

Distribution Systems

Trusted to provide innovative, fully engineered solutions that help optimize piping system performance, reduce costs and eliminate downtime, TDW delivers the customized products, services and technical expertise that gas distribution operators rely on for a full range of systems including steel, polyethylene, non-metallic and cast iron.

Design & Engineering

Consulting Services

Plugging Isolation Services

Maintenance & Repair Services

Turnkey Project Management

PE Hot Tapping & Plugging

SHORTSTOPP® II Plugging Equipment

SHORTSTOPP® 275/500 Plugging Equipment

Valves, Fittings and Accessories



Contents

Notice

Product Warranty

Terms and Conditions

■ Drilling and Tapping Machines

TDW Speed Tapper	1 1/4" through 3"	1000.010
TD Drilling Machines	1/2" through 2"	2000.002
T-101 Drilling Machine	1/2" through 6"	2000.001
T-203 Tapping Machine	4" through 12"	1000.003
360 Tapping Machine	2" through 6"	1000.004
660 Tapping Machine	3" through 16"	1000.005
760 Tapping Machine	3" through 16"	1000.006
860 Tapping Machine	3" through 20"	1000.008
Air Motors		1010.002
Fall Protection Equipment	For TDW Tapping & Plugging Equipment	1010.003

■ SHORTSTOPP® Plugging Equipment

SHORTSTOPP® II	1 1/4" through 12"	2080.001
SHORTSTOPP® II Data Sheets	(pressures up to 150 psi)	
SHORTSTOPP® II Data Sheets for Sight Glass Assembly	(pressures up to 500 psi)	
SHORTSTOPP® 275/500	1 1/2" through 12"	2020.002
SHORTSTOPP® 275 Data Sheets	(pressures up to 275 psi)	
SHORTSTOPP® 500 Data Sheets	(pressures up to 500 psi)	
SHORTSTOPP® 60	1 1/4" through 12"	2020.001
SHORTSTOPP® 60 Data Sheets	(pressures up to 60 psi)	



■ SHORTSTOPP® PE Equipment

SHORTSTOPP® PE System	4" and Larger	2080.002
PS2000 Tapping Machine	2" through 8"	2085.001
SHORTSTOPP® PE Completion Machine		2085.002
SHORTSTOPP® PE Fittings	4" through 8"	2120.001
SHORTSTOPP® PE Fittings	8" through 12"	2120.002
SHORTSTOPP® PE Branch Saddle-Valve	4" through 8"	2085.003
SHORTSTOPP® PE System Data Sheets	4" through 8"	

■ Valves

Distribution Valves	2" through 12"	2010.001
SANDWICH® Valves	4" and larger	1020.001

■ Fittings

SHORTSTOPP® Fittings Applications		SS Fittings
SHORTSTOPP® Welding Fittings	1 1/4" through 12"	2100.003
SHORTSTOPP® 300D Split Tees	4" through 12"	2100.004
3-WAY™ Tees	1 1/4" through 12"	2100.002
Flat-Bottomed Tees	1 1/4" through 12"	2100.005
300D Full-Encirclement 3-WAY™ Tees	2" through 12"	2100.006
Spherical 3-WAY™ Tee	2" through 12"	2100.007
300D Spherical 3-WAY™ Tee	2" through 12"	2100.008
SHORTSTOPP® 740 Fitting	2"	2100.009
SHORTSTOPP® Bolt-On Fittings	2" through 12"	2100.010
SHORTSTOPP® Bolt-On 3-WAY™ Tee	2" through 12"	2100.011
SHORTSTOPP® 3-WAY™ Tee and SHORTPLUG™ with Guide Bars	4" through 12"	2100.012
SHORTSTOPP® Welding Fittings and SHORTPLUG™ with Guide Bars	4" through 12"	2100.013
Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars	4" through 12"	2100.014



■ Fittings - Continued

SHORTSTOPP® 300D Split Tee and SHORTPLUG™ with Guide Bars	4" through 12"	2100.015
ProSeries STOPPLE/PLUS Fittings 600 Class	4" through 36"	2100.023
300D Full Encirclement 3-WAY™ Tee and SHORTPLUG™ with Guide Bars	4" through 12"	2100.016
300D Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars	4" through 12"	2100.017
SHORTPLUG™ with Guide Bars for SHORTSTOPP® Fittings	4" through 12"	2100.018
M-STOPP™ Fittings	3" through 12"	2130.001
Mechanical SHORTSLEEVE™ Fitting	2"	2110.002
Mechanical SHORTSLEEVE™ Fitting	4" through 12"	2110.001

■ Rehabilitation Products

RES-Q® Composite Wrap	2" through 60"	5300.003
Steel Repair Sleeves	2" through 48"	7300.002

■ TDW Services

Hot Tapping Service Application Data Form	tp 11/01
Hot Tapping & Plugging Service Application Data Form	tp-pg 11/01
Planning: HT&P Field Requirements/Clearances	ff 1/00



T.D. Williamson

TDW Speed Tapper

Sizes: 1-1/4 - through 3-inches



T.D. Williamson, Inc.

Bulletin No: 1000.010.00
 Date: August 2002
 Cross Indexing No: n/a
 Supercedes: n/a



■ TDW Speed Tapper
 1-1/4- through 3-inches

Description

Tapping machines are used to make connections to pipelines without shutdown and to make hot tap in preparation for plugging machine applications.

The Speed Tapper is a manual machine which is designed to safely tap into piping systems while under pressure. It is used for making 1-1/4- through 3-inch taps without shutdown. Also, it can install completion plugs in the same sizes to permit recovery of tapping valves.

Features

The Speed Tapper comes with 12-1/2-inches of travel and is designed to tap PVC piping material. The Speed Tapper also is designed to accommodate a maximum working pressure of 60 psi (4 bar) at 100°F (38°C).

A boring bar depth guide allows an operator to preset the desired tapping distance as a visual indicator after measurements are established. Other features include:

- Compact 26-5/8-inch overall length.
- Lightweight design at 6 lbs.
- Versatile 1-1/4- through 3-inch taps.
- Standard TDW hole saws fit the Speed Tapper holder.

Options

T.D. Williamson, Inc. is committed to providing you with product to assist you in planning, budgeting and safely meeting your individual application needs.

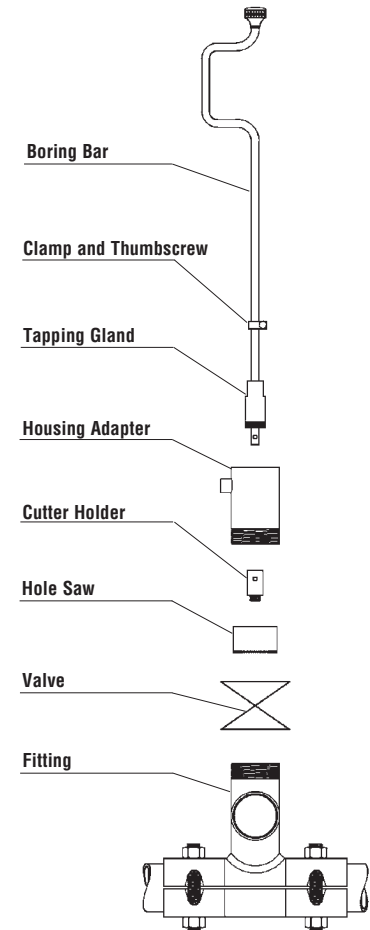
Various fittings, housing adapters and hole saws are available in sizes ranging from 1-1/4- through 3-inches.

SHORTSTOPP® II 1-1/4-, 2-, 3-inch size-on-size and 3x4-inch folding plugging equipment can be used in conjunction with the Speed Tapper for PVC piping system isolation.



■ Hole Saws (various sizes)

Typical Setup



ISO 9001 Certified

Toll Free
1-888-TDWmSon (839-6766)



TDW Speed Tapper (Requires Cutter Kit)

Item	Part Number
Speed Tapper	05-0252-0000
Includes:	
Boring Bar -- 2-inch SHORTSTOPP®	08-1654-0003-00
Tapping Gland	05-0252-0002
O-Ring	00-0116-0001
Shoulder Screw (10-24NC)	00-0204-0400-06
Esna Nut (10-24NC)	00-0003-0011
Cutter, Holder	05-0253-0001
Hex Key, 1/8-inch	00-0175-0003
Tape, Valve Bore	00-1279-0002
Clamp (3/4 x 1/2 x 1-1/4 Brass)	05-0252-0011
Thumb Screw, 1/4-20NCx3/4 LG	00-1735-0400-06
Decal, Caution	00-3302-0002
Holder, Plug	08-0367-0001

Tapping Machine Specifications

Boring Bar Travel	12.5 inches
Overall Length	26.688 inches
Feed Mechanism	Manual
2-inch Machine Weight	6.0 lbs
3-inch Machine Weight	8.0 lbs

Hole Saws/Cutters

Nominal Tap Size	Actual Cutter Diameter	Actual		Hole Saw/Cutter Part No.	Cutter Holder Part No.
		Inch	mm		
1-1/4	32	1-5/16	33.3	00-1151-0005	05-0253-0001
1-1/2	38	1-9/16	39.7	00-1151-0009	05-0253-0001
2	50	1-7/8	47.6	05-0179-0002	05-0253-0001
3	80	2-7/8	73.0	05-0179-0003	05-0253-0001

Optional Kits

	Part Number
2-inch Adapter Kit	05-0252-0000-02
Includes:	
2-inch Threaded Valve Adapter	06-1002-0000
2-inch Hole Saw	05-0179-0002
3-inch Adapter Kit	05-0252-0000-03
Includes:	
3-inch Threaded Valve Adapter	06-1029-0000
3-inch Hole Saw	05-0179-0003

Operating Specifications

Maximum Operating Pressure	60 psi (4 bar)
Maximum Operating Temperature	100°F (38°C)

Completion Plug Holder

Size (Inches)	Weight (lbs)	Part Number
1-1/4	1	08-0367-0001
1-1/2	1	08-0367-0001
2	1	08-0367-0001
2-1/2	1	08-0367-0001
3	1	08-0367-0001

Valve Dimensions for Making Taps

Nominal		Minimum Bore	
Inches	DN	Inches	mm
2	50	2-1/16	52.4
3	80	3-1/16	77.8

TD Drilling Machines

Pipe Sizes : 1/2- through 2-inch



T.D. Williamson, Inc.

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Supersedes: May 2004



TD Drilling Machines
6- to 14-inches of travel

Description

Drilling machines are used to make connections to pipelines, tanks and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

The TD-XX or TD-1XX Drilling Machine is a manual or power-driven machine which taps into pipe while under pressure. It is used for making taps on 1/2- through 2-inch (DN 13 - DN 50) pipe without shutdown. It can be used to install 3/4- through 2-inch completion plugs in tapping nipples to permit recovery of tapping valves and to install TDW PIG-SIG[®] Scraper Passage Indicators.



Hole Saw (various sizes)

Features

The model TD-XX or TD-1XX Drilling Machine is available in several versions: models have total travel lengths ranging from 6- to 14-inches (depending on the version).

The TD Drilling Machine is very compact, from 18.6- to 35.3-inches in total length (depending on version). O-ring seals take the place of adjustable packing. O-Ring Top seal keeps water and dust away from the thrust bearing.

The TD Drilling Machine meets NACE Standard MR0175-93, sulfide stress cracking resistant metallic material for oilfield equipment. Its maximum working pressure is 740 psig (50bar). Its operating temperature is -20°F (-29°C) to 180°F (82°C).

Other features include: Lightweight 14 pounds for the TD-12 (other models range from 9 to 17 lbs depending on length). Versatile 1/16- through 2-inch taps. This machine is compatible with TD Williamson's T-101 Drilling Machine. It allows for easy completion plug installation, since the feed mechanism matches our SHORTSTOPP[®] threaded completion plug at 12 threads per inch. Black liquid nitride corrosion resistant finish is the latest in protective coatings.

Options

T.D. Williamson, Inc., is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

Optional O-Rings can be provided to accommodate different service applications.

The TD Drilling Machines are furnished with a ratchet crank for manual operation. An optional hand-held air motor can also be used.

Adapter piece can be either 1-inch NPT male or a 2-inch NPT female that offers compatibility to the T-101.

Note: Boring bar length also varies with adapter type. Drill is recessed with 1-inch NPT male adapter (Model TD-XX), resulting in no separate adapter required when used with a 1-inch NPT valve.



1-inch Threaded Adapter

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



Drilling Machine



■ The cap locks the feed and rotation of machine to set and retrieve completion plugs. (12 tpi)

Item	Lb.	Kg.	Part Number
TD-XX (1-inch NPT male end)			05-1088-0000-SUFF
TD-1XX (2-inch NPT female end)			05-1088-1000-SUFF
Includes:			
Ratchet Crank			00-1443-0001
Cap			05-1088-0006
Purge Valve			00-6390-0001
Optional Equipment:			
Air Motor Pistol Grip	6	3	00-1508-0001
Air Motor Angle Grip	8	4	05-2160-0000
Drive Socket			00-1509-0002
Steel Carrying Case (Std.)	15	7	05-1088-0500-xx
Plug Holder for 2-inch THREAD-O-RING™ Plug			08-2120-0000
Plug Holder for 2- and 3-inch SHORTSTOPP® Completion Plug			05-0185-0001

Operating Specifications

Maximum Operating Pressure/Temperatures

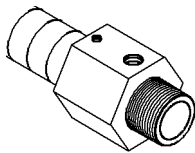
740 psi (50 bar) @ -20°F - 180°F (-29°C - 82°C)

* Note: For higher temperature rating, consult factory.

Drilling Machine Specifications

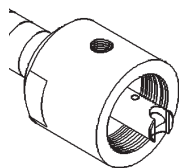
Item	inches	mm
Boring Bar Extension/Revolution	0.083	2.1
Feed Mechanism	Hand-Fed Machine	

TD Drilling Machines - 1-inch Male End (NPT)



Model	Travel (inches)	Lbs.	Overall Length	Part Number
TD-06	6	9	18.6	05-1088-0000-06
TD-08	8	10	22.6	05-1088-0000-08
TD-10	10	11	26.6	05-1088-0000-10
TD-12	12	14	30.6	05-1088-0000-12
TD-14	14	15	34.6	05-1088-0000-14

TD Drilling Machines - 2-inch Female End (NPT)



Model	Travel (inches)	Lbs	Overall Length	Part Number
TD-106	6	11	19.3	05-1088-1000-06
TD-108	8	12	23.3	05-1088-1000-08
TD-110	10	14	27.3	05-1088-1000-10
TD-112	12	16	31.3	05-1088-1000-12
TD-114	14	17	35.3	05-1088-1000-14



Drills for TD-XX	Drill Diameter		Drill Length		Part Number
	Inches	DN	Inches	mm	
	1/2	12.7	6	150	05-1096-0005
	9/16	14.3	6	150	05-1096-0006
	5/8	15.9	6	150	05-1096-0007
	11/16	17.5	6	150	05-1096-0008
	3/4	19.1	6	150	05-1096-0009
	13/16	20.6	6	150	05-1096-0010
	7/8	22.2	6	150	05-1096-0011

* Drill Holder for 1/16- to 5/32-inch drills 05-1099-XXXX

* Drill not included

Drills for TD-1XX	Drill Diameter		Drill Length		Valve Size		Part Number
	Inches	DN	Inches	mm	Inches	mm	
	1/2	12.7	6	150	1-1/4 - 2	32-50	05-0203-0005
	1/2	12.7	22-1/4	565	1	25	05-0189-0001
	3/4	19.0	6	150	1-1/4 - 2	32-50	05-0203-0009
	3/4	19.0	22-1/4	565	1	25	05-0189-0002
	1	25.0	6	150	1-1/4 - 2	32-50	05-0203-0012
	1-1/4	32.0	6	150	1-1/2 - 2	40-50	05-0203-0013
	1-7/16	36.5	7-3/8	187	1-1/2 - 2	40-50	05-0193-0001

Hole Saws/Cutters and Holder Pilots for TD-1XX	Nominal Tap Size		Actual Cutter Diameter		Size-on-Size		Not Size-on-Size
	Inch	DN	Inch	mm	Hole Saw/Cutter Part No.	Holder Pilot Part No.	Holder Pilot Part No.
	1	25	1-1/16	26.1	00-1151-0033	05-1095-0000	05-1095-0000
1-1/4	32	1-5/16	33.3	00-1151-0005	05-1130-0000	05-1130-0000	
1-1/2	38	1-9/16	39.7	00-1151-0009	05-0275-0000	05-0290-0000	
2	50	1-7/8	47.6	05-0179-0002	05-0204-0000	05-0207-0000	

Threaded Valve Adapters for TD-1XX (Not required for TD-XX model)	Nominal Adapter Diameter		Part Number	Maximum Pressure (Limited by Drilling Machine)	
	Inches	DN		psi	Bar
	1	25	06-1223-0001	740	50
	1-1/4	32	00-0757-0012	740	50
	1-1/2	38	00-0757-0011	740	50
	2	50	00-0706-0015	740	50
	3	80	06-1303-0001-02	740	50

Valve Dimensions for Making Taps	Nominal Size		Minimum Bore	
	Inches	DN	Inches	mm
	1	25	15/16	24
	2	50	2-1/16	52.4

T-101 Drilling Machine

Sizes: 1/2- to 4-inches



T.D. Williamson

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Version: 11.2014

Cross Indexing No: n/a

Supersedes: 2000.001.08 (01.2010)



■ T-101 Drilling Machine
Model T-101B

Description

Drilling machines are used to make connections to pipelines, tanks and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

The T-101 Drilling Machine is a manual or power-driven machine which taps into pipe while under pressure. It is used for making 1/2" through 4" (DN 15 - DN 100) taps without shutdown. It can be used to install 2" and 3" completion plugs in tapping nipples to permit recovery of tapping valves and to install TDW PIG-SIG® Scraper Passage Indicators.

Features

The Model T-101B Drilling Machine is available in two versions: the standard T-101B with 18" of travel and the XL Model with 28" of travel.

The T-101B and T-101B XL Drilling Machines meet NACE Standard MR0175-93, sulfide stress cracking resistant metallic material for oilfield equipment. The maximum working pressure is 1,480 psi (100 bar) at 100°F (38°C). Its operating temperatures are -20°F (-29°C) to 700°F (371°C) at 700 psi (48 bar) for intermittent service. The maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

The 904 Drilling Machine is a higher pressure (balanced) version of the T101B XL machine. It is rated at 2,220 psi (150 bar) at 180°F (82°C). For special requirements, such as higher pressure or temperature, consult the factory.

Other features include:

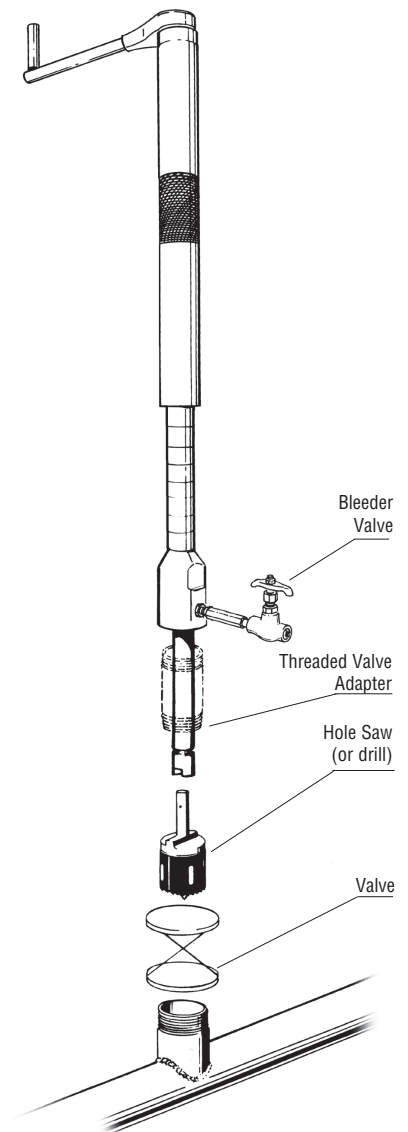
- Lightweight 32 pounds (XL is 50 pounds)
- Versatile 1/2" through 4" taps
- Operates to 1,480 psi (2,220 psi for 904 Model)

Options

T.D. Williamson, Inc., is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

- The T-101 Drilling Machine is furnished with a ratchet crank for manual operation. An optional hose-connected, hand-held air motor can be easily added.

Typical Setup



ISO 9001 Certified



T-101 Drilling Machine *Models T-101B and T-101B-XL*

Drilling Machine



- The cap locks the feed and rotation of machine to set and retrieve completion plugs.

Item	Wt./ Lb.	Wt./Kg.	Part Number
T-101B Drilling Machine	32	15	05-1028-0000
T-101B-XL Drilling Machine	50	22	05-1029-0000
Includes: Crank Handle			00-1188-0004
Cap			05-1028-0046
Bleeder Valve			00-0774-0001
Nipple			00-0220-0001
Packing Wrench			05-0184-0020
Optional Equipment:			
Air Motor (Pistol Grip)	6	3	00-1508-0001
Air Motor (Right Angle)	8	4	05-2160-0000
Drive Socket			00-1509-0004
Steel Carrying Case (Std.)	15	7	05-2100-0000
Steel Carrying Case (XL)	20	9	05-2101-0000
Plug Holder for 2" THREAD-O-RING™ Plug			05-0185-0001
Plug Holder for 2" and 3" SHORTSTOPP® Completion Plug			08-2120-0000

Operating Specifications

Maximum Operating Pressure	1,480 psi (100 bar) @ 100°F (38°C)
Maximum Operating Temperature	700°F (371°C) @ 700 psi (48 bar)*

* For intermittent service only. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

Drilling Machine Specifications

Item	Standard Model		XL Model	
	Inches	mm	Inches	mm
Boring Bar Travel	18	457	28	711
Overall Length	46-5/16	1176	66-5/16	1684
Boring Bar Extension/Revolution	0.125	3.2	0.125	3.2
Feed Mechanism	Hand-Fed Machine		Hand-Fed Machine	

Accessories for PIG-SIG® IV and V Installation

Item	Part Number
Drill for wall thickness more than 3/8" (9.5mm)	05-0193-0001
Valve Adapter for Cutter or Drill - for use on 2" (50 mm) threaded valve	00-0706-0016
2" (50 mm) THREAD-O-RING™ Plug Holder for use with PIG-SIG® IV	05-0185-0001
PIG-SIG® V Plug Holder	00-8138-0000

2" (50 mm) ASME Class 600 conventional valve with 2-1/16" (53mm) through-bore is recommended for use in making taps for PIG-SIG® Scraper Passage Indicator installation.



T-101 Drilling Machine Models T-101B and T-101B-XL

Drills	Drill Diameter		Drill Length		Valve Size		Part Number
	Inches	DN	Inches	mm	Inches	mm	
	1/2	12.7	6	150	1-1/4 - 2	32-50	05-0203-0005
	1/2	12.7	22-1/4	565	1	25	05-0189-0001
	3/4	19.0	6	150	1-1/4 - 2	32-50	05-0203-0009
	3/4	19.0	22-1/4	565	1	25	05-0189-0002
	1	25.0	6	150	1-1/4 - 2	32-50	05-0203-0012
	1-1/4	32.0	6	150	1-1/2 - 2	40-50	05-0203-0013
	1-7/16	36.5	7-3/8	187	1-1/2 - 2	40-50	05-0193-0001

Hole Saws/Cutters and Holder Pilots	Tap Size		Cutter Diameter		Size-on-Size	Holder Pilot	Not Size-on-Size
	Inch	DN	Inch	mm	Hole Saw/Cutter Part No.	Holder Pilot Part No.	Holder Pilot Part No.
	1-1/4	32	1-5/16	33.3	00-1151-0005	05-0634-0000	05-0290-0000*
	1-1/2	38	1-9/16	39.7	00-1151-0009	05-0275-0000	05-0290-0000
	2	50	1-7/8	47.6	05-0179-0002	05-0204-0000	05-0207-0000
	3	80	2-7/8	73.0	05-0179-0003	05-0204-0000	05-0207-0000
	4	100	3-7/8	98.4	05-0179-0004	05-0205-0000	05-0228-0000

*Use 05-0634-0000 Pilot for 1-1/4" Hot tap on 1-1/2" (38 mm) Pipe only.

Threaded Valve Adapters	Inches	DN	Part Number	Maximum Pressure	
				psi	Bar
	1	25	06-1223-0001	1480	100
	1-1/4	32	00-0757-0012	1480	100
	1-1/2	38	00-0757-0011	1480	100
	2	50	00-0706-0015	1480	100
	3	80	06-1303-0001-02	1480	100

Flanged Valve Adapters - ASME Class	Inches	DN	Class 150 RF	Class 300 RF	Class 600 RF
	3	80	06-1318-0015	06-1318-0030	06-1318-0060
	4	100	06-1302-0015	06-1302-0030	06-1302-0060*
	6" SANDWICH®	150	06-8872-0001	06-8872-0002	06-8872-0003
	6" Gate Valve	150	06-8684-0001	06-8685-0001	06-8872-0004

*For 4-inch taps with the T-101 this adapter must be used with TDW 4-inch SANDWICH® Valve to ensure sufficient boring bar travel to complete the tap.

Valve Dimensions for Making Taps	Nominal Size		Minimum Bore	
	Inches	DN	Inches	mm
	2	50	2-1/16	52.4
	3	80	3-1/16	72.8
	4	100	4-1/32	102.4

T-203 Tapping Machine

Sizes: 4- to 12-inch

Model T-203



Bulletin No: **1000.003.01**
Date: 12.2017
Cross Indexing No: n/a
Supersedes: 1000.003.00(6.1998)



Description

Tapping machines are used to make connections to pipelines, tanks and plant piping and are used to make hot taps in preparation for plugging machine applications.

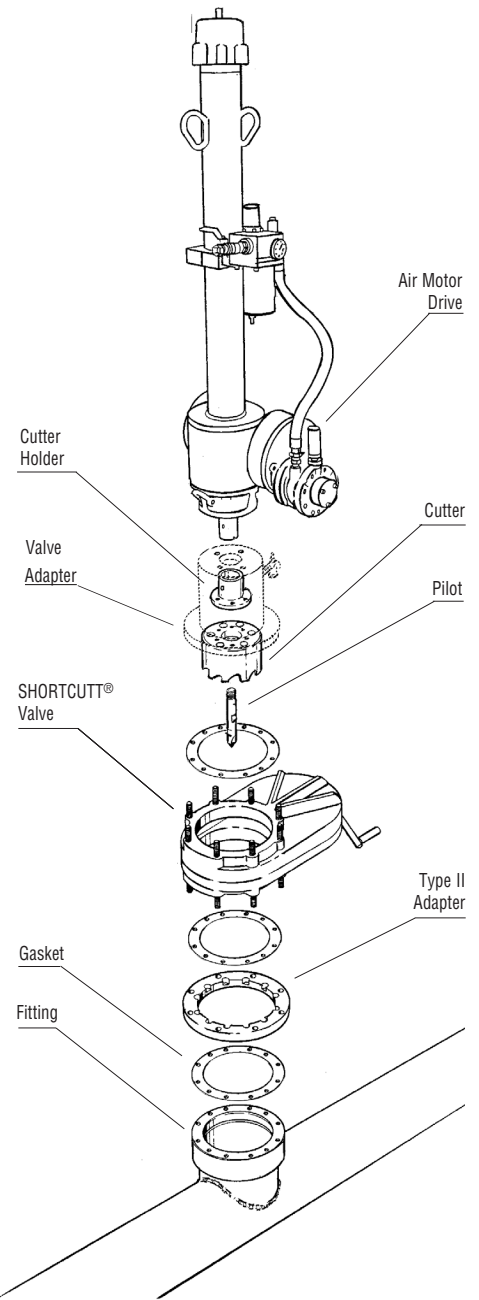
The T-203 Tapping Machine is used for making 4" through 12" (DN 100 through DN 300) taps without shutdown in pipelines, primarily for the installation of TDW SHORTSTOPP® Plugging Machines.

Features

The T-203 Tapping Machine has an adjustable automatic feed rate of 0 to 1/8" per revolution for any cutting condition.

The T-203 Tapping Machine operates at a maximum of 740 psi (50 bar) @ 100°F (38°C). Its operating temperature is -20° F (-29° C) to 180°F (82°C) @ 675 psi (46 bar). It weighs 241 pounds (109 kg.), including the air motor drive, which is standard equipment. Lightweight with a low center of gravity, it is designed to be easy to handle and to operate.

The T-203 Tapping Machine also features a four-bolt attachment to the valve adapter. This provides a simple, rigid makeup with proper cutter alignment.





Dimensions and Part

T-203 Tapping Machine

Basic Machine	Wt./Lb.	Wt./Kg.	Part Number
with air drive assembly and carrying case	366	166	05-2173-0000
with hydraulic drive assembly and carrying case	400	181	05-2174-0000

Specifications

Boring Bar Travel		Overall Length		Rate of Travel per revolution		Feed Mechanism
Inch	mm	Inch	mm	Inch	mm	
36	914	58	1473	0-1/8	0-3	adjustable, automatic

Operating Specifications

Maximum Operating Pressure	740 psi (50 bar) @100°F (38°C)
Maximum Operating Temperature	180°F (82°C) @ 675 psi (46 bar)

Adapters

		Max. Working Pressure				Max. Working Pressure			
		Class 150		Class 300		Class 150		Class 300	
Inch	mm	psi	Wt./Lb.	Wt./Kg.	Part Number	psi	Wt./Lb.	Wt./Kg.	Part Number
4	100	285	29	13	06-1542-0000	740	38	17.2	06-7370-0000
6	150	285	39	18	06-1543-0000	740	65	29.5	06-7371-0000
8	200	285	60	27	06-1544-0000	740	95	43.1	06-7372-0000
10	250	285	87	39	06-1545-0000	740	140	63.5	06-7373-0000
12	300	285	130	59	06-1546-0000	740	205	93	06-7374-0000

Cutters & Pilot Drills

Nominal Size		Actual Size		SHORTSTOPP® Cutters			SHORTSTOPP® Pilot Drills			
Inches	mm	Inches	mm	Weight		Part Number	Weight		Part Number	Spare U-Rods
				Lb.	Kg.		Lb.	Kg.		
4	100	3-7/8	98	3	1	05-0255-0004	8	230	05-0247-0003	00-1424-0005
6	150	5-7/8	149	8-3/4	4	05-0330-0006	2	8	05-0293-0002	00-1424-0003
8	200	7-3/4	197	20	9	05-0330-0008	12	340	05-0293-0003	00-1424-0003
10	250	9-3/4	248	23	10	05-0330-0010	16	450	05-0293-0004	00-1424-0003
12	300	11-3/4	299	40	18	05-0330-0012	16	450	05-0293-0005	00-1424-0003

Cutter Holders, Bleeder Valve & Nipple

	Inch	mm	Wt./Lb.	Wt./Kg.	Part Number
Cutter Drive Key	4	80	0.5	0.25	05-0227-0000
Cutter Holder	6-12	150-300	9	4	05-0326-0000
Bleeder Valve	--	--	--	--	00-0774-0001
Nipple	--	--	--	--	00-0220-0001
Spare U-Rods	4	--	--	--	00-1424-0005
Spare U-Rods	6-12	--	--	--	00-1424-0003

360 Tapping Machine

Sizes: 2-to 6-inch

Model 360B



T.D. Williamson

Bulletin No: 1000.004.08

Version: 06.2018

Cross Indexing No: n/a

Supersedes: 1000.004.07 (12.2017)



Description

Tapping machines are used for making connections to pipelines, tanks, and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

Model 360 Tapping Machines can be either manual or hydraulically operated and are used for making tank and pipe taps from 2 in. to 6 in. Its maximum working pressure is 1,480 psi (100 bar) at 100°F (38°C). Its operating temperature is -20°F (-29°C) to 700°F (371°C) at 700 psi (48 bar) for intermittent service. Its maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

Features

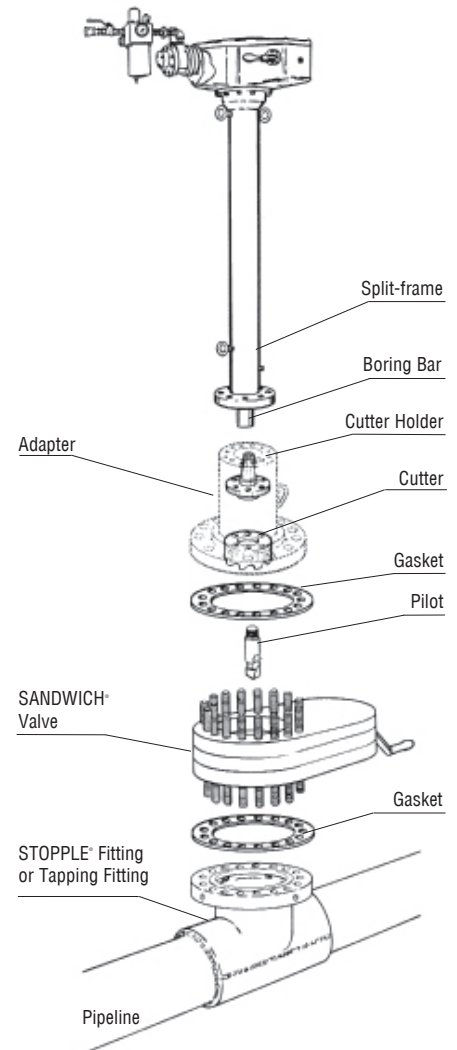
The basic machine includes:

- Lower-in crank
- Measuring rod
- Retainer rod pusher
- Ring gasket
- Bleeder valve and nipple
- Motor adapter
- Set of bolts and nuts
- LOCK-O-RING® bypass gauge
- Capability to set LOCK-O-RING® and LOCK-O-RING® Plus completion plugs

Options

T.D. Williamson is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

- The Model 360B Tapping Machine is air or hydraulic operated.



* For design code options not listed and additional sizes, consult your sales representative.



360 Tapping Machine

Operating Specifications

Boring Bar Travel	24" (610 mm)
Tank Taps*	2" to 4" (100 DN)
Pipe Taps*	2" to 6" (150 DN)
THREAD-O-RING™ Plug Setting	2" (50 DN) and 3" (80 DN)
LOCK-O-RING® and LOCK-O-RING Plus Plug Setting	4" (100 DN) and 6" (150 DN)
Maximum Operating Pressure	1,480 psi (100 bar) at 100°F (38°C)
Maximum Operating Temperature	700°F (371°C) at 700 psi (48 bar)**
Power	Manual, Air Motor or Hydraulic
Feed Rate	0.005" (0.127 mm) per revolution
"Lower-In" Crank	12 turns per inch (2 mm per turn)
Length (without measuring rod)	42-3/4" (1,086 mm)
Length (with measuring rod)	70" (1,778 mm)
Meets NACE specification	MR0175-93

* See note 4 in "Recommended Options" Chart. ** For intermittent service only. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

Assembly Options

Tapping Machines	Model	Type of Drive		Container		Weight
		Air Motor Drive	Hydraulic Motor Drive	Skid *	Steel Carrying Case	
Assembly Number	360b					LB (KG)
12346995	•	•				200 (91)
12346996	•	•			•	300 (136)
12346997	•	•		•		260 (118)
12346998	•		•			205 (93)
12346999	•		•		•	305 (138)
12347000	•		•	•		265 (120)

All basic Tapping Machines include: measuring rod and stop collar, bleeder valve, packing wrenches, "lower-in" crank, and power crank.

* If skid is not purchased with tapping machine, there is special crating charge. Consult factory.

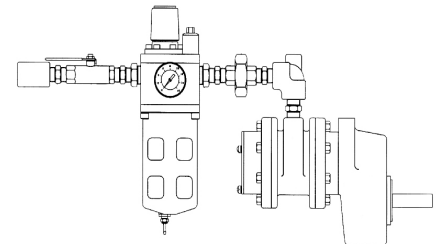
** Manual Drive Tapping Machine is not compatible with an air or hydraulic drive.

360 Tapping Machine

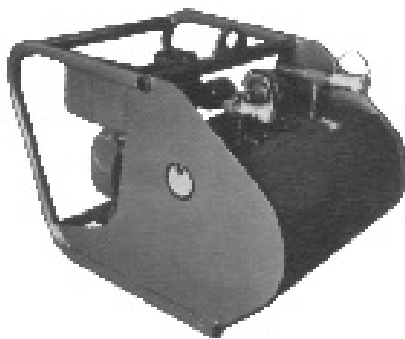
Hydraulic Power Unit and 50 ft. Hose w/Oil	Lb.	Kg.	Part Number
Manual Start/Diesel	585	266	05-2017-0000
Electric Start/Diesel	600	272	12303420
Manual Start/Gas	533	242	05-2351-0000
Electric Start/Gas	550	250	05-2354-0000

* If skid is not purchased with the tapping machine, there will be a special crating charge; consult factory

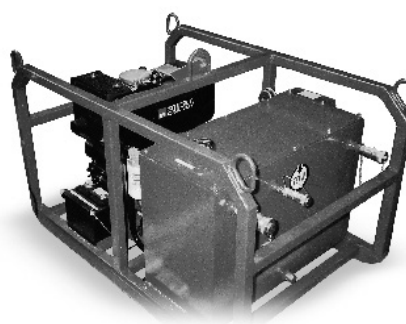
■ **Vitalizer for Air Motor**
Minimum compressor requirement:
105 cfm at 90 psi (6 bar).
Compressor and connecting
hose not included.



■ Gasoline Power Unit



■ Diesel Power Unit



Adapters

Nominal Tap Size	ASME Class 150 RF Flange			ASME Class 300 RF Flange			ASME Class 600 RF Flange			600# SANDWICH® & Ball Valves			
	Inches	DN	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.
1	25	06-0027-0001	18	8	06-0028-0001	17	8	06-0030-0001	20	9	--	--	--
1-1/4	32	06-0027-0002	19	9	06-0028-0002	20	9	06-0030-0002	22	10	--	--	--
1-1/2	40	06-0027-0003	19	9	06-0028-0003	22	10	06-0030-0003	23	10	--	--	--
2	50	06-0027-0004	16	7	06-0028-0004	18	8	06-0030-0004	20	9	--	--	--
3	80	06-0027-0005	21	10	06-0028-0005	24	11	06-0030-0005	27	12	--	--	--
4	100	06-6098-0004*	32	15	06-6099-0004	42	19	06-6101-0004**	35	16	06-6097-0004-01***	53	24
6	150	06-6098-0006*	45	20	06-6099-0006	62	28	06-6101-0006**	100	45	06-6097-0006-01***	110	50

* Will also work on SHORTCUTT® Valves

** See special adapters for SANDWICH® & Ball valves.

*** Compatible with LOCK-O-RING® and LOCK-O-RING® Plus Plugs

Cutter Holders & Plug Holders

Size		Cutter Holder			Plug Holders		
Inches	DN	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
2	50	--	--	--	1/2	0.2	05-0061-0001
3	80	2	9	05-0053-0003	1-1/4	0.6	05-0073-0001
4	100	2	9	05-0053-0003	--	--	--
6	150	6-1/2	3	05-0053-0002*	--	--	--

* Cutter holder extension (P/N 05-0071-0000) required for 6 in. (150 DN) ASME Class 600 taps



360 Tapping Machine

LOCK-O-RING® Plug & LOCK-O-RING® Plus Holders

Size		LOCK-O-RING® Holders			LOCK-O-RING® Plus Holders			LOCK-O-RING® Bypass Gauge		
Inches	DN	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
2	50	--	--	--	--	--	--	1/2	0.2	07-1723-0000
4	100	5	2	05-2648-0000	5	2	12309297	--	--	
6	150	5	2	05-0074-0000	5	2	12309297			
4-#900	100	--	--	--	5	2	12309298	--	--	
6-#900	150	--	--	--	5	2	12309298	--	--	

Twist Drills

Nominal Tap Size		Actual Size		Weight		Part Number
Inches	DN	Inches	mm	Lb.	Kg.	
2	50	1-7/16	37	6	3	05-0046-0004

Insert Drills

Nominal Tap Size		Actual Size		Weight		Part Number
Inches	DN	Inches	mm	Lb.	Kg.	
1	25	3/4	19	2-1/2	1	05-0047-0001
1-1/4	32	1	25	4	2	05-0047-0002
1-1/2	40	1-1/4	32	5-1/2	3	05-0047-0003

Standard Cutters & Pilot Drills

Nominal Tap Size		Actual Size		Cutters			Pilot Drills			Spare U-Rods
Inches	DN	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
3	80	2-7/16	61.9	1	0.4	05-0001-0001	1/22	0.2	05-0293-0001	00-1424-0012
4	100	3-7/16	87.3	2	0.9	05-0328-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/32	138.9	5-3/4	3	05-0328-0006	2	0.9	05-0293-0002	00-1424-0003

SHORTSTOPP® Cutters & Pilot Drills

Nominal Tap Size		Actual Size		Cutters			Pilot Drills			Spare U-Rods
Inches	DN	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-7/8	98.4	3-1/4	1	05-0330-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-7/8	149.2	8-3/4	3	05-0330-0006	2	0.9	05-0293-0002	00-1424-0003

STOPPLE® Cutters & Pilot Drills

Nominal Tap Size		Actual Size		Cutters			Pilot Drills			Spare U-Rods
Inches	DN	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-15/16	100	3-1/2	2	05-0329-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/16	150.8	9	4	05-0329-0006	2	0.9	05-0293-0002	00-1424-0003



360 Tapping Machine

Tapping Size-On-Size (Recommended Options)

Cutter Size			
2"	3"	4"	6"
A	A	A	A
B	B	B	B
C	C	C	
D	D	D	
E	E	E	E
F	F	F	

Notes:

- The following letters represent:
 A = Carbon steel pipe SMYS (Specified Minimum Yield Strength) 30,000 to 50,000 psi maximum, tensile strength of 70,000 psi.
 B = Carbon steel pipe SMYS 50,000 to 70,000 psi maximum, tensile strength of 90,000 psi.
 C = Cast iron pipe. Cutting characteristics vary widely; hard to predict.
 D = Chrome-moly, high temperature, steel pipe.
 E = 300 series stainless steel pipe.
 F = Flat-plate cuts using special cutters on the materials listed above (refer to Notes 3 and 4). Pilot drill must be through before cutter tooth engages material.
- The table for selecting power options (above) is based on the latest TDW designs and past experience. The data should be used as a guideline. There have been, and will be, conditions which will not strictly follow the guidelines.
- Special cutters are available for flat plates, stainless steel pipe, cast iron pipe and other special conditions.
- When tapping a larger pipe or tank, the cutter will sometimes go through the flat-plate condition. For example, all teeth are cutting at the same time. This is the most power-consuming condition possible and special cutters may be required. Considering cutter size, diameter of cylinder, wall thickness, feed rates, different materials of construction, etc., there are many possibilities. The following table gives some examples of flat-plate conditions. Any pipe or tank with wall thicknesses greater than those shown will also be considered flat-plate.

Cutter Size	Nom. Pipe x Wall	Nom. Pipe x Wall	Nom. Pipe x Wall
3"	4" x .359"	6" x .232"	8" x .176"
4"	6" x .481"	8" x .357"	10" x .282"
6"	10" x .748"	12" x .616"	14" x .556"

360 Tapping Machine



660 Tapping Machine

Sizes: 3- to 16-inch

Model 660C



T.D. Williamson

Bulletin No: 1000.005.07

Version: 12.2017

Cross Indexing No: n/a

Supersedes: 1000.005.06 (07.2015)



Model 660C Tapping Machines can be either air or hydraulically operated and are used for making pipe and tank taps from 3" to 16" (DN 80 to DN 400). Its maximum working pressure is 1,480 psi (102 bar) at 100°F (38°C). Its operating temperature is -20°F (-29°C) to 700°F (371°C) at 700 psi (48 bar) for intermittent service. Its maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar). This model features a split-frame for lower maintenance costs and ease of packing replacement.

Features

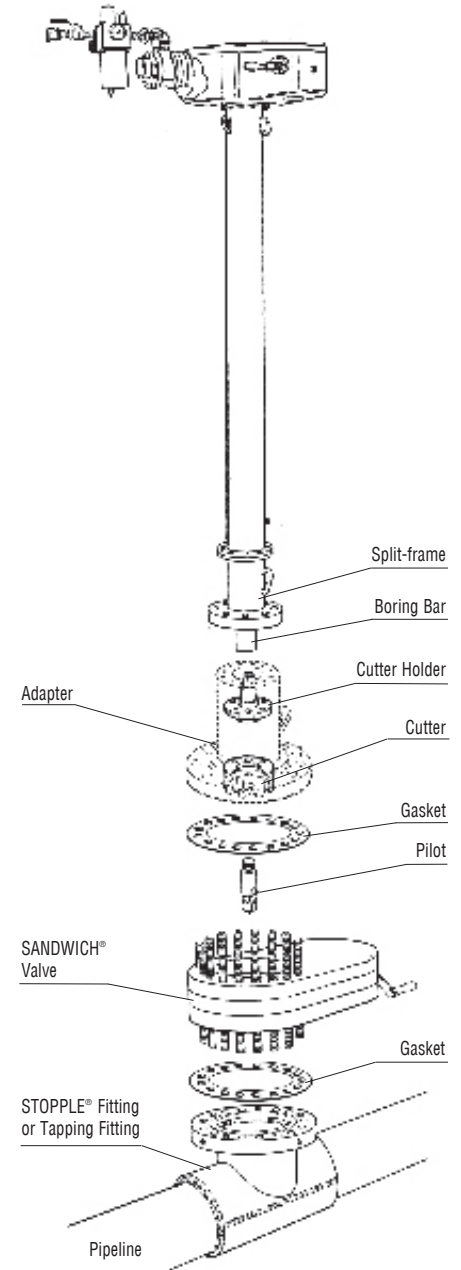
The basic machine includes:

- Lower-in crank
- Measuring rod
- Retainer rod pusher
- Ring gasket
- Bleeder valve and nipple
- Motor adapter
- Set of bolts and nuts
- LOCK-O-RING® bypass gauge
- Capability to set LOCK-O-RING® and LOCK-O-RING® Plus completion plugs

Options*

T.D. Williamson is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

- Model 660C Tapping Machine can be either air or hydraulically operated with optional dual drive.
- A flywheel can be installed on the tapping machine. It enhances performance of the tapping machine due to inertia and reduced stress on the gears.
- Hydraulic feed system can be installed as an option. It will assist technician to lower the completion plug during plug setting process.



* For design code options not listed and additional sizes, consult your sales representative.

Patented in the United States and in foreign countries.

Description

Tapping machines are used for making connections to pipelines, tanks, and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

Tapping machines are also used to set completion plugs such as LOCK-O-RING® or LOCK-O-RING® Plus plugs after completion of hot tapping and plugging operations.



660 Tapping Machine *Model 660C*

Operating Specifications

Boring Bar Travel	66" (1,676 mm)
Tank Taps*	3" through 14" (80-350 mm)
Pipe Taps*	3" through 16" (80-400 mm)
LOCK-O-RING® and LOCK-O-RING® Plus Completion Plugs	4" through 16" (100-400 mm)
Max. Operating Pressure	1,480 psi (102 bar) at 100°F (38°C)
Max. Operating Temperature	700°F (371°C) at 700 psi (48 bar)**
Power	Hydraulic or Air Motor
Feed Rate	Standard .005" (.127 mm) per revolution/optional .003" (.076 mm) per revolution
Lower-In Crank	4-1/2 turns per inch (5.6 mm per turn)
Length without measuring rod	88-1/2" (2,248 mm)
Length with measuring rod	158-1/2" (4,026 mm)
Meets NACE specification	MR0175

* See note 5 in "Recommended Power Options" chart

** For intermittent service only. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

Range of Tapping Machines

Operating options of the machine according to configuration by feed rate, type of drive and flywheel.
For example, the tapping machine PN 12300073 will have standard feed rate, air motor drive and flywheel.

Tapping Machine Part Number	Feed Rate		Type of Hydraulic Drive			Flywheel
	Slow (.003" / Revolution)	Standard (.005" / Revolution)	Air Motor Drive	Single Motor Drive	Tandem Motor Drive	
12300066	•		•			
12300067	•		•			•
12300068	•			•		
12300069	•			•		•
12300070	•				•	
12300071	•				•	•
12300072		•	•			
12300073		•	•			•
12300074		•		•		
12300075		•		•		•
12300076		•			•	
12300077		•			•	•

660 Tapping Machine *Model 660C*

Basic Machine Components

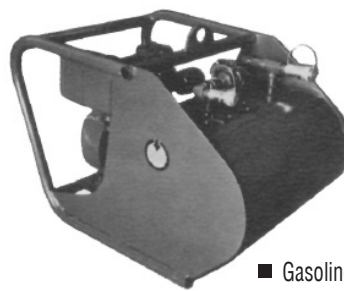
	Lb.	Kg.	Part Number
Tapping machine body (standard feed)	500	227	05-1395-0000
Tapping machine body (slow feed)	500	227	05-1393-0000
Air motor drive unit*	40	18	05-2327-0000
Single drive unit & control valve*	45	20	05-2508-0000
Tandem drive unit & control valve*	100	46	05-1379-0000

* These options will work with both feed rate tapping machines (slow and standard).

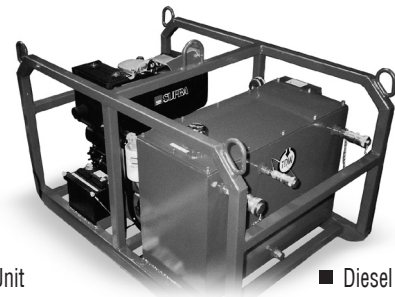
Additional Equipment

	Lb.	Kg.	Part Number
Skid*	179	81	05-1378-0000
Hydraulic Power Unit and 50' Hose (with oil)			
Manual Start/Diesel	585	266	05-2017-0000
Electric Start/Diesel	600	272	12303420
Manual Start/Gas	533	242	05-2351-0000
Electric Start/Gas	550	250	05-2354-0000
Hydraulic feed system for completion plug installation	45	21	05-1366-0000
Flywheel	46	21	05-2376-0000

* If skid is not purchased with the tapping machine, there will be an additional crating charge; consult factory.



■ Gasoline Power Unit



■ Diesel Power Unit



660 Tapping Machine *Model 660C*

Standard Adapters for Gate Valves

ASME Class 150 RF Flange					ASME Class 300 RF Flange			ASME Class 600 RF Flange		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
3	80	54	24	06-6102-0003	55	25	06-6103-0003	57	26	06-6105-0003
4	100	57	26	06-6102-0004 *	65	29	06-6103-0004	80	36	06-5091-0004
6	150	70	32	06-5088-0006 *	95	43	06-6103-0006	146	66	06-5091-0006
8	200	85	39	06-6102-0008 *	100	45	06-6103-0008	150	68	06-6105-0008
10	250	115	42	06-6102-0010 *	155	70	06-6103-0010	200	91	06-6105-0010
12	300	170	77	06-6102-0012 *	215	98	06-6103-0012	315	143	06-6105-0012
14	350	191	87	06-6102-0014	227	103	06-6103-0014	359	163	06-6105-0014
16**	400	300	136	06-6102-0016	350	160	06-6103-0016	460	210	06-6105-0016

* Will work on SHORTCUTT® Valves, Bulletin 2010.000.00

** For tandem drive hydraulic model.

Adapters for SANDWICH® Valves & Ball Valves (Compatible to set LOCK-O-RING® and LOCK-O-RING® Plus Completion Plugs)

ASME Class 150 RF Flange					ASME Class 300 RF Flange			ASME Class 600 RF Flange		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	65	29	26-3205-0415	7	34	26-3205-0430	85	39	26-3205-0460
6	150	80	36	26-3205-0615	100	45	26-3205-0630	130	59	26-3205-0660
8	200	100	45	26-3205-0815	125	57	26-3205-0830	170	77	26-3205-0860
10	250	170	77	26-3205-1015	210	5	26-3205-1030	285	129	26-3205-1060
12	300	250	113	26-3205-1215	300	136	26-3205-1230	375	170	26-3205-1260
14	350	285	129	26-3205-1415	350	159	26-3205-1430	425	193	26-3205-1460
16	400	400	181	26-3205-1615	490	222	26-3205-1630	610	277	26-3205-1666

Cutter Holders

Inches	mm	Lb.	Kg.	Part Number
3 & 4	80 & 100	2.5	1	05-0054-0001
6-12	150-300	8	4	05-0054-0002
14-16	350-400	7	3	05-0054-0003

Completion Plug Holders

Inches	mm	ASME Class	Lb.	Kg.	Part Number
LOCK-O-RING® Plugs					
4-16	100-400	600	3.5	1.6	05-0075-0000
LOCK-O-RING® Plus Plugs					
4-6	100-150	600	4.5	2	12308409
		900	4.5	2	12308306
8-16	200-400	600	11	5	12309011



660 Tapping Machine *Model 660C*

Standard Cutters & Pilot Drills

Nominal Tap Size		Actual Tap Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lbs.	Wt./Kg.	Part Number	Wt./Lbs.	Wt./Kg.	Part Number	Part Number
3	80	2-7/16	67	1	0.5	05-0001-0001	1/2	0.2	05-0293-0001	00-1424-0012
4	100	3-7/16	87.3	2	0.9	05-0328-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/32	138.9	5-3/4	3	05-0328-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-5/16	185.8	14-1/2	7	05-0328-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-1/2	241.3	22-1/2	10	05-0328-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-1/2	292.1	36	16	05-0389-0012	2-1/2	1.0	05-0293-0005	00-1424-0008
14	350	12-3/4	323.9	42	19	05-0389-0014	5-1/2	2.5	05-0293-0006	00-1424-0008
16	400	14-11/16	373.1	61	28	05-0389-0016	6	2.7	05-0293-0007	00-1424-0008

SHORTSTOPP® Cutters & Pilot Drills

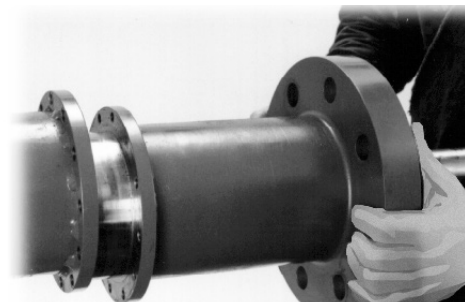
Nominal Tap Size		Actual Tap Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lbs.	Wt./Kg.	Part Number	Wt./Lbs.	Wt./Kg.	Part Number	Part Number
4	100	3-7/8	98.4	3-1/4	1	05-0330-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-7/8	149.2	8-3/4	3	05-0330-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-3/4	196.9	20	9	05-0330-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-3/4	247.7	23	10	05-0330-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-3/4	298.5	40	18	05-0330-0012	2-1/2	1.0	05-0293-0005	00-1424-0003

STOPPLE® Cutters & Pilot Drills

Nominal Tap Size		Actual T-ap Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-15/16	100	3-1/2	2	05-0329-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/16	150.8	9	4	05-0329-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-7/8	200	16	7	05-0329-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-7/8	250.8	27	12	05-0329-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-13/16	300.1	40-1/2	18	05-0388-0012	2-1/2	1	05-0293-0005	00-1424-0008
14	350	13-1/16	331.8	49	22	05-0388-0014	5-1/2	2.5	05-0293-0006	00-1424-0008
16	400	15-1/16	382.6	64	29	05-0388-0016	6	2.7	05-0293-0007	00-1424-0008

■ Split-frame Feature

The frame assembly is split at the lower end, so that the lower section can be unbolted and removed over the drive tube and boring bar, and the packing replaced.





660 Tapping Machine *Model 660C*

Recommended Power Options for Tapping Size-On-Size

Feed Rate	Cutter Size							
	3"	4"	6"	8"	10"	12"	14"	16"
(0.0057/REV) AIR/HYD	A	A	A	A	A	A		
	B	B	B	B	B			
	C	C	C	C				
	D	D	D	D				
	E	E	E	E				
	F	F	F	F				
(0.0057/REV) TANDEM HYD with Flywheel	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	
	C	C	C	C	C	C		
	D	D	D	D	D	D		
	E	E	E	E	E	E		
	F	F	F	F	F	F		
(0.0037/REV) AIR/HYD	A	A	A	A	A	A	A	
	B	B	B	B	B	B		
	C	C	C	C	C			
	D	D	D	D	D			
	E	E	E	E	E			
	F	F	F	F	F			
(0.0037/REV) TANDEM HYD with Flywheel	A	A	A	A	A	A	A	A
	B	B	B	B	B	B	B	
	C	C	C	C	C	C	C	
	D	D	D	D	D	D	D	
	E	E	E	E	E	E	E	
	F	F	F	F	F	F	F	

- The following letters represent:
 - A = Carbon steel pipe SMYS (Specified Minimum Yield Strength) 30,000 to 50,000 psi maximum, tensile strength of 70,000 psi.
 - B = Carbon steel pipe SMYS 50,000 to 70,000 psi maximum, tensile strength of 90,000 psi.
 - C = Cast iron pipe. Cutting characteristics vary widely; hard to predict.
 - D = Chrome-moly, high temperature, steel pipe.
 - E = 300 series stainless steel pipe.
 - F = Flat-plate cuts using special cutters on the materials listed above (refer to Notes 3 and 4). Pilot drill must be through before cutter tooth engages material.
- The dual hydraulic drive features an ability to shift from high speed/low torque to low speed/high torque when tapping the larger diameter pipes and/or the more difficult cutting steels.
- The table for selecting power options (above) is based on the latest TDW designs and past experience. The data should be used as a guideline. There have been, and will be, conditions which will not strictly follow the guidelines.
- Special cutters are available for flat plates, stainless steel pipe, cast iron pipe and other special conditions.
- When tapping a larger pipe or tank, the cutter will sometimes go through the flat-plate condition. For example, all teeth are cutting at the same time. This is the most power-consuming condition possible and special cutters may be required. Considering cutter size, diameter of cylinder, wall thickness, feed rates, different materials of construction, etc., there are many possibilities. The following table gives some examples of flat-plate conditions. Any pipe or tank with wall thicknesses greater than those shown will also be considered flat-plate.

Cutter Size	Nom. Pipe x Wall	Nom. Pipe x Wall	Nom. Pipe x Wall	Cutter Size	Nom. Pipe x Wall	Nom. Pipe x Wall	Nom. Pipe x Wall
3"	4" x .359"	6" x .232"	8" x .176"	10"	24" x .980"	30" x .772"	48" x .475"
4"	6" x .481"	8" x .357"	10" x .282"	12"	36" x .943"	48" x .699"	60" x .556"
6"	10" x .748"	12" x .616"	14" x .556"	14"	48" x .862"	60" x .685"	72" x .569"
8"	18" x .776"	20" x .692"	24" x .571"	16"	56" x .980"	60" x .913"	72" x .757"

760 Tapping Machine

Sizes: 3- to 16-inch

Model 760C



T.D. Williamson

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Version: 12.2017

Cross Indexing No: n/a

Supersedes: 1000.00610 (06.2015)



Description

Tapping machines are used for making connections to pipelines, tanks, and plant piping without shutdown and are used to make hot taps in preparation for plugging machine applications.

Tapping machines are also used to set completion plugs such as LOCK-O-RING® or LOCK-O-RING® Plus plugs after completion of hot tapping and plugging operations.

Model 760C Tapping Machines can be either air or hydraulically operated and are used for making pipe and tank taps from 3" to 16" (DN 80 to DN 400). Its maximum working pressure is 1,480 psi (102 bar) at 100°F (38°C). Its operating temperature is -20°F (-29°C) to 700°F (371°C) at 700 psi (48 bar) for intermittent service. Its maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar). This model features a split-frame for lower maintenance costs and ease of packing replacement.

Features

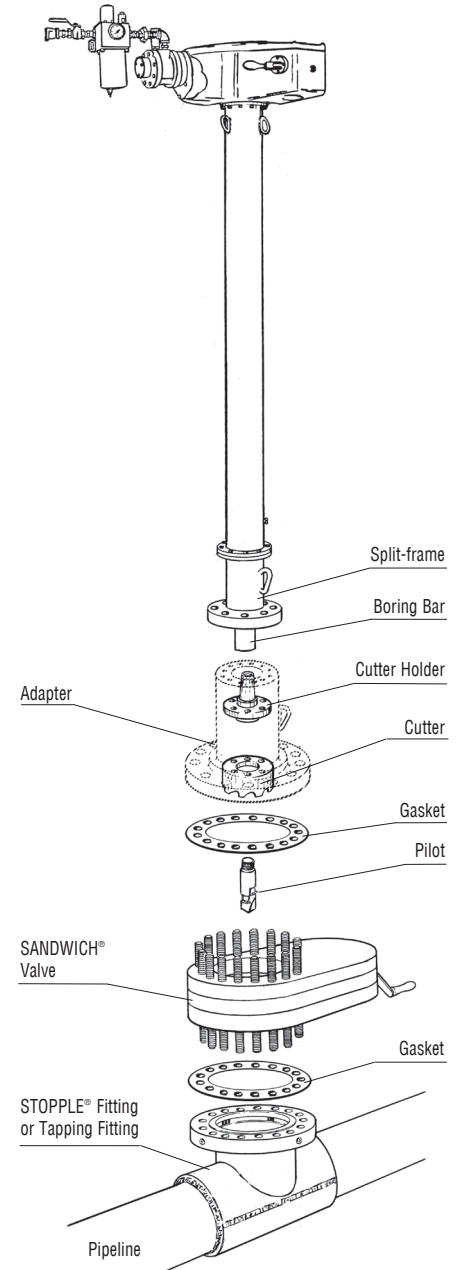
The basic machine includes:

- Lower-in crank
- Measuring rod
- Retainer rod pusher
- Ring gasket
- Bleeder valve and nipple
- Motor adapter
- Set of bolts and nuts
- LOCK-O-RING® bypass gauge
- Capability to set LOCK-O-RING® and LOCK-O-RING® Plus completion plugs

Options*

T.D. Williamson is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

- Model 760C Tapping Machine can be either air or hydraulically operated with optional dual drive.
- A flywheel can be installed on the tapping machine. It enhances performance of the tapping machine due to inertia and reduced stress on the gears.
- Hydraulic feed system can be installed as an option. It will assist technician to lower the completion plug during plug setting process.



* For design code options not listed and additional sizes, consult your sales representative.

Patented in the United States and in foreign countries.



760 Tapping Machine *Model 760C*

Operating Specifications

Boring Bar Travel	66" (1,676 mm)
Tank Taps*	3" through 14" (80-350 mm)
Pipe Taps*	3" through 16" (80-400 mm)
LOCK-O-RING® and LOCK-O-RING® Plus Completion Plugs	4" through 16" (100-400 mm)
Max. Operating Pressure	1,480 psi (102 bar) at 100°F (38°C)
Max. Operating Temperature	700°F (371°C) at 700 psi (48 bar)**
Power	Hydraulic or Air Motor
Feed Rate	Standard .005" (.127 mm) per revolution/optional .003" (.076 mm) per revolution
Lower-In Crank	4-1/2 turns per inch (5.6 mm per turn)
Length without measuring rod	88-1/2" (2,248 mm)
Length with measuring rod	158-1/2" (4,026 mm)
Meets NACE specification	MR0175

* See note 5 in "Recommended Power Options" chart

** For intermittent service only. Maximum continuous rating is 350°F (177°C) at 1,025 psi (70 bar).

Range of Tapping Machines

Operating options of the machine according to configuration by feed rate, type of drive and flywheel.
For example, the tapping machine PN 12300073 will have standard feed rate, air motor drive and flywheel.

Tapping Machine Part Number	Feed Rate		Type of Hydraulic Drive			Flywheel
	Slow (.003" / Revolution)	Standard (.005" / Revolution)	Air Motor Drive	Single Motor Drive	Tandem Motor Drive	
12300066	•		•			
12300067	•		•			•
12300068	•			•		
12300069	•			•		•
12300070	•				•	
12300071	•				•	•
12300072		•	•			
12300073		•	•			•
12300074		•		•		
12300075		•		•		•
12300076		•			•	
12300077		•			•	•

760 Tapping Machine *Model 760C*

Basic Machine Components

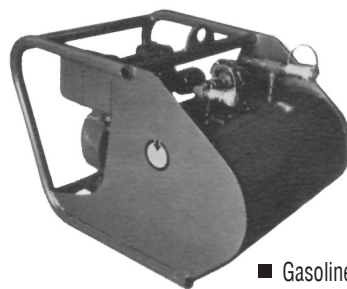
	Lb.	Kg.	Part Number
Tapping machine body (standard feed)	500	227	05-1395-0000
Tapping machine body (slow feed)	500	227	05-1393-0000
Air motor drive unit*	40	18	05-2327-0000
Single drive unit & control valve*	45	20	05-2508-0000
Tandem drive unit & control valve*	100	46	05-1379-0000

* These options will work with both feed rate tapping machines (slow and standard).

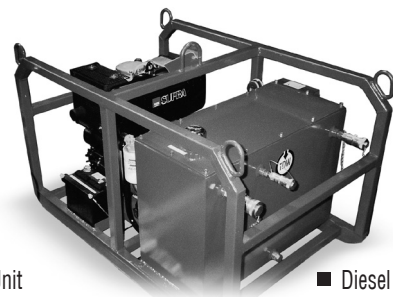
Additional Equipment

	Lb.	Kg.	Part Number
Skid*	179	81	05-1378-0000
Hydraulic Power Unit and 50' Hose (with oil)			
Manual Start/Diesel	585	266	05-2017-0000
Electric Start/Diesel	600	272	12303420
Manual Start/Gas	533	242	05-2351-0000
Electric Start/Gas	550	250	05-2354-0000
Hydraulic feed system for completion plug installation	45	21	05-1366-0000
Flywheel	46	21	05-2376-0000

* If skid is not purchased with the tapping machine, there will be an additional crating charge; consult factory.



■ Gasoline Power Unit



■ Diesel Power Unit



760 Tapping Machine *Model 760C*

Standard Adapters for Gate Valves

ASME Class 150 RF Flange					ASME Class 300 RF Flange			ASME Class 600 RF Flange		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
3	80	54	24	06-6102-0003	55	25	06-6103-0003	57	26	06-6105-0003
4	100	57	26	06-6102-0004 *	65	29	06-6103-0004	80	36	06-5091-0004
6	150	70	32	06-5088-0006 *	95	43	06-6103-0006	146	66	06-5091-0006
8	200	85	39	06-6102-0008 *	100	45	06-6103-0008	150	68	06-6105-0008
10	250	115	42	06-6102-0010 *	155	70	06-6103-0010	200	91	06-6105-0010
12	300	170	77	06-6102-0012 *	215	98	06-6103-0012	315	143	06-6105-0012
14	350	191	87	06-6102-0014	227	103	06-6103-0014	359	163	06-6105-0014
16**	400	300	136	06-6102-0016	350	160	06-6103-0016	460	210	06-6105-0016

* Will work on SHORTCUTT® Valves, Bulletin 2010.000.00

** For tandem drive hydraulic model.

Adapters for SANDWICH® Valves & Ball Valves (Compatible to set LOCK-O-RING® and LOCK-O-RING® Plus Completion Plugs)

ASME Class 150 RF Flange					ASME Class 300 RF Flange			ASME Class 600 RF Flange		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	65	29	26-3205-0415	7	34	26-3205-0430	85	39	26-3205-0460
6	150	80	36	26-3205-0615	100	45	26-3205-0630	130	59	26-3205-0660
8	200	100	45	26-3205-0815	125	57	26-3205-0830	170	77	26-3205-0860
10	250	170	77	26-3205-1015	210	5	26-3205-1030	285	129	26-3205-1060
12	300	250	113	26-3205-1215	300	136	26-3205-1230	375	170	26-3205-1260
14	350	285	129	26-3205-1415	350	159	26-3205-1430	425	193	26-3205-1460
16	400	400	181	26-3205-1615	490	222	26-3205-1630	610	277	26-3205-1666

Cutter Holders

Inches	mm	Lb.	Kg.	Part Number
3 & 4	80 & 100	2.5	1	05-0054-0001
6-12	150-300	8	4	05-0054-0002
14-16	350-400	7	3	05-0054-0003

Completion Plug Holders

Inches	mm	ASME Class	Lb.	Kg.	Part Number
LOCK-O-RING® Plugs					
4-16	100-400	600	3.5	1.6	05-0075-0000
LOCK-O-RING® Plus Plugs					
4-6	100-150	600	4.5	2	12308409
		900	4.5	2	12308306
8-16	200-400	600	11	5	12309011



760 Tapping Machine *Model 760C*

Standard Cutters & Pilot Drills

Nominal Tap Size		Actual Tap Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
3	80	2-7/16	67	1	0.5	05-0001-0001	1/2	0.2	05-0293-0001	00-1424-0012
4	100	3-7/16	87.3	2	0.9	05-0328-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/32	138.9	5-3/4	3	05-0328-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-5/16	185.8	14-1/2	7	05-0328-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-1/2	241.3	22-1/2	10	05-0328-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-1/2	292.1	36	16	05-0389-0012	2-1/2	1.0	05-0293-0005	00-1424-0008
14	350	12-3/4	323.9	42	19	05-0389-0014	5-1/2	2.5	05-0293-0006	00-1424-0008
16	400	14-11/16	373.1	61	28	05-0389-0016	6	2.7	05-0293-0007	00-1424-0008

SHORTSTOPP® Cutters & Pilot Drills

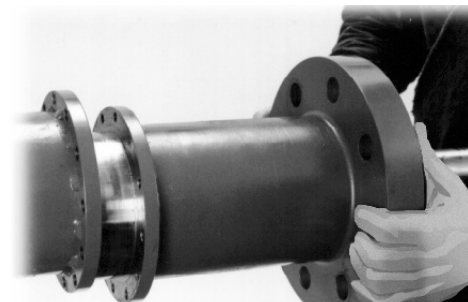
Nominal Tap Size		Actual Tap Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-7/8	98.4	3-1/4	1	05-0330-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-7/8	149.2	8-3/4	3	05-0330-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-3/4	196.9	20	9	05-0330-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-3/4	247.7	23	10	05-0330-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-3/4	298.5	40	18	05-0330-0012	2-1/2	1.0	05-0293-0005	00-1424-0003

STOPPLE® Cutters & Pilot Drills

Nominal Tap Size		Actual T-ap Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-15/16	100	3-1/2	2	05-0329-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/16	150.8	9	4	05-0329-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-7/8	200	16	7	05-0329-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-7/8	250.8	27	12	05-0329-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-13/16	300.1	40-1/2	18	05-0388-0012	2-1/2	1	05-0293-0005	00-1424-0008
14	350	13-1/16	331.8	49	22	05-0388-0014	5-1/2	2.5	05-0293-0006	00-1424-0008
16	400	15-1/16	382.6	64	29	05-0388-0016	6	2.7	05-0293-0007	00-1424-0008

■ Split-frame Feature

The frame assembly is split at the lower end, so that the lower section can be unbolted and removed over the drive tube and boring bar, and the packing replaced.





760 Tapping Machine *Model 760C*

Recommended Power Options for Tapping Size-On-Size

Feed Rate	Cutter Size							
	3"	4"	6"	8"	10"	12"	14"	16"
(0.0057/REV) AIR/HYD	A	A	A	A	A	A		
	B	B	B	B	B			
	C	C	C	C				
	D	D	D	D				
	E	E	E	E				
	F	F	F	F				
(0.0057/REV) TANDEM HYD with Flywheel	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	
	C	C	C	C	C	C		
	D	D	D	D	D	D		
	E	E	E	E	E	E		
	F	F	F	F	F	F		
(0.0037/REV) AIR/HYD	A	A	A	A	A	A	A	
	B	B	B	B	B	B		
	C	C	C	C	C			
	D	D	D	D	D			
	E	E	E	E	E			
	F	F	F	F	F			
(0.0037/REV) TANDEM HYD with Flywheel	A	A	A	A	A	A	A	A
	B	B	B	B	B	B	B	
	C	C	C	C	C	C	C	
	D	D	D	D	D	D	D	
	E	E	E	E	E	E	E	
	F	F	F	F	F	F	F	

- The following letters represent:
 - A = Carbon steel pipe SMYS (Specified Minimum Yield Strength) 30,000 to 50,000 psi maximum, tensile strength of 70,000 psi.
 - B = Carbon steel pipe SMYS 50,000 to 70,000 psi maximum, tensile strength of 90,000 psi.
 - C = Cast iron pipe. Cutting characteristics vary widely; hard to predict.
 - D = Chrome-moly, high temperature, steel pipe.
 - E = 300 series stainless steel pipe.
 - F = Flat-plate cuts using special cutters on the materials listed above (refer to Notes 3 and 4). Pilot drill must be through before cutter tooth engages material.
- The dual hydraulic drive features an ability to shift from high speed/low torque to low speed/high torque when tapping the larger diameter pipes and/or the more difficult cutting steels.
- The table for selecting power options (above) is based on the latest TDW designs and past experience. The data should be used as a guideline. There have been, and will be, conditions which will not strictly follow the guidelines.
- Special cutters are available for flat plates, stainless steel pipe, cast iron pipe and other special conditions.
- When tapping a larger pipe or tank, the cutter will sometimes go through the flat-plate condition. For example, all teeth are cutting at the same time. This is the most power-consuming condition possible and special cutters may be required. Considering cutter size, diameter of cylinder, wall thickness, feed rates, different materials of construction, etc., there are many possibilities. The following table gives some examples of flat-plate conditions. Any pipe or tank with wall thicknesses greater than those shown will also be considered flat-plate.

Cutter Size	Nom. Pipe x Wall	Nom. Pipe x Wall	Nom. Pipe x Wall	Cutter Size	Nom. Pipe x Wall	Nom. Pipe x Wall	Nom. Pipe x Wall
3"	4" x .359"	6" x .232"	8" x .176"	10"	24" x .980"	30" x .772"	48" x .475"
4"	6" x .481"	8" x .357"	10" x .282"	12"	36" x .943"	48" x .699"	60" x .556"
6"	10" x .748"	12" x .616"	14" x .556"	14"	48" x .862"	60" x .685"	72" x .569"
8"	18" x .776"	20" x .692"	24" x .571"	16"	56" x .980"	60" x .913"	72" x .757"

860 Tapping Machine

Tapping Sizes: 4- to 20-inches

Model 860B



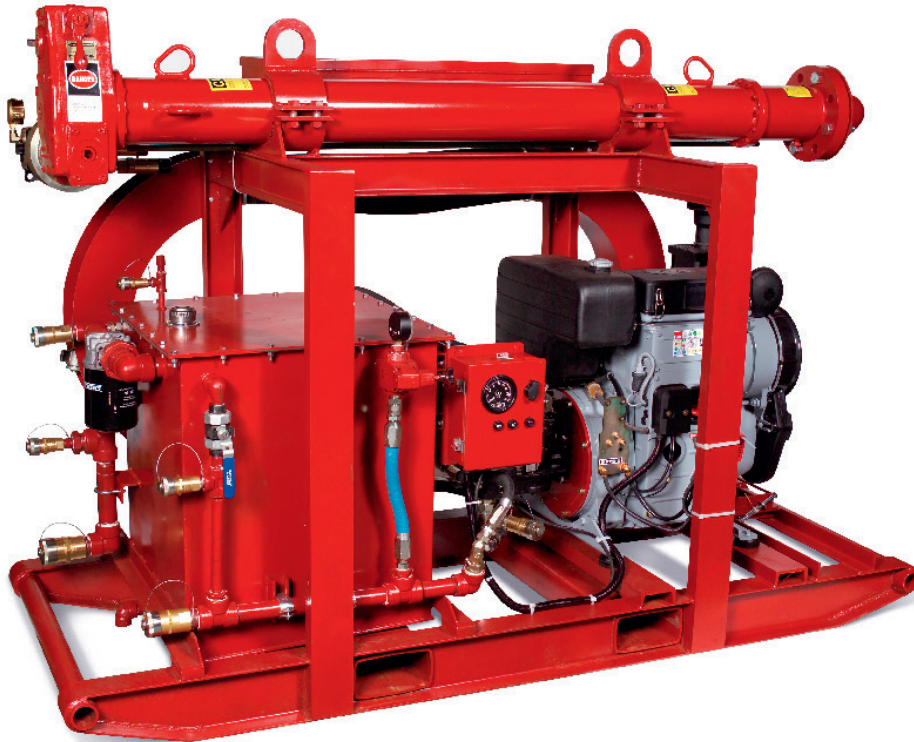
T.D. Williamson

Bulletin No: 1000.008.07

Version: 12.2017

Cross Indexing No: n/a

Supersedes: 1000.008.06 (8.2016)



Description

Tapping machines are used for making connections to pipelines, tanks, and plant piping without shutdown and to make hot taps in preparation for plugging machine application.

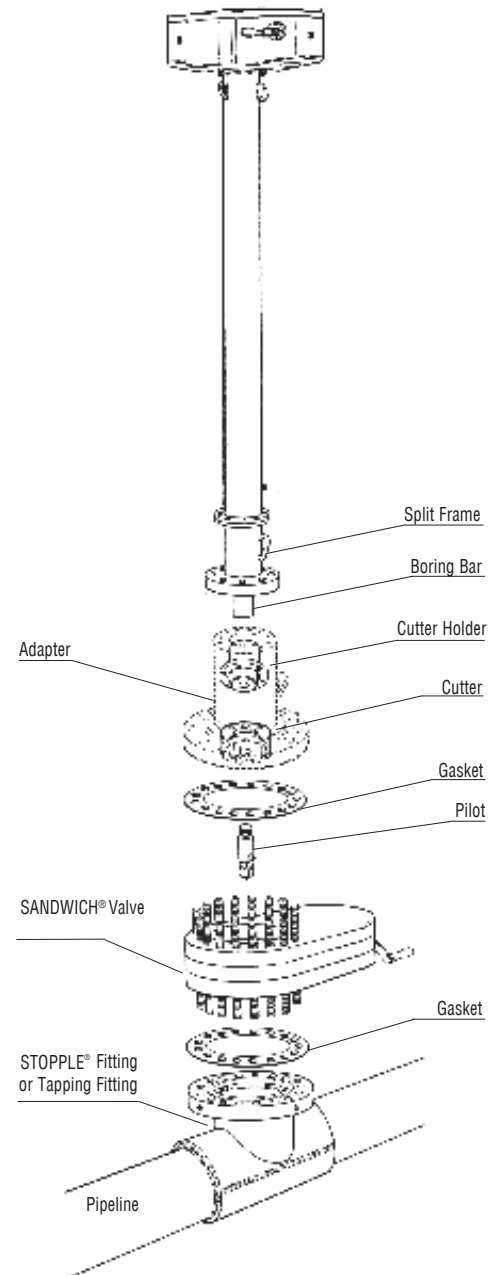
The 860B Tapping Machine is hydraulically operated and is used for making pipe and tank taps from 4- to 20-inch (DN 80 to DN 500). It includes an electric start, diesel power unit. Its maximum working pressure is 1,480 psi (100 bar) at 100° F (38° C). Its operating temperature is -20° F (-9° C) to 700° F (371° C) at 700 psi (48 bar) for intermittent service. Its maximum continuous rating is 350° F (177° C) at 1,025 psi (70 bar).

This model features a split frame for lower maintenance costs and ease of packing replacement.

Features

The basic machine includes:

- "Lower-in" crank
- Measuring rod
- Retainer rod pusher
- Ring gasket
- Bleeder valve and nipple
- Motor adapter
- Set of bolts and nuts
- LOCK-O-RING® bypass gauge
- Convenient storage with tapping machine atop power unit
- Speed control without changing power unit RPM
- Pendant Control System (50 ft.)





860 Tapping Machine *Model 860B*

Operating Specifications

Boring Bar Travel	66-inches (1,676 mm)
Tank Taps*	4- through 12-inch (80-300 mm)
Pipe Taps*	4- through 20-inch (80-500 mm)
Max. Operating Pressure	1,480 psi (100 bar) at 100° F (38° C)
Max. Operating Temperature	700° F (371° C) at 700 psi (48 bar)**
Power	Hydraulic
Feed Rate	.005-inch (.127 mm) per revolution
“Lower-In” Crank	4-1/2 turns per inch (5.6 mm per turn)
Length without measuring rod	88-1/2-inches (2,248 mm)
Length with measuring rod	158-1/2-inches (4,026 mm)
Meets NACE specification	MR0175-2000

* See note 5 in “Recommended Power Options” Chart.

** For intermittent service only. Its maximum continuous rating is 350° F (177° C) at 1,025 psi (70 bar).

Hydraulic Operation Model (Std)

Standard Feed (.005-in./Revolution)

	Lb.	Kg.	Part Number
Total Package	2500	977	05-1164-0000
Tapping Machine	500	227	05-1163-0000
Hydraulic Power Unit w/o Oil and 50 ft. Hoses			
Electric Start/Diesel1650	2000	750	05-2360-0000

860 Tapping Machine *Model 860B*

Standard Universal Adapters for SANDWICH® Valves and Ball Valves

(Capable of Setting LOCK-O-RING® and LOCK-O-RING® Plus Completion Plug)

		ASME Class 300 RF Flange			ASME Class 600 RF Flange		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	75	34	26-3205-0430	85	39	26-3205-0460
6	150	100	45	26-3205-0630	130	59	26-3205-0660
8	200	125	57	26-3205-0830	170	77	26-3205-0860
10	250	210	95	26-3205-1030	285	129	26-3205-1060
12	300	300	136	26-3205-1230	375	170	26-3205-1260
14	350	350	159	26-3205-1430	425	193	26-3205-1460
16	400	490	222	26-3205-1630	610	277	26-3205-1660
18	450	690	299	26-3205-1830	800	363	26-3205-1860
20	500	850	386	26-3205-2030	1025	465	26-3205-2060

Special Shortened Adapters for Gate Valves

		ASME Class 150 RF Flange			ASME Class 300 RF Flange			ASME Class 600 RF Flange		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	57	26	06-6102-0004*	65	29	06-6103-0004	80	36	06-5091-0004
6	150	70	32	06-5088-0006*	95	43	06-6103-0006	146	66	06-5091-0006
8	200	85	39	06-6102-0008*	100	45	06-6103-0008	150	68	06-6105-0008
10	250	115	42	06-6102-0010*	155	70	06-6103-0010	200	91	06-6105-0010
12	300	170	77	06-6102-0012*	215	98	06-6103-0012	315	143	06-6105-0012
14	350	191	87	06-6102-0014	227	103	06-6103-0014	359	163	06-6105-0014
16	400	300	136	06-6102-0016	350	160	06-6103-0016	460	210	06-6105-0016

* Will work on SHORTCUTT® Valves, Bulletin 2010.000.00

Consult the factory for 18 in. and 20 in. adapters.

Cutter Holders & LOCK-O-RING® Plug Holders

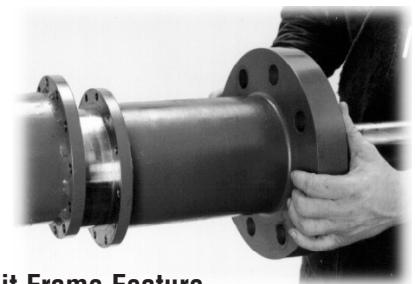
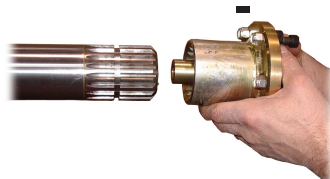
		Cutter Holders			LOCK-O-RING® Plug Holders		
Inches	mm	Lb.	Kg.	Part Number	Lb.	Kg.	Part Number
4	100	2.5	1	05-1168-0000	3.5	2	05-0075-0000
6-12	150-300	9	4	05-1167-0000	3.5	2	05-0075-0000
14-20	350-400	16	7	05-1166-0000	10	4.5	05-1044-0000

LOCK-O-RING® Plus Plug Holders

Inches	mm	Part Number
4-6	100-150	12308409
8-20	200-400	12309011

■ Splined Drive Feature

The new splined drive provides much greater strength to the end of the boring bar, as it turns the cutter. North & South America: +1 918 447 5000



Split Frame Feature

The frame assembly is split at the lower end, so that the lower section can be unbolted and removed over the drive tube and boring bar and the packing replaced.



