

PLUMBING

Stainless Steel Pipe Fittings & Flanges

Socket Weld Stainless Steel Pipe Fittings, Class 150 & 3000

Female connections

Socket weld (SW) fittings attach by inserting pipe into the recessed area of the fitting. Pipe and the fitting are square cut for easy fillet welding and installation.

Type 304 stainless steel resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils.

Type 316 stainless steel has a higher nickel content than 304 stainless for greater corrosion resistance that resists corrosion from caustic chemicals, corrosive fluids, oils, and gases, and withstands pressure and high temperatures.

CLASS 150: Medium-pressure (300-399 psi). For plumbing or welding applications with air, water, natural gas, or steam.

Description	Fitting Pipe Size	316 Stainless Steel Item No.
Class 150 Medium Pressure Pipe Fittings		
45° Elbow	1 1/4 in	2TY47
90° Elbow	3/4 in	2TY37
	1 in	2TY38
	1 1/2 in	2TY40
	2 in	2TY41
	2 1/2 in	2TY42
Coupling	1 in	2TY30
	1 1/2 in	2TY32
	2 in	2TY33
	3 in	2TY35
Tee	3/4 in	2TY61
	1 in	2TY62
	1 1/4 in	2TY63
	2 in	2TY65
	2 1/2 in	2TY66
Union	1/2 in	2TY68
	3/4 in	2TY69
	1 in	2TY70
	1 1/4 in	2TY71
	1 1/2 in	2TY72
2 in	2TY73	

CLASS 3000: High-pressure (1000-3000 psi). For natural gas, non-potable water, and oil applications.

Description	Fitting Pipe Size	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 3000 High Pressure Pipe Fittings			
45° Elbow	1/2 in	20XY86	20XZ36
	3/4 in	20XY87	20XZ37
	1 in	20XY88	20XZ38
	1 1/2 in	20XY89	20XZ39
	2 in	20XY90	20XZ40
90° Elbow	1/2 in	20XY66	20XZ21
	3/4 in	20XY67	20XZ22
	1 in	20XY68	20XZ23
	1 1/2 in	20XY69	20XZ24
	2 in	20XY70	20XZ25
Coupling	1/2 in	20XY96	20XZ46
	3/4 in	20XY97	20XZ47
	1 in	20XY98	20XZ48
	1 1/2 in	20XY99	20XZ49
	2 in	20XZ01	20XZ50
Outlet	1/4 in	4HWG2	4HWH1
	3/8 in	4HWG3	4HWH2
	1/2 in	20XZ07	20XZ56
	3/4 in	4HWG4	4HWH3
	1 in	20XZ08	20XZ57
	1 1/4 in	4HWG5	4HWH4
	1 in	20XZ09	20XZ58
	1 in	4HWG6	4HWH5
	1 1/4 in	4HWG7	4HWH6
	1 1/2 in	20XZ11	20XZ60
	1 1/2 in	20XZ10	20XZ59
	1 1/2 in	4HWG8	4HWH7
	2 in	20XZ12	20XC11
2 in	20XZ13	20XC12	
2 in	4HWG9	4HWH8	
Tee	1/2 in	20XY76	20XZ31
	3/4 in	20XY77	20XZ32
	1 in	20XY78	20XZ33
	1 1/2 in	20XY79	20XZ34
	2 in	20XY80	20XZ35

1 1/2" L. † 1 1/8" L. * 1 1/16" L. † 1 1/8" L.

