

TopSTOPP™ & ValveSTOPP™ Fittings



T.D. Williamson

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ASME B31.3 / B31.8 / CSA Z662 CAT I

Sizes: 1, 1.25, and 2-inches



■ TopSTOPP Fitting



■ ValveSTOPP Fitting

Description

TDW's new TopSTOPP™ and ValveSTOPP fittings are used as branching fittings, typically off larger main lines. The fitting body is similar to the 3-WAY™ TOR fitting however the internal parts are much different. These fittings have integral plugs inside the fitting body that can be used to isolate the branch connection of the fitting.

The TopStopp fitting comes with a driver and a key that allows the operator to open or close the branch outlet from the surface of the ground, eliminated the need for excavation.

The ValveStopp fitting has the same internal plug and has the same application but requires the operator to actuate the outlet plug by accessing the top of the completion cap on the fitting.

These fittings are designed for hot tap tie-ins eliminating the need to leave a valve on the connection. Common applications include farm taps, customer service lines, gauge points, regulator sense lines, and fuel gas lines.

Fittings are available in three sizes:
1, 1.25, and 2-inch (DN25, DN32, and DN50).

Features

These fittings can be used with a T-101 or TD-1XX Drilling Machine.

If tapping a 1- or 1.25-inch fitting a valve-to-fitting adapter, PN 12392662, is necessary and for a 2-inch application, PN 12392663, is used.

Fittings and associated products are shipped rapidly to meet customer needs. Contact your local TDW representative for pricing and availability.



TopSTOPP Fittings

ValveSTOPP Fittings

Size		
Inches	DN	Part Number
1	25	12392738
1.25	32	12392739
2	50	12392740

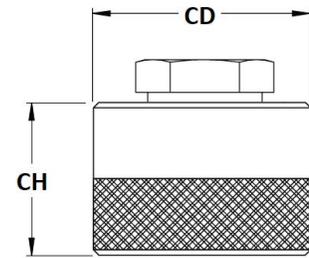
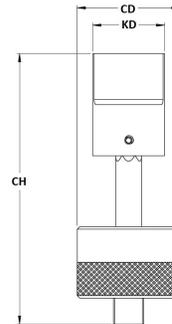
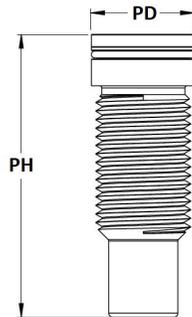
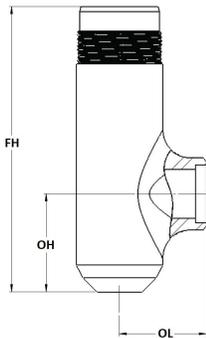
Size		
Inches	DN	Part Number
1	25	12392735
1.25	32	12392736
2	50	12392737

ValveSTOPP™ Dimensions

	Size		CD		CH		KD		PD		PH		FH		OH		OL		A	
	Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
12392735	1	25	2.500	63.5	2.000	50.8	N/A	N/A	1.503	38.2	4.000	101.6	6.603	167.7	2.500	63.5	2.125	54.0	6.524	165.7
12392736	1.25	32	2.500	63.5	2.000	50.8	N/A	N/A	1.503	38.2	4.125	104.8	6.541	166.1	2.250	57.2	2.000	50.8	6.416	163.0
12392737	2	50	3.000	76.2	2.000	50.8	N/A	N/A	1.863	47.3	4.438	112.7	7.448	189.2	2.562	65.1	2.188	55.6	7.229	183.6

TopSTOPP™ Dimensions

	Size		CD		CH		KD		PD		PH		FH		OH		OL		A	
	Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
12392738	1	25	2.500	63.5	6.625	168.3	1.75	44.45	1.503	38.2	4.000	101.6	6.603	167.7	2.500	63.5	2.125	54.0	6.524	165.7
12392739	1.25	32	2.500	63.5	6.625	168.3	1.75	44.45	1.503	38.2	4.125	104.8	6.541	166.1	2.250	57.2	2.000	50.8	6.416	163.0
12392740	2	50	3.000	76.2	6.625	168.3	1.75	44.45	1.863	47.3	4.438	112.7	7.448	189.2	2.562	65.1	2.188	55.6	7.229	183.6



Spare Parts

Description	Size (inches)	Part Number
ValveStopp Cap Assy	1 and 1.25	12392599
ValveStopp Cap Assy	2	12392600
TopStopp Cap Assy	1 and 1.25	12392602
TopStopp Cap Assy	2	12392603
Plug Assembly	1	12392577
Plug Assembly	1.25	12392578
Plug Assembly	2	12394386
ValveStopp Driver Key Assy*		12392819

