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## Socket Weld Uncoated Black Steel & Iron Pipe Fittings, Class 3000 & 6000




**Class 3000 medium- to high-pressure:** (300-3000 psi). Ideal for petrochemical, pulp, paper, and shipbuilding applications.

Description Union	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
	1/4"	Steel	—	29VF33
	3/8"	Steel	—	29VF34
	1/2"	Forged Steel	1MNU4	—
	3/4"	Steel	—	29VF35
	1"	Forged Steel	1MNU5	—
	1 1/4"	Steel	—	29VF36
	2"	Forged Steel	1MNU6	—
	3"	Steel	—	29VF37


Description	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
	1/4"	Forged Steel	1MNU7	—
	1/4"	Steel	—	29VF38
	1 1/2"	Forged Steel	1MNU8	—
	1 1/2"	Steel	—	29VF39
	2"	Forged Steel	1MNU9	—
	2"	Steel	—	29VF40
	2 1/2"	Steel	—	29VF41
	3"	Forged Steel	1MNV2	—


**Class 6000 high-pressure:** (1000-3000 psi). Ideal for petrochemical, pulp, paper, and shipbuilding applications.


Description	Fitting Pipe Size	Pipe Fitting Material	Approved Vendor Item No.	Anvil Item No.
	<b>Class 6000 High Pressure Pipe Fittings</b>			
	1/8"	Forged Steel	—	29VE34
	1/4"	Forged Steel	—	29VE35
	3/8"	Forged Steel	—	29VE36
	1/2"	Forged Steel	—	29VE37
	3/4"	Forged Steel	—	29VE38
	1"	Forged Steel	—	29VE39
	1 1/4"	Forged Steel	—	29VE40
	1 1/2"	Forged Steel	—	29VE41
	2"	Forged Steel	—	29VE42
	2 1/2"	Forged Steel	—	29VE43
	3"	Forged Steel	—	29VE44
	4"	Forged Steel	—	29VE45

## Butt Weld Uncoated Black Steel & Iron Pipe Fittings, Class Standard & Extra Strong


**Class standard (STD)** high to extreme pressure pipe fittings connect with pipe to transport natural or propane gas, water, steam, and air to residential, construction, and manufacturing applications. They form pipe joints with strength, fatigue, corrosion resistance, and temperature compliance. These beveled fittings are welded to the ends of same thickness pipe. Fittings are made from corrosion-resistant ungalvanized steel with a scaly, dark-colored iron oxide coating. **Class extra strong XS** fittings connect with high- to extreme pressure (1000-3001+ psi) pipe, and are based on the original 1927 standard that uses wall thickness and weight, and are the same as Schedule 40S and identical to Schedule 40 for NPS 1/8 to NPS 10.


Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	3/4" x 3/4"	30WC54	30WC67
	1" x 1"	30WC55	30WC68
	1 1/2" x 1 1/2"	30WC57	30WC70
	2" x 2"	30WC58	30WC71
	3" x 3"	30WC60	30WC73
	4" x 4"	30WC62	30WC75
	5" x 5"	30WC63	30WC76
	8" x 8"	30WC65	30WC78



Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	1/2" x 1/2"	30WC05	30WC18
	1" x 1"	30WC07	30WC20
	1 1/4" x 1 1/4"	30WC08	30WC21
	1 1/2" x 1 1/2"	30WC09	30WC22
	2" x 2"	30WC10	30WC23
	2 1/2" x 2 1/2"	30WC11	30WC24
	3" x 3"	30WC12	30WC25
	3 1/2" x 3 1/2"	30WC13	30WC26
	4" x 4"	30WC14	30WC27
	5" x 5"	30WC15	30WC28
	6" x 6"	30WC16	30WC29
	8" x 8"	30WC17	30WC30


Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	1/4" x 1 1/4"	30WC32	30WC43
	1 1/2" x 1 1/2"	30WC33	30WC44
	2" x 2"	30WC34	30WC45
	3" x 3"	30WC36	30WC47
	3 1/2" x 3 1/2"	30WC37	30WC48
	4" x 4"	30WC38	30WC49
	5" x 5"	30WC39	30WC50
	6" x 6"	30WC40	30WC51
	8" x 8"	30WC41	30WC52