Stainless Steel Pipe Flanges, Class 150 & 300

Flanges allow easy access for cleaning, inspection, and modification. **Raised face** flanges bolt onto pipes without needing welding. **Slip-on** flanges slip over pipe and are manufactured with an inside diameter slightly bigger than the pipe's outside diameter. The pipe slides through the flange and is welded on both sides. **Socket weld** flanges attach to pipe by inserting the pipe into the socket end of the flange and applying a fillet weld around the flange/pipe. **Blind** flanges, also called blank flanges, seal the end of piping systems or pressure vessel openings to test the flow of a gas or liquid. **Butt weld** flanges, also called

welded neck flanges, attach by welding the pipe to the neck of the flange, transferring stress from the flange and the hub's base to the pipe. **Lap joint** flanges are most commonly used with stub end fittings and slide directly over the pipe. The pipe is welded to the stub end, allowing the lap joint flange to rotate freely around the stub end and eliminating issues with bolt-hole alignment. **Type 304 stainless steel** resists corrosion caused by water, heat, saltwater, acids, minerals, and peaty soils. **Type 316 stainless steel** has a higher nickel content than 304 stainless for even greater corrosion resistance.

CLASS 150: Low-pressure 100-299 psi. For use with air, water, oil, natural gas, and steam applications.




Class 150 Low Pressure Threaded




Class 150 Low Pressure Slip-On

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 150 Low Pressure Threaded Flanges					
Raised Face Flange					
1/2 in	3 1/2 in	150 psi	4	4WPV6	4WPV7
3/4 in	3 3/4 in	150 psi	4	4WPV7	4WPV8
1 in	4 1/4 in	150 psi	4	4WPV8	4WPV9
1 1/4 in	4 3/4 in	150 psi	4	4WPV9	4WPV1
1 1/2 in	5 in	150 psi	4	4WPV1	4WPV2
2 in	6 in	150 psi	4	4WPV2	4WPV3
2 1/2 in	7 in	150 psi	4	4WPV3	4WPV4
3 in	7 1/2 in	150 psi	4	4WPV4	4WPV5
6 in	11 in	150 psi	8	60WJ88	4WPV7

CLASS 300: Medium-pressure 300-999 psi. For use with air, water, natural gas, and steam applications.



Class 300 Medium Pressure Blind



Class 300 Medium Pressure Socket Weld

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 300 Medium Pressure Threaded Flanges					
Raised Face Threaded Flange					
1/2 in	3 3/4 in	720 psi	4	4HVL4	4HVN4
3/4 in	4 3/8 in	720 psi	4	4HVL5	4HVN5
1 in	4 3/4 in	720 psi	4	4HVL6	4HVN6
1 1/4 in	5 1/4 in	720 psi	4	4HVL7	4HVN7
1 1/2 in	6 1/8 in	720 psi	4	4HVL8	—
1 1/2 in	6 1/2 in	720 psi	4	—	4HVN8
2 in	6 1/2 in	720 psi	8	4HVL9	4HVN9
2 1/2 in	7 1/2 in	720 psi	8	4HVN1	4HVP1
3 in	8 1/4 in	720 psi	8	4HVN2	—
4 in	10 in	720 psi	8	4HVN3	—
Class 300 Medium Pressure Blind Flanges					
Raised Face Blind Flange					
1/2 in	3 3/4 in	720 psi	4	4HWC4	—
3/4 in	4 3/8 in	720 psi	4	4HWC5	4HWD5
1 in	4 3/4 in	720 psi	4	4HWC6	4HWD6
1 1/4 in	5 1/4 in	720 psi	4	4HWC8	4HWD8
2 in	6 1/2 in	720 psi	8	4HWC9	4HWD9
2 1/2 in	7 1/2 in	720 psi	8	4HWD1	4HWE1
3 in	8 1/4 in	720 psi	8	4HWD2	4HWE2
4 in	10 in	720 psi	8	4HWD3	4HWE3