*includes Driver, Key, and Set Screw



ValveSTOPP Fittings

Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi)														
Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F													Per ASME B31.3 at -20°F to 100°F	
12392735 1in BRANCH CONNECTION	Nominal Pipeline Size	Pipe OD (in)	0.72 DF	Pressure	0.6 DF	Pressure	0.5 DF	Pressure	0.4 DF	Pressure	0.2 DF	Pressure		
	1.25	1.66	0.049	1480	0.059	1480	0.071	1480	0.088	1480	0.116	970	0.063	1480
	1.5	1.9	0.056	1480	0.067	1480	0.081	1480	0.101	1480	0.132	970	0.072	1480
	2	2.375	0.070	1480	0.084	1480	0.101	1480	0.126	1480	0.165	970	0.089	1480
	2.5	2.875	0.085	1480	0.102	1480	0.122	1480	0.152	1480	0.200	970	0.107	1480
	3	3.5	0.103	1480	0.124	1480	0.148	1480	0.185	1480	0.243	970	0.130	1480
	3.5	4	0.118	1480	0.141	1480	0.170	1480	0.212	1480	0.278	970	0.148	1480
	4	4.5	0.133	1480	0.159	1480	0.191	1480	0.238	1480	0.312	970	0.166	1480
>4*	*	*	1480	*	1480	*	1480	*	1480	*	970	CONSULT ENGINEERING		

Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi)														
Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F													Per ASME B31.3 at -20°F to 100°F	
12392736 1.25in BRANCH CONNECTION	Nominal Pipeline Size	Pipe OD (in)	0.72 DF	Pressure	0.6 DF	Pressure	0.5 DF	Pressure	0.4 DF	Pressure	0.2 DF	Pressure		
	1.5	1.9	0.056	1480	0.067	1480	0.081	1480	0.101	1480	0.132	970	0.072	1480
	2	2.375	0.070	1480	0.084	1480	0.101	1480	0.126	1480	0.165	970	0.089	1480
	2.5	2.875	0.085	1480	0.102	1480	0.122	1480	0.152	1480	0.200	970	0.107	1480
	3	3.5	0.103	1480	0.124	1480	0.148	1480	0.185	1480	0.243	970	0.130	1480
	3.5	4	0.118	1480	0.141	1480	0.170	1480	0.212	1480	0.278	970	0.148	1480
	4	4.5	0.133	1480	0.159	1480	0.191	1480	0.238	1480	0.312	970	0.166	1480
	5	5.563	0.164	1480	0.197	1480	0.236	1480	0.295	1480	0.386	970	0.204	1480
>5*	*	*	1480	*	1480	*	1480	*	1480	*	970	CONSULT ENGINEERING		

Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi)														
Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F													Per ASME B31.3 at -20°F to 100°F	
12392737 2in BRANCH CONNECTION	Nominal Pipeline Size	Pipe OD (in)	0.72 DF	Pressure	0.6 DF	Pressure	0.5 DF	Pressure	0.4 DF	Pressure	0.2 DF	Pressure		
	2.5	2.875	0.085	1480	0.102	1480	0.122	1480	0.143	1390	0.143	695	0.099	1480
	3	3.5	0.103	1480	0.124	1480	0.148	1480	0.174	1390	0.174	695	0.120	1480
	3.5	4	0.118	1480	0.141	1480	0.170	1480	0.199	1390	0.199	695	0.137	1480
	4	4.5	0.133	1480	0.159	1480	0.191	1480	0.224	1390	0.224	695	0.154	1480
	5	5.563	0.164	1480	0.197	1480	0.236	1480	0.277	1390	0.277	695	0.190	1480
	6	6.625	0.195	1480	0.234	1480	0.281	1480	0.329	1390	0.329	695	0.225	1480
	8	8.625	0.254	1480	0.304	1480	0.365	1480	0.429	1390	0.429	695	0.293	1480
>8*	8.625*	*	1480	*	1480	*	1480	*	1390	*	695	CONSULT ENGINEERING		

The Maximum Working Pressures listed in this Table are valid for the stated pipeline size provided the pipeline minimum yield strength is greater than or equal to 35ksi and the pipeline wall thickness is greater than or equal to the value listed in this Table. Contact TDW Engineering for applications involving pipeline minimum yield strengths less than 35ksi or pipeline wall thicknesses less than those stated above.

