

Stopple® & Stopple® Plus Fittings

with the ProSeries™ Advantage

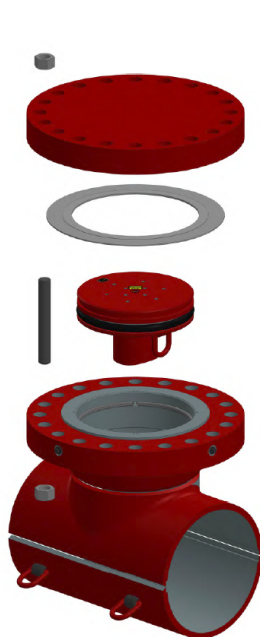
Sizes 4- to 36-inch, Class 600



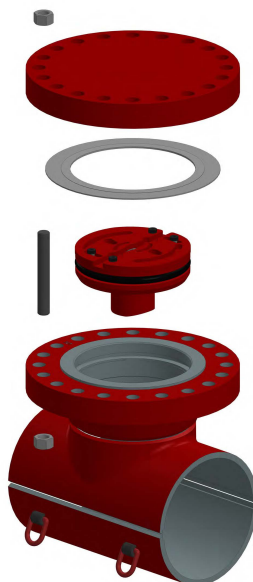
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STOPPLE Fitting



STOPPLE Plus Fitting

Description

STOPPLE® and STOPPLE® Plus full-branch split tee fittings Class 600 with the ProSeries Advantage are designed for use with TDW STOPPLE® and STOPPLE® Train plugging system (except 4-inch). They meet ASME B31.3/B31.4./B31.8 and CSA Z662 CAT I and CAT II specifications for use in pipping, pipeline transportation and gathering systems for liquid, gas hydrocarbons and other fluids as well as refining locations.

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 plugs, respectively, permitting removal of the tapping valve after work is completed.

The TDW ProSeries Advantage means faster delivery times and broader standard code compliance.

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 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 LOCK-O-RING and LOCK-O-RING Plus completion plugs have scarfed nipples welded.

All 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 fittings and associated products were developed to meet or exceed market lead times.





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		0.5			N/A	
Carbon Equivalent	0.43		0.43		0.43***			0.43***	
Min. Design Temperature (°F)	-50°		-50°		-50°			-20°	
Max. Design Temperature (°F)	250°		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)	Fitting Sleeve Thickness (inches)	Design Pressure (PSI)
4		0.375		0.375		0.375		0.375	
6		0.375		0.625		0.625		0.625	
8		0.375		0.750		0.750		0.750	
10		0.500		0.875		0.875		0.875	
12		0.625	1480	1.000		1.000		1.000	
14		0.625		1.000		1.000	1480	1.125	1330**
16	1480	0.750		1.000	1480	1.000		1.250	
18		0.875				1.250		1.250	
20		1.000	1430*			1.375		1.500	
22		1.250	1220*	1.250		1.500		1.750	
24		1.250	1110*			1.750		2.000	
30		1.375	920*			2.250		2.250	
36		1.750	720*			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 is available upon request.

* Pressure begins to de-rate on sizes above 18" as there is a fitting thickness limitation of 1.25". The minimum pressure listed of 720 psi corresponds to a 36" fitting.

** 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 2.375" (60mm) and thicker could have a CE up to 0.45.



STOPPLE & STOPPLE PLUS Fittings

Tee Kits, Plug Kits, Blind Flange Kits (BFK) & O-ring Kits

Size (inches)	STOPPLE PLUS		STOPPLE PLUS		STOPPLE PLUS		STOPPLE PLUS	
	0.72DF		0.5DF*		0.5DF Fully Rated		ASME B31.3 Fitting	
	Tee Kit	Tee Kit	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	12330034	12330047	12330060	12330073	12330136	12330162
22	12330009	12330022	12330035	12330048	12330061	12330074	12330137	12330163
24	12330010	12330023	12330036	12330049	12330062	12330075	12330138	12330164
30	12330011	12330024	12344654	12344656	12330063	12330076	12330139	12330165
36	12330012	12330025	12330038	12330051	12330064	12330077	12330140	12330166

Size (inches)	LOCK-O-RING PLUGS				LOCK-O-RING PLUS PLUGS				BFK	O-ring
	0.72	0.5*	0.5	B31.3	0.72	0.5*	0.5	B31.3		
	Plug Kit	Plug Kit	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	12334200	12334201	12334202	12334414	12334413	12334415	12334412	12327440	12328017
22	12334204	12334204	12334205	12334206	12334418	12334418	12334419	12334417	12327570	12328018
24	12334208	12334208	12334209	12334210	12334422	12334422	12334423	12334421	12327443	12328019
30	12334212	12334212	12334214	12334215	12334428	12334428	12334430	12334426	12327449	12328021
36	12334217	12334218	12334219	12334220	12334434	12334435	12334436	12334433	12327492	12328023

*These fittings have a thickness limitation of 1.25", limiting pressure ratings.
Fittings size 18" and smaller, use the same part number for .5DF and .5 fully rated.



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.