Nominal Pipe Size	Flange Outside Diameter	Max. Operating Pressure	No. of Bolt Holes	304 Stainless Steel Item No.	316 Stainless Steel Item No.
Class 150 Low Pressure Slip-On Flanges					
Raised Face Slip-On Flange					
1 1/4 in	4 3/4 in	150 psi	4	4HWT3	—
2 in	6 in	—	4	—	60WK28
2 in	6 in	150 psi	4	4HWT5	—
3 in	7 1/2 in	—	4	—	60WK29
3 in	7 1/2 in	150 psi	4	4HWT7	—
4 in	9 in	150 psi	8	4HWT8	4HWU9
6 in	11 in	150 psi	8	4HWT9	4HWX1
Class 150 Low Pressure Socket Weld Flanges					
Raised Face Schedule 40 Socket Weld Flange					
1/2 in	3 1/2 in	275 psi	4	1RUK2	—
1/2 in	3 1/2 in	—	4	—	60WK31
3/4 in	3 3/4 in	275 psi	4	1RUK3	—
3/4 in	3 3/4 in	—	4	—	60WK32
1 in	4 1/4 in	275 psi	4	1RUK4	—
1 in	4 1/4 in	—	4	—	60WK33
1 1/4 in	4 3/4 in	275 psi	4	1RUK5	—
1 1/2 in	5 in	275 psi	4	1RUK6	—
1 1/2 in	5 in	—	4	—	60WK35
2 in	6 in	150 psi	4	4HWX7	—
2 in	6 in	—	4	—	60WK36
2 1/2 in	7 in	275 psi	4	1RUK8	—
Class 300 Medium Pressure Slip-On Flanges					
Raised Face Slip-On Flange					
1/2 in	3 3/4 in	720 psi	4	4HVP4	4HVR4
1 in	4 3/8 in	720 psi	4	4HVP6	4HVR6
1 1/4 in	5 1/4 in	720 psi	4	4HVP7	—
1 1/2 in	6 1/8 in	720 psi	4	4HVP8	4HVR8
2 in	6 1/2 in	720 psi	8	4HVP9	4HVR9
2 1/2 in	7 1/2 in	720 psi	8	4HVR1	4HVT1
3 in	8 1/4 in	720 psi	8	4HVR2	4HVT2
4 in	10 in	720 psi	8	4HVR3	4HVT3
Class 300 Medium Pressure Socket Weld Flanges					
Raised Face Schedule 40 Socket Weld Flange					
1/2 in	3 3/4 in	720 psi	4	4HVT4	4HVU4
3/4 in	4 3/8 in	720 psi	4	—	4HVU5
1 in	4 3/4 in	720 psi	4	4HVT6	4HVU6
1 1/4 in	5 1/4 in	720 psi	4	4HVT7	—
1 1/2 in	6 1/8 in	720 psi	4	4HVT8	—
1 1/2 in	5 1/4 in	720 psi	4	—	4HVU8
2 in	6 1/2 in	720 psi	8	4HVT9	—
2 1/2 in	7 1/2 in	720 psi	8	4HVU1	4HVX1
3 in	8 1/4 in	720 psi	8	4HVU2	4HVX2
4 in	10 in	720 psi	8	4HVU3	4HVX3
Class 300 Medium Pressure Butt Weld Flanges					
Raised Face Schedule 40 Weld Neck Flange					
1/2 in	3 3/4 in	720 psi	4	4HVX4	—
3/4 in	4 3/8 in	720 psi	4	4HVX5	—
3/4 in	4 3/8 in	720 psi	4	—	4HVY5
1 in	4 3/4 in	720 psi	4	—	4HVY6
1 1/4 in	5 1/4 in	720 psi	4	—	4HVY7
1 1/2 in	6 1/8 in	720 psi	4	4HVX8	4HVY8
2 in	6 1/2 in	720 psi	8	4HVX9	4HVY9
2 1/2 in	7 1/2 in	720 psi	8	4HVY1	4HVZ1
3 in	8 1/4 in	720 psi	8	4HVY2	4HVZ2
4 in	10 in	720 psi	8	4HVY3	4HVZ3
Class 300 Medium Pressure Lap Joint Flanges					
Lap Joint Flange					
1 in	4 3/8 in	720 psi	4	—	4HWA6
1 1/4 in	5 1/4 in	720 psi	4	—	4HWA7
1 1/2 in	6 1/8 in	720 psi	4	—	4HWA8
2 in	6 1/2 in	720 psi	8	—	4HWA9