860 Tapping Machine *Model 860B*

Standard Cutters & Pilot Drills

Nominal Tap Size		Actual Size		Cutters			Pilot Drills			Spare U-Rods
Inches	mm	Inches	mm	Wt./Lb.	Wt./Kg.	Part Number	Wt./Lb.	Wt./Kg.	Part Number	Part Number
4	100	3-7/16	87.3	2	0.9	05-0328-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/32	138.9	5-3/4	3	05-0328-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-5/16	185.8	14-1/2	7	05-0328-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-1/2	241.3	22-1/2	10	05-0328-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-1/2	292.1	36	16	05-0389-0012	2-1/2	1.0	05-0293-0005	00-1424-0008
14	350	12-3/4	323.9	42	19	05-0389-0014	5-1/2	2.5	05-0294-0002	00-1424-0008
16	400	14-11/16	373.1	61	28	05-0389-0016	6	2.7	05-0294-0003	00-1424-0008
18	450	15-1/16	383	53-1/2	24	05-0388-0016	6	2.7	05-0294-0003	00-1424-0008
20	500	17	432	84	38	05-0388-0018	6-1/2	3	05-0294-0004	00-1424-0008

SHORTSTOPP® Cutters & Pilot Drills

4	100	3-7/8	98.4	3-1/4	1	05-0330-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-7/8	149.2	8-3/4	3	05-0330-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-3/4	196.9	20	9	05-0330-0008	2	0.9	05-0293-0003	00-1424-0003
10	250	9-3/4	247.7	23	10	05-0330-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-3/4	298.5	40	18	05-0330-0012	2-1/2	1.0	05-0293-0005	00-1424-0003

STOPPLE® Cutters & Pilot Drills

4	100	3-15/16	100	3-1/2	2	05-0329-0004	1/2	0.2	05-0293-0008	00-1424-0012
6	150	5-15/16	150.8	9	4	05-0329-0006	2	0.9	05-0293-0002	00-1424-0003
8	200	7-7/8	200	16	7	05-0329-0008	2	.09	05-0293-0003	00-1424-0003
10	250	9-7/8	200.8	27	12	05-0329-0010	2	0.9	05-0293-0004	00-1424-0003
12	300	11-13/16	300.1	40-1/2	18	05-0388-0012	2-1/2	1	05-0293-0005	00-1424-0008
14	350	13-1/16	331.8	49	22	05-0388-0014	5-1/2	2.5	05-0294-0002	00-1424-0008
16	400	15-1/16	382.6	64	29	05-0388-0016	6	2.7	05-0294-0003	00-1424-0008
18	450	17	432	84	38	05-0388-0018	6-1/2	3	05-0294-0004	00-1424-0008
20	500	19	483	98	45	05-0388-0020	7-1/2	3	05-0294-0005	00-1424-0008



860 Tapping Machine *Model 860B*

Recommended Power Options for Tapping Size On Size

Feed Rate	Cutter Size (in.)									
	4	6	8	10	12	14	16	18	20	
(0.005 in./REV) HYD	A	A	A	A	A	A	A	A	A	A
	B	B	B	B	B	B	B	B	B	B
	C	C	C	C	C	C	C	C	C	C
	D	D	D	D	D	D	D	D	D	D
	E	E	E	E	E	E	E	E	E	E
	F	F	F	F	F	F	F	F	F	F

Notes

- The following letters represent:
 - A = Carbon steel pipe SMYS (Specified Minimum Yield Strength) 30,000 to 50,000 psi, maximum tensile strength of 70,000 psi.
 - B = Carbon steel pipe SMYS 50,000 to 70,000 psi, maximum tensile strength of 90,000 psi.
 - C = Cast iron pipe. Cutting characteristics vary widely; hard to predict.
 - D = Chrome-moly, high temperature, steel pipe.
 - E = 300 series stainless steel pipe.
 - F = Flat plate cuts using special cutters on the materials listed above (refer to Notes 3 and 4). Pilot drill must be through before cutter tooth engages material.
- The table (above) is based on the latest TDW designs and past experience. The data should be used as a guideline. There have been, and will be, conditions which will not strictly follow the guidelines.
- Special cutters are available for flat plates, stainless steel pipe, cast iron pipe and other special conditions.
- When tapping a larger pipe or tank, the cutter will sometimes go through the flat-plate condition. For example, all teeth are cutting at the same time. This is the most power-consuming condition possible and special cutters may be required. Considering cutter size, diameter of cylinder, wall thickness, different materials of construction, etc., the possibilities are infinite. The following table gives some examples of flat-plate conditions. Any pipe or tank with wall thicknesses greater than those shown will also be considered flat plate.

Cutter Size (in.)	Nom. Pipe x Wall	Nom. Pipe x Wall	Nom. Pipe x Wall
4	6" x .481"	8" x .357"	10" x .282"
6	10" x .748"	12" x .616"	14" x .556"
8	18" x .776"	20" x .692"	24" x .571"
10	24" x .980"	30" x .772"	48" x .475"
12	36" x .943"	48" x .699"	60" x .556"
14	48" x .862"	60" x .685"	72" x .569"
16	56" x .980"	60" x .913"	72" x .757"



T.D. Williamson

1000.008.07 - p6

Air Motors

For T-101b, T-101XL, TD-12, 904, 904XL Sizes 1/2" Through 6"



T.D. Williamson, Inc.

Bulletin No: 1010.002.00

Date: June 2003

Cross Indexing No: n/a

Supersedes: n/a



■ Pistol Grip Air Motor



■ Right Angle Air Motor

Description

T.D. Williamson, Inc.'s Air Motors are efficient tools for operating TDW drilling machines. The Air Motors are designed for horizontal and vertical installation. These machines are designed to allow safe taps to be made in piping systems while under pressure.

High torque, PISTOL GRIP Air Motor with 1/2-inch male square drive head with ball detent attachment oiler.

Powerful, high torque, RIGHT ANGLE Air Motor with 1/2-inch male square drive head with ball detent attachment. Needle valve included for air supply regulation.

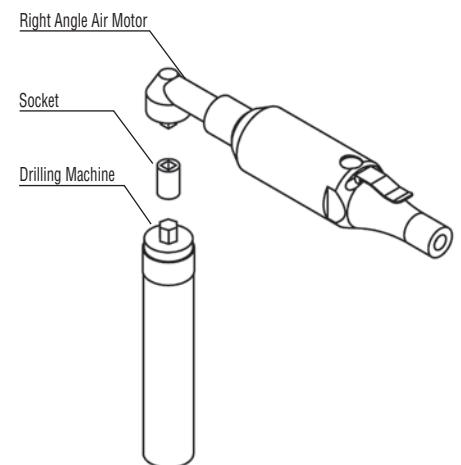
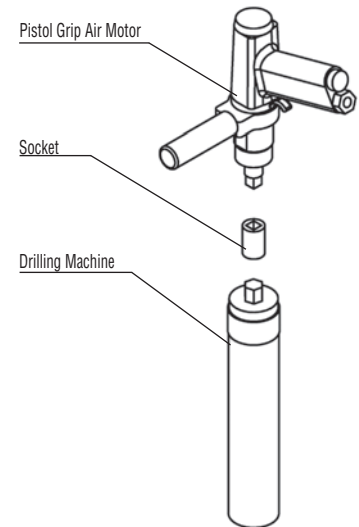
Features

The PISTOL GRIP Air Motor includes an auxiliary handle, which can be rotated 360 degrees. Also, these hand-held drills have an automatic oiler and a safety button for locking in the off position.

The RIGHT ANGLE Air Motor includes an air supply regulator to adjust revolutions per minute (RPM). It also includes a reversible direction, spring-loaded trigger for immediate release and stopping of Air Motor.

Caution: Improper use of Air Motors may result in Operator injury. Consult operating instructions before using your equipment.

Typical Setup



ISO 9001 Certified

Toll Free
1-888-TDWmSon (839-6766)



Air Motors

Operating Specifications

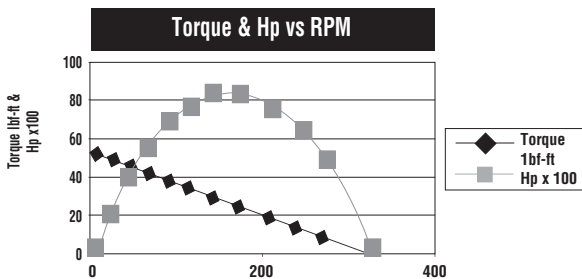
	Pistol Grip Motor	Right Angle Motor
Torque @ 0RPM	--	82 ft/lbs
Max RPM	325	300
Recommended RPM		
Size	RPM	RPM
1-1/4, 1-1/2, 2 inches	195	195
3-inches	120	120
4-inches	100	100
6-inches	80	80
Drills - all sizes	195	195
Hose Diameter*	5/16-inches for max of 25 feet	

* The pressure required is at motor inlet, not the hose inlet. For a given compressor a larger size may be required. The hose ID should increase 1/8 inch for every additional 25 feet at a maximum of 75 feet.

Air Motors and Sockets

Item	Lb.	Kg.	Part Number
Pistol Grip Air Motor	6	3	00-1508-0001-00
Right Angle Air Motor	8	4	05-2160-0000-00
1/2" Socket (TD12)			00-1509-0002-00
3/4" Socket (T-101, 904)			00-1509-0004-00

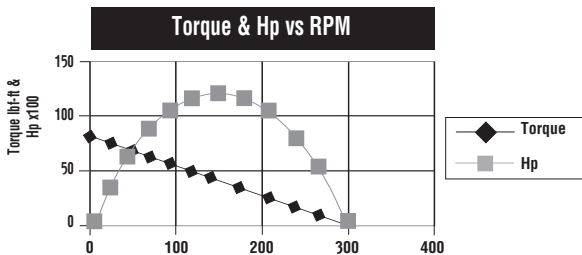
Pistol Grip Air Motor



RPM	Torque lbf-ft	Hp x 100
300	0.00	0.000
265	9.97	50.30
240	14.12	64.54
210	19.11	76.40
180	24.09	82.57
150	29.8	83.05
120	34.06	77.83
95	38.22	69.13
70	42.37	56.47
45	46.52	39.86
20	50.68	19.30
0	54.00	0.000

Note: These charts assume a 90 psi inlet pressure with a flow of 32 CFM

Right Angle Air Motor



RPM	Torque lbf-ft	HpX100
300	0.00	0.000
265	9.92	50.04
240	17.00	77.68
210	25.50	101.96
180	34.00	116.53
150	42.50	121.38
120	51.00	116.53
95	58.08	105.06
70	65.17	86.86
45	72.25	61.90
20	79.33	30.21
0	85.00	0.000

Note: These charts assume a 90 psi inlet pressure with a flow of 32 CFM



Fall Protection Equipment

For TDW Tapping Machines and STOPPLE® Plugging Machines



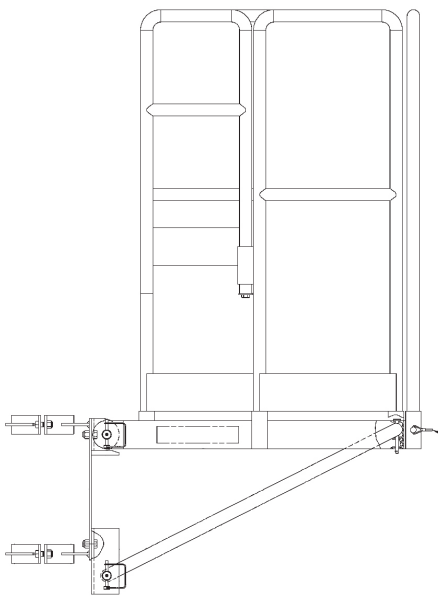
T.D. Williamson

Bulletin No: 1010.003.01

Date: 01.2018

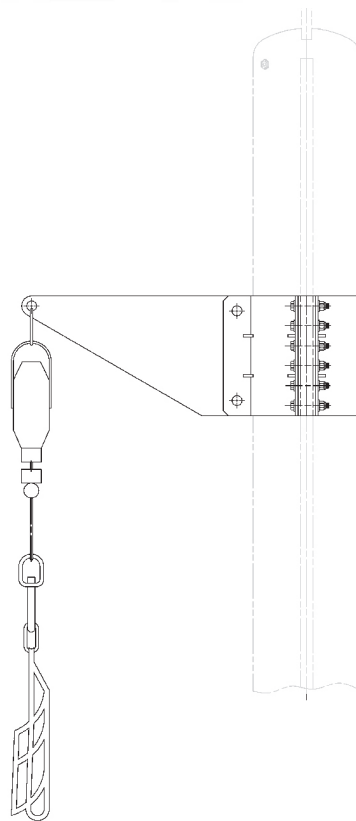
Cross Indexing No: n/a

Supersedes: 1010.003.00 (02.2006)



■ Tapping Machine Work Platform

For: 660, 760, 860 and 1200 Tapping Machines



■ Hydraulic Cylinder Fall Protection Boom

For STOPPLE® Plugging Machines

Features

TDW Fall Protection Equipment provides security features designed to allow machine operators the access and mobility that they require to perform their work in a safe manner.

- Bolt-on fixtures
- Can be retrofitted to existing machines
- Detachable for ease in handling and shipping
- Aluminum floor on platforms for reduced weight
- Boom are designed to meet fall protection support requirements of 5,000 lbs.

Description

TDW fall protection equipment, consisting of work platforms, fall protection booms, harnesses and lifting clamps, is specifically designed for worksite safety of operators on TDW 660, 760, 860 and 1200 Tapping Machines and STOPPLE® Plugging Machines.

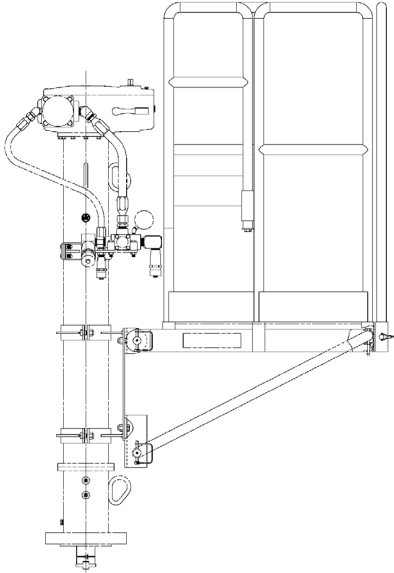
- Tapping Machine Work Platforms are easily installed and can be retrofitted to existing machines. Platforms may be removed for ease of handling and to facilitate shipping the tapping machines. Simply remove lock pins and leave the bolted-on

brackets in place to allow for quick and easy reattachment.

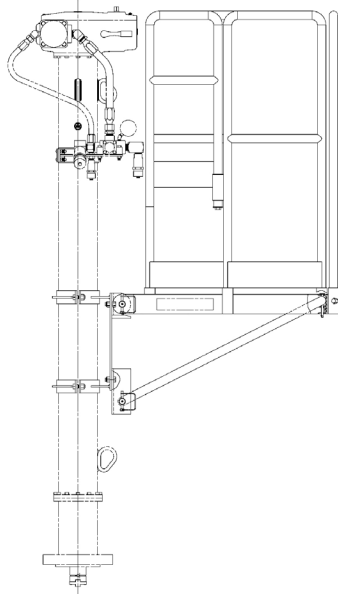
- Fall Protection Booms accommodate four different hydraulic cylinder sizes ranging from 4-inches and larger.
- The Safety Harness Assembly attaches to firmly secured booms and protects technicians in the event of falling while they are operating equipment.
- Lifting Clamps have recommended locations for attachment to TDW hydraulic cylinders, which will allow an equipment operator to easily and safely reach lifting slings for release or re-attachment.



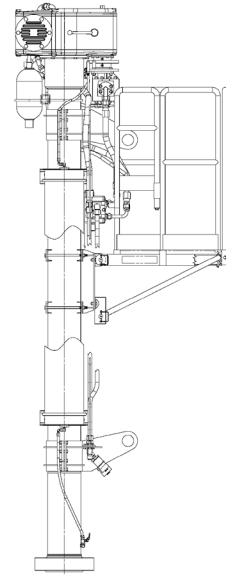
Fall Protection Equipment



■ 660 Tapping Machine Work Platform



■ 760 & 860 Tapping Machine Work Platform



■ 1200 Tapping Machine Work Platform

Tapping Machine Work Platforms

Tapping Machine	Weight		Part Number
	Lbs.	Kg.	
660	210	95	05-2401-0000-00
760	210	95	05-2407-0000-00
860	210	95	05-2407-0000-00
1200	210	95	05-1229-0000-00



■ Fall Arrest System

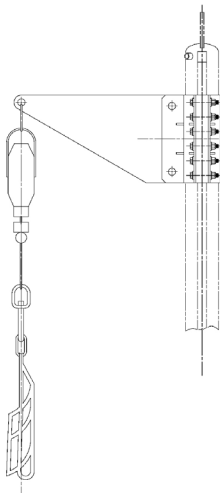
Fall Arrest System

Item	Part Number
Fall Arrest System Kit*	05-1077-0106

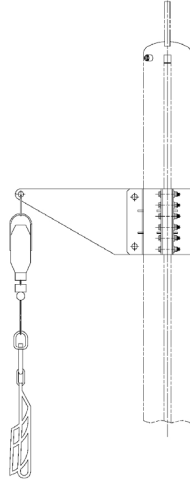
*For 1200 Tapping Machine



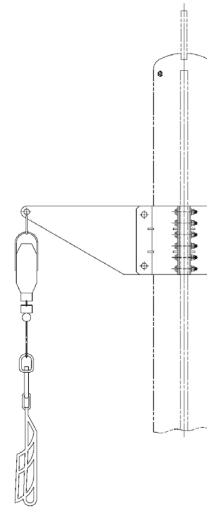
Fall Protection Equipment



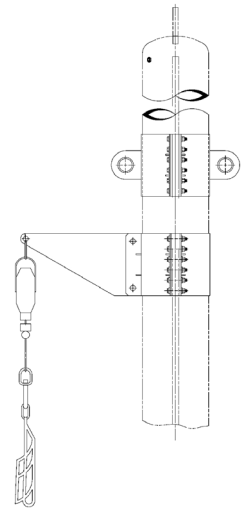
■ 4- through 12-inch STOPPLE® IIb
Cylinder Fall Protection Boom



■ 14- through 20-inch STOPPLE® IIb
Cylinder Fall Protection Boom



■ 22- through 34-inch STOPPLE® IIb
Cylinder Fall Protection Boom



■ 36- through 42-inch STOPPLE® IIb
Cylinder Fall Protection Boom

Hydraulic Cylinder Fall Protection Booms

Size	Weight		Part Number
	Lbs.	Kg.	
4-12	70	31	08-2546-0000
14-20	85	39	08-2547-0000
22-34	110	50	08-2548-0000
36 and larger	110	50	08-2549-0000



T.D. Williamson

1010.003.01 - p4



SHORTSTOPP® II

Plugging System, Sizes: 1-1/4" through 12"



T.D. Williamson, Inc.

Bulletin No: 2080.001.04

Date: July 2006

Cross Indexing No: n/a

Supersedes: 2080.001.03 1/05



■ **SHORTSTOPP® II Plugging System**
Size 3 x 4



■ **SHORTSTOPP® II Plugging System**
Size 6 x 8

Description

The SHORTSTOPP® II Plugging System is more dependable, easier to use, and more cost efficient than any other system on the market for plugging 1-1/4" through 12" lines in pressures up to 200 psi and a maximum operating temperature of 180°F. It meets industry standards for temporarily plugging

distribution mains. It is a system capable of meeting the growing demands for working under higher pressures and is capable of plugging 4" and 6" polyethylene pipe as well.*

The SHORTSTOPP II Plugging System is the state-of-the-art distribution plugging system.

*With appropriate adaptation kit.

Features

- Pressures to 200 psi. See specific data sheet for maximum pressure.
- Maximum operating temperature of 180°F
- Lightweight, durable, dependable and easy to use
- Plugs 4-, 6-, 8-, 10- and 12-inch mains through reduced branch fittings, using folding plugging head
- Plugs 1-1/4 through 12-inch mains size on size
- Plugs 4- and 6-inch polyethylene pipe*
- Pivot ball gland reduces wear on housing and control bar
- Control bar jack provides mechanical advantage when lowering plugging head in 4-inch and larger sizes
- Control bar latch and clamp secure plugging head in seated position
- Setting completion plug in fitting permits removal of tapping valve

Options

- Sealing elements for 60, 150, and 200 psi
- Chip sweep and magnetic chip removal tool available
- Visual inspection tool available
- 3 x 4, 4 x 6, 6 x 8, 8 x 10/12-inch reduced branch fittings permit plugging through smaller access
- Refer to the following data sheets for equipment make up for each size

Patented in the United States and in foreign countries.
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® II Plugging System

SHORTSTOPP® II Plugging Machines

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
1-1/4	32	16	7	08-3303-0000-00
1-1/2	40	18	8	08-3305-0000-00
2	50	18	8	08-3309-0000-00
3	80	45	20	08-3500-0300-00
4	100	71	32	08-3500-0400-00
6	150	110	46	¹ 08-3500-0600-00
6	150	95	43	² 08-3500-5600-00
8	200	170	77	08-3500-0800-00
10	250	370	168	08-3500-1000-00
12	300	400	181	08-3500-1200-00
3 x 4	80 x 100	55	25	08-3501-0304-00
4 x 6	100 x 150	100	45	08-3501-0406-00
6 x 8	150 x 200	150	68	08-3501-0608-00
8 x 10	200 x 250	320	145	08-3501-0810-00
8 x 12	200 x 300	350	159	08-3501-0812-00

This includes plugging machine, plugging head assembly and chip sweep (sealing element sold separately).

¹ Standard - 1" diameter control bar.

² Alternate - 1-1/4" diameter control bar.

Plugging Machines For Polyethylene Gas Pipe

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4" & 6"	100 & 150	55	25	^{1 & 2} 08-3508-0646
6" only	150	105	48	² 08-3508-0606

¹ 6" Plugging requires special nose adapter to attach larger sealing elements

² Requires 6" SHORTSTOPP® Valve Part Number 09-0697-0000

Cases for Plugging Machines

Size	Part Number
1-1/4	08-2481-0006
1-1/2	08-2481-0006
2	08-2481-0006
3	08-2565-0001-00
3x4	08-2565-0001-00
4	08-2565-0002-00
4x6	08-2565-0003-00
6	08-2565-0004-00 ¹
6	08-2565-0007-00 ²
6x8	08-2565-0006-00
8	08-2565-0004-00
8x10	08-2565-0005-00
8x12	08-2565-0005-00
10	08-2565-0009-00
12	08-2565-0009-00

¹ Note: 08-2565-0004-00 6-inch is for 08-3500-0600-00

² Note: 08-2565-0007-00 6-inch is for 08-3500-5600-00

SHORTSTOPP® II Sealing Elements

Size					
Inches	DN	Standard 60 psi [†]	Thinwall 60 psi	Standard 150 psi [†]	Thinwall 150 psi* [†]
1-1/4	32	08-0114-0125 [†]	--	--	--
1-1/2	40	08-0114-0015 [†]	--	--	--
2	50	08-0114-0002	08-0501-0200	08-3427-0002 [†]	--
3	80	08-0114-0003	08-0502-0003	08-3427-0003 [†]	08-3428-0003 [†]
4	100	08-0114-0004	08-0502-0004	08-3427-0004 [†]	08-3428-0004 [†]
6	150	08-0114-0006	08-0502-0006	08-3427-0006-SUFF [†]	08-3428-0006-SUFF [†]
8	200	08-0114-0008	08-1719-0008	08-3427-0008-SUFF	08-3428-0008-SUFF
10	250	08-0114-0010	08-1719-0010	08-3427-0010-SUFF	08-3428-0010-SUFF
12	300	08-0114-0012	08-1719-0012	08-3427-0012-SUFF	08-3428-0012-SUFF
3 X 4	80 x 100	--	--	08-2332-0004-SUFF	08-2332-0004-SUFF
4 X 6	100 x 150	--	--	08-2332-0006-SUFF	08-2332-0006-SUFF
6 X 8	150 x 200	--	--	08-2332-0008-SUFF	08-2332-0008-SUFF
8 X 10	200 x 250	--	--	08-2332-0010-SUFF	08-2332-0010-SUFF
8 X 12	200 x 300	--	--	08-2332-0012-SUFF	08-2332-0012-SUFF

*Specify pipe I.D. when ordering.

[†] Up to 200 psi



SHORTSTOPP® II Plugging System

Sealing Elements For Polyethylene Pipe

Size		
Inches	DN	Part Number
4	100	08-2294-0004
6*	150	108-2294-0002
6**	150	08-2332-0006-06

¹ For SDR 11 and 11.5 Pipe

* When using 3x4 Machine

** When using 4x6 Machine

SHORTSTOPP® II Completion Plug Holders

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
1-1/4	32	.4	.2	08-0367-0001
1-1/2	40	.8	.4	08-2301-0000
2	50	.8	.4	08-2301-0000
3	80	3	1.4	08-3394-0000
3 Sq. Dr.	80	3	1.4	08-3393-0000
4	100	4	2	08-3395-0000
6 & 8	150 & 200	8	4	08-3396-0000
10 & 12	250 & 300	15	7	08-3398-0000
3 x 4	80 x 100	3	1.42	08-3394-0000
4 x 6	100 x 150	6	3	08-3392-0000
6 x 8	150 x 200	8	4	08-3396-0000
8 x 10, 12	200 x 250 & 300	12	5	08-3397-0000

Polyethylene Conversion Kits For Steel Equipment

Refer to TDW Data Sheets: SS-4PE, SS-6PE, SS-8PE

SHORTSTOPP® II Plugging Head Kits

Size			Weight		Part Number
Inches	DN	Used With (.in)	Lbs.	Kg.	
3	80	3 x 4	4	2	08-3421-0000
4	100	4 x 6	6	3	08-3419-0000
6	150	6 x 8	12	6	08-3318-0000
8	200	8 x 10, 8 x 12	32	16	08-3420-0000

Used with Folding Plugging Machine for Size-on-Size Plugging and Sweeping Chips.



SHORTSTOPP® II Plugging System

SHORTSTOPP® II SIGHT GLASS Kits

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
¹ 1-1/4 - 3	32 - 80	29	13	² 08-3423-0000-00
¹ 1-1/4 - 1-1/2	32 - 40	23	11	² 08-3423-0000-01
¹ 2	50	23	11	² 08-3423-0000-02
¹ 3 - 3 x 4	80 - 80 x 100	24	11	08-3423-0000-03
¹ 4 - 12	100 - 300	16	7	³ 08-3424-0000-00
¹ 4 - 6	100 - 150	14	7	³ 08-3424-0000-01
¹ 8 - 12	200 - 300	15	7	³ 08-3424-0000-02

¹ With Chip Sweep and Magnet

² Includes 3" x 2" Adapter

³ Requires T-203 Tapping Adapter

SHORTSTOPP® II Adapters for Use with Sight Glass

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
1-1/4 - 3 x 4	32 - 80 x 100	16	7	08-2340-0000-00
4 - 6	100 - 150	11	5	³ 08-2339-0000-01
8 - 12	200 - 300	11	5	³ 08-2339-0000-02

¹ With Chip Sweep and Magnet

³ Requires T-203 Tapping Adapter

SHORTSTOPP® II 1-1/4-inch Plugging Machine



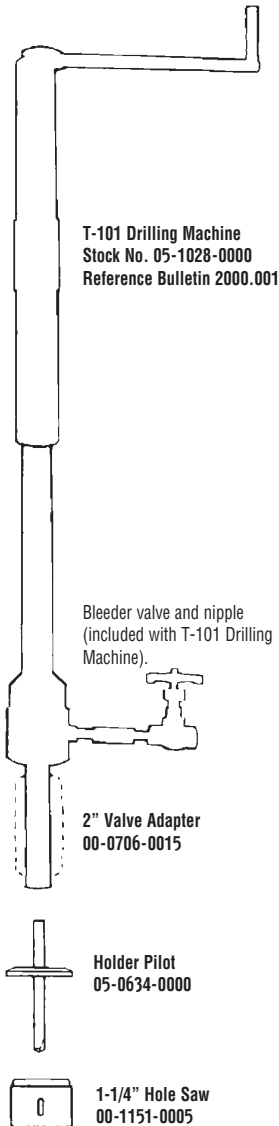
T.D. Williamson, Inc.

Data Sheet No. **SSII-1-1/4**

Date: December 2010

Supersedes: September 2004

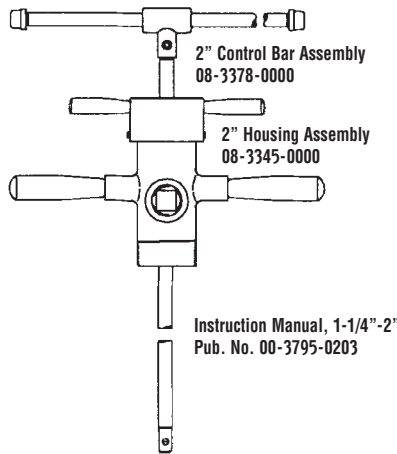
Tapping



Plugging

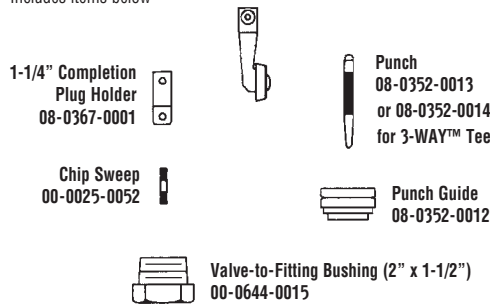
1-1/4" Plugging Machine Assembly 08-3303-0000

Includes items below



1-1/4" Plugging Head Assembly 08-3302-0000

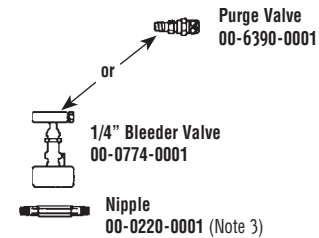
Includes items below



Sealing Element Not Included (Note 5)

Bleeder Valve Accessory

Purchased separately



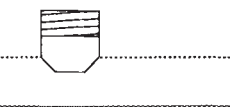
Carrying case for plugging machine
sold separately 08-2481-0006

2" SHORTCUTT® 500 Valve
09-0758-0000
500 psi MWP



1-1/4" 3-WAY™ Tee
06-6741-0000 (Note 4)

1-1/4" Welding Fitting
06-1179-0000 (Note 4)



Refer to back for fitting options.

Notes

- Maximum Working Pressure:** 200 psi at 100°F (May be limited by valve selection.)
- Maximum Working Temperature:** 180°F at 120 psi.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Includes threaded completion plug and cap.
- Sealing Elements** - Refer to chart at right.

Pipe ID	Part No.
1.312-1.380	08-0114-0125-00
1.250-1.311	08-0114-0125-01

Consult factory for unlisted pipe ID.



T.D. Williamson, Inc.

Data Sheet No. **SSII-1-1/4**

Fittings

Tapping and *SHORTSTOPP*® II Plugging Machine

1-1/4-inch Gas Main



■ **Welding Fitting**
See Bulletin 2100.003



■ **3-WAY™ Tee**
See Bulletin 2100.002

■ **Note:** Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 1-1/2-inch Plugging Machine



T.D. Williamson, Inc.

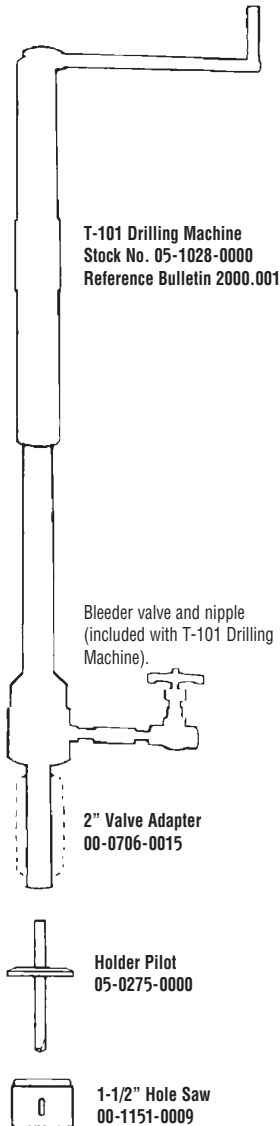
Data Sheet No. **SSII-1-1/2**

Date: December 2010

Supersedes: December 2004

Data Sheet No. SSII-1-1/2

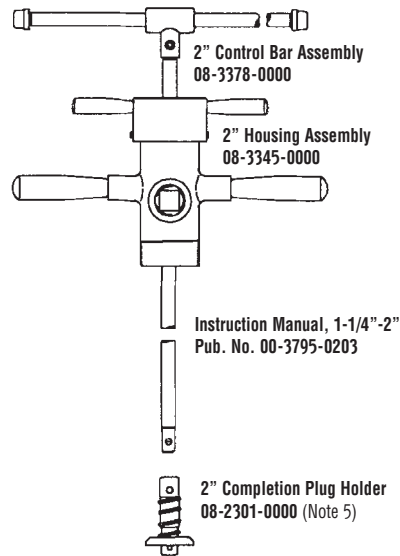
Tapping



Plugging

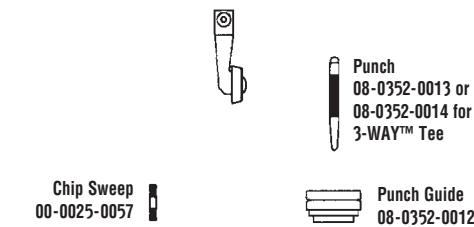
1-1/2" Plugging Machine Assembly 08-3305-0000

Includes items below



1-1/2" Plugging Head Assembly 08-3304-0000

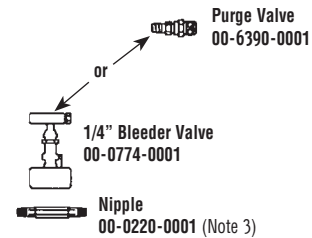
Includes items below



Sealing Element Not Included (Note 6)

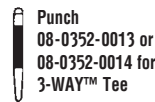
Bleeder Valve Accessory

Purchased separately

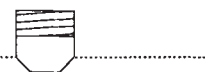


Carrying case for plugging machine
sold separately 08-2481-0006

2" SHORTCUTT® 500 Valve
09-0758-0000
500 psi MWP



1-1/2" Welding Fitting
26-0211-0000-00 (Note 4)



1-1/2" 3-WAY™ Tee
26-0216-0000-00 (Note 4)



1-1/2" Steel Pipe

Refer to back for fitting options.

Notes

- Maximum Working Pressure:** 200 psi at 100°F (May be limited by valve selection.)
- Maximum Working Temperature:** 180°F at 120 psi.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Includes threaded completion plug and cap.
- Solid Completion Plug Holder** - 08-0367-0001
- Sealing Elements** - Refer to chart at right.

Pipe ID	Part No.
1.562-1.630	08-0114-0015-00
1.500-1.561	08-0114-0015-01

Consult factory for unlisted pipe ID.



T.D. Williamson, Inc.

Data Sheet No. SSII-1-1/2

Fittings

Tapping and *SHORTSTOPP*® II Plugging Machine 1-1/2-inch Gas Main



■ Welding Fitting
See Bulletin 2100.003



■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



■ 3-WAY™ Tee
See Bulletin 2100.002

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 2-inch Plugging Machine



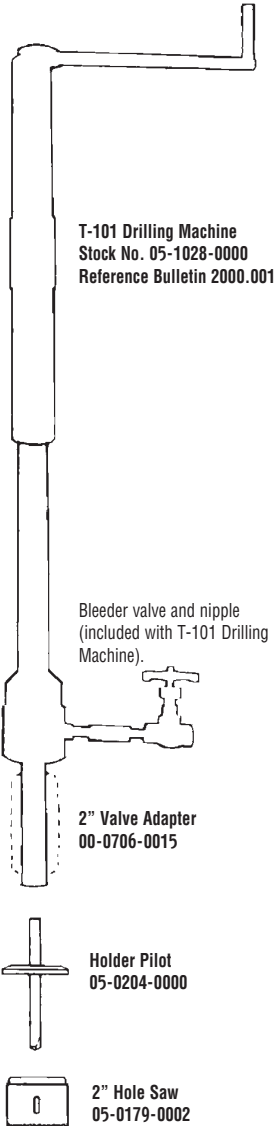
T.D. Williamson, Inc.

Data Sheet No. **SSII-2**

Date: September 2004

Supersedes: December 2003

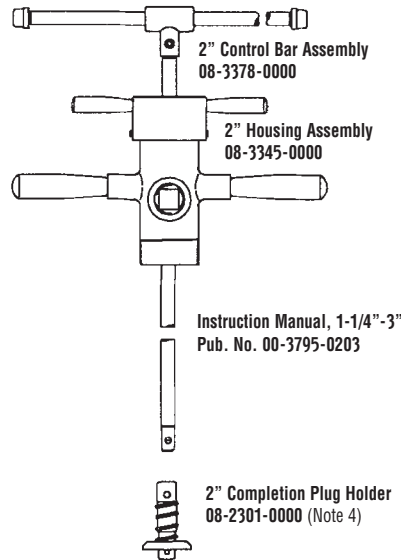
Tapping



Plugging

2" Plugging Machine Assembly 08-3309-0000

Includes items below



2" Standard Plugging Head Assembly 08-3306-0000

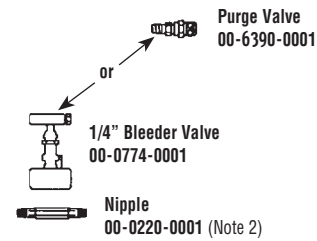
Includes items below



Sealing Element Not Included (Note 5)

Bleeder Valve Accessory

Purchased separately

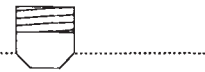


Carrying case for plugging machine
sold separately 08-2481-0006

2" SHORTCUTT® Valve
09-0758-0000
500 psi MWP



2" Welding Fitting
26-0212-0000-00 (Note 3)



2" 3-WAY™ Tee
26-0217-0000-00 (Note 3)



2" Steel Pipe

Refer to back for fitting options.

Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; with special cups, 200 psi at 100°F or 120 psi at 180°F (see chart at right). Pressure rating may be limited by valve selection.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Includes threaded completion plug and cap.
- Solid Completion Plug Holder** - 08-0367-0001.
- Sealing Elements** - Refer to chart at right.

60 psi MWP Pipe ID	60 psi MWP Part No.	200 psi MWP Pipe ID	200 psi MWP Part No.
2.126-2.157	08-0501-0200-00	2.062-2.157	08-3427-0002-00
2.062-2.125	08-0114-0002-00	2.000-2.061	08-3427-0002-01
2.000-2.061	08-0114-0002-01	1.938-1.999	08-3427-0002-02
1.939-1.999	08-0114-0002-02		

Consult factory for unlisted pipe ID.



T.D. Williamson, Inc.

Data Sheet No. **SSII-2**

Fittings

Tapping and **SHORTSTOPP® II** Plugging Machine 2-inch Gas Main



■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



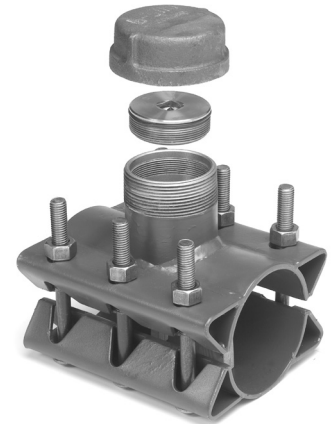
■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2100.002



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 3-inch Size-on-Size Plugging Machine

(1-inch Dia. Control Bar)



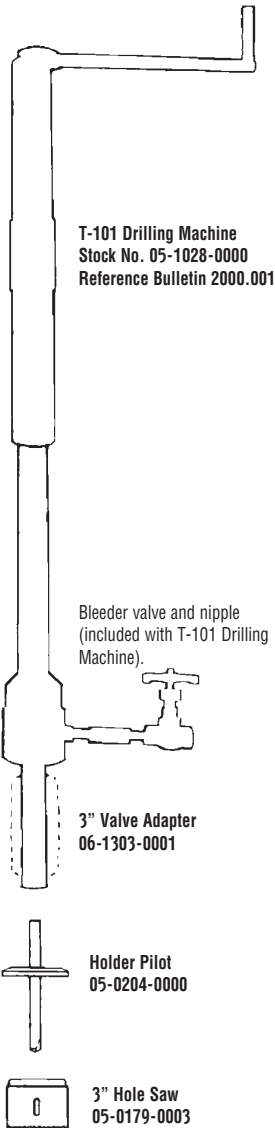
T.D. Williamson, Inc.

Data Sheet No. **SSII-3**

Date: September 2004

Supersedes: December 2003

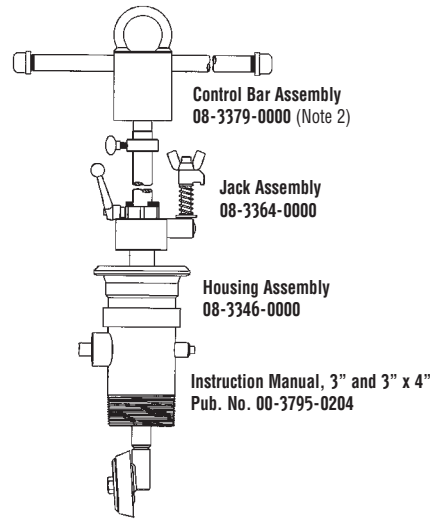
Tapping



Plugging

3" Plugging Machine Assembly 08-3500-0300

Includes items below



Standard Plugging Head Assembly 08-3314-0000

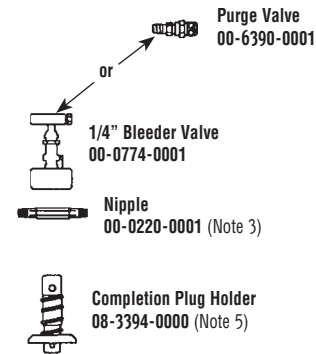
Includes items below



Sealing Element Not Included (Note 6)

Bleeder Valve Accessory

Purchased separately



3" Sight Glass Kit 08-3423-0000-03

See Sight Glass Data Sheet for details

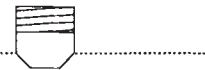
Carrying case for plugging machine sold separately 08-2481-0005

SHORTCUTT® Valve
09-0759-0000
500 psi MWP



3-WAY™ Tee
26-0218-0000-00 (Note 4)

SHORTSTOPP® Welding Fitting
26-0213-0000-00 (Note 4)



3" Steel Pipe

Refer to back for fitting options.

Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; with special cups, 200 psi at 100°F or 120 psi at 180°F (see chart at right). Pressure rating may be limited by valve selection.
- 3" x 4" Control Bar Assembly** may be used with 3" Plugging Head Control Bar Adapter 08-3421-0002 for plugging 3" pipe.
- Bleeder valve and nipple** are provided with

- TDW Drilling Machines.**
- Fitting** - Includes threaded completion plug and cap.
- Solid Completion Plug Holder** - 08-3393-000.
- Sealing Elements** - Refer to chart at right.

60 psi MWP Pipe ID	60 psi MWP Part No.	200 psi MWP Pipe ID	200 psi MWP Part No.
3.188-3.260	08-0502-0003-00	3.250-3.312	08-3428-0003-00
3.062-3.188	08-0114-0003-00	3.062-3.125	08-3427-0003-00
2.875-2.937	08-0114-0003-03	2.875-2.937	08-3427-0003-03

Consult factory for unlisted pipe ID.



T.D. Williamson, Inc.

Data Sheet No. **SSII-3**

Fittings

Tapping and **SHORTSTOPP® II** Plugging Machine 3-inch Gas Main



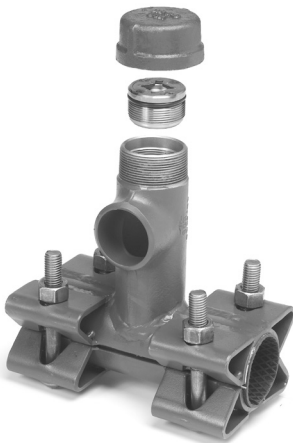
■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 4-inch Size-on-Size Plugging Machine

(1-inch Dia. Control Bar)



T.D. Williamson, Inc.

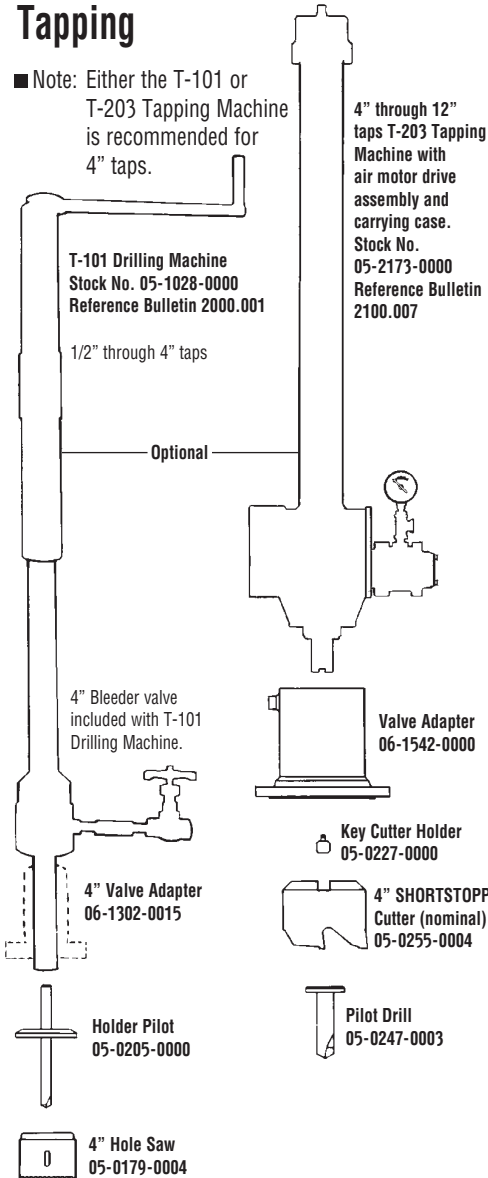
Data Sheet No. SSII-4

Date: September 2004

Supersedes: December 2003

Tapping

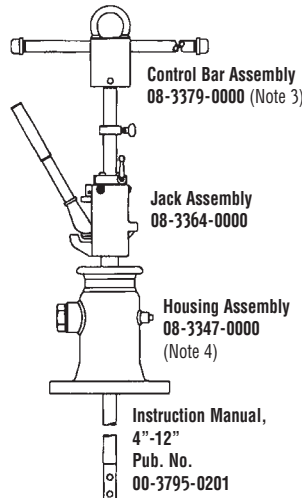
■ Note: Either the T-101 or T-203 Tapping Machine is recommended for 4" taps.



Plugging

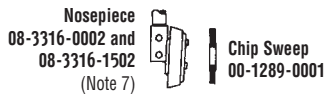
4" Plugging Machine Assembly 08-3500-0400

Includes items below



Standard Plugging Head Assembly 08-3316-0000

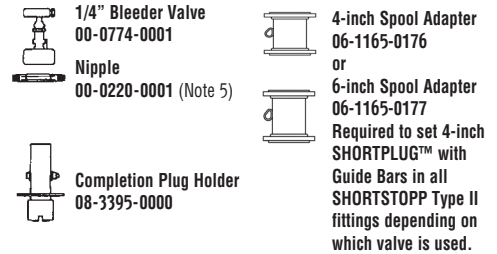
Includes items below



Sealing Element Not Included (Note 7)

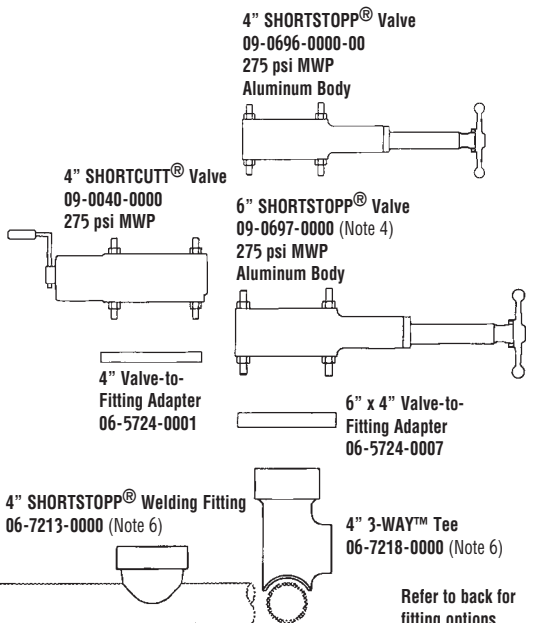
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-01 (Note 2)

See Sight Glass Data Sheet for details



Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; 200 psi at 100°F or 120 psi at 180°F, with special cups/nosepieces (see chart at right).
- Sight Glass Kit** - Requires the use of a T-203 Tapping Adapter. 4" Part No. 06-1542-0000 6" Part No. 06-1543-0000.
- 3" x 4" Control Bar Assembly** may also be used 08-3386-0000.
- If using a 6" SHORTCUTT® or SHORTSTOPP® Valve, use 4-6 PE Housing Assembly 08-3357-0000 and use 6" x 4" Tapping Adapter (f/T-101) 06-8872-0005.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- Sealing Elements** - Refer to chart at right. Use 08-3428-0004-03 to plug 4" 3-way tee outlet.

Pipe ID	60 psi MWP Sealing Element	60 psi MWP Nosepiece	Pipe ID	200 psi MWP Sealing Element	200 psi MWP Nosepiece
4.250-4.260	08-0502-0004-00	08-3316-1502	4.156-4.260	08-3428-0004-01	08-3316-1502
4.124-4.187	08-0502-0004-02	08-3316-1502	4.062-4.156	08-3428-0004-02	08-3316-1502
4.026-4.188	08-0114-0004-00	08-3316-0002	3.962-4.125	08-3428-0004-03	08-3316-1502
3.812-3.874	08-0114-0004-03	08-3316-0002	3.875-3.937	08-3427-0004-02	08-3316-0002
Consult factory for unlisted pipe ID.			3.812-3.874	08-3427-0004-03	08-3316-0002
			3.750 - 3.811	08-3427-0004-04	08-3316-0002



T.D. Williamson, Inc.

Data Sheet No. SSII-4

Fittings

Tapping and SHORTSTOPP® II Plugging Machine 4-inch Gas Main

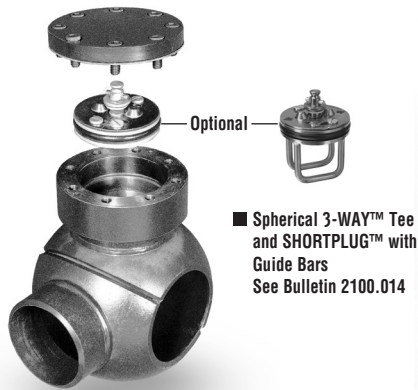
Data Sheet No. SSII-4



Optional

■ Welding Fitting and SHORTPLUG™ with Guide Bars
See Bulletin 2100.013

■ Welding Fitting
See Bulletin 2100.003



Optional

■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.014

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



Optional

■ 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.012

■ 3-WAY™ Tee
See Bulletin 2100.002



■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001



■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011



■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 6" Size-on-Size Plugging Machine

(1-5/8" Dia. Control Bar)



T.D. Williamson, Inc.

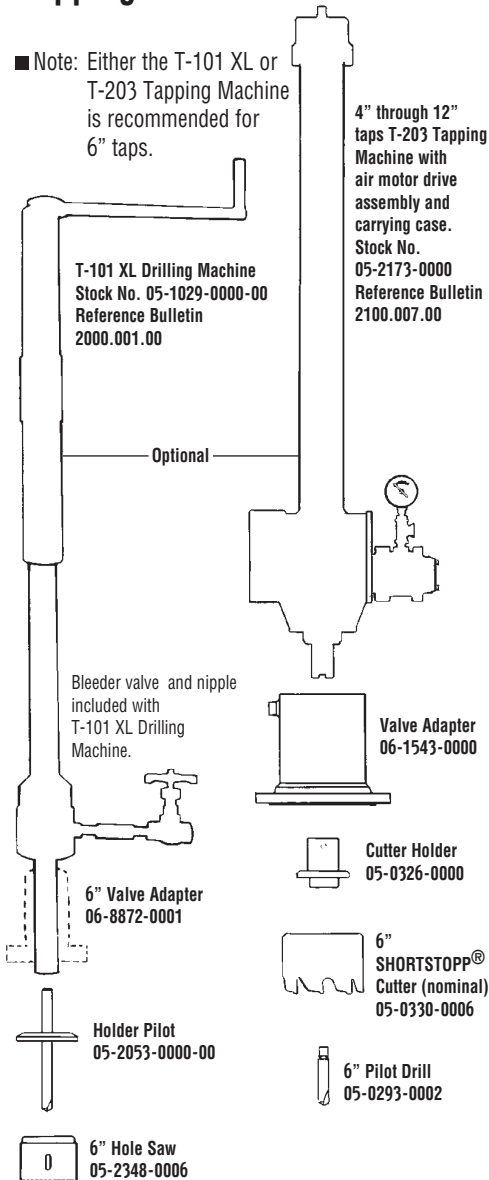
Data Sheet No. SSII-6

Date: September 2004

Supersedes: December 2003

Tapping

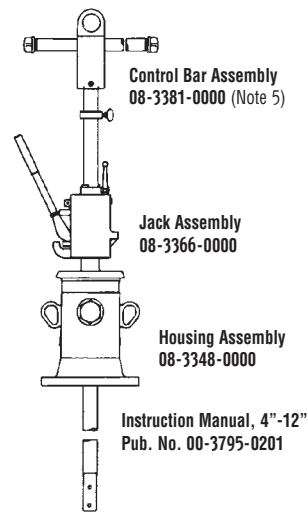
■ Note: Either the T-101 XL or T-203 Tapping Machine is recommended for 6" taps.



Plugging

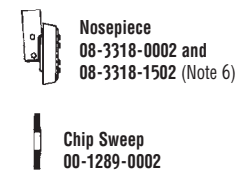
6" Plugging Machine Assembly 08-3500-0600

Includes items below



Standard Plugging Head Assembly 08-3318-0000

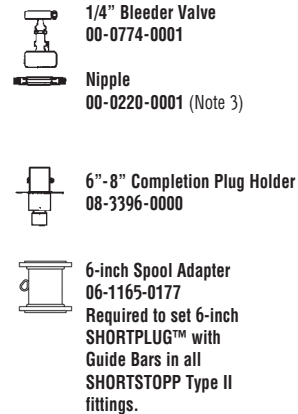
Includes items below



Sealing Element Not Included (Note 6)

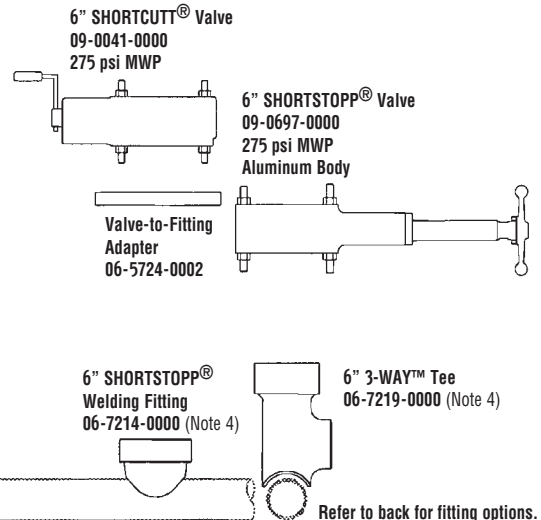
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 2)

See Sight Glass Data Sheet for details



Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; 200 psi at 100°F or 120 psi at 180°F, with special cups/nosepieces (see chart at right).
- Sight Glass Kit** - Requires the use of the 6" T-203 Tapping Adapter. Part No. 06-1543-0000.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 6" x 8" **Control Bar Assembly** 08-3388-0000 may also be used.
- Sealing Elements** - Refer to chart at right.

Pipe ID	60 psi MWP Sealing Element	60 psi MWP Nosepiece	Pipe ID	200 psi MWP Sealing Element	200 psi MWP Nosepiece
6.250-6.311	08-0502-0006-01	08-3318-1502	6.250-6.311	08-3428-0006-01	08-3318-1502
6.188-6.249	08-0502-0006-02	08-3318-1502	6.187-6.249	08-3428-0006-02	08-3318-1502
6.062-6.310	08-0114-0006-00	08-3318-0002	6.062-6.124	08-3428-0006-04	08-3318-1502
5.750-5.811	08-0114-0006-04	08-3318-0002	5.750-5.811	08-3427-0006-04	08-3318-0002

Consult factory for unlisted pipe ID.

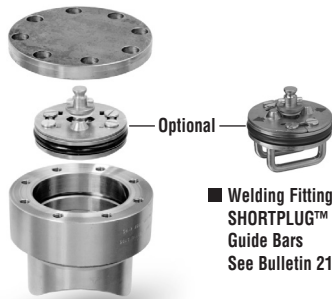


T.D. Williamson, Inc.

Data Sheet No. **SSII-6**

Fittings

Tapping and **SHORTSTOPP**® II Plugging Machine 6" Gas Main



■ Welding Fitting and **SHORTPLUG**™ with Guide Bars
See Bulletin 2100.013

■ Welding Fitting
See Bulletin 2100.003



■ Spherical 3-WAY™ Tee and **SHORTPLUG**™ with Guide Bars
See Bulletin 2100.014

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



■ 3-WAY™ Tee and **SHORTPLUG**™ with Guide Bars
See Bulletin 2100.012

■ 3-WAY™ Tee
See Bulletin 2100.002



■ Mechanical **SHORTSLEEVE**™ Fitting
See Bulletin 2110.001

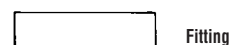
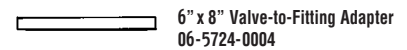


■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011



■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: If you already have 8" **SHORTSTOPP**® plugging equipment, the additional accessories shown below are all you need to plug 6" mains (plus Welding Fittings).



6" Welding Fitting includes: cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring.
Stock No. 06-5713-0000

■ Note: Consult your TDW representative for additional fitting options.

Data Sheet No. **SSII-6**

SHORTSTOPP® II 8" Size-on-Size Plugging Machine

(1-5/8" Dia. Control Bar)



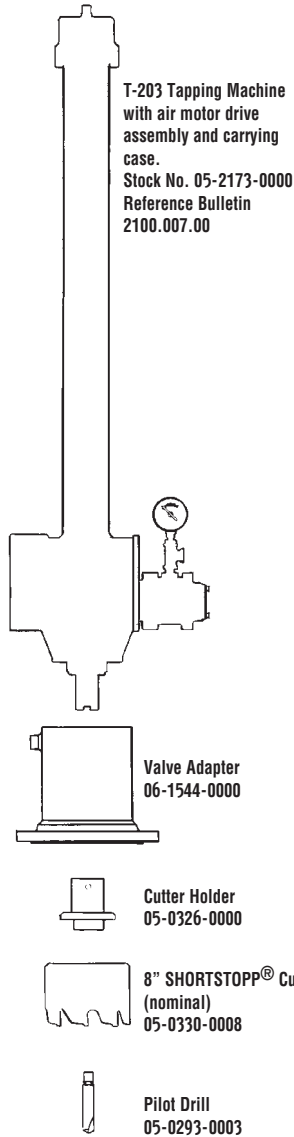
T.D. Williamson, Inc.

Data Sheet No. **SSII-8**

Date: September 2004

Supersedes: December 2003

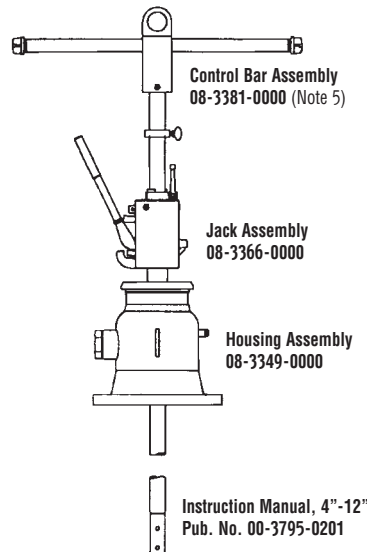
Tapping



Plugging

8" Plugging Machine Assembly 08-3500-0800

Includes items below



Standard Plugging Head Assembly 08-3320-0000

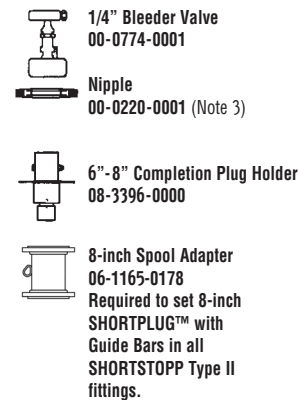
Includes items below



Sealing Element Not Included (Note 6)

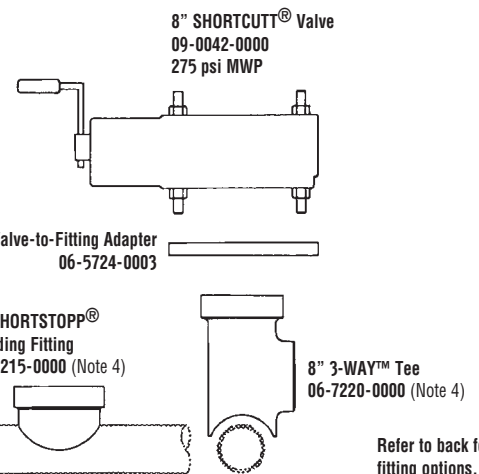
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 2)

See Sight Glass Data Sheet for details



Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; 150 psi at 100°F or 120 psi at 180°F, with special cups/nosepieces (see chart at right).
- Sight Glass Kit** - Requires the use of the 8" T-203 Tapping Adapter. Part No. 06-1544-0000.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 6" x 8" Control Bar Assembly** may also be used.
- Sealing Elements** - Refer to chart at right.

Pipe ID	60 psi MWP Sealing Element	60 psi MWP Nosepiece	150 psi MWP Sealing Element	150 psi MWP Nosepiece
8.250-8.280	08-1719-0008-01	08-3320-1502	8.281-8.311	08-3428-0008-01
8.188-8.249	08-1719-0008-02	08-3320-1502	8.250-8.280	08-3428-0008-02
7.938-8.281	08-0114-0008-00	08-3320-0002	7.981-8.000	08-3427-0008-00
7.625-7.687	08-0114-0008-05	08-3320-0002	7.625-7.687	08-3427-0008-06

Consult factory for unlisted pipe ID.



T.D. Williamson, Inc.

Data Sheet No. SSII-8

Fittings

Tapping and SHORTSTOPP® II Plugging Machine 8" Gas Main



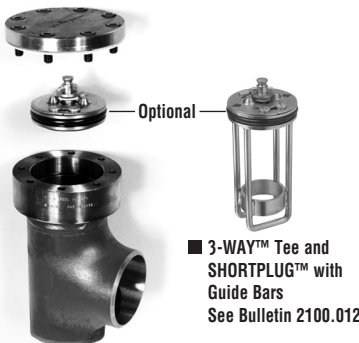
■ Welding Fitting and SHORTPLUG™ with Guide Bars
See Bulletin 2100.013

■ Welding Fitting
See Bulletin 2100.003



■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.014

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



■ 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.012

■ 3-WAY™ Tee
See Bulletin 2100.002



■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001

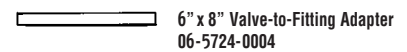


■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011

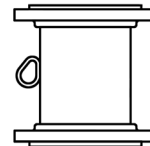


■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: If you already have 8" SHORTSTOPP® II plugging equipment, the additional accessories shown below are all that are needed to plug 6" mains (plus Welding Fittings).



6" x 8" Valve-to-Fitting Adapter
06-5724-0004



8-inch Spool Adapter
06-1165-0178
Required to set 8-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP Type II fittings.



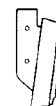
6" SHORTSTOPP® Cutter (nominal)
05-0446-0006



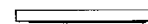
Pilot Drill
05-0293-0002



Completion Plug Holder
08-3396-0000



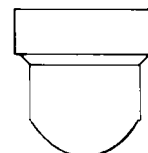
6" Plugging Head with Sealing Cup and Chip Sweep
08-3318-0000



Cover Flange



Completion Plug



Fitting

6" Welding Fitting includes: cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring.
Stock No. 06-5713-0000

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 10" Size-on-Size Plugging Machine

(2-1/2" Dia. Control Bar)

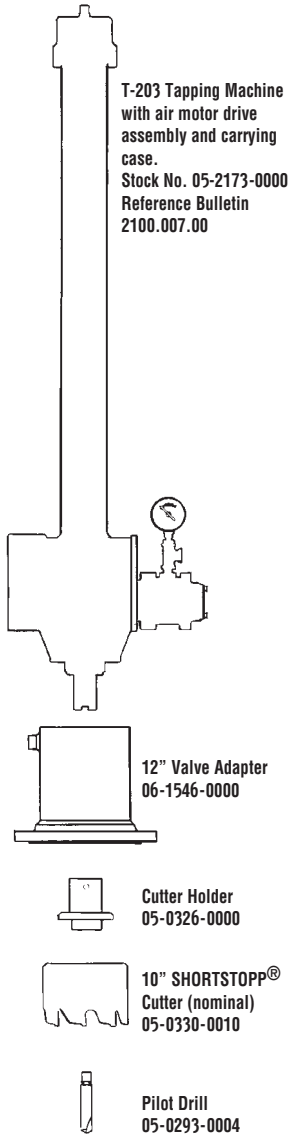


T.D. Williamson, Inc.

Data Sheet No. **SSII-10**
Date: September 2004
Supersedes: December 2003

Data Sheet No. SSII-10

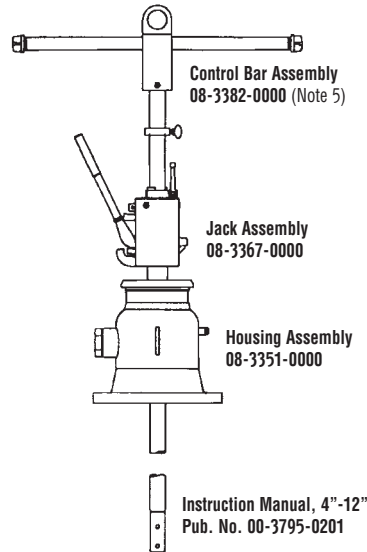
Tapping



Plugging

10" Plugging Machine Assembly 08-3500-1000

Includes items below



Standard Plugging Head Assembly 08-3321-0000

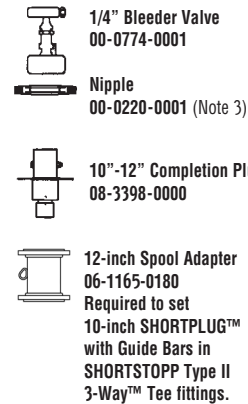
Includes items below



Sealing Element Not Included (Note 6)

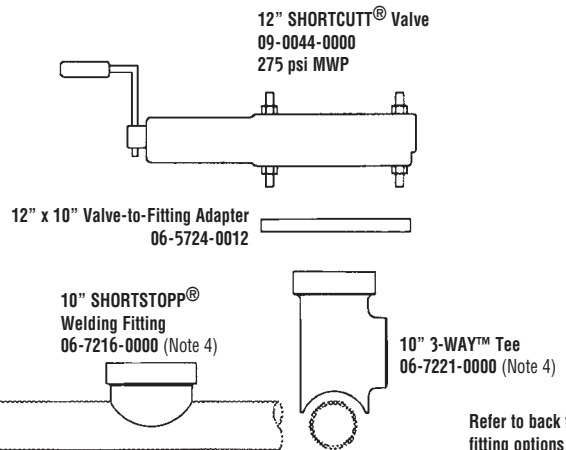
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 2)

See Sight Glass Data Sheet for details



Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; 150 psi at 100°F or 120 psi at 180°F, with special cups/nosepieces (see chart at right).
- Sight Glass Kit** - Requires the use of the 12" T-203 Tapping Adapter. Part No. 06-1546-0000.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 8" x 12" Control Bar Assembly** Part No. 08-3389-0000 may also be used.
- Sealing Elements** - Refer to chart at right.

Pipe ID	60 psi MWP Sealing Element	60 psi MWP Nosepiece	Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
10.312-10.374	08-1719-0010-01	08-3321-1502	10.312-10.374	08-3428-0010-01	08-3321-1502
10.250-10.311	08-1719-0010-02	08-3321-1502	10.250-10.311	08-3428-0010-02	08-3321-1502
9.938-10.375	08-0114-0010-00	08-3321-0002	10.000-10.062	08-3427-0010-00	08-3321-0002
9.750-9.811	08-0114-0010-03	08-3321-0002	9.750-9.811	08-3427-0010-04	08-3321-0002

Consult factory for unlisted pipe ID.

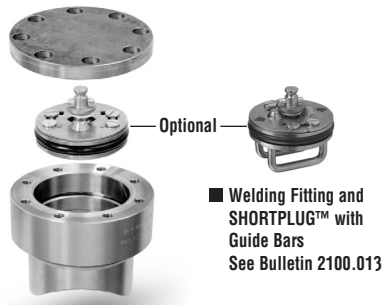


T.D. Williamson, Inc.

Data Sheet No. SSII-10

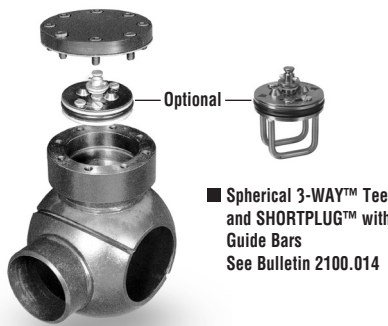
Fittings

Tapping and SHORTSTOPP® II Plugging Machine 10" Gas Main



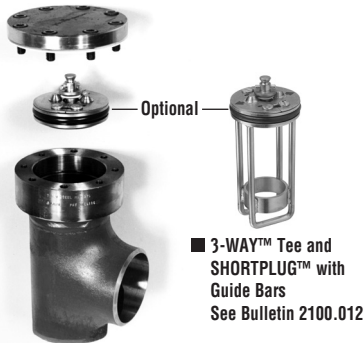
Optional
■ Welding Fitting and SHORTPLUG™ with Guide Bars
See Bulletin 2100.013

■ Welding Fitting
See Bulletin 2100.003



Optional
■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.014

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



Optional
■ 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.012

■ 3-WAY™ Tee
See Bulletin 2100.002



■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001

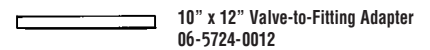


■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011

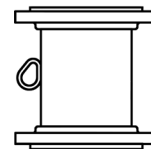


■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: If you already have 12" SHORTSTOPP® II plugging equipment, the additional accessories shown below are all that are needed to plug 10" mains (plus Welding Fittings).



10" x 12" Valve-to-Fitting Adapter
06-5724-0012



12-inch Spool Adapter
06-1165-0180
Required to set 10-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-Way™ Tee fittings.



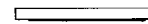
10" SHORTSTOPP® Cutter (nominal)
05-0446-0010



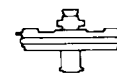
Pilot Drill
05-0293-0004



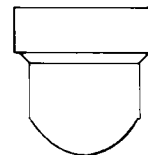
10" Plugging Head, Sealing Cup and Chip Sweep
08-3321-0000



Cover Flange



Completion Plug



Welding Fitting

10" Welding Fitting includes: cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring.
Stock No. 06-7216-0000

10" SHORTCUTT® Valve not available. The 10" SHORTSTOPP® II Plugging Machine is equipped with 12" housing for use with 12" SHORTCUTT® Valve and 10" x 12" adapter.

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 12" Size-on-Size Plugging Machine

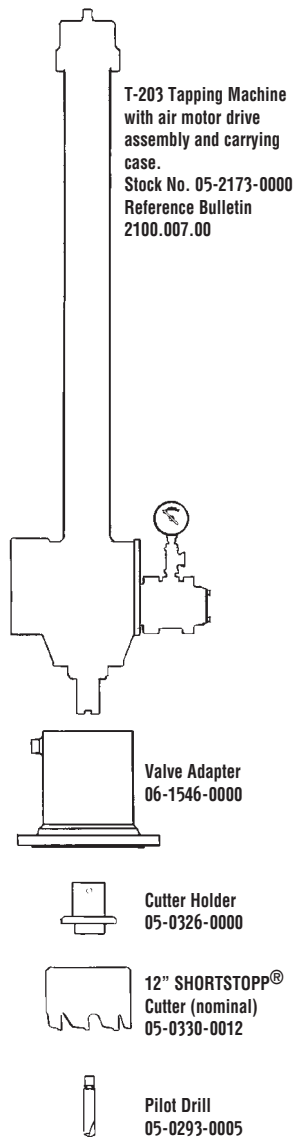
(2-1/2" Dia. Control Bar)



T.D. Williamson, Inc.

Data Sheet No. **SSII-12**
Date: September 2004
Supersedes: December 2003

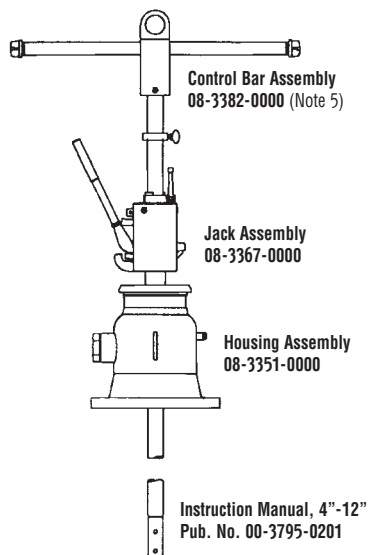
Tapping



Plugging

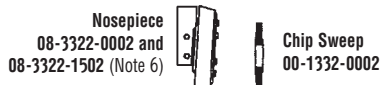
12" Plugging Machine Assembly 08-3500-1200

Includes items below



Standard Plugging Head Assembly 08-3322-0000

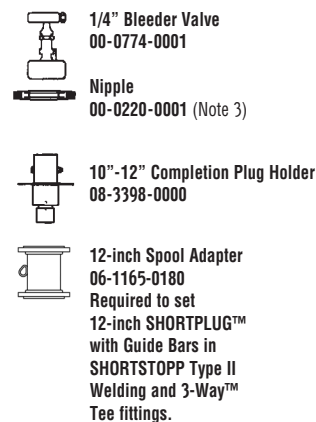
Includes items below



Sealing Element Not Included (Note 6)

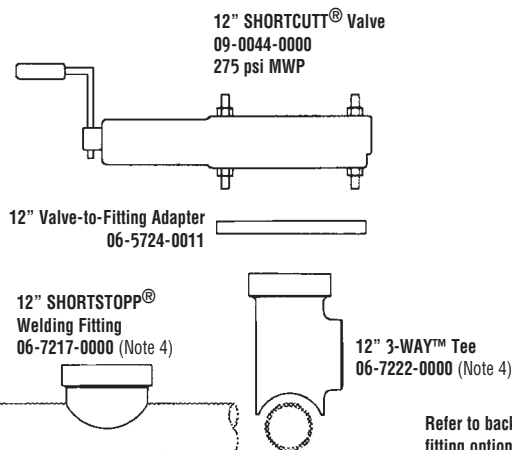
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 2)

See Sight Glass Data Sheet for details



Notes

- Maximum Working Pressure and Temperature:** 60 psi at 180°F with standard plugging head components; 150 psi at 100°F or 120 psi at 180°F, with special cups/nosepieces (see chart at right).
- Sight Glass Kit** - Requires the use of the 12" T-203 Tapping Adapter. Part No. 06-1546-0000.
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 8" x 12" Control Bar Assembly** Part No. 08-3389-0000 may also be used.
- Sealing Elements** - Refer to chart at right.

Pipe ID	60 psi MWP Sealing Element	60 psi MWP Nosepiece	Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
12.250-12.311	08-1719-0012-02	08-3322-1502	12.250-12.311	08-3428-0012-02	08-3322-1502
12.062-12.124	08-1719-0012-05	08-3322-1502	12.000-12.061	08-3428-0012-06	08-3322-1502
11.938-12.375	08-0114-0012-00	08-3322-0002	11.938-11.999	08-3427-0012-00	08-3322-0002
11.750-11.811	08-0114-0012-03	08-3322-0002	11.750-11.811	08-3427-0012-03	08-3322-0002

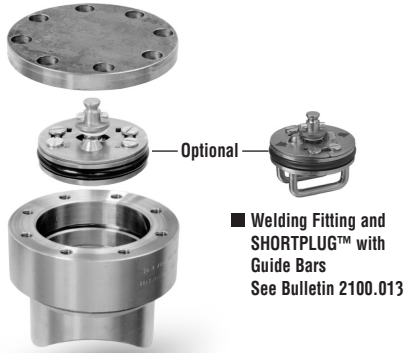
Consult factory for unlisted pipe IDs.



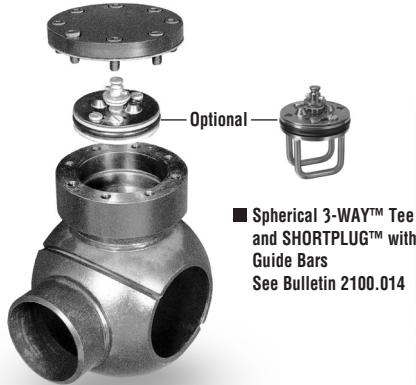
T.D. Williamson, Inc.

Data Sheet No. SSII-12

Fittings



■ Welding Fitting and SHORTPLUG™ with Guide Bars
See Bulletin 2100.013



■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.014



■ 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.012

■ Welding Fitting
See Bulletin 2100.003

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007

■ 3-WAY™ Tee
See Bulletin 2100.002



■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001



■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011



■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 3" x 4" Reduced Branch Plugging Machine

(1" Dia. Control Bar)



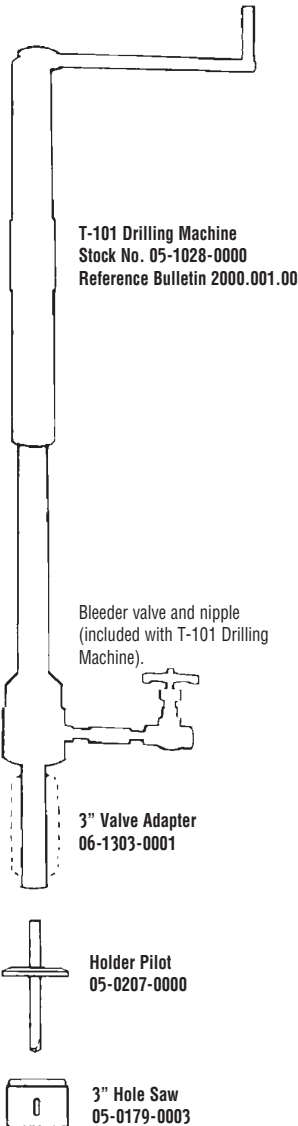
T.D. Williamson, Inc.

Data Sheet No. SSII-3x4

Date: September 2004

Supersedes: December 2003

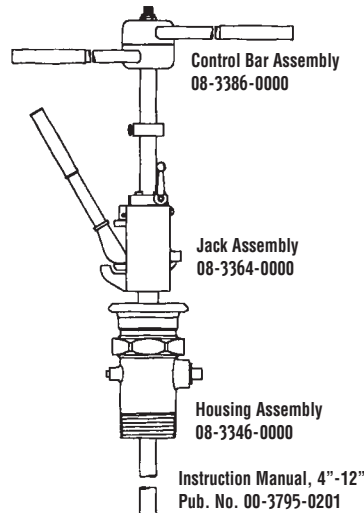
Tapping



Plugging

3" x 4" Plugging Machine Assembly 08-3501-0304

Includes items below



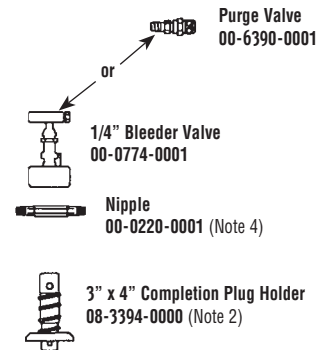
Standard Plugging Head Assembly 08-3326-0000

Includes items below



Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3423-0000-03

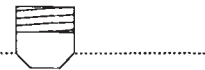
See Sight Glass Data Sheet for details

Carrying case for plugging machine
sold separately 08-2481-0004

3" SHORTCUTT® Valve
09-0759-0000
500 psi MWP



3" x 4" SHORTSTOPP®
Welding Fitting
26-0324-0000 (Note 5)



3" x 4" 3-WAY™ Tee
26-0325-0000-01
Standard Outlet
26-0325-0000-02
Thinwall Outlet
(Note 3 and Note 5)

Refer to back for fitting options.

Notes

- Maximum Working Pressure and Temperature:** 150 psi at 100°F or 120 psi at 180°F. Special cups and/or nosepieces may be required (see chart at right). Pressure rating may be limited by valve selection.
- Solid Completion Plug Holder** - 08-3393-0000
- 3" Plugging Head Kit** adapts folding head pluggers to plug 3" size-on-size lines and 3-WAY™ Tee Outlet. Kit 08-3421-0000 includes Plugging Head Assembly 08-3314-0000, chip sweep, and control bar adapter.
- Bleeder valve and nipple** are provided with TDW Drilling

Machines.

- Fitting** - Includes threaded completion plug and cap.
- Sealing Elements** - Refer to chart at right.

Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
4.188-4.260	08-2332-0004-00	08-3326-0004
4.062-4.125	08-2332-0004-01	08-3326-0004
3.938-4.026	08-2332-0004-02	08-3326-0004
3.750-3.826	08-2332-0004-03	08-3326-0104

Consult factory for unlisted Pipe ID's.



T.D. Williamson, Inc.

Data Sheet No. **SSII-3x4**

Fittings

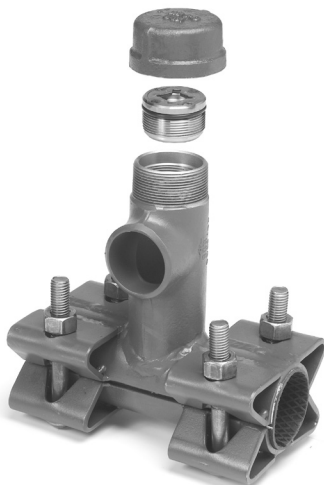
Tapping and **SHORTSTOPP® II** Plugging Machine 3" x 4" Gas Main



■ **Welding Fitting**
See Bulletin 2100.003.00



■ **3-WAY™ Tee**
See Bulletin 2100.002.00



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 4" x 6" Reduced Branch Plugging Machine

(1-1/4" Dia. Control Bar)



T.D. Williamson, Inc.

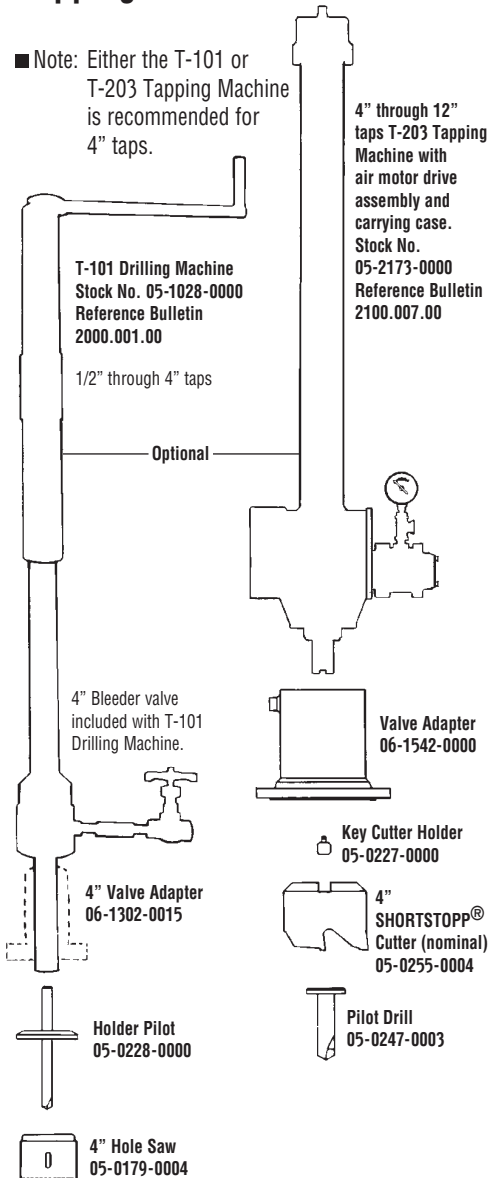
Data Sheet No. SSII-4x6

Date: September 2004

Supersedes: December 2003

Tapping

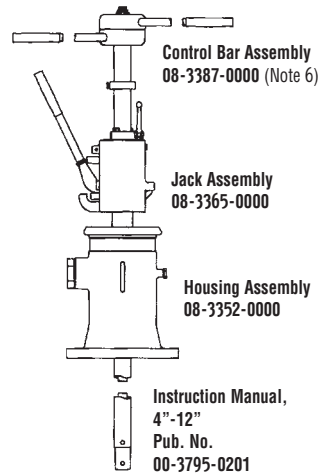
■ Note: Either the T-101 or T-203 Tapping Machine is recommended for 4" taps.



Plugging

4" x 6" Plugging Machine Assembly 08-3501-0406 (with 6" Housing 08-3511-0406)

Includes items below



Standard Plugging Head Assembly 08-3327-0000

Includes items below



Chip Sweep (see Note 6) or Sight Glass
Sealing Cup Not Included (Note 7)

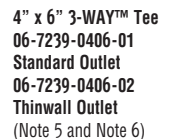
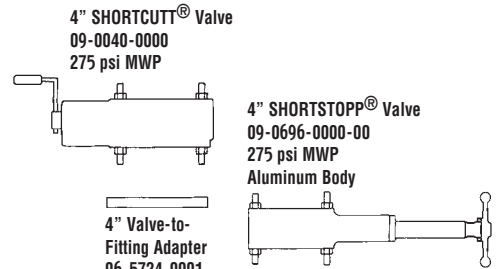
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-01 (Note 3)

See Sight Glass Data Sheet for details



6" Steel Pipe

Refer to back for fitting options.

Notes

- Maximum Working Pressure and Temperature:** 150 psi at 100°F or 120 psi at 180°F. Special cups and/or nosepieces may be required (see chart at right).
- Use 4" x 6" Pilot Drill** when making these reduced branch taps: use 05-0228-0000 with T-101 and 05-0247-0004 with 360, T-203. Special Tapping Adapter 06-8872-0005 required with T-101 when using with 6" valve.
- Sight Glass Kit** - Requires the use of the 4" T-203 Tapping Adapter. Part No. 06-1542-0000
- Bleeder valve and nipple** are provided with TDW Drilling

- Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 4" Plugging Head Kit** adapts 1-1/4" control bar to plug 4" size-on-size lines and 3-WAY™ Tee Outlet. Kit 08-3419-0000 includes Plugging Head Assembly 08-3316-0000, chip sweep, control bar adapter and spacer.
- Sealing Elements** - Refer to chart at right.

Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
6.250-6.357	08-2332-0006-00	08-3327-1504
6.125-6.188	08-2332-0006-01	08-3327-1504
5.938-6.065	08-2332-0006-02	08-3327-0004
5.750-5.875	08-2332-0006-03	08-3327-0004

Consult factory for unlisted pipe IDs.



T.D. Williamson, Inc.

Data Sheet No. **SSII-4x6**

Fittings

Tapping and **SHORTSTOPP® II** Plugging Machine 4" x 6" Gas Main



■ **Welding Fitting**
See Bulletin 2100.003.00



■ **3-WAY™ Tee**
See Bulletin 2100.002.00



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 6" x 8" Reduced Branch Plugging Machine

(1-5/8" Dia. Control Bar)



T.D. Williamson, Inc.