* Exempt from reinforcement calculations per Table 404.3.4-1 of ASME B31.4 or Table B31.4.2-1 of ASME B31.8 or Table 4.6 of CSA Z662.

† Maximum Working Pressure values assume 35ksi minimum yield strength for pipeline (header) material.



TopSTOPP Fittings

Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi)														
Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F														
12392738 1in BRANCH CONNECTION	Nominal Pipeline Size	Pipe OD (in)	0.72 DF	Pressure	0.6 DF	Pressure	0.5 DF	Pressure	0.4 DF	Pressure	0.2 DF	Pressure	Per ASME B31.3 at -20°F to 100°F	
	1.25	1.66	0.049	1480	0.059	1480	0.071	1480	0.088	1480	0.116	970	0.063	1480
	1.5	1.9	0.056	1480	0.067	1480	0.081	1480	0.101	1480	0.132	970	0.072	1480
	2	2.375	0.070	1480	0.084	1480	0.101	1480	0.126	1480	0.165	970	0.089	1480
	2.5	2.875	0.085	1480	0.102	1480	0.122	1480	0.152	1480	0.200	970	0.107	1480
	3	3.5	0.103	1480	0.124	1480	0.148	1480	0.185	1480	0.243	970	0.130	1480
	3.5	4	0.118	1480	0.141	1480	0.170	1480	0.212	1480	0.278	970	0.148	1480
	4	4.5	0.133	1480	0.159	1480	0.191	1480	0.238	1480	0.312	970	0.166	1480
	>4*	*	*	1480	*	1480	*	1480	*	1480	*	970	CONSULT ENGINEERING	

Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi)														
Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F														
12392739 1.25in BRANCH CONNECTION	Nominal Pipeline Size	Pipe OD (in)	0.72 DF	Pressure	0.6 DF	Pressure	0.5 DF	Pressure	0.4 DF	Pressure	0.2 DF	Pressure	Per ASME B31.3 at -20°F to 100°F	
	1.5	1.9	0.056	1480	0.067	1480	0.081	1480	0.101	1480	0.132	970	0.072	1480
	2	2.375	0.070	1480	0.084	1480	0.101	1480	0.126	1480	0.165	970	0.089	1480
	2.5	2.875	0.085	1480	0.102	1480	0.122	1480	0.152	1480	0.200	970	0.107	1480
	3	3.5	0.103	1480	0.124	1480	0.148	1480	0.185	1480	0.243	970	0.130	1480
	3.5	4	0.118	1480	0.141	1480	0.170	1480	0.212	1480	0.278	970	0.148	1480
	4	4.5	0.133	1480	0.159	1480	0.191	1480	0.238	1480	0.312	970	0.166	1480
	5	5.563	0.164	1480	0.197	1480	0.236	1480	0.295	1480	0.386	970	0.204	1480
	>5*	*	*	1480	*	1480	*	1480	*	1480	*	970	CONSULT ENGINEERING	

Minimum Required Pipeline Wall Thickness† (in inches) For Listed Design Factor (DF) and Maximum Working Pressure (in psi)														
Per ASME B31.4, ASME B31.8 and CSA Z662 CAT I at -20°F to 250°F														
12392740 2in BRANCH CONNECTION	Nominal Pipeline Size	Pipe OD (in)	0.72 DF	Pressure	0.6 DF	Pressure	0.5 DF	Pressure	0.4 DF	Pressure	0.2 DF	Pressure	Per ASME B31.3 at -20°F to 100°F	
	2.5	2.875	0.085	1480	0.102	1480	0.122	1480	0.143	1390	0.143	695	0.099	1480
	3	3.5	0.103	1480	0.124	1480	0.148	1480	0.174	1390	0.174	695	0.120	1480
	3.5	4	0.118	1480	0.141	1480	0.170	1480	0.199	1390	0.199	695	0.137	1480
	4	4.5	0.133	1480	0.159	1480	0.191	1480	0.224	1390	0.224	695	0.154	1480
	5	5.563	0.164	1480	0.197	1480	0.236	1480	0.277	1390	0.277	695	0.190	1480
	6	6.625	0.195	1480	0.234	1480	0.281	1480	0.329	1390	0.329	695	0.225	1480
	8	8.625	0.254	1480	0.304	1480	0.365	1480	0.429	1390	0.429	695	0.293	1480
	>8*	8.625*	*	1480	*	1480	*	1480	*	1390	*	695	CONSULT ENGINEERING	

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† Maximum Working Pressure values assume 35ksi minimum yield strength for pipeline (header) material.