Data Sheet No. SSII-6x8

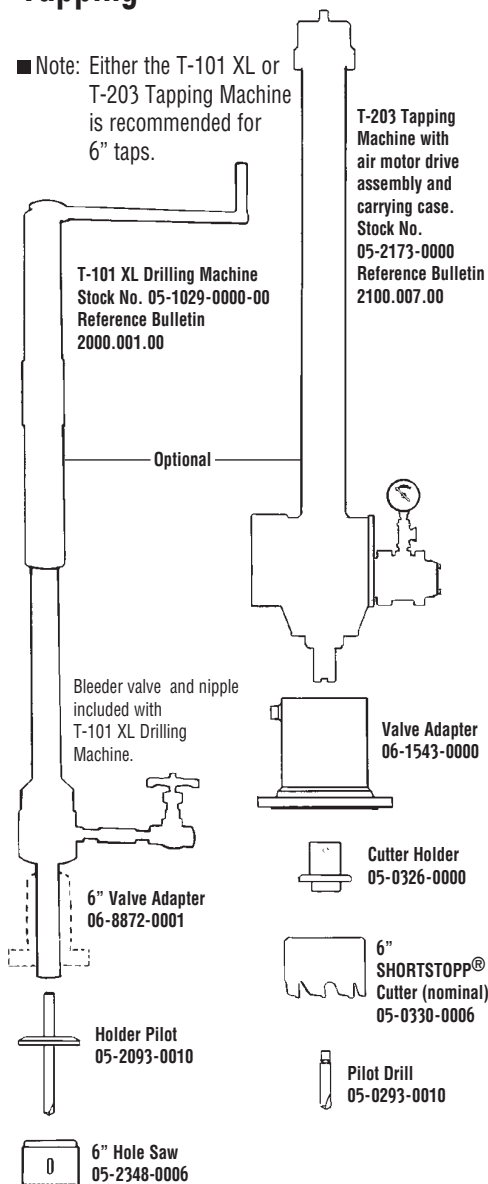
Date: September 2004

Supersedes: December 2003

Data Sheet No. SSII-6x8

Tapping

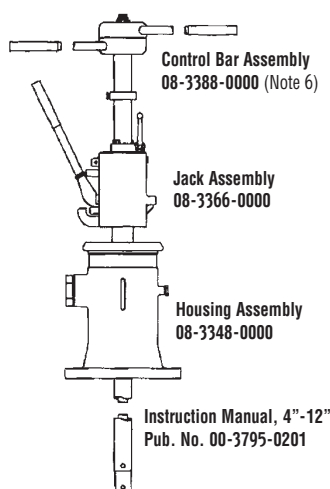
■ Note: Either the T-101 XL or T-203 Tapping Machine is recommended for 6" taps.



Plugging

6" x 8" Plugging Machine Assembly 08-3501-0608

Includes items below



Standard Plugging Head Assembly 08-3329-0000

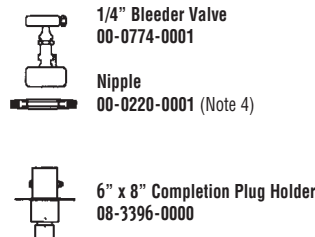
Includes items below



Chip Sweep (see Note 6) or Sight Glass
Sealing Element Not Included (Note 7)

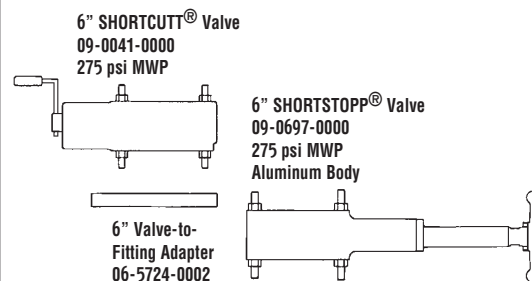
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 3)

See Sight Glass Data Sheet for details



6" x 8" SHORTSTOPP® Welding Fitting
06-9542-0000 (Note 5)

6" x 8" 3-WAY™ Tee
06-7240-0608-01
Standard Outlet
06-7240-0608-02
Thinwall Outlet
(Note 5 and Note 6)

8" Steel Pipe

Refer to back for fitting options.

Notes

- Maximum Working Pressure and Temperature:** 150 psi at 100°F or 120 psi at 180°F. Special cups and/or nosepieces may be required (see chart at right).
- Use 6" x 8" Pilot Drill** 05-0293-0010 when making these reduced branch taps.
- Sight Glass Kit** - Requires the use of the 6" T-203 Tapping Adapter. Part No. 06-1543-0000
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange

- included.
- Control bar** can be used with 6" plugging head 08-3318-0000 (includes chipsweep) to plug 6" size-on-size lines and 3-WAY™ Tee Outlet.
- Sealing Elements** - Refer to chart at right.

Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
8.250-8.329	08-2332-0008-00	08-3329-1504
8.062-8.188	08-2332-0008-01	08-3329-1504
7.875-8.000	08-2332-0008-02	08-3329-0004
7.625-7.812	08-2332-0008-03	08-3329-0004

Consult factory for unlisted Pipe ID's.



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Data Sheet No. **SSII-6x8**

Fittings

Tapping and **SHORTSTOPP® II** Plugging Machine 6" x 8" Gas Main



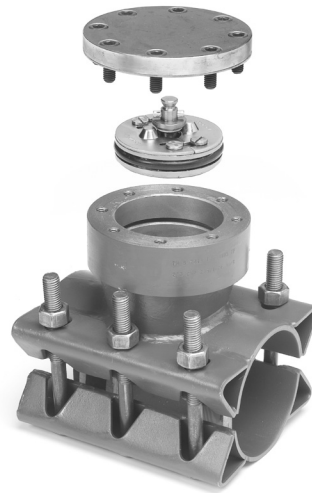
■ **Welding Fitting**
See Bulletin 2100.003.00



■ **3-WAY™ Tee**
See Bulletin 2100.002.00



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** Consult your TDW representative for additional fitting options.

SHORTSTOPP® II 8" x 10" Reduced Branch Plugging Machine

(2-1/2" Dia. Control Bar)



T.D. Williamson, Inc.

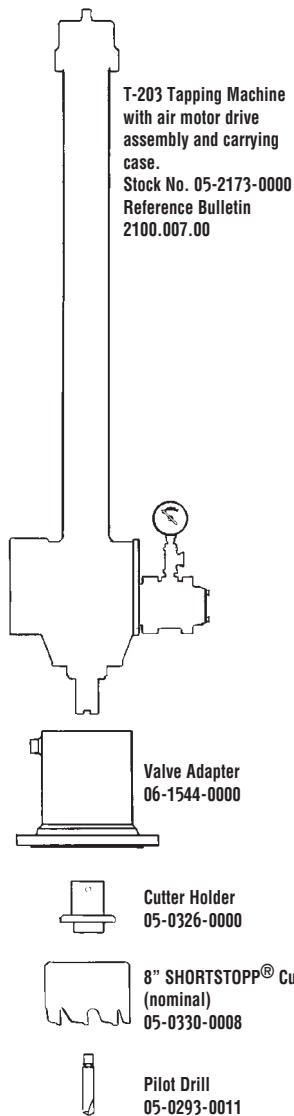
Data Sheet No. SSII-8x10

Date: September 2004

Supersedes: December 2003

Data Sheet No. SSII-8x10

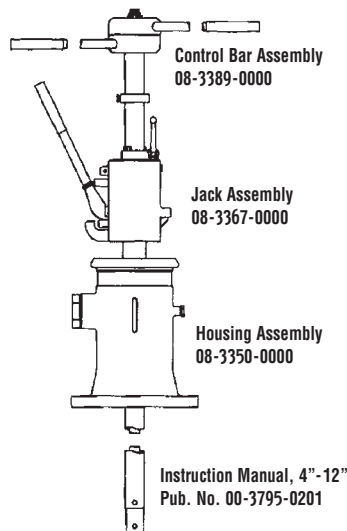
Tapping



Plugging

8" x 10" Plugging Machine Assembly 08-3501-0810

Includes items below



Standard Plugging Head Assembly 08-3330-0000

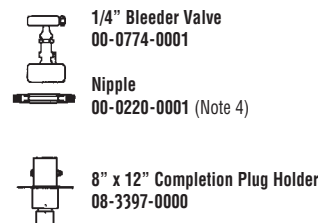
Includes items below



Chip Sweep (see Note 6) or Sight Glass
Sealing Element Not Included (Note 8)

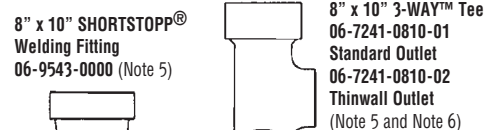
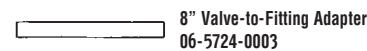
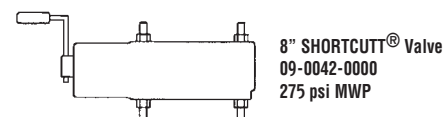
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 3)

See Sight Glass Data Sheet for details



10" Steel Pipe

Refer to back for fitting options.

Notes

- Maximum Working Pressure and Temperature:** 150 psi at 100°F or 120 psi at 180°F. Special cups and/or nosepieces may be required (see chart at right).
- Use 8" x 10" Pilot Drill** 05-0293-0011 for **reduced branch taps**. With 660/760 Tapping Machine use 8" x 12" Tapping Adapter 06-6102-0017.
- Sight Glass Kit** - Requires the use of the 8" T-203 Tapping Adapter. Part No. 06-1544-0000
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 8" Plugging Head Kit** adapts folding head pluggers to plug 8" size-on-size lines and 3-WAY™ Tee Outlet. Kit 08-3420-0000 includes Plugging Head Assembly 08-3320-0000, chip sweep, and adapter.
- With an **8" x 12" Plugging Head**, Nosepiece and Cup, 12" pipe can be plugged. (See 8" x 12" Data Sheet.)
- Sealing Elements** - Refer to chart at right.

Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
10.250-10.375	08-2332-0010-00	08-3330-1504
10.062-10.188	08-2332-0010-01	08-3330-1504
9.938-10.020	08-2332-0010-02	08-3330-0004
9.688-9.875	08-2332-0010-03	08-3330-0004

Consult factory for unlisted Pipe ID's.



T.D. Williamson, Inc.

Data Sheet No. SSII-8x10

Fittings

Tapping and SHORTSTOPP® II Plugging Machine 8" x 10" Gas Main



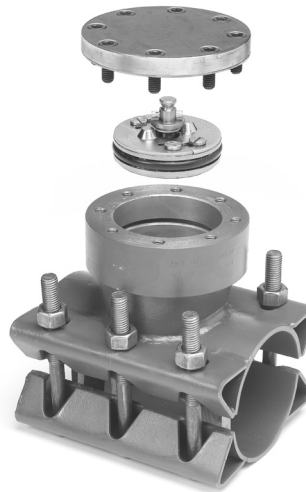
■ Welding Fitting
See Bulletin 2100.003.00



■ 3-WAY™ Tee
See Bulletin 2100.002.00



■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011



■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: Consult your TDW representative for additional fitting options.

Data Sheet No. SSII-8x10

SHORTSTOPP® II 8" x 12" Reduced Branch Plugging Machine

(2-1/2" Dia. Control Bar)



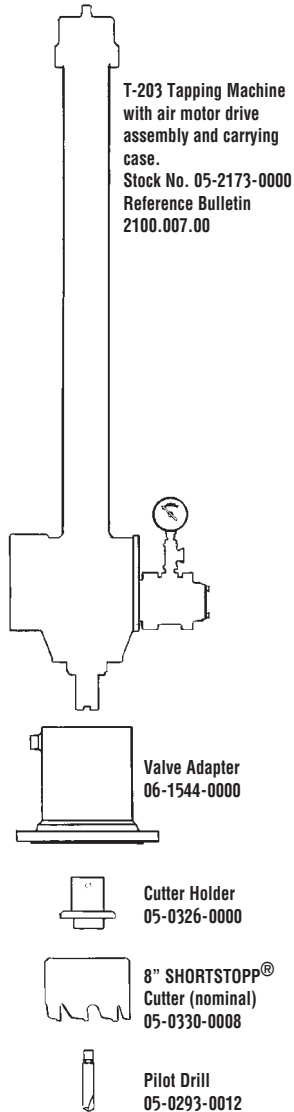
T.D. Williamson, Inc.

Data Sheet No. SSII-8x12

Date: September 2004

Supersedes: December 2003

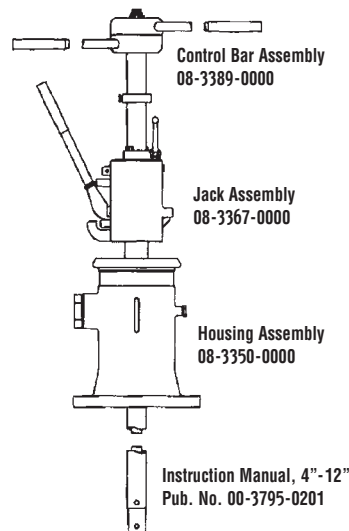
Tapping



Plugging

8" x 12" Plugging Machine Assembly 08-3501-0812

Includes items below



Standard Plugging Head Assembly 08-3331-0000

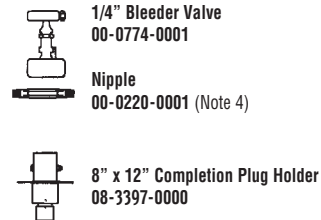
Includes items below



Chip Sweep (see Note 6) or Sight Glass
Sealing Element Not Included (Note 8)

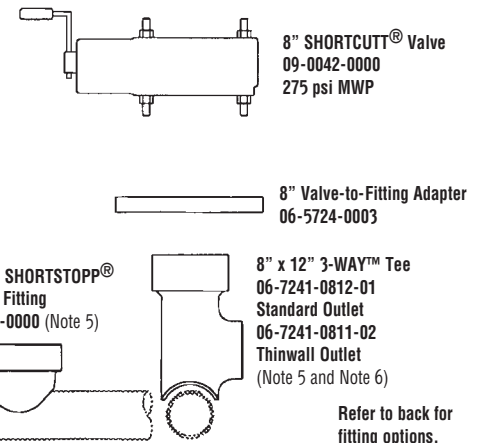
Bleeder Valve Accessory

Purchased separately



Sight Glass Kit 08-3424-0000-02 (Note 3)

See Sight Glass Data Sheet for details



Notes

- Maximum Working Pressure and Temperature:** 150 psi at 100°F or 120 psi at 180°F. Special cups and/or nosepieces may be required (see chart at right).
- Use 8" x 12" Pilot Drill** 05-0293-0012 and **8" x 10/12" Tapping Adapter** 06-6102-0017 when making these reduced branch taps, with 660 or 760 TM.
- Sight Glass Kit** - Requires the use of the 8" T-203 Tapping Adapter. Part No. 06-1544-0000
- Bleeder valve and nipple** are provided with TDW Drilling Machines.
- Fitting** - Leaf-type completion plug and blind flange included.
- 8" Plugging Head Kit** adapts folding head plugging to plug 8" size-on-size lines and 3-WAY™ Tee Outlet. Kit 08-3420-0000 includes Plugging Head Assembly 08-3320-0000, chip sweep, and adapter.
- With an **8" x 10" Plugging Head Assembly** Nosepiece and Cups, 10" pipe can be plugged. (See 8" x 10" Data Sheet.)
- Sealing Elements** - Refer to chart at right.

Pipe ID	150 psi MWP Sealing Element	150 psi MWP Nosepiece
12.250-12.390	08-2332-0012-00	08-3331-1504
12.062-12.188	08-2332-0012-01	08-3331-1504
11.875-12.000	08-2332-0012-02	08-3331-0004
11.688-11.812	08-2332-0012-03	08-3331-0004

Consult factory for unlisted Pipe ID's.



T.D. Williamson, Inc.

Data Sheet No. SSII-8x12

Fittings

Tapping and SHORTSTOPP® II Plugging Machine 8" x 12" Gas Main



■ Welding Fitting
See Bulletin 2100.003.00



■ 3-WAY™ Tee
See Bulletin 2100.002.00



■ Branch Type II 3-WAY™ Tee
See Bulletin 2100.011



■ Branch Type II Plugging Fitting
See Bulletin 2100.010

■ Note: Consult your TDW representative for additional fitting options.

Data Sheet No. SSII-8x12

SHORTSTOPP® II Plugging System for 4" + 6" PE Applications (1" Dia. Control Bar)



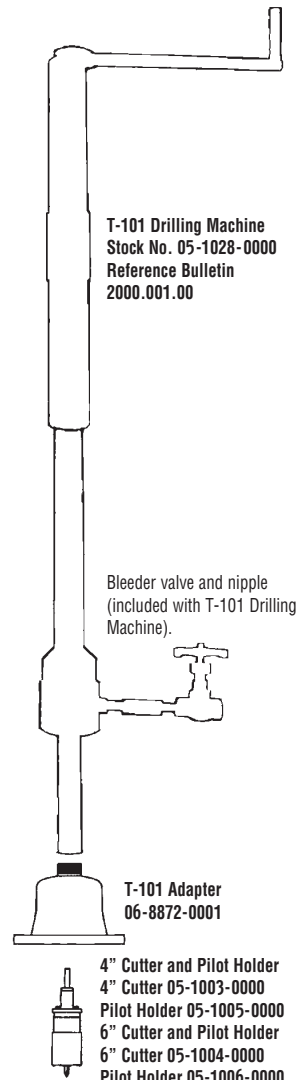
T.D. Williamson, Inc.

Data Sheet No. **SSII-4x6PE**

Date: September 2004

Supersedes: April 2000

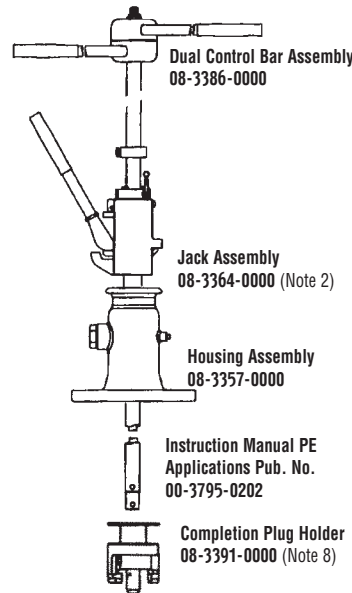
Tapping



Plugging

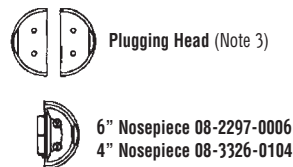
4" + 6" PE Plugging Machine Assembly 08-3503-0646 (Note 7)

Includes items below



6" PE Plugging Head Assembly 08-3333-0000

Includes items below



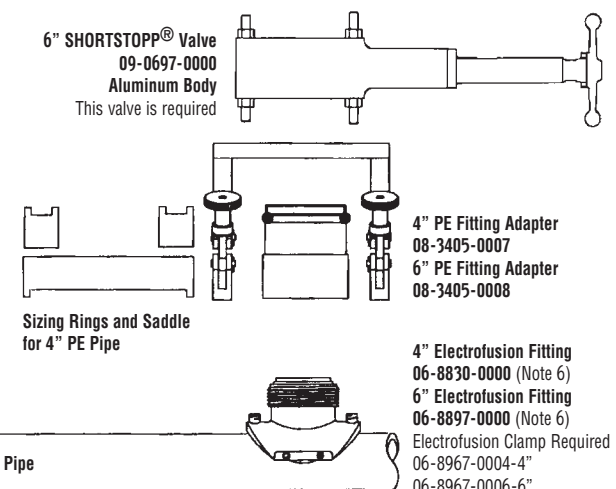
Sealing Element Not Included

Bleeder Valve Accessory

Purchased separately



4" + 6" Pipe Support Assembly 08-3405-0000



4" or 6" SDR 11 PE Pipe

Notes

1. **Maximum Working Pressure and Temperature:** 100 psi at 100°F.
2. **Plugging Machine Assembly without Jack** is available for 60 psi or less. Part No. 08-3507-0646, or 0606, or 0604 (See note 7) (Includes control bar lock only.)
3. **Plugging Head** components, less nosepieces and sealing elements, are the same as those included in 3" x 4" steel plugging head assembly, Part No. 08-3326-0000.
4. **PE Adapter Kit 08-3416-0000** is available for **converting 3" x 4" steel plugging equipment** for use on polyethylene pipe. Kit includes Plugging Machine Assembly 08-3503-0646 except control bar jack, and plugging head components (see Note 3).

Kit with 6" Components only Part No. 08-3415-0000. Kit with 4" Components only

Part No. 08-3414-0000.

5. **Bleeder valve and nipple** are provided with TDW Drilling Machines.
6. **Fitting** - Leaf-type completion plug and cap included. To apply the fitting to the pipe, a Fusion Clamp is required. 4" Fusion Clamp 06-8967-0004. 6" Fusion Clamp 06-8967-0006. Consult your TDW representative for fitting specifications.
7. **6" Plugging Assembly Components only**, Part No. 08-3503-0606. **4" Plugging Assembly Components only**, Part No. 08-3503-0604.
8. See 08-3509-0646 for stand-alone completion machine, including plug holder.

Sight Glass Assembly for 1-1/4" - 3"

Applications 08-3423-0000-SUFFIX



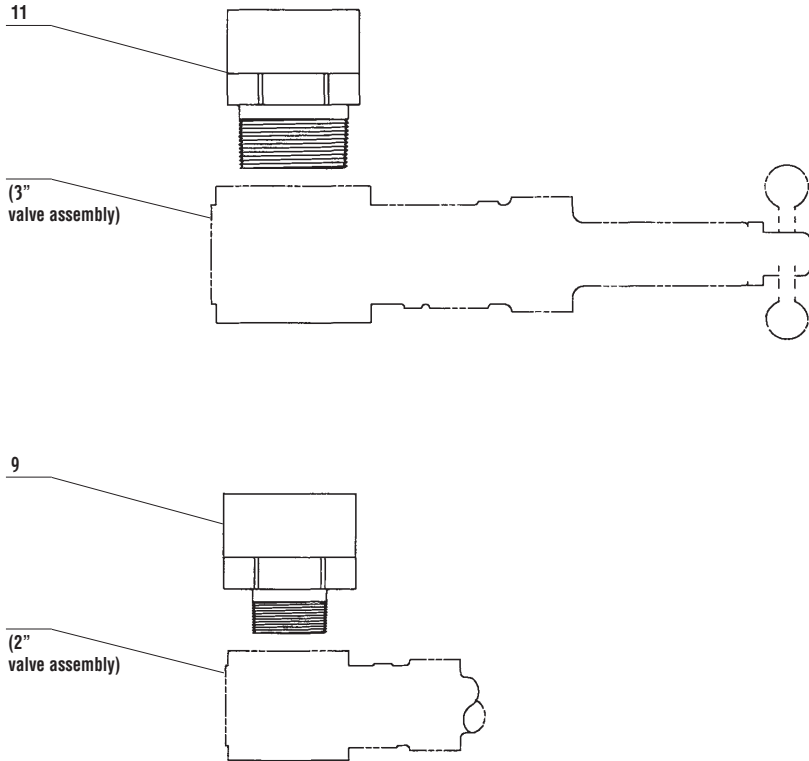
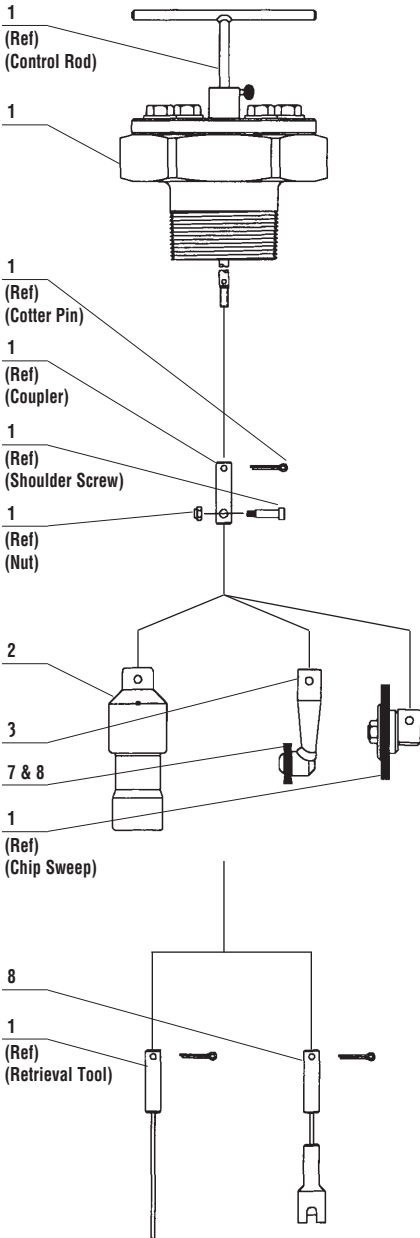
T.D. Williamson, Inc.

Data Sheet No. SG 1-1/4 - 3

Date: September 2004

Cross Indexing No: See Note 5

Supersedes: December 2003



Item	Quantity by Suffix (Note 3)				Description	Part Number
	-03	-02	-01	-00		
1	1	1	1	1	Sight Glass Assembly	08-2340-0000
2	1	1	-	1	Chip Remover Assembly (2"-4")	08-2341-0000
3	-	-	1	1	Plugging Head (1-1/4")	08-0352-0001-01
6	-	-	1	1	Wire Brush (1-1/4")	00-0025-0061
7	-	-	1	1	Button Head Socket Cap Screw	00-0307-0600-05
8	1	1	1	1	Magnet Assembly	08-3426-0000
9	-	1	1	1	Reducer (3" x 2")	08-2340-0004
11	1	-	-	1	Adapter (3")	08-2340-0005

Notes

1. **Maximum Working Pressure:** 500 psi at 100°F
2. **Maximum Working Temperature:** 180°F at 440 psi
3. **Sight Glass Assembly for Inspection/Retrieval with Chip Sweep Only** (no magnets) use Item 1, 08-2340-0000. For 2" applications, Item 9 is also required, 08-2340-0004.
4. **Kit Suffix Number and Pipe Size** - Refer to chart at right.
5. **Cross Indexing Number:** SHORTSTOPP® II Bulletin 2080.001.00; T-101 Bulletin 2000.001.00.

Suffix	Nom. Pipe Size
-00	1-1/4" - 3"
-01	1-1/4" - 1-1/2"
-02	2"
-03	3" - 4"

Sight Glass Assembly for 4" - 12"

Applications 08-3424-0000-SUFFIX



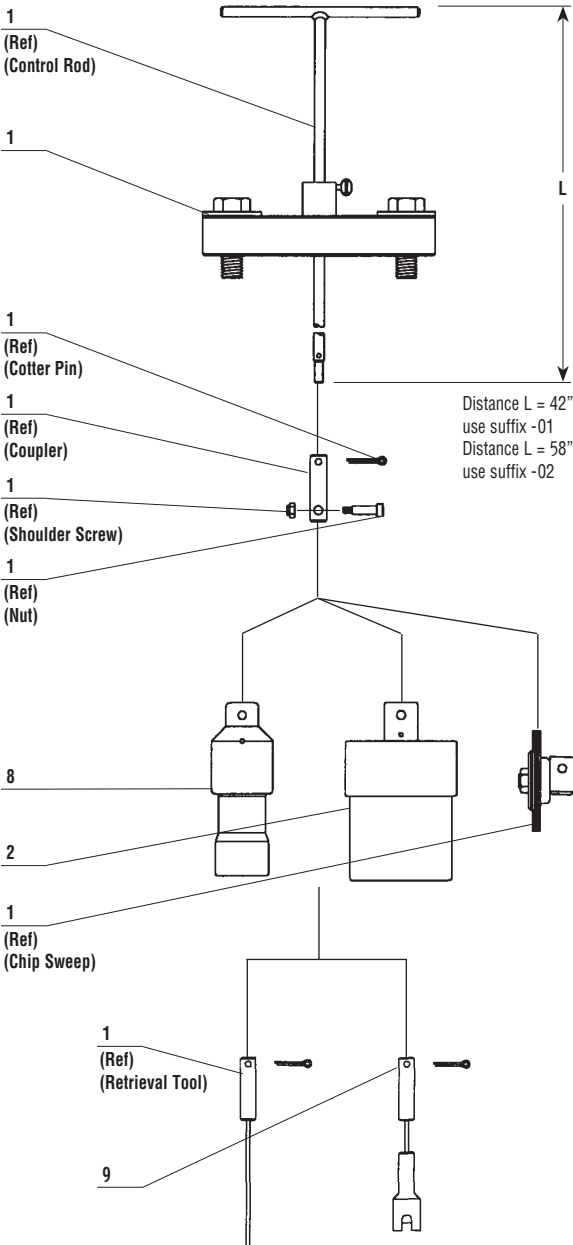
T.D. Williamson, Inc.

Data Sheet No. **SG 4-12**

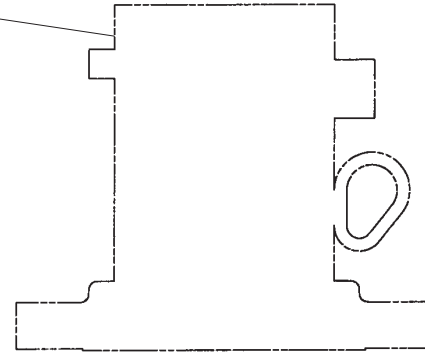
Date: April 2009

Cross Indexing No: See Note 6

Supersedes: September 2004



(T-203
Tapping Adapter)
(note 5)



Item	Quantity by Suffix (Note 3)			Description	Part Number
	-02	-01	-00		
1	-	1	-	Sight Glass Assembly (4"-6")	08-2339-0000-01
1	1	-	1	Sight Glass Assembly (8"-12")	08-2339-0000-02
2	1	-	1	Chip Remover Assembly (6"-12")	08-3422-0000
8	-	1	1	Chip Remover (2"-4")	08-2341-0000
9	1	1	1	Chip Remover (2")	08-3426-0000

Notes

1. **Maximum Working Pressure:** 500 psi at 100°F
2. **Maximum Working Temperature:** 180°F at 440 psi
3. **Sight Glass Assembly for Inspection/Retrieval with Chip Sweep Only** (no magnets) use Item 1 for appropriate size range shown, 08-2339-0000 SUFF. To cover the complete size range 4"-12", use 08-2339-0000-02
4. Sight Glass requires T-203 Tapping Adapter. (not included)
5. **Kit Suffix Number and Pipe Size** - Refer to chart at right.
6. **Cross Indexing Number:** SHORTSTOPP® II Bulletin 2080.001.00; T-203 Bulletin 2100.007.00.

Suffix	Nom. Pipe Size
-00	4"-12"
-01	4"-6"
-02	8"-12"



SHORTSTOPP® 275/500

Plugging System, Sizes: 1-1/2- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2020.002.02

Date: December 2009

Cross Indexing No: n/a

Supersedes: 2020.002.01 (2/00)



■ **SHORTSTOPP®**
Jackscrew Actuator
Plugging: 4" through 12"

■ **SHORTSTOPP®**
Plugging/Completion Machine
Plugging: 1-1/2" through 4"
Completion: 1-1/2" through 12"

Description

The lightweight (37 lbs.) SHORTSTOPP® Plugging/Completion Machine is versatile and easy to operate. When used as a plugging machine, it will plug 1-1/2" at 275 psi and 2" through 4" lines at 500 psi, and can be used on SHORTSTOPP® 300 D Fittings (ASME Class 300). As a completion machine, it has a full range capability of setting 1-1/2" through 12" completion plugs, and will adapt to existing housings in the field.

The SHORTSTOPP® Jackscrew Actuator has the capability of plugging 4" through 12" lines up to 500 psi. This provides an economical way to plug lines that operate in excess of 275 psi. It also adapts to existing housings in the field, and will plug through SHORTSTOPP® 300 D Fittings (ASME Class 300).

Both models provide an efficient and economical means of stopping off mains for repairs, relocations or additions.

Specifications

Maximum working pressure is 500 psi (34.5 bar) @ 100°F (38°C). Maximum working temperature is 180°F (82°C) @ 440 psi (30.3 bar). Pressure ratings are limited to fittings and adapters used.

Patented in the United States and in foreign countries.
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

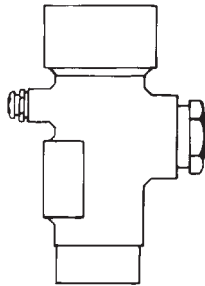


SHORTSTOPP® 275/500 Plugging System

Manual SHORTSTOPP® Plugging/Completion Machine

Size		Actuator Travel		Overall Length		Weight		Rate of Travel/Revolution		Part Number
Inches	DN	Inches	mm	Inches	mm	Lbs.	Kg.	Inches	mm	
1-1/2 to 12	40 to 100	28	711.2	44-1/2	1130.3	39	18	1/8	3.175	07-1034-0000

For 1-1/2" through 4" sizes, the actuator functions as a plugging machine. This same actuator also functions as a completion machine for sizes 1-1/2" through 12".



Typical 1-1/2"-3"
Housing

Housings

Size		Part Number	Max. Working Pressure in psi	Weight	
Inches	DN			Lbs.	Kg.
1-1/2	40	08-1746-0000	500	7	3.2
2	50	08-1746-0000	500	7	3.2
3	80	08-1747-0000	500	10	4.5
4	100	08-1748-0000	275*	28	12.7
4	100	08-2148-0000	500**	36	16.3

* ASME Class 150
** ASME Class 300



Typical 1-1/2"-3"
Plugging Head

Plugging Heads

Size		Part Number	Max. Working Pressure in psi	Weight	
Inches	DN			Lbs.	Kg.
1-1/2	40	08-1741-0000	275	1	.5
2	50	08-2252-0000	500	2	1
3	80	08-2253-0000	500	4	1.8
4	100	08-1744-0000	500	9	4

Sealing Cups Used With 1-1/2" through 4" Plugging Machine



Cup

Size		Part Number	Max. Working in psi	Pipe Dimensions			
Inches	DN			Maximum ID		Minimum ID	
				Inches	mm	Inches	mm
1-1/2	40	08-0114-0015	275	1.625	41	1.562	40
2	50	08-0947-0002	275	2.104	53	2.062	52
2	50	08-3425-0002	500	2.104	53	2.062	52
3	80	08-0947-0003	275	3.187	81	3.062	78
3	80	08-2253-0005	500	3.187	81	3.062	78
4	100	08-0947-0004	275	4.25	108	4.015	102
4	100	08-0036-0005	500	Specify pipe ID when ordering.			



SHORTSTOPP® 275/500 Plugging System

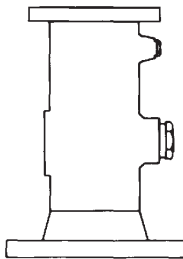
Manual SHORTSTOPP® Jackscrew Actuator

Size		Actuator Travel		Overall Length		Weight		Rate of Travel/Revolution		Part Number
Inches	DN	Inches	mm	Inches	mm	Lbs.	Kg.	Inches	mm	
4 to 12	100 to 300	48	1219	64-1/8	1629	140	64	1/8	3	08-0940-0000

Plugging Housings*

Size		Class 150		Weight		Class 300		Weight	
Inches	DN	Part Number	Max. Working Pressure in psi	Lbs.	Kg.	Part Number	Max. Working Pressure in psi	Lbs.	Kg.
4	100	08-0941-0000	275	48	22	08-2143-0000	500	51	23
6	150	08-0942-0000	275	75	34	08-2144-0000	500	81	37
8	200	08-0943-0000	275	96	43	08-2145-0000	500	141	64
10	250	08-0944-0000	275	156	71	08-2146-0000	500	207	94
12	300	08-0945-0000	275	221	100	08-2147-0000	500	297	135

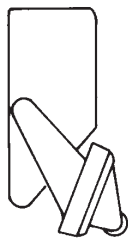
*4" through 12" plugging machine housings also can function as completion housings to set 4" through 12" completion plugs with use of an 06-7264-0000 adapter plate.



Plugging and/or Completion Housing

Plugging Heads

Size		Weight			
Inches	DN	Part Number	Max. Working Pressure in psi	Lbs.	Kg.
4	100	08-1630-0000	500	7	3
6	150	08-1908-0000	500	24	11
8	200	08-1909-0000	500	44	20
10	250	08-1910-0000	500	88	40
12	300	08-1911-0000	500	150	68



Typical 6" Plugging Head



Cup

Sealing Cups Used With 4" through 12" Plugging Machine

Size		Pipe Dimensions		Maximum ID	Minimum ID		
Inches	DN	Part Number	Max. Working in psi			Inches	mm
4	100	08-0947-0004	275	4.25	108	4.015	102
4	100	08-0036-0005	500	Specify pipe ID when ordering.			
6	150	08-0947-0006	275	6.125	156	6.062	154
6	150	08-0948-0006	275	6.312	160	6.187	157
6	150	08-0040-0005	500	Specify pipe ID when ordering.			
8	200	08-0947-0008	275	8	203.2	7.968	202.7
8	200	08-0948-0008	275	8.343	212	8.062	205
8	200	08-0246-0005	500	Specify pipe ID when ordering.			
10	250	08-0947-0010	275	10.125	257	10.015	254
10	250	08-0948-0010	275	10.375	264	10.187	259
10	250	08-0247-0005	500	Specify pipe ID when ordering.			
12	300	08-0947-0012	275	12.343	314	11.937	303
12	300	08-0248-0005	500	Specify pipe ID when ordering.			



SHORTSTOPP® 275/500 Plugging System

SHORTSTOPP® Plugging/Completion Machine — Part Number 07-1034-0000

For 1-1/2" through 4" sizes, the actuator functions as a plugging machine. This same actuator also functions as a completion machine for sizes 1-1/2" through 12". In sizes 1-1/2" through 4", the plugging housings also serve as completion machine housings, without need for adapter plates (see page 2).

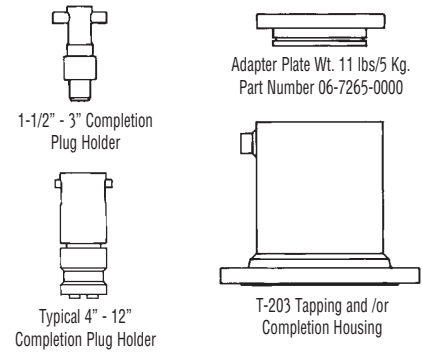
Housings and Adapters

When used with the proper adapter plate, these plugging housings and T-203 adapters can be used with the plugging/completion machine to set 4" through 12" plugs.

1-1/2" through 12" Completion Plug Holders

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
1-1/2 - 3	40 - 80	07-0974-0000	1	.5
4 - 8	100 - 200	07-0334-0000	2	1
10 - 12	250 - 300	07-0335-0000	2-1/2	1.5

NOTE: Completion plug setting pressure limited to pressure rating of completion machine.



Adapter plate only needed when used with the plugging/completion machine (07-1034-0000) on 4" through 12" T-203 Tapping Machine Adapters.

T-203 Tapping Machine Adapters*

Size		Part Number	Class 150 Max. Working in psi	Weight		Part Number	Class 300 Max. Working in psi	Weight	
Inches	DN			Lbs.	Kg.			Lbs.	Kg.
4	100	06-1542-0000	275	29	13	06-7370-0000	720	38	17
6	150	06-1543-0000	275	43	20	06-7371-0000	720	65	30
8	200	06-1544-0000	275	67	30	06-7372-0000	720	95	43
10	250	06-1545-0000	275	95	43	06-7373-0000	720	140	64
12	300	06-1546-0000	275	160	73	06-7374-0000	720	205	93

*T-203 Tapping Machine adapters also function as completion housings to set 4" through 12" completion plugs with use of an 06-7265-0000 adapter plate.

Side Outlet Pluggers — Maximum Working Pressure is 275 psi

1-1/2" through 4" using Plugging/Completion Machine

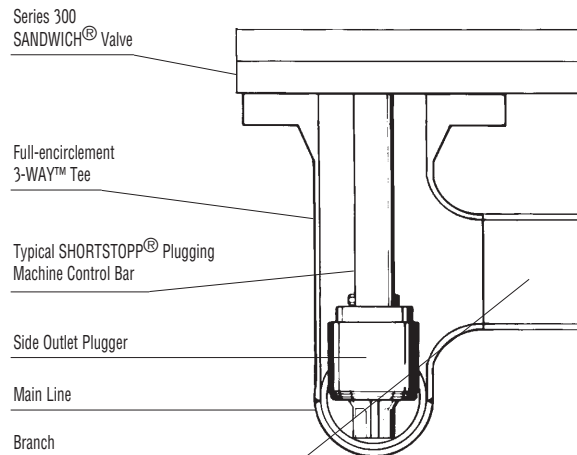
Size		Part Number	Weight		Spare Seals Part Number
Inches	DN		Lbs.	Kg.	
1-1/2	40	08-1871-0000	1.5	.7	08-1871-0002
2	50	08-1872-0000	2.2	1	08-0976-0002
3	80	08-1873-0000	5	2	08-0977-0002
4	100	08-1874-0000	12	5	08-0928-0002

4" through 12" using Jackscrew Actuator

4	100	08-0928-0000	12	5	08-0928-0002
6	150	08-0929-0000	24	11	08-0929-0002
8	200	08-0930-0000	38	17	08-0930-0002
10	300	08-0931-0000	67	30	08-0931-0002
12	350	08-0932-0000	95	43	08-0932-0002

The side outlet plunger can be installed on the end of either SHORTSTOPP® Plugging Machine and is used on TDW 3-WAY Tees™ and Spherical 3-WAY Tees™ to plug the tapped hole in the main line. This stops flow into the side outlet, permitting maintenance work on the branch connection.

Side Outlet Plugging Option



Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 1-1/2" Gas Main to 285 psi



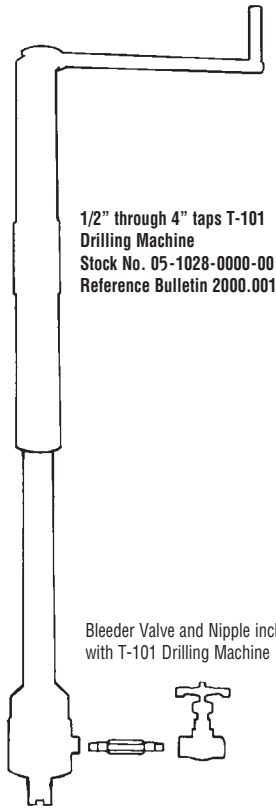
T.D. Williamson, Inc.

Data Sheet No. SS275-1-1/2

Date: May 2004

Supersedes: January 2003

Tapping

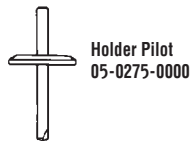


1/2" through 4" taps T-101
Drilling Machine
Stock No. 05-1028-0000-00
Reference Bulletin 2000.001

Bleeder Valve and Nipple included
with T-101 Drilling Machine



2" Valve Adapter
00-0706-0015

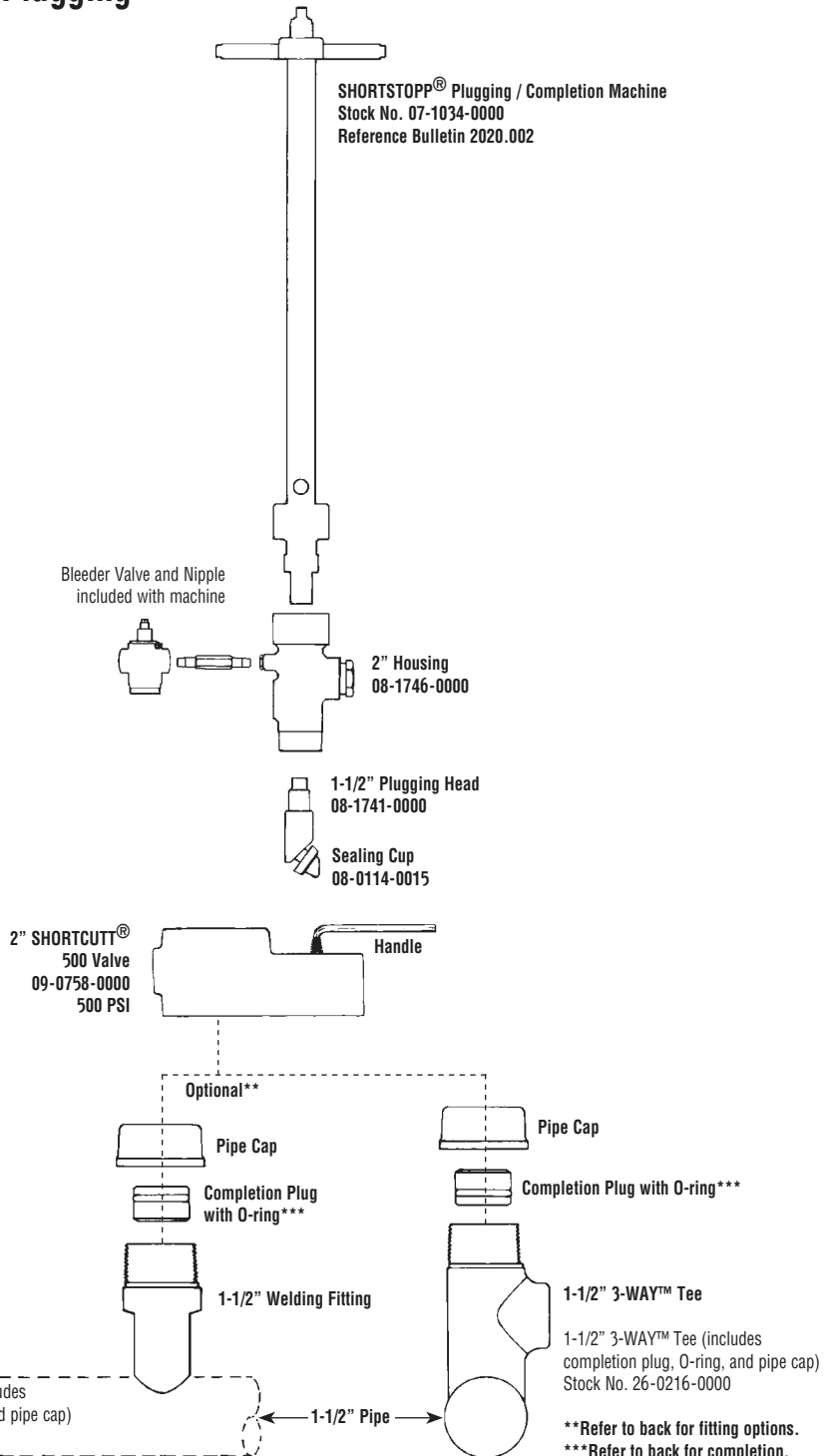


Holder Pilot
05-0275-0000



1-1/2" Hole Saw
(nominal)
00-1151-0009

Plugging



SHORTSTOPP® Plugging / Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002

Bleeder Valve and Nipple
included with machine

2" Housing
08-1746-0000

1-1/2" Plugging Head
08-1741-0000

Sealing Cup
08-0114-0015

2" SHORTCUTT®
500 Valve
09-0758-0000
500 PSI

Handle

Optional**

Pipe Cap

Completion Plug
with O-ring***

1-1/2" Welding Fitting

Pipe Cap

Completion Plug with O-ring***

1-1/2" 3-WAY™ Tee

1-1/2" 3-WAY™ Tee (includes
completion plug, O-ring, and pipe cap)
Stock No. 26-0216-0000

1-1/2" Welding Fitting (includes
completion plug, O-ring, and pipe cap)
Stock No. 26-0211-0000

1-1/2" Pipe

**Refer to back for fitting options.
***Refer to back for completion.



T.D. Williamson, Inc.

Data Sheet No. **SS275-1-1/2**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine

1-1/2" Gas Main to 275 psi

Data Sheet No. **SS275-1-1/2**



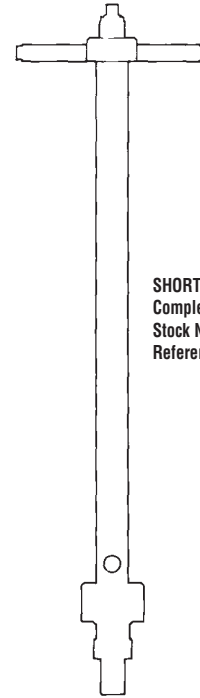
■ **Welding Fitting**
See Bulletin 2100.003



■ **3-WAY™ Tee**
See Bulletin 2100.002

■ Note: Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



2" Housing
08-1746-0000



Completion Plug Holder
07-0974-0000

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 2" Gas Main to 285 psi



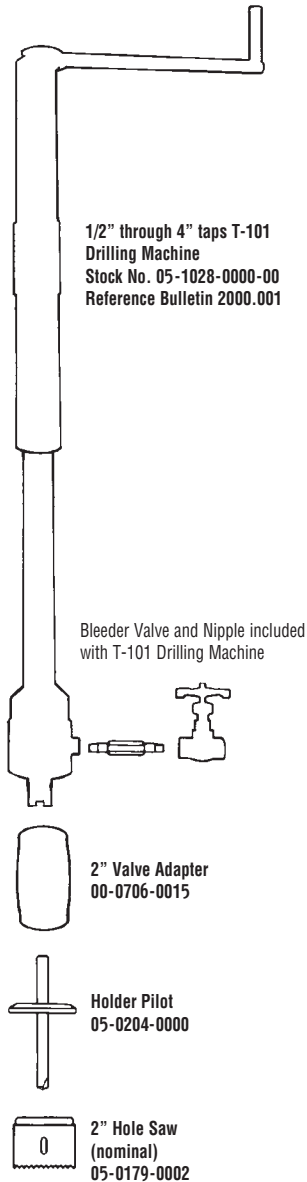
T.D. Williamson, Inc.

Data Sheet No. **SS275-2**

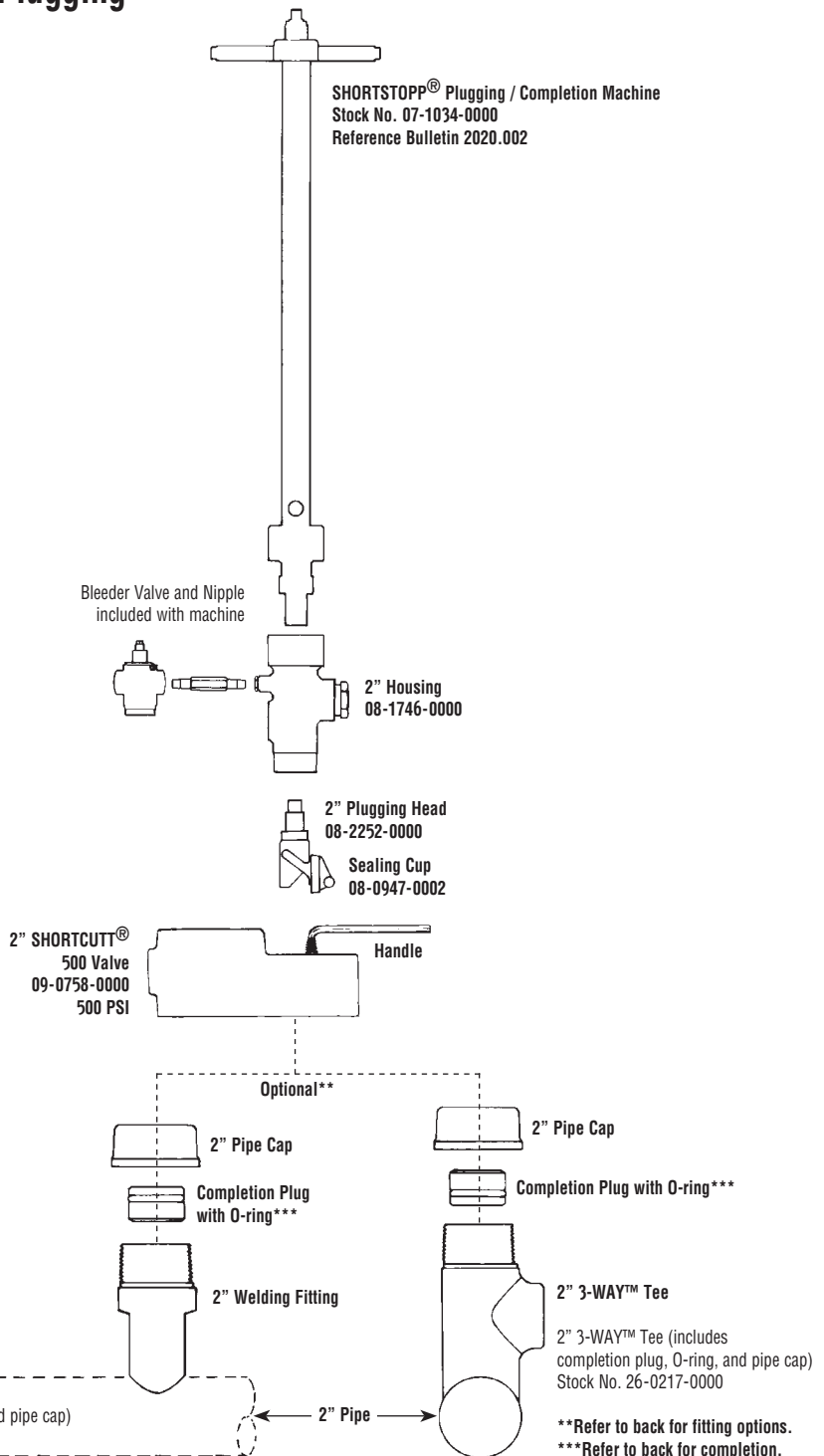
Date: January 2003

Supersedes: March 1999

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS275-2**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine 2" Gas Main to 285 psi



■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



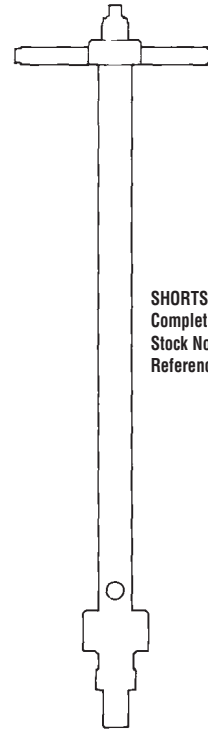
■ **3-WAY™ Tee**
See Bulletin 2100.002



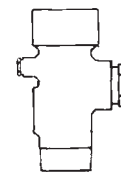
■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.002

■ **Note:** Consult your TDW representative for additional fitting options.

Completion



**SHORTSTOPP® Plugging/
Completion Machine**
Stock No. 07-1034-0000
Reference Bulletin 2020.002



2" Housing
08-1746-0000



Completion Plug Holder
07-0974-0000

Data Sheet No. **SS275-2**

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 3" Gas Main to 285 psi



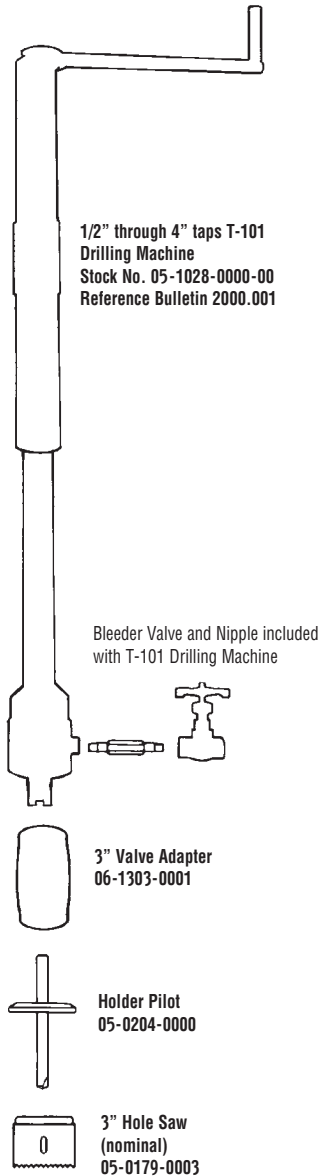
T.D. Williamson, Inc.

Data Sheet No. **SS275-3**

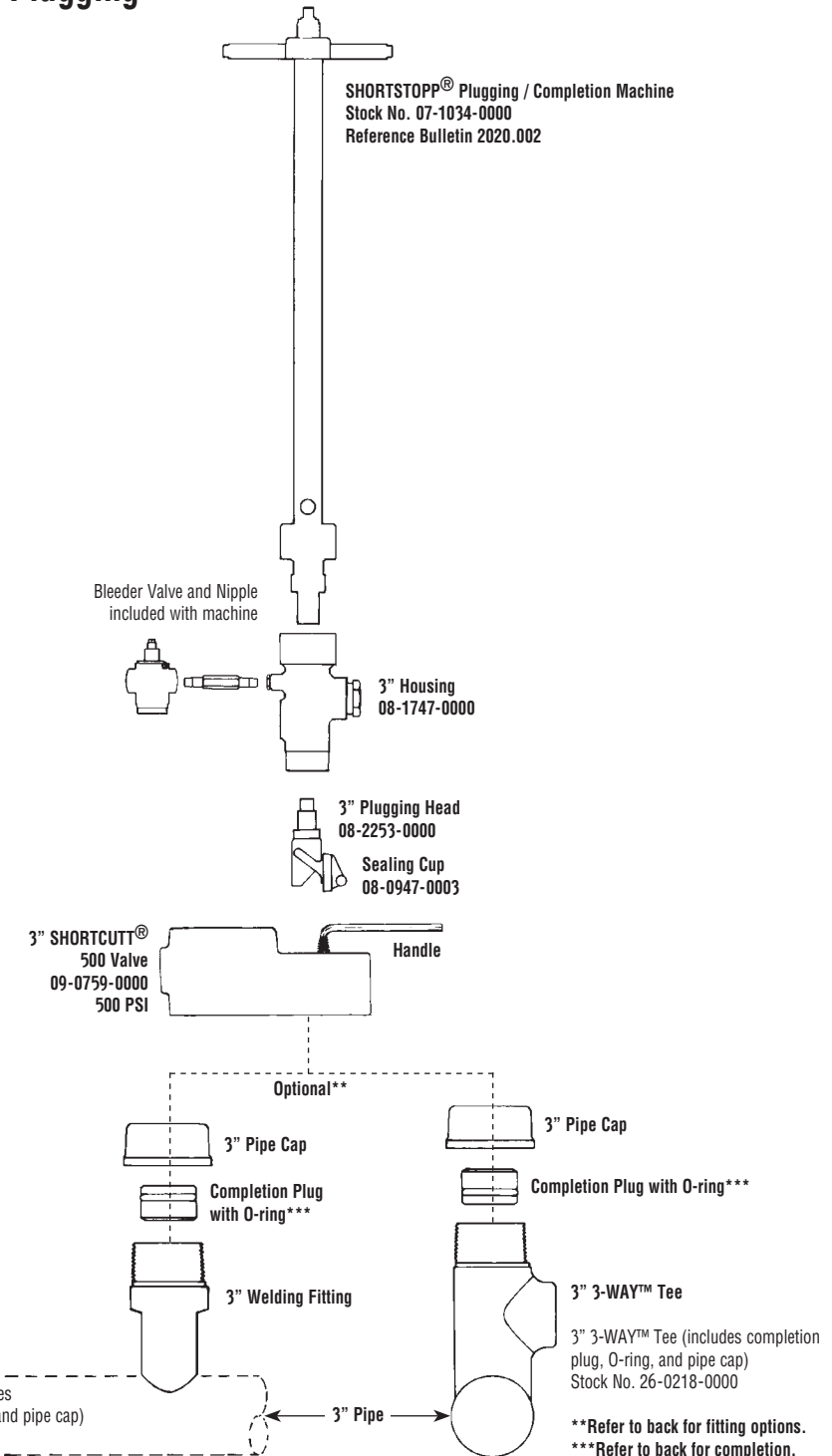
Date: January 2003

Supersedes: March 1999

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS275-3**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine 3" Gas Main to 285 psi

Data Sheet No. **SS275-3**



■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



■ **3-WAY™ Tee**
See Bulletin 2100.002

■ **Note:** Consult your TDW representative for additional fitting options.

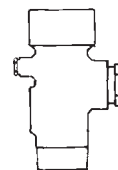
Completion



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



3" Housing
08-1747-0000



Completion Plug Holder
07-0974-0000

Tapping and SHORTSTOPP® Plugging Machine

*Equipment Needed to Plug a 4" Gas Main to 285 psi
Using Completion Machine*



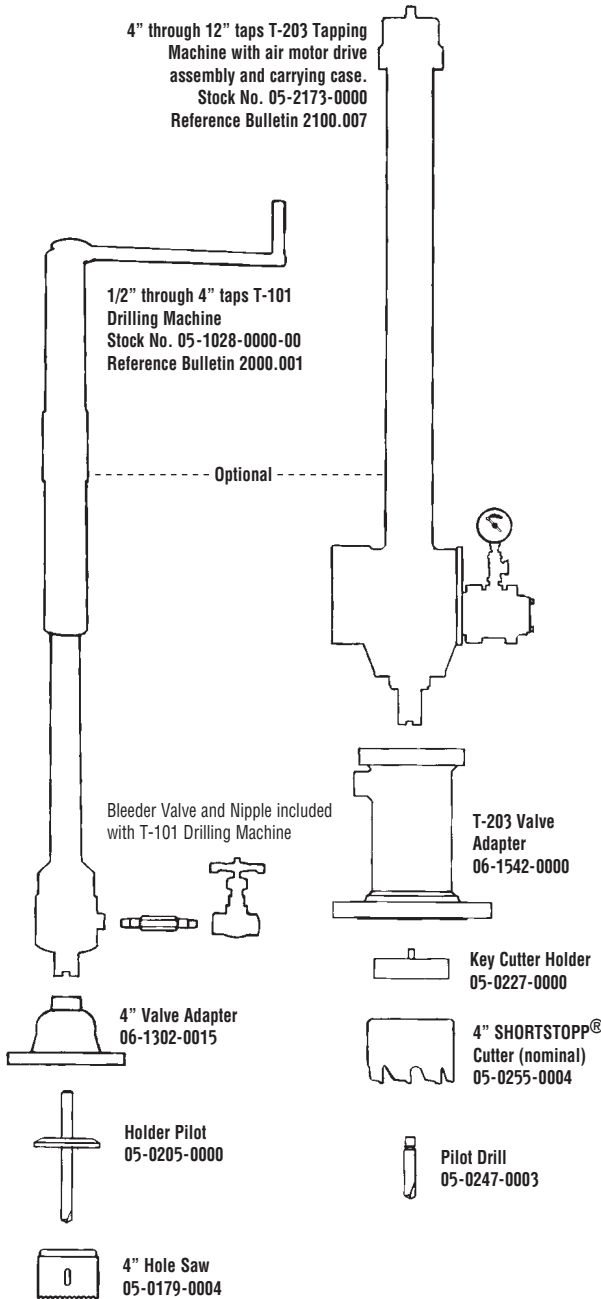
T.D. Williamson, Inc.

Data Sheet No. **SS275-4**

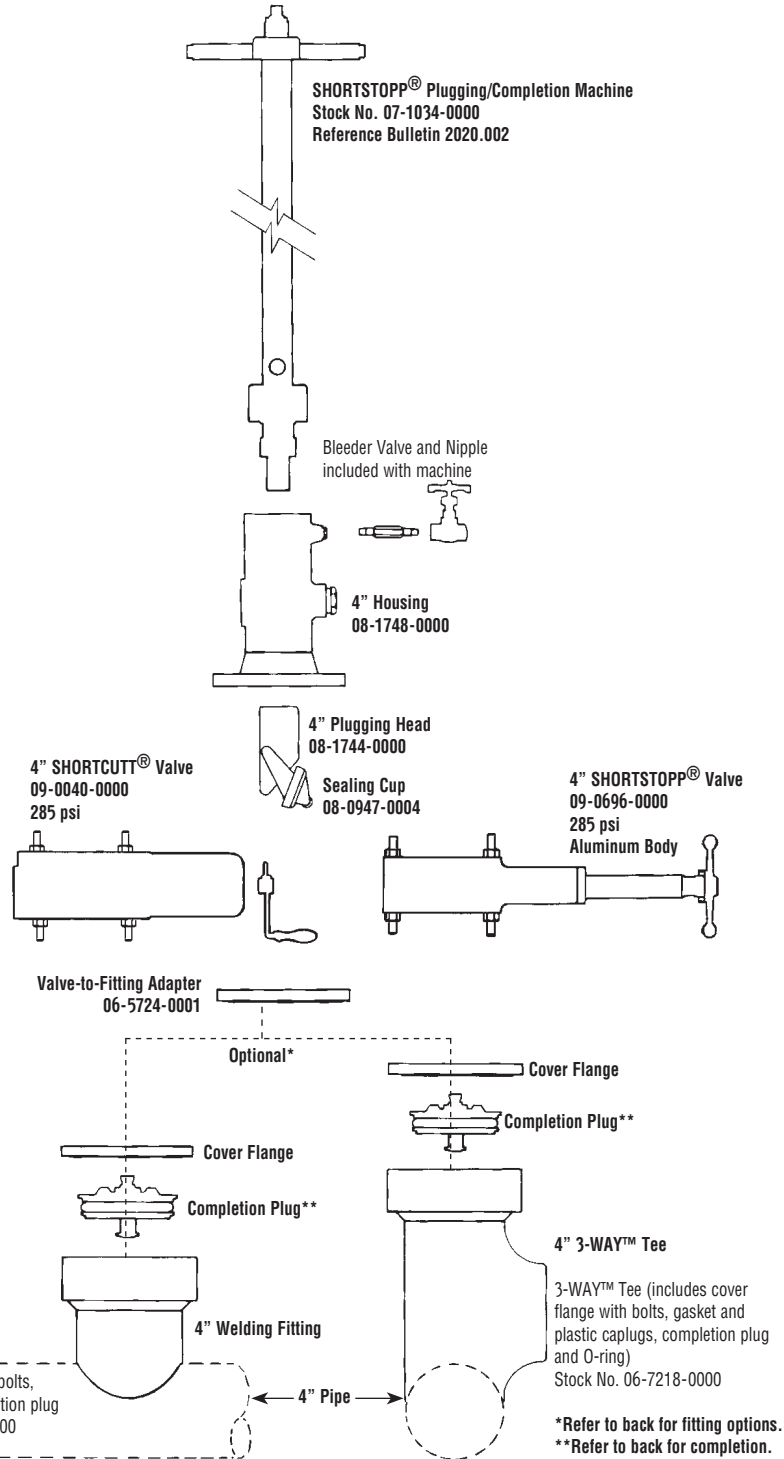
Date: September 2004

Supersedes: January 2003

Tapping



Plugging



Data Sheet No. SS275-4



T.D. Williamson, Inc.

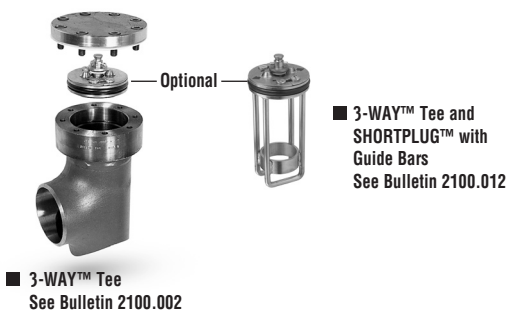
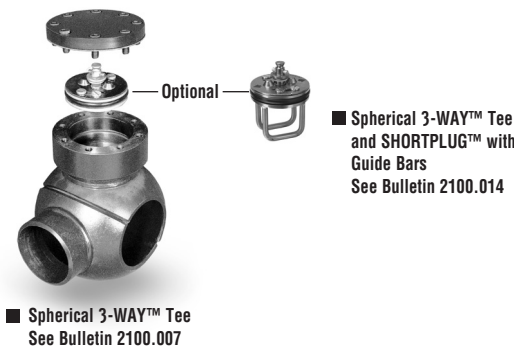
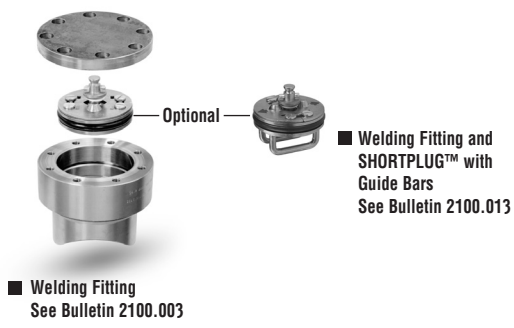
Data Sheet No. **SS275-4**

Fittings

Tapping and **SHORTSTOPP**® Plugging Machine

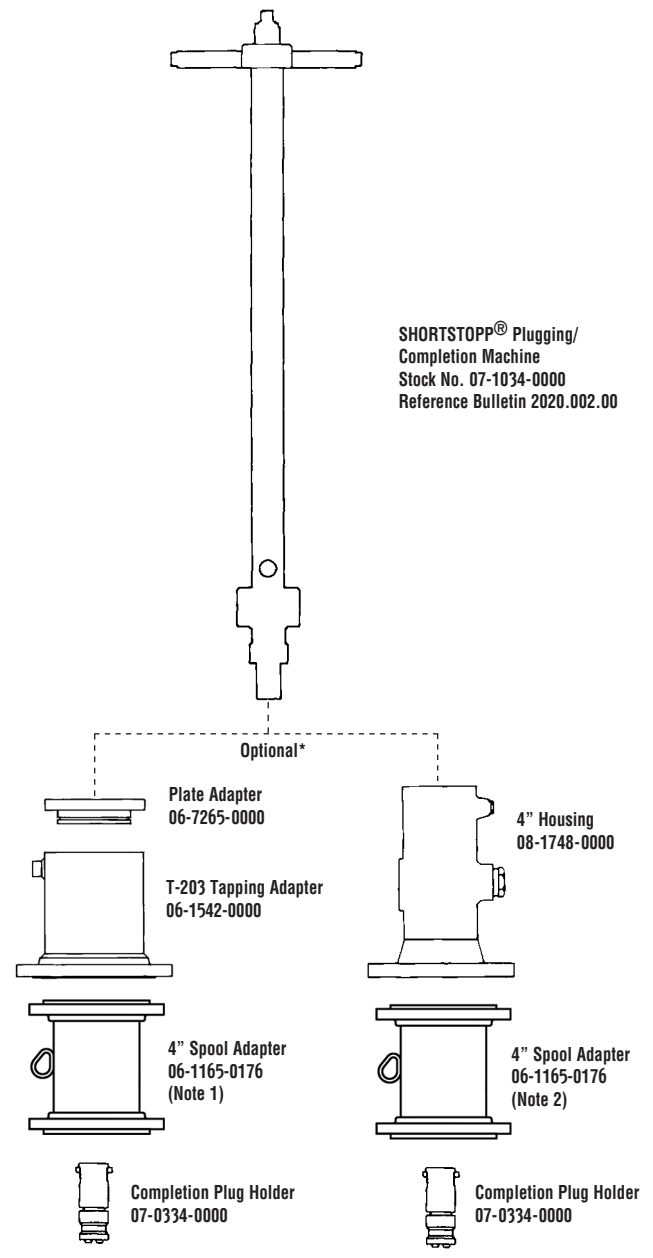
4" Gas Main to 285 psi

Data Sheet No. **SS275-4**



■ Note: Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002.00

- Note 1: 4-inch Spool Adapter required to set 4-inch **SHORTPLUG**™ with Guide Bars in all **SHORTSTOPP** Type II fittings using the 06-1542-0000 T-203 Tapping Adapter.
- Note 2: 4-inch Spool Adapter required to set 4-inch **SHORTPLUG**™ with Guide Bars in **SHORTSTOPP** Type II 3-Way™ Tee fittings using the 08-1748-0000 4-inch Housing.

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 4" Gas Main to 285 psi



T.D. Williamson, Inc.

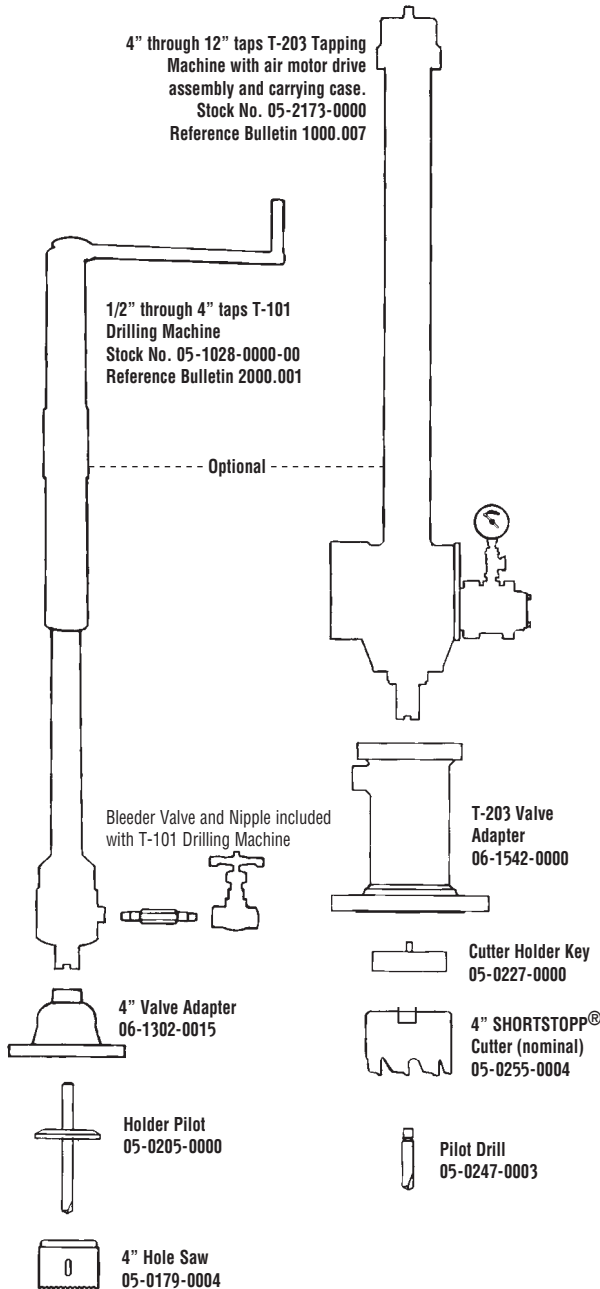
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Date: September 2004

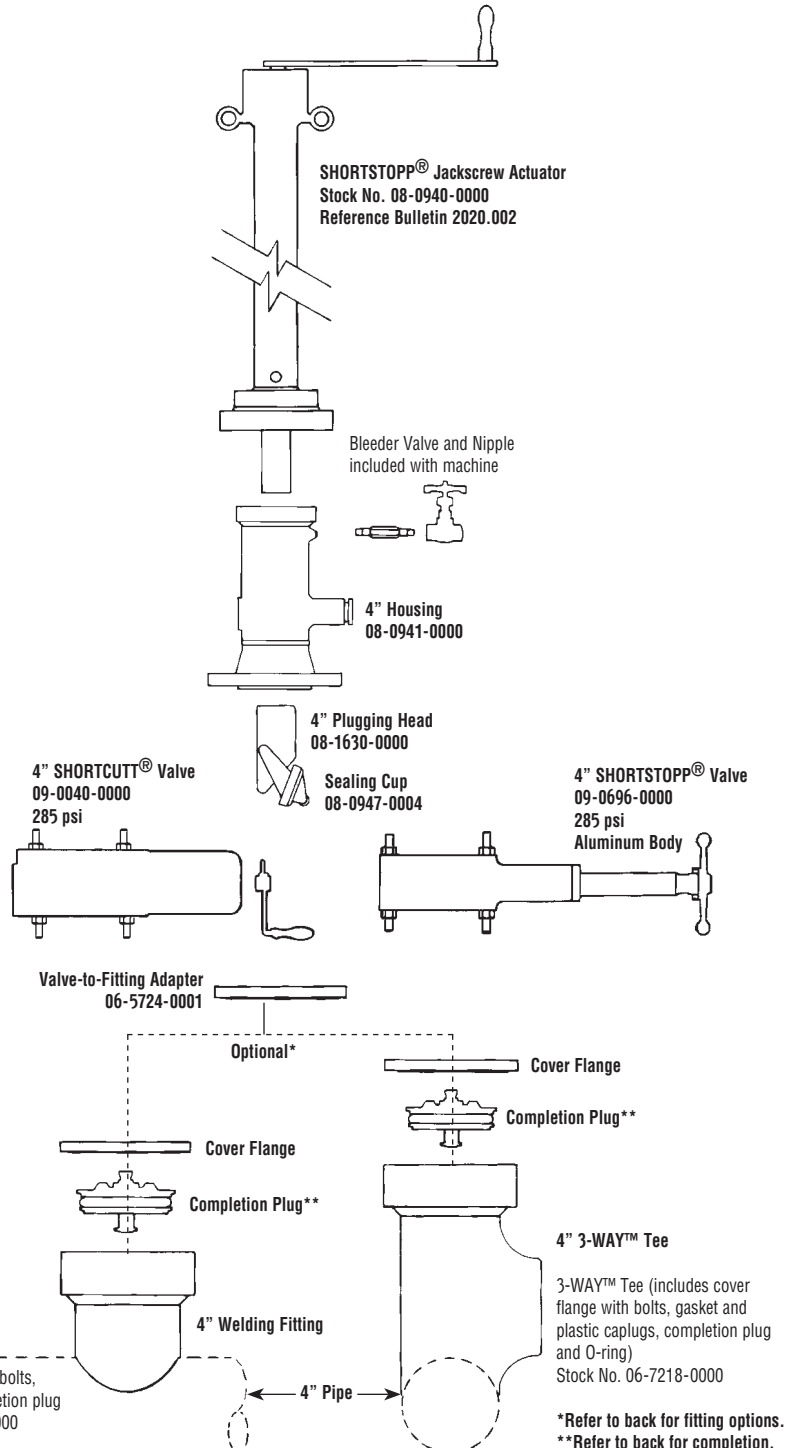
Supersedes: January 2003

Data Sheet No. SS275-4A

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS275-4A**

Fittings

Tapping and **SHORTSTOPP**® Plugging Machine

4" Gas Main to 285 psi

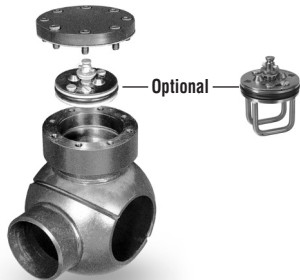
Data Sheet No. **SS275-4A**



Optional

■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013

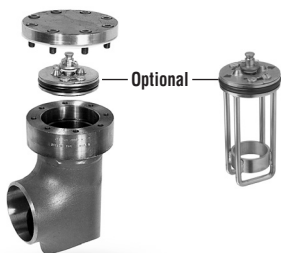
■ **Welding Fitting**
See Bulletin 2100.003



Optional

■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



Optional

■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

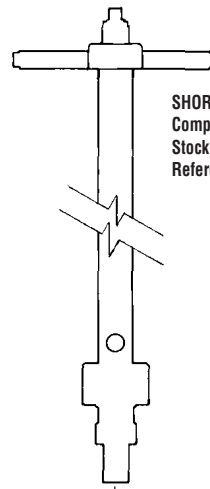
■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001

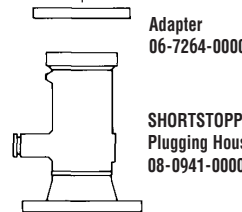
■ **Note:** Consult your TDW representative for additional fitting options.

Completion

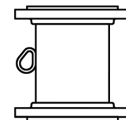


SHORTSTOPP® Plugging/Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002.00

Optional*



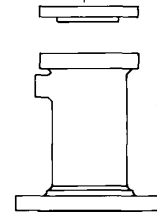
Adapter
06-7264-0000



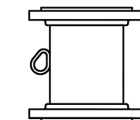
4" Spool Adapter
06-1165-0176
(Note 1)



Completion Plug Holder
07-0334-0000



Adapter
06-7265-0000



4" Spool Adapter
06-1165-0176
(Note 2)



Completion Plug Holder
07-0334-0000

■ **Note 1:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP 3-Way™ Tee Type II fittings using the 08-0941-0000 Housing.

■ **Note 2:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP Type II fittings using the 06-1542-0000 Adapter

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 6" Gas Main to 285 psi



T.D. Williamson, Inc.

Data Sheet No. **SS275-6**

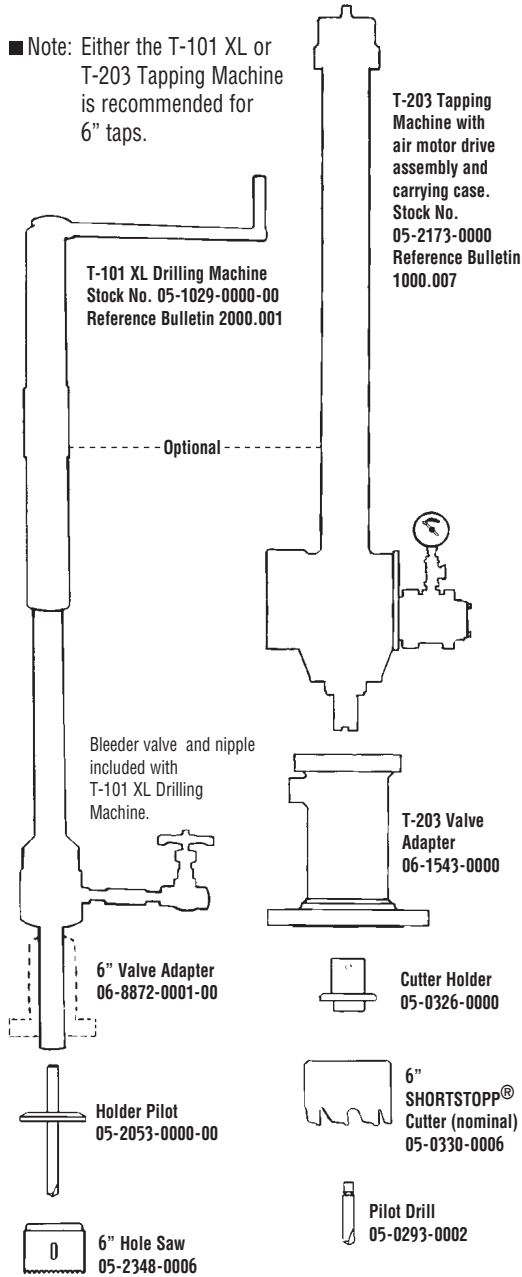
Date: September 2004

Supersedes: January 2003

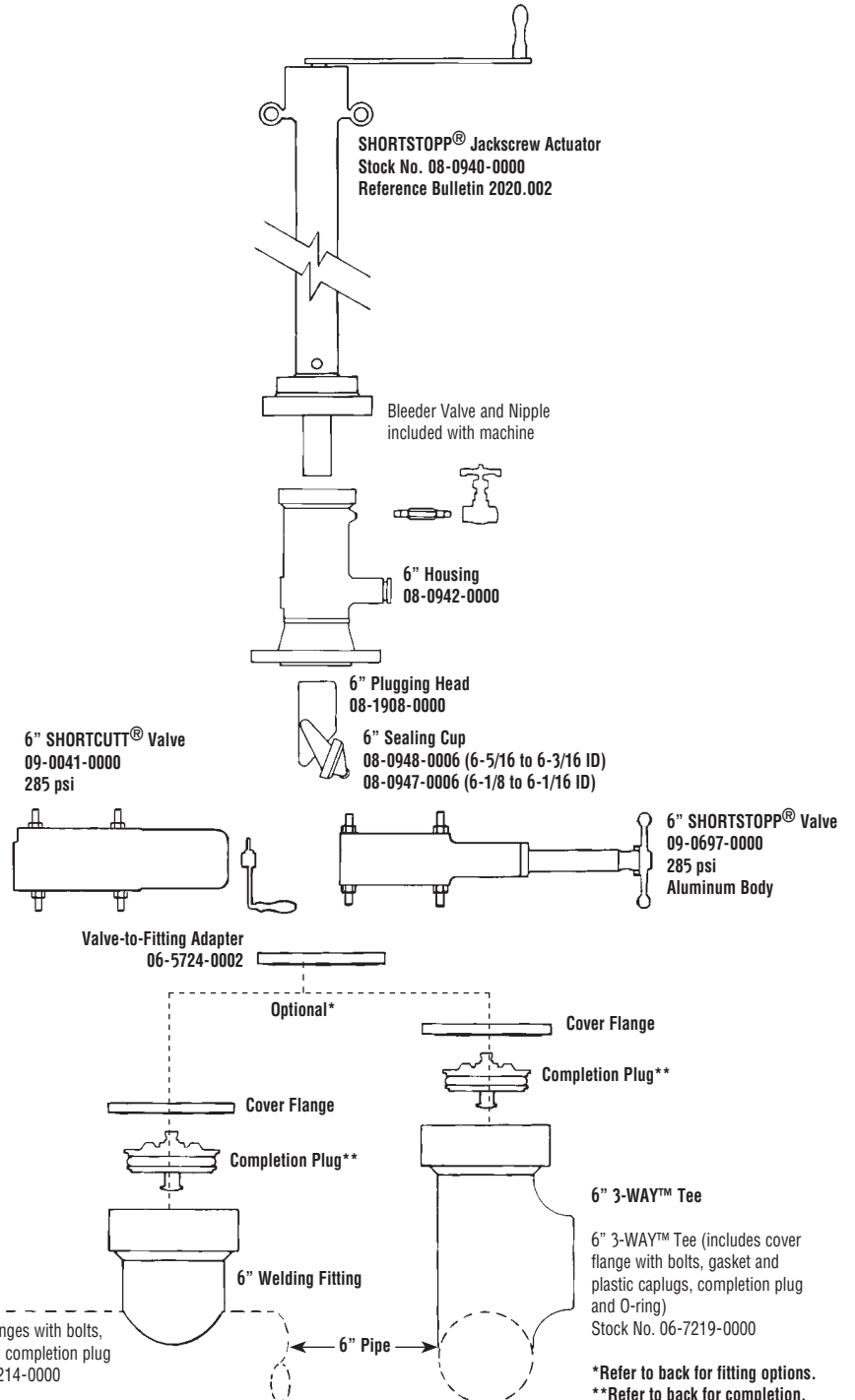
Data Sheet No. SS275-6

Tapping

■ Note: Either the T-101 XL or T-203 Tapping Machine is recommended for 6" taps.



Plugging



*Refer to back for fitting options.
**Refer to back for completion.



T.D. Williamson, Inc.

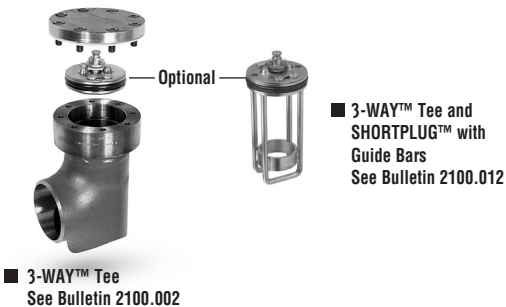
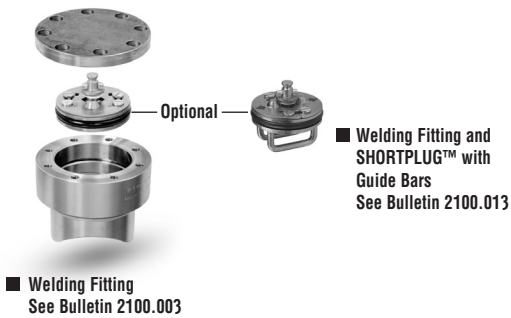
Data Sheet No. **SS275-6**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine

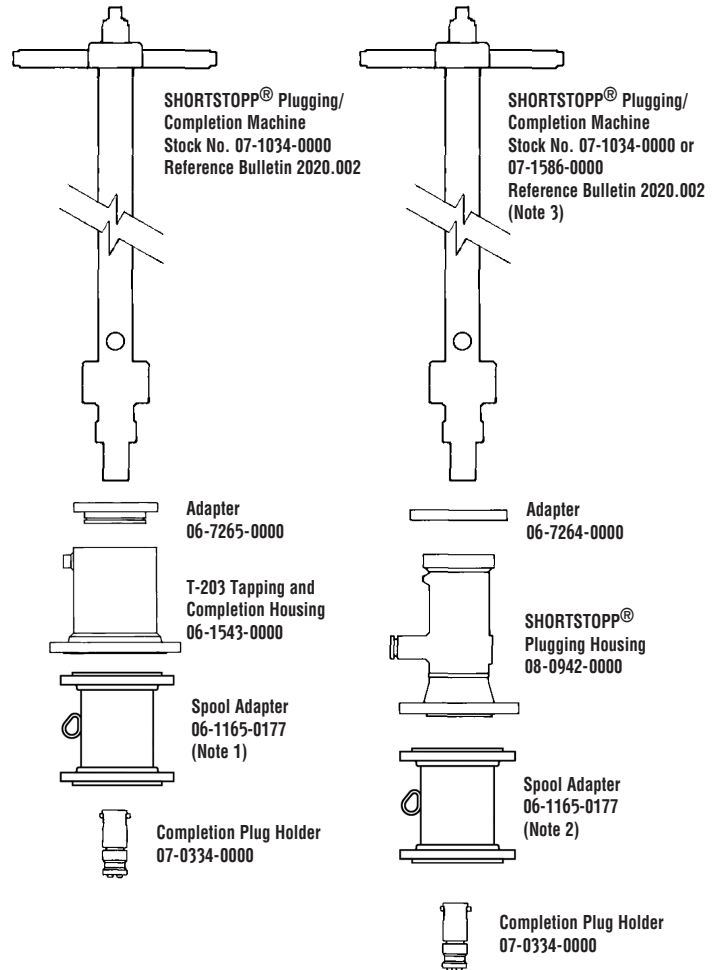
6" Gas Main to 285 psi

Data Sheet No. **SS275-6**



■ Note: Consult your TDW representative for additional fitting options.

Completion



- Note 1: 6-inch Spool Adapter required to set 6-inch **SHORTPLUG™** with Guide Bars in **SHORTSTOPP** Type II 3-Way™ Tee and Spherical fittings using the 06-1543-0000 Adapter.
- Note 2: 6-inch Spool Adapter required to set 6-inch **SHORTPLUG™** with Guide Bars in **SHORTSTOPP** Type II 3-Way™ Tee fittings using the 08-0942-0000 Housing. Also must use the 07-1586-0000 Completion Machine with 48-inch travel.
- Note 3: The 07-1586-0000 Completion Machine with 48" travel is required to set 6" **SHORTPLUG™** with Guide Bars in **SHORTSTOPP** Type II fittings using the 08-0942-0000 Adapter.

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 8" Gas Main to 285 psi



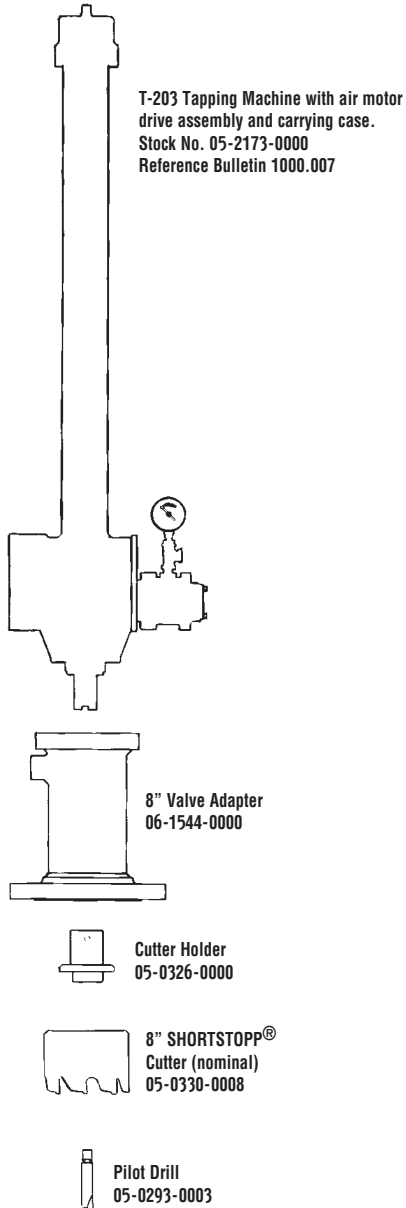
T.D. Williamson, Inc.

Data Sheet No. **SS275-8**

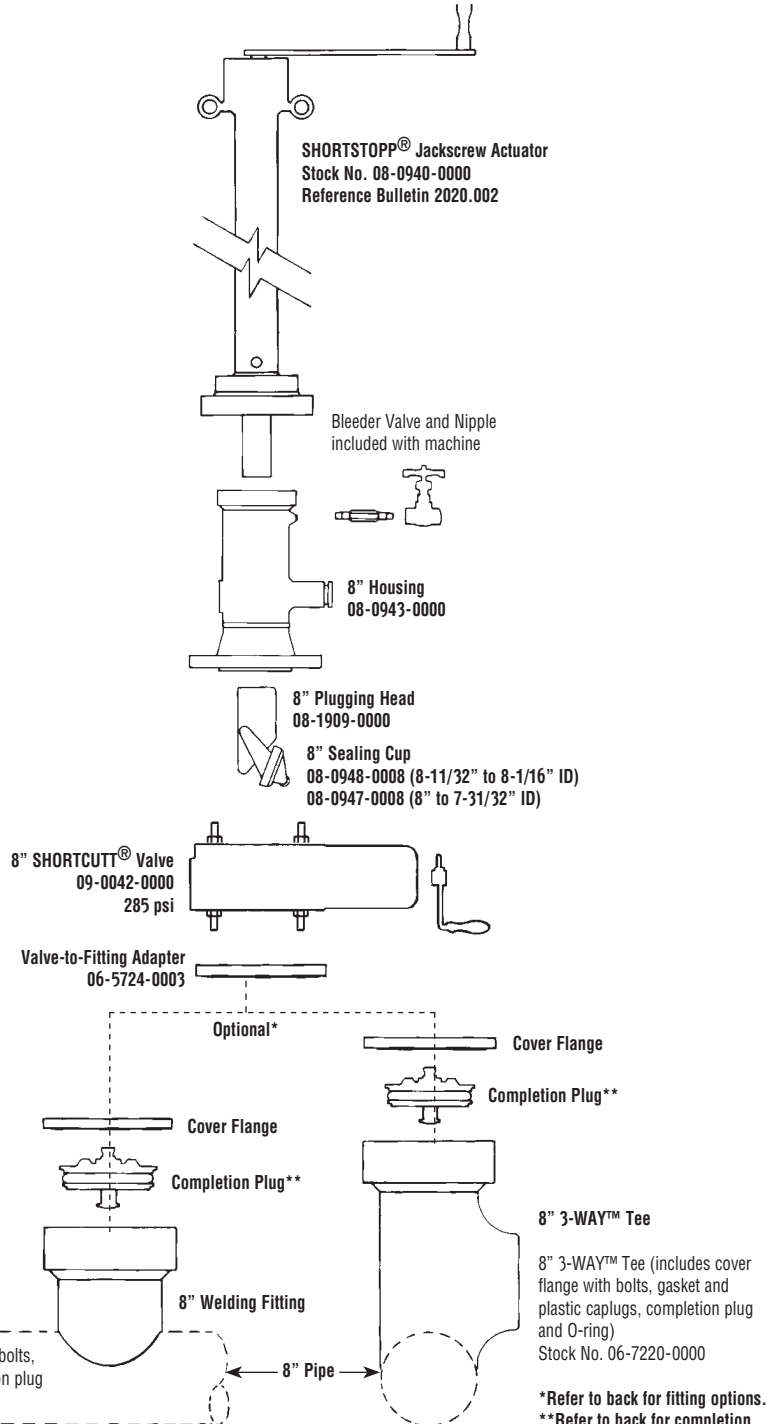
Date: September 2004

Supersedes: January 2003

Tapping



Plugging





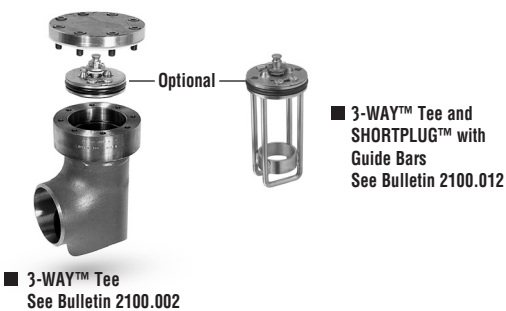
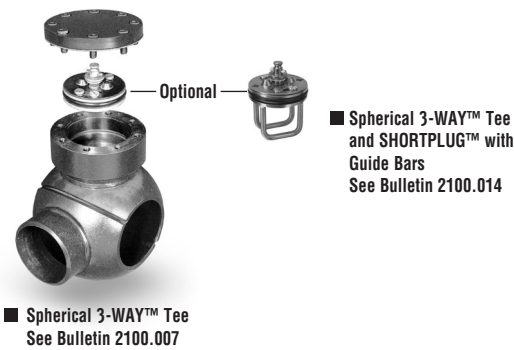
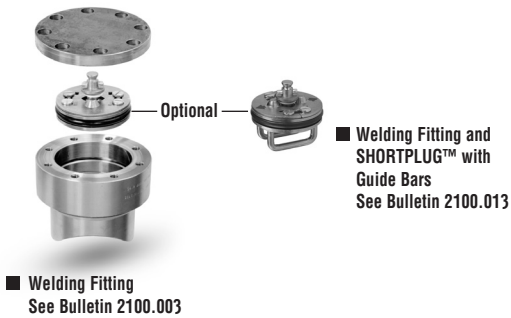
T.D. Williamson, Inc.

Data Sheet No. SS275-8

Fittings

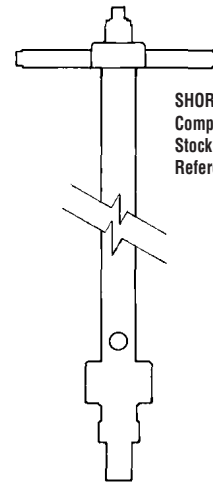
Tapping and SHORTSTOPP® Plugging Machine 8" Gas Main to 285 psi

Data Sheet No. SS275-8

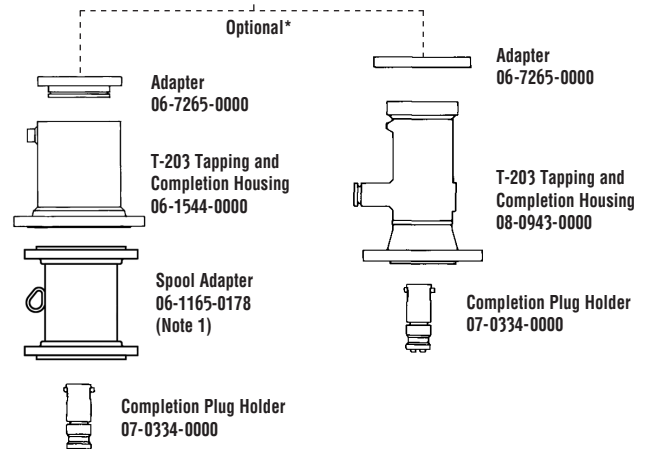


■ Note: Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002.00



■ Note 1: 8-inch Spool Adapter required to set 8-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-Way™ Tee fittings using the 06-1544-0000 Adapter.

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 10" Gas Main to 285 psi



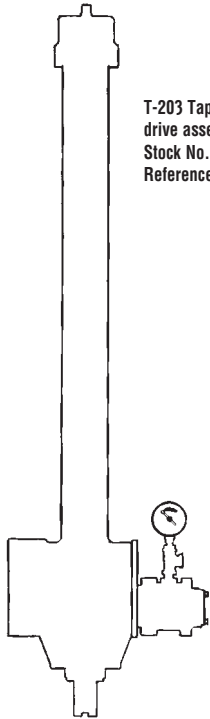
T.D. Williamson, Inc.

Data Sheet No. **SS275-10**

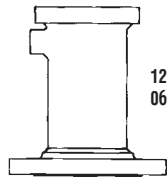
Date: September 2004

Supersedes: January 2003

Tapping



T-203 Tapping Machine with air motor drive assembly and carrying case.
Stock No. 05-2173-0000
Reference Bulletin 1000.007



12" Valve Adapter
06-1546-0000



Cutter Holder
05-0326-0000

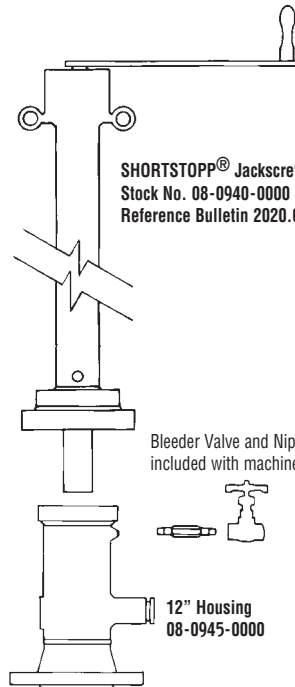


10" SHORTSTOPP®
Cutter (nominal)
05-0330-0010



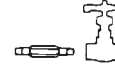
Pilot Drill
05-0293-0004

Plugging



SHORTSTOPP® Jackscrew Actuator
Stock No. 08-0940-0000
Reference Bulletin 2020.002

Bleeder Valve and Nipple
included with machine



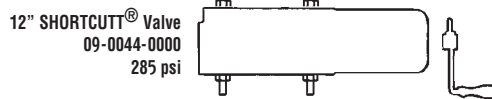
12" Housing
08-0945-0000



10" Plugging Head
08-1910-0000



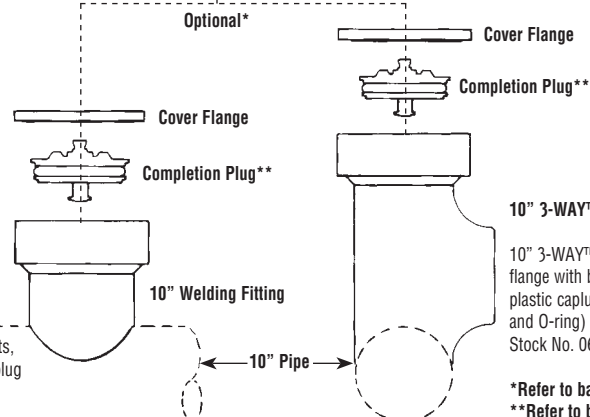
10" Sealing Cup
08-0948-0010 (10-3/8" to 10-3/16" ID)
08-0947-0010 (10-1/8" to 10-1/64" ID)



12" SHORTCUTT® Valve
09-0044-0000
285 psi



Valve-to-Fitting Adapter
06-5724-0012



10" fitting (includes cover flange with bolts, gaskets and plastic caplugs, completion plug and O-ring) Stock No. 06-7216-0000

*Refer to back for fitting options.
**Refer to back for completion.



T.D. Williamson, Inc.

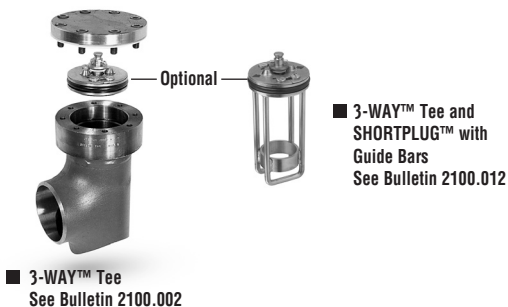
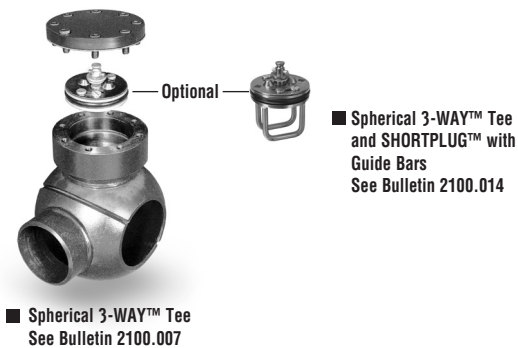
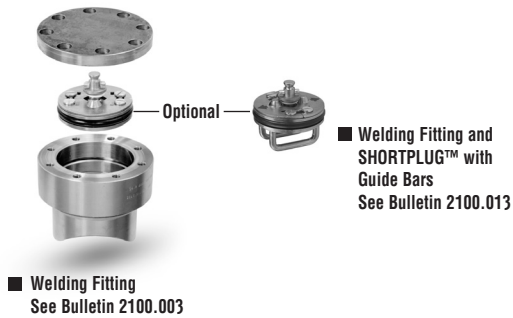
Data Sheet No. **SS275-10**

Fittings

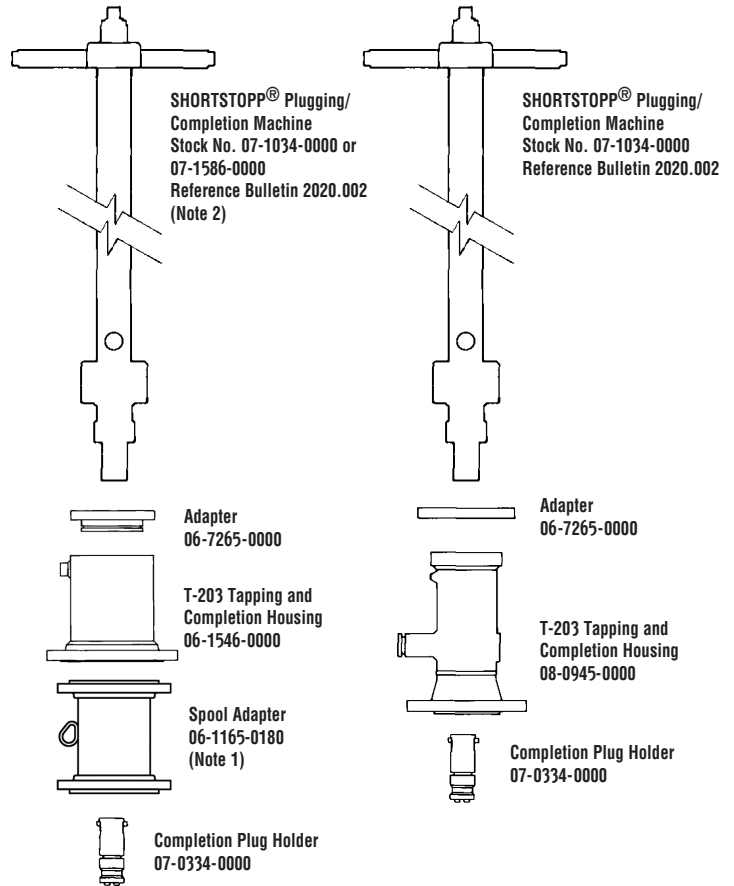
Tapping and **SHORTSTOPP®** Plugging Machine

10" Gas Main to 285 psi

Data Sheet No. **SS275-10**



Completion



■ Note 1: 12-inch Spool Adapter required to set 10-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-Way™ Tee fittings using the 06-1546-0000 Adapter and 07-1586-0000 Completion Machine

Note 2: The 07-1586-0000 Completion Machine with 48" travel is required to set 10" SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-Way™ Tee fittings using the 06-1546-0000 Adapter.

■ Note: Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 12" Gas Main to 285 psi



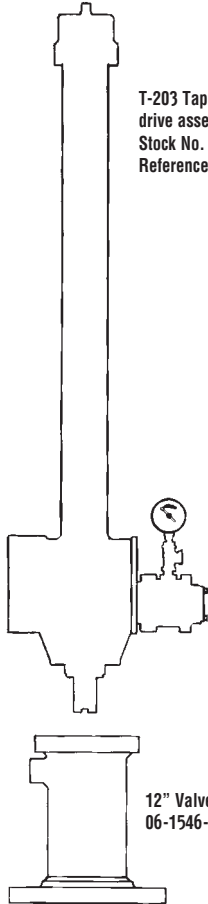
T.D. Williamson, Inc.

Data Sheet No. **SS275-12**

Date: September 2004

Supersedes: January 2003

Tapping



T-203 Tapping Machine with air motor drive assembly and carrying case.
Stock No. 05-2173-0000
Reference Bulletin 1000.007

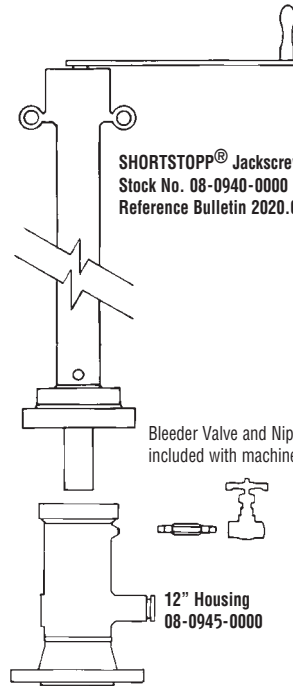
12" Valve Adapter
06-1546-0000

Cutter Holder
05-0326-0000

12" SHORTSTOPP®
Cutter (nominal)
05-0330-0012

Pilot Drill
05-0293-0005

Plugging



SHORTSTOPP® Jackscrew Actuator
Stock No. 08-0940-0000
Reference Bulletin 2020.002

Bleeder Valve and Nipple
included with machine

12" Housing
08-0945-0000

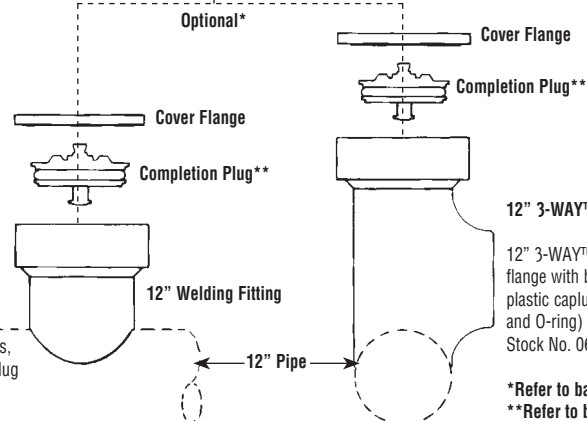
12" Plugging Head
08-1911-0000

12" Sealing Cup
08-0947-0012 (12-11/32 to 11-15/16 ID)

12" SHORTCUTT® Valve
09-0044-0000
285 psi

Valve-to-Fitting Adapter
06-5724-0011

When a 12" SHORTCUTT® Valve is used on a 10" fitting, it will require a 06-5724-0012 Valve-to-Fitting Adapter.



12" fitting (includes cover flange with bolts, gaskets and plastic caplugs, completion plug and O-ring) Stock No. 06-7217-0000

12" 3-WAY™ Tee
12" 3-WAY™ Tee (includes cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring)
Stock No. 06-7222-0000

*Refer to back for fitting options.
**Refer to back for completion.



T.D. Williamson, Inc.

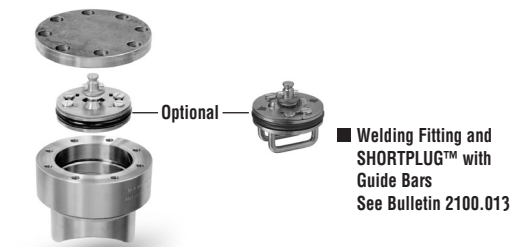
Data Sheet No. SS275-12

Fittings

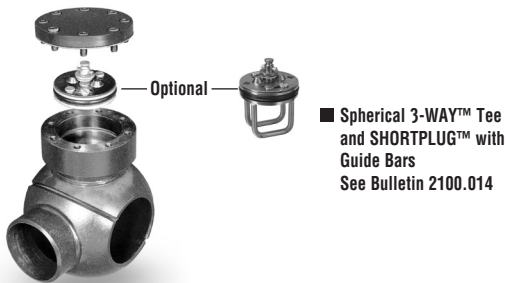
Tapping and SHORTSTOPP® Plugging Machine

12" Gas Main to 285 psi

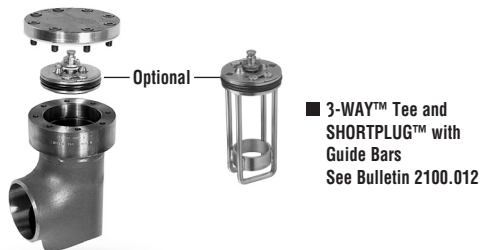
Data Sheet No. SS275-12



■ Welding Fitting
See Bulletin 2100.003



■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



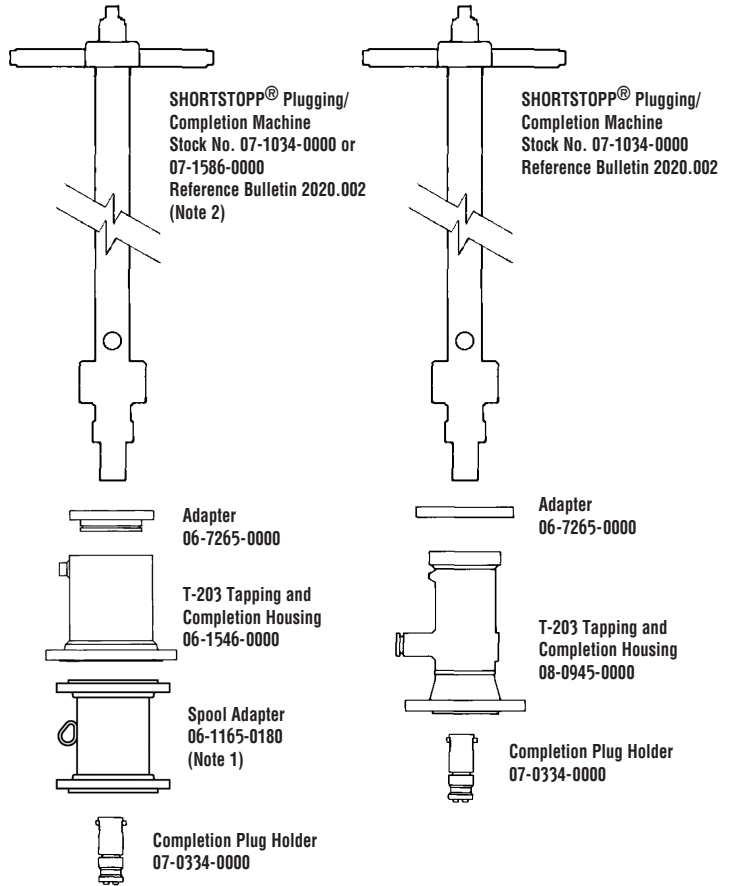
■ 3-WAY™ Tee
See Bulletin 2100.002



■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001

■ Note: Consult your TDW representative for additional fitting options.

Completion



■ Note 1: 12-inch Spool Adapter required to set 12-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-Way™ Tee fittings using the 06-1546-0000 Adapter and 07-1586-0000 Completion Machine

Note 2: The 07-1586-0000 Completion Machine with 48" travel is required to set 12" SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-Way™ Tee fittings using the 06-1546-0000 Adapter.

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 2" Gas Main to 500 psi



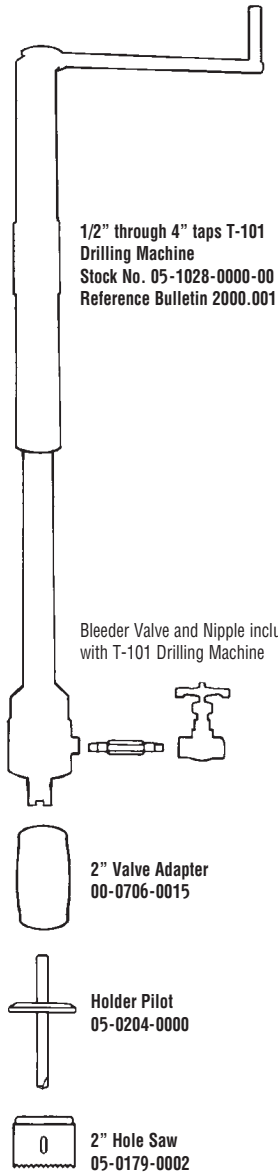
T.D. Williamson, Inc.

Data Sheet No. SS500-2

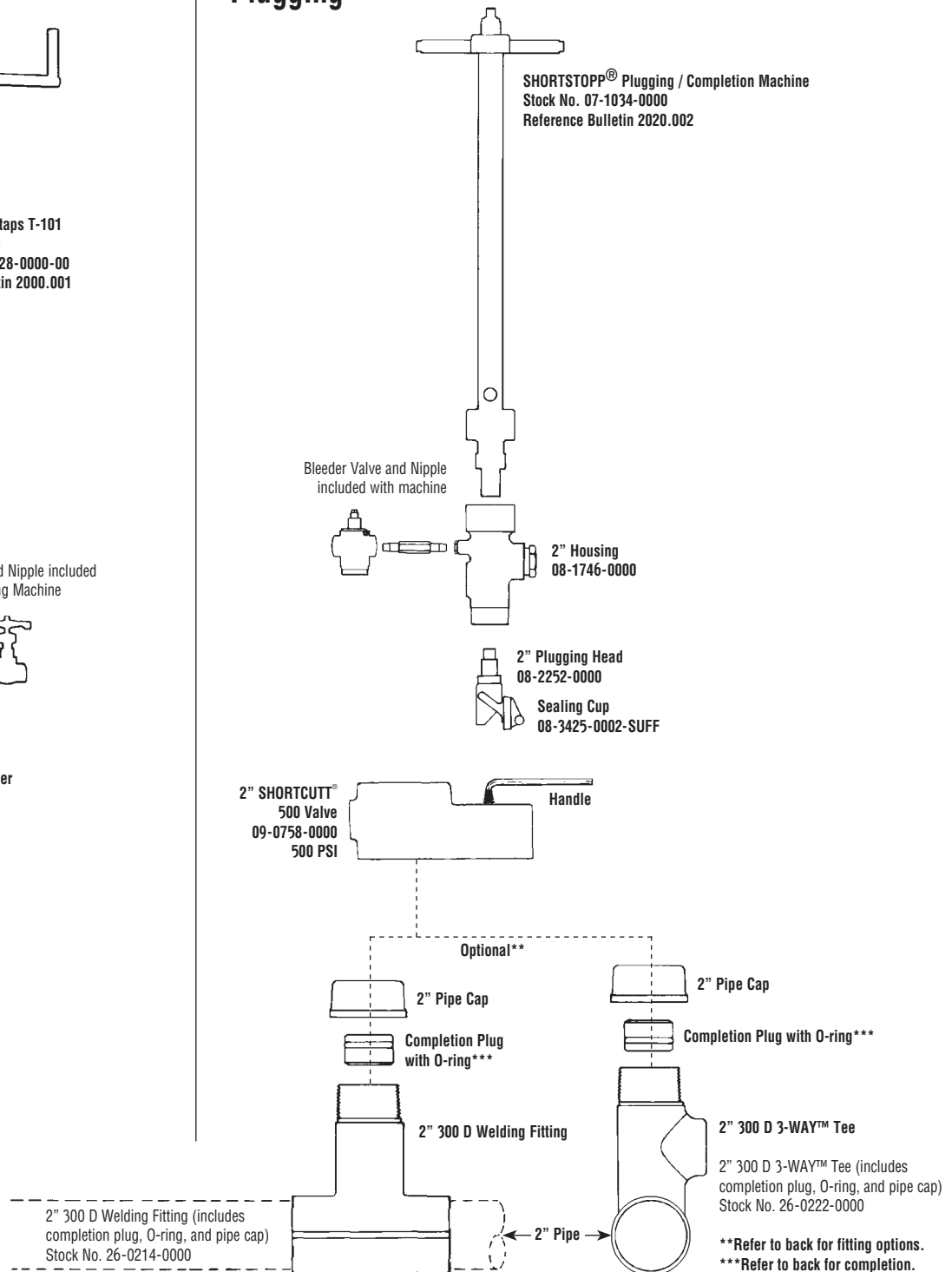
Date: September 2002

Supersedes: March 1999

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS500-2**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine 2" Gas Main to 500 psi



■ 300 D Welding Fitting
See Bulletin 2100.004



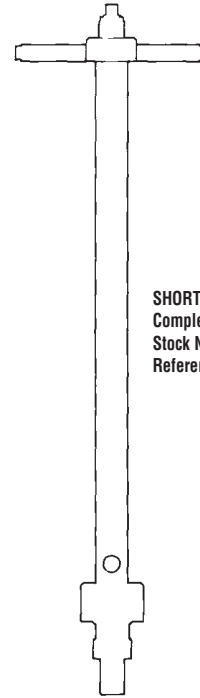
■ 300 D Spherical 3-WAY™ Tee
See Bulletin 2100.008



■ 300 D 3-WAY™ Tee
See Bulletin 2100.006

■ Note: Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



2" Housing
08-1746-0000



Completion Plug Holder
07-0974-0000

Data Sheet No. **SS500-2**

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 3" Gas Main to 500 psi



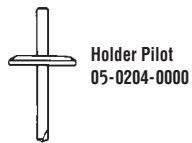
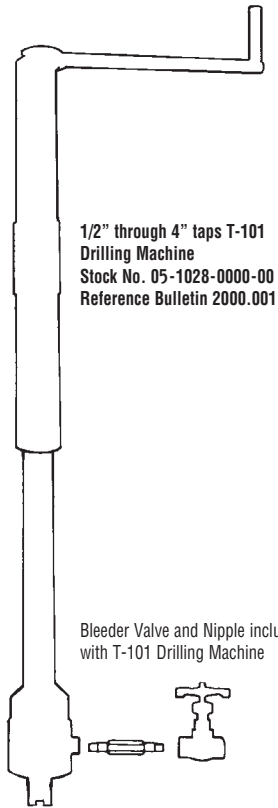
T.D. Williamson, Inc.

Data Sheet No. **SS500-3**

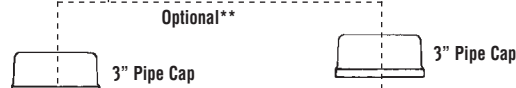
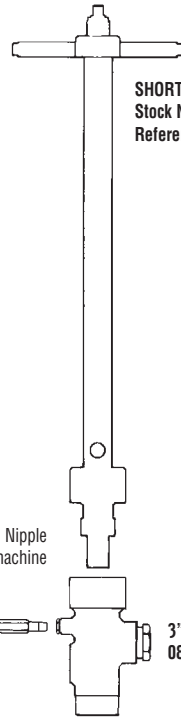
Date: September 2002

Supersedes: March 1999

Tapping



Plugging



3" 300 D Welding Fitting (includes
completion plug, O-ring, and pipe cap)
Stock No. 26-0215-0000

3" 300 D 3-WAY™ Tee (includes
completion plug, O-ring, and pipe cap)
Stock No. 26-0223-0000

**Refer to back for fitting options.
***Refer to back for completion.



T.D. Williamson, Inc.

Data Sheet No. **SS500-3**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine 3" Gas Main to 500 psi



■ 300 D Welding Fitting
See Bulletin 2100.004



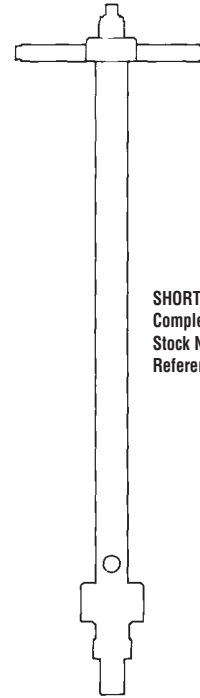
■ 300 D Spherical 3-WAY™ Tee
See Bulletin 2100.008



■ 300 D 3-WAY™ Tee
See Bulletin 2100.006

■ Note: Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



3" Housing
08-1747-0000



Completion Plug Holder
07-0974-0000

Tapping and SHORTSTOPP® Plugging Machine

*Equipment Needed to Plug a 4" Gas Main to 500 psi
Using Completion Machine*



T.D. Williamson, Inc.

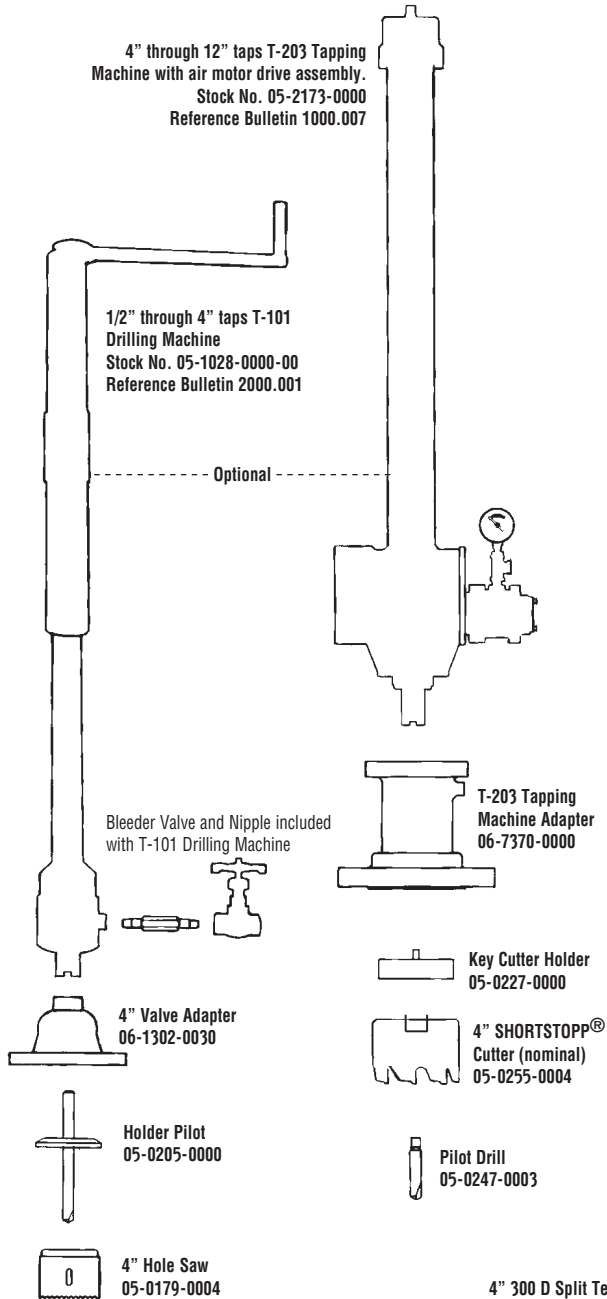
Data Sheet No. **SS500-4**

Date: November 2004

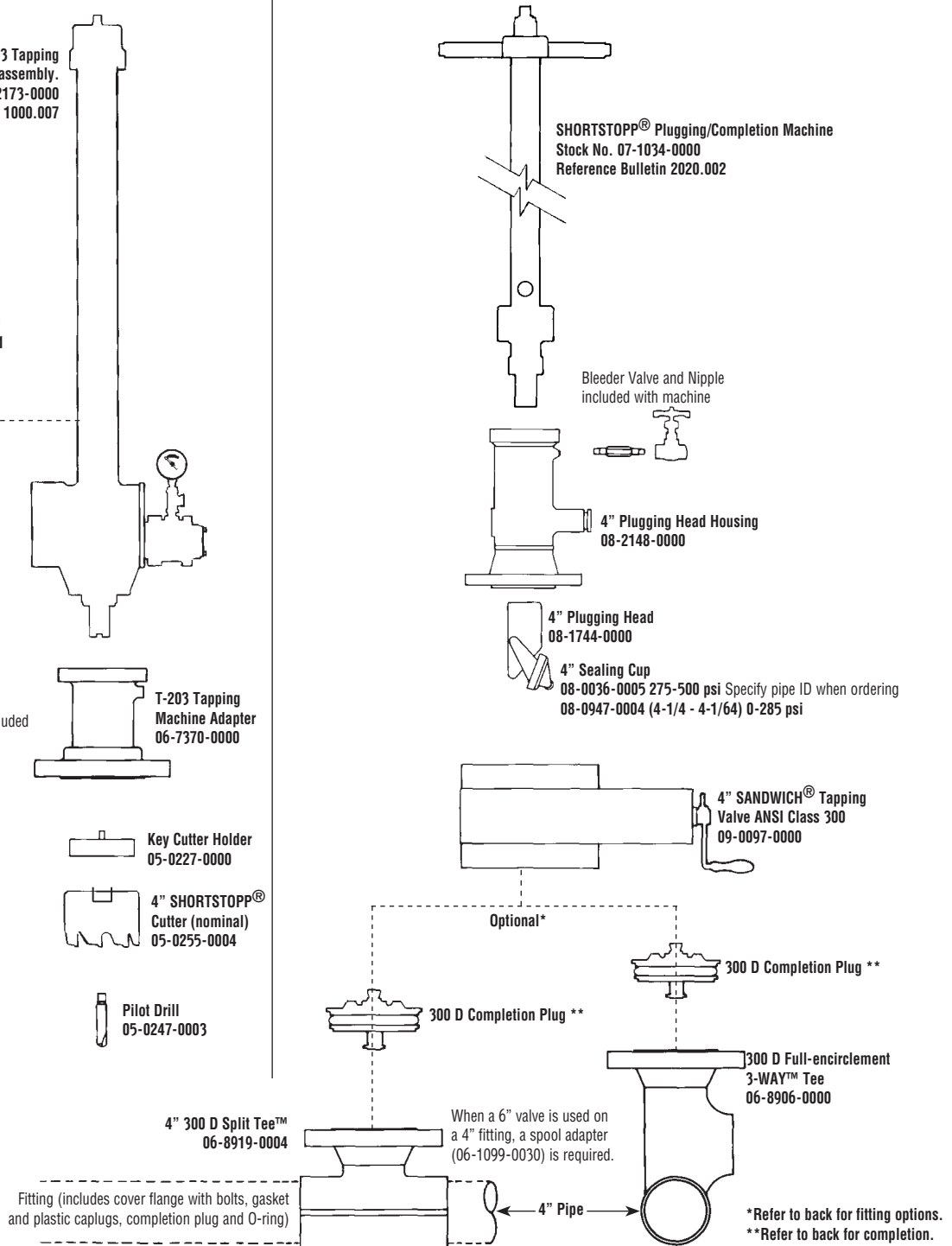
Supersedes: September 2002

Data Sheet No. SS500-4

Tapping



Plugging





T.D. Williamson, Inc.

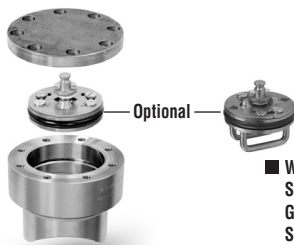
Data Sheet No. **SS500-4**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine

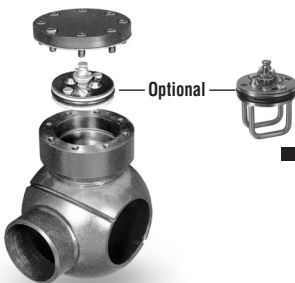
4" Gas Main to 500 psi

Data Sheet No. **SS500-4**



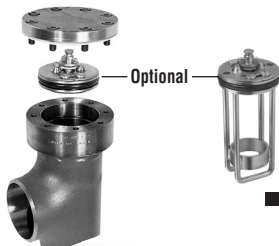
Optional
■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013

■ **Welding Fitting**
See Bulletin 2100.003



Optional
■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



Optional
■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

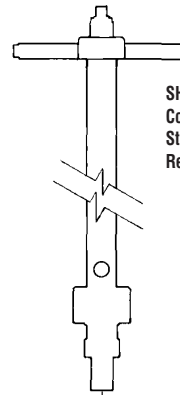
■ **3-WAY™ Tee**
See Bulletin 2100.002



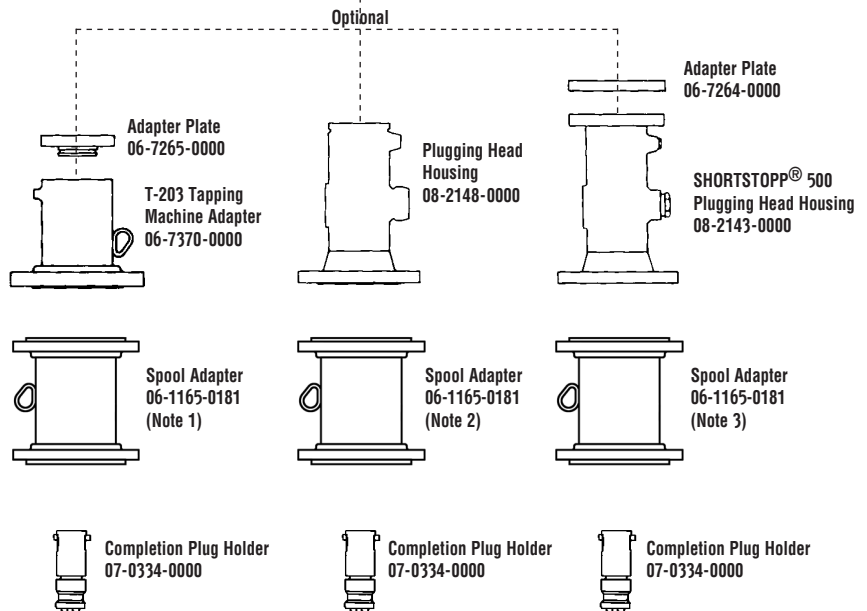
■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001

■ **Note:** Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



- **Note 1:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D Split Tee Fittings using the 06-7370-0000 Housing
- **Note 2:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2148-0000 Housing
- **Note 3:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2143-0000 Housing

Tapping and SHORTSTOPP[®] Plugging Machine

*Equipment Needed to Plug a 4" Gas Main to 500 psi
using Jackscrew Actuator*



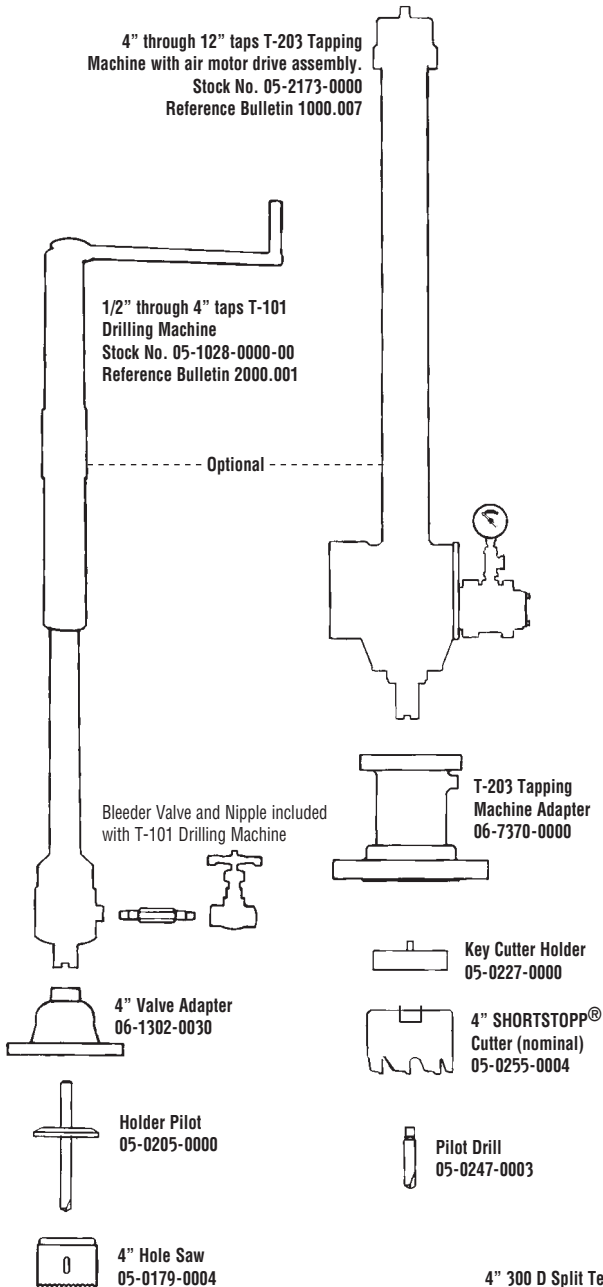
T.D. Williamson, Inc.

Data Sheet No. **SS500-4A**

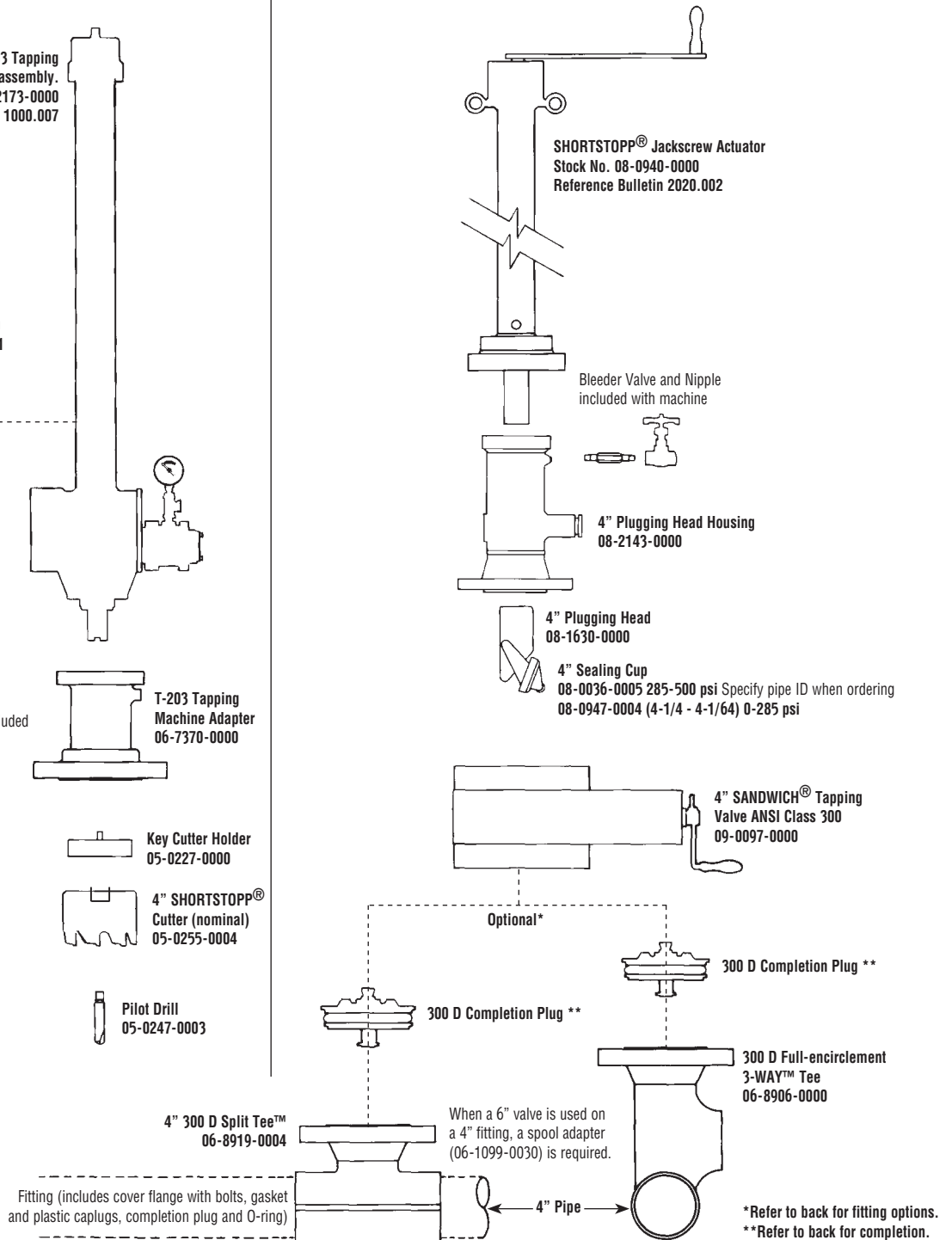
Date: November 2004

Supersedes: September 2002

Tapping



Plugging





T.D. Williamson, Inc.

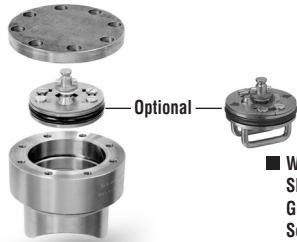
Data Sheet No. **SS500-4A**

Fittings

Tapping and **SHORTSTOPP®** Plugging Machine

4" Gas Main to 500 psi

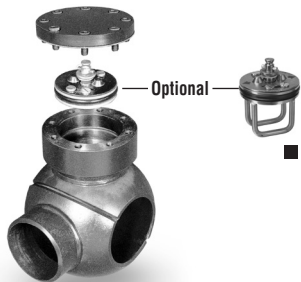
Data Sheet No. **SS500-4A**



Optional

■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013

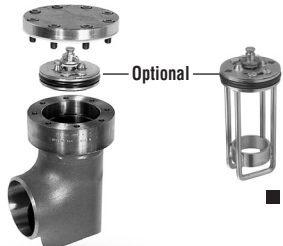
■ **Welding Fitting**
See Bulletin 2100.003



Optional

■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



Optional

■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

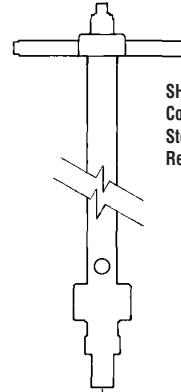
■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001

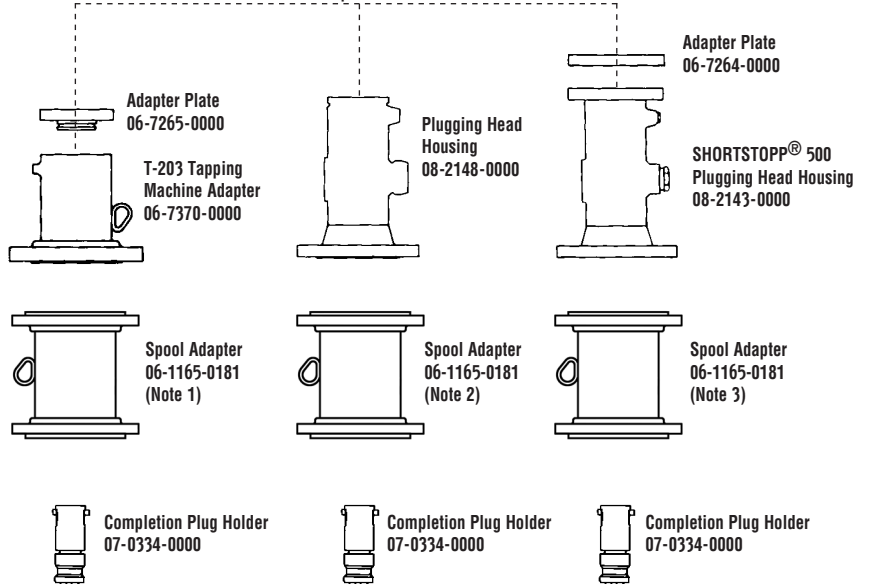
■ **Note:** Consult your TDW representative for additional fitting options.

Completion



SHORTSTOPP® Plugging/Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002

Optional



■ **Note 1:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D Split Tee Fittings using the 06-7370-0000 Housing

■ **Note 2:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2148-0000 Housing

■ **Note 3:** 4-inch Spool Adapter required to set 4-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2143-0000 Housing

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 6" Gas Main to 500 psi



T.D. Williamson, Inc.

Data Sheet No. **SS500-6**

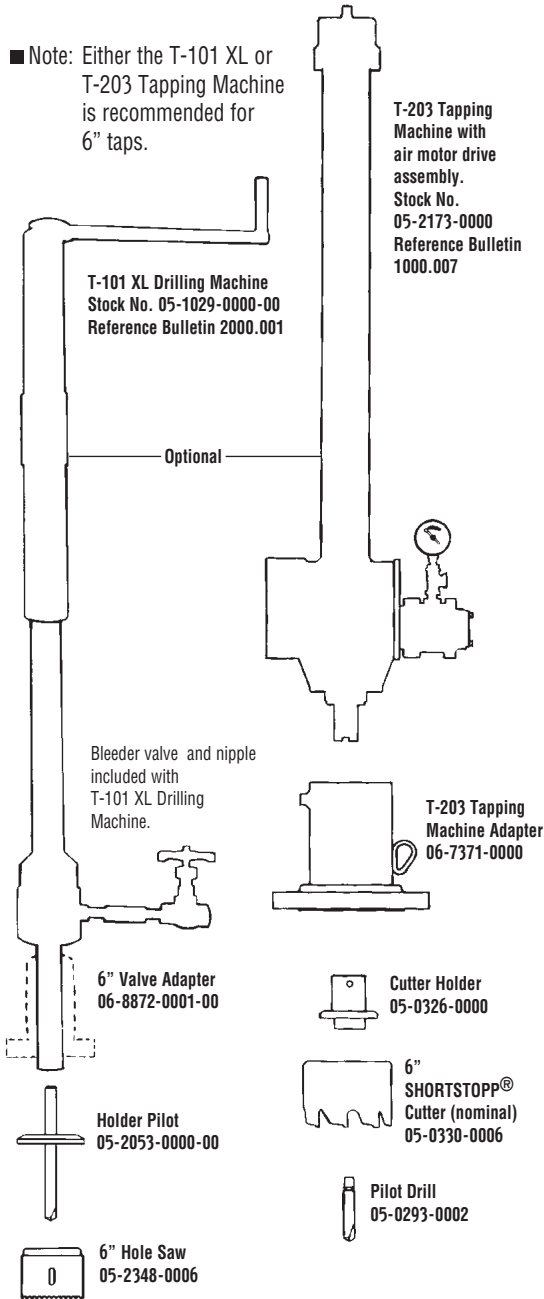
Date: November 2004

Supersedes: September 2002

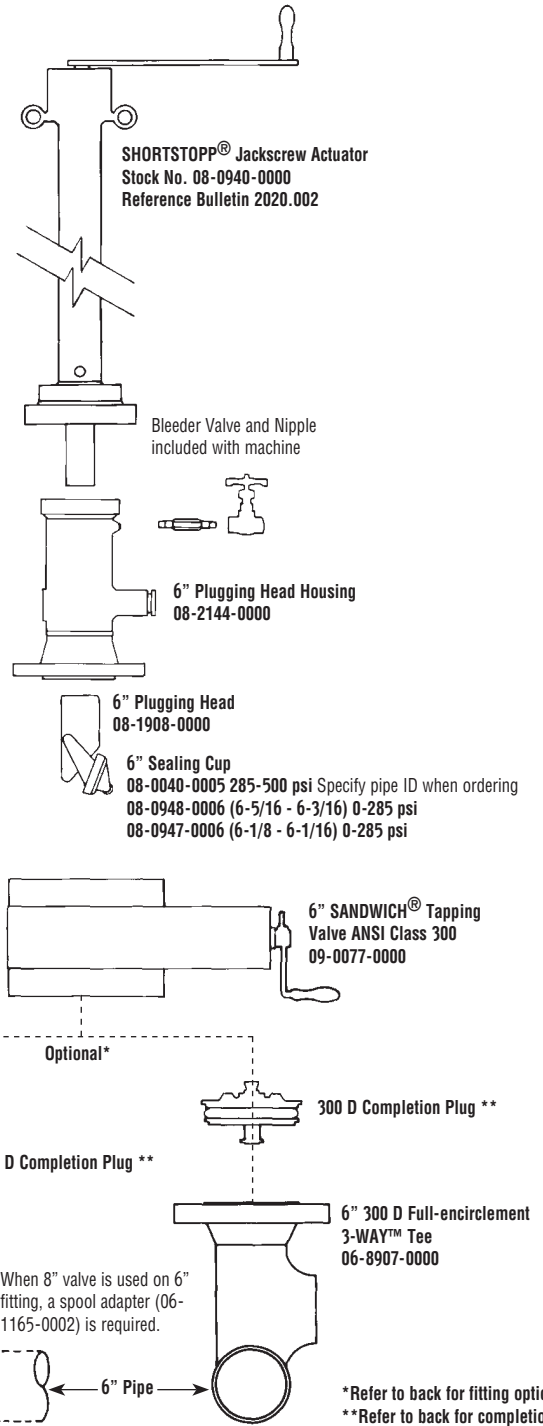
Data Sheet No. SS500-6

Tapping

■ Note: Either the T-101 XL or T-203 Tapping Machine is recommended for 6" taps.



Plugging





T.D. Williamson, Inc.

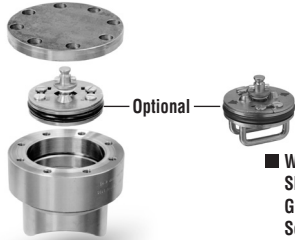
Data Sheet No. SS500-6

Fittings

Tapping and SHORTSTOPP® Plugging Machine

6" Gas Main to 500 psi

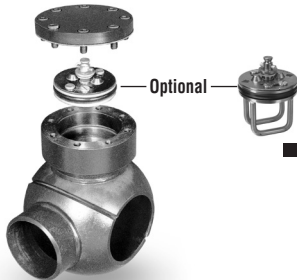
Data Sheet No. SS500-6



Optional

■ Welding Fitting and SHORTPLUG™ with Guide Bars
See Bulletin 2100.013

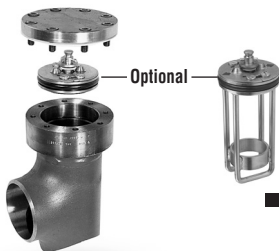
■ Welding Fitting
See Bulletin 2100.003



Optional

■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.014

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



Optional

■ 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.012

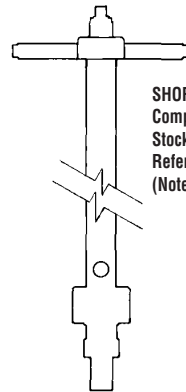
■ 3-WAY™ Tee
See Bulletin 2100.002



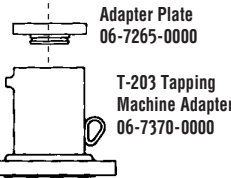
■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001

■ Note: Consult your TDW representative for additional fitting options.

Completion

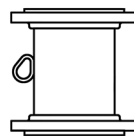


SHORTSTOPP® Plugging/Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002
(Note 3)



Adapter Plate
06-7265-0000

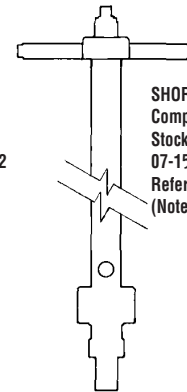
T-203 Tapping Machine Adapter
06-7370-0000



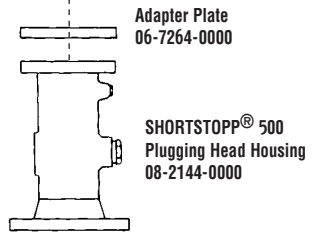
Spool Adapter
06-1165-0182
(Note 1)



Completion Plug Holder
07-0334-0000



SHORTSTOPP® Plugging/Completion Machine
Stock No. 07-1034-0000 or 07-1586-0000
Reference Bulletin 2020.002
(Note 3)



Adapter Plate
06-7264-0000

SHORTSTOPP® 500 Plugging Head Housing
08-2144-0000



Spool Adapter
06-1165-0182
(Note 2)



Completion Plug Holder
07-0334-0000

- Note 1: 6-inch Spool Adapter required to set 6-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP 300D 3-Way™ Tee and Spherical Fittings using the 06-7371-0000 Housing.
- Note 2: 6-inch Spool Adapter required to set 6-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2144-0000 Adapter. Also required is the 07-1586-0000 Completion Machine with 48-inch travel.
- Note 3: 07-1586-0000 Completion Machine with 48-inch travel is required to set 6-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2144-0000 Housing.

Tapping and SHORTSTOPP® Plugging Machine

Equipment Needed to Plug a 8" Gas Main to 500 psi



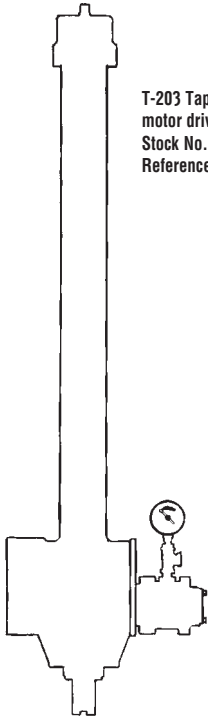
T.D. Williamson, Inc.

Data Sheet No. **SS500-8**

Date: November 2004

Supersedes: September 2004

Tapping



T-203 Tapping Machine with air motor drive assembly.
Stock No. 05-2173-0000
Reference Bulletin 1000.007



T-203 Tapping Machine Adapter
06-7372-0000



Cutter Holder
05-0326-0006

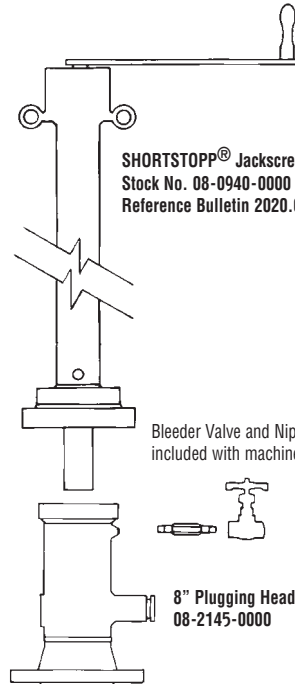


8" SHORTSTOPP®
Cutter (nominal)
05-0330-0008



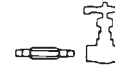
Pilot Drill
05-0293-0003

Plugging



SHORTSTOPP® Jackscrew Actuator
Stock No. 08-0940-0000
Reference Bulletin 2020.002

Bleeder Valve and Nipple
included with machine



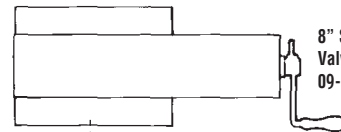
8" Plugging Head Housing
08-2145-0000



8" Plugging Head
08-1909-0000

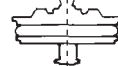
8" Sealing Cup

08-0246-0005 285-500 psi Specify pipe ID when ordering
08-0948-0008 (8-11/32 - 8-1/16) 0-285 psi
08-0947-0008 (8 - 7-31/32) 0-285 psi



8" SANDWICH® Tapping
Valve ANSI Class 300
09-0064-0000

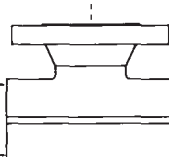
Optional*



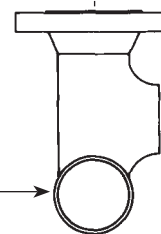
300 D Completion Plug **



300 D Completion Plug **



8" 300 D Split Tee
06-8919-0008



8" 300 D Full-Encirclement
3-WAY™ Tee
06-8908-0000

8" Pipe

*Refer to back for fitting options.
**Refer to back for completion.



T.D. Williamson, Inc.

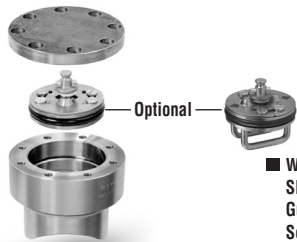
Data Sheet No. SS500-8

Fittings

Tapping and SHORTSTOPP® Plugging Machine

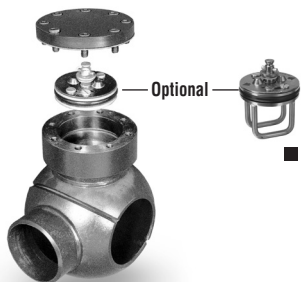
8" Gas Main to 500 psi

Data Sheet No. SS500-8



■ Welding Fitting and SHORTPLUG™ with Guide Bars
See Bulletin 2100.013

■ Welding Fitting
See Bulletin 2100.003



■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.014

■ Spherical 3-WAY™ Tee
See Bulletin 2100.007



■ 3-WAY™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.012

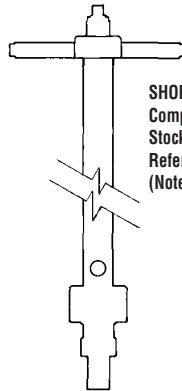
■ 3-WAY™ Tee
See Bulletin 2100.002



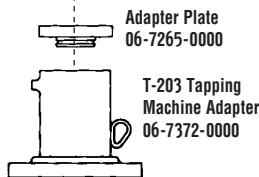
■ Mechanical SHORTSLEEVE™ Fitting
See Bulletin 2110.001

■ Note: Consult your TDW representative for additional fitting options.

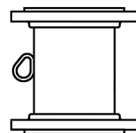
Completion



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002
(Note 3)



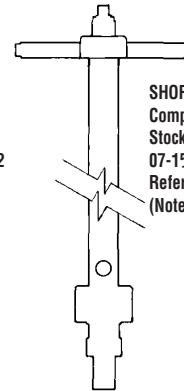
Adapter Plate
06-7265-0000
T-203 Tapping
Machine Adapter
06-7372-0000



Spool Adapter
06-1165-0183
(Note 1)



Completion Plug Holder
07-0334-0000

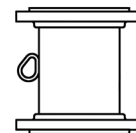


SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000 or
07-1586-0000
Reference Bulletin 2020.002
(Note 3)



Adapter Plate
06-7264-0000

SHORTSTOPP® 500
Plugging Head Housing
08-2145-0000



Spool Adapter
06-1165-0183
(Note 2)



Completion Plug Holder
07-0334-0000

- Note 1: 8-inch Spool Adapter required to set 8-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP 300D 3-Way™ Tee Fittings using the 06-7372-0000 Housing.
- Note 2: 8-inch Spool Adapter required to set 8-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2145-0000 Adapter. Also required is the 07-1586-0000 Completion Machine with 48-inch travel.
- Note 3: 07-1586-0000 Completion Machine with 48-inch travel is required to set 8-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP 300D 3-Way™ Tee Fittings using the 08-2145-0000 Housing.

Tapping and SHORTSTOPP® Plugging Machine

*Equipment Needed to Plug a 10" Gas Main to 500 psi
through a 10-inch 300D Split Tee or Spherical Fitting*



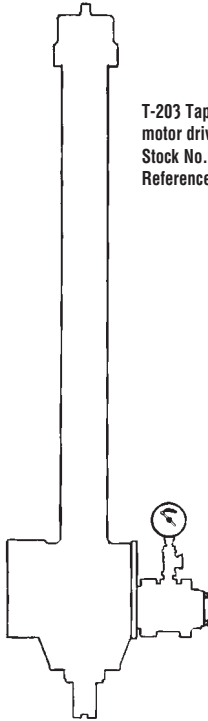
T.D. Williamson, Inc.

Data Sheet No. **SS500-10**

Date: August 2010

Supersedes: May 2010

Tapping



T-203 Tapping Machine with air motor drive assembly.
Stock No. 05-2173-0000
Reference Bulletin 1000.007



T-203 Tapping Machine Adapter
06-7373-0000



Cutter Holder
05-0326-0000

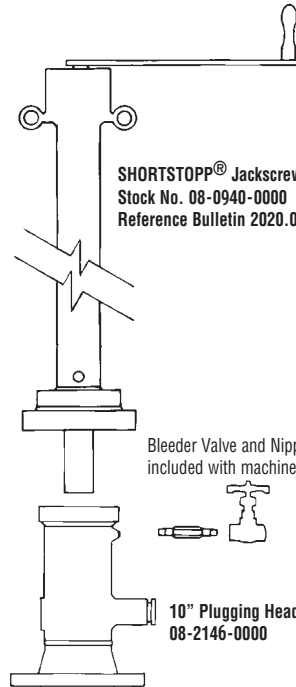


10" SHORTSTOPP®
Cutter (nominal)
05-0330-0010



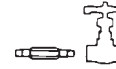
Pilot Drill
05-0293-0004

Plugging



SHORTSTOPP® Jackscrew Actuator
Stock No. 08-0940-0000
Reference Bulletin 2020.002

Bleeder Valve and Nipple
included with machine

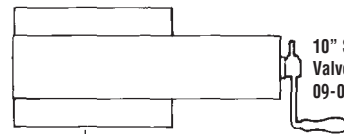


10" Plugging Head Housing
08-2146-0000



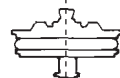
10" Plugging Head
08-1910-0000

10" Sealing Cup
08-0247-0005 285-500 psi Specify pipe ID when ordering
08-0948-0010 (10-3/8 - 10-3/16) 0-285 psi
08-0947-0010 (10-1/8 - 10-1/64) 0-285 psi

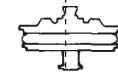


10" SANDWICH® Tapping
Valve ANSI Class 300
09-0106-0000

Optional*



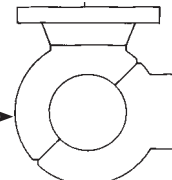
300 D Completion Plug **



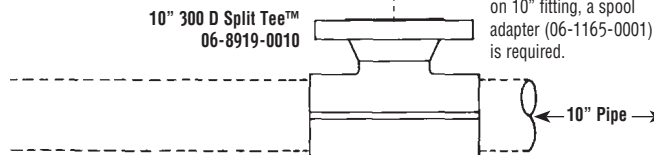
300 D Completion Plug **

10" 300 D Split Tee™
06-8919-0010

When 12" valve is used on 10" fitting, a spool adapter (06-1165-0001) is required.



10" 300 D Spherical 3-WAY™ Tee
26-1141-0000



10" Pipe

*Refer to back for fitting options.
**Refer to back for completion.



T.D. Williamson, Inc.

Data Sheet No. SS500-10

Fittings

Tapping and SHORTSTOPP® Plugging Machine 10" Gas Main to 500 psi through a 10-inch SHORTSTOPP® 300D Split Tee or Spherical Fitting

Data Sheet No. SS500-10



■ 300 D Full-encirclement Split Tee™
See Bulletin 2100.004



■ 300 D Spherical 3-WAY™ Tee
See Bulletin 2100.008

Optional



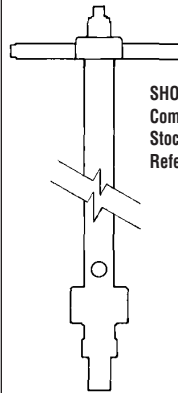
■ SHORTSTOPP® 300D Split Tees
and SHORTPLUG™ with Guide Bars
See Bulletin 2100.004

Optional

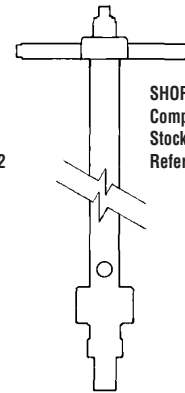


■ 300D Spherical 3-Way™ Tee and
SHORTPLUG™ with Guide Bars
See Bulletin 2100.017

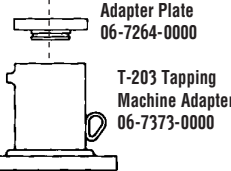
Completion



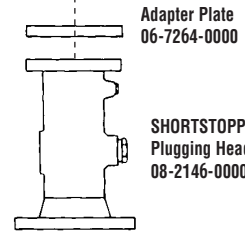
SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1586-0000
Reference Bulletin 2020.002



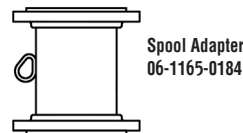
SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



Adapter Plate
06-7264-0000
T-203 Tapping
Machine Adapter
06-7373-0000



Adapter Plate
06-7264-0000
SHORTSTOPP® 500
Plugging Head Housing
08-2146-0000



Spool Adapter
06-1165-0184



Completion Plug Holder
07-0335-0000



Completion Plug Holder
07-0335-0000

■ Note 1: For Tapping and Plugging through a SHORTSTOPP® 300D 3-Way Tee™ see SS500-10A Data Sheet.

■ Note 2: Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® Plugging Machine

*Equipment Needed to Plug a 12" Gas Main to 500 psi
through a 12-inch 300D Split Tee or Spherical Fitting*



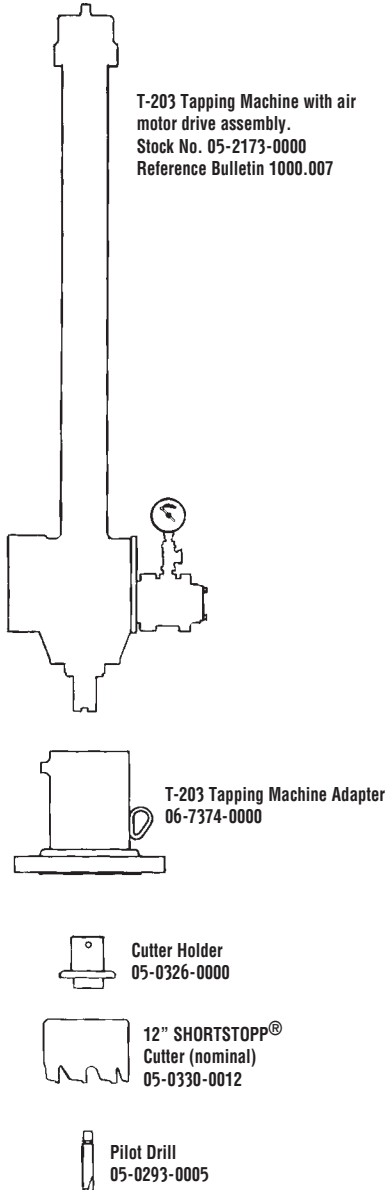
T.D. Williamson, Inc.

Data Sheet No. **SS500-12**

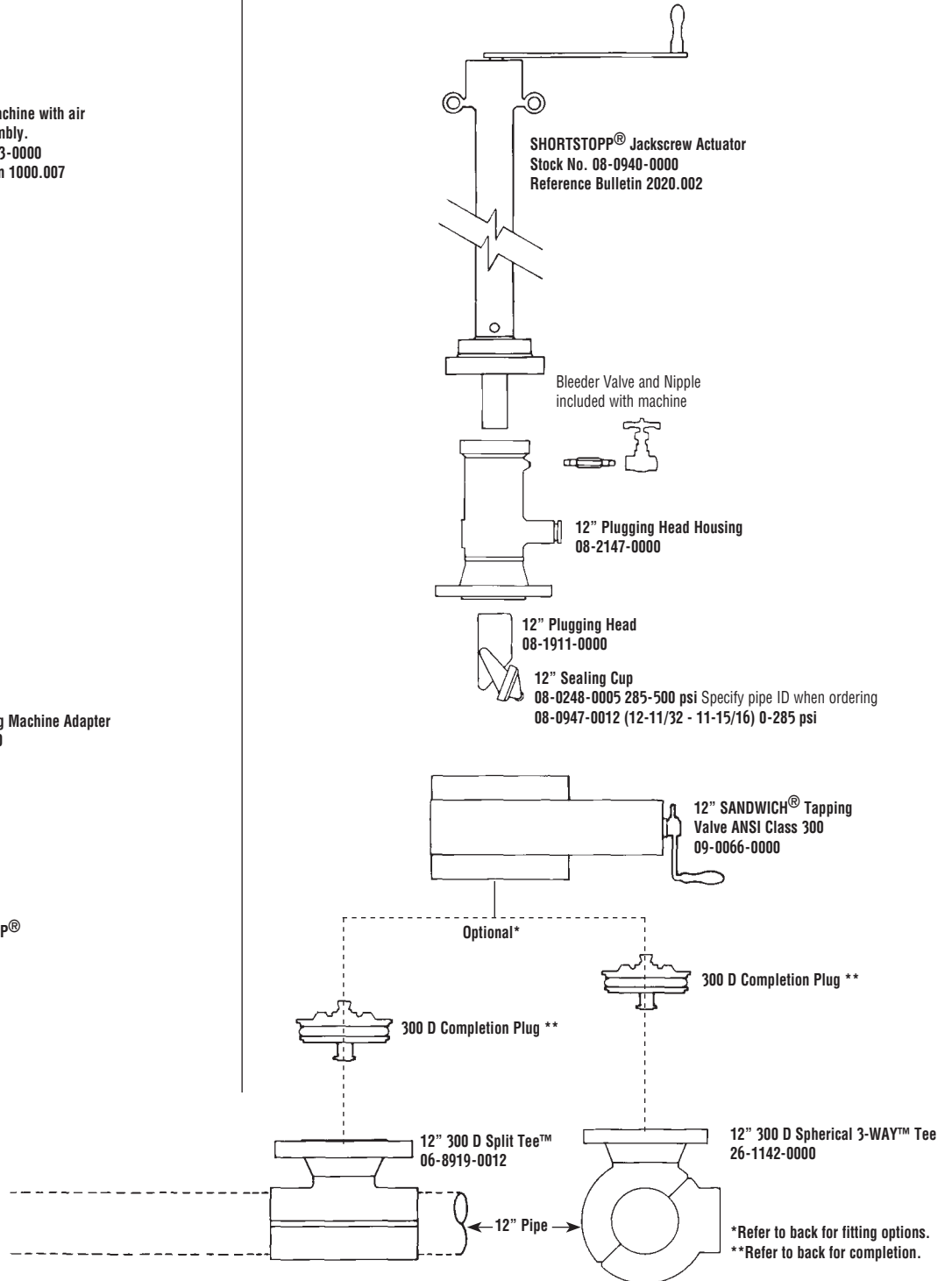
Date: November 2004

Supersedes: October 2002

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. SS500-12

Fittings

Tapping and SHORTSTOPP® Plugging Machine

12-inch Gas Main to 500 psi through a 12-inch SHORTSTOPP® 300D Split Tee or Spherical Fitting

Data Sheet No. SS500-12



■ 300 D Full-encirclement Split Tee™
See Bulletin 2100.004



■ 300 D Spherical 3-WAY™ Tee
See Bulletin 2100.008

Optional



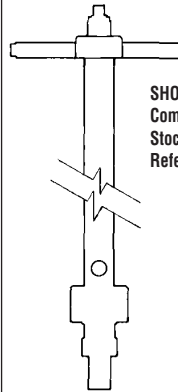
■ SHORTSTOPP® 300D Split Tees and SHORTPLUG™ with Guide Bars
See Bulletin 2100.004

Optional

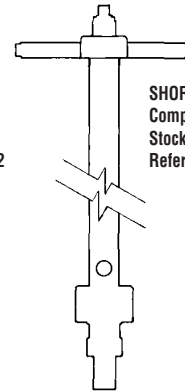


■ 300D Spherical 3-Way™ Tee and SHORTPLUG™ with Guide Bars
See Bulletin 2100.017

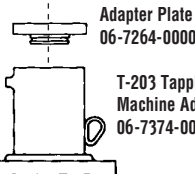
Completion



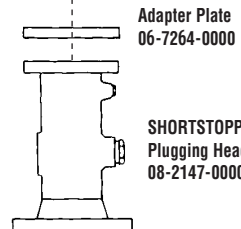
SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



SHORTSTOPP® Plugging/
Completion Machine
Stock No. 07-1034-0000
Reference Bulletin 2020.002



Adapter Plate
06-7264-0000
T-203 Tapping
Machine Adapter
06-7374-0000



Adapter Plate
06-7264-0000
SHORTSTOPP® 500
Plugging Head Housing
08-2147-0000



Completion Plug Holder
07-0335-0000



Completion Plug Holder
07-0335-0000

■ Note 1: For Tapping and Plugging through a SHORTSTOPP® 300D 3-Way Tee™ see SS500-12A Data Sheet.

■ Note 2: Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® Plugging Machine

*Equipment Needed to Plug a 12" Gas Main to 500 psi
through a 12-inch 300D Split Tee or Spherical Fitting*



T.D. Williamson, Inc.

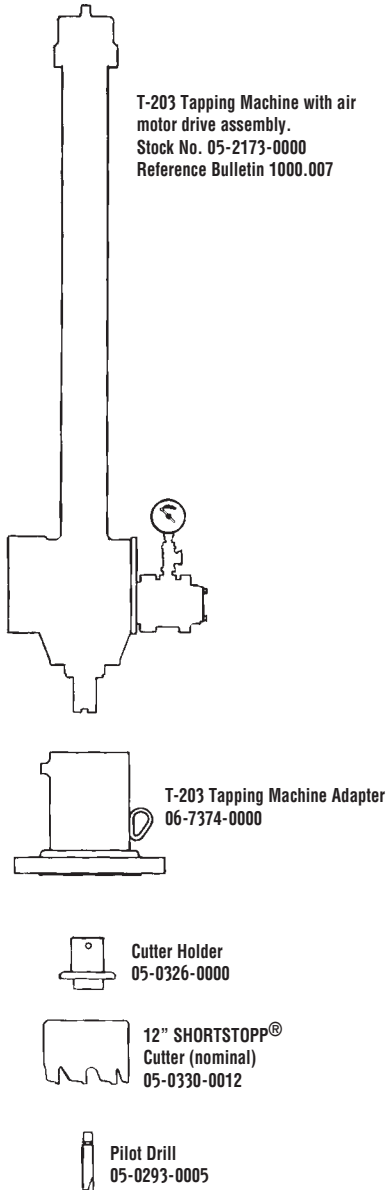
Data Sheet No. SS500-12A

Date: November 2004

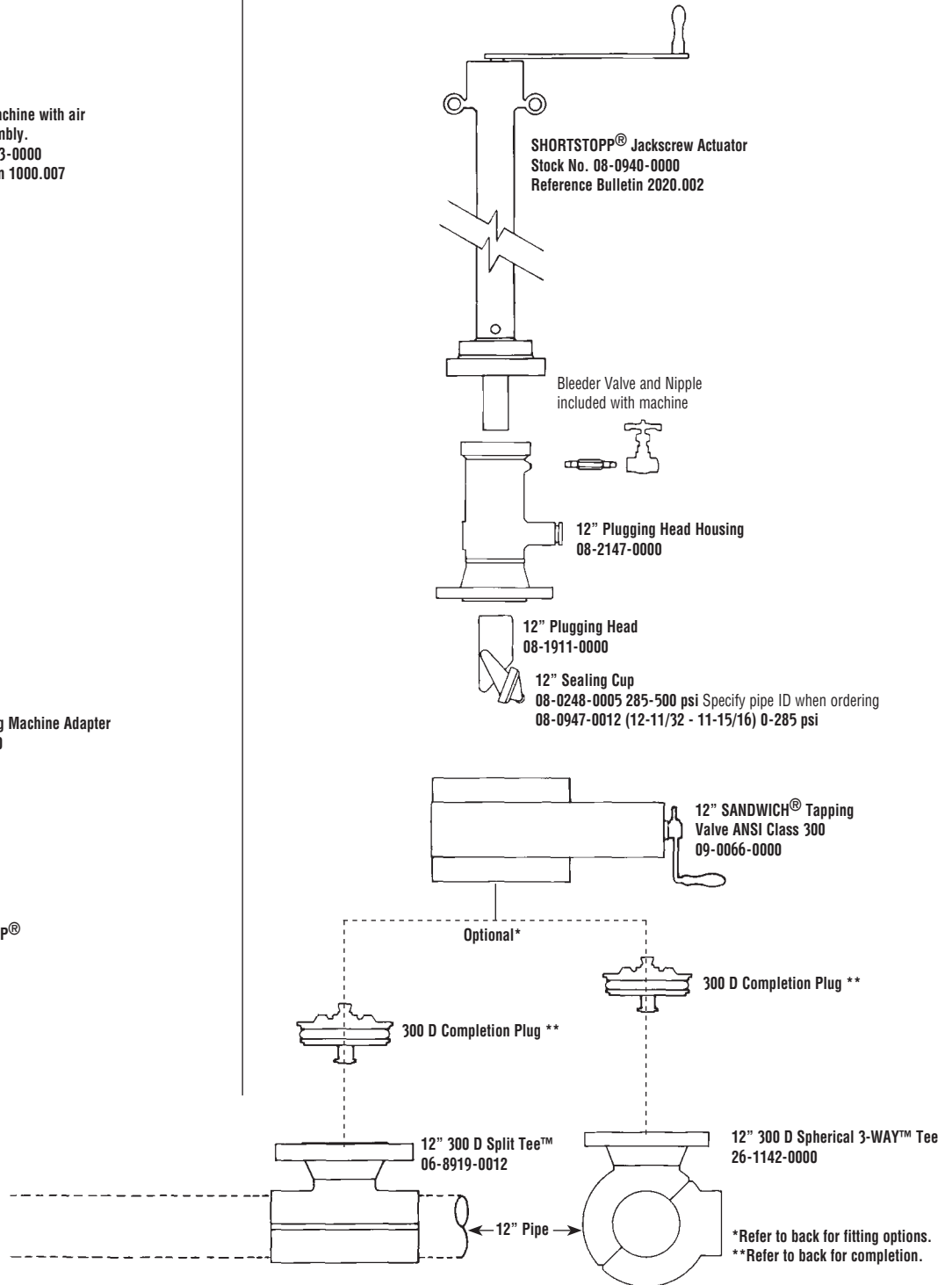
Supersedes: NA

Data Sheet No. SS500-12A

Tapping



Plugging





T.D. Williamson, Inc.

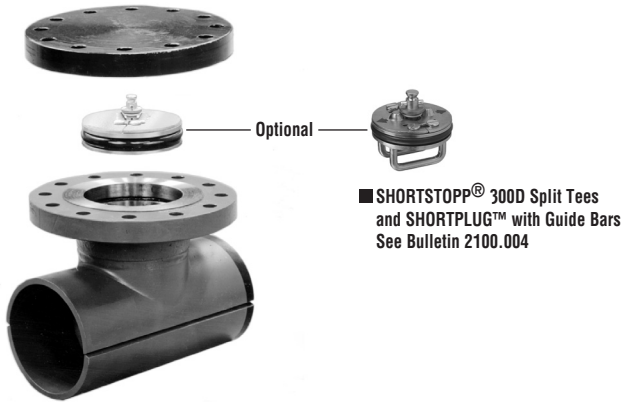
Data Sheet No. SS500-12A

Fittings

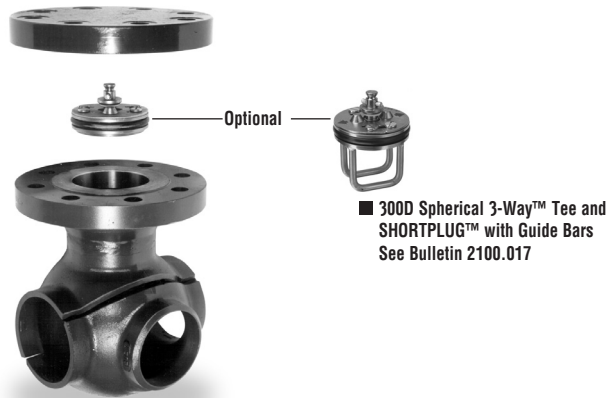
Tapping and SHORTSTOPP® Plugging Machine

12-inch Gas Main to 500 psi through a 12-inch SHORTSTOPP® 300D Split Tee or Spherical Fitting

Data Sheet No. SS500-12A

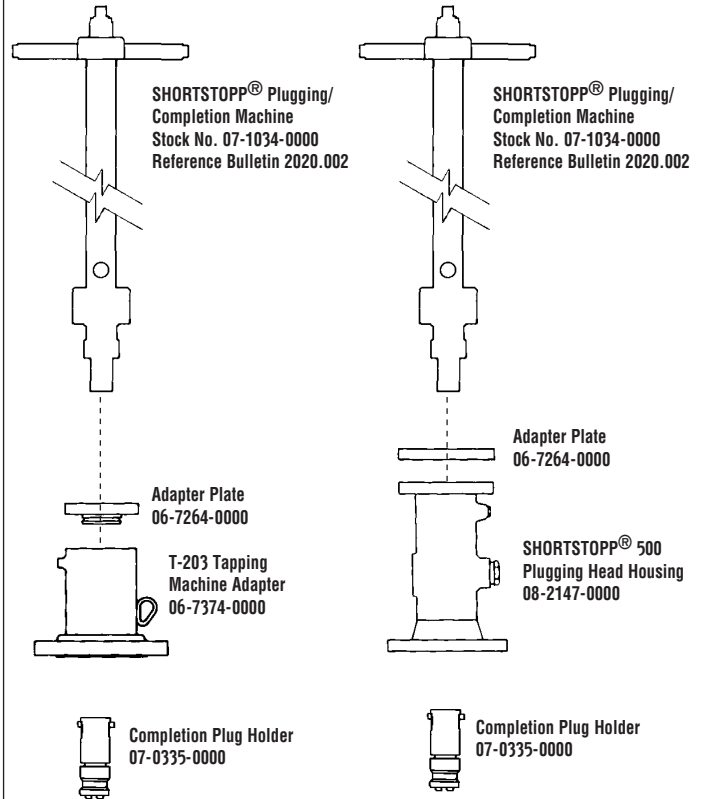


■ 300 D Full-encirclement Split Tee™
See Bulletin 2100.004



■ 300 D Spherical 3-WAY™ Tee
See Bulletin 2100.008

Completion



■ Note 1: For Tapping and Plugging through a SHORTSTOPP® 300D 3-Way Tee™ see SS500-12A Data Sheet.

■ Note 2: Consult your TDW representative for additional fitting options.



SHORTSTOPP® 60

Plugging Machines, Sizes: 1-1/4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2020.001.02

Date: January 2005

Cross Indexing No: n/a

Supersedes: 2020.001.02 (4/04)



■ **SHORTSTOPP® 60**
Plugging Machine
For 2"



■ **SHORTSTOPP® 60**
Plugging Machine
For 6"

Description

The SHORTSTOPP® 60 Plugging Machine is a temporary pipe plugging device which provides an economical, effective way to plug piping under pressure without shutdown.

It can be used to isolate pipe sections for repairs, additions or replacements, to relocate or extend lines, and to tie in new lines, all without interrupting flow.

Features

The SHORTSTOPP 60 Plugging Machine is versatile. It can be easily converted to a completion machine by replacing the plugging head with a plug holder. In some applications, a spool adapter may be required to set the Pig Guide SHORTPLUG®.

An 8" (DN 200) plugging machine can be used to plug either 6-inch (DN 150) or 8-inch lines by using the applicable size plugging head. A 12-inch (DN 300) plugging machine can be similarly adapted to plug both 10-inch (DN 250) and 12-inch lines.

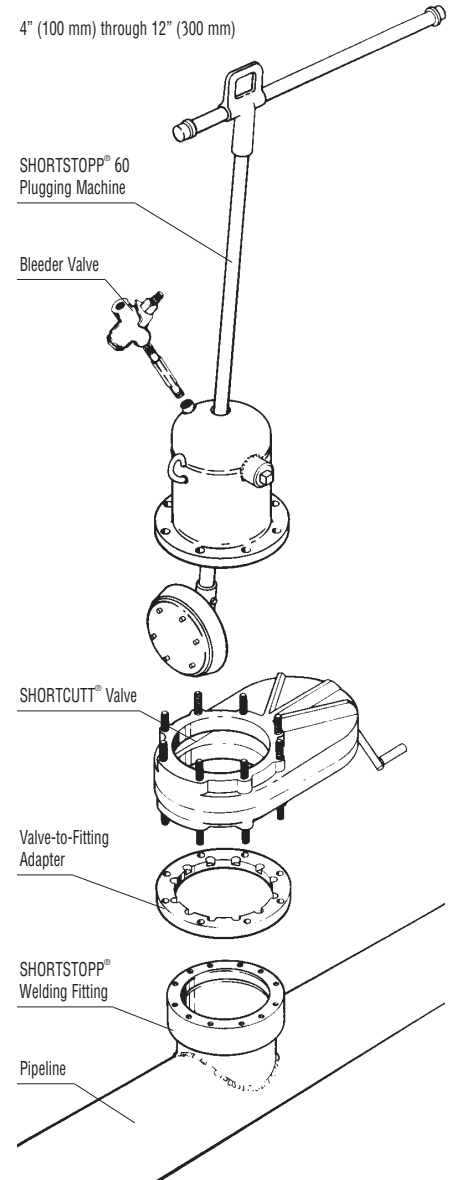
Available in sizes 1-1/4-inch (DN 32) through 12-inch, the SHORTSTOPP 60 Plugging Machine has a maximum operating pressure of 60 psi (4 bar) and a maximum operating temperature of 180PF (82PC).

The plugging machine is easily installed through TDW SHORTCUTT® Valves on SHORTSTOPP® Fittings. These fittings are designed for ASME Class 150 service.

Refer to data sheets.

Typical Setup

4" (100 mm) through 12" (300 mm)



ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® 60 Plugging System

1-1/4" (DN 32) SHORTSTOPP® Plugging Machine

Description	Part Number	Lbs.	Kg.
2" (50 mm) plugging machine with a 1-1/4" (32 mm) plugging head, chip sweep, completion plug holder, valve adapter, punch and punch guide.	08-0351-0000	6-1/2	3
Without the plugging machine. (Plugging head and other components only for use with 2" machine.)	08-0352-0000	1-1/2	1

2" and 3" (DN 50 and DN 80) SHORTSTOPP® Plugging Machine

Description	2" (DN 50)			3" (DN 80)		
	Part Number	Lbs.	Kg.	Part Number	Lbs.	Kg.
Plugging machine with plugging head, chip sweep and completion plug holder.	08-0261-0000	6	3	08-1682-0000	10-1/2	5
Plugging machine with plugging head only.	08-0265-0000	5-1/2	2.5	08-1681-0000	10	5
Completion machine including housing and plug holder assembly with crank throw control bar.	08-0142-0000	6-1/2	3	08-0144-0000	11	5

Bleeder Valves

Bleeder Valve	00-0774-0001
Nipple	00-0220-0001

Bleeder valves are required for bleeding off trapped pressure.

4" through 12" (DN 100 - DN 300) SHORTSTOPP® Plugging Machines

Size	Plugging Machine with Plugging Head and Chip Sweep			*Plugging Head and Chip Sweep only		
	Part Number	Lbs.	Kg.	Part Number	Lbs.	Kg.
4	08-0100-0000	30-1/2	14	--	--	--
6	08-0101-0000	55-1/2	25	08-0326-0000	9	5
8	08-0102-0000	81	37	--	--	--
10**	08-1675-0000	175	79	08-0328-0000	29	13
12	08-0104-0000	191	87	--	--	--

* This additional equipment, plus adapters, is needed to stop off 6" (150 mm) or 10" (250 mm) lines if you already have an 8" (200 mm) or a 12" (300 mm) plugging machine.

** 10" (250 mm) SHORTCUTT® Valve not available. The 10" SHORTSTOPP® Plugging Machine 08-1675-0000 is equipped with 12" (300 mm) housing for use with 12" SHORTCUTT® Valve and 12" x 10" adapter.

Components

Completion Plug Holders					Standard Sealing Cups					*Thin Wall Pipe Sealing Cups		
Size		Weight			Minimum I. D.		Maximum I. D.			Maximum I. D.		
Inches	DN	Part Number	Lbs.	Kg.	Part Number	Inches	mm	Inches	mm	Part Number	Inches	mm
1-1/4	32	08-0367-0001	.4	.2	08-0114-0125	1.312	33.3	1.380	35.1	--	--	--
2	50	08-2301-0000	.8	.4	08-0114-0002	2.067	52.5	2.125	54.0	08-0501-0200	2.157	54.8
3	80	08-2302-0000	1	.5	08-0114-0003	3.068	77.9	3.188	81.0	08-0502-0003	3.260	82.8
4	100	08-0121-0000	3	1	08-0114-0004	4.026	102.3	4.188	106.4	08-0502-0004	4.260	108.2
6	150	08-0122-0000	2 3/8	1	08-0114-0006	6.065	154.0	6.313	160.4	08-0502-0006	6.375	161.9
8	200	08-0123-0000	4	2	08-0114-0008	7.981	202.7	8.281	210.3	08-1719-0008	8.500	215.9
10	250	08-0124-0000	5	2	08-0114-0010	10.020	254.5	10.374	263.5	08-1719-0010	10.625	269.9
12	300	08-0125-0000	10	5	08-0114-0012	11.938	303.2	12.374	314.3	08-1719-0012	12.562	319.1

*Use thin wall cups only when pipe I. D. exceeds the maximum for standard cups.

For adapters, see Bulletin Number 2100.002.00 or 2100.003.00.

For other plugging machine accessories and replacement parts, refer to the SHORTSTOPP® 60 Plugging Machine manual.

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 1-1/4" Gas Main



T.D. Williamson, Inc.

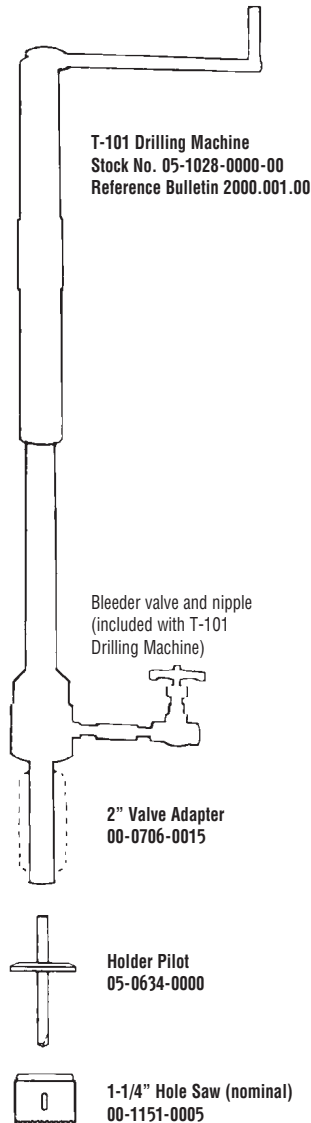
Data Sheet No. SS60-1-1/4

Date: September 2004

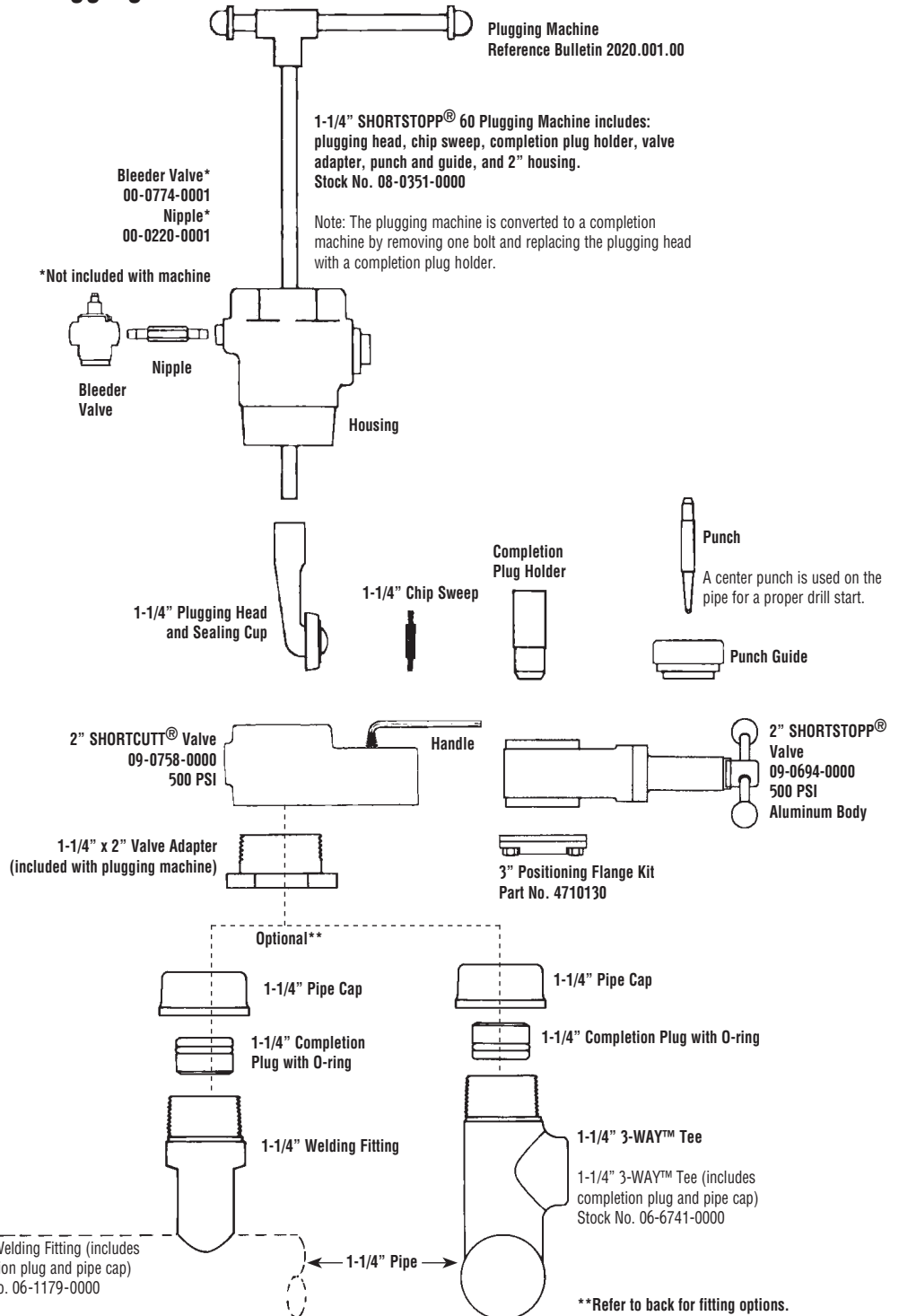
Supersedes: March 1999

Data Sheet No. SS60-1-1/4

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS60-1-1/4**

Fittings

Tapping and **SHORTSTOPP® 60** Plugging Machine 1-1/4" Gas Main



■ **Welding Fitting**
See Bulletin 2100.003



■ **3-WAY™ Tee**
See Bulletin 2100.002

■ Note: Consult your TDW representative for additional fitting options.

■ Note: If you already have 2" SHORTSTOPP® plugging equipment, the additional accessories shown below are all that are needed to plug 1-1/4" mains (plus Welding Fittings).



Part Number
08-0352-0000

1-1/4" Plugging Head and Sealing Cup



1-1/4" Chip Sweep



Completion Plug Holder



Valve Adapter



Punch



Punch Guide

Separate Items



Holder Pilot
05-0634-0000



1-1/4" Hole Saw (nominal)
00-1151-0005

1-1/4" plugging head, chip sweep, completion plug holder, adapter for 2" tapping valve, punch and guide.
Stock No. 08-0352-0000

Data Sheet No. **SS60-1-1/4**

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 2" Gas Main



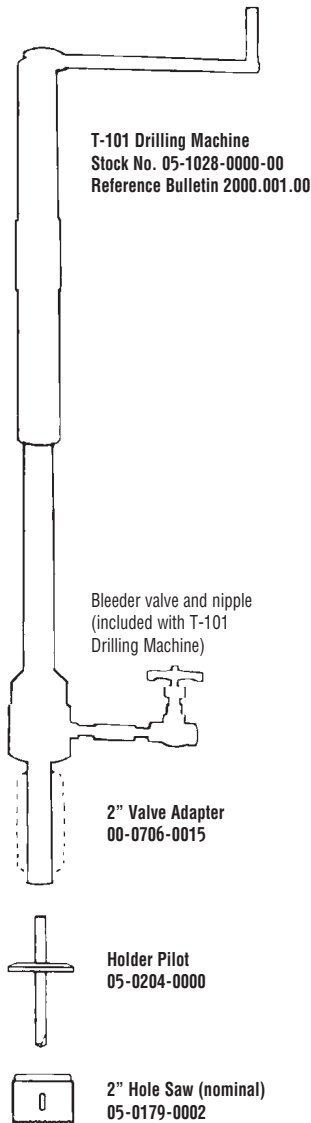
T.D. Williamson, Inc.

Data Sheet No. **SS60-2**

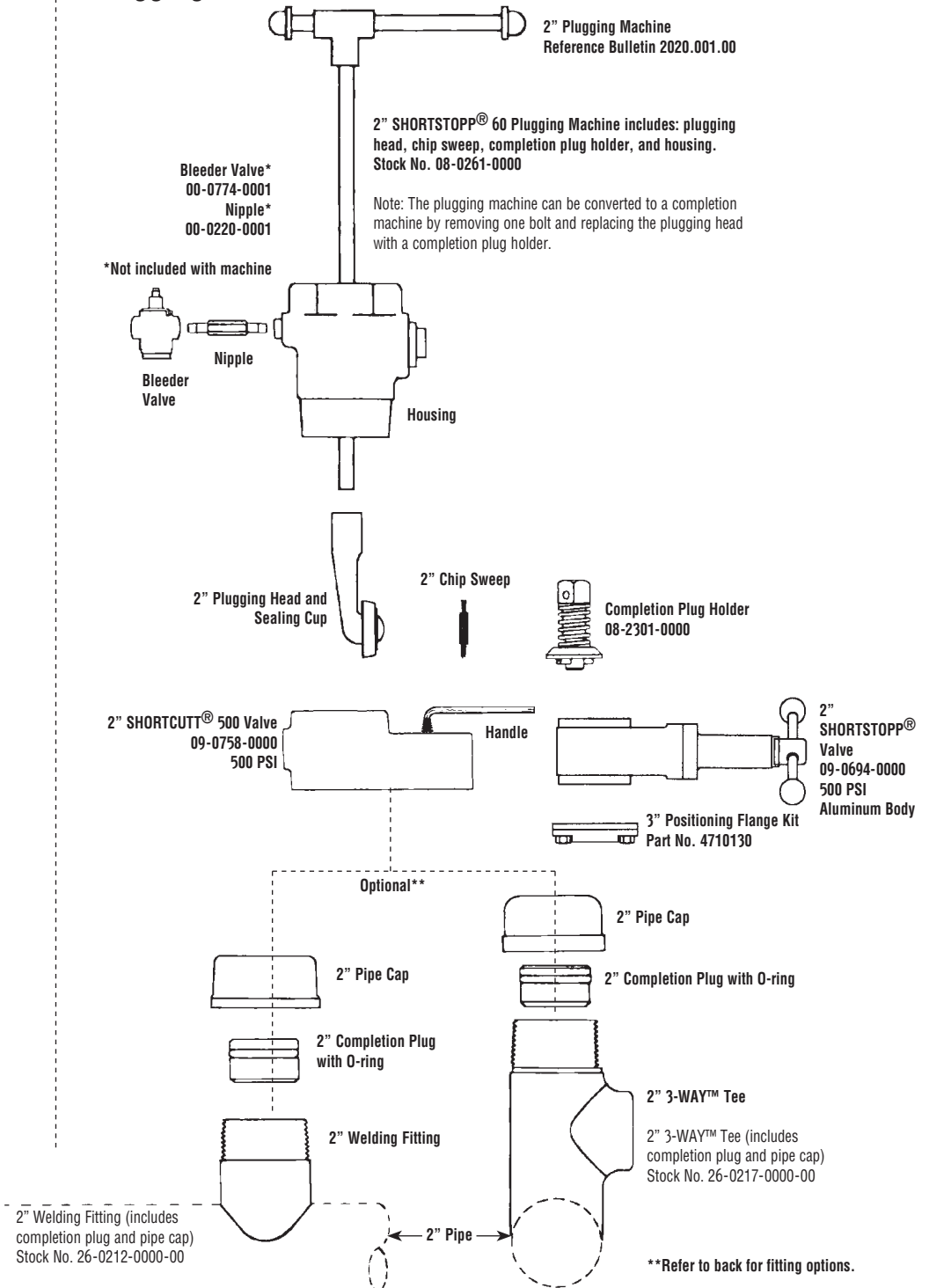
Date: September 2004

Supersedes: March 1999

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS60-2**

Fittings

Tapping and **SHORTSTOPP® 60** Plugging Machine 2" Gas Main



■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



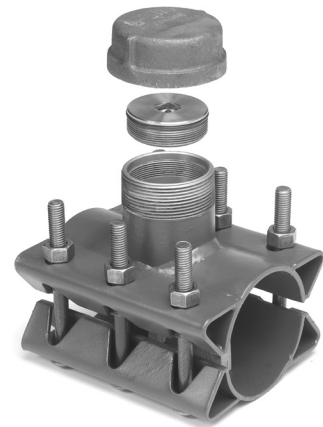
■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2100.002



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® 60 Plugging Machine

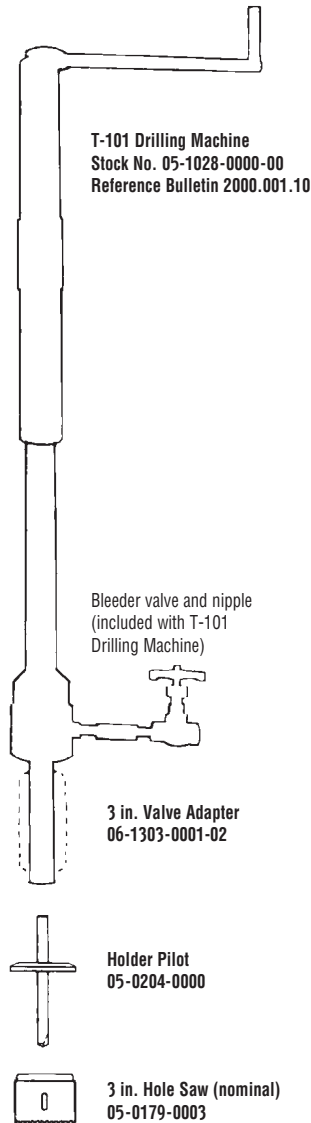
Equipment Needed to Plug a 3 in. Gas Main



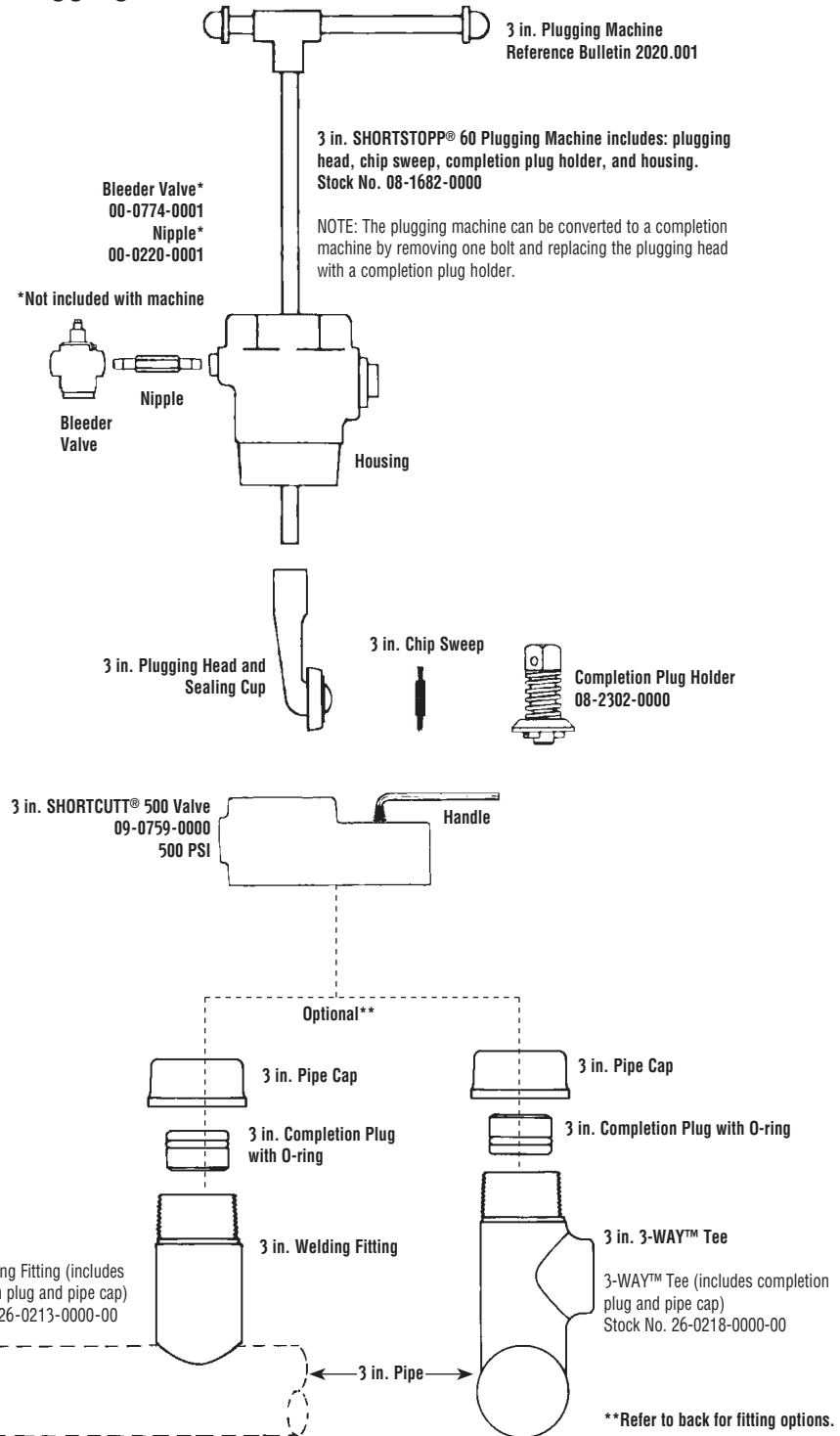
T.D. Williamson, Inc.

Data Sheet No. **SS60-3**
Date: August 2016
Supersedes: September 2004
Reference: TAR002334, ECN008015

Tapping



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS60-3**

Fittings

Tapping and **SHORTSTOPP® 60** Plugging Machine 3 in. Gas Main



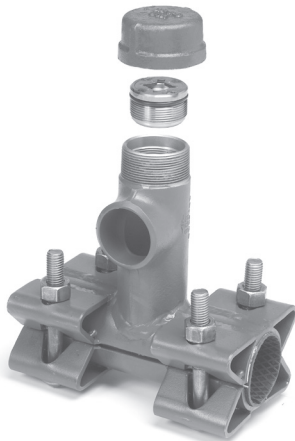
■ **Welding Fitting**
See Bulletin 2100.003



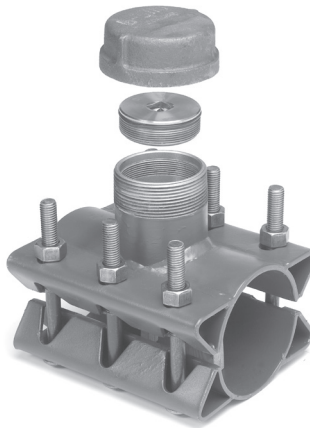
■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011.01



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 4" Gas Main



T.D. Williamson, Inc.

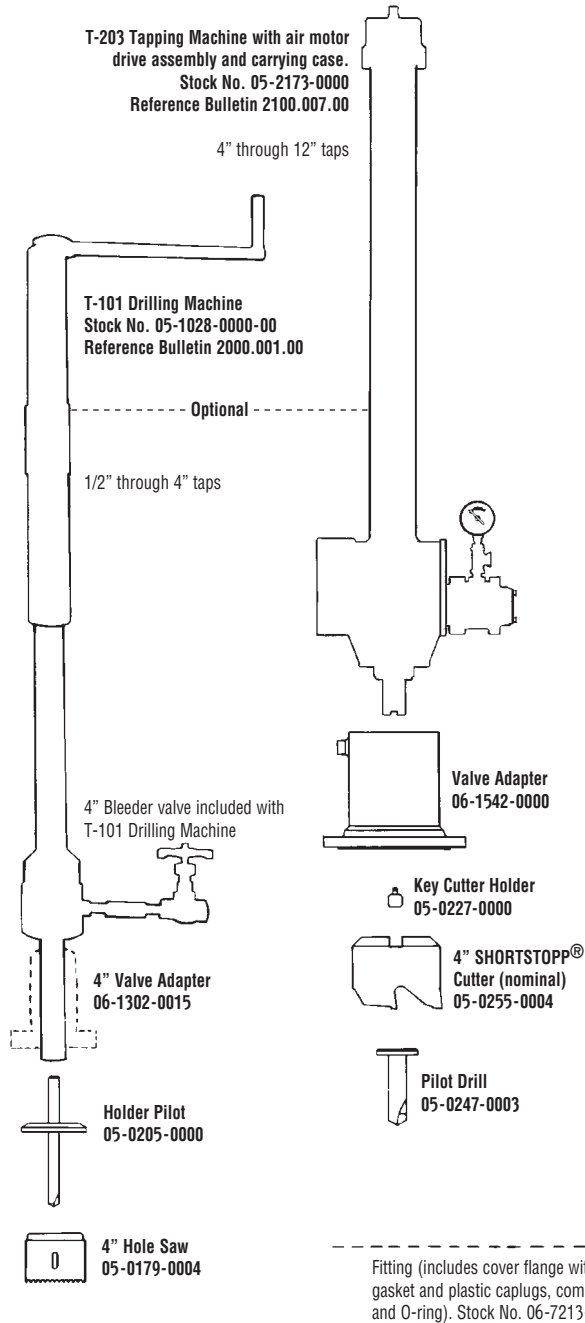
Data Sheet No. **SS60-4**

Date: September 2004

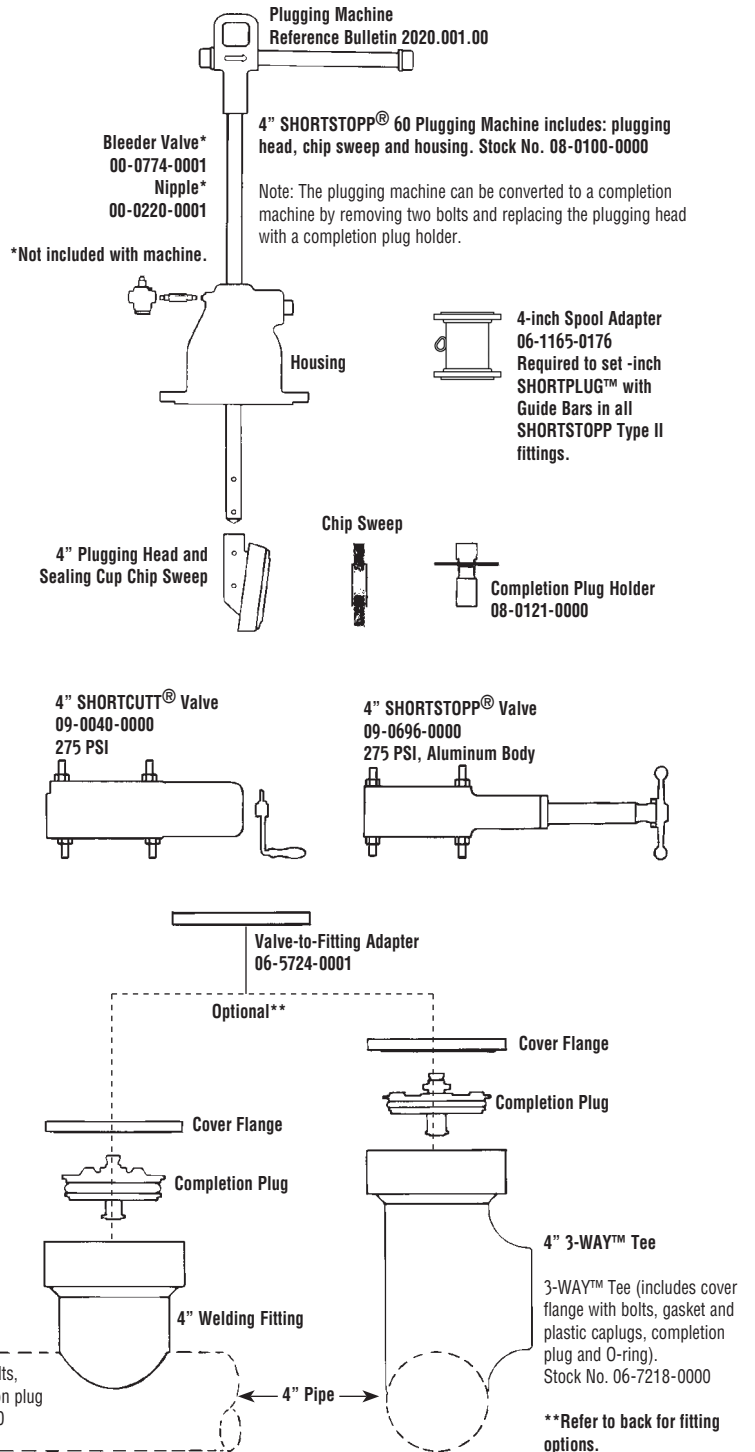
Supersedes: March 1999

Tapping

■ Note: Either the T-101 or T-203 Tapping Machine is recommended for 4" taps.



Plugging





T.D. Williamson, Inc.

Data Sheet No. **SS60-4**

Fittings

Tapping and **SHORTSTOPP**® 60 Plugging Machine 4" Gas Main



■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013



■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014



■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

■ **Welding Fitting**
See Bulletin 2100.003

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007

■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001



■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** Consult your TDW representative for additional fitting options.

Data Sheet No. **SS60-4**

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 6" Gas Main



T.D. Williamson, Inc.

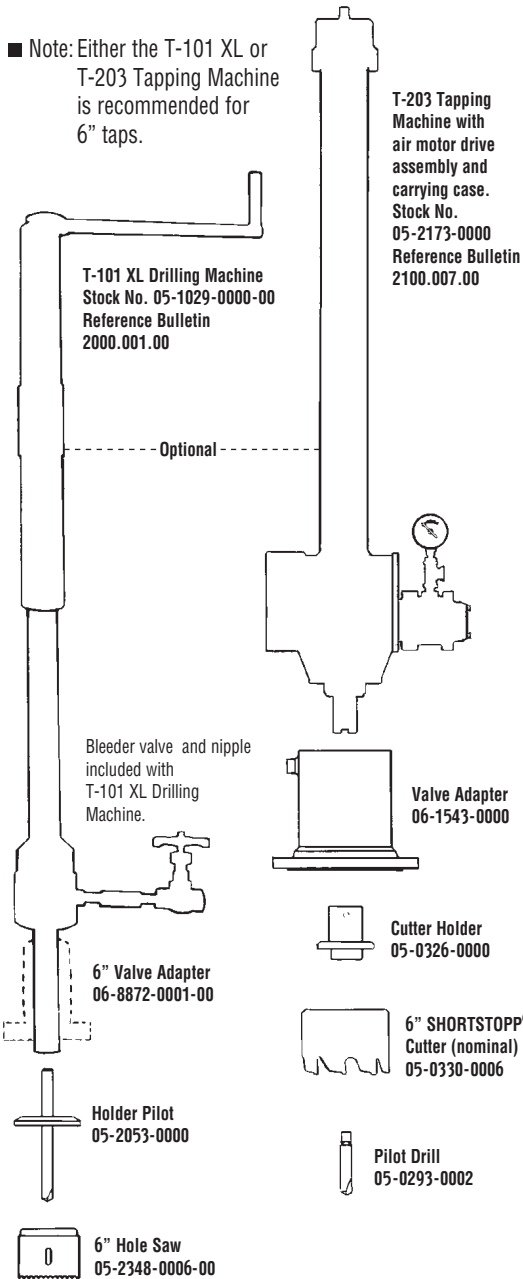
Data Sheet No. **SS60-6**

Date: September 2004

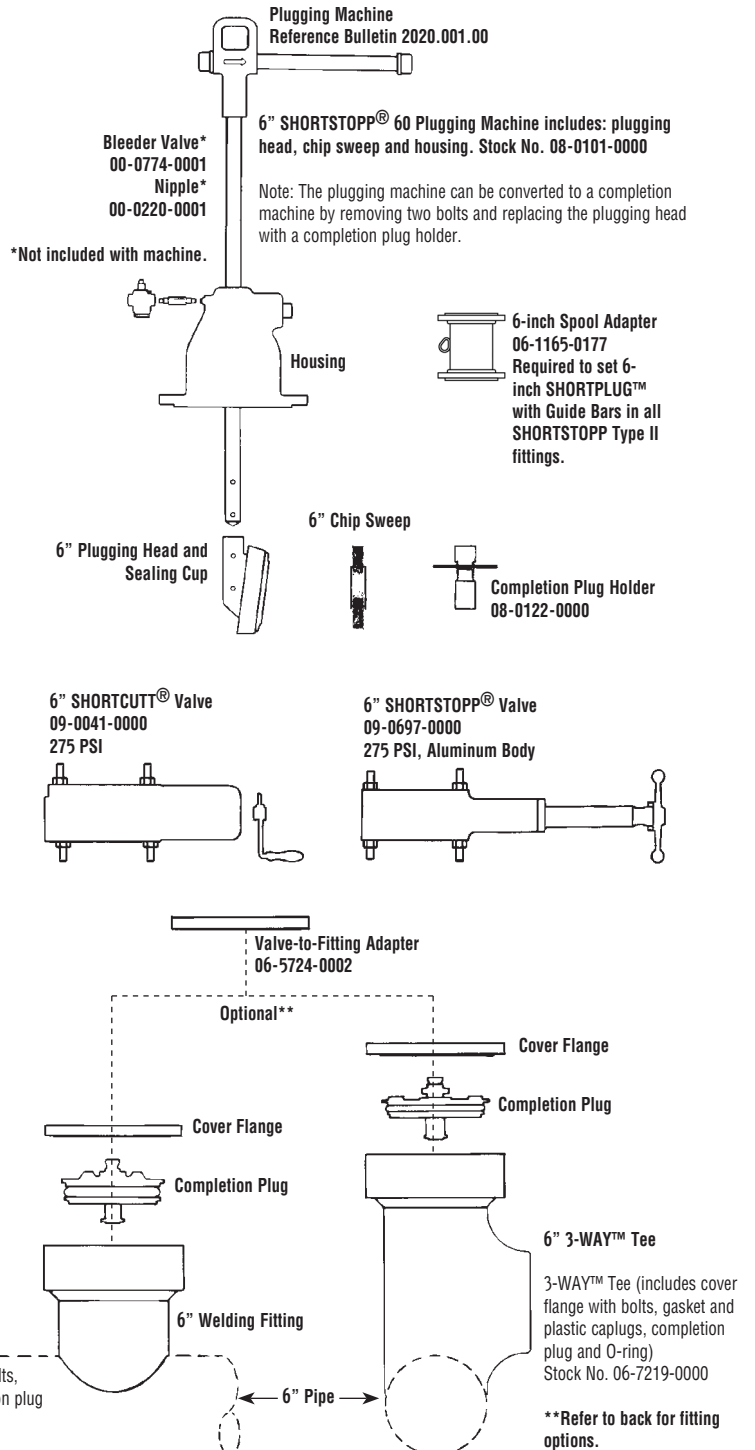
Supersedes: March 1999

Tapping

■ Note: Either the T-101 XL or T-203 Tapping Machine is recommended for 6" taps.



Plugging





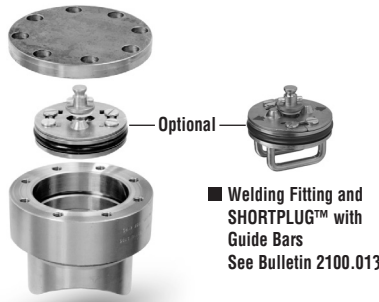
T.D. Williamson, Inc.

Data Sheet No. **SS60-6**

Fittings

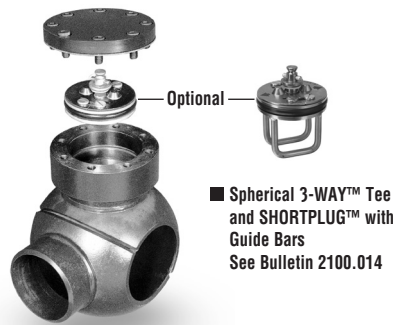
Tapping and **SHORTSTOPP®** 60 Plugging Machine 6" Gas Main

Data Sheet No. **SS60-6**



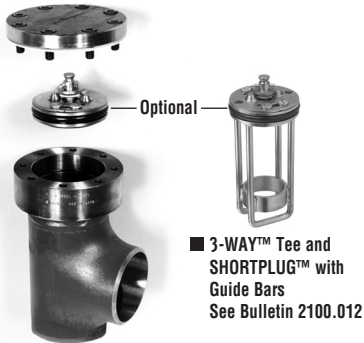
■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013

■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001

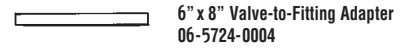


■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** If you already have 8" **SHORTSTOPP®** plugging equipment, the additional accessories shown below are all you need to plug 6" mains (plus Welding Fittings).



6" x 8" Valve-to-Fitting Adapter
06-5724-0004



6" **SHORTSTOPP®** Cutter
(nominal)
05-0330-0006



Pilot Drill
05-0293-0002



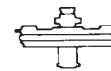
Completion Plug Holder
08-0122-0000



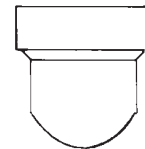
6" Plugging Head with Sealing Cup and Chip Sweep
08-0326-0000



Cover Flange



Completion Plug



Welding Fitting

6" Welding Fitting includes: cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring.
Stock No. 06-7214-0000

■ **Note:** Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 8" Gas Main



T.D. Williamson, Inc.

Data Sheet No. **SS60-8**

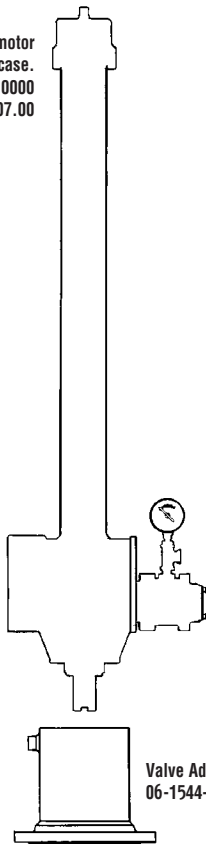
Date: September 2004

Supersedes: March 1999

Tapping

- Note: If you need 6" SHORTSTOPP® plugging equipment, see back of Product Data Sheet.

T-203 Tapping Machine with air motor drive assembly and carrying case.
Stock No. 05-2173-0000
Reference Bulletin 2100.007.00



Valve Adapter
06-1544-0000



Cutter Holder
05-0326-0000



8" SHORTSTOPP®
Cutter (nominal)
05-0330-0008



Pilot Drill
05-0293-0003

Fitting (includes cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring) Stock No. 06-7215-0000

Plugging

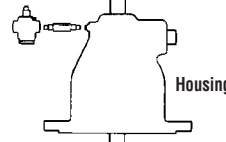
Plugging Machine
Reference Bulletin 2020.001.00

Bleeder Valve*
00-0774-0001
Nipple*
00-0220-0001

*Not included with machine.

8" SHORTSTOPP® 60 Plugging Machine includes: plugging head, chip sweep and housing. Stock No. 08-0102-0000

Note: The plugging machine can be converted to a completion machine by removing two bolts and replacing the plugging head with a completion plug holder.



Housing



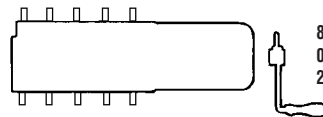
8-inch Spool Adapter
06-1165-0178
Required to set 8-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP Type II fittings.

8" Plugging Head and Sealing Cup

8" Chip Sweep



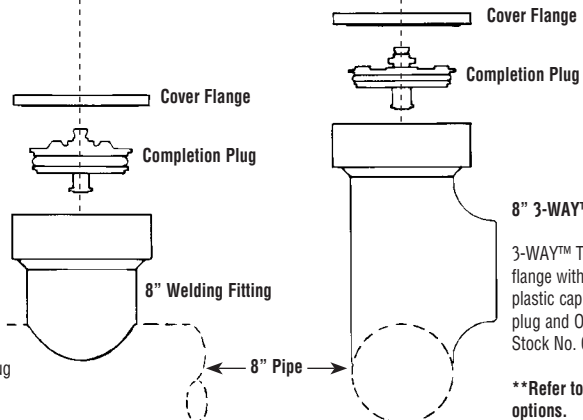
Completion Plug Holder
08-0123-0000



8" SHORTCUTT® Valve
09-0042-0000
275 PSI

Valve-to-Fitting Adapter
06-5724-0003

Optional**



Cover Flange

Completion Plug

Cover Flange

Completion Plug

8" Welding Fitting

8" 3-WAY™ Tee

3-WAY™ Tee (includes cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring)
Stock No. 06-7220-0000

8" Pipe

**Refer to back for fitting options.



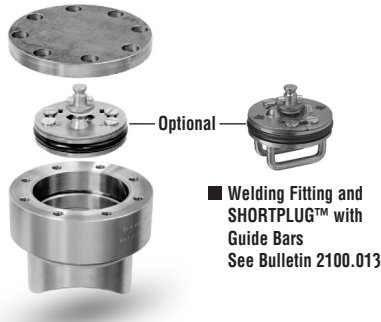
T.D. Williamson, Inc.

Data Sheet No. **SS60-8**

Fittings

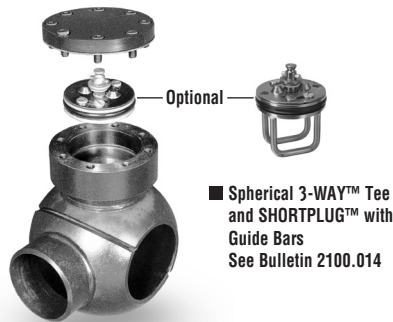
Tapping and **SHORTSTOPP® 60** Plugging Machine 8" Gas Main

Data Sheet No. **SS60-8**



■ **Welding Fitting**
See Bulletin 2100.003

■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013



■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007

■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014



■ **3-WAY™ Tee**
See Bulletin 2100.002

■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001




■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** If you already have 8" **SHORTSTOPP®** plugging equipment, the additional accessories shown below are all that are needed to plug 6" mains (plus Welding Fittings).

 **6" x 8" Valve-to-Fitting Adapter**
06-5724-0004

 **6" **SHORTSTOPP®** Cutter**
(nominal)
05-0330-0006

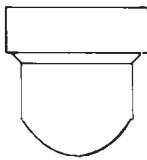
 **Pilot Drill**
05-0293-0002

 **Completion Plug Holder**
08-0122-0000

 **6" Plugging Head with Sealing Cup and Chip Sweep**
08-0326-0000

 **Cover Flange**

 **Completion Plug**

 **Welding Fitting**
6" Welding Fitting includes:
cover flange with bolts, gasket
and plastic caplugs, completion
plug and O-ring.
Stock No. 06-5713-0000

■ **Note:** Consult your TDW representative for additional fitting options.

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 10" Gas Main



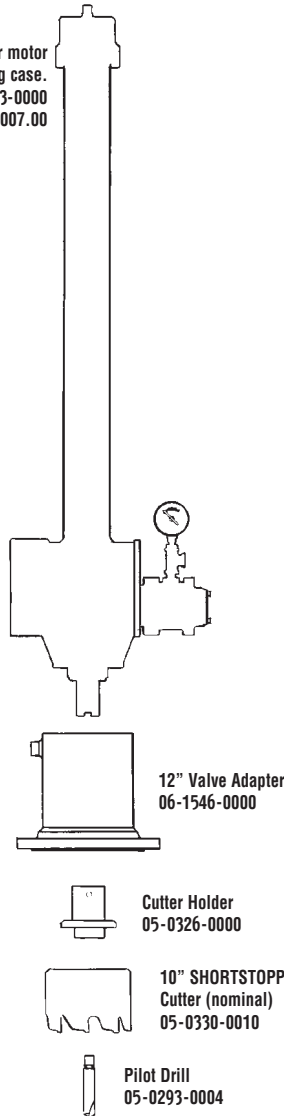
T.D. Williamson, Inc.

Data Sheet No. **SS60-10**
Date: September 2004
Supersedes: March 1999

Tapping

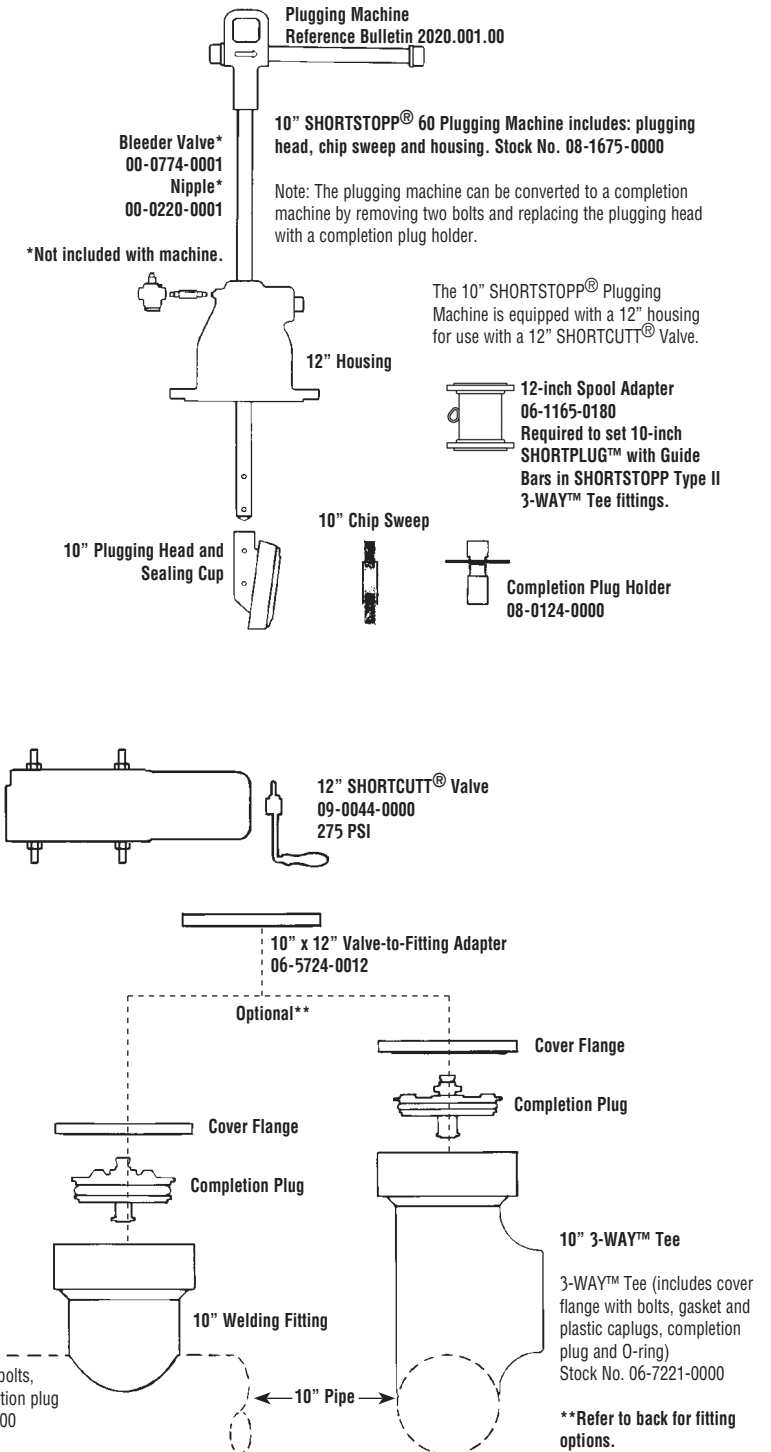
- Note: If you have 12" SHORTSTOPP® plugging equipment, see back of Product Data Sheet.

T-203 Tapping Machine with air motor drive assembly and carrying case.
Stock No. 05-2173-0000
Reference Bulletin 2100.007.00



Fitting (includes cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring) Stock No. 06-7216-0000

Plugging



The 10" SHORTSTOPP® Plugging Machine is equipped with a 12" housing for use with a 12" SHORTCUTT® Valve.

12-inch Spool Adapter
06-1165-0180
Required to set 10-inch SHORTPLUG™ with Guide Bars in SHORTSTOPP Type II 3-WAY™ Tee fittings.



T.D. Williamson, Inc.

Data Sheet No. **SS60-10**

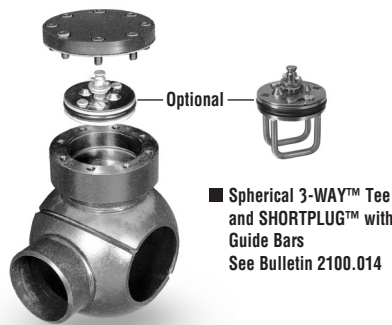
Fittings

Tapping and **SHORTSTOPP® 60** Plugging Machine 10" Gas Main



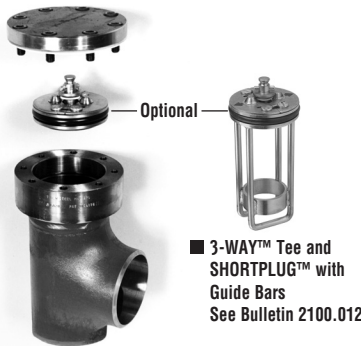
■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013

■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001




■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** If you already have 12" **SHORTSTOPP®** plugging equipment, the additional accessories shown below are all that are needed to plug 10" mains (plus Welding Fittings).

 **10" x 12" Valve-to-Fitting Adapter**
06-5724-0012


 **10" **SHORTSTOPP®** Cutter (nominal)**
05-0330-0010

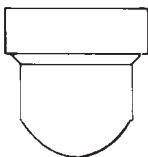
 **Pilot Drill**
05-0293-0004

 **Completion Plug Holder**
08-0124-0000

 **10" Plugging Head, Sealing Cup and Chip Sweep**
08-0328-0000

 **Cover Flange**

 **Completion Plug**

 **Welding Fitting**
10" Welding Fitting includes: cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring.
Stock No. 06-7216-0000

10" **SHORTCUTT®** Valve not available. The 10" **SHORTSTOPP®** Plugging Machine is equipped with 12" housing for use with 12" **SHORTCUTT®** Valve and 10" x 12" adapter.

■ **Note:** Consult your TDW representative for additional fitting options.

Data Sheet No. **SS60-10**

Tapping and SHORTSTOPP® 60 Plugging Machine

Equipment Needed to Plug a 12" Gas Main



T.D. Williamson, Inc.

Data Sheet No. SS60-12

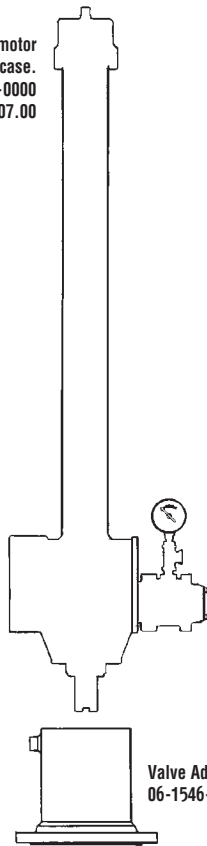
Date: September 2004

Supersedes: March 1999

Tapping

■ Note: If you have 10" SHORTSTOPP® plugging equipment, see back of Product Data Sheet.

T-203 Tapping Machine with air motor drive assembly and carrying case.
Stock No. 05-2173-0000
Reference Bulletin 2100.007.00



Valve Adapter
06-1546-0000



Cutter Holder
05-0326-0000



12" SHORTSTOPP®
Cutter (nominal)
05-0330-0012



Pilot Drill
05-0247-0004

Fitting (includes cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring) Stock No. 06-7217-0000

Plugging

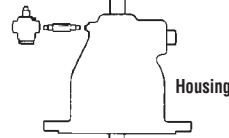
Plugging Machine
Reference Bulletin 2020.001.00

Bleeder Valve*
00-0774-0001
Nipple*
00-0220-0001

*Not included with machine.

12" SHORTSTOPP® 60 Plugging Machine includes: plugging head, chip sweep and housing. Stock No. 08-0104-0000

Note: The plugging machine can be converted to a completion machine by removing two bolts and replacing the plugging head with a completion plug holder.



Housing



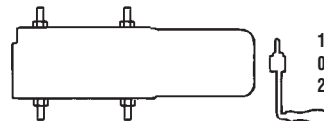
12-inch Spool Adapter
06-1165-0178
Required to set 12-inch SHORTPLUG™ with Guide Bars in all SHORTSTOPP Type II fittings.

12" Plugging Head and Sealing Cup

12" Chip Sweep



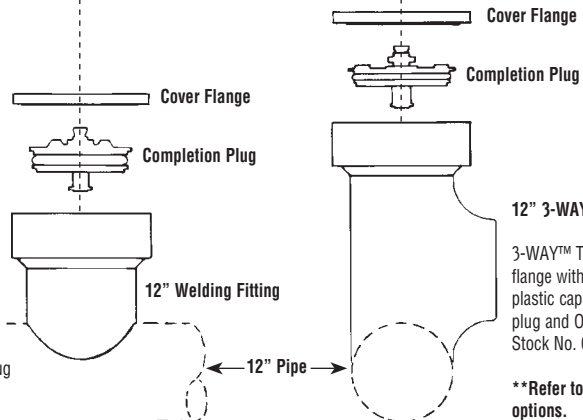
Completion Plug Holder
08-0125-0000



12" SHORTCUTT® Valve
09-0044-0000
275 PSI

Valve-to-Fitting Adapter
06-5724-0011

Optional**



Cover Flange

Completion Plug

Cover Flange

Completion Plug

12" Welding Fitting

12" Pipe

12" 3-WAY™ Tee

3-WAY™ Tee (includes cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring)
Stock No. 06-7222-0000

**Refer to back for fitting options.

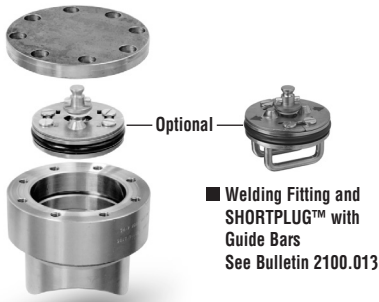


T.D. Williamson, Inc.

Data Sheet No. **SS60-12**

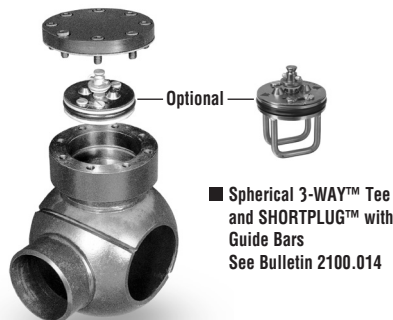
Fittings

Tapping and **SHORTSTOPP® 60** Plugging Machine 12" Gas Main



■ **Welding Fitting and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.013

■ **Welding Fitting**
See Bulletin 2100.003



■ **Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.014

■ **Spherical 3-WAY™ Tee**
See Bulletin 2100.007



■ **3-WAY™ Tee and SHORTPLUG™ with Guide Bars**
See Bulletin 2100.012

■ **3-WAY™ Tee**
See Bulletin 2100.002



■ **Mechanical SHORTSLEEVE™ Fitting**
See Bulletin 2110.001.00




■ **Branch Type II 3-WAY™ Tee**
See Bulletin 2100.011



■ **Branch Type II Plugging Fitting**
See Bulletin 2100.010

■ **Note:** If you already have 12" **SHORTSTOPP®** plugging equipment, the additional accessories shown below are all that are needed to plug 10" mains (plus Welding Fittings).

 **10" x 12" Valve-to-Fitting Adapter**
06-5724-0012


 **10" **SHORTSTOPP®** Cutter (nominal)**
05-0330-0010

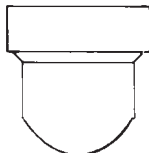
 **Pilot Drill**
05-0293-0004

 **Completion Plug Holder**
08-0124-0000

 **10" Plugging Head, Sealing Cup and Chip Sweep**
08-0328-0000

 **Cover Flange**

 **Completion Plug**

 **Welding Fitting**
10" Welding Fitting includes: cover flange with bolts, gasket and plastic caplugs, completion plug and O-ring.
Stock No. 06-7216-0000

10" **SHORTCUTT®** Valve not available. The 10" **SHORTSTOPP®** Plugging Machine is equipped with 12" housing for use with 12" **SHORTCUTT®** Valve and 10" x 12" adapter.

■ **Note:** Consult your TDW representative for additional fitting options.



SHORTSTOPP® PE System

Sizes: 4-inches and Larger



T.D. Williamson, Inc.

Bulletin No: **2080.002.00**

Date: February 2004

Cross Indexing No: n/a

Supersedes: n/a



■ **PS 2000 XL® Drilling Machine**



■ **SHORTSTOPP® II Plugging System**

Description

T.D. Williamson, Inc. provides customers with a sound alternative to squeezing a PE line when you want to branch, reroute or relocate a system. The TDW SHORTSTOPP PE System provides a sound alternative to squeezing a PE line when you want to branch, reroute or relocate a system. The system is built on proven, patented pressure control technology that uses more than 80 years of experience in maintaining pipelines and piping systems around the world. Stopping flow using the SHORTSTOPP Plugging system instead of squeezing at two places eliminates stress points, maintaining the line's integrity.

The system includes fittings for 4, 6 and 8-inch lines which enables you to attach a branch line.

The branch line keeps a low profile because it is a "bottom out" branch. At a later date, the branch line can be temporarily plugged if necessary. Additionally, 4 and 6-inch fittings permit plugging the main with the SHORTSTOPP II Plugging System.

Features

- Minimum excavation required in comparison to typical squeezing operation
- Pipe support assembly supports weight of tapping valve, drilling and plugging machines
- Uses fewer auxiliary fittings, couplings and

piping than required in a typical squeezing operation

- Threaded completion plug permits removal of all equipment when work is done, including tapping valve
- Existing SHORTSTOPP equipment owners simply need to add products to complete the system. Or, you can choose TDW's turnkey service option
- TDW provides excellent training opportunities -- at your site or ours.

Options

Optional equipment could include:

- Bottom plugger for use with drilling machine
- Chip evacuator for removing post-tapping chips

Patented in the United States and in foreign countries.
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® II Plugging System

SHORTSTOPP® II Plugging Machines

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
1-1/4	32	16	7	08-3303-0000-00
1-1/2	40	18	8	08-3305-0000-00
2	50	18	8	08-3309-0000-00
3	80	45	20	08-3500-0300-00
4	100	71	32	08-3500-0400-00
6	150	110	46	¹ 08-3500-0600-00
6	150	95	43	² 08-3500-5600-00
8	200	170	77	08-3500-0800-00
10	250	370	168	08-3500-1000-00
12	300	400	181	08-3500-1200-00
3 x 4	80 x 100	55	25	08-3501-0304-00
4 x 6	100 x 150	100	45	08-3501-0406-00
6 x 8	150 x 200	150	68	08-3501-0608-00
8 x 10	200 x 250	320	145	08-3501-0810-00
8 x 12	200 x 300	350	159	08-3501-0812-00

This includes plugging machine, plugging head assembly and chip sweep (sealing element sold separately).

¹ Standard - 1" diameter control bar.

² Alternate - 1-1/4" diameter control bar.

Plugging Machines For Polyethylene Gas Pipe

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4" only	100	110	50	¹ 08-3503-0304
4" & 6"	100 & 150	200	91	² 08-3503-0646

¹ Requires 3" SHORTSTOPP® Valve Part Number 09-0695-0000

² Requires 3" SHORTSTOPP® Valve Part Number 09-0697-0000

Carrying Cases for Plugging Machines

Size	Part Number
1-1/4	08-2481-0006
1-1/2	08-2481-0006
2	08-2481-0006
3	08-2481-0005
3x4	08-2481-0004

SHORTSTOPP® II Sealing Elements

Size		Standard 60 psi †	Thinwall 60 psi	Standard 150 psi †	Thinwall 150 psi* †
Inches	DN				
1-1/4	32	08-0114-0125 †	--	--	--
1-1/2	40	08-0114-0015 †	--	--	--
2	50	08-0114-0002	08-0501-0200	08-3427-0002 †	--
3	80	08-0114-0003	08-0502-0003	08-3427-0003 †	08-3428-0003 †
4	100	08-0114-0004	08-0502-0004	08-3427-0004 †	08-3428-0004 †
6	150	08-0114-0006	08-0502-0006	08-3427-0006-SUFF †	08-3428-0006-SUFF †
8	200	08-0114-0008	08-1719-0008	08-3427-0008-SUFF	08-3428-0008-SUFF
10	250	08-0114-0010	08-1719-0010	08-3427-0010-SUFF	08-3428-0010-SUFF
12	300	08-0114-0012	08-1719-0012	08-3427-0012-SUFF	08-3428-0012-SUFF
3 X 4	80 x 100	--	--	08-2332-0004-SUFF	08-2332-0004-SUFF
4 X 6	100 x 150	--	--	08-2332-0006-SUFF	08-2332-0006-SUFF
6 X 8	150 x 200	--	--	08-2332-0008-SUFF	08-2332-0008-SUFF
8 X 10	200 x 250	--	--	08-2332-0010-SUFF	08-2332-0010-SUFF
8 X 12	200 x 300	--	--	08-2332-0012-SUFF	08-2332-0012-SUFF

*Specify pipe I.D. when ordering.

† Up to 200 psi



SHORTSTOPP® II Plugging System

Sealing Elements For Polyethylene Pipe

Size		Part Number
Inches	DN	
4	100	08-2294-0004
6	150	108-2294-0002

¹ For SDR 11 and 11.5 Pipe

SHORTSTOPP® II Completion Plug Holders

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
1-1/4	32	.4	.2	08-0367-0001
1-1/2	40	.8	.4	08-2301-0000
2	50	.8	.4	08-2301-0000
3	80	3	1.4	08-3394-0000
3 Sq. Dr.	80	3	1.4	08-3393-0000
4	100	4	2	08-3395-0000
6 & 8	150 & 200	8	4	08-3396-0000
10 & 12	250 & 300	15	7	08-3398-0000
3 x 4	80 x 100	3	1.42	08-3394-0000
4 x 6	100 x 150	6	3	08-3392-0000
6 x 8	150 x 200	8	4	08-3396-0000
8 x 10, 12	200 x 250 & 300	12	5	08-3397-0000

Polyethylene Conversion Kits For Steel Equipment

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	60	27	08-3413-0000
4, 6	100, 150	162	80	08-3416-0000

Note: Converts 3 x 4 Plugging Machine for Steel to PE

SHORTSTOPP® II Plugging Head Kits

Size			Weight		Part Number
Inches	DN	Used With (.in)	Lbs.	Kg.	
3	80	3 x 4	4	2	08-3421-0000
4	100	4 x 6	6	3	08-3419-0000
6	150	6 x 8	12	6	08-3318-0000
8	200	8 x 10, 8 x 12	32	16	08-3420-0000

Used with Folding Plugging Machine for Size-on-Size Plugging and Sweeping Chips.



SHORTSTOPP® II Plugging System

SHORTSTOPP® II SIGHT GLASS Kits

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
¹ 1-1/4 - 3	32 - 80	29	13	² 08-3423-0000-00
¹ 1-1/4 - 1-1/2	32 - 40	23	11	² 08-3423-0000-01
¹ 2	50	23	11	² 08-3423-0000-02
¹ 3 - 3 x 4	80 - 80 x 100	24	11	08-3423-0000-03
¹ 4 - 12	100 - 300	16	7	³ 08-3424-0000-00
¹ 4 - 6	100 - 150	14	7	³ 08-3424-0000-01
¹ 8 - 12	200 - 300	15	7	³ 08-3424-0000-02

- ¹ With Chip Sweep and Magnet
- ² Includes 3" x 2" Adapter
- ³ Requires T-203 Tapping Adapter

SHORTSTOPP® II Adapters for Use with Sight Glass

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
¹ 1-1/4 - 3 x 4	32 - 80 x 100	16	7	08-2340-0000-00
¹ 4 - 6	100 - 150	11	5	³ 08-2339-0000-01
¹ 8 - 12	200 - 300	11	5	³ 08-2339-0000-02

- ¹ With Chip Sweep and Magnet
- ³ Requires T-203 Tapping Adapter



PS2000 PE Tapping Machine

For Tapping 2- through 8-inch PE Pipe Models XL and XXL



T.D. Williamson, Inc.

Bulletin No: 2085.001.02

Date: February 2010

Cross Indexing No: n/a

Supersedes: October 2006



■ PS2000XL
Tapping Machine

Description

The PS2000 PE tapping machine is designed to make taps into polyethylene (PE) pipe under pressure in preparation for line plugging or tying in a branch outlet. It is lightweight, easy for one person to handle, and comes in both an XL or XXL model (20 and 36 inches of travel).

Accessories and cutters permit making taps on 4- through 8-inch PE pipes under pressure, without shutdown.

Developed by TDW's manufacturing plant in Belgium, this machine has gained wide acceptance for use on polyethylene gas distribution lines in Europe.

Features

The PS2000 machine has a maximum working pressure of 150 psi (10 bar) at 100°F (38°C). Its operating temperature is -15° to 115°F. Other features include:

- The PS2000 is used to tap through TDW's 4, 6 and 8-inch PE Electrofusion fittings.
- Extremely lightweight. The PS2000XL (20 inches of travel) weighs only 18 lbs. The longer XXL machine (36 inches of travel) weighs in at 40 lbs.
- When line plugging is desired, the PS2000 is used to tap the pipeline prior to utilizing the SHORTSTOPP PE 3x4 or 4x6 Plugging machine for stopping the flow.
- A unique pilot and cutter captures and retains the PE pipe coupon and most of the chips.

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

■ Typical Setup



PS2000XL Tapping Machine



Tapping Adapter



Holder/Pilot:
Top Tap



3.66-inch (93mm)
Top Tap Cutter



PS2000 PE Tapping Machine *Models PS2000-XL and PS2000-XXL*

Tapping Machine

Item	Wt./ Lb.	Wt./Kg.	Part Number
PS2000 XL Tapping Machine	18	8	05-0768-5000
PS2000 XXL Tapping Machine	40	18	05-0769-0000
Includes: Star Wheel	3	1.5	05-0768-0025

Tapping Machine Specifications

Item	XL Model		XXL Model	
	Inches	mm	Inches	mm
Boring Bar Travel	20	508	36	914
Overall Length	56.77	1442	92	2337
Boring Bar Extension/Revolution	0.039	1	0.039	1
Feed Mechanism	Hand-Fed Machine		Hand-Fed Machine	



PE Completion Machine

For SHORTSTOPP® PE Tapping & Plugging System



T.D. Williamson, Inc.

Bulletin No: 2085.002.01

Date: July 2008

Cross Indexing No: n/a

Supersedes: 2085.002.01 (07/06)



■ PE Completion Machine

Features

The machine is easily attached to the valve adapter using a strap wrench. Once the adapter is secure, the completion plug can easily be attached to the machine by hand. The completion plug is lowered to the fitting, screwed in to provide a seal, and then released from the completion machine. The plug may be removed at a later date if re-entry into the line is necessary. Hallmarks of completion machine operation include:

- Reliable and safe operation
- Hand-wheel for easy positioning and threading of the completion plug.
- Visible indicator lets the operator know the completion plug position.
- Completion plug makes possible the removal of the tapping valve.
- Re-entry at a later date without the need of additional taps.

■ Typical Setup



Description

Integral to the SHORTSTOPP® PE Plugging system is a PE completion machine. Designed to install a threaded completion plug into the neck of a TDW Electrofusion PE fitting, permitting the tapping valve to be removed after work is completed. The machine is lightweight (25 lbs) and is made from corrosion resistant materials for durability and long life.

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

Note: PE Completion Machine must be used in conjunction with SHORTSTOPP® PE Fittings. See Bulletin 2120.001.00.



PE Completion Machine

Completion Machine	Item	Part Number
	PE Completion Machine	07-0703-5000
	Adapter for Completion Machine (Required)	08-3402-0001

Optional Equipment & Accessories	Item	Part Number
	1/4 Turn Bleeder Valve	00-7206-0022
	Nipple (1/4 NPT)	00-0220-0001
	Bushing, Hex 3/8x1/4	00-0644-0002
	Valve Gasket (6-inch x 150Lb)	00-1224-0004

SHORTSTOPP® PE Fittings

Sizes: 4- to 6-inches



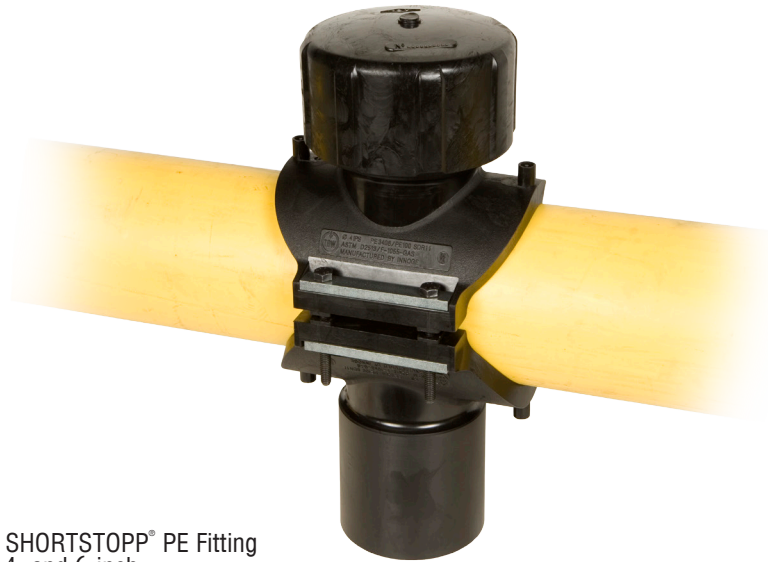
T.D. Williamson

Bulletin No: 2120.001.04

Version: 01.2017

Cross Indexing No: n/a

Supersedes: 2120.001.03 (12.2011)



■ SHORTSTOPP® PE Fitting
4- and 6-inch (4-inch shown)

Description

Integral to the SHORTSTOPP® PE Plugging system are two versatile PE fittings in sizes 4 and 6 inch. Depending on whether you want to install a bottom-out connection for a branch line, or just plug the main while making repairs, TDW has the right kind of electro-fusion fitting for your task.

Bottom-out fittings for branch connections are available in 4 x 4 and 6 x 4-inch sizes. These fittings are easy to install and eliminate the need for a squeeze-off operation. When installing a branch line and a bypass is required to keep the main flowing, the squeezing process requires more parts and a larger excavation to open and fill. With the TDW SHORTSTOPP PE system and PE fittings, less pipeline modification is required.

Features

The fittings are easily installed after pipe preparation with a standard electrofusion processor. The addition of a fitting support kit will let you do the work using your SHORTSTOPP II plugging system. The tap can be made with the lightweight PS2000 PE tapping machine or the T-101 drilling machine using special PE cutters, or the T-101 XL if tapping for a bottom outlet. The PE line can be plugged with a SHORTSTOPP PE 3x4 or 4x6 plugging machine.

A special completion machine is required to install the threaded plug.

The combination of SHORTSTOPP II and the PE plugging system provide the following results:

- The best isolation option
- Branching capability
- Branch plugging capability
- Bypass capability
- Completion plug installation, permitting removal of the valve

Options

PE Fitting options include:

- Eliminate the option of squeezing off, thereby minimizing the size of the dig site.
- Fittings for line plugging or bottom branch outlet.
- Tap with either the T-101 Drilling Machine or PS2000 PE Drilling Machine.
- When plugging the main, a bypass can be used, keeping the line in service.

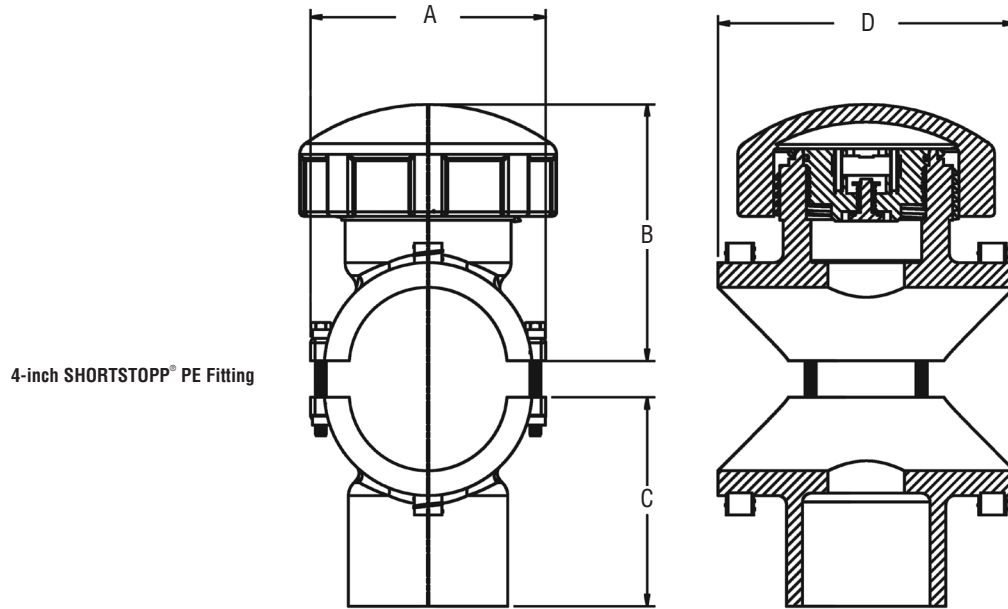
Typical Setup



■ PE Plugging Fitting

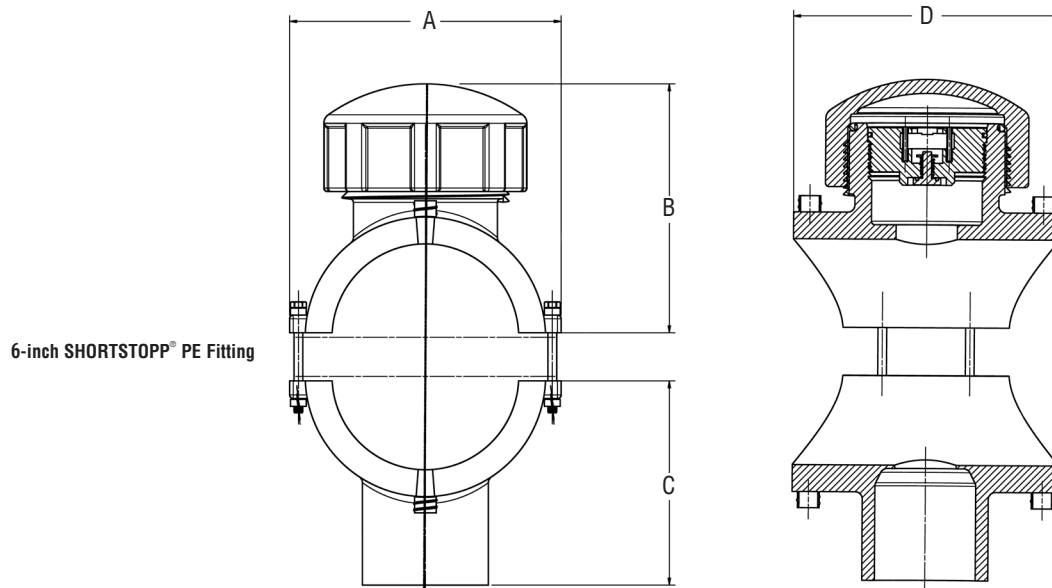
■ PE Bottom Branch Outlet Fitting

PE Bottom Branch Outlet Fittings



PE Plugging and Branching Fittings

Size Inches	Fitting Type	A	B	C	D	Part Number
4	Branching	6.62	6.77	6.89	7.48	26-3368-0000
4	Plugging	6.62	6.77	3.35	7.48	26-3369-0000
6	Branching	8.98	8.43	11.18	8.66	26-3370-0000
6	Plugging	8.98	8.43	4.45	8.66	26-3371-0000



SHORTSTOPP® PE Fittings

Sizes: 8- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2120.002.00
 Date: April 2007
 Cross Indexing No: n/a
 Supercedes: n/a



■ SHORTSTOPP® PE Plugging Fitting



■ SHORTSTOPP® PE Bottom Branch Outlet Fitting

Description

Integral to the SHORTSTOPP® PE Plugging system are two types of versatile PE fittings in sizes 8 through 12 inches. Depending on whether you want to install a bottom-out connection for a branch line, or just plug the main while making repairs, TDW has the right kind of electrofusion fitting for your task.

Line plugging fittings and bottom-out fittings for branch connections are available in 6 x 8; 8 x 10, and 8 x 12-inch sizes. These fittings are easy to install and eliminate the need for a squeeze-off operation. When installing a branch line and a bypass is required to keep the main flowing, the squeezing process requires more parts and a larger excavation to open and fill. With the TDW SHORTSTOPP PE system and PE fittings, less pipeline modification is required.

Features

The fittings are easily installed after pipe preparation with a standard electrofusion processor. The tap can be made with one of several tapping machines using special PE cutters. The PE line can be plugged with a SHORTSTOPP PE 6x8, 8x10 or 8x12 plugging machine.

SHORTSTOPP II plugging machines or the SHORTSTOPP 500 completion machine are required to install the completion plug.

The combination of SHORTSTOPP II and the PE plugging system provide the following results:

- The best isolation option
- Branching capability
- Branch plugging capability
- Bypass capability
- Completion plug installation, permitting removal of the valve
- Stainless steel blind flange

Options

PE Fitting options include:

- Eliminate the option of squeezing off, thereby minimizing the size of the dig site.
- Fittings for line plugging or bottom branch outlet.
- Tap with either the PS2000XXL Drilling Machine or T-203 Tapping Machine.
- When plugging the main, a bypass can be used, keeping the line in service.

Typical Setup

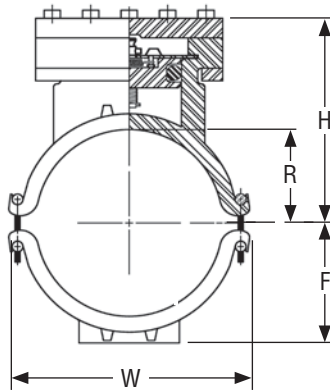


ISO 9001 Certified

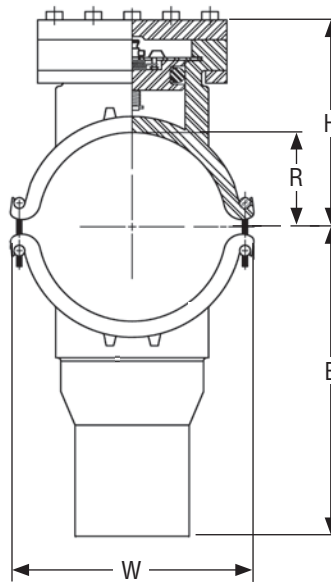
Toll Free

1-888-TDWmSon (839-6766)

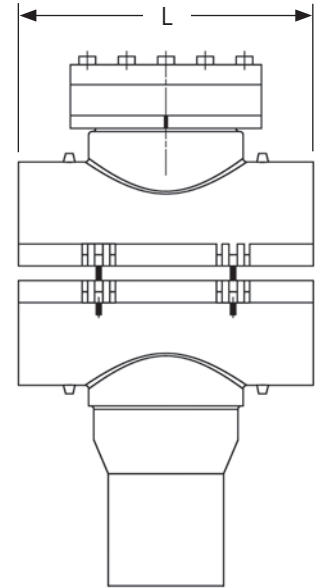
PE Plugging & Bottom Branch Outlet Fittings



SHORTSTOPP® PE Plugging Fitting



SHORTSTOPP® PE Bottom Branch Outlet Fitting



PE Plugging and Branching Fittings

Size Inches	Fitting Type	H	R	B	F	L	W	Part Number
6x8	Plugging	8.375	4.312	N/A	5.595	13.312	10.974	26-1315-0608-00
6x8	Branching	8.375	4.312	10.875	N/A	13.312	10.974	26-1315-0608-01
8x10	Plugging	10.608	5.375	N/A	6.658	15.029	12.836	26-1315-0810-00
8x10	Branching	10.608	5.375	12.73	N/A	15.029	12.836	26-1315-0810-01
8x12	Plugging	11.608	6.375	N/A	7.658	17.162	14.806	26-1315-0812-00
8x12	Branching	11.608	6.375	13.73	N/A	17.162	14.806	26-1315-0812-01

Replacement Parts

Size Inches	Completion Cap	Completion Lid Bolts	Completion Cap retainer plates	Completion Cap Gasket	Completion Plug	Spare Oring for Completion Plug
6x8	26-1315-0608-03	26-1316-0001 (12)	26-1315-0608-05 (2)	26-1315-0608-08	07-1465-0000	00-1250-0007
8x10	26-1315-0810-03	26-1316-0002 (12)	26-1315-0810-05 (2)	26-1315-0810-08	07-1786-0000	00-1250-0008
8x12	26-1315-0810-03	26-1316-0002 (12)	26-1315-0810-05 (2)	26-1315-0810-08	07-1786-0000	00-1250-0008



PE Branch Saddle-Valve

Sizes: 4-inch valves for 4-, 6- and 8-inch PE pipe



T.D. Williamson, Inc.

Bulletin No: 2085.003.02

Date: February 2010

Cross Indexing No: n/a

Supersedes: 2085.003.00 (10/07)



■ PE Branch Saddle-Valve with Electrofusion Branch saddles.

Description

The TDW PE Branch Saddle Fitting and Valve is economical both in dollars and time saved in connecting a 4-inch branch line to a polyethylene 4, 6, or 8-inch main, operating up to 100 psi.

The combination electrofusion branch fitting and PE ball valve is fused to the main, the main is then tapped through the valve, the valve closed, the temporary flange removed and the branch piping connected.

This unique alternative to squeezing is built on proven technology. A smaller excavation area is required than with other options. The job is completed much faster, resulting in less labor and material and substantially reduces job costs.

A modest tapping equipment package can be purchased, or you can choose TDW's turnkey service option.

Benefits

The TDW PE Branch Saddle Valve Fitting makes possible the connection of a branch line to a polyethylene main without

- Disruption to the main
- The need of a bypass to keep the main in service
- The necessity of cutting the line to install an in-line tee

- Most importantly, without the necessity of squeezing the line

After the fitting-valve is electrofused to the main, the main is tapped through using the PS 2000XL Drilling Machine or TDW T-101XL and TDW's special PE cutters. A flanged "pup" is attached to the valve for easy connection of the drilling machine. After the tap is completed, this flange is removed and the branch line butt-fused to the valve.

Connecting a branch in this manner is simplicity at its best when considering all the effort required in a typical branching operation.

Options

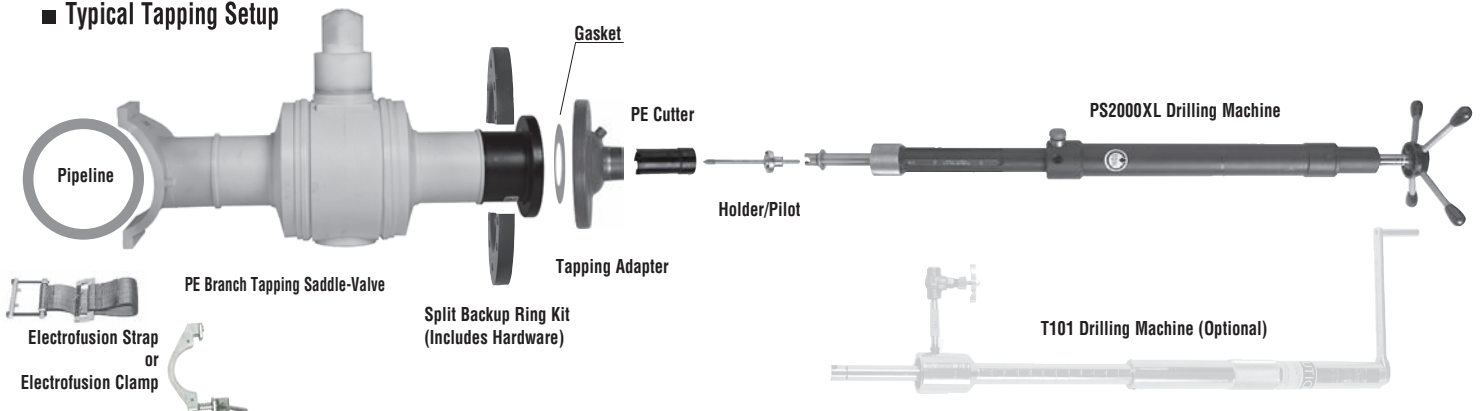
PE Branch Saddle fittings are offered in 4 x 4, 6 x 4, and 8 x 4-inch sizes. Other sizes available upon request

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

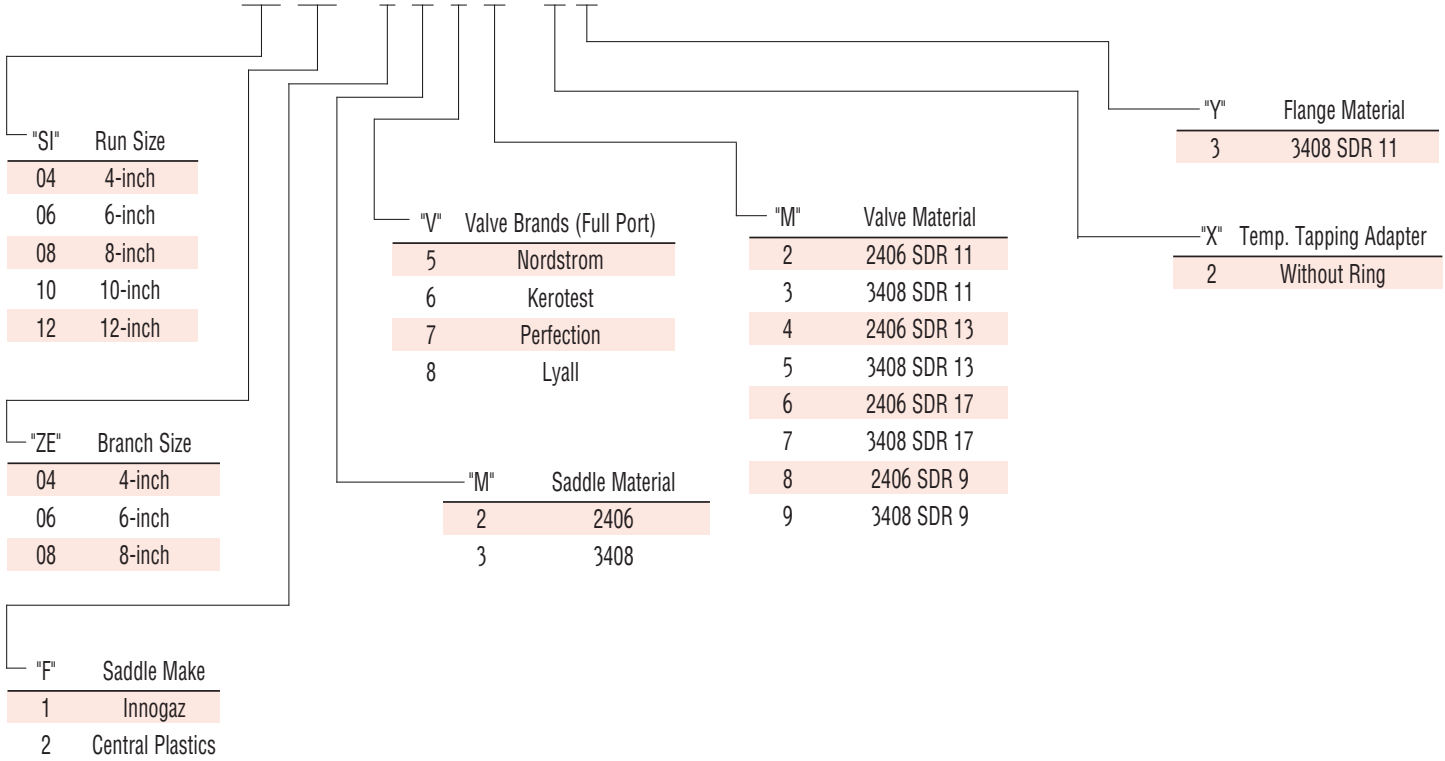
■ Typical Tapping Setup





PE Branch Saddle-Valve

P 6 - S I Z E - F M V M - X Y



SHORTSTOPP® PE System for 4-inch PE Applications



T.D. Williamson

Data Sheet No. SS-4PE

Date: May 2016

Supersedes: June 2011

Data Sheet No. SS-4PE

Tapping



PS2000XL Drilling Machine
05-0768-5000-00

PS2000XXL Drilling Machine
05-0769-0000-00

Tapping Adapter
06-8872-0001-01

Holders/Pilots:
Top Tap 05-0766-0400-00
Bottom Tap 05-0767-0400-00

2.80-inch (71mm) Top Tap Cutter
05-0780-0071-00

2.40-inch (61mm) Bottom Tap Cutter
05-0770-0061-00

Plugging

PE Plugging Machine Assembly

SHORTSTOPP® II 3x4-inch Plugging Machine For 4-inch PE

08-3508-0646-00 (1-inch Dia. Control Bar) (Note 2)
Includes the following:



Dual Control Bar Assembly
08-3386-0000-00
(Included)

Jack Assembly
08-3364-0000-00
(Included)

Housing Assembly
08-3357-0000-00
(Included)

PE Plugging Head Assembly
08-3333-0000-00 (Included)
Sealing Element for
SDR 11 through SDR 13.5
4-inch 08-2294-0004-00.

Sealing Element for SDR 17
4-inch 08-2332-0004-3.

6-inch (152.4 mm) SHORTSTOPP® Valve
Aluminum Body
09-0697-0000-00
Required



4-inch Pipe Support
Assembly
08-3405-1000-00
includes the following:

Fitting Adapter
08-3405-1007-00
(Included)



Ground Strap Kit
08-3405-0010-00
(Included)



Load Support
08-3405-1017-00
(Included)

Sizing Rings and Saddle for
4-inch PE Pipe 08-3405-0006
(Included)

4-inch PE
Plugging Fitting
26-3369-0000-00

4x4-inch PE Branching
Fitting
26-3368-0000-00



4-inch (114 mm) PE Pipe

Notes

1. **Maximum Working Pressure and Temperature For Equipment:** 150 psi at 100°F. (Except some plugging components)
2. **Plugging:** 3x4-inch Plugging Machine can be used in 4-inch and 6-inch PE plugging operations (125 psi mwp).
3. **Fitting -** Threaded Completion plug and cap furnished with fitting. Components not compatible with 26-1304-1000 or 26-1304-0000. Consult your TDW representative for fitting specifications.



T.D. Williamson

Data Sheet No. SS-4PE

Data Sheet No. SS-4PE

4-Inch SHORTSTOPP® PE System

Data Sheet No. SS-4PE

Optional Equipment and Accessories

Purchased separately



1/4-Turn Bleeder Valve
00-7206-0022



Nipple
00-0220-0001



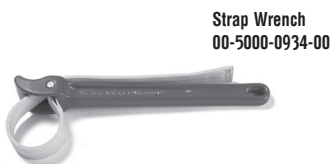
4-inch Bottom Plugger
for use with Drilling
Machine
08-3401-0004-00



Test Cap
72.5537.0219.0110.00



Deluxe Pipe Scraper
08-3400-1004-00

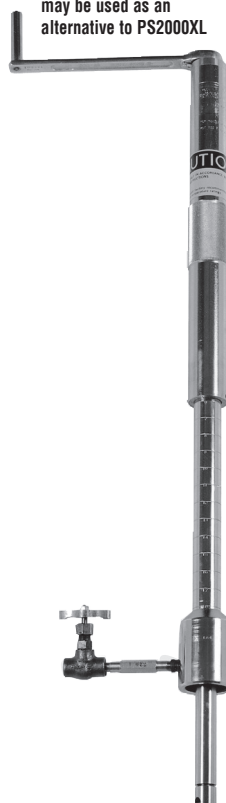


Strap Wrench
00-5000-0934-00

Chip Evacuator
08-3403-0000-00 may be used
to remove chips after tapping



T-101 Drilling Machine
05-1028-0000-00
may be used as an
alternative to PS2000XL



Air Activator also available for
low pressure applications
08-3403-0500-00

Completion (Required)



PE Completion Machine
07-0703-5000-00

Adapter for Plug Setter
08-3402-0001-00

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® PE System for 6-inch PE Applications



T.D. Williamson

Data Sheet No. SS-6PE

Date: May 2016

Supersedes: June 2011

Data Sheet No. SS-6PE

Tapping



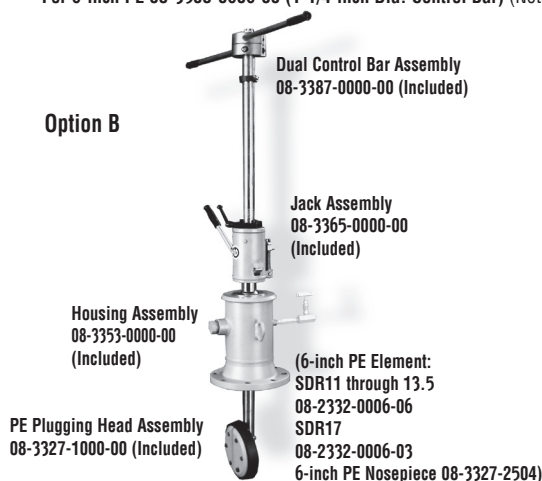
Plugging

PE Plugging Machine Assembly

SHORTSTOPP® II 3x4-inch Plugging Machine
For 6-inch (152.40 mm) PE 08-3508-0646-00
(1-inch Dia. Control Bar) (Note 2)

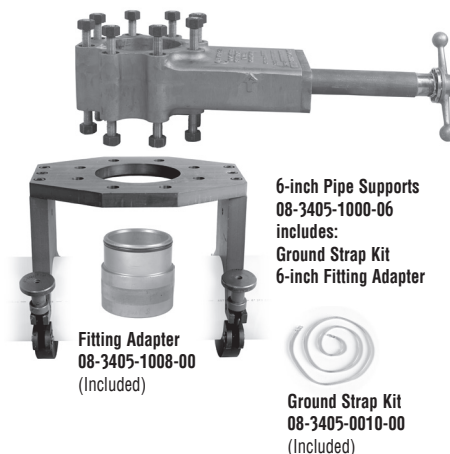


SHORTSTOPP® II 4x6-inch Plugging Machine
For 6-inch PE 08-3508-0606-00 (1-1/4-inch Dia. Control Bar) (Note 2)



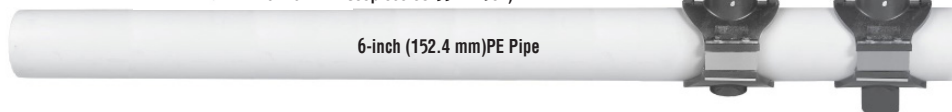
Pipe Support Assembly

6-inch (152.4 mm) SHORTSTOPP®
Valve
Aluminum Body
09-0697-0000-00
Required



6-inch PE
Plugging Fitting
26-3371-0000-00

6-inch PE
Branching Fitting
26-3370-0000-00



Notes

- Maximum Working Pressure and Temperature:** 150 psi at 100°F. (Except some plugging components)
- Plugging:** 3x4-inch Plugging Machine can be used in 4-inch and 6-inch PE plugging operations (125 psi mwp). 4x6-inch can be used for 6-inch PE plugging operations only (150 psi mwp).
- Fitting - Threaded Completion plug and cap** furnished with fitting. Components not compatible with 26-1306-1000 or 26-1306-0000. Consult your TDW representative for fitting specifications.



T.D. Williamson

Data Sheet No. SS-6PE

Data Sheet No. SS-6PE

6-inch SHORTSTOPP® PE System

Optional Equipment and Accessories

Purchased separately



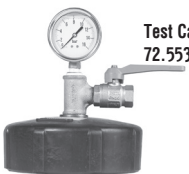
1/4-turn Bleeder Valve
00-7206-0022



Nipple
00-0220-0001



6- & 8-inch Bottom
Plugger for use with
Drilling Machine
08-3401-0006-00



Test Cap
72.5537.0219.0160.00



Deluxe Pipe Scraper
08-3400-1006-00



Strap Wrench
00-5000-0934-00



Chip Evacuator
08-3403-0000-00 may be used
to remove chips after tapping,
Air Activator also available
08-3403-0500-00

For top tap only, the T-101
Drilling Machine 05-1028-0000-00
may be used as an alternative to
PS2000XL. For bottom tap, the
T-101XL Drilling Machine
05-1029-0000 may be used.



Completion

(Required)



PE Completion Machine
07-0703-5000-00

Adapter for Plug Setter
08-3402-0001-00

■ Note: Consult your TDW representative for additional fitting options.

SHORTSTOPP® PE System for 8-inch PE Applications



T.D. Williamson, Inc.

Data Sheet No. SS-8PE

Date: January 2010

Supersedes: November 2009

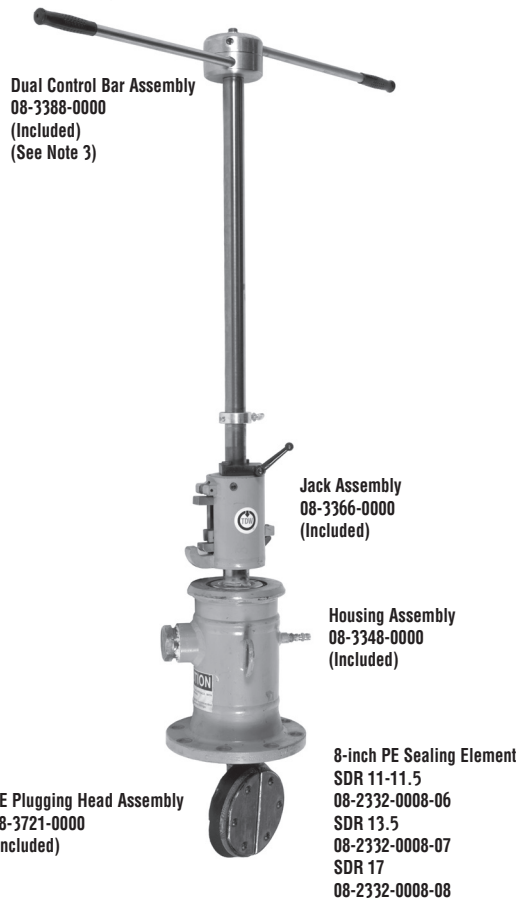
Tapping



Plugging

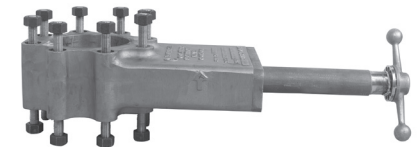
PE Plugging Machine Assembly

**SHORTSTOPP® II 6x8-inch Plugging/
Completion Machine**
(1-5/8-inch Dia. Control Bar)
08-3508-0608



Typical Setup

6-inch (152.4 mm) SHORTSTOPP® Valve
Aluminum Body
09-0697-0000-00
Required



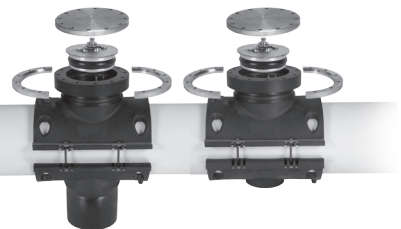
Adapter Spool
26-1315-0608-06



Ground Strap Kit
08-3405-0010-00

**6"x8" PE
Bottom-Out Fitting**
26-1315-0608-01

**6"x8" PE
Plugging Fitting**
26-1315-0608-00



Notes

- 1. Maximum Working Pressure and Temperature of Equipment:** 150 psi at 100°F. (Except plugging components)
- 2. Plugging:** 100 psi MAOP for SDR 11 through 13.5, 70 psi maop for SDR 17.
- 3. Control bar** must have latest handle connectors. A field upgrade kit is available from TDW.



T.D. Williamson, Inc.

Data Sheet No. SS-8PE

Data Sheet No. SS-8PE

8-inch SHORTSTOPP® PE System

Optional Equipment and Accessories

Purchased separately



PS2000XL Drilling Machine

For top tap only, the PS2000XL 05-0768-5000-00 and T-101XL Drilling Machine 05-1029-0000-00 may be used as an alternative to PS2000XXL.



T-101XL Drilling Machine



1/4-turn Bleeder Valve
00-7206-0022



Nipple
00-0220-0001



Deluxe Pipe Scraper
08-3400-1008-00

Completion

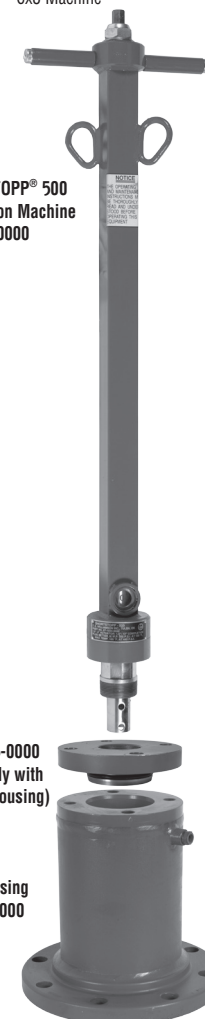
Option I



SHORTSTOPP® II 6x8
Plugging/Completion
Machine
08-3508-0608

Option II

Optional to SHORTSTOPP® II 6x8 Machine



SHORTSTOPP® 500
Completion Machine
07-1034-0000

Adapter
06-7265-0000
(Use only with
T-203 Housing)

T-203 Housing
06-1543-0000

Plug Holder
08-3396-0000

Completion Plug
Included with Fitting

Completion Plug Holder
07-0334-0000-00

Completion Plug
Included with Fitting

■ Note: Consult your TDW representative for additional fitting options.

Data Sheet No. SS-8PE

SHORTSTOPP® PE System for 10-inch PE Applications



T.D. Williamson, Inc.

Data Sheet No. SS-10PE

Date: January 2010

Supersedes: November 2007

Data Sheet No. SS-10PE

Tapping



Plugging

PE Plugging Machine Assembly

**SHORTSTOPP® II 8x10-12-inch Plugging/
Completion Machine**
(1-5/8-inch Dia. Control Bar)
08-3508-0812

Dual Control Bar Assembly
08-3388-0000
(Included)
(See Note 4)

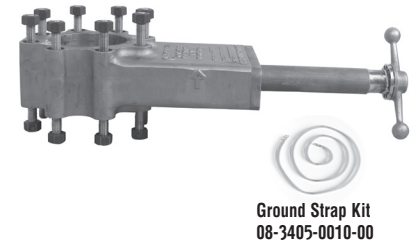


PE Plugging Head Assembly
08-4581-0000
(Included)
(Note 5)

10-inch PE Sealing Element
SDR11-11.5
08-2332-0010-05
SDR13.5
08-2332-0010-04
SDR 17
08-2332-0010-06

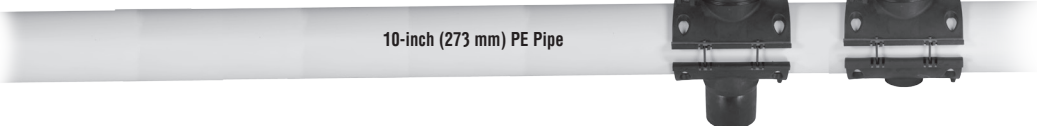
Typical Setup

8-inch (203.0 mm) SHORTCUTT® Valve
Aluminum Body for PE (7.25-inch Bore)
09-0042-0000-00
Required



**8"x10" PE
Bottom-Out Fitting**
26-1315-0810-01

**8"x10" PE
Plugging Fitting**
26-1315-0810-00



Notes

1. **Maximum Working Pressure and Temperature of Equipment:** 150 psi at 100°F.
2. **Maximum Plugging Pressure:** 75 psi MAOP
3. Control bar must have latest handle connectors. A field upgrade kit is available from TDW.
4. Gasket to be used with 26-1315-0810-06 Adaptor Spool only. Do not use gasket with completion cover.
5. For SDR 17 larger nose plates (08-3330-0004-00) must be used.



T.D. Williamson, Inc.

Data Sheet No. SS-10PE

Data Sheet No.
SS-10PE

10-inch SHORTSTOPP® PE System

Optional Equipment and Accessories

Purchased separately



Pipe Scraper
00-5000-0936-00

Completion Options

Option I



SHORTSTOPP® II 8x10-12
Plugging/Completion Machine
08-3508-0812

Housing Assembly
08-3349-0000
(Included)



Plug Holder
08-3396-0000



Completion Plug
Included with Fitting



Option II

Optional to SHORTSTOPP® II
8x10-12 Machine



SHORTSTOPP® 500
Completion Machine
07-1034-0000

Adapter
06-7265-0000
(Use only with
T-203 Housing)



T-203 Housing
06-1544-0000
or
26-2107-0000-00
(See p.1)

Completion Plug Holder
07-0334-0000-00



Completion Plug
Included with Fitting



■ Note: Consult your TDW representative for additional fitting options.

Data Sheet No. SS-10PE

SHORTSTOPP® PE System for 12-inch PE Applications



T.D. Williamson, Inc.

Data Sheet No. SS-12PE

Date: January 2010

Supersedes: November 2007

Tapping



Plugging

PE Plugging Machine Assembly

**SHORTSTOPP® II 8x10-12-inch Plugging/
Completion Machine**
(1-5/8-inch Dia. Control Bar)
08-3508-0812

Dual Control Bar Assembly
08-3388-0000
(Included)
(See Note 4)

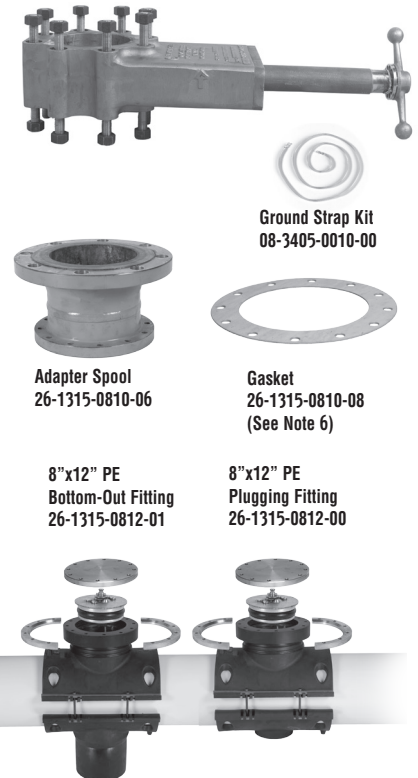


12-inch PE Sealing Element
SDR11-11.5
08-2332-0012-10
SDR13.5
08-2332-0012-11
SDR 17
08-2332-0012-12

12-inch (323.85 mm) PE Pipe

Typical Setup

8-inch (203.2 mm) SHORTSTOPP® Valve
Aluminum Body for PE (7.25-inch Bore)
09-0042-0000-00
Required



Notes

1. **Maximum Working Pressure and Temperature of Equipment:** 150 psi at 100°F.
2. **Maximum Plugging Pressure:** 60 psi MAOP
3. Control bar must have latest handle connectors. A field upgrade kit is available from TDW.
4. Gasket to be used with 26-1315-0810-06 Adaptor Spool only. Do not use gasket with completion cover.



T.D. Williamson, Inc.

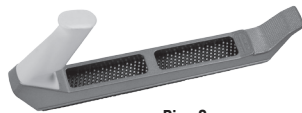
Data Sheet No. SS-12PE

Data Sheet No.
SS-12PE

12-inch **SHORTSTOPP® PE System**

Optional Equipment and Accessories

Purchased separately



Pipe Scraper
00-5000-0936-00

Completion Options

Option I



SHORTSTOPP® II 8x10-12
Plugging/Completion Machine
08-3508-0812



Housing Assembly
08-3349-0000
(Included)



Plug Holder
08-3396-0000



Completion Plug
Included with Fitting

Option II

Optional to SHORTSTOPP® II
8x10-12 Machine



SHORTSTOPP® 500
Completion Machine
07-1034-0000

Adapter
06-7265-0000
(Use only with
T-203 Housing)

T-203 Housing
06-1544-0000
or
26-2107-0000-00
(See p.1)



Completion Plug Holder
07-0334-0000-00

Completion Plug
Included with Fitting



■ Note: Consult your TDW representative for additional fitting options.

Data Sheet No. SS-12PE



Distribution Valves

Sizes: 2- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2010.001.02

Date: January 2009

Cross Indexing No: n/a

Supersedes: 2010.001.01 (2/00)



■ **SHORTSTOPP® Valve**

Description

TDW's line of distribution valves includes the SHORTCUTT® 500 Valve, SHORTCUTT® Valve and SHORTSTOPP® Valve. All are designed for use with the SHORTSTOPP® Plugging Systems for Hot Tapping and SHORTSTOPP® Plugging Operations.

They are temporary valves that are used with TDW drilling or tapping machines and SHORTSTOPP® Plugging Machines. Their compact size reduces the travel required for the drilling machine's boring bar to make taps. The valves are full opening, permitting passage of TDW drills, hole saws, cutters, plugging heads and completion plugs.

Features

The SHORTCUTT Valve body is constructed of pressure-quality cast iron. The SHORTSTOPP Valve body is constructed of aluminum. SHORTCUTT 500 Valves are constructed of ductile iron.

The 2" and 3" (DN 50 and DN 80) SHORTCUTT 500 Valves replace the SHORTCUTT 2" and 3" valves to accommodate higher pressure lines. The maximum working pressure is 500 psi at 100°F (35 bar at 38°C) or 460 psi at 180°F (31 bar at 82°C).

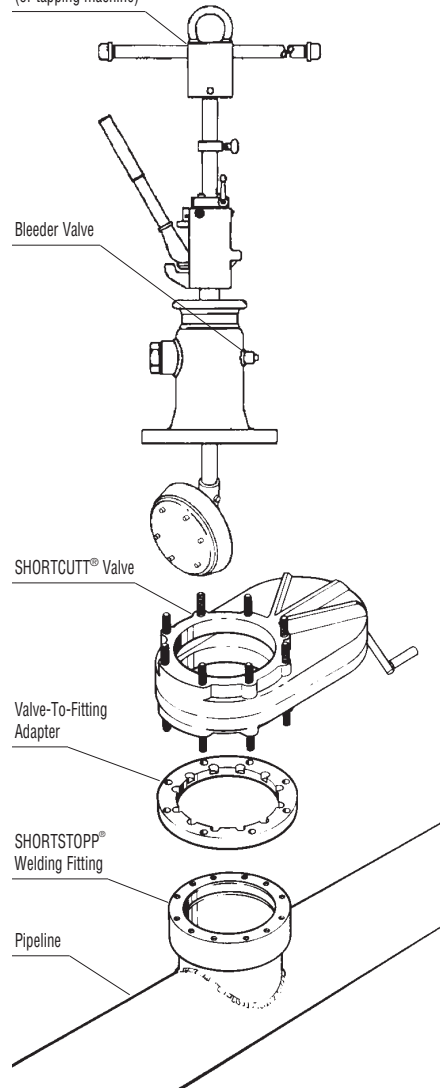
The SHORTCUTT Valves accommodate 4" through 12" (DN 100 - DN 300) lines. The maximum working pressure is 275 psi at 100°F (19 bar at 38°C) or 245 psi at 180°F (17 bar at 82°C). These valve sizes meet ASME Class 150 bolt pattern.

The SHORTSTOPP Valves accommodate 2" through 6" (DN 50 - DN 150) lines. The maximum working pressure of the 2" and 3" is 500 psi at 100°F (35 bar at 38°C) or 460 psi at 180°F (31 bar at 82°C). The maximum working pressure of the 4" and 6" is 275 psi at 100°F (19 bar at 38°C) or 245 psi at 180°F (16 bar at 82°C).

■ Typical Setup

4" (100 mm) through 12" (300 mm)

SHORTSTOPP® II
Plugging Machine
(or tapping machine)



ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



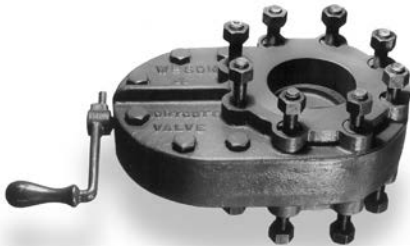
Distribution Valves



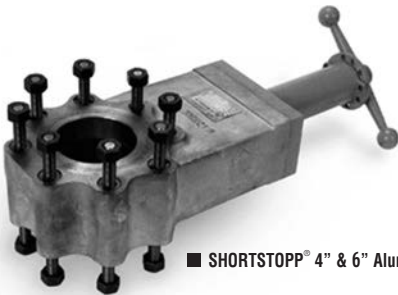
■ SHORTCUTT® 500 2" Ductile Iron Valve



■ SHORTCUTT® 500 3" Ductile Iron Valve



■ SHORTCUTT® 4" - 12" Cast Iron Valve



■ SHORTSTOPP® 4" & 6" Aluminum Valve

SHORTCUTT® 500 Valves

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
2	50	12.5	6	09-0758-0000
3	80	27	12	09-0759-0000

SHORTCUTT® Valves

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	78	35	09-0040-0000
6	150	142	64	09-0041-0000
8	200	207	94	09-0042-0000
12	300	454	206	09-0044-0000

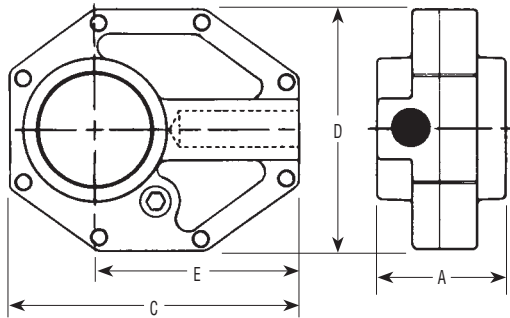
Includes operating handles

SHORTSTOPP® Valves

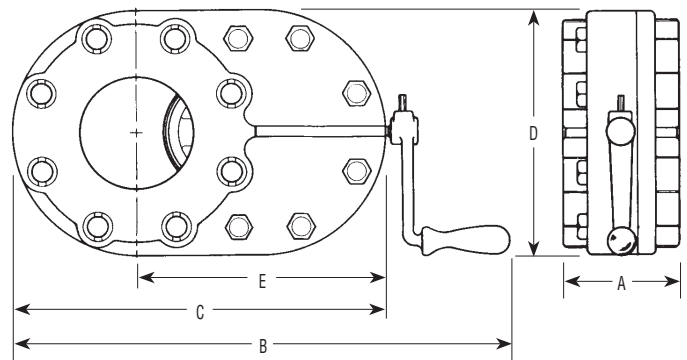
Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	50	23	09-0696-0000
6	150	75	34	09-0697-0000



Distribution Valves



■ 2" (50 mm) and 3" (80 mm)



■ 4" (100 mm) and 12" (300 mm)

SHORTCUTT® 500 Valve Dimensions — 2" and 3" (DN 50 and DN 80)

Size		A		B		C		D		E		Bore	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	3-3/16	81	--	--	6-5/8	168	5-5/8	142	4-1/4	108	2-7/32	56
3	80	4-1/8	104	--	--	10-1/8	257	7-3/4	196	6-3/8	162	3-1/4	83

SHORTCUTT® Valve Dimensions — 4" through 12" (DN 100 - DN 300)

Size		A		B		C		D		E		Bore	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4	100	4-1/4	108	18	457	13-1/2	343	9	229	9	229	4-1/8	105
6	150	5-1/4	133	22-9/16	573	18-1/16	459	11	279	12-9/16	319	6-1/8	156
8	200	5-1/2	140	27	686	22-1/4	565	13-1/2	343	15-11/16	398	8-1/16	205
12	300	6	152	37-5/8	956	32	813	19	483	22-1/2	572	12-1/8	308

SHORTSTOPP® Valve Dimensions — 2" through 6" (DN 50 - DN 150)

Size		A		B		C		D		E		Bore	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	2-5/8	67	13-5/8	346	N/A	N/A	4-5/16	110	9-7/8	251	2-1/16	52
3	80	4-5/16	102	19-3/8	492	N/A	N/A	5-3/4	146	15-3/8	391	3-1/4	83
4	100	4-1/2	114	24-3/8	619	N/A	N/A	8-9/16	217	18-1/8	460	4-1/8	105
6	150	5-1/4	133	31-3/4	806	N/A	N/A	10-3/4	273	25	635	6-1/4	159

SANDWICH® Valves

Sizes: 4-inch and larger

Manual and hydraulic models available



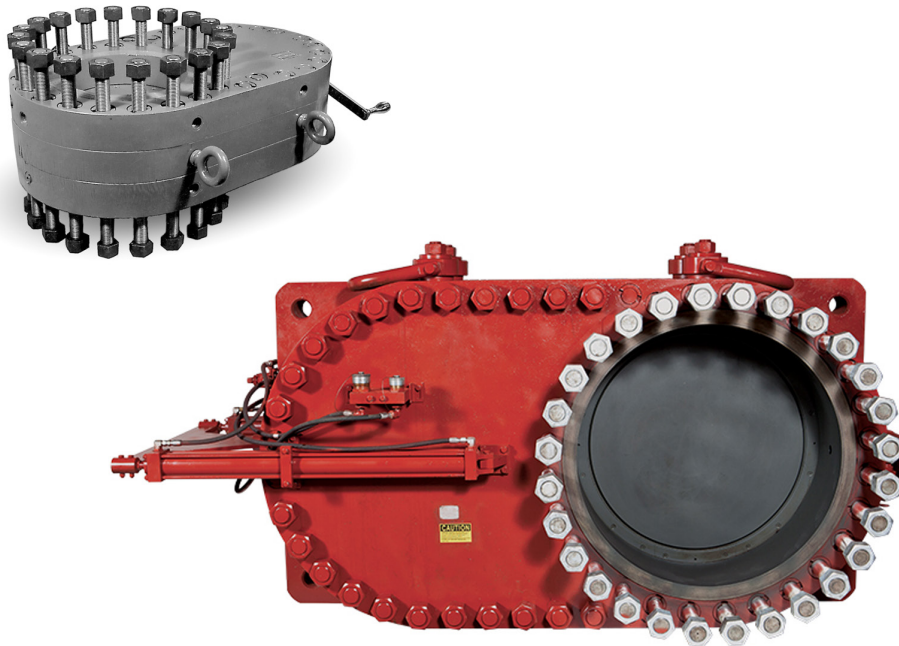
T.D. Williamson

Bulletin No: **1020.001.04**

Version: 04.2017

Cross Indexing No: n/a

Supersedes: 1020.001.03 (02.2016)



Description

SANDWICH® Valves are designed for use with T.D. Williamson, Inc. Tapping Machines, TDW STOPPLE® Plugging Machines, and fittings with LOCK-O-RING® Flanges during hot tapping and plugging operations. SANDWICH Valves have flat-faced, serrated gasket surfaces and are supplied to match ASME Class 150, 300, or 600 flanges.

SHORTSTOPP® 500 requires the use of 4-through 12-inch ASME Class 300 SANDWICH Valves.

Features

TDW SANDWICH Valves average 75% less total face-to-face dimensions than conventional valves, which means less installation time and easier handling and functioning in tight places where other equipment would be difficult or impossible to use.

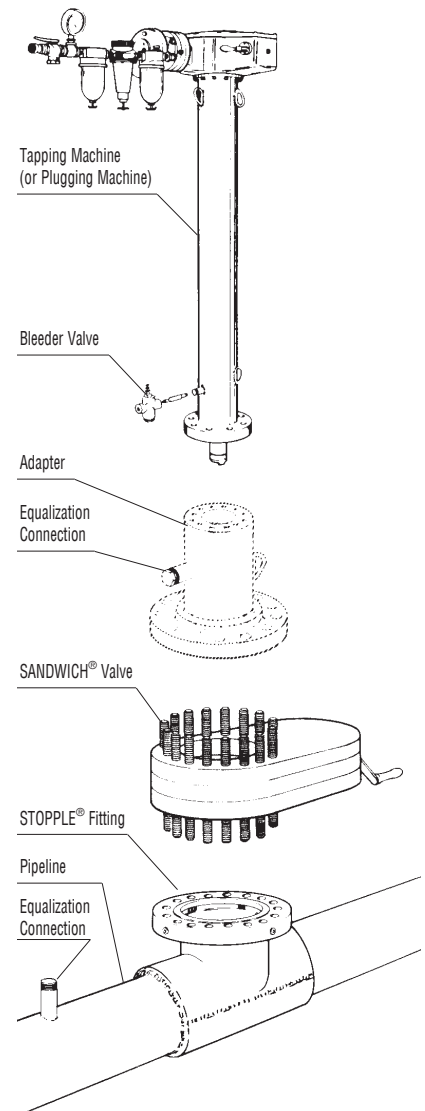
The SANDWICH Valve is bidirectional and can be installed on the fitting in any direction as long as the bore of the valve is in line with the fitting bore. The valve can be oriented parallel or perpendicular to the pipeline to fit the excavation.

Other design features of the SANDWICH Valve include an oversized bore, positive shutoff, a built-in pressure equalizing valve and integral flange studs.

Options

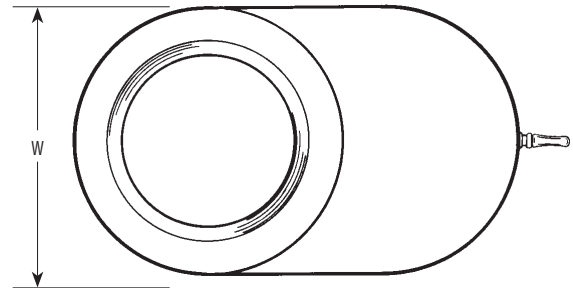
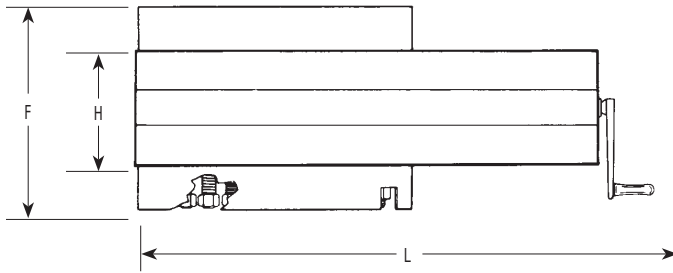
TDW is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

Sizes 4 in. (100 mm) through 22 in. (558 mm) are hand operated; 24 in. and larger valves are hydraulically operated.





SANDWICH® Valves



Class 150*

Size		Approx. Weight		W-Width		L-Open		L-Closed		H-Face to Face		F-Overall		Part Number
Inches	mm	Lb.	Kg.	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
14	350	1150	522	26-1/8	664	38-5/8	981	38-5/8	981	6-1/2	165	13-1/2	343	09-0183-0000
18	450	1650	748	25	635	45-1/8	1146	45-1/8	1146	7-3/4	197	15-1/8	384	09-0513-0000
24	600	3660	1660	32	813	58-1/4	1480	58-1/4	1480	10-3/8	264	19-3/8	492	09-0109-0000
30	750	7050	3198	45-1/4	1149	76-3/8	1940	76-3/8	1940	14-1/2	370	25-7/8	657	09-0867-0000

*Covers bolt pattern only. See Maximum Operating Pressures Chart.

Class 300*

Size		Approx. Weight		W-Width		L-Open		L-Closed		H-Face to Face		F-Overall		Part Number
Inches	mm	Lb.	Kg.	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
4**	100	153	69	10	254	20-5/8	524	20-5/8	524	4-1/4	108	9-1/4	235	09-0097-0000
6**	150	260	118	12-1/2	318	25	635	25	635	5-1/2	140	10-1/4	260	09-0077-0000
8**	200	415	188	15	381	29-1/2	749	29-1/2	749	5-7/8	149	11-1/8	283	09-0064-0000
10**	250	750	340	17-1/2	445	34-3/8	873	34-3/8	873	7	178	13	330	09-0106-0000
12**	300	1150	522	20-1/2	521	39-5/8	1006	39-5/8	1006	7-5/8	194	14-1/4	362	09-0066-0000
14	350	1600	726	23	584	38-1/2	978	38-1/2	978	7-3/4	197	16	406	09-0512-0000
18	450	2320	1050	28	911	47-1/2	1207	47-1/2	1207	10-1/8	251	18-3/4	476	09-0515-0000
20	500	3200	1452	30-1/2	775	56-3/4	1441	56-3/4	1441	10-5/8	270	19-1/8	486	09-0738-0000
22	550	4800	2177	30-1/2	775	52-1/2	1334	52-1/2	1334	10-5/8	270	20-1/8	511	09-0511-0000
24	600	5300	2404	36	914	96	2438	72-3/8	1838	12-3/4	324	22-3/4	578	09-0052-0000
36	900	15500	2031	50	1270	138-3/4	3524	102	2591	9-9/16	497	32-13/16	833	09-0079-0000

*Covers bolt pattern only. See Maximum Operating Pressures Chart.

**For use with 4- through 12-inch SHORTSTOPP® 500



SANDWICH® Valves

Class 600*

Size		Approx. Weight		W-Width		L-Open		L-Closed		H-Face to Face		F-Overall		Part Number
Inches	mm	Lb.	Kg.	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
4	100	177	80	10-3/4	273	21-3/8	543	21-3/8	543	5	127	10-3/4	273	09-0096-0000
6	150	450	204	14	356	26-1/8	664	26-1/8	664	6-1/2	165	13-1/2	343	09-0061-0000
8	200	575	261	16-1/2	419	31-3/8	797	31-3/8	797	7-1/8	181	14-7/8	378	09-0060-0000
10	250	950	431	20	508	37-1/4	946	37-1/4	946	8	203	16-1/2	419	09-0067-0000
12	300	1500	680	22	559	41	1041	41	1041	9-15/16	252	18-1/2	470	09-0058-0000
16	400	3000	1361	27	686	48-5/8	1235	48-5/8	1235	11-3/4	298	21-3/4	552	09-0054-0000
18	450	3750	1700	29-1/4	743	54	1372	54	1372	13-5/16	338	24	610	09-0063-0000
20	500	4700	2132	32	813	57-5/8	1464	57-5/8	1464	13-3/4	349	24-7/8	632	09-0029-0000
22	550	6200	2812	34-1/4	870	62-1/8	1578	62-1/8	1578	13-3/4	349	25-7/8	651	09-0543-0000
24	600	6300	2858	37	940	102-1/8	2594	76-1/8	1934	13-7/8	352	26-5/8	676	09-0162-0000
26	650	8500	3856	40	1016	105	2667	78-1/4	1988	16-1/4	413	30	762	09-0134-0000
30	750	11300	5126	53-1/4	1353	114-1/8	2899	84	2134	17-3/4	451	35	889	08-0584-0000
34	850	15500	7031	49	1245	134-3/8	3413	98-3/8	2499	19-7/8	505	35-3/8	898	09-0156-0000
36	900	23000	10433	51-3/4	1314	140-3/4	3575	104	2642	25-1/2	648	41-3/4	1060	09-0716-0000
40	1000	27250	--	57-1/8	1450	153	3886	114	2896	22-5/8	575	41-5/8	1057	09-0506-0000
48	1200	32500	14742	64	1626	175-3/4	4464	127	3226	22-9/16	573	45	1143	09-0536-0000

*Covers bolt pattern only. See Maximum Operating Pressures Chart.



SANDWICH® Valves

Maximum Operating Pressures**

Class	PN	4- through 20-inch (100- through 500-mm)		22- through 36-inch** (550- through 900-mm)	
		psi	bar	psi	bar
150	20	275	20	275	20
300	50	720	50	720	50
400	64	960	64	720	50
600	100	1200	83	900	62

40 in. (1000 mm)					
400	64	600	41		

**Note: 22- through 36-inch (550- through 900-mm) Class 600 (PN 100) SANDWICH® Valve ordered from and manufactured by TDW (UK) in England and TDW (S.A.) in Belgium have a standard maximum operating pressure of 1000 psi (70 bar).

IMPORTANT: Contact factory for bolt circle dimensions for sizes above 36 inch.

Full Rated ASME Class 600 SANDWICH® Valves

Nom. Size		Approx. Weight		W-Width		L-Open		L-Closed		H-Face to Face		F-Overall		Part Number
Inches	mm	Lb.	Kg.	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
8	200	630	286	16.5	420	34.62	880	34.62	880	9.19	234	17.25	438	09-0702-0000
10	250	1400	635	20.0	508	39.88	1013	39.88	1013	10.44	266	19.25	489	09-0703-0000
12	300	1900	862	22.0	559	44.00	1118	44.00	1118	11.31	288	20.50	521	09-0704-0000
14	350	2400	1089	23.75	604	45.75	1162	45.75	1162	11.94	304	21.75	553	09-0705-0000
16	400	3500	1588	27.00	686	49.88	1267	49.88	1267	13.06	332	23.40	595	09-0706-0000
18	450	4100	1860	29.25	743	54.13	1375	54.13	1375	13.88	353	25.00	635	09-0707-0000
20	500	5090	2309	32.00	813	58.88	1496	58.88	1496	14.94	379	26.50	673	09-0708-0000
22	550	6250	2835	34.25	870	63.75	1620	63.75	1620	16.09	409	28.00	712	09-0709-0000
24	600	8300	3765	37.00	940	107.13	2721	82.00	2721	17.38	442	30.50	775	09-0710-0000
30	750	14000	6351	44.50	1131	128.50	3264	97.38	3264	20.94	532	36.00	915	09-0713-0000
34	850	18500	8392	49.00	1245	141.00	3582	105.88	3582	23.19	587	39.00	991	09-0715-0000
36	900	20000	9072	51.75	1315	147.75	3753	110.62	3753	24.44	621	41.00	1042	09-0716-0000

The above SANDWICH® Tapping Valves are fully rated to 1480 psi @ 100° F and are compatible with NACE MRO 1-75 applications. They also feature a raised-face flange design. Consult factory for other sizes.

SHORTSTOPP® Welding Fittings

Sizes: 1-1/4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.003.03

Date: September 2005

Cross Indexing No: n/a

Supersedes: 2100.003.02 (10/02)



■ **SHORTSTOPP®
Welding Fitting**
Sizes 1-1/4", 1-1/2", 2" and 3"



■ **SHORTSTOPP® 285
Purge & Equalization
Fitting**
Size 2"



■ **SHORTSTOPP®
Welding Fitting**
Sizes 4" through 12"

Description

SHORTSTOPP® Welding Fittings are designed for use with TDW SHORTSTOPP Plugging Machine systems. They are used for main relocations, equipment tie-ins, lateral connections, line extensions, crossovers, and purge and equalization – all without temporary bypass or shutdown.

Fittings are available in sizes 1-1/4", 1-1/2", 2" and 3" (DN 32, DN 38, DN 50 and DN 80) and in sizes 4" through 12" (DN 100 - DN 300). The SHORTSTOPP Purge & Equalization Fitting is available in 2" size only.

The design of the 4" through 12" (DN 100 - DN 300) Type IIA Welding Fitting requires a reusable bolt-on flange adapter for TDW SHORTCUTT® and SHORTSTOPP Valves.

Features

When used with SHORTSTOPP Plugging Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100°F (38°C) or 245 psi (17 bar) at 180°F (82°C) per ASME B31.4. See chart on page 3 for MOAP per ASME B31.8.

1-1/4" through 3"
Cap: Malleable Iron
Plug: C1213 CF Steel

Nipple: A106 GR B SMLS Steel Pipe
O-Ring: Buna-N

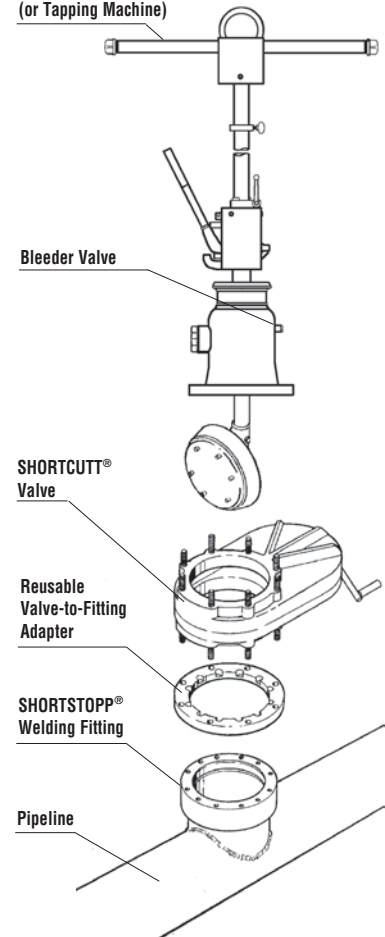
4" through 12"

Nipple: A106 GR B SMLS Steel Pipe
O-Ring: Buna-N

Typical SHORTSTOPP® System Setup

4" through 12" (100 mm - 300 mm)

SHORTSTOPP® II
Plugging Machine
(or Tapping Machine)



Bleeder Valve

SHORTCUTT®
Valve

Reusable
Valve-to-Fitting
Adapter

SHORTSTOPP®
Welding Fitting

Pipeline

The design of the 4" through 12" (100 mm - 300 mm) Type IIA Welding Fitting requires a reusable bolt-on flange adapter which adapts the fitting to TDW SHORTCUTT® Valves.

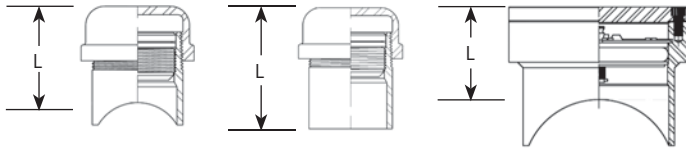
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® Welding Fittings



■ 1-1/4" through 3"

■ 2" only

■ 4" through 12"



■ 1-1/4" through 3"
Welding fitting includes cap, completion plug, O-ring and nipple.



■ 2" only
Purge & Equalization fitting includes cap, completion plug, O-ring and nipple.



■ 4" through 12"
Welding fitting includes cover flanges with bolts, gasket and plastic caplugs, completion plug, O-ring and flanged nipple.

Dimensions

Size		L	
Inches	DN	Inches	mm
1-1/4	32	2-5/16	75
1-1/2	38	3	80
2	50	3	80
2 (flat)	50	3-7/16	88
3	80	3-7/8	98
4	100	4-3/8	111
6	150	5-3/16	132
8	200	5-5/16	135
10	250	6	152
12	300	6	152
3 x 4	80 x 100	3-7/8	98
4 x 6	100 x 150	4-3/8	111
6 x 8	150 x 200	5-3/16	132
8 x 10	200 x 250	5-5/16	135
8 x 12	200 x 300	5-5/16	135

Valve-to-Fitting Adapters for 4" through 12"

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	10	5	06-5724-0001
6	150	13	6	06-5724-0002
8	200	25	11	06-5724-0003
10	250	40	18	06-5724-0010
12	300	55	25	06-5724-0011
4 x 6	100 x 150	18	8	06-5724-0007
6 x 8	150 x 200	28-1/2	13	06-5724-0004
8 x 10	200 x 250	44	20	06-5724-0009
10 x 12	250 x 300	70	32	06-5724-0012

The 4" x 6", 6" x 8", 8" x 10" and 10" x 12" adapters are used to adapt the valve to the next smaller fittings.



SHORTSTOPP® Welding Fittings

SHORTSTOPP® Welding Fittings for Use with SHORTSTOPP® 60, SHORTSTOPP® II and SHORTSTOPP® 275 Plugging Machines

Maximum allowable operating pressure (in psi) per ASME B31.8 at -20 to +100° F

Size		Weight		Part Number	Design Factor			
Inches	DN	Lbs.	Kg.		0.72	0.6	0.5	0.4
1-1/4	32	1-1/2	0.7	06-1179-0000	285	285	285	285
1-1/2	38	2	0.9	26-0211-0000	285	285	285	285
2	50	2.5	1.1	26-0212-0000	285	285	285	285
2 (flat)	50	2	0.9	26-0319-0000 (no bevel)	285	285	285	285
3	80	3.5	1.6	26-0213-0000	285	285	285	285
4	100	18	8	06-7213-0000	285	285	285	285
6	150	40	18	06-7214-0000	285	285	285	285
8	200	64	29	06-7215-0000	285	285	285	275
10	250	120	54	06-7216-0000	285	285	285	240
12	300	165	75	06-7217-0000	285	285	275	220
3 x 4	80 x 100	3.5	1.6	26-0324-0000	285	285	285	250
4 x 6	100 x 150	18	8	06-9541-0000	285	285	285	285
6 x 8	150 x 200	40	18	06-9542-0000	285	285	285	280
8 x 10	200 x 250	64	29	06-9543-0000	285	285	285	245
8 x 12	200 x 300	64	29	06-9544-0000	285	285	285	225

Minimum Pipe Wall Thicknesses (Inches)

Size Inches	Header Pipe OD	Design Factor Min. Pipe Wall Thickness			
		0.72	0.60	0.50	0.40
1-1/4	1.660	0.019	0.023	0.027	0.034
1-1/2	1.900	0.021	0.026	0.031	0.039
2 (incl. flat)	2.375	0.027	0.032	0.039	0.048
3	3.500	0.040	0.048	0.057	0.071
4	4.500	0.051	0.061	0.073	0.092
6	6.625	0.075	0.090	0.108	0.135
8	8.625	0.098	0.117	0.140	0.176
10	10.750	0.122	0.146	0.175	0.219
12	12.750	0.144	0.173	0.208	0.260
3 x 4	4.500	0.051	0.061	0.073	0.092
4 x 6	6.625	0.075	0.090	0.108	0.135
6 x 8	8.625	0.098	0.117	0.140	0.176
8 x 10	10.750	0.122	0.146	0.175	0.219
8 x 12	12.750	0.144	0.173	0.208	0.260

Spare O-Rings & Gaskets

Size Inches	DN	Spare O-Rings	Spare Gaskets
		Part Number	Part Number
1-1/4	32	00-0117-0014	--
1-1/2	38	00-0117-0010	--
2 (incl. flat)	50	00-0117-0010	--
3	80	00-0117-0013	--
4	100	00-1250-0001	00-5238-0004-01
6	150	00-1250-0002	00-5238-0006-01
8	200	00-1250-0003	00-5238-0008-01
10	250	00-1250-0004	00-5238-0010-01
12	300	00-1250-0005	00-5238-0012-01
3 x 4	80 x 100	00-0017-0013	--
4 x 6	100 x 150	00-1250-0001	00-5238-0004-01
6 x 8	150 x 200	00-1250-0002	00-5238-0006-01
8 x 10	200 x 250	00-1250-0003	00-5238-0008-01
8 x 12	200 x 300	00-1250-0003	00-5238-0008-01

Note: The TDW fitting provides sufficient material wall thickness for itself and in many cases reinforcement for the branch opening in the pipe. However, the chart above specifies minimum wall thickness of the pipe for self reinforcement. (Based on 35,000 PSI SMYS)

SHORTSTOPP® 300D Split Tees

Sizes: 2" through 12"



T.D. Williamson, Inc.

Bulletin No: 2100.004.04
Date: January 2011
Cross Indexing No: n/a
Supersedes: 2100.004.03 (05/10)



■ SHORTSTOPP® 300D Split Tee

Description

The SHORTSTOPP® 300D Fitting is an extruded-style split tee. The fitting is furnished with a flange that is drilled, faced, and pressure rated to match ASME Class 300 flanges. It is used with TDW plugging machines to temporarily plug the line for maintenance or repair, without shutdown. The flange is machined to accept 300D Completion Plugs.

Features

Quality control measures include inspection to ensure a proper fit on the pipeline, flange alignment verification, and radiographic weld inspection* to API Standard 1104.

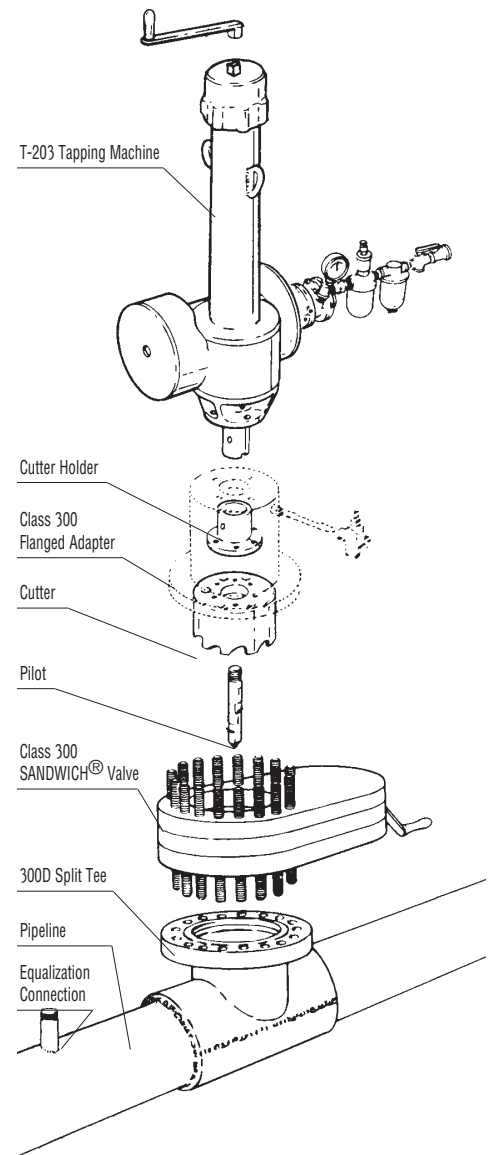
The maximum operating pressure of the SHORTSTOPP® 300D Fitting is 740 psi (51 bar) at 100°F (38°C). The maximum operating temperature of the SHORTSTOPP® 300D Fitting is 180°F (82°C) at 675 psi (47 bar) per ASME B31.4. See chart on page 2 for MAOP per ASME B31.8.

All fittings are stamped with a code number for material identification, and a painted band ensures easy alignment in the field. Material certificates are available.

The 4" and larger fittings are complete with blind flange, studs, nuts, gasket, O-ring, and completion plug. The 2" and 3" sizes are furnished with a threaded cap, completion plug, and O-ring.

* 100% ultrasonic examination performed at TDW's Nivelles, Belgium plant.

■ Typical Tapping Setup



Maximum Pressure: 740 psig @ 100°F
Maximum Temperature: 180°F @ 675 psig

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



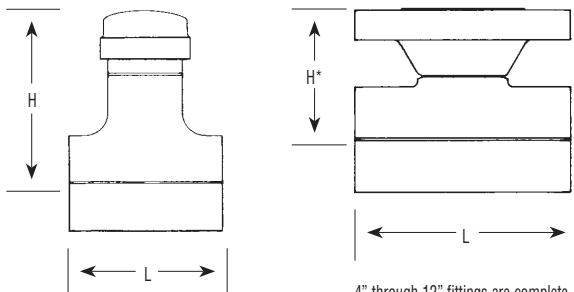
SHORTSTOPP® 300D Split Tees - .5 Design Factor

300D Split Tees Class 300

Maximum allowable operating pressure (in PSI) per ASME B31.8 at -20 to +100° F

Size		Weight		Design Factor				Part Number
Inches	DN	Lbs.	Kg.	0.72	0.60	0.50	0.40	
2	50	9	4	740	740	740	740	26-0214-0000-00
3	80	15	7	740	740	740	740	26-0215-0000-00
4	100	80	36	740	740	740	740	26-2299-0004-00
6	150	150	68	740	740	740	605	26-2299-0006-00
8	200	240	109	740	740	740	640	26-2299-0008-00
10	250	390	177	740	740	740	605	26-2299-0010-00
12	300	570	259	740	740	740	605	26-2299-0012-00

Dimensions



2" and 3" fittings include cap, completion plug, and O-ring.

4" through 12" fittings are complete with blind flange, studs, nuts, gasket, O-ring, and completion plug.

Size		L		H*	
Inches	DN	Inches	mm	Inches	mm
2	50	5.75	146	5.56	141
3	80	7.67	195	11.69	297
4	100	10.75	273	6.22	158
6	150	14.00	356	7.91	201
8	200	16.50	419	9.47	240
10	250	20.00	508	11.03	280
12	300	22.00	559	12.72	323

*Does not include blind flange and gasket.

Spare O-Rings

Size		Part Number
Inches	DN	
2	50	00-0117-0010
3	80	00-0117-0013
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

300D Completion Plugs** Class 300

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
2	50	07-1745-0000-00	1	0.3
3	80	07-1746-0000-00	2.1	1
4	100	07-0351-0000-00	2.5	1
6	150	07-1027-0000-00	10	5
8	200	07-1853-0000-00	20	9
10	250	07-1854-0000-00	31	14
12	300	07-1855-0000-00	44	20

**Plug setting pressure limited to pressure rating of completion machine.



SHORTSTOPP® 3-WAY™ Tee

Sizes: 1-1/4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.002.03
Date: September 2009
Cross Indexing No: n/a
Supersedes: 2100.002.02 (10/02)



■ **Threaded 3-WAY Tee Fitting**
Sizes: 1-1/4" through 3"



■ **Flanged 3-WAY Tee Fitting**
Sizes: 4" through 12"

Description

TDW's 3-WAY™ Tee is designed for use with the TDW SHORTSTOPP® Plugging Machine Systems. It is used for main relocations, equipment tie-ins, lateral connections, line extensions and for making crossovers, all without shutdown.

The design of the 4" (DN 100) through 12" (DN 300) Type IIA 3-WAY Tee requires a reusable bolt-on flange adapter which adapts the tee to TDW SHORTCUTT® and SHORTSTOPP Valves.

When used with SHORTSTOPP Plugging

Features

Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

All fittings are compatible with most ASME Class 150 applications. With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100°F (38°C) or 245 psi (17 bar) at 180°F (82°C) per ASME B31.4. See chart on page 2 for MAOP per ASME B31.8.

Sizes 1-1/4" (DN 32) and 2" (DN 50) tees are forged ASTM A-105. Size 3" (DN 80) tees are ASTM A-234 Grade WPB steel. Sizes 4" through 12" (DN 100 - 300) tees are either fabricated from ASTM A-106 Grade B or ASTM A-234 Grade WPB steel.

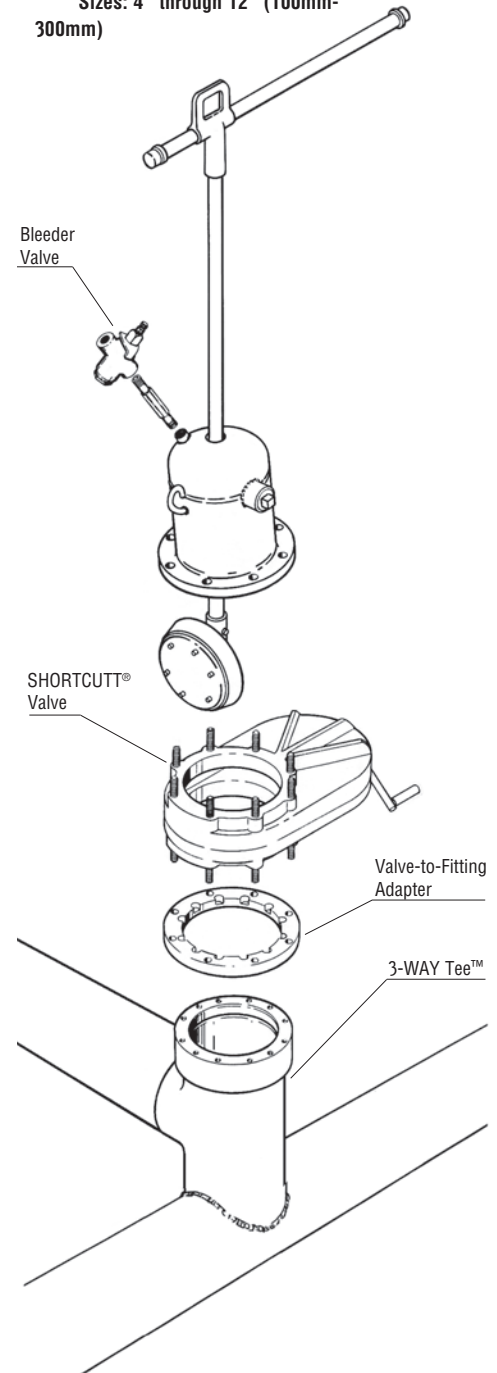
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

■ Typical Setup

Sizes: 4" through 12" (100mm-300mm)





Dimensions and Part Numbers

SHORTSTOPP® 3-WAY™ Tee

3-WAY™ Tee for SHORTSTOPP® 60 and SHORTSTOPP® 275

Maximum allowable operating pressure (in psi) per ASME B31.8 at -20 to +100° F

The 3-WAY Tee 1-1/4" through 3" includes: cap, completion plug, O-ring and tee.

The 3-WAY Tee 4" through 12" includes: cover flange with gasket, bolts and plastic caplugs, completion plug, O-Ring and tee.

Size	Weight		Design Factor				Part Number	
	Inches	DN	Lbs.	Kg.	0.72	0.60		0.50
1-1/4	32	4	2	285	285	285	285	06-6741-0000-00
1-1/2	38	4.5	2	285	285	285	285	26-0216-0000-00
2	50	5.5	2.5	285	285	285	285	26-0217-0000-00
3	80	11	5	285	285	285	285	26-0218-0000-00
4	100	36	16	285	285	285	285	06-7218-0000-00
6	150	51	23	285	285	285	285	06-7219-0000-00
8	200	92	42	285	285	285	285	06-7220-0000-00
10	250	162	74	285	285	285	225	06-7221-0000-00
12	300	240	109	285	265	220	175	06-7222-0000-00
3 x 4	80 x 100	11	5	285	285	285	285	26-0325-0304-01
4 x 6	100 x 150	35	16	285	285	285	285	06-7239-0406-01
6 x 8	150 x 200	50	23	285	285	285	285	06-7240-0608-01
8 x 10	200 x 250	125	57	285	285	285	285	06-7241-0810-01
8 x 12	200 x 300	125	57	285	285	285	285	06-7241-0812-01

Minimum Pipe Wall Thickness (Inches)

Size	Header Pipe OD	Design Factor Min. Pipe Wall Thickness			
		.072	0.60	0.50	0.40
1-1/4	1.660	0.019	0.023	0.027	0.034
1-1/2	1.900	0.021	0.026	0.031	0.039
2	2.375	0.027	0.032	0.039	0.048
3	3.500	0.040	0.048	0.057	0.071
4	4.500	0.051	0.061	0.073	0.092
6	6.625	0.075	0.090	0.108	0.135
8	8.625	0.098	0.177	0.140	0.176
10	10.750	0.122	0.146	0.175	0.219
12	12.750	0.144	0.173	0.208	0.260
3 x 4	4.500	0.051	0.061	0.073	0.092
4 x 6	6.625	0.075	0.090	0.108	0.135
6 x 8	8.625	0.098	0.117	0.140	0.176
8 x 10	10.750	0.122	0.146	0.175	0.219
8 x 12	12.750	0.144	0.173	0.208	0.260

Spare O-Rings & Gaskets

Size	DN	Spare O-Rings Part Number	Spare Gaskets Part Number
1-1/4	32	00-0117-0014	--
1-1/2	38	00-0117-0010	--
2	50	00-0117-0010	--
3	80	00-0017-0013	--
4	100	00-1250-0001	00-5238-0004
6	150	00-1250-0002	00-5238-0006
8	200	00-1250-0003	00-5238-0008
10	250	00-1250-0004	00-5238-0010
12	300	00-1250-0005	00-5238-0012
3 x 4	80 x 100	00-0017-0013	--
4 x 6	100 x 150	00-1250-0001	00-5235-0004
6 x 8	150 x 200	00-1250-0002	00-5238-0006
8 x 10	200 x 250	00-1250-0003	00-5238-0008
8 x 12	200 x 300	00-1250-0003	00-5238-0008

Note: The TDW fitting provides sufficient material thickness for itself and in many cases reinforcement for the branch opening in the pipe. However, the chart above specifies minimum wall thickness of the pipe for self reinforcement. (Based on 35,000 PSI SMYS)



SHORTSTOPP® 3-WAY™ Tee

Valve-to-Fitting Adapters for 4" through 12"

The 4" x 6", 6" x 8" and 10" x 12" adapters are used to adapt the valve to the next size smaller fittings.

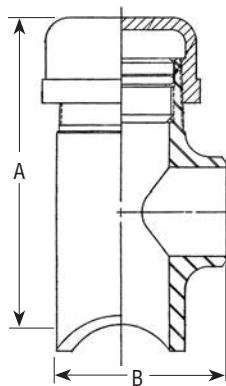
Inches	DN	Lbs.	Kg.	Part Number
4	100	10	5	06-5724-0001
6	150	13	6	06-5724-0002
8	200	25	11	06-5724-0003
10	250	40	18	06-5724-0010
12	300	55	25	06-5724-0011
4 x 6	100 x 150	18	8	06-5724-0007
6 x 8	150 x 200	28.5	13	06-5724-0004
10 x 12	250 x 300	70	32	06-5724-0012

Dimensions

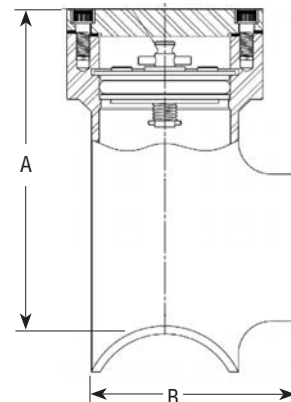
Size		A		B	
Inches	DN	Inches	mm	Inches	mm
1-1/4	32	4-3/4	121	2-5/8	67
1-1/2	38	6-5/16	160	2-9/16	65
2	50	5-1/4	133	3-1/4	83
3	80	7-3/16	183	4-3/4	121
4	100	9-13/16	249	6-3/4	171
6	150	13-1/4	338	8-13/16	224
8	200	14-13/16	376	10-3/4	273
10	250	19	483	14-7/8	378
12	300	21-1/2	546	17-3/8	441
3 x 4	80 x 100	7-3/16	183	4-3/4	121
4 x 6	100 x 150	9-13/16	249	6-3/4	171
6 x 8	150 x 200	13-5/16	338	8-13/16	224
8 x 10	200 x 250	14-13/16	376	10-3/4	273
8 x 12	200 x 300	19	483	14-7/8	378



■ Valve-to-Fitting Adapter



■ Sizes: 1-1/4" through 3"



■ Sizes: 4" through 12"

Flat-Bottomed Tees

Sizes: 1-1/4- to 12-inches



T.D. Williamson

Bulletin No: 2100.005.04

Version: 05.2017

Cross Indexing No: n/a

Supersedes: 2100.005.03 (05.2005)



■ Threaded Flat-Bottomed Tee
Sizes 1-1/4- through 3-inch



■ Flanged Flat-Bottomed Tee
Sizes 4- through 12-inch

Description

Flat-Bottomed Tees are designed for hot tap tie-ins of lateral taps and crossover connections, eliminating need for a valve on the connection.

The Flat-Bottomed Tee is provided with a weld bevel. TDW recommends the review of approved welding procedures for the appropriate gaps between the flat-bottomed tee and the header pipe. For pre-scarfed 3-Way Tees, refer to bulletin 2100.002.

To isolate flow or pressure into connecting lines, the side outlet of the tee can be plugged with TDW SHORTSTOPP® 60 Plugging Machine equipment at pressures up to 60 psi or with SHORTSTOPP® II at pressures up to 150 psi.

For higher pressures up to 285 psi, special side outlet plugging equipment is available on special order. Consult the factory.

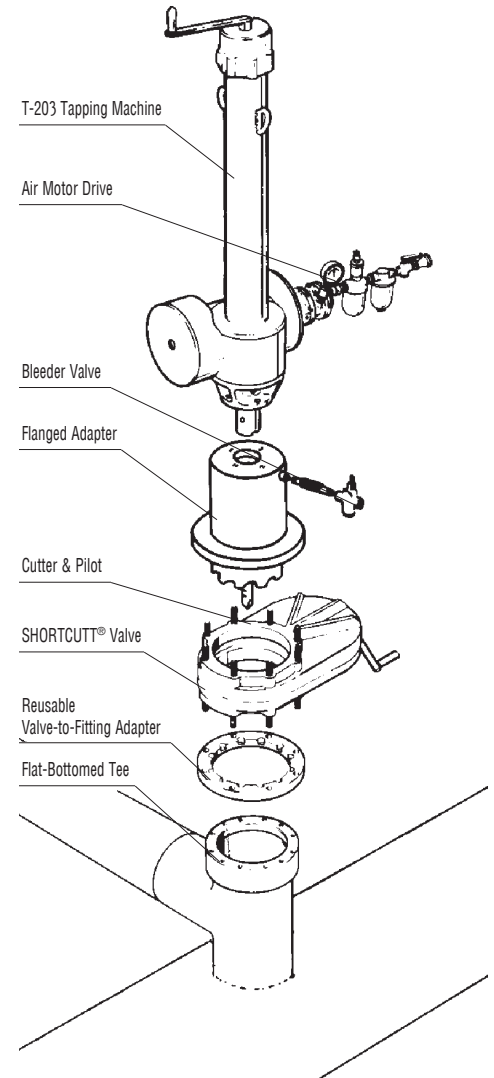
Features

The design of the 4 in., 6 in., 8 in., 10 in. and 12 in. Type IIa Flat-Bottomed Tee requires a reusable, bolt-on flange adapter which adapts the tee to valves with ASME Class 150 bolt patterns.

When used with SHORTSTOPP® Plugging Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

All fittings are compatible with most ASME Class 150 applications. With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100° F (38° C) or 245 psi (17 bar) at 180° F (82° C) per ASME B31.4. See chart on page 2 for MOAP per ASME B31.8.

■ Typical 4- through 12-in. Tapping Setup





Flat-Bottomed Tees



■ **Threaded Flat-Bottomed Tees**
Sizes 1-1/4- through 3-in. (DN 32 - 80)

Complete Threaded Flat-Bottomed Tee includes: cap, completion plug, O-ring and tee.

Flat-Bottomed Tees for Use with SHORTSTOPP® 60, SHORTSTOPP® II and SHORTSTOPP® 275 Plugging Machines

Size Inches	DN	Part Number	Approx. Weight		Design Factor**				Nominal Wall Thickness
			Lb.	Kg.	0.72	0.60	0.50	0.40	Side Outlet
1-1/4	32	06-7313-0000	4	1.8	285	285	285	285	Schedule 40
1-1/4	32	06-8619-0000	4	1.8	285	285	285	285	Schedule 40
1-1/2	38	26-0219-0000	6	2.8	285	285	285	285	Schedule 40
2	50	26-0220-0000	7.5	3.5	285	285	285	285	Schedule 40
3	80	26-0221-0000	13	6	285	285	285	285	Schedule 40

* For thin wall pipe to side outlet.
** Maximum Allowable Operating Pressure (in psi), Per ASME B31.8 at -20 to +100° F
NOTE: Drilling and plug setting at pressures to 285 psi at 100° F using high pressure, full-opening (2-1/16 in. and 3-1/16 in.) tapping valve or new SHORTCUTT® 500 Valves.



■ **Flanged Flat-Bottomed Tees**
Sizes 4- through 12-in. (DN 100 - 300)

Complete Flanged Flat-Bottomed Tee includes: cover flange, gasket, bolts, plastic capplugs, completion plug with O-ring and tee.

All Flat-Bottomed Tees are designed to meet ASME Class 150 service ratings and are for maximum operating pressures of 245 psi at 180° F or 285 psi (20 bar) at 100° F (38° C) after plugging equipment has been removed.

Flat-Bottomed Tees for Use with SHORTSTOPP® 60, SHORTSTOPP® II and SHORTSTOPP® 275 Plugging Machines

Size Inches	DN	Part Number	Weight		Design Factor**				Nominal Wall Thickness
			Lb.	Kg.	0.72	0.60	0.50	0.40	Side Outlet
4	100	06-7239-0400-01	35	16	285	285	285	285	Schedule 40
4*	100	06-7239-0400-02	35	16	285	285	285	285	.188"
6	150	06-7240-0600-01	50	23	285	285	285	285	Schedule 40
6*	150	06-7240-0600-02	50	23	285	285	285	285	.188"
8	200	06-7241-0800-01	125	57	285	285	285	285	Schedule 40
8*	200	06-7241-0800-02	125	57	285	285	285	285	.219"
10	250	06-7319-1000-01	160	72.5	285	285	285	285	Schedule 40
10*	250	06-7319-1000-02	160	72.5	285	285	285	285	.235"
12	300	06-7320-1200-01	230	104	285	270	225	180	.375"
12*	300	06-7320-1200-02	230	104	285	270	225	180	.250"

* For thin wall pipe to side outlet
** Maximum Allowable Operating Pressure (in psi), Per ASME B31.8 at -20 to +100° F
NOTE: Plug setting limited to 60 psi if using SHORTSTOPP® 60 equipment. Type II completion plugs are set at pressures up to 285 psi using SHORTSTOPP® 275/500 completion machines.

Minimum Pipe Thickness (Inch)

Size	Header Pipe OD	Design Factor			
		0.72	0.60	0.50	0.40
1-1/4	1.66	0.019	0.023	0.027	0.034
1-1/2	1.90	0.021	0.026	0.031	0.039
2	2.375	0.027	0.032	0.039	0.048
3	3.50	0.040	0.048	0.057	0.071
4	4.50	0.051	0.061	0.073	0.092
6	6.625	0.075	0.090	0.108	0.135
8	8.625	0.098	0.117	0.140	0.176
10	10.75	0.122	0.146	0.175	0.219
12	12.75	0.144	0.173	0.208	0.260

NOTE: The TDW Fitting provides sufficient material thickness for itself and in many cases reinforcement for the branch opening in the pipe. The chart above specifies the minimum required wall thickness of pipe needed for self-reinforcement. (Based on 35,000 PSI SMYS.) The thicknesses shown in the chart include the thickness required for hoop and area of reinforcement.



Valve-To-Fitting Adapters

Spare Parts

Size		Spare O-Rings Part Number	Type IIa* Spare Gaskets Part Number
Inches	DN		
1-1/4	32	00-0117-0014	--
1-1/2	38	00-0117-0010	--
2	50	00-0117-0010	--
3	80	00-0117-0013	--
4	100	00-1250-0001	00-5238-0004-01
6	150	00-1250-0002	00-5238-0006-01
8	200	00-1250-0003	00-5238-0008-01
10	250	00-1250-0004	00-5238-0010-01
12	300	00-1250-0005	00-5238-0012-01

*For use with Type IIa flanges only. Consult factory if gaskets are needed for Type II flanges.



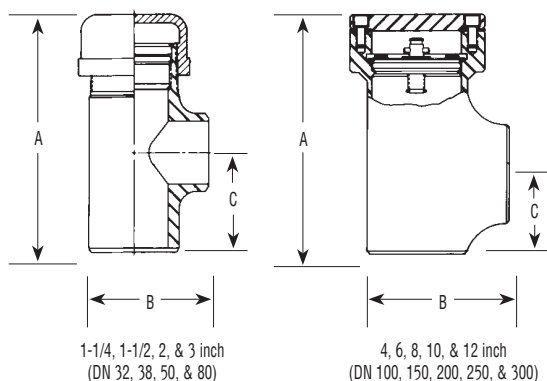
■ Valve-to-Fitting Adapter

The 4 x 6, 6 x 8, 8 x 10 and 10 x 12 inch adapters are used to adapt valve to next smaller size fitting.

Valve-to-Fitting Adapters for 4- through 12-in. Flat-Bottomed Tees

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
4	100	06-5724-0001	10	5
4x6	100x150	06-5724-0007	18	8
6	150	06-5724-0002	13	6
6x8	150x200	06-5724-0004	28-1/2	13
8	200	06-5724-0003	25	11
8x10	200x250	06-5724-0009	44	20
10	250	06-5724-0010	40	18
10x12	250x300	06-5724-0012	70	32
12	300	06-5724-0011	55	25

Dimensions



Size		A		B		C	
Inches	DN	Inches	mm	Inches	mm	Inches	mm
1-1/4**	32	3-15/16	100	2-5/8	67	1-3/4	44
1-1/4***	32	5-3/4	121	2-5/8	67	3-5/8	92
1-1/2	38	7-3/16	152	3-1/4	83	3-1/2	89
2	50	7-1/4	184	3-1/4	83	3-3/4	95
3	80	10-1/8	257	4-3/4	121	4-7/16	113
4	100	11-1/2	292	6-3/8	162	4-1/8	105
6	150	15-1/8	384	8-13/16	224	5-3/8	136
8	200	17-3/8	441	10-7/8	276	6-7/16	163
10	250	21	533	14-7/8	378	9-5/8	244
12	300	23-13/16	605	17-3/8	441	11-7/16	290

**Refers to Part Number 06-7313-0000

***Refers to Part Number 06-8619-0000



T.D. Williamson

2100.005.04 pg.4

SHORTSTOPP® 3-WAY™ Tees

300D Full Encirclement; Sizes 2- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.006.02

Date: May 2010

Cross Indexing No: n/a

Supersedes: 2100.006.01 (10/99)



■ **SHORTSTOPP® 3-WAY™ Tee**
300D Full Encirclement, Sizes 2" & 3"



■ **SHORTSTOPP® 3-WAY™ Tee**
300D Full Encirclement, Sizes 4" through 12"

Description

The SHORTSTOPP® 3-WAY™ Tee 300D is welded to an extruded-style split tee. The fittings, 4" and larger, are furnished with a flange—drilled, faced, and pressure-rated to match ASME Class 300 flanges. They are used with TDW plugging machines to temporarily plug the line, without shutdown, while installing a permanent bypass. The flange is machined to accept 300D Completion Plugs.

Features

Quality control measures include inspection to ensure a proper fit on the pipeline, flange alignment verification, and radiographic weld inspection* to API Standard 1104.

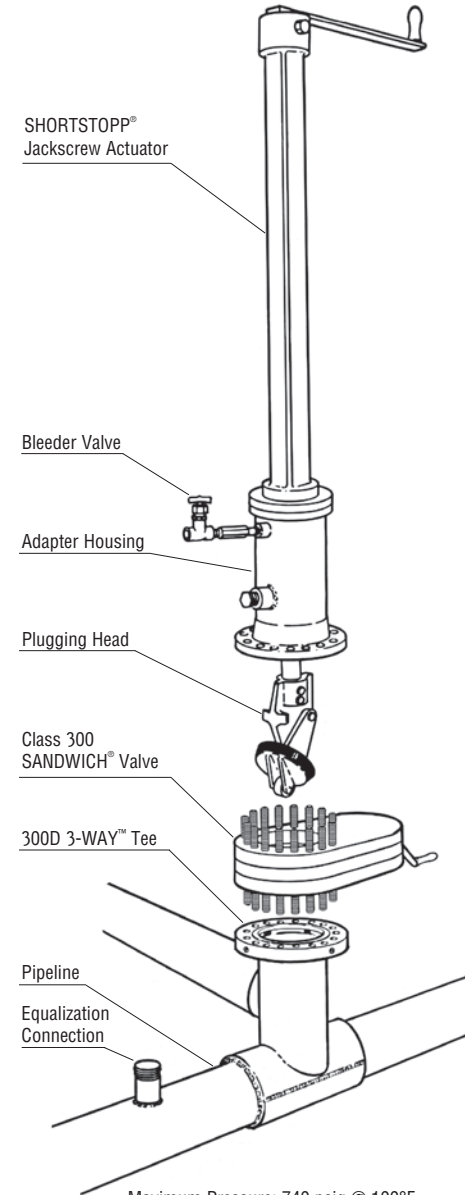
The maximum operating pressure of the SHORTSTOPP® 300D 3-WAY Tee is 740 psi (51 bar) at 100°F(38°C). Its maximum operating temperature is 180°F (82°C) at 675 psi (47 bar) per ASME B31.4. See chart on page 2 for MOAP per ASME B31.8

All fittings are stamped with a code number for material identification, and a painted band ensures easy alignment in the field. Material certificates are available.

The 4" and larger fittings are complete with blind flange, studs, nuts, gasket, O-ring, and completion plug. The 2" and 3" sizes are furnished with a threaded cap, completion plug, and O-ring.

*100% ultrasonic examination performed at TDW's Nivelles, Belgium plant.

Typical Plugging Setup



ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



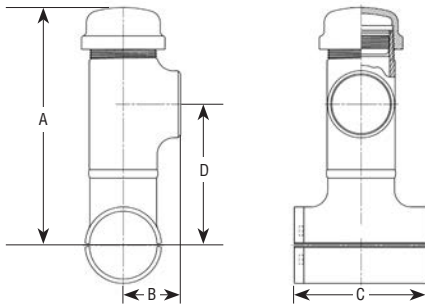
SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement

300D 3-WAY Tee™ Class 300

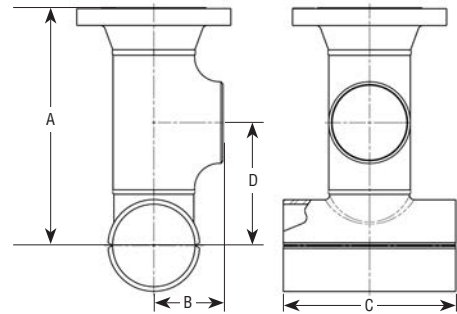
Maximum Allowable Operating Pressure (in psi) Per ASME B31.8 at -20 to +100° F

Size		Weight		Design Factor				Part Number
Inches	DN	Lbs.	Kg.	0.72	0.60	0.50	0.40	
2	50	12	5.4	740	740	740	740	26-0222-0000
3	80	23	10.4	740	740	740	740	26-0223-0000
4	100	91.5	41.5	740	740	740	740	06-8906-0000
6	150	176	79	740	740	740	635	06-8907-0000
8	200	288	130	740	740	665	530	06-8908-0000
10*	250	467	210	740	700	585	465	06-8909-0000
12*	300	689	310	740	645	535	430	06-8910-0000

2" and 3" fittings include cap, completion plug, and O-ring



4" through 12" fittings are complete with blind flange, studs, nuts, gasket, O-ring, and completion plug.



Dimensions

Size		A**		B		C		D	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	8.38	213	2.00	50	5.50	140	4.81	120
3	80	12.44	316	3.00	80	7.00	178	7.37	187
4	100	14.50	368	4.13	105	10.75	273	7.25	184
6	150	19.19	487	5.63	143	14.00	356	9.94	252.4
8	200	23.56	598	7.00	178	16.50	419	12.44	316
10*	250	28.12	714	8.50	216	20.00	508	15.25	387
12*	300	32.81	830	10.00	254	22.00	559	17.94	455.7

*NOTE: 300D 10" and 12" 3-WAY Tees™ cannot be tapped using the T-203 Tapping Machine due to insufficient travel.

**4" - 12" Flange Dimension "A" does not include blind flange and gasket.

Spare O-Rings

Size		Part Number
Inches	DN	
2	50	00-0117-0010
3	80	00-0117-0013
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

300D Completion Plugs* Class 300

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
2	50	07-1745-0000	1	1
3	80	07-1746-0000	2	1
4	100	07-0351-0000	2.5	1
6	150	07-1027-0000	10	5
8	200	07-1028-0000	20	9
10	250	07-1029-0000	31	14
12	300	07-1030-0000	44	20

***Plug setting pressure limited to pressure rating of completion machine.

SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement - .5 Design Factor

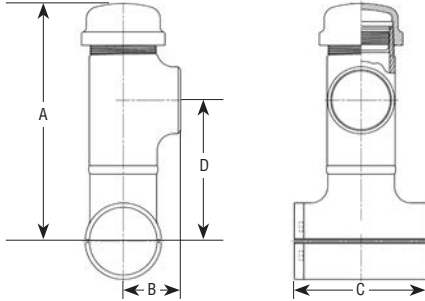
300D 3-WAY Tee™ Class 300

Maximum Allowable Operating Pressure (in psi) Per ASME B31.8 at -20 to +100° F

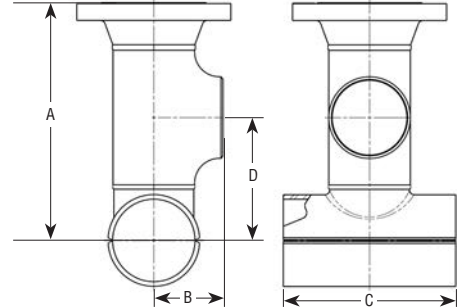
Size		Weight		Design Factor				Part Number
Inches	DN	Lbs.	Kg.	0.72	0.60	0.50	0.40	
2	50	12	5	740	740	740	740	26-0222-0000-00
3	80	23	10	740	740	740	740	26-0223-0000-00
4	100	95	43	740	740	740	740	26-2416-0004-SF
6	150	180	82	740	740	740	592	26-2416-0006-SF
8	200	290	132	740	740	740	592	26-2416-0008-SF
10	250	480	218	740	740	740	592	26-2416-0010-SF
12	300	700	318	740	740	740	592	26-2416-0012-SF

SF: 00 IS WITHOUT BACKUP STRIPS, 01 IS WITH BACKUP STRIPS

2" and 3" fittings include cap, completion plug, and O-ring



4" through 12" fittings are complete with blind flange, studs, nuts, gasket, O-ring, and completion plug.



Dimensions

Size		A**		B		C		D	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	8.38	213	2.00	50	5.50	140	4.81	120
3	80	12.44	316	3.00	80	7.00	178	7.37	187
4	100	14.50	368	4.13	105	10.75	273	7.25	184
6	150	19.19	487	5.63	143	14.00	356	9.94	252.4
8	200	23.56	598	7.00	178	16.50	419	12.44	316
10*	250	28.12	714	8.50	216	20.00	508	15.25	387
12*	300	32.81	830	10.00	254	22.00	559	17.94	455.7

*NOTE: 300D 10" and 12" 3-WAY Tees™ cannot be tapped using the T-203 Tapping Machine due to insufficient travel.

**4" - 12" Flange Dimension "A" does not include blind flange and gasket.

Spare O-Rings

Size		Part Number
Inches	DN	
2	50	00-0117-0010
3	80	00-0117-0013
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

300D Completion Plugs* Class 300

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
2	50	07-1745-0000-00	1	1
3	80	07-1746-0000-00	2	1
4	100	07-0351-0000-00	3	1
6	150	07-1027-0000-00	10	5
8	200	07-1853-0000-00	20	9
10	250	07-1854-0000-00	31	14
12	300	07-1855-0000-00	44	20

***Plug setting pressure limited to pressure rating of completion machine.

Spherical 3-WAY™ Tee

Sizes: 2- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.007.03
 Date: January 2005
 Cross Indexing No: n/a
 Supersedes: 2100.007.02 (10/02)



■ Spherical 3-WAY™ Tee
 Sizes 2" and 3"



■ Spherical 3-WAY™ Tee
 Sizes 4" through 12"

Description

Full-encirclement, low-profile Spherical 3-WAY™ Tee is designed for use with the TDW SHORTSTOPP® Plugging Machine system.

The bore of the 4" through 12" (DN 100 - DN 300) tee is internally grooved to engage the leaves of standard completion plugs. The 2" and 3" (DN 50 - DN 80) tees are internally threaded to receive completion plugs.

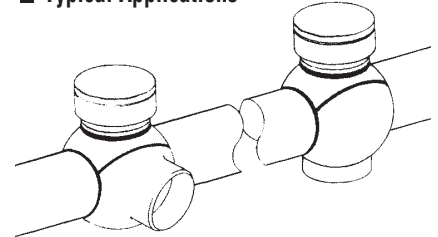
In the 4" through 12" sizes, reusable bolt-on flange adapters adapt the tee to TDW SHORTCUTT® and SHORTSTOPP® Valves.

Features

When used with SHORTSTOPP® Plugging Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

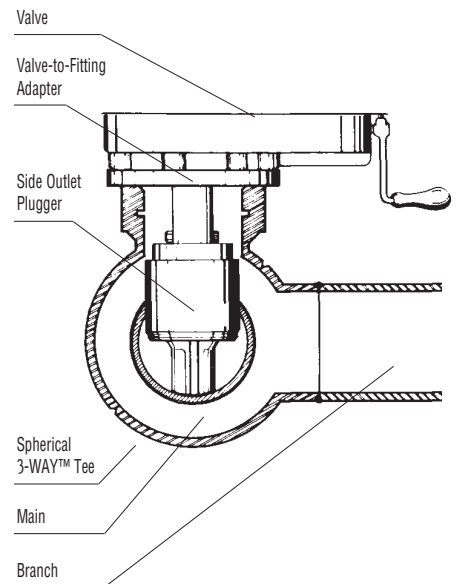
All fittings are compatible with most ASME Class 150 applications. With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100°F (38°C) or 245 psi (17 bar) at 180°F (82°C) per ASME B31.4. See chart on page 2 for MAOP per ASME B31.8.

Typical Applications



The bottom half of the Spherical 3-WAY™ Tee can be turned for either a side or bottom* outlet as illustrated. The tee can also be installed horizontally.

*Use of SHORTSTOPP® 275 Plugging Machines is not recommended in bottom outlet configuration.



The SHORTSTOPP® 275 system's Side Outlet Plugging is used with Spherical 3-WAY™ Tees to plug the tapped hole in a main. It forms a pressure-tight seal that simultaneously allows flow to continue in the main while preventing it from escaping into the side outlet. This permits maintenance work on the branch line without interruption of flow in the main line.

ISO 9001 Certified

Toll Free
1-888-TDWmSon (839-6766)



Spherical 3-WAY™ Tee



■ 2- and 3-inch

■ 4- through 12-inch

Valve-to-Fitting Adapters for 4" through 12" (DN 100 - DN 300) Spherical 3-WAY™ Tee

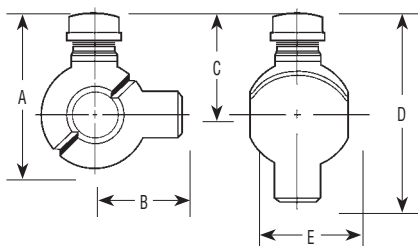
Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	10	5	06-5724-0001
6	150	13	6	06-5724-0002
8	200	25	11	06-5724-0003
10	250	40	18	06-5724-0010
12	300	55	25	06-5724-0011

Spherical 3-WAY™ Tee for Use with SHORTSTOPP® 60 and 275 Plugging Machines

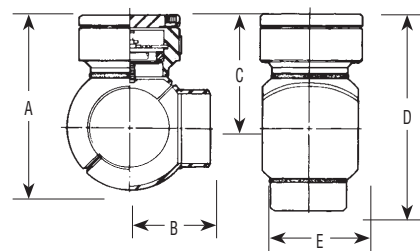
Maximum Allowable Operating Pressure in PSI, Per ASME B31.8 at -20 to +100° F

Size		Weight		Part Number	Design Factor				Spare O-rings	Spare Gaskets
Inches	DN	Lbs.	Kg.		0.72	0.6	0.5	0.4		
2	50	22	10	26-0932-0000	285	285	285	285	00-0117-0010	--
3	80	32	15	26-0933-0000	285	285	285	285	00-0117-0013	--
4	100	40	18	26-0934-0000	285	285	285	285	00-1250-0001	00-5238-0004-01
6	150	80	36	06-7224-0000	285	285	285	285	00-1250-0002	00-5238-0006-01
8	200	101	46	06-7225-0000	285	285	285	285	00-1250-0003	00-5238-0008-01
10	250	177	80	06-7226-0000	285	285	285	285	00-1250-0004	00-5238-0010-01
12	300	252	114	06-7227-0000	285	285	285	285	00-1250-0005	00-5238-0012-01

Spherical 3-WAY™ Tee complete includes: cap or cover flange with gasket, cap screws and plastic caplugs, completion plug and tee.



Sizes 2" (50 mm) and 3" (80 mm)



Sizes 4" (100 mm), 6" (150 mm), 8" (200 mm), 10" (250 mm) and 12" (300 mm)

Dimensions

Size		A		B		C		D		E	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	10	254	4.750	121	6.718	171	11.468	291	6.156	156
3	80	13	330	5.625	143	8.687	221	14.312	364	7.843	199
4	100	11.687	297	5.406	137	7.375	187	12.781	325	7.312	186
6	150	16.125	410	7.750	196	9.750	248	17.500	444	10.875	276
8	200	17.062	433	8.375	212	10.062	255	18.437	468	10.937	277
10	250	21.312	541	10.437	265	12.312	312	22.750	577	14.375	365
12	300	22.812	579	11.312	287	12.812	325	24.125	613	14.812	376

300D Spherical 3-WAY™ Tee

For **SHORTSTOPP®** Plugging Machines, Sizes 2- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.008.04

Date: April 2010

Cross Indexing No: n/a

Supersedes: 2100.008.03 (5/05)



■ **SHORTSTOPP® 300D Spherical 3-WAY™ Tee**
Sizes 2- and 3-inch



■ **SHORTSTOPP® 300D Spherical 3-WAY™ Tee**
Sizes 4- through 12-inch

Description

The **SHORTSTOPP® 300D Spherical 3-WAY™ Tee**, 4" and larger, is furnished with a flange, drilled, faced and pressure-rated to match ASME Class 300 flanges. They are used with TDW plugging machines to temporarily plug the line, without shutdown, while installing a permanent bypass. The bottom half of the fitting can be rotated for a side or a bottom outlet. The flange is machined to accept 300D Completion Plugs.

Quality control measures include inspection to ensure a proper fit on the pipeline, flange alignment verification, and radiographic weld inspection* to API Standard 1104.

*100% ultrasonic examination performed at TDW's Nivelles, Belgium plant.

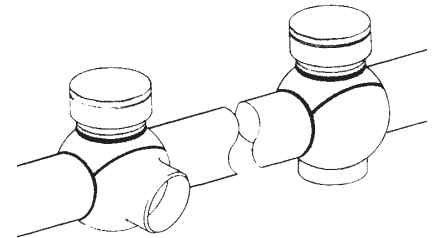
Features

All fittings are stamped with a code number for material identification. Material certificates are available.

The 4" and larger fitting is complete with blind flange, studs, nuts, gasket, O-ring, and completion plug. The 2" and 3" sizes are furnished with a threaded cap, completion plug, and O-ring. The bottom half of the tee can be turned for either a side or bottom outlet. The tee can also be installed horizontally.

With plugging equipment removed, the maximum pressure is 740 psig (49 bar) at 100°F (38°C). The maximum operating temperature is 180°F (82°C) at 675 psig (45 bar) per ASME B31.4. See charts on page 2 for MAOP per ASME B31.8.

Typical Applications

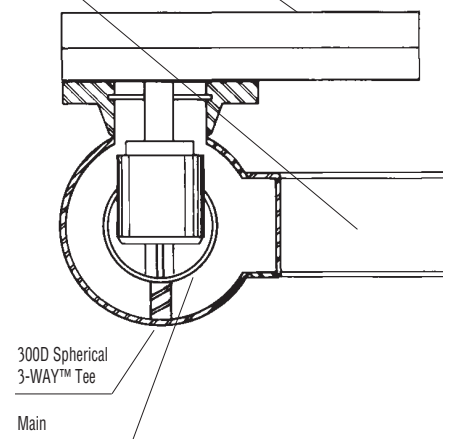


The bottom half of the tee can be turned for either a side or bottom outlet. The tee can also be installed horizontally.

*Use of **SHORTSTOPP® 275** Plugging Machines is not recommended in bottom outlet configuration.

Class 300 SANDWICH® Valve

Branch



300D Spherical 3-WAY™ Tee

Main

The side outlet plunger can be installed on the control bar of either the **SHORTSTOPP®** Plugging/Completion Machine or the **SHORTSTOPP®** Jackscrew Actuator, and is used on the Spherical 3-WAY™ Tee to plug the tapped hole in the main line. This stops flow into the side outlet, permitting maintenance work on the branch connection.

Maximum working pressure is 275 psi for the side outlet plunger.

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® 300D Spherical 3-WAY™ Tee



■ 2- & 3-inch

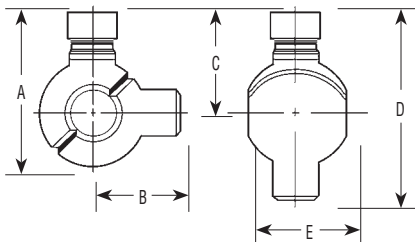
■ 4- through 12-inch

300D Spherical 3-WAY™ Tee Class 300

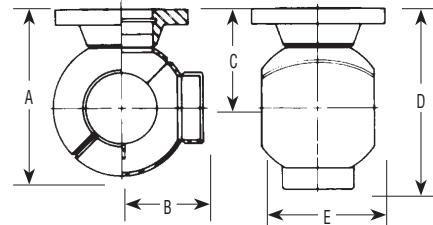
Maximum Allowable Operating Pressure in PSI, Per ASME B31.8 at -20 to +100° F

Size		Design Factor				Part Number	Weight	
Inches	DN	0.72	0.60	0.50	0.40		Lbs.	Kg.
2	50	740	740	740	740	26-0935-0000	17	18
3	80	740	740	740	740	26-0936-0000	23	11
4	100	740	740	740	740	26-0937-0000	80	36
6	150	740	740	659	527	06-7378-0000	156	70.8
8	200	740	684	570	456	06-7379-0000	248	112.5
10	250	740	690	575	460	26-1141-0000	364	165.1
12	300	740	630	525	420	26-1142-0000	502	227.7

The above fittings are complete with cap or blind flange, studs, nuts, gasket, O-ring, and plug.



Sizes 2" (50 mm) and 3" (80 mm)



Sizes 4" (100 mm), 6" (150 mm), 8" (200 mm), 10" (250 mm) and 12" (300 mm)

Dimensions

Size		A		B		C		D		E	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	10.47	266	4.75	121	7.16	182	11.71	302	5.84	148
3	80	13.38	340	5.63	143	9.06	230	14.69	373	7.53	191
4	100	11.28	287	5.41	137	6.97	177	12.38	314	6.91	175
6	150	15.63	397	7.75	197	9.25	235	17.00	432	10.50	267
8	200	16.88	429	8.31	211	9.88	251	18.19	462	10.56	268
10	250	20.84	529	10.41	264	11.84	301	22.25	565	13.88	352
12	300	22.84	580	11.28	287	12.84	326	24.13	613	14.81	376

Spare O-Rings

Size		Part Number
Inches	DN	
2	50	00-0117-0010
3	80	00-0117-0013
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

300D Completion Plugs* Class 300

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
2	50	07-1745-0000	0.2	0.1
3	80	07-1746-0000	2	1
4	100	07-0351-0000	2.5	1
6	150	07-1027-0000	10	5
8	200	07-1028-0000	20	9
10	250	07-1029-0000	31	14
12	300	07-1030-0000	44	20

*Plug setting pressure limited to pressure rating of completion machine.



SHORTSTOPP® 300D Spherical 3-WAY™ Tee - .5 Design Factor



■ 2- & 3-inch

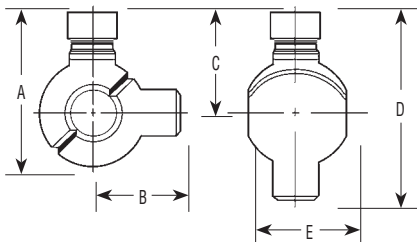
■ 4- through 12-inch

300D Spherical 3-WAY™ Tee Class 300

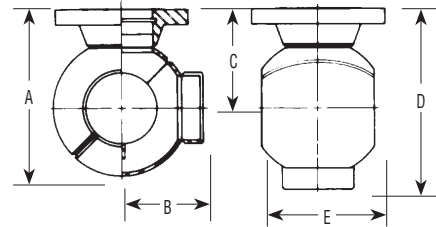
Maximum Allowable Operating Pressure in PSI, Per ASME B31.8 at -20 to +100° F

Size Inches	DN	Weight		Design Factor				Part Number
		Lbs.	Kg.	0.72	0.60	0.50	0.40	
2	50	17	8	740	740	740	740	26-0935-0000-00
3	80	23	10	740	740	740	740	26-0936-0000-00
4	100	80	36	740	740	740	675	26-2365-0000-00
6	150	160	73	740	740	740	605	26-2366-0000-SF
8	200	260	118	740	740	740	595	26-2367-0000-SF
10	250	380	173	740	740	740	605	26-2368-0000-SF
12	300	870	395	740	740	740	605	26-2369-0000-SF

SF: 00 is for standard weight pipe, 01 is for thin-wall pipe.



Sizes 2" (50 mm) and 3" (80 mm)



Sizes 4" (100 mm), 6" (150 mm), 8" (200 mm), 10" (250 mm) and 12" (300 mm)

Dimensions

Size		A		B		C		D		E	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
2	50	10.47	266	4.75	121	7.16	182	11.71	297	5.84	148
3	80	13.38	340	5.63	143	9.06	230	14.69	373	7.53	191
4	100	11.28	287	5.41	137	6.97	177	12.78	325	6.72	171
6	150	15.63	397	7.72	196	9.25	235	16.97	431	10.28	261
8	200	19.05	484	9.50	241	11.05	281	20.55	522	12.80	325
10	250	23.06	586	11.62	295	13.06	332	24.68	627	16.03	407
12	300	27.20	691	13.70	348	15.20	386	28.90	734	19.34	491

Spare O-Rings

Size		Part Number
Inches	DN	
2	50	00-0117-0010
3	80	00-0117-0013
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

300D Completion Plugs* Class 300

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
2	50	07-1745-0000-00	1	1
3	80	07-1746-0000-00	2	1
4	100	07-0351-0000-00	3	1
6	150	07-1027-0000-00	10	5
8	200	07-1853-0000-00	20	9
10	250	07-1854-0000-00	31	14
12	300	07-1855-0000-00	44	20

*Plug setting pressure limited to pressure rating of completion machine.



SHORTSTOPP® 740

Purge & Equalization Fitting, Size 2"



T.D. Williamson, Inc.

Bulletin No: 2100.009.00

Date: August 2000

Cross Indexing No: n/a

Supersedes: 000.0 (0/0/00)



■ Shortstopp® 740 Purge & Equalization Fitting
Size 2"

Description

The SHORTSTOPP® 740 Purge & Equalization Fitting is used with TDW SHORTSTOPP Machines. It can be installed during new construction and used for blowdown connections on either side of a block valve. The SHORTSTOPP 740 Purge & Equalization Fitting is available in a 2" size.

The fitting accepts corrosion test coupons, thermometer wells, gauge adapters and other instrument probes.

The 2" SHORTSTOPP 740 Purge & Equalization Fitting has a maximum operating pressure of 740 psi and a maximum operating temperature of 180°F (82°C).

Features

The complete SHORTSTOPP® 740 Purge & Equalization Fitting consists of: cap, plug, O-ring, and nipple.

The SHORTSTOPP 740 Purge & Equalization Fitting allows taps to be made without shutdown when using the TDW T-101 Drilling Machine or the 360 Tapping Machine.

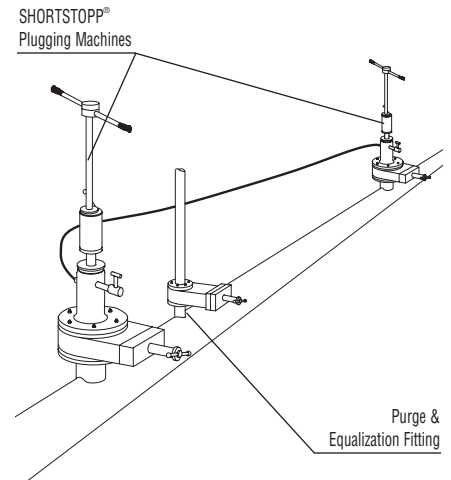
Plugs are set using either the T-101 Drilling Machine or the SHORTSTOPP 500 Completion Machine.

The SHORTSTOPP 740 Purge & Equalization Fitting can be used for instrumentation taps, as well as purge and equalization during plugging operations on pipelines and plant piping.

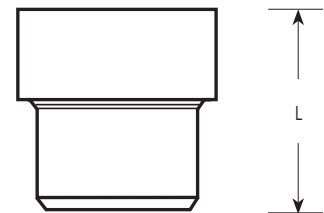
Cap: A105 Forged Steel
Plug: C1213 CF Steel

Nipple: A106 GR B SMLS Steel Pipe
O-Ring: Buna-N

■ Typical Setup Using SHORTSTOPP® Purge & Equalization Fitting



TDW SHORTSTOPP® Purge & Equalization Fittings are used for blowdown of the isolated pipe section following a double SHORTSTOPP® operation.



Dimensions

Size		Length		Part Number
Inches	DN	Inches	mm	
2	50	3-7/8	98	26-0541-0000

NOTE: For use on 8" and above pipe only.
Bevel required for higher pressure and full penetration weld.

ISO 9001 Certified

Toll Free (U.S.A.)

1-888-TDWmSon (839-6766)



SHORTSTOPP® Bolt-On Fittings

Sizes: 2- through 12-inches



T.D. Williamson, Inc.

Bulletin No: 2100.010.01

Date: June 2004

Cross Indexing No: n/a

Supersedes: May 2002

■ Branch Type II Plugging Fitting
4 x 3- inch Top Seal Shown



Description

Plugging Fittings are designed for use with the TDW Tapping and SHORTSTOPP® Plugging Machine systems. They are used for main relocations, equipment tie-ins, lateral connections, line extensions and for making crossovers, and repairs, with temporary or permanent bypass and without shutdown.

Plugging fittings are available in sizes 2- through 12-inches. The 2- and 3-inch sizes have threaded equipment connections. The design of the 4- through 12-inch Type IIA Plugging Fitting requires a reusable bolt-on flange adapter, which adapts the fitting to TDW SHORTCUTT® and SHORTSTOPP Valves. Sizes 14-inches and larger are available.

Fittings come complete including the top half, bottom half, bolts, nuts, O-ring seals, gaskets, completion plug and blind flange or cap.

Features

TDW's Bolt-On fittings can be used on a variety of pipe materials including steel, ductile iron and cast iron. They have a broad range of nominal pipe sizes and can allow for broad variances in actual outside diameters of pipe.

All fittings are designed to ASME B 31.8 standards. The maximum working pressure is 60 psig (4 bar) at 150°F (51°C).

The 2- and 3-inch Branch bodies are made from ASTM A-106 Grade B steel pipe. The 4- through 12-inch Branch fittings are either fabricated from ASTM A-105 and/or ASTM A-106 Grade B steel pipe. Sleeve body materials are ASTM A285 Grade C. Stud and nut materials come in ASTM B7 Studs or ASTM A304 Stainless Steel. The body-to-main O-Ring seal is 55 to 60 durometer Buna-N.

Options

Plugging Fittings can be supplied in a Top Seal or Circumferential End Seal designs for the fitting-to-main attachment.

Top Seal Fittings can be supplied with a CSP package or an ESS package. The standard CSP package includes carbon steel hardware and primer coating. The ESS corrosion resistant package includes stainless steel hardware, Fusion Bonded Epoxy coating and an elastomer insulator.

Tapping Sleeves are available in a full range of sizes from 2- through 24-inches.

Note: Due to the broad range of cast iron pipe ODs and IDs in service, it is necessary to verify dimensions and consult the factory in advance of a fitting purchase to insure compatibility.



■ 4- to 12-inch Branch
Type II Plugging Fittings
(Top Seal Shown)

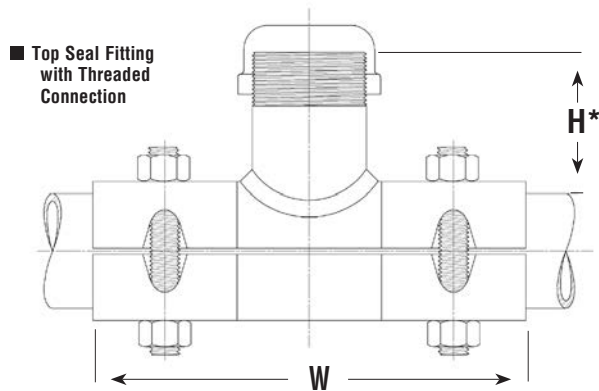
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



Top Seal Fittings (Sizes in Inches)



*Height does not include bund flange or cap

Size	Height	Width	Weight		Part Number
			Wt./ Lbs.	Wt./Kg.	
2	5.188	6.00	12	5	MX 0202 XXXX XX ¹
3 x 2	2.437	12.00	14	6	MX 0302 XXXX XX
3	3.25	12.00	15	7	MX 0303 XXXX XX
4 x 2	2.437	12.00	23	10	MX 0402 XXXX XX
4 x 3	3.25	12.00	24	11	MX 0403 XXXX XX
4	4.00	12.00	39	18	MX 0404 XXXX XX
6 x 2	2.437	12.00	32	15	MX 0602 XXXX XX
6 x 3	3.25	12.00	33	15	MX 0603 XXXX XX
6 x 4	4.00	12.00	48	22	MX 0604 XXXX XX
6	4.75	12.00	70	32	MX 0606 XXXX XX
8 x 2	2.437	12.00	105	48	MX 0802 XXXX XX
8 x 3	3.35	12.00	106	48	MX 0803 XXXX XX
8 x 4	4.00	12.00	121	55	MX 0804 XXXX XX
8 x 6	4.75	12.00	143	65	MX 0806 XXXX XX
8	4.75	15.00	167	76	MX 0808 XXXX XX
10 x 2	2.437	15.00	145	66	MX 1002 XXXX XX
10 x 3	3.25	15.00	146	66	MX 1003 XXXX XX
10 x 4	4.00	15.00	161	73	MX 1004 XXXX XX
10 x 6	4.75	15.00	183	83	MX 1006 XXXX XX
10 x 8	4.75	15.00	207	94	MX 1008 XXXX XX
10	5.25	21.00	263	120	MX 1010 XXXX XX
12 x 2	2.437	15.00	178	81	MX 1202 XXXX XX
12 x 3	3.25	15.00	179	81	MX 1203 XXXX XX
12 x 4	4.00	15.00	194	88	MX 1204 XXXX XX
12 x 6	4.75	15.00	216	98	MX 1206 XXXX XX
12 x 8	4.75	15.00	240	109	MX 1208 XXXX XX
12 x 10	4.25	24.00	296	135	MX 1210 XXXX XX
12	5.25	24.00	341	155	MX 1212 XXXX XX

¹ 2-inch size is cast iron body with screw-in type outlet.

Note: Consult factory for sizes not shown

Legend of Top Seal Fitting Part Numbers

MA	Top Seal -- Type IIA Flange
MB	Top Seal -- Type IIA Flange (3-WAY Tee)
MC	Top Seal -- RFWN Flange
MD	Top Seal -- Type I SHORTSTOPP Flange
ME	Top Seal -- Cam Flange
-XXXX ¹	Next 4 characters represent run size branch size
-XXXX ²	Next 4 characters are pipe OD inches
-XX ³	³ 00 Primer Coating, Carbon Steel Hardware
	³ 01 Epoxy Coating, Stainless Steel Hardware

¹Example: 0806 = 8 inch run, 6 inch branch - ²Example: 1075 = 10-3/4 inches

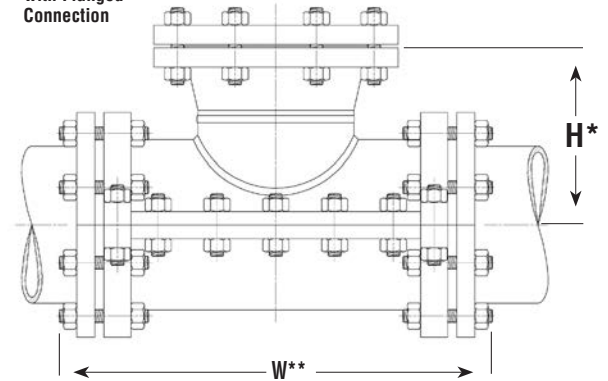


End Seal Fittings (Sizes in Inches)

Size	Height	Weight		Part Number
		Lbs.	Kg.	
2	5.188	67	30	MX 0202 XXXX XX ¹
3 x 2	2.895	90	41	MX 0302 XXXX XX
3	3.695	109	50	MX 0303 XXXX XX
4 x 2	2.895	113	51	MX 0402 XXXX XX
4 x 3	3.695	128	58	MX 0403 XXXX XX
4	4.435	158	72	MX 0404 XXXX XX
6 x 2	2.895	151	69	MX 0602 XXXX XX
6 x 3	3.695	170	77	MX 0603 XXXX XX
6 x 4	4.435	202	92	MX 0604 XXXX XX
6	5.185	227	103	MX 0606 XXXX XX
8 x 2	2.895	183	83	MX 0802 XXXX XX
8 x 3	3.695	205	93	MX 0803 XXXX XX
8 x 4	4.435	240	109	MX 0804 XXXX XX
8 x 6	5.185	265	120	MX 0806 XXXX XX
8	5.185	318	145	MX 0808 XXXX XX
10 x 2	2.895	200	91	MX 1002 XXXX XX
10 x 3	3.695	224	102	MX 1003 XXXX XX
10 x 4	4.435	262	119	MX 1004 XXXX XX
10 x 6	5.185	287	130	MX 1006 XXXX XX
10 x 8	5.185	343	156	MX 1008 XXXX XX
10	5.315	405	184	MX 1010 XXXX XX
12 x 2	2.895	245	111	MX 1202 XXXX XX
12 x 3	3.695	270	123	MX 1203 XXXX XX
12 x 4	4.435	309	140	MX 1204 XXXX XX
12 x 6	5.185	334	152	MX 1206 XXXX XX
12 x 8	5.185	291	132	MX 1208 XXXX XX
12 x 10	5.315	453	206	MX 1210 XXXX XX
12	5.815	553	251	MX 1212 XXXX XX

¹ 2-inch size is cast iron body with screw in type outlet

■ End Seal Fitting with Flanged Connection



*Height does not include bund flange or cap
**For overall width consult factory

Legend of Part Numbers

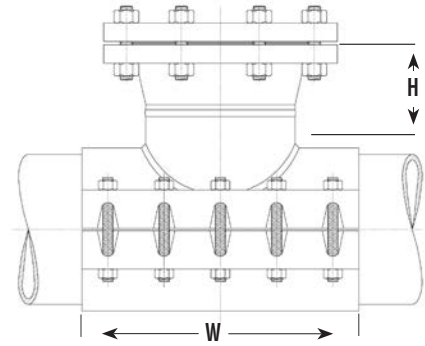
MF	End Seal -- Type IIA Flange
MG	End Seal -- Type IIA Flange (3-WAY Tee)
MH	End Seal -- RFWN Flange
MI	End Seal -- Type I SHORTSTOPP Flange
MJ	End Seal -- Cam Flange
-XXXX*	Next 4 characters represent run size branch size
-XXXX**	Next 4 characters are pipe OD inches
-XX	00 Primer Coating, Carbon Steel Hardware 01 Epoxy Coating, Stainless Steel Hardware

*Example: 0806 = 8 inch run, 6 inch branch - **Example: 1075 = 10-3/4 inches



Spare Completion Plug O-Rings and Blind Flange Gaskets

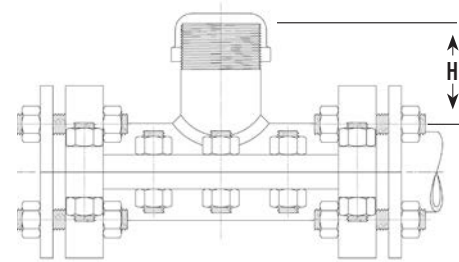
Nominal Size		O-Ring	Gasket
Inches	D/N	Part Number	Part Number
1-1/4	32	00-0117-0014	
1-1/2	38	00-0117-0010	
2	50	00-0117-0010	
3	80	00-0117-0013	
4	100	00-1250-0001	00-5238-0004
6	150	00-1250-0002	00-5238-0006
8	200	00-1250-0003	00-5238-0008
10	250	00-1250-0004	00-5238-0010
12	300	00-1250-0005	00-5238-0012
3 x 4	80 x 100	00-0117-0013	
4 x 6	100 x 150	00-1250-0001	00-5238-0004
6 x 8	150 x 200	00-1250-0002	00-5238-0006
8 x 10	200 x 250	00-1250-0003	00-5238-0008
8 x 12	200 x 300	00-1250-0003	00-5238-0008



■ Top Seal Fitting with Flanged Connection

Valve-to-Fitting Adapters for 4- through 12-inches

Nominal Size		Wt./ Lb.	Wt./Kg.	Part Number
Inches	D/N			
4	100	10	5	06-5724-0001
6	150	13	6	06-5724-0002
8	200	14	11	06-5724-0003
10	250	40	18	06-5724-0010
12	300	55	25	06-5724-0011
4 x 6	100 x 150	18	8	06-5724-0007
6 x 8	150 x 200	28-1/2	13	06-5724-0004
10 x 12	250 x 300	70	32	06-5724-0012



■ End Seal Fitting with Threaded Connection



SHORTSTOPP® Bolt-On 3-WAY™ Tee

Sizes: 2- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.011.01

Date: June 2003

Cross Indexing No: n/a

Supersedes: 2100.000.00

■ 2- to 3-inch 3-WAY™ Tee
(Top Seal Shown)



Description

TDW's Bolt-On 3-WAY™ Tee is designed for use with TDW Tapping and SHORTSTOPP® Plugging Machine Systems. It is used for main relocations, equipment tie-ins, lateral connections, line extensions, crossovers, temporary or permanent bypass, eliminating the need for a valve on the connection and making repairs, all without shutdown.

Fittings are available in sizes 2- through 12-inches. The 2- and 3-inch sizes have threaded equipment connections. The design of the 4- through 12-inch Type IIA 3-WAY Tee requires a reusable bolt-on flange adapter, which adapts the tee to TDW SHORTCUTT® and SHORTSTOPP Valves. Sizes 14-inches and larger are available.

These tees come complete including the top half, bottom half, bolts, nuts, O-ring seals, gaskets, completion plug and blind flange or cap.

Features

TDW's Bolt-On Top Seal and End Seal tees can be used on a variety of pipe materials including steel, ductile iron and cast iron. They have a broad range of nominal pipe sizes and can allow for broad variances in actual outside diameters.

All tees are designed to ASME B31.8 standards. The maximum working pressure of the fitting is 60 psig (4 bar) at 150°F (51°C).

The 2-inch tee bodies are forged ASTM A-105 carbon steel. Size 3-inch tees are ASTM A-234 Grade WPB steel. Sizes 4- through 12-inch tees are either fabricated from ASTM A-106 Grade B or ASTM-A-234 Grade WPB steel. Sleeve body materials are ASTM A285 Grade C. Stud and nut materials come in ASTM A B7 Studs or ASTM A304 Stainless Steel studs and nuts. The body-to-main seal is 55 to 60 durometer Buna-N.

To isolate flow or pressure into connecting lines, the side outlet of the tee can be plugged with TDW SHORTSTOPP Plugging Machine equipment at pressures up to 60 psig.

Options

Tees can be supplied with steel-to-medium- or high-density polyethylene transition fittings welded on the outlets from the factory.

Tees can be supplied in a Top Seal or Circumferential End Seal designs for the fitting-to-main attachment.

Top Seal Tees can be supplied with a CSP package or an ESS package. The standard CSP package includes carbon steel hardware and primer coating. The ESS corrosion resistant package includes stainless steel hardware, Fusion Bonded Epoxy coating and an elastomer insulator.

All fittings can be supplied with either primer coating or Fusion Bonded Epoxy coating.

Tapping Sleeves are available in a full range of sizes from 2- through 24-inches.

Note: Due to the broad range of cast iron pipe ODs and IDs in service, it is necessary to verify dimensions and consult the factory in advance of a fitting purchase to insure compatibility.

■ Branch Type II 3-WAY™ Tee
4- to 12 inch
(Top Seal Shown)



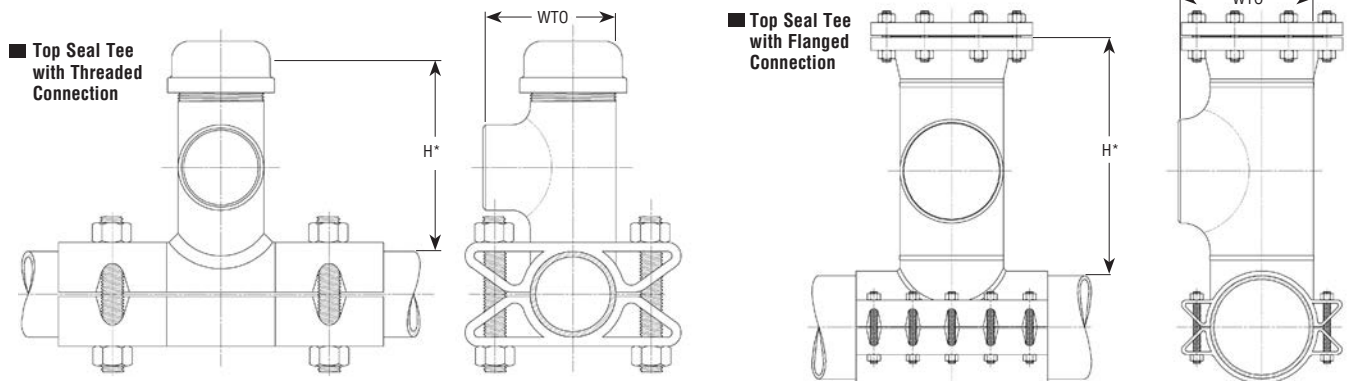
ISO 9001 Certified

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1-888-TDWmSon (839-6766)

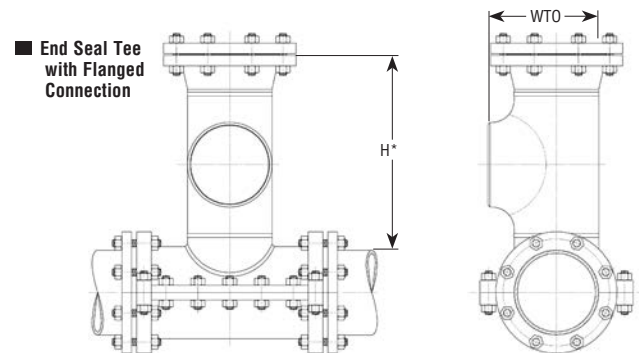
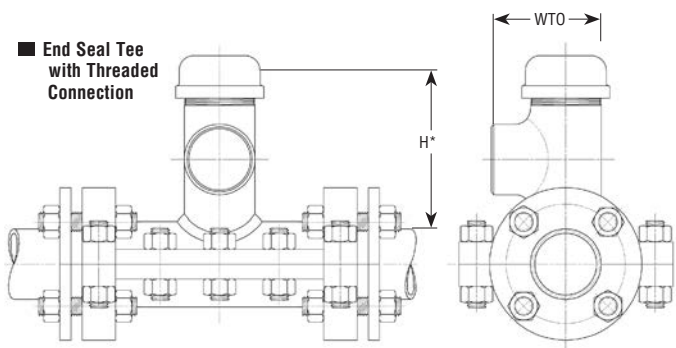
Top Seal 3-WAY™ Tees (Sizes in Inches)

Nominal Size	Height (H*)	Width	Width to Outlet (WTO)	Wt./Lb.	Wt./Kg.	Part Number
2	5.02		3.25	16	7	MX 0202 XXXX XX
3 x 2	5.00	12.00	3.25	18	8	MX 0302 XXXX XX
3	7.00	12.00	4.78	23	10	MX 0303 XXXX XX
4 x 2	5.00	12.00	3.25	54	25	MX 0402 XXXX XX
4 x 3	7.00	12.00	4.78	32	15	MX 0403 XXXX XX
4	9.44	12.00	6.14	71	32	MX 0404 XXXX XX
6 x 2	5.00	12.00	3.25	36	16	MX 0602 XXXX XX
6 x 3	7.00	12.00	4.78	41	19	MX 0603 XXXX XX
6 x 4	9.44	12.00	6.14	63	29	MX 0604 XXXX XX
6	12.75	12.00	8.78	80	36	MX 0606 XXXX XX
8 x 2	5.00	12.00	3.25	109	50	MX 0802 XXXX XX
8 x 3	7.00	12.00	4.78	114	52	MX 0803 XXXX XX
8 x 4	9.44	12.00	6.14	136	62	MX 0804 XXXX XX
8 x 6	12.75	12.00	8.78	153	70	MX 0806 XXXX XX
8	14.00	15.00	10.84	228	104	MX 0808 XXXX XX
10 x 2	5.00	15.00	3.25	149	68	MX 1002 XXXX XX
10 x 3	7.00	15.00	4.78	154	70	MX 1003 XXXX XX
10 x 4	9.44	15.00	6.14	176	80	MX 1004 XXXX XX
10 x 6	12.75	15.00	8.78	193	88	MX 1006 XXXX XX
10 x 8	14.00	15.00	10.84	268	122	MX 1008 XXXX XX
10	17.13	21.00	14.88	323	147	MX 1010 XXXX XX
12 x 2	5.00	15.00	3.25	182	83	MX 1202 XXXX XX
12 x 3	7.00	15.00	4.78	187	85	MX 1203 XXXX XX
12 x 4	9.44	15.00	6.14	209	95	MX 1204 XXXX XX
12 x 6	12.75	15.00	8.78	226	103	MX 1206 XXXX XX
12 x 8	14.00	15.00	10.84	301	137	MX 1208 XXXX XX
12 x 10	17.13	24.00	14.88	356	162	MX 1210 XXXX XX
12	18.75	24.00	15.88	449	204	MX 1212 XXXX XX



End Seal 3-WAY™ Tees (Sizes in Inches)

Nominal Size	Height	Width	Width to Outlet	Wt./ Lb.	Wt./Kg.	Part Number
2	5.395	Consult Factory	3.25	71	32	MX 0202 XXXX XX
3 x 2	5.375	Consult Factory	3.25	94	43	MX 0302 XXXX XX
3	7.375	Consult Factory	4.78	117	53	MX 0303 XXXX XX
4 x 2	5.375	Consult Factory	3.25	117	53	MX 0402 XXXX XX
4 x 3	7.375	Consult Factory	4.78	136	62	MX 0403 XXXX XX
4	9.813	Consult Factory	6.14	190	86	MX 0404 XXXX XX
6 x 2	5.375	Consult Factory	3.25	155	70	MX 0602 XXXX XX
6 x 3	7.375	Consult Factory	4.78	178	81	MX 0603 XXXX XX
6 x 4	9.813	Consult Factory	6.14	190	86	MX 0604 XXXX XX
6	13.125	Consult Factory	8.78	237	108	MX 0606 XXXX XX
8 x 2	5.375	Consult Factory	3.25	187	85	MX 0802 XXXX XX
8 x 3	7.375	Consult Factory	4.78	213	97	MX 0803 XXXX XX
8 x 4	9.813	Consult Factory	6.14	255	116	MX 0804 XXXX XX
8 x 6	13.125	Consult Factory	8.78	275	125	MX 0806 XXXX XX
8	14.375	Consult Factory	10.84	379	172	MX 0808 XXXX XX
10 x 2	5.375	Consult Factory	3.25	204	93	MX 1002 XXXX XX
10 x 3	7.375	Consult Factory	4.78	232	105	MX 0303 XXXX XX
10 x 4	9.813	Consult Factory	6.14	277	126	MX 1004 XXXX XX
10 x 6	13.125	Consult Factory	8.78	297	135	MX 1006 XXXX XX
10 x 8	14.375	Consult Factory	10.84	404	184	MX 1008 XXXX XX
10	17.500	Consult Factory	14.88	465	211	MX 1010 XXXX XX
12 x 2	5.375	Consult Factory	3.25	249	113	MX 1202 XXXX XX
12 x 3	7.375	Consult Factory	4.78	278	126	MX 1203 XXXX XX
12 x 4	9.813	Consult Factory	6.14	324	147	MX 1204 XXXX XX
12 x 6	13.125	Consult Factory	8.78	344	156	MX 1206 XXXX XX
12 x 8	14.375	Consult Factory	10.84	352	160	MX 1208 XXXX XX
12 x 10	17.505	Consult Factory	14.88	513	233	MX 1210 XXXX XX
12	19.125	Consult Factory	15.88	661	300	MX 1212 XXXX XX





Legend of Part Numbers

MA	Top Seal -- Type IIA Flange
MB	Top Seal -- Type IIA Flange (3-WAY Tee)
MC	Top Seal -- RFWN Flange
MD	Top Seal -- Type I SHORTSTOPP Flange
ME	Top Seal -- Cam Flange
MF	End Seal -- Type IIA Flange
MG	End Seal -- Type IIA Flange (3-WAY Tee)
MH	End Seal -- RFWN Flange
MI	End Seal -- Type I SHORTSTOPP Flange
MJ	End Seal -- Cam Flange
-XXXX	Next 4 characters represent run size & branch size
-XXXX	Pipe OD inches and two place decimal
-XX	Suffix number shown below

Legend of Suffix Meanings

00	Primer Coating, Carbon Steel Hardware, Thin Wall Outlet
01	Epoxy Coating, Stainless Steel Hardware, Thin Wall Outlet
02	Primer Coating, Carbon Steel Hardware, PVC Ready, Thin Wall Outlet
03	Epoxy Coating, Stainless Steel Hardware, PVC Ready, Thin Wall Outlet
04	Primer Coating, Carbon Steel Hardware, UPONOR 2406 Transition
05	Primer Coating, Stainless Steel Hardware, UPONOR 3408 Transition
06	Epoxy Coating, Stainless Steel Hardware, UPONOR 2406 Transition
07	Epoxy Coating, Stainless Steel Hardware, UPONOR 3408 Transition
08	Primer Coating, Carbon Steel Hardware, UPONOR 2406 Transition, PVC ready
09	Primer Coating, Carbon Steel Hardware, UPONOR 3408 Transition, PVC ready
10	Epoxy Coating, Stainless Steel Hardware, UPONOR 2406 Transition, PVC ready
11	Epoxy Coating, Stainless Steel Hardware, UPONOR 3408 Transition, PVC ready
12	Primer Coating, Carbon Steel Hardware, CENTRAL 2406 Transition
13	Primer Coating, Carbon Steel Hardware, CENTRAL 3408 Transition
14	Epoxy Coating, Stainless Steel Hardware, CENTRAL 2406 Transition
15	Epoxy Coating, Stainless Steel Hardware, CENTRAL 3408 Transition
16	Primer Coating, Carbon Steel Hardware, CENTRAL 2406 Transition, PVC ready
17	Primer Coating, Carbon Steel Hardware, CENTRAL 3408 Transition, PVC ready
18	Epoxy Coating, Stainless Steel Hardware, CENTRAL 2406 Transition, PVC ready
19	Epoxy Coating, Stainless Steel Hardware, CENTRAL 3408 Transition, PVC ready
20	Primer Coating, Carbon Steel Hardware, Sch. 40 x 12-inch Transition by JCM
21	Epoxy Coating, Stainless Steel Hardware, Sch. 40 x 12-inch Transition by JCM

Valve-to-Fitting Adapters for 4- through 12-inches

Nominal Size	D/N	Wt./ Lb.	Wt./Kg.	Part Number
Inches				
4	100	10	5	06-5724-0001
6	150	13	6	06-5724-0002
8	200	14	11	06-5724-0003
10	250	40	18	06-5724-0010
12	300	55	25	06-5724-0011
4 x 6	100 x 150	18	8	06-5724-0007
6 x 8	150 x 200	28-1/2	13	06-5724-0004
10 x 12	250 x 300	70	32	06-5724-0012

Spare Completion Plug O-Rings & Blind Flange Gaskets

Nominal Size	D/N	O-Ring Part Number	Gasket Part Number
Inches			
1-1/4	32	00-0117-0014	
1-1/2	38	00-0117-0010	
2	50	00-0117-0010	
3	80	00-0117-0013	
4	100	00-1250-0001	00-5238-0004
6	150	00-1250-0002	00-5238-0006
8	200	00-1250-0003	00-5238-0008
10	250	00-1250-0004	00-5238-0010
12	300	00-1250-0005	00-5238-0012
3 x 4	80 x 100	00-0117-0013	
4 x 6	100 x 150	00-1250-0001	00-5238-0004
6 x 8	150 x 200	00-1250-0002	00-5238-0006
8 x 10	200 x 250	00-1250-0003	00-5238-0008
8 x 12	200 x 300	00-1250-0003	00-5238-0008



SHORTSTOPP® 3-WAY™ Tee

and SHORTPLUG™ with Guide Bars, Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.012.02

Date: December 2004

Cross Indexing No: n/a

Supersedes: October 2004



■ **Flanged 3-WAY™ Tee Fitting**
and SHORTPLUG™ with Guide Bars
Sizes: 4- through 12-inch

Description

TDW's 3-WAY™ Tees and SHORTPLUG™ with Guide Bars are designed for use with the TDW SHORTSTOPP® Plugging Machine Systems. It is used for main relocations, equipment tie-ins, lateral connections, line extensions and for making crossovers, all without shutdown.

The design of the 4- (DN 100) through 12-inch (DN 300) Type IIA 3-WAY Tee requires a reusable bolt-on flange adapter which adapts the tee to TDW SHORTCUTT® and SHORTSTOPP Valves.

SHORTSTOPP Welding Fittings and SHORTPLUGS with Guide bars are offered standard in the size-on-size configuration. Consult factory for applications other than size-on-size.

Features

When used with SHORTSTOPP Plugging Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

All fittings are compatible with most ASME Class 150 applications. With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100°F (38°C) or 245 psi (17 bar) at 180°F (82°C) per ASME B31.4. See chart on page 2 for MAOP per ASME B31.8.

Sizes 4- through 12-inch (DN 100 - 300) tees are either fabricated from ASTM A-106 Grade B or ASTM A-234 Grade WPB steel.

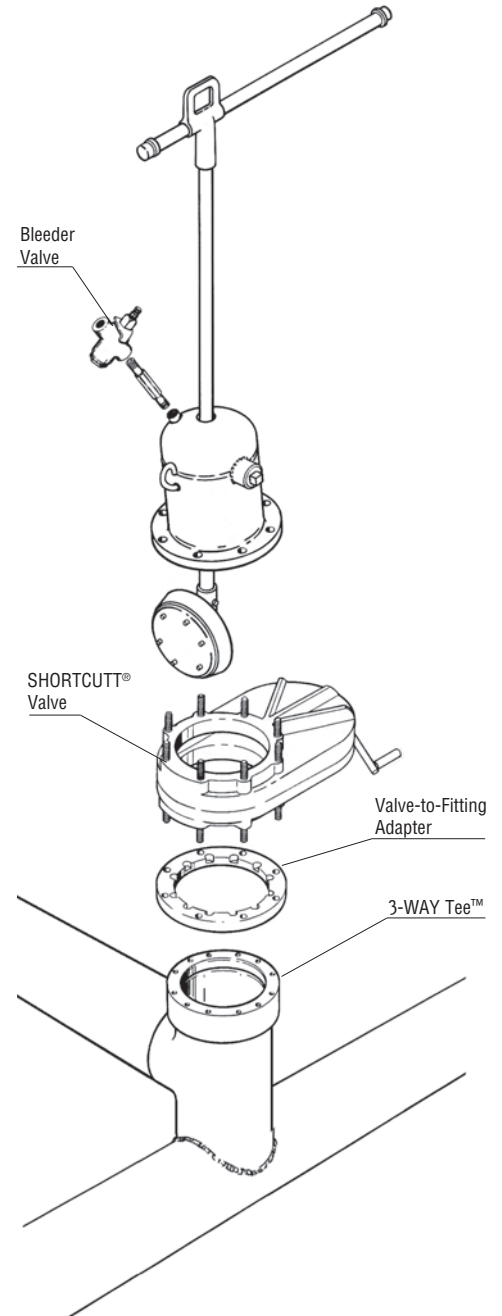
ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

■ Typical Setup

Sizes: 4- through 12-inch (100mm-300mm)





SHORTSTOPP® 3-WAY™ Tee and SHORTPLUG™ with Guide Bars

3-WAY™ Tee for SHORTSTOPP® II, SHORTSTOPP® 60 and SHORTSTOPP® 275

The 3-WAY Tee 4- through 12-inch includes: cover flange with gasket, bolts and plastic caplugs, SHORTPLUG™ with Guide Bars, O-Ring and tee.

Size Inches	DN	Weight		Maximum allowable operating pressure (in psi) per ASME B31.8 at -20 to +100° F Design Factor				Part Number
		Lbs.	Kg.	0.72	0.60	0.50	0.40	
4	100	40	18	285	285	285	285	26-1535-0402-31
6	150	60	27	285	285	285	285	26-1535-0602-31
8	200	105	48	285	285	285	285	26-1535-0802-31
10	250	175	79	285	285	285	225	26-1535-1002-31
12	300	240	109	285	265	220	175	26-1535-1202-31

Minimum Pipe Wall Thickness (Inches)

Size Inches	Header Pipe OD	Design Factor Min. Pipe Wall Thickness			
		.072	0.60	0.50	0.40
4	4.500	0.051	0.061	0.073	0.092
6	6.625	0.075	0.090	0.108	0.135
8	8.625	0.098	0.177	0.140	0.176
10	10.750	0.122	0.146	0.175	0.219
12	12.750	0.144	0.173	0.208	0.260

Note: The TDW fitting provides sufficient material thickness for itself and in many cases reinforcement for the branch opening in the pipe. However, the chart above specifies minimum wall thickness of the pipe for self reinforcement. (Based on 35,000 PSI SMYS)

Spare O-Rings & Gaskets

Inches	Size DN	Spare O-Rings Part Number	Spare Gaskets Part Number
6	150	00-1250-0002	00-5238-0006-01
8	200	00-1250-0003	00-5238-0008-01
10	250	00-1250-0004	00-5238-0010-01
12	300	00-1250-0005	00-5238-0012-01

SHORTSTOPP® 3-WAY™ Tee and SHORTPLUG™ with Guide Bars

Valve-to-Fitting Adapters for 4- through 12-inch

The 4- x 6-, 6- x 8- and 10- x 12-inch adapters are used to adapt the valve to the next size smaller fittings.

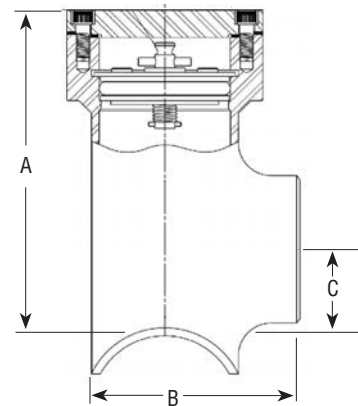
Inches	DN	Lbs.	Kg.	Part Number
4	100	10	5	06-5724-0001-00
6	150	13	6	06-5724-0002-00
8	200	25	11	06-5724-0003-00
10	250	40	18	06-5724-0010-00
12	300	55	25	06-5724-0011-00
4 x 6	100 x 150	18	8	06-5724-0007-00
6 x 8	150 x 200	28.5	13	06-5724-0004-00
10 x 12	250 x 300	70	32	06-5724-0012-00

Dimensions

Size	A		B		C	
	Inches	DN	Inches	mm	Inches	mm
4	9-13/16	100	6-3/4	171	2-9/16	65
6	13-5/16	150	8-13/16	224	3-9/16	91
8	14-13/16	200	10-3/4	273	3-7/8	98
10	19	250	14-7/8	378	6-3/8	162
12	21-1/2	300	17-3/8	441	7-3/8	187



■ Valve-to-Fitting Adapter



■ Sizes: 4- through 12-inch



SHORTSTOPP® 3-WAY™ Tee and SHORTPLUG™ with Guide Bars

4-inch Spool Adapter, 06-1165-0176-00 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0100-0001	Yes
SHORTSTOPP® II	08-3347-0000	Yes
SHORTSTOPP® II	08-3352-0000	Yes
SHORTSTOPP® 275	06-1542-0000	Yes
SHORTSTOPP® 275	08-0941-0000	Yes
SHORTSTOPP® 275	08-1748-0000	Yes

6-inch Spool Adapter, 06-1165-0177-00 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0971-0001	Yes
SHORTSTOPP® II	08-3348-0000	Yes
SHORTSTOPP® II	08-3353-0000	Yes
SHORTSTOPP® 275	06-1543-0000	Yes
SHORTSTOPP® 275	08-0942-0000	Yes*

* To set the SHORTPLUG™ with Guides Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

8-inch Spool Adapter, 06-1165-0178-00 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0102-0001	Yes
SHORTSTOPP® II	08-3349-0000	Yes
SHORTSTOPP® II	08-3350-0000	Yes
SHORTSTOPP® 275	06-1544-0000	Yes
SHORTSTOPP® 275	08-0943-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required

to set the 10-inch SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	Yes
SHORTSTOPP® II	08-3351-0000	Yes
SHORTSTOPP® 275	06-1546-0000	Yes*
SHORTSTOPP® 275	08-0945-0000	No

* To set the SHORTPLUG™ with Guides Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

12-inch Spool Adapter, 06-1165-0180-00 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	Yes
SHORTSTOPP® II	08-3351-0000	Yes
SHORTSTOPP® 275	06-1546-0000	Yes*
SHORTSTOPP® 275	08-0945-0000	No

* To set the SHORTPLUG™ with Guide Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.



SHORTSTOPP® Welding Fittings

and SHORTPLUG™ with Guide Bars, Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.013.01

Date: October 2004

Cross Indexing No: n/a

Supersedes: June 2004



■ **SHORTSTOPP® Welding Fittings**
and **SHORTPLUG™** with Guide Bars
Sizes: 4- through 12-inch

Description

SHORTSTOPP® Welding Fittings and SHORTPLUG™ with Guide Bars are designed for use with TDW SHORTSTOPP Plugging Machine systems. They are used for main relocations, equipment tie-ins, lateral connections, line extensions, crossovers, and purge and equalization – all without temporary bypass or shutdown.

The design of the 4- through 12-inch (DN 100 - DN 300) Type IIA Welding Fitting requires a reusable bolt-on flange adapter for TDW SHORTCUTT® and SHORTSTOPP Valves.

SHORTSTOPP Welding Fittings and SHORTPLUG with Guide Bars are offered standard in the size-on-size configuration. Consult factory for applications other than size-on-size.

Features

When used with SHORTSTOPP Plugging Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100°F (38°C) or 245 psi (17 bar) at 180°F (82°C) per ASME B31.4. See chart on page 3 for MOAP per ASME B31.8.

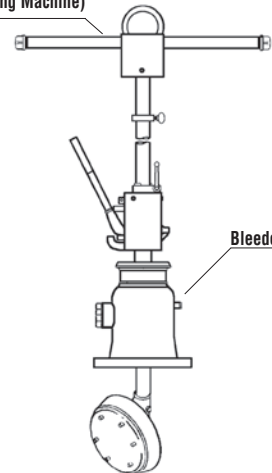
4- through 12-inch

Nipple: A106 GR B SMLS Steel Pipe
O-Ring: Buna-N

■ Typical SHORTSTOPP® Setup

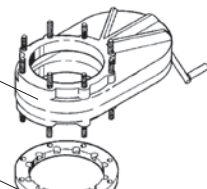
4- through 12-inch (100 mm - 300 mm)

SHORTSTOPP® II
Plugging Machine
(or Tapping Machine)



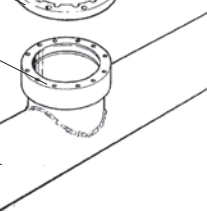
Bleeder Valve

SHORTCUTT®
Valve



Reusable
Valve-to-Fitting
Adapter

SHORTSTOPP®
Welding Fitting



Pipeline

The design of the 4- through 12-inch (100 mm - 300 mm) Type IIA Welding Fitting requires a reusable bolt-on flange adapter which adapts the fitting to TDW SHORTCUTT® Valves.

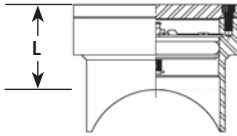
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SHORTSTOPP® Welding Fittings and SHORTPLUG™ with Guide Bars



■ 4- through 12-inch



■ 4- through 12-inch
Welding fitting includes cover flanges with bolts, gasket and plastic caplugs, SHORTPLUG™ with Guide Bars, O-ring and flanged nipple.

Dimensions

Inches	Size		mm
	DN	L	
4	100	4-3/8	111
6	150	5-3/16	132
8	200	5-5/16	135
10	250	6	152
12	300	6	152

Valve-to-Fitting Adapters for 4- through 12-inch

Inches	Size		Weight		Part Number
	DN	L	Lbs.	Kg.	
4	100	4-3/8	10	5	06-5724-0001-00
6	150	5-3/16	13	6	06-5724-0002-00
8	200	5-5/16	25	11	06-5724-0003-00
10	250	6	40	18	06-5724-0010-00
12	300	6	55	25	06-5724-0011-00
4 x 6	100 x 150	4-3/8	18	8	06-5724-0007-00
6 x 8	150 x 200	5-3/16	28-1/2	13	06-5724-0004-00
8 x 10	200 x 250	6	44	20	06-5724-0009-00
10 x 12	250 x 300	6	70	32	06-5724-0012-00

The 4- x 6-, 6- x 8-, 8- x 10- and 10- x 12-inch adapters are used to adapt the valve to the next smaller fittings.



SHORTSTOPP® Welding Fittings and SHORTPLUG™ with Guide Bars

SHORTSTOPP® Welding Fittings for Use with SHORTSTOPP® 60, SHORTSTOPP® II and SHORTSTOPP® 275 Plugging Machines

Size		Weight		Part Number	Maximum allowable operating pressure (in psi) per ASME B31.8 at -20 to +100° F			
Inches	DN	Lbs.	Kg.		Design Factor			
					0.72	0.6	0.5	0.4
4	100	20	9	26-1535-0402-11	285	285	285	285
6	150	45	20	26-1535-0602-11	285	285	285	285
8	200	75	34	26-1535-0802-11	285	285	285	275
10	250	115	52	26-1535-1002-11	285	285	285	240
12	300	140	64	26-1535-1202-11	285	285	275	220

Minimum Pipe Wall Thicknesses (Inches)

Size Inches	Header Pipe OD	Design Factor Min. Pipe Wall Thickness			
		0.72	0.60	0.50	0.40
4	4.500	0.051	0.061	0.073	0.092
6	6.625	0.075	0.090	0.108	0.135
8	8.625	0.098	0.177	0.140	0.176
10	10.750	0.122	0.146	0.175	0.219
12	12.750	0.144	0.173	0.208	0.260

Spare O-Rings & Gaskets

Size Inches	DN	Spare O-Rings	Spare Gaskets
		Part Number	Part Number
4	100	00-1250-0001	00-5238-0004-01
6	150	00-1250-0002	00-5238-0006-01
8	200	00-1250-0003	00-5238-0008-01
10	250	00-1250-0004	00-5238-0010-01
12	300	00-1250-0005	00-5238-0012-01

Note: The TDW fitting provides sufficient material wall thickness for itself and in many cases reinforcement for the branch opening in the pipe. However, the chart above specifies minimum wall thickness of the pipe for self reinforcement. (Based on 35,000 PSI SMYS)



SHORTSTOPP® Welding Fittings and SHORTPLUG™ with Guide Bars

4-inch Spool Adapter, 06-1165-0176-00

(required to set the SHORTPLUG™ with Guide Bars)

Equipment	Housing	Required
SHORTSTOPP® 60	08-0100-0001	Yes
SHORTSTOPP® II	08-3347-0000	Yes
SHORTSTOPP® II	08-3352-0000	Yes
SHORTSTOPP® 275	06-1542-0000	Yes
SHORTSTOPP® 275	08-0941-0000	No
SHORTSTOPP® 275	08-1748-0000	No

12-inch Spool Adapter, 06-1165-0180-00

(required to set the 10-inch SHORTPLUG™ with Guide Bars)

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	Yes
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No

6-inch Spool Adapter, 06-1165-0177-00

(required to set the SHORTPLUG™ with Guide Bars)

Equipment	Housing	Required
SHORTSTOPP® 60	08-0971-0001	Yes
SHORTSTOPP® II	08-3348-0000	Yes
SHORTSTOPP® II	08-3353-0000	Yes
SHORTSTOPP® 275	06-1543-0000	no
SHORTSTOPP® 275	08-0942-0000	No

12-inch Spool Adapter, 06-1165-0180-00

(required to set the SHORTPLUG™ with Guide Bars)

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	No
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No

8-inch Spool Adapter, 06-1165-0178-00

(required to set the SHORTPLUG™ with Guide Bars)

Equipment	Housing	Required
SHORTSTOPP® 60	08-0102-0001	Yes
SHORTSTOPP® II	08-3349-0000	Yes
SHORTSTOPP® II	08-3350-0000	No
SHORTSTOPP® 275	06-1544-0000	No
SHORTSTOPP® 275	08-0943-0000	No



Spherical 3-WAY™ Tee

and SHORTPLUG™ with Guide Bars, Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.014.02

Date: January 2005

Cross Indexing No: n/a

Supersedes: October 2004

■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars Sizes 4" through 12"



Description

Full-encirclement, low-profile Spherical 3-WAY™ Tees and SHORTPLUG™ with Guide Bars is designed for use with the TDW SHORTSTOPP® Plugging Machine system.

The bore of the 4" through 12" (DN 100 - DN 300) tee is internally grooved to engage the leaves of standard SHORTPLUG with Guide Bars.

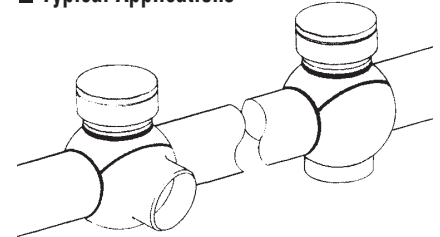
In the 4- through 12-inch sizes, reusable bolt-on flange adapters adapt the tee to TDW SHORTCUTT® and SHORTSTOPP® Valves.

Features

When used with SHORTSTOPP Plugging Machines, the maximum recommended working pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself.

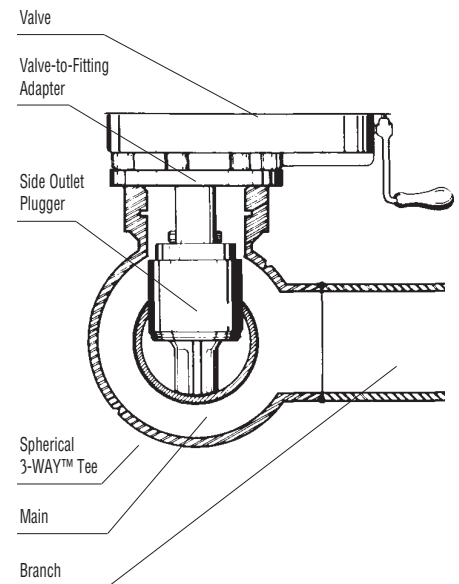
All fittings are compatible with most ASME Class 150 applications. With the plugging equipment removed, the maximum working pressure is 285 psi (20 bar) at 100°F (38°C) or 245 psi (17 bar) at 180°F (82°C) per ASME B31.4. See chart on page 2 for MAOP per ASME B31.8.

■ Typical Applications



The bottom half of the Spherical 3-WAY™ Tee can be turned for either a side or bottom* outlet as illustrated. The tee also can be installed horizontally.

*Use of SHORTSTOPP® 275 Plugging Machines is not recommended in bottom outlet configuration.



The SHORTSTOPP® 275 system's Side Outlet Plugging Machine is used with Spherical 3-WAY™ Tees to plug the tapped hole in a main. It forms a pressure-tight seal that simultaneously allows flow to continue in the main while preventing it from escaping into the side outlet. This permits maintenance work on the branch line without interruption of flow in the main line.

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



Spherical 3-WAY™ Tee and SHORTPLUG™ Guide Bars



■ 4- through 12-inch

Valve-to-Fitting Adapters for 4- through 12-inch (DN 100 - DN 300) Spherical 3-WAY™ Tee

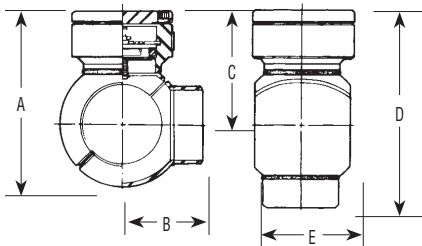
Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	10	5	06-5724-0001
6	150	13	6	06-5724-0002
8	200	25	11	06-5724-0003
10	250	40	19	06-5724-0010
12	300	55	25	06-5724-0011

Spherical 3-WAY™ Tee for Use with SHORTSTOPP® 60 and SHORTSTOPP® 275 Plugging Machines

Maximum Allowable Operating Pressure in PSI, Per ASME B31.8 at -20 to +100° F

Size		Weight		Part Number	Design Factor				Spare O-rings	Spare Gaskets
Inch	DN	Lbs.	Kg.		0.72	0.6	0.5	0.4		
4	100	30	14	26-1535-0402-21	285	285	285	285	00-1250-0001	00-5238-0004-01
6	150	75	34	26-1535-0602-21	285	285	285	285	00-1250-0002	00-5238-0006-01
8	200	105	48	26-1535-0802-21	285	285	285	285	00-1250-0003	00-5238-0008-01
10	250	190	86	26-1535-1002-21	285	285	285	285	00-1250-0004	00-5238-0010-01
12	300	265	120	26-1535-1202-21	285	285	285	285	00-1250-0005	00-5238-0012-01

Spherical 3-WAY Tee complete includes: cap or cover flange with gasket, cap screws and plastic capplugs, SHORTPLUG™ with Guide Bars and tee.



Size 4-inch (100 mm), 6- (150 mm), 8- (200 mm), 10- (250 mm) and 12-inch (300 mm)

Dimensions

Size		A		B		C		D		E	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4	100	11.687	297	5.406	137	7.375	187	12.781	325	7.312	186
6	150	16.125	410	7.750	196	9.750	248	17.500	444	10.875	276
8	200	17.062	433	8.375	212	10.062	255	18.437	468	10.937	277
10	250	21.312	541	10.437	265	12.312	312	22.750	577	14.375	365
12	300	22.812	579	11.312	287	12.812	325	24.125	613	14.812	376



Spherical 3-WAY™ Tee and SHORTPLUG™ Guide Bars

4-inch Spool Adapter, 06-1165-0176-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0100-0001	Yes
SHORTSTOPP® II	08-3347-0000	Yes
SHORTSTOPP® II	08-3352-0000	Yes
SHORTSTOPP® 275	06-1542-0000	Yes
SHORTSTOPP® 275	08-0941-0000	No
SHORTSTOPP® 275	08-1748-0000	No

6-inch Spool Adapter, 06-1165-0177-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0971-0001	Yes
SHORTSTOPP® II	08-3348-0000	Yes
SHORTSTOPP® II	08-3353-0000	Yes
SHORTSTOPP® 275	06-1543-0000	Yes
SHORTSTOPP® 275	08-0942-0000	No

8-inch Spool Adapter, 06-1165-0178-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0102-0001	Yes
SHORTSTOPP® II	08-3349-0000	Yes
SHORTSTOPP® II	08-3350-0000	No
SHORTSTOPP® 275	06-1544-0000	No
SHORTSTOPP® 275	08-0943-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required
to set the 10-inch SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	No
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	No
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No



SHORTSTOPP® 300D Split Tees

and SHORTPLUG™ with Guide Bars, Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.015.03

Date: January 2011

Cross Indexing No: n/a

Supersedes: 2100.015.02 (5/10)



■ **SHORTSTOPP® 300D Split Tee and SHORTPLUG™ with Guide Bars**

Description

The SHORTSTOPP® 300D Fitting and SHORTPLUG™ with Guide Bars is an extruded-style split tee. The fitting is furnished with a flange that is drilled, faced, and pressure rated to match ASME Class 300 flanges. It is used with TDW plugging machines to temporarily plug the line for maintenance or repair without shutdown. The flange is machined to accept SHORTPLUGS with Guide Bars.

Features

Quality control measures include inspection to ensure a proper fit on the pipeline, flange alignment verification, and radiographic weld inspection* to API Standard 1104.

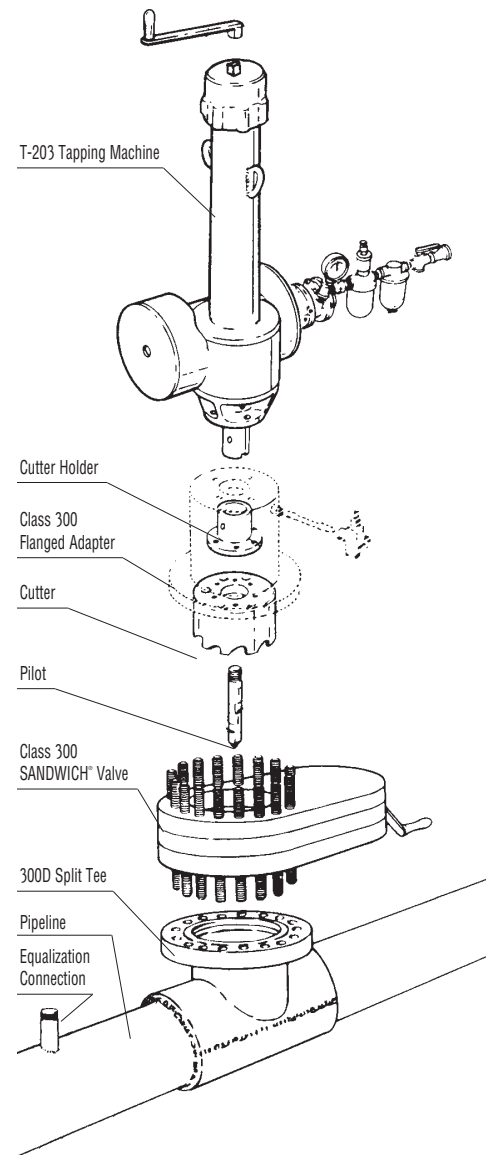
The maximum operating pressure of the SHORTSTOPP 300D Fitting is 740 psi (51 bar) at 100°F (38°C). The maximum operating temperature of the SHORTSTOPP 300D Fitting is 180°F (82°C) at 675 psi (47 bar) per ASME B31.4. See chart on page 2 for MAOP per ASME B31.8.

All fittings are stamped with a code number for material identification, and a painted band ensures easy alignment in the field. Material certificates are available.

The 4-inch and larger fittings are complete with blind flange, studs, nuts, gasket, O-ring, and SHORTPLUG with Guide Bars.

* 100 percent ultrasonic examination performed at TDW's Nivelles, Belgium plant.

■ Typical Tapping Setup



Maximum Pressure: 740 psig @ 100°F
Maximum Temperature: 180°F @ 675 psig

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® 300D Split Tees and SHORTPLUGS™ with Guide Bars - .5 Design Factor

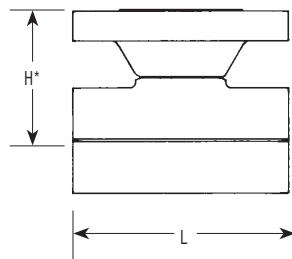
300D Split Tees Class 300 and SHORTPLUGS with Guide Bars

Maximum allowable operating pressure (in PSI) per ASME B31.8 at -20 to +100° F

Size Inches	DN	Weight		Design Factor				Part Number
		Lbs.	Kg.	0.72	0.6	0.5	0.4	
4	100	80	36	740	740	740	740	26-2427-0004-00
6	150	160	73	740	740	740	605	26-2427-0006-00
8	200	240	109	740	740	740	640	26-2427-0008-00
10	250	390	177	740	740	740	605	26-2427-0010-00
12	300	580	264	740	740	740	605	26-2427-0012-00

The above fittings are complete with cap or blind flange, studs, nuts, gasket, O-ring and SHORTPLUG with Guide Bars.

Dimensions



Size		L		H*	
Inches	DN	Inches	mm	Inches	mm
4	100	10.75	273	6.22	158
6	150	14.00	356	7.91	201
8	200	16.50	419	9.47	240
10	250	20.00	508	11.03	280
12	300	22.00	559	12.72	323

*Height of fitting does not include blind flange and gasket.

Spare O-Rings

Size		
Inches	DN	Part Number
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

SHORTPLUGS with Guide Bars for 300D Split Tees

Size			Weight	
Inches	DN	Part Number	Lbs.	Kg.
4	100	07-1887-0004-00	5	2
6	150	07-1887-0006-00	11	5
8	200	07-1887-0008-00	20	9
10	250	07-1887-0010-00	31	14
12	300	07-0887-0012-00	52	24



SHORTSTOPP® 300D Split Tees and SHORTPLUG™ with Guide Bars

**4-inch Spool Adapter, 06-1165-0181-00 required
to set the SHORTPLUG® with Guide Bar**

Equipment	Housing	Required
SHORTSTOPP® 500	06-7370-0001	Yes
SHORTSTOPP® 500	08-2143-0000	No
SHORTSTOPP® 500	08-2148-0000	No

**6-inch Spool Adapter, 06-1165-0182-00 required
to set the SHORTPLUG® with Guide Bar**

Equipment	Housing	Required
SHORTSTOPP® 500	06-7371-0000	No
SHORTSTOPP® 500	08-2144-0000	No

**8-inch Spool Adapter, 06-1165-0183-00 required
to set the SHORTPLUG® with Guide Bar**

Equipment	Housing	Required
SHORTSTOPP® 500	06-7372-0000	No
SHORTSTOPP® 500	08-2145-0000	No

**10-inch Spool Adapter, 06-1165-0184-00 required
to set the SHORTPLUG® with Guide Bar**

Equipment	Housing	Required
SHORTSTOPP® 500	06-7373-0000	Yes*
SHORTSTOPP® 500	08-2146-0000	No

* To set the SHORTPLUG™ with Guide Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

**12-inch Spool Adapter, 06-1165-0185-00 required
to set the SHORTPLUG® with Guide Bar**

Equipment	Housing	Required
SHORTSTOPP® 500	06-7374-0000	No
SHORTSTOPP® 500	08-2147-0000	No



SHORTSTOPP® 3-WAY™ Tees

300D Full Encirclement and SHORTPLUG™ with Guide Bars; Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.016.02

Date: May 2010

Cross Indexing No: n/a

Supersedes: October 2004



■ SHORTSTOPP® 3-WAY Tee

300D Full Encirclement and SHORTPLUG™ with Guide Bar, Sizes 4- through 12-inch

Description

The SHORTSTOPP® 3-WAY™ Tee 300D is welded to an extruded-style split tee. The fittings, 4-inch and larger, are furnished with a flange—drilled, faced, and pressure-rated to match ASME Class 300 flanges. They are used with TDW plugging machines to temporarily plug the line without shutdown while installing a permanent bypass. The flange is machined to accept SHORTPLUGS™ with Guide Bars.

Features

Quality control measures include inspection to ensure a proper fit on the pipeline, flange alignment verification, and radiographic weld inspection* to API Standard 1104.

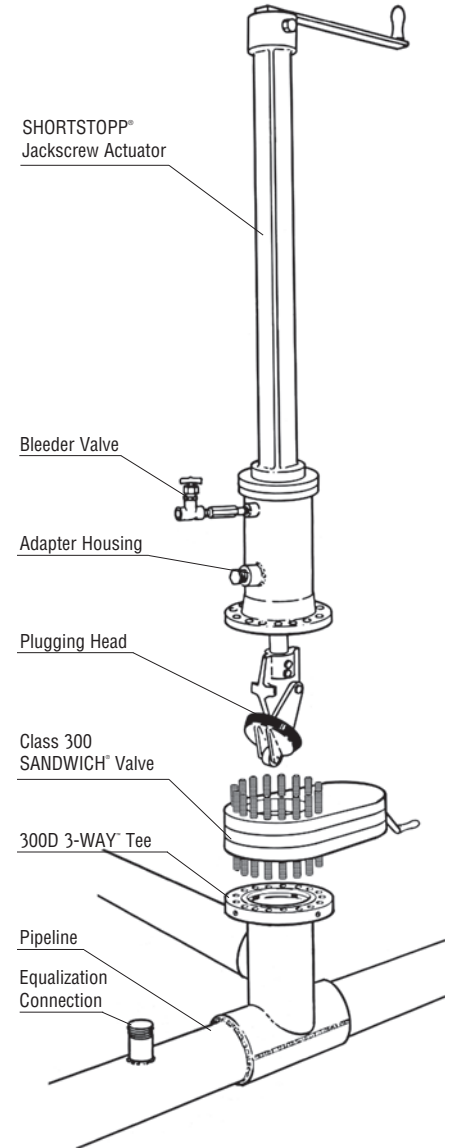
The maximum operating pressure of the SHORTSTOPP 300D 3-WAY Tee is 740 psi (51 bar) at 100°F (38°C). Its maximum operating temperature is 180°F (82°C) at 675 psi (47 bar) per ASME B31.4. See chart on page 2 for MOAP per ASME B31.8

All fittings are stamped with a code number for material identification and a painted band ensures easy alignment in the field. Material certificates are available.

The 4-inch and larger fittings are complete with blind flange, studs, nuts, gasket, O-ring, and SHORTPLUG with Guide Bars

*100 percent ultrasonic examination performed at TDW's Nivelles, Belgium plant.

■ Typical Plugging Setup



Maximum Pressure: 740 psig @ 100°F
Maximum Temperature: 180°F @ 675 psig

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement and SHORTPLUG™ with Guide Bars

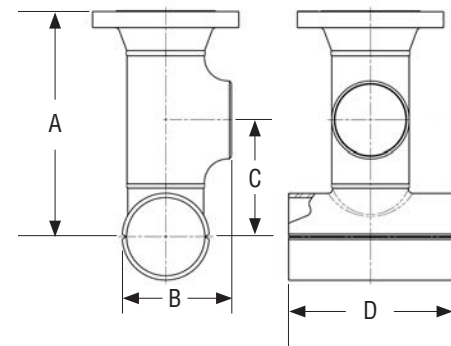
300D 3-WAY™ Tee Class 300 and SHORTPLUGS™ with Guide Bars

Maximum Allowable Operating Pressure (in psi) Per ASME B31.8 at -20 to +100° F

Size		Weight		Design Factor				Part Number
Inches	DN	Lbs.	Kg.	0.72	0.60	0.50	0.40	
4	100	100	45	740	740	740	740	26-1535-0403-31
6	150	185	83	740	740	740	635	26-1535-0603-31
8	200	200	91	740	740	665	530	26-1535-0803-31
10*	250	495	225	740	700	585	465	26-1535-1003-31
12*	300	730	331	740	645	535	430	26-1535-1203-31

*NOTE: 300D 10- and 12-inch 3-WAY Tees cannot be tapped using the T-203 Tapping Machine due to insufficient travel.

4- through 12-inch fittings are complete with blind flange, studs, nuts, gasket, O-ring, and SHORTPLUG with Guide bars.



Dimensions

Size		A**		B		C		D	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4	100	14.50	368	4.13	105	10.75	273	7.25	184
6	150	19.19	487	5.63	143	14.00	356	9.94	252.4
8	200	23.56	598	7.00	178	16.50	419	12.44	316
10*	250	28.12	714	8.50	216	20.00	508	15.25	387
12*	300	32.81	830	10.00	254	22.00	559	17.94	455.7

*NOTE: 300D 10- and 12-inch 3-WAY Tees cannot be tapped using the T-203 Tapping Machine due to insufficient travel.

** 4- through 12-inch Flange Dimension A does not include blind flange and gasket

Spare O-Rings

Size		Part Number
Inches	DN	
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

SHORTPLUGS™ with Guide Bars for SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement

Size			Weight	
Inches	DN	Part Number	Lbs.	Kg.
4	100	07-1553-0000-61	6	3
6	150	07-1554-0000-61	12	5
8	200	07-1555-0000-61	23	10
10	250	07-1556-0000-61	36	16
12	300	07-1557-0000-61	58	26



SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement and SHORTPLUG™ with Guide Bars - .5 Design Factor

300D 3-WAY™ Tee Class 300 and SHORTPLUGS™ with Guide Bars

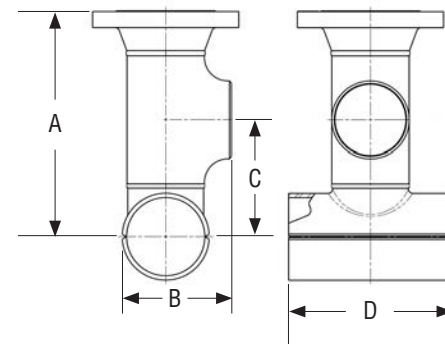
Maximum Allowable Operating Pressure (in psi) Per ASME B31.8 at -20 to +100° F

Size		Weight		Design Factor				Part Number
Inches	DN	Lbs.	Kg.	0.72	0.60	0.50	0.40	
4	100	95	43	740	740	740	740	26-2417-0004-SF
6	150	190	86	740	740	740	592	26-2417-0006-SF
8	200	300	136	740	740	740	592	26-2417-0008-SF
10	250	500	227	740	740	740	592	26-2417-0010-SF
12	300	720	327	740	740	740	592	26-2417-0012-SF

SF: 00 IS WITHOUT BACKUP STRIPS, 01 IS WITH BACKUP STRIPS

*NOTE: 300D 10- and 12-inch 3-WAY Tees cannot be tapped using the T-203 Tapping Machine due to insufficient travel.

4- through 12-inch fittings are complete with blind flange, studs, nuts, gasket, O-ring, and SHORTPLUG with Guide bars.



Dimensions

Size		A**		B		C		D	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4	100	14.50	368	4.13	105	10.75	273	7.25	184
6	150	19.19	487	5.63	143	14.00	356	9.94	252.4
8	200	23.56	598	7.00	178	16.50	419	12.44	316
10*	250	28.12	714	8.50	216	20.00	508	15.25	387
12*	300	32.81	830	10.00	254	22.00	559	17.94	455.7

*NOTE: 300D 10- and 12-inch 3-WAY Tees cannot be tapped using the T-203 Tapping Machine due to insufficient travel.

** 4- through 12-inch Flange Dimension A does not include blind flange and gasket

Spare O-Rings

Size		Part Number
Inches	DN	
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

SHORTPLUGS™ with Guide Bars for SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement

Size			Weight	
Inches	DN	Part Number	Lbs.	Kg.
4	100	07-1886-0004-00	6	3
6	150	07-1886-0006-00	12	5
8	200	07-1886-0008-00	23	10
10	250	07-1886-0010-00	36	16
12	300	07-1886-0012-00	58	26



SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement and SHORTPLUG™ with Guide Bars

4-inch Spool Adapter, 06-1165-0181-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7370-0000	Yes
SHORTSTOPP® 500	08-2143-0000	Yes
SHORTSTOPP® 500	08-2148-0000	Yes

6-inch Spool Adapter, 06-1165-0182-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7371-0000	Yes
SHORTSTOPP® 500	08-2144-0000	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

8-inch Spool Adapter, 06-1165-0183-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7372-0000	Yes
SHORTSTOPP® 500	08-2145-0000	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

10-inch Spool Adapter, 06-1165-0184-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7373-0000	Yes*
SHORTSTOPP® 500	08-2146-0000	Yes*
SHORTSTOPP® 500	06-5089-0010	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

12-inch Spool Adapter, 06-1165-0185-00 required
to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7374-0000	Yes*
SHORTSTOPP® 500	08-2147-0000	**
SHORTSTOPP® 500	06-5089-0012	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

** SHORTPLUG™ with Guide Bars cannot be set with this housing/spool combination

300D Spherical 3-WAY Tees

and **SHORTPLUG™** with Guide Bars for **SHORTSTOPP™** Plugging Machines; Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.017.02

Date: May 2010

Cross Indexing No: n/a

Supersedes: 2100.017.01 (01/05)



■ **SHORTSTOPP® 300D**
Spherical 3-WAY™ Tee
with **SHORTPLUG™** with Guide Bars

Description

The **SHORTSTOPP® 300D Spherical 3-WAY™** Tee with **SHORTPLUG™** with Guide Bars, 4-inch and larger, is furnished with a flange, drilled, faced and pressure-rated to match ASME Class 300 flanges. They are used with TDW plugging machines to temporarily plug the line without shutdown while installing a permanent bypass. The bottom half of the fitting can be rotated for a side or a bottom outlet. The flange is machined to accept **SHORTPLUGS** with Guide Bars.

Quality control measures include inspection to ensure a proper fit on the pipeline, flange alignment verification, and radiographic weld inspection* to API Standard 1104.

*100 percent ultrasonic examination performed at TDW's Nivelles, Belgium plant.

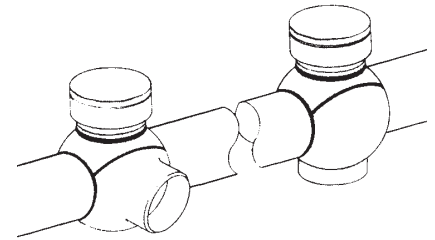
Features

All fittings are stamped with a code number for material identification. Material certificates are available.

The fitting is complete with blind flange, studs, nuts, gasket, O-ring, and **SHORTPLUG** with Guide Bars. The bottom half of the tee can be turned for either a side or bottom outlet. The tee also can be installed horizontally.

With plugging equipment removed, the maximum pressure is 740 psig (49 bar) at 100°F (38° C). The maximum operating temperature is 180°F (82°C) at 675 psig (45 bar) per ASME B31.4. See charts on page 2 for MAOP per ASME B31.8.

Typical Applications



The bottom half of the tee can be turned for either a side or bottom* outlet. The tee can also be installed horizontally.

*Use of **SHORTSTOPP® 275** Plugging Machines is not recommended in bottom outlet configuration.

Class 300 SANDWICH® Valve

Branch

300D Spherical
3-WAY™ Tee

Main

The side outlet plunger can be installed on the control bar of either the **SHORTSTOPP®** Plugging/Completion Machine or the **SHORTSTOPP®** Jackscrew Actuator, and is used on the Spherical 3-WAY™ Tee to plug the tapped hole in the main line. This stops flow into the side outlet, permitting maintenance work on the branch connection.

Maximum working pressure is 275 psi for the side outlet plunger.

ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



300D Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars



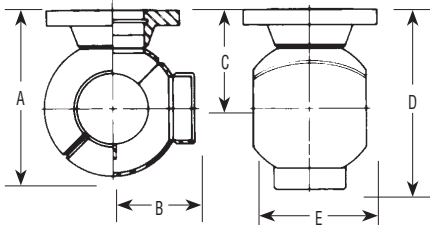
■ 4- through 12-inch

300D Spherical 3-WAY™ Tee Class 300

Maximum Allowable Operating Pressure in PSI, Per ASME B31.8 at -20 to +100° F

Size Inches	DN	Design Factor				Part Number	Weight		Outlet Type
		0.72	0.60	0.50	0.40		Lbs.	Kg.	
4	100	740	740	740	740	26-1535-0403-21	81.5	37	Standard
6	150	740	740	659	527	26-1535-0631-21	156	70.8	Standard
6	150	740	740	659	527	26-1535-0630-21	156	70.8	Thinwall
8	200	740	684	570	456	26-1535-0831-21	248	112.5	Standard
8	200	740	684	570	456	26-1535-0830-21	248	112.5	Thinwall
10	250	740	690	575	460	26-1535-1030-21	364	165.1	Standard
10	250	740	690	575	460	26-1535-1031-21	364	165.1	Thinwall
12	300	740	630	525	420	26-1535-1230-21	502	227.7	Standard
12	300	740	630	525	420	26-1535-1231-21	502	227.7	Thinwall

The above fittings are complete with cap or blind flange, studs, nuts, gasket, O-ring, and SHORTPLUG with Guide Bars.



Sizes 4-inch (100 mm), 6- (150 mm), 8- (200 mm), 10- (250 mm) and 12-inch (300 mm)

Dimensions

Size		A		B		C		D		E	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4	100	11.28	287	5.41	137	6.97	177	12.38	314	6.91	175
6	150	15.63	397	7.75	197	9.25	235	17.00	432	10.50	267
8	200	16.88	429	8.31	211	9.88	251	18.19	462	10.56	268
10	250	20.84	529	10.41	264	11.84	301	22.25	565	13.88	352
12	300	22.84	580	11.28	287	12.84	326	24.13	613	14.81	376

Spare O-Rings

Size		Part Number
Inches	DN	
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

SHORTPLUGS™ with Guide Bars for SHORTSTOPP® 300D Spherical 3-WAY™ Tee

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
4	100	07-1553-0000-61	5	2
6	150	07-1554-0000-61	11	5
8	200	07-1555-0000-61	21	10
10	250	07-1556-0000-61	33	15
12	300	07-1557-0000-61	55	25



300D Spherical 3-WAY™ Tee

and SHORTPLUG™ with Guide Bars - .5 Design Factor



■ 4- through 12-inch

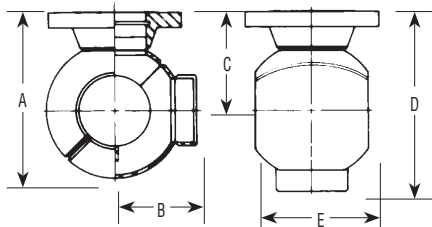
300D Spherical 3-WAY™ Tee Class 300

Maximum Allowable Operating Pressure in PSI, Per ASME B31.8 at -20 to +100° F

Size Inches	DN	Design Factor				Part Number	Weight	
		0.72	0.60	0.50	0.40		Lbs.	Kg.
4	100	740	740	740	740	26-2443-0004-00	140	64
6	150	740	740	740	592	26-2443-0006-SF	160	73
8	200	740	740	740	592	26-2443-0008-SF	260	118
10	250	740	740	740	592	26-2443-0010-SF	430	195
12	300	740	740	740	592	26-2443-0012-SF	870	395

SF: 00 is for standard weight pipe, 01 is for thin-wall pipe.

The above fittings are complete with cap or blind flange, studs, nuts, gasket, O-ring, and SHORTPLUG with Guide Bars.



Sizes 4-inch (100 mm), 6- (150 mm), 8- (200 mm), 10- (250 mm) and 12-inch (300 mm)

Dimensions

Size		A		B		C		D		E	
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4	100	11.28	287	5.41	137	6.97	177	12.78	325	6.72	171
6	150	15.63	397	7.72	196	9.25	235	16.97	431	10.28	261
8	200	19.05	484	9.50	241	11.05	281	20.55	522	12.80	325
10	250	23.06	586	11.62	295	13.06	332	24.68	627	16.03	407
12	300	27.20	691	13.70	348	15.20	386	28.90	734	19.34	491

Spare O-Rings

Size		Part Number
Inches	DN	
4	100	00-1250-0001
6	150	00-1250-0002
8	200	00-1250-0003
10	250	00-1250-0004
12	300	00-1250-0005

SHORTPLUGS™ with Guide Bars for SHORTSTOPP® 300D Spherical 3-WAY™ Tee

Size		Part Number	Weight	
Inches	DN		Lbs.	Kg.
4	100	07-1890-0004-00	5	2
6	150	07-1890-0006-00	11	5
8	200	07-1890-0008-00	21	10
10	250	07-1890-0010-00	33	15
12	300	07-1890-0012-00	55	25



300D Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars

4-inch Spool Adapter, 06-1165-0181 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7370-0000	Yes
SHORTSTOPP® 500	08-2143-0000	No
SHORTSTOPP® 500	08-2148-0000	No

8-inch Spool Adapter, 06-1165-0183 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7372-0000	No
SHORTSTOPP® 500	08-2145-0000	No

12-inch Spool Adapter, 06-1165-0185 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7374-0000	No
SHORTSTOPP® 500	08-2147-0000	No

6-inch Spool Adapter, 06-1165-0182

required to set the Pig Guide SHORTPLUG®

Equipment	Housing	Required
SHORTSTOPP® 500	06-7371-0000	Yes
SHORTSTOPP® 500	08-2144-0000	No

10-inch Spool Adapter, 06-1165-0184 required

to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7373-0000	Yes*
SHORTSTOPP® 500	08-2146-0000	No

* To set the SHORTPLUG™ with Guide Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

ProSeries™ Fittings

STOPPLE® & STOPPLE® PLUS Class 600

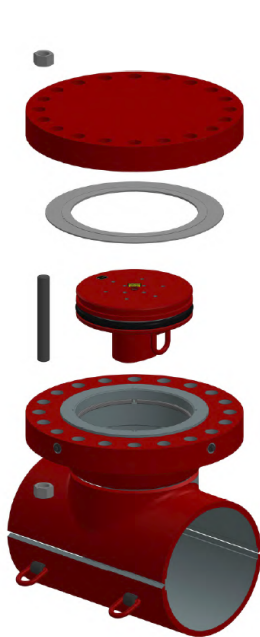
Sizes 4 to 36-inch



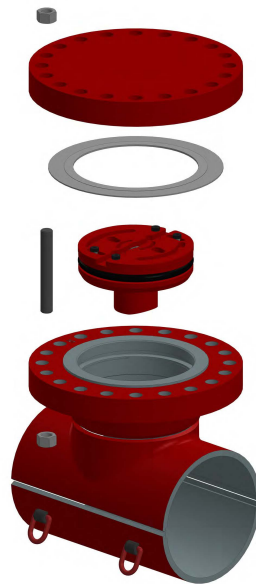
T.D. Williamson

Bulletin No: 2100.023.00

Version: 07.2018



STOPPLE Fitting



STOPPLE Plus Fitting

Description

ProSeries STOPPLE and STOPPLE Plus 600 Class full-branch split tee fittings designed for use with TDW STOPPLE and STOPPLE Train plugging system (exception 4"). They meet ASME B31.3/B31.4./B31.8 and CSA Z662 CAT I and CAT II specifications for use in pipeline transportation and gathering systems for liquid and gas hydrocarbons and other fluids; as well as refining locations.

ProSeries STOPPLE and STOPPLE Plus fittings are furnished with LOCK-O-RING and LOCK-O-RING Plus flanges to accept LOCK-O-RING and LOCK-O-RING Plus completion plug, respectively, permitting removal of the tapping valve after work is completed.

Features

Flange-to-sleeve weld-joints and sleeves are designed to meet pressure and reinforcement requirements of ASME and CSA codes and are available in Class 600. Other ASME Class ratings available upon request.

Most fittings are manufactured with a controlled maximum carbon equivalent of 0.43 to make welding easier in harsh environments. Back-up strips are standard and provided for all fittings.

All pressure-containing welds on the fittings have undergone X-ray inspection per ASME and API requirements.

Fitting sleeves are manufactured from a pressure-vessel quality, normalized and killed carbon steel plate with a hardness below 22 HRC.

The Charpy impact value of the sleeves at -58°F (-50°C) is 28 J min / 37 J min-avg.

All ProSeries LOCK-O-RING and LOCK-O-RING Plus completion plugs are fitted with low temperature FKM O-rings. The O-rings are compatible with most pipeline products between -50°F to 400°F. All materials used meet ASME B31.3 and 31.8 requirements.

All ProSeries LOCK-O-RING and LOCK-O-RING Plus completion plugs have scarfed nipples welded.

All ProSeries blind flange kits are suitable for applications ranging from -50°F to 400°F.

Options

System kits (one part number containing a fitting, completion plug and blind flange, with the option of tapped or plain) are available for the 0.72DF option.

All ProSeries fittings and associated products are shipped within 3 to 6 weeks, based on the size requested.





ProSeries STOPPLE & STOPPLE PLUS Fittings

Technical Specifications

Construction Code	ASME B31.4 (-20°)/ B31.8 / CSA Z662 CAT I & II				ASME B31.3		
	Design Factor						
Design Factor	0.72		0.5				N/A
Carbon Equivalent	0.43		0.43**				0.43**
Min. Design Temperature (°F)	-50°		-50°				-20°
Max. Design Temperature (°F)	250°		250°		250°	250°/400°	400°
Size (inches)	Design Pressure (PSI)	Fitting Sleeve Thickness (inches)	Design Pressure (PSI)	Fitting Sleeve Thickness (inches)	Design Pressure (PSI)	Fitting Sleeve Thickness (inches)	Design Pressure (PSI)
4		0.375		0.375		0.375	
6		0.375		0.625		0.625	
8		0.375		0.750		0.750	
10		0.500		0.875		0.875	
12		0.625		1.000		1.000	
14		0.625		1.000	1480	1.125	1330**
16	1480	0.750	1480	1.000		1.250	
18		0.875		1.250		1.250	
20		1.000		1.375		1.500	
22		1.250		1.500		1.750	
24		1.250		1.750		2.000	
30		1.375		2.250		2.250	
36		1.750		3.000	1350*	2.500	1280*

All fittings have a corrosion allowance of 0. All materials and welding procedures are NACE MR0175 compliant.

Flange material is ASTM A707 L2 CL2 / A350 LF2 CL1.

All sleeve material is ASTM A537 CL1 and EN10028-3 P355NL1.

* Pressure de-rates to 1350 PSI on a 36" fitting under maximum temperature of 250°F. For temperatures of 400°F, the maximum pressure rating is 1330 PSI up to 30". For 36" the maximum pressure rating at 400°F is 1280 PSI.

**Fittings are manufactured with a controlled maximum carbon equivalent (CE) of 0.43 to make welding easier in harsh environments. Larger size fittings made of material 60mm and thicker could have a CE up to 0.45.



ProSeries STOPPLE & STOPPLE PLUS Fittings

Tee Kits, Plug Kits, Blind Flange Kits (BFK) & O-ring Kits

Size (inches)	STOPPLE PLUS 0.72DF		STOPPLE PLUS 0.5DF Fully Rated		STOPPLE PLUS ASME B31.3 Fitting	
	Tee Kit	Tee Kit	Tee Kit	Tee Kit	Tee Kit	Tee Kit
4	12330000	12330013	12330026	12330039	12330128	12330154
6	12330001	12330014	12330027	12330040	12330129	12330155
8	12330002	12330015	12330028	12330041	12330130	12330156
10	12330003	12330016	12330029	12330042	12330131	12330157
12	12330004	12330017	12330030	12330043	12330132	12330158
14	12330005	12330018	12330031	12330044	12330133	12330159
16	12330006	12330019	12330032	12330045	12330134	12330160
18	12330007	12330020	12330033	12330046	12330135	12330161
20	12330008	12330021	12330060	12330073	12330136	12330162
22	12330009	12330022	12330061	12330074	12330137	12330163
24	12330010	12330023	12330062	12330075	12330138	12330164
30	12330011	12330024	12330063	12330076	12330139	12330165
36	12330012	12330025	12330064	12330077	12330140	12330166

Size (inches)	LOCK-O-RING PLUGS			LOCK-O-RING PLUS PLUGS			BFK	O-ring
	0.72	0.5	B31.3	0.72	0.5	B31.3		
	Plug Kit	Plug Kit	Plug Kit	Plug Kit	Plug Kit	Plug Kit		
4	12333771	12333771	12333771	12333776	12333776	12333776	12330180	12325180
6	12333990	12333779	12333779	12334385	12334382	12334382	12327280	12327606
8	12333992	12334178	12334178	12334388	12334387	12334387	12327285	12327646
10	12334180	12334181	12334181	12334391	12334390	12334390	12327291	12327937
12	12334183	12334184	12334185	12334394	12334396	12334393	12327422	12327938
14	12334187	12334188	12334189	12334400	12334401	12334398	12327425	12327939
16	12334191	12334192	12334193	12334405	12334406	12334403	12327430	12327973
18	12334195	12334196	12334197	12334409	12334410	12334408	12327435	12328016
20	12334199	12334201	12334202	12334414	12334415	12334412	12327440	12328017
22	12334204	12334205	12334206	12334418	12334419	12334417	12327570	12328018
24	12334208	12334209	12334210	12334422	12334423	12334421	12327443	12328019
30	12334212	12334214	12334215	12334428	12334430	12334426	12327449	12328021
36	12334217	12334219	12334220	12334434	12334436	12334433	12327492	12328023



ProSeries STOPPLE & STOPPLE PLUS Fittings

System Kits, with Blind Flange Plain or Tapped *

0.72 DF

Size (inches)	Plain BFK		Tapped BFK	
	STOPPLE	STOPPLE PLUS	STOPPLE	STOPPLE PLUS
4	12334630	12334643	12335288	12335301
6	12334631	12334644	12335289	12335302
8	12334632	12334645	12335290	12335303
10	12334633	12334646	12335291	12335304
12	12334634	12334647	12335292	12335305
14	12334635	12334648	12335293	12335306
16	12334636	12334649	12335294	12335307
18	12334637	12334650	12335295	12335308
20	12334638	12334651	12335296	12335309
22	12334639	12334652	12335297	12335310
24	12334640	12334653	12335298	12335311
30	12334641	12334654	12335299	12335312
36	12334642	12334655	12335300	12335313

*Note: 3/8 NPT threaded connection in blind flange center that allows pressure gauge or valve installation.

SHORTPLUG™ with Guide Bars

for SHORTSTOPP® Fittings Sizes 4- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2100.018.01
 Date: October 2004
 Cross Indexing No: n/a
 Supersedes: June 2004



■ **SHORTPLUG™ with Guide Bars**
 for SHORTSTOPP® Fittings
 Sizes: 4- through 12-inch

Description

SHORTPLUG™ completion plugs with Guide Bars are designed to replace the existing completion plugs in standard SHORTSTOPP® fittings. These SHORTPLUGS will fit SHORTSTOPP fittings already welded to the pipeline and allow the passage of internal inspection equipment. SHORTSTOPP fittings located in areas identified as High Consequence Areas (HCA) can be upgraded to be piggable with the SHORTPLUG with Guide Bars. For SHORTSTOPP TYPE II and SHORTSTOPP 300D fittings, sizes 4- through 12-inch, including Welding Fittings, Spherical Fittings, and 3-WAY Tee Fittings, size-on-size. For applications requiring other than size-on-size, please consult the factory.

Features

All SHORTSTOPP 60 and SHORTSTOPP II equipment can be used to set the SHORTPLUG with Guide Bars with some applications requiring basic spool adapters. Most SHORTPLUG with Guide Bars can be set with the standard completion machine used in conjunction with SHORTSTOPP 275 and SHORTSTOPP 500 equipment. In some applications, a longer completion machine may be required. See attached tables.

Note: To ensure the safety of pipeline operators, it is TDW's policy to carefully inspect existing fittings on pipelines to verify the completion plug seal is secure and holding pipeline pressure. While re-entering an existing fittings, the discovery of pressure above the completion plug must be handled properly and safely. While some pressure build-up above the completion plug is not uncommon, continuous pressure will require securing the blind flange and abandoning all attempts to re-enter the fitting while under pressure.

■ Typical SHORTSTOPP® Setup

Reference these Data Sheets for SHORTSTOPP equipment used to set SHORTPLUG with Guide Bars

SS60-4 to SS60-12	September 2004
SSII-4 to SSII-12	September 2004
SS275-4 to SS275-12	September 2004
SS500-4 to SS500-12	September 2004

The design of the 4- through 12-inch (100 mm - 300 mm) Type IIA Welding Fitting requires a reusable bolt-on flange adapter which adapts the fitting to TDW SHORTCUTT™ Valves.

ISO 9001 Certified

Toll Free
1-888-TDWmSon (839-6766)



SHORTSTOPP® Welding Fittings and SHORTPLUG™ with Guide Bars

SHORTPLUG™ with Guide Bars SHORTSTOPP® Welding Fittings (Type II)

Inches	DN	Weight		Part Number
		Lbs.	Kg.	
4	100	4	2	07-1553-0000-11
6	150	9	4	07-1554-0000-11
8	200	16	7	07-1555-0000-11
10	250	29	13	07-1556-0000-11
12	300	46	21	07-1557-0000-11



■ SHORTSTOPP® Welding Fitting and SHORTPLUG™ with Guide Bars Bulletin Number 2100.013

Use Tables to determine when spool adapters are required to set the SHORTPLUG™ completion plugs with Guide Bars.

4-inch Spool Adapter, 06-1165-0176-00

Equipment	Housing	Required
SHORTSTOPP® 60	08-0100-0001	Yes
SHORTSTOPP® II	08-3347-0000	Yes
SHORTSTOPP® II	08-3352-0000	Yes
SHORTSTOPP® 275	06-1542-0000	Yes
SHORTSTOPP® 275	08-0941-0000	No
SHORTSTOPP® 275	08-1748-0000	No

6-inch Spool Adapter, 06-1165-0177-00

Equipment	Housing	Required
SHORTSTOPP® 60	08-0971-0001	Yes
SHORTSTOPP® II	08-3348-0000	Yes
SHORTSTOPP® II	08-3353-0000	Yes
SHORTSTOPP® 275	06-1543-0000	no
SHORTSTOPP® 275	08-0942-0000	No

8-inch Spool Adapter, 06-1165-0178-00

Equipment	Housing	Required
SHORTSTOPP® 60	08-0102-0001	Yes
SHORTSTOPP® II	08-3349-0000	Yes
SHORTSTOPP® II	08-3350-0000	No
SHORTSTOPP® 275	06-1544-0000	No
SHORTSTOPP® 275	08-0943-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required to set the 10-inch SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	No
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No

12-inch Spool Adapter, 06-1165-0180-00

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	Yes
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No

All SHORTPLUGS with Guide Bars can be set using the spool adapter shown and the 07-1034-0000 completion machine except where indicated.

Applications with the * require the 07-1586-0000 completion machine with 48-inch travel.



SHORTSTOPP® 3-WAY Tee and SHORTPLUG™ with Guide Bars

SHORTPLUG™ with Guide Bars SHORTSTOPP® 3-WAY Tee (Type II)

Inches	Size		Weight		Part Number
	DN	Lbs.	Kg.		
4	100	6	3	07-1553-0000-21	
6	150	11	5	07-1554-0000-21	
8	200	19	9	07-1555-0000-21	
10	250	32	15	07-1556-0000-21	
12	300	50	23	07-1557-0000-21	



■ SHORTSTOPP 3-WAY Tee and SHORTPLUG™ with Guide Bars Bulletin Number 2100.012

Use Tables to determine when spool adapters are required to set the SHORTPLUG™ completion plugs with Guide Bars.

4-inch Spool Adapter, 06-1165-0176-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0100-0001	Yes
SHORTSTOPP® II	08-3347-0000	Yes
SHORTSTOPP® II	08-3352-0000	Yes
SHORTSTOPP® 275	06-1542-0000	Yes
SHORTSTOPP® 275	08-0941-0000	Yes
SHORTSTOPP® 275	08-1748-0000	Yes

8-inch Spool Adapter, 06-1165-0178-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0102-0001	Yes
SHORTSTOPP® II	08-3349-0000	Yes
SHORTSTOPP® II	08-3350-0000	Yes
SHORTSTOPP® 275	06-1544-0000	Yes
SHORTSTOPP® 275	08-0943-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	Yes
SHORTSTOPP® II	08-3351-0000	Yes
SHORTSTOPP® 275	06-1546-0000	Yes*
SHORTSTOPP® 275	08-0945-0000	No

* To set the SHORTPLUG™ with Guide Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

6-inch Spool Adapter, 06-1165-0177-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0971-0001	Yes
SHORTSTOPP® II	08-3348-0000	Yes
SHORTSTOPP® II	08-3353-0000	Yes
SHORTSTOPP® 275	06-1543-0000	Yes
SHORTSTOPP® 275	08-0942-0000	Yes*

* To set the SHORTPLUG™ with Guides Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

12-inch Spool Adapter, 06-1165-0180-00 required to set the 10-inch SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	Yes
SHORTSTOPP® II	08-3351-0000	Yes
SHORTSTOPP® 275	06-1546-0000	Yes*
SHORTSTOPP® 275	08-0945-0000	No

* To set the SHORTPLUG™ with Guides Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

Spherical 3-WAY™ Tee and SHORTPLUG™ Guide Bars

SHORTPLUG™ with Guide Bars Spherical 3-WAY Tee (Type II)

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	5	2	07-1553-0000-31
6	150	10	5	07-1554-0000-31
8	200	18	8	07-1555-0000-31
10	250	31	14	07-1556-0000-31
12	300	48	22	07-1557-0000-31



■ Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars Bulletin Number 2100.014

Use Tables to determine when spool adapters are required to set the SHORTPLUG™ completion plugs with Guide Bars.

4-inch Spool Adapter, 06-1165-0176-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0100-0001	Yes
SHORTSTOPP® II	08-3347-0000	Yes
SHORTSTOPP® II	08-3352-0000	Yes
SHORTSTOPP® 275	06-1542-0000	Yes
SHORTSTOPP® 275	08-0941-0000	No
SHORTSTOPP® 275	08-1748-0000	No

6-inch Spool Adapter, 06-1165-0177-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0971-0001	Yes
SHORTSTOPP® II	08-3348-0000	Yes
SHORTSTOPP® II	08-3353-0000	Yes
SHORTSTOPP® 275	06-1543-0000	Yes
SHORTSTOPP® 275	08-0942-0000	No

8-inch Spool Adapter, 06-1165-0178-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0102-0001	Yes
SHORTSTOPP® II	08-3349-0000	Yes
SHORTSTOPP® II	08-3350-0000	No
SHORTSTOPP® 275	06-1544-0000	No
SHORTSTOPP® 275	08-0943-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required to set the 10-inch SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	No
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No

12-inch Spool Adapter, 06-1165-0180-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 60	08-0104-0001	No
SHORTSTOPP® II	08-3351-0000	No
SHORTSTOPP® 275	06-1546-0000	No
SHORTSTOPP® 275	08-0945-0000	No



SHORTSTOPP® 300D Split Tees and SHORTPLUG™ with Guide Bars

SHORTPLUG™ with Guide Bars SHORTSTOPP® 300D Split Tees

Inches	Size		Weight		Part Number
	DN	Lbs.	Kg.		
4	100	5	2	07-1553-0000-41	
6	150	10	5	07-1554-0000-41	
8	200	20	9	07-1555-0000-41	
10	250	31	14	07-1556-0000-41	
12	300	52	24	07-1557-0000-41	



■ SHORTSTOPP® 300D Split Tees and SHORTPLUG™ with Guide Bars Bulletin Number 2100.015

Use Tables to determine when spool adapters are required to set the SHORTPLUG™ completion plugs with Guide Bars.

4-inch Spool Adapter, 06-1165-0181-00 required to set the SHORTPLUG® with Guide Bar

Equipment	Housing	Required
SHORTSTOPP® 500	06-7370-0001	Yes
SHORTSTOPP® 500	08-2143-0000	No
SHORTSTOPP® 500	08-2148-0000	No

6-inch Spool Adapter, 06-1165-0182-00 required to set the SHORTPLUG® with Guide Bar

Equipment	Housing	Required
SHORTSTOPP® 500	06-7371-0000	No
SHORTSTOPP® 500	08-2144-0000	No

8-inch Spool Adapter, 06-1165-0183-00 required to set the SHORTPLUG® with Guide Bar

Equipment	Housing	Required
SHORTSTOPP® 500	06-7372-0000	No
SHORTSTOPP® 500	08-2145-0000	No

10-inch Spool Adapter, 06-1165-0184-00 required to set the SHORTPLUG® with Guide Bar

Equipment	Housing	Required
SHORTSTOPP® 500	06-7373-0000	Yes*
SHORTSTOPP® 500	08-2146-0000	No

* To set the SHORTPLUG™ with Guide Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

12-inch Spool Adapter, 06-1165-0185-00 required to set the SHORTPLUG® with Guide Bar

Equipment	Housing	Required
SHORTSTOPP® 500	06-7374-0000	No
SHORTSTOPP® 500	08-2147-0000	No

SHORTSTOPP® 3-WAY™ Tee 300D Full Encirclement and SHORTPLUG™ with Guide Bars

SHORTPLUG™ with Guide Bars SHORTSTOPP® 3-WAY™ Tee (300D)

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	6	3	07-1553-0000-51
6	150	12	5	07-1554-0000-51
8	200	23	10	07-1555-0000-51
10	250	36	16	07-1556-0000-51
12	300	58	26	07-1557-0000-51



■ SHORTSTOPP 3-WAY™ Tee (300D)
and SHORTPLUG™ with Guide Bars
Bulletin Number 2100.016

Use Tables to determine when spool adapters are required to set the SHORTPLUG™ completion plugs with Guide Bars.

4-inch Spool Adapter, 06-1165-0181-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7370-0000	Yes
SHORTSTOPP® 500	08-2143-0000	Yes
SHORTSTOPP® 500	08-2148-0000	Yes

6-inch Spool Adapter, 06-1165-0182-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7371-0000	Yes
SHORTSTOPP® 500	08-2144-0000	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

8-inch Spool Adapter, 06-1165-0183-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7372-0000	Yes
SHORTSTOPP® 500	08-2145-0000	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

10-inch Spool Adapter, 06-1165-0184-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7373-0000	Yes*
SHORTSTOPP® 500	08-2146-0000	Yes*
SHORTSTOPP® 500	06-5089-0010	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

12-inch Spool Adapter, 06-1165-0185-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7374-0000	Yes*
SHORTSTOPP® 500	08-2147-0000	**
SHORTSTOPP® 500	06-5089-0012	Yes*

* To set the SHORTPLUG™ with Guide Bars this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

** SHORTPLUG with Guide Bars cannot be set with this housing/spool combination

300D Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars

SHORTPLUG™ with Guide Bars 300D Spherical 3-WAY™ Tee (300D)

Size		Weight		Part Number
Inches	DN	Lbs.	Kg.	
4	100	5	2	07-1553-0000-61
6	150	11	5	07-1554-0000-61
8	200	21	10	07-1555-0000-61
10	250	33	15	07-1556-0000-61
12	300	55	25	07-1557-0000-61



■ 300D Spherical 3-WAY™ Tee and SHORTPLUG™ with Guide Bars Bulletin Number 2100.017

Use Tables to determine when spool adapters are required to set the SHORTPLUG™ completion plugs with Guide Bars.

4-inch Spool Adapter, 06-1165-0181-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7370-0000	Yes
SHORTSTOPP® 500	08-2143-0000	No
SHORTSTOPP® 500	08-2148-0000	No

6-inch Spool Adapter, 06-1165-0182-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7371-0000	Yes
SHORTSTOPP® 500	08-2144-0000	No

8-inch Spool Adapter, 06-1165-0183-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7372-0000	No
SHORTSTOPP® 500	08-2145-0000	No

10-inch Spool Adapter, 06-1165-0184-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7373-0000	Yes*
SHORTSTOPP® 500	08-2146-0000	No

* To set the SHORTPLUG™ with Guide Bars with this housing, the 07-1586-0000 completion machine with 48-inch travel is required.

12-inch Spool Adapter, 06-1165-0185-00 required to set the SHORTPLUG™ with Guide Bars

Equipment	Housing	Required
SHORTSTOPP® 500	06-7374-0000	No
SHORTSTOPP® 500	08-2147-0000	No



SHORTSTOPP® Plugging/Completion Machine

Manual SHORTSTOPP® Plugging/Completion Machine

Size		Actuator Travel		Overall Length		Weight		Rate of Travel/Revolution		Part Number
Inch	DN	Inch	mm	Inch	mm	Lbs.	Kg.	Inch	mm	
1-1/2 to 12	40 to 100	28	711.2	44-1/2	1130.3	39	18	1/8	3.175	07-1034-0000
1-1/2 to 12	40 to 100	48	1219.2	64-1/2	1638.3	51	23	1/8	3.175	07-1586-0000



M-STOPP™ Fitting

Sizes: 3- through 12-inch



T.D. Williamson, Inc.

Bulletin No: 2130.001.04

Date: October 2002

Cross Indexing No: n/a

Supersedes: 2130.001.03 (6/01)



■ M-STOPP™ Fitting

Description

For over fifty years, T. D. Williamson, Inc., has manufactured high-quality, line intervention fittings that maintain the integrity of pipelines.

M-STOPP™ Fittings are low-profile, full-encirclement fittings designed to provide a means of plugging off pipe with Line Stopper equipment with no interruption of service or blowing gas.

M-STOPP fittings use a hemispherical head design, which allows for either a bottom or side outlet. All fittings are flanged and have a completion plug. M-STOPP Fittings are compatible with Line Stopper equipment.

M-STOPP Fittings can be used for tapping, plugging, plugging with bypass, main relocations, equipment tie-ins, side or bottom outlet connections, line extensions, and for making crossovers.

Features

Available in sizes 3", 4", 6", 8", 10" and 12", the M-STOPP Fittings offer several important advantages:

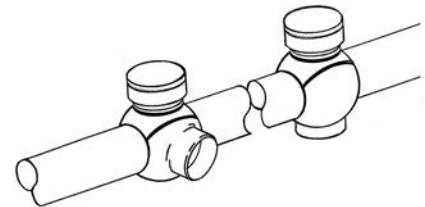
- Low profile. Compact design to permit work at pipeline level and lateral connection at centerline of the main.
- Spherical design. The option of outlet rotation to bottom or side allows for less excavation and less welding for bypasses and laterals.
- M-STOPP fittings are pressure rated to match ASME Class 150, 300 or 400 flanges, as appropriate, see chart page 2.
- Competitive price. Low cost installation of the M-STOPP Fitting results in additional savings.
- Quick delivery. TDW manufactures the M-STOPP Fittings in large quantities and keeps a well-stocked inventory. We can fill your orders promptly.

Options*

T. D. Williamson, Inc., is committed to providing you with the exact product to assist you in planning, budgeting and meeting the specifications for your individual application needs. The following options are available:

- Configured for standard or thin wall main
- ASME Classes 150, 300 and 400
- Special testing available
- Outlet can be capped
- Sizes ranging from 3" through 12"
- Outlet rotation to bottom or side

* For design code options not listed and additional sizes, consult your sales representative.



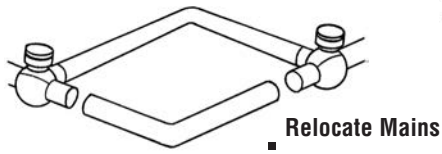
- Unique to the M-STOPP™ Fitting is the outlet rotation to side or bottom.

Patented in the United States and in foreign countries.
ISO 9001 Certified

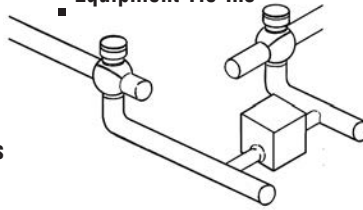
Toll Free

1-888-TDWmSon (839-6766)

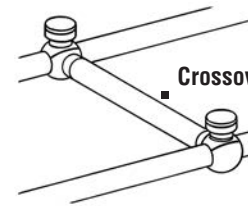
Rotation option allows bottom or side outlet



Equipment Tie-Ins



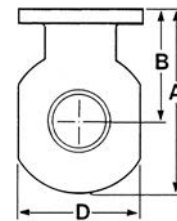
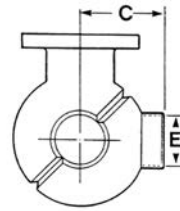
Crossovers



Dimensions and Part Numbers

M-STOPP™ Fitting

All dimensions shown in inches.
 E₁ Size for standard wall outlet. E₂ for thin wall outlet.
 * For steel wedge plugging only.
 ** For use with 9-1/4" valve.
 MAOP per ASME B31.4 at -20 to +108°
 150lb = 285 psi
 300lb = 740 psi
 400lb = 990 psi



Class 150, 285 psi MWP

Maximum Allowable Operating Pressure (in psi) per ASME B31.8 at -20 to +100° F
 Design Factor

Size	A	B	C	D	E1	E2	0.72	0.60	0.50	0.40	E1 Part Number
3"	12.125	6.750	6.750	9.807	3.068	3.260	285	285	285	285	06-9838-0000-00
* 4 x 3"	12.125	6.750	6.750	9.807	3.068	3.260	285	285	285	285	06-9984-0000-00
4"	14.400	8.025	7.671	11.562	4.026	4.260	285	285	285	285	06-8956-0000-02
6"	16.938	9.562	8.500	12.625	6.065	6.357	285	285	285	285	06-9612-0000-00
** 8"	17.0	9.0	8.500	12.812	7.981	8.125	285	285	285	285	06-9603-0000-02
10"	25.250	14.250	12.500	18.438	10.020	10.250	285	285	285	285	06-8959-0000-00
12"	25.250	14.250	12.502	17.000	12.000	12.250	285	285	285	285	06-9476-0000-00
12 x 10"	25.250	14.250	12.391	17.156	10.020	10.250	285	285	285	285	06-8960-0000-00

Class 300, 740 psi MWP

Maximum Allowable Operating Pressure (in psi) per ASME B31.8 at -20 to +100° F
 Design Factor

Size	A	B	C	D	E1	E2	0.72	0.60	0.50	0.40	E1 Part Number
* 4 x 3"	12.437	7.062	6.750	9.807	3.068	3.260	740	740	726	581	06-9840-0000-00
4"	14.650	8.275	7.671	11.562	4.026	4.260	740	740	639	511	06-9619-0000-02
6"	17.250	9.875	8.438	12.825	6.065	6.357	740	740	740	740	06-9621-0000-00
** 8"	17.266	9.266	8.500	13.000	7.981	8.125	740	740	740	740	06-9623-0000-02
10"	25.250	14.250	12.500	18.437	10.020	10.250	740	740	740	740	06-9632-0000-00
12"	25.250	14.250	12.562	17.000	12.000	12.250	740	740	740	740	06-9634-0000-00
12 x 10"	25.250	14.250	12.391	17.156	10.020	10.250	740	740	740	740	06-9635-0000-00

Class 400, 990 psi MWP

Maximum Allowable Operating Pressure (in psi) per ASME B31.8 at -20 to +100° F
 Design Factor

Size	A	B	C	D	E1	E2	0.72	0.60	0.50	0.40	E1 Part Number
* 4 x 3"	12.625	7.250	6.750	9.807	3.068	3.260	990	990	766	613	06-9842-0000-00
4"	14.830	8.455	7.671	11.562	4.026	4.260	990	985	766	613	06-9639-0000-02
6"	17.250	9.875	8.438	12.825	6.065	6.357	990	990	990	945	06-9641-0000-00
** 8"	17.266	9.266	8.594	13.000	7.981	8.125	990	990	990	831	06-9509-0000-02
10"	25.750	14.750	12.500	18.437	10.020	10.250	990	990	990	937	06-9510-0000-00
12"	25.750	14.750	12.625	17.000	12.000	12.250	990	990	990	957	06-9511-0000-00
12 x 10"	25.750	14.750	12.391	17.156	10.020	10.250	990	990	990	937	06-9650-0000-00



M-STOPP™ Weights

Size (in)	Class 150		Class 300		Class 400	
	Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.
3	70	32	70	32	75	34
4	75	34	75	34	75	34
6	170	76	200	90	230	105
8	190	86	250	112	285	120
10	520	228	620	290	865	390
12	555	230	625	290	875	400

Replacement Parts for Class 150 Fittings

Fitting Size (.in)	Completion Cap	Completion Cap Studs and Nuts (No.)	Completion Cap Gasket	Completion Plug Only	O-Ring Seal
3 x 4 x 3	06-8934-0003	00-0203-1200-28 (8) 00-0038-0008-00 (8)	00-6532-0002	06-8934-0002	00-0118-0046
4	06-8934-0003	00-0203-1200-28 (8) 00-0038-0008-00 (8)	00-6532-0002	06-8934-0002	00-0118-0046
6	06-9603-0003	00-0203-1200-32 (8) 00-0038-0008-00 (8)	00-6532-0004	06-9612-0002	00-0119-0028
8	06-9603-0003	00-0203-1200-32 (8) 00-0038-0008-00 (8)	00-6532-0004	06-9603-0002	00-0119-0019
10	06-8937-0003	00-0331-1600-44 (12) 00-0166-0001-00 (24)	00-6532-0005	06-8937-0002	00-0119-0025
12	06-8937-0003	00-0331-1600-44 (12) 00-0166-0001-00 (24)	00-6532-0005	06-8937-0002	00-0119-0025
12x10	06-8937-0003	00-0331-1600-44 (12) 00-0166-0001-00 (24)	00-6532-0005	06-8937-0002	00-0119-0025

Replacement Parts for Class 300 Fittings

Fitting Size (.in)	Completion Cap	Completion Cap Studs and Nuts (No.)	Completion Cap Gasket	Completion Plug Only	O-Ring Seal
3 x 4 x 3	06-9616-0003	00-0203-1200-32 (8) 00-0038-0008-00 (8)	00-6532-0002	06-8934-0002	00-0118-0046
4	06-9616-0003	00-0203-1200-32 (8) 00-0038-0008-00 (8)	00-6532-0002	06-8934-0002	00-0118-0046
6	06-9620-0003	00-0331-1400-46 (12) 00-0951-0009-00 (24)	00-6532-0007	06-9612-0002	00-0119-0028
8	06-9620-0003	00-0331-1400-46 (12) 00-0951-0009-00 (24)	00-6532-0007	06-9603-0002	00-0119-0019
10	06-9631-0003	00-0331-2000-58 (20) 00-0166-0003-00 (40)	00-6532-0005	06-8937-0002	00-0119-0025
12	06-9631-0003	00-0331-2000-58 (20) 00-0166-0003-00 (40)	00-6532-0005	06-8937-0002	00-0119-0025
12x10	06-9631-0003	00-0331-2000-58 (20) 00-0166-0003-00 (40)	00-6532-0005	06-8937-0002	00-0119-0025



Replacement Parts for Class 400 Fittings

Fitting Size (.in)	Completion Cap	Completion Cap Studs and Nuts (No.)	Completion Cap Gasket	Completion Plug Only	O-Ring Seal
3 x 4 x 3	06-9636-0003	00-0203-1400-36 (8) 00-0038-0009-00 (8)	00-6532-0002	06-8934-0002	00-0118-0046
4	06-9636-0003	00-0203-1400-36 (8) 00-0038-0009-00 (8)	00-6532-0002	06-8934-0002	00-0118-0046
6	06-9509-0003	00-0331-1600-52 (12) 00-0166-0001-00 (24)	00-6532-0007	06-9612-0002	00-0119-0028
8	06-9509-0003	00-0331-1600-52 (12) 00-0166-0001-00 (24)	00-6532-0007	06-9603-0002	00-0119-0019
10	06-9510-0003	00-0331-2000-66 (20) 00-0166-0003-00 (40)	00-6532-0005	06-8937-0002	00-0119-0025
12	06-9510-0003	00-0331-2000-66 (20) 00-0166-0003-00 (40)	00-6532-0005	06-8937-0002	00-0119-0025
12x10	06-9510-0003	00-0331-2000-66 (20) 00-0166-0003-00 (40)	00-6532-0005	06-8937-0002	00-0119-0025



Mechanical SHORTSLEEVE™ Fitting

For Steel Pipe, Size: 2-inch



T.D. Williamson, Inc.

Bulletin No: 2110.002.01

Date: February 2000

Cross Indexing No: n/a

Supersedes: 2110.002.00 (2/99)



■ Mechanical SHORTSLEEVE™ Fitting

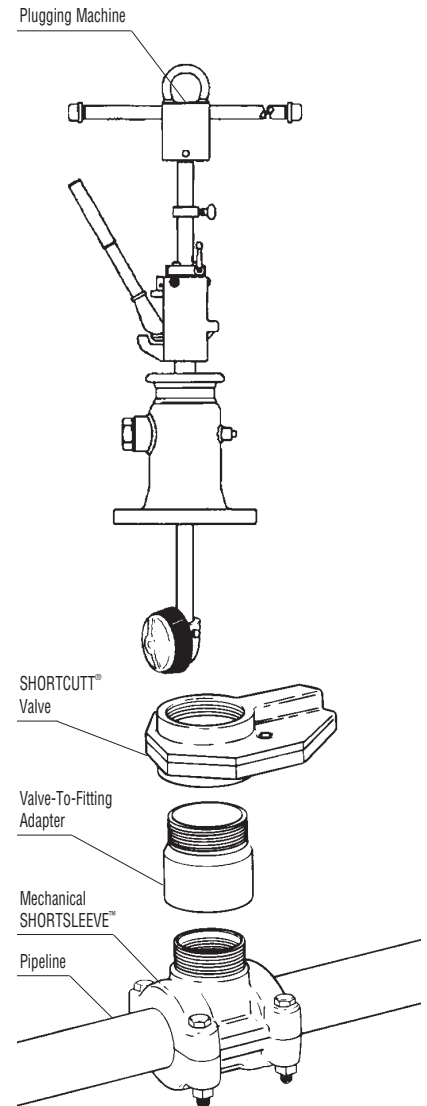
Description

Mechanical SHORTSLEEVE™ Fittings eliminate welding. They are designed for use on 2-3/8" (60 mm) OD steel pipe with the TDW SHORTSTOPP® Plugging Machine system.

Features

Circumferential and longitudinal sealing elements provide a continuous seal around the pipe. Mechanical SHORTSLEEVE™ Fittings can also be used without plugging machines to install branch connections. The maximum recommended operating pressure is 175 psi (12 bar) @ 150°F (66°C). The maximum recommended operating temperature is 180°F (82°C) @ 165 psi (11 bar). When used with the SHORTSTOPP® 60 Plugging Machine, the maximum recommended plugging pressure is 60 psi (4 bar).

■ Typical Setup



ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)

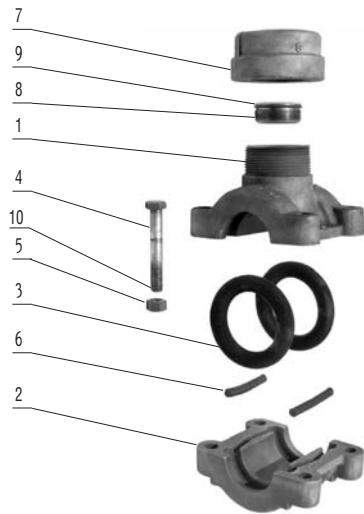


Mechanical SHORTSLEEVE™ Fittings For 2-inch Steel Pipe

2" Mechanical SHORTSLEEVE™ Fittings

Spare SHORTPLUG™ O-ring
00-0117-0010
Valve-To-Fitting Adapter (required)
06-1384-0001

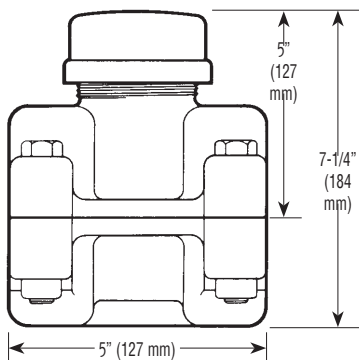
	Part Number	Lbs.	Kg.
Complete with cap, O-ring, steel plug and cast-iron fitting	26-0228-0000	18-3/4	9
Items 1-10 below			



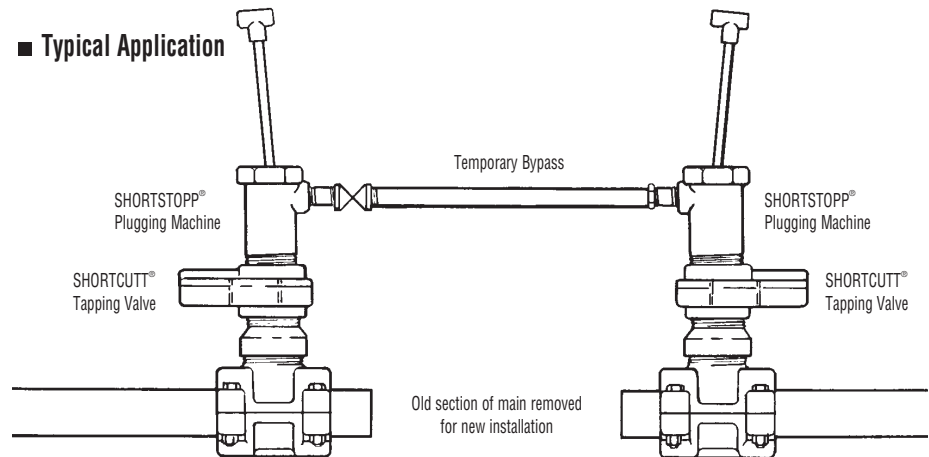
Parts and Descriptions

Item	Description	Quantity	Part Number
1	Split tee, upper half	1	26-0228-0001
2	Split tee, lower half	1	06-1288-0002
3	Split O-ring seal	4	00-1458-0011
4	Hex bolt	4	00-0681-0800-28
5	Square nut	4	00-1544-0005
6	Seal	2	00-1459-0008
7	Pipe cap	1	00-1054-0010
8	Shortplug	1	07-1745-0001
9	O-ring	1	00-0117-0010
10	Washer	4	00-0435-0006

■ Dimensions



■ Typical Application



Mechanical SHORTSLEEVE™ Fitting

for Cast Iron Pipe, Sizes: 4" - 12"



T.D. Williamson, Inc.

Bulletin No: 2110.001.01

Date: February 2000

Cross Indexing No: n/a

Supersedes: 2110.001.00 (2/99)



■ Mechanical SHORTSLEEVE™ Fitting

Description

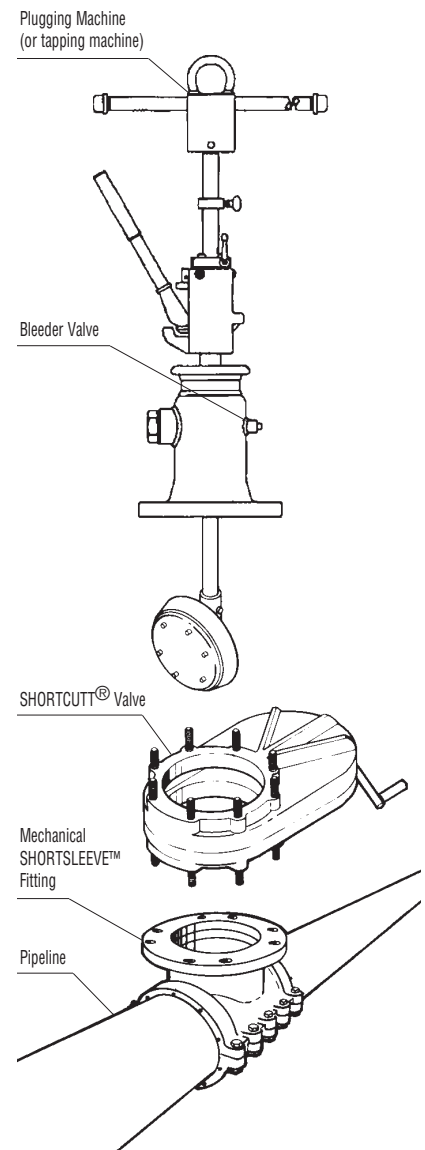
Mechanical SHORTSLEEVE™ Fittings are designed for use on 4" (DN 100) through 12" (DN 300) cast iron pipe. They may be used with SHORTSTOPP® Plugging Equipment to repair or replace a damaged section of cast iron main. Mechanical SHORTSLEEVE™ Fittings can also be used without the plugging machine as a tapping fitting to install branch connections. Fittings can be purchased with or without blind flange, studs, nuts, gaskets and completion plug.

Circumferential and longitudinal sealing elements provide a continuous seal around the pipe.

Features

The maximum recommended operating pressure is 175 psi (12 bar) at 150°F (66°C). The maximum recommended operating temperature is 180°F (82°C) at 165 psi (11 bar). When used with SHORTSTOPP® Plugging Machines, the maximum recommended pressure and temperature should be limited to that of the plugging equipment, but not exceeding that of the fitting itself as shown above. Flanges conform to ASME Class 125.

■ Typical Setup



ISO 9001 Certified

Toll Free

1-888-TDWmSon (839-6766)



Mechanical SHORTSLEEVE™ Fittings

Complete with Blind Flange, Studs, Nuts, Gasket and Completion Plug

4" through 12" (DN 100 - DN 300) Mechanical SHORTSLEEVE™ Fitting

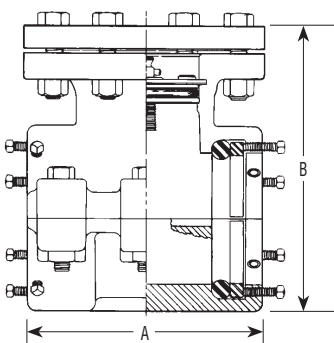
Size		Weight		Pipe OD +/- 0.060" (1.5 mm)		Part Number
Inches	DN	Lbs.	Kg.	Inches	mm	
4	100	88	40	4.80	122	06-6586-0000
6	150	148	67	6.90	175	06-6587-0000
8	200	212	96	9.05	230	06-6588-0000
10	250	290	132	11.10	282	06-6589-0000
12	300	413	187	13.20	335	06-6590-0000

Excludes Blind Flange, Studs, Nuts, Gasket and Completion Plug

4" through 12" (DN 100 - DN 300) Mechanical Tapping Fitting

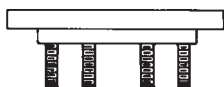
Size		Weight		Pipe OD +/- 0.060" (1.5 mm)		Part Number
Inches	DN	Lbs.	Kg.	Inches	mm	
4	100	63	28	4.80	122	06-7263-0000
6	150	116	53	6.90	175	06-7280-0000
8	200	127	58	9.05	230	06-7330-0000
10	250	176	80	11.10	282	06-7331-0000
12	300	280	127	13.20	335	06-7332-0000

Note: Mechanical Tapping Fittings are designed for use on cast iron pipe only.



Dimensions

Size		A		B		Min. Thru-bore	
Inches	DN	Inches	mm	Inches	mm	Inches	mm
4	100	9-1/2	241	11-3/8	289	3-29/32	99
6	150	11-7/8	301	13-3/8	340	5-29/32	150
8	200	14-7/16	367	16-3/4	425	7-13/16	198
10	250	16-7/8	428	18-3/8	467	9-13/16	249
12	300	19-15/16	506	21-3/4	552	11-13/16	300



The 8" x 6" (DN 200 x DN 150) and the 12" x 10" (DN 300 x DN 250) are used to adapt valve to next smaller size Mechanical SHORTSLEEVE™.

Valve-to-Fitting Adapters

Size	Part Number
8" x 6" (DN 200 x DN 150)*	06-1022-0000
12" x 10" (DN 300 x DN 250)	06-1024-0000

*To be used on a SHORTSTOPP® 60 Plugging Machine only.
If 4"-12" Jackscrew Actuator (08-0940-0000) is to be used, a spool adapter (06-1165-0043) is required.

RES-Q® Composite Wrap

Products and Services for Pipelines, Sizes: 2- through 60-inch



T.D. Williamson, Inc.

Bulletin No: 5300.003.01

Date: March 2008

Cross Indexing No: n/a

Supersedes: 5300.003.00 (02/08)



■ **RES-Q® Composite Wrap**
Installation services and customer training available

Description

■ Permanent Rehabilitation

RES-Q® Composite Wrap offers a permanent rehabilitation solution for liquid and gas pipelines with external corrosion, gouges, grooves, arc burns and dents. A high-strength carbon fiber and epoxy system, RES-Q Composite Wrap utilizes a stitched, bidirectional carbon fabric to provide superior structural reinforcement in the hoop and axial directions. Capable of restoring a pipeline to its design pressure without shutting down operation, RES-Q Composite Wrap is a flexible in-service alternative to repair clamps, welded sleeves and pipe replacement.

■ Product Innovation

The result of T.D. Williamson, Inc.'s extensive pipeline rehabilitation experience, RES-Q Composite Wrap addresses the needs of both the pipeline operator and composite wrap installer. Featuring stronger materials and improved performance based on years of customer feedback, RES-Q Composite Wrap truly represents the next generation of carbon composite wrap.

■ Certified Performance

Extensive testing validates the significant benefits of using RES-Q Composite Wrap where high pressure and longer service are anticipated. Thoroughly tested by accredited third-party laboratories, RES-Q Composite Wrap meets the requirements of international composite standards ASME PCC-2 and ISO 24817, liquid and gas pipeline standards ASME B31.4/B31.8, as well as U.S. Department of Transportation standards.

■ Solution Assessment

The RES-Q Composite Wrap solution assessment compiles information such as pipe diameter, material grade, wall thickness, design pressure, design temperature, size of anomalies, and minimum and maximum operating pressure and temperature. RES-Q ProCalc™ software analyzes this data to determine the number of wraps and repair length required for straight pipeline. As part of the solution assessment, TDW offers a host of rehabilitation options for customers to select.

Features

■ Improved Formulations

While maintaining no volatile solvents in a 100% reactive system, improved RES-Q Composite Wrap formulations provide a two-year shelf life. The resin formulation enhances the long-term strength of the epoxy matrix.

■ Simplicity and Consistency

All RES-Q Composite Wrap resins and hardeners are packaged in metal containers for reliability during transportation. All materials specified for a RES-Q Composite Wrap solution are pre-measured, pre-cut and packaged for field installation. RES-Q Composite Wrap utilizes only one epoxy product to both wet the carbon fabric and to bond the wrap to the pipeline. Improved installation techniques ensure a thoroughly wetted carbon fabric and more consistent composite application. The RES-Q Composite wrap is recommended to be applied on substrate surface temperatures between 40 and 120° F with a maximum design temperature of 165° F.

■ Enhanced Physical Properties

Thanks to material advances, RES-Q Composite Wrap results in fewer plies and reduced thickness because of greater strength, higher modulus of elasticity and lower creep. The fiberglass barrier in each restoration kit provides a positive layer of insulation between the pipeline and carbon fabric. This stitched carbon fabric provides efficient load transfer from the pipeline to individual fibers while also improving long-term strength.

■ Versatility

RES-Q Composite Wrap is a versatile solution to pipeline defects where clearance between pipelines is limited or width of excavation is narrow due to job site restrictions. RES-Q Composite Wrap can be installed horizontally and vertically, and it can conform to straight pipeline, elbows, and even complex systems such as reducers or tees.

Options

■ Customization

Each customized RES-Q Composite Wrap solution is based on pipeline configuration and current defect conditions. System design and fabric width options facilitate installation and provide uniform applications for pipeline components like welds and bends. Standard, elbow and tee wraps are available to meet virtually any need.

■ Training

Expert training for field technicians and contractors is offered at our state-of-the-art facility in Tulsa, Okla., U.S.A., or at customer locations. Composite wrap training can be incorporated with other covered tasks offered by the TDW LineMaster™ training program.

■ Installation

Drawing upon the accumulated knowledge and experience of more than 200 certified technicians around the globe, TDW is proud to offer RES-Q Composite Wrap installation.

ISO 9001 Certified

Toll Free

1-888-829-1988

1-888-TDWmSon (839-6766)



RES-Q® Composite Wrap

R Q - 3 0 X X - X X X X - 0 0

Pipe Size (inches)	Pipe Size (mm)*	Pipe Size (inches)	Pipe Size (mm)*	Application	Number of Plys	Wrap Width (inches)*
02	50	24	600	0 = Standard (Straight)	2 = Two Ply Kit	00 = For Elbows and Tees
03	80	26	650	2 = Elbow	4 = Four Ply Kit	12 = For Standard Straight Wrap (12-inch)
04	100	28	700	3 = Tee	6 = Six Ply Kit	
06	150	30	750		8 = Eight Ply Kit	Other widths are available, consult factory
08	200	32	800			
10	250	34	850			
12	300	36	900			
14	350	38	1000			
16	400	42	1050			
18	450	48	1200			
20	500	56	1400			
22	550	60	1500			

Note: All elbow kits are four ply.
All tee kits are six ply.

Example: RQ-3024-0412-00 is a four ply kit for 24-inch standard pipe with a standard 12-inch wrap width.

*Metric equivalents provided for reference only. Pipe width must be expressed in inches for purposes of part number designation.

Putty

Pipe Coverage	Part Number
10 cubic inches	RQ-0000-0010-00
20 cubic inches	RQ-0000-0020-00
30 cubic inches	RQ-0000-0030-00

Putty is used to fill large voids created by severe corrosion, gouges, grooves or dents. Also used to taper uneven welds and misaligned pipes.

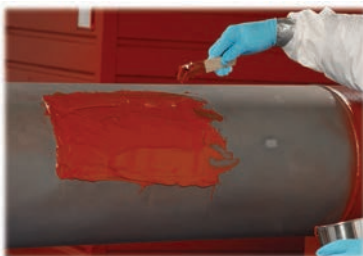
Identification Banding Kit

Pipe Size	Part Number
2- through 12-inch	00-8716-0001-00
14- through 30-inch	00-8716-0002-00
32- through 60-inch	00-8716-0003-00

Kit includes two ID bands, one for each side of the repair.

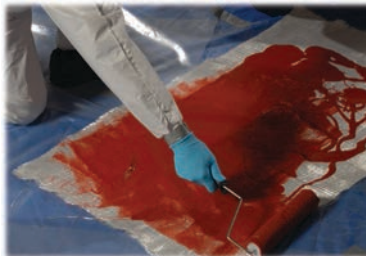
Composite Wrap 3-Stage Installation Overview†

1. Prepare Pipeline



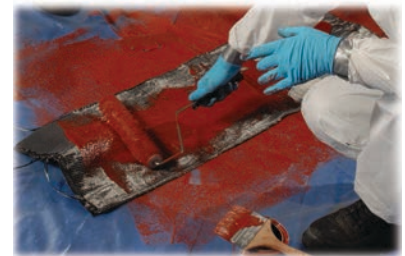
Fill void with putty.

2. Barrier Fabric Preparation



Wet barrier fabric with epoxy.

3. Restore Pipeline



Wet carbon fabric with epoxy.



Apply epoxy to pipeline.



Wrap barrier fabric on pipeline.



Wrap carbon fabric on pipeline.

† The above does not reflect full installation procedures. For full installation instructions, refer to instructions provided with RES-Q® Composite Wrap Kit.

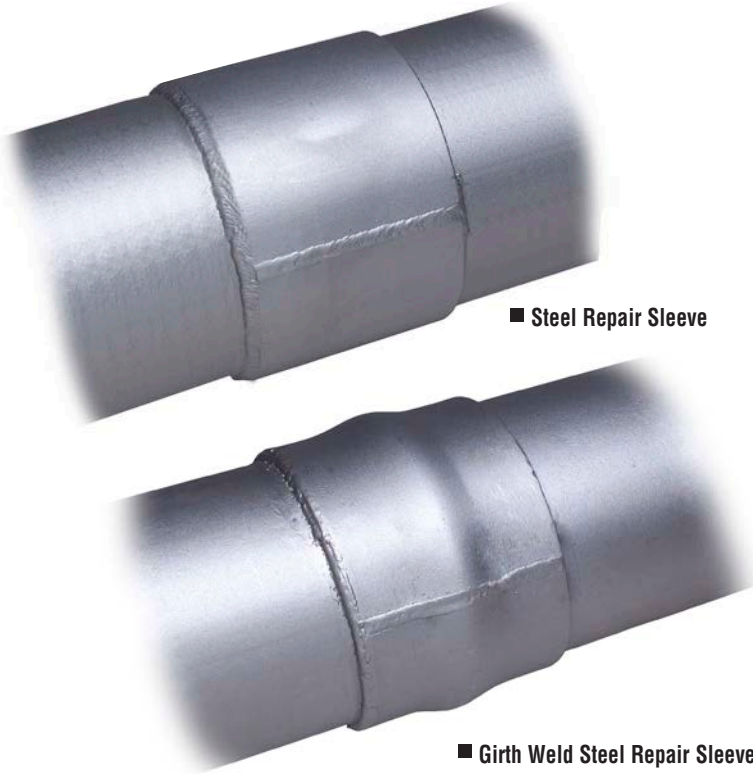


Steel Repair Sleeves

Half-Sole Segments, Sizes: 2- through 48-inch



T.D. Williamson
Bulletin No: 7300.002.04
Version: 08.2013
Cross Indexing No: n/a
Supersedes: 7300.002.03 (02.2007)



■ Steel Repair Sleeve

■ Girth Weld Steel Repair Sleeve

Description

T.D. Williamson, Inc. provides a variety of alternatives to pipeline maintenance needs. The Steel Repair Sleeve is one such option. With the Steel Repair Sleeve, repairs can be made without shutting down the pipeline. Steel Repair Sleeves are available in a variety of sizes, from 2- through 48-inch.

The Steel Repair Sleeves are sold in the Half-Sole configuration. The Half-Sole segment can be used as a pad or cradle while a pair of Half-Sole segments can be used to create a full-encirclement steel sleeve. Steel Repair Sleeves may be made from rolled plate material. This maintenance option is ideal to repair defects in pipelines.

There are four types of material available for the Steel Repair Sleeves, two pressure-rated steels and

two structural-grade steel. The pressure-rated steel sleeves can be used to repair leaking and non-leaking defects while the structural-grade steel sleeves can function as reinforcement for a defective area.

Features

The Steel Repair Sleeves can be used for internal and external corrosion, gouges, dents, grooves, arc burns, cracks, defective girth welds, laminations and leaks.

Pressure containing sleeves feature a wall thickness equal to or greater than required for the maximum allowable operating pressure or the full strength of the pipe being repaired. The Steel Repair Sleeve material is certified and the carbon equivalent (long formula)

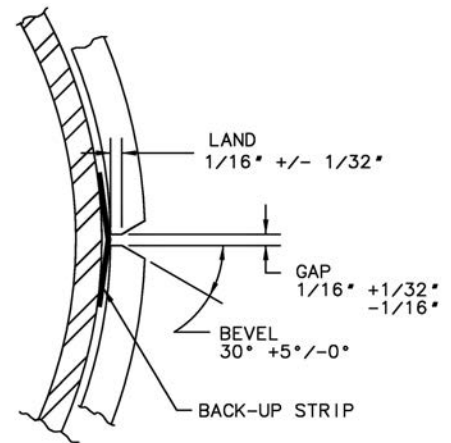
will not exceed 0.45 percent. Each half-sole segment comes with one pre-crimped back-up strip.

Steel Repair Sleeves can be used as pads or cradles for above ground piping, drain tile supports and patches (segments in 90° and 180° arcs, from 6-inches to 10 feet in length are available as specials).

Each Steel Repair Sleeve has standard bevels with a back-up strip and material certifications. Sleeve ends are square cut. Back-up strips are not included with Standard Girth Weld Steel Repair Sleeves but are available as special order.

NOTE: Steel Repair Sleeves are sold as single half-sole segments.

Girth Weld Steel Repair Sleeves are only sold as sets of two, half-sole segments.



Toll Free
1-888-TDWmSon (839-6766)



Steel Repair Sleeves Half-Sole Segments

RS - XXXX - XXXX - XX

Pipe Size (in inches)	Material	Wall Thickness	Finish
02" 24"	00 = ASTM A516 GR 70 - Pressure Vessel Grade	1 = .250-inch	00 = Unpainted
03" 26"	01 = ASTM A537 CL 1 - Pressure Vessel Grade	3 = .375-inch	99 = Painted
04" 28"	02 = ASTM A572 GR 50 - Structural Grade	5 = .500-inch	
06" 30"	03 = ASTM A572 GR 65 - Structural Grade	7 = .625-inch	
08" 32"		9 = .750-inch	
10" 34"			
12" 36"			
14" 40"			
16" 42"			
18" 44"			
20" 46"			
22" 48"			

Pipe Size	Sleeve Length
2 - 3-1/2	5-feet
4 - 12	10-feet
14 - 16	8-feet
All sizes over 16-inch	10-feet

Pipe Size (inches)	Available Thickness (inches)				
	0.188	0.250	0.312	0.375	0.500
2 - 4	X	X			
6		X	X		
8 - 26		X	X	X	X
30 - 48				X	X

Available thicknesses marked with "X"

Example: RS-3001-3000-00 is a 30" Half-Sole Steel Repair Sleeve with ASTM A537 CL 1 material, wall thickness of .375-inch, standard bevel with back-up strip, 10 feet long with a painted finish.

NOTE: Steel Repair Sleeves are sold as single half-sole segments.

Girth Weld Steel Repair Sleeves Full-encirclement Sets

RG - XXXX - XXXX - XX

Pipe Size (in inches)	Material	Wall Thickness	Finish
02" 24"	00 = ASTM A516 GR 70 - Pressure Vessel Grade	0 = .188-inch	00 = Unpainted - No Bevel
03" 26"	01 = ASTM A537 CL 1 - Pressure Vessel Grade	1 = .250-inch	01 = Unpainted - With Bevel
04" 28"	02 = ASTM A572 GR 50 - Structural Grade	3 = .375-inch	02 = Painted - No Bevel
06" 30"	03 = ASTM A572 GR 65 - Structural Grade	5 = .500-inch	03 = Painted - With Bevel
08" 32"		7 = .625-inch	
10" 34"			
12" 36"			
14" 40"			
16" 42"			
18" 44"			
20" 46"			
22" 48"			

Pipe Size	Sleeve Length
2	4-inches
3	5-inches
4 - 8	6-inches
10	8-inches
12	10-inches
14 - 20	11.5-inches
All sizes over 20	12-inches

Pipe Size (inches)	Available Thickness (inches)				
	0.188	0.250	0.375	0.500	0.625
2	X				
3-6		X			
8 - 30			X		
36 - 48			X	X	
20 - 48					X

Available thicknesses marked with "X"

Example: RG-3001-3000-02 is a set of 30" Girth Weld Steel Repair Sleeves with ASTM A537 CL 1 material, wall thickness of .375-inch, standard bevel, 12 inches long with unpainted finish.

NOTE: Girth Weld Steel Repair Sleeves are only sold as sets of two, half-sole segments.

Freeze Plugging Service

by TDW Services, Inc.



T.D. Williamson, Inc.

Bulletin No: **1300.712.01**
Date: June 2005
Cross Indexing No: n/a
Supersedes: 1300.712.00 (10/01)



The Ice Plug is created in the pipe, forming a seal.

Freezing the pipeline

Description

Cost-effective methods of repairing and maintaining piping systems and pipelines can be difficult to find. If a line is out of commission for too long, the money and time lost can be hard to recover. T. D. Williamson, Inc., has a wise alternative to make repairs quickly and efficiently.

TDW Freeze Plugging Service, provides this service, allowing pipe maintenance or line modification without shutting down a vital segment of a company's plant processes.

Establishing a solid freeze plug and maintaining the ice plug for the duration of the project is the key to successful pipe freezing. Freeze Service's solid plugs are constantly monitored and designed to withstand up to 8,000 psi (560 bar) line pressure, or 225,000 pounds (1,001,250 N) of force.

Features

Freeze plugging features include:

- No need to shut down plant processes to perform maintenance or line modifications.
- Job completion without draindown or refill time and no loss of fluids.
- Freezing a portion of the line's fluid to create a solid freeze plug.
- Continuous monitoring of plugs to withstand up to 8,000 psi (560 bar) line pressure.
- Standard freeze plugs range in size from 1/2 inch to 48-inches (13 mm to 1220 mm) outside diameter.

All Freeze Service crews are nuclear trained and qualified. They are experienced and work as teams, with safety as their first priority. Each project is analyzed and coordinated with the project engineer. Certified procedures are implemented to ensure quality control throughout the pipe freezing operation..



OSHA & SNSI Qualified

E-mail: freeze@tdwilliamson.com
www.piperefreezing.com

Toll Free

1-800-828-1988

1-888-TDWmSon (839-6766)



Freeze Plugging Service

Pipe freezing can be used in most industrial and commercial applications, including:

- Chemical and petrochemical plants
- Nuclear power plants
- Water and sewage treatment
- Hotels and apartment complexes
- Office buildings
- Refineries
- Fossil fuel power plants
- Hospitals and institutions
- Malls and shopping centers
- Paper mills
- Fire protection systems
- Schools
- And more ...

A variety of pipe materials and conditions *also can be used:*

- Carbon steel
- Cast and ductile iron
- Copper
- 1/2- to 48-inch (13 mm to 1220 mm) O.D.
- Stainless steel
- Aluminum
- Lead
- Vertical, horizontal and inclined
- Transite
- Coated and lined pipe
- Titanium
- Out of round
- And more ...

A wide range of fluids also can be considered:

- Water and treated water
- Brine
- Glycols
- Chemicals
- Sewage
- Oils and petroleum products
- Heavier hydrocarbons
- Slurries
- And more ...

Typical Pipe Freezing Times*

	Pipe Size						
Inches	1/2	6	8	12	14	20	over 20
Millimeters	13	150	200	300	350	500	over 500
Approx. Freeze Time (hrs.)	0.1	0.8	1.5	3.0	4.0	8.0	*

* Contact your TDW representative for typical freeze times for your specific application.

Typical 1/2- through 4-inch Freeze Operation



Apply the freeze jacket.



Connect and activate the coolant.



Monitor the temperature reduction.



Freezing takes place.



Pressure is relieved, and pipeline repairs can be made.



Work is complete and the ice plug is thawed.

Typical 5- through 12-inch Freeze Operation



Apply the freeze jacket.



Connect the coolant.



Activate the freeze plugging process.



Monitor the temperature reduction



Freezing takes place.



Diagonal frostline indicates ice plug is forming. When freezing is complete, repairs can be made.