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	2 1/2" x 1"	30WE55	30WF09
	2 1/2" x 1 1/2"	30WE57	30WF11
	3" x 2"	30WE62	30WF16
	3 1/2" x 2"	30WE66	30WF20
	4" x 1 1/2"	30WE71	30WF25
	4" x 2"	30WE72	30WF26
	4" x 2 1/2"	30WE73	30WF27
	4" x 3"	30WE74	30WF28
	5" x 3 1/2"	30WE79	30WF33
	5" x 4"	30WE80	30WF34
	6" x 4"	30WE85	30WF39
	6" x 5"	30WE86	30WF40
	8" x 6"	30WE91	30WF45
	8" x 4"	30WE89	30WF43

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	6" x 2"	30WF88	30WG42
	6" x 2 1/2"	30WF89	30WG43
	6" x 4"	30WF92	30WG46

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	3" x 3" x 2"	30WD29	30WD82
	4" x 4" x 3"	30WD41	30WD94
	5" x 5" x 3"	30WD45	30WD98
	6" x 6" x 4"	30WD52	30WE06

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	1/2"	30WE13	30WE26
	3/4"	30WE14	30WE27
	1"	30WE15	30WE28
	1 1/2"	30WE17	30WE30
	2"	30WE18	30WE31
	2 1/2"	30WE19	30WE32
	3"	30WE20	30WE33
	4"	30WE22	30WE35
	5"	30WE23	30WE36
	6"	30WE24	30WE37
	8"	30WE25	30WE38

Description	Fitting Pipe Size	Class Standard (STD) Item No.	Class Extra Strong (XS) Item No.
	2" x 2" x 2"	30WC84	30WC97
	2 1/2" x 2 1/2" x 2 1/2"	30WC85	30WC98
	3" x 3" x 3"	30WC86	30WC99
	4" x 4" x 4"	30WC88	30WD02
	5" x 5" x 5"	30WC89	30WD03
	8" x 8" x 8"	30WC91	30WD05

## Uncoated Black Steel & Iron Pipe Flanges

Flanges connect with pipe and fittings to form a piping system that transports natural or propane gas, water, steam, and air to residential, construction, and manufacturing applications. Flanges provide easy access for cleaning, inspection, and modification. They are also called black malleable iron flanges and are made from corrosion-resistant ungalvanized steel with a scaly, dark-colored iron oxide coating.

**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. They typically have a raised, flat, or RTJ (ring-type joint) face.

**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. The inside diameter of the flange matches the pipe's inside diameter. Butt weld flanges typically have a RTJ (ring-type joint) face.

**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.


**Slip-On Flanges** typically have raised or flat faces, that slip over pipe. They 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 (SW)** flanges attach to pipe by inserting the pipe into the socket end of the flange and applying a fillet weld around the flange/pipe. This weld creates a smoother bore and better flow of fluid or gas inside the pipe. These flanges typically have a raised, flat, or RTJ (ring-type joint) face.

**Threaded Flanges** also called screwed flanges, connect to the external threads on a pipe without welding. Threaded pipe flanges typically have a raised, flat, or RTJ (ring-type joint) face.

**XS Flanges** Class Extra Strong (XS) are based on the original 1927 standard that uses wall thickness and weight. Class XS is the same as Schedule 80S which is identical to Schedule 80 for NPS 1/8 to NPS 8.

**Class 150 low pressure:** (100-299 psi). For use with air, water, oil, natural gas, or steam.

	No. of Bolt Holes	Nominal Pipe Size	Flange Outside Dia.	Pipe Fitting Material	Max. Oper. Press. (psi)	Temp. Range (°F)	Item No.
<b>Class 150 Blind Steel Pipe Flanges</b>							
	4	1"	4 1/4"	Steel	150	-29° to 425	4TXD9
	4	1 1/2"	4 5/8"	Steel	150	-29° to 425	4TXE2
	—	2"	—	Carbon Steel	285	-20° to 100	30WG97
	4	2 1/2"	7"	Steel	150	-29° to 425	4TXE4
	4	3"	7 1/2"	Steel	150	-29° to 425	4TXE5
	8	4"	9"	Steel	150	-29° to 425	4TXE6
	8	6"	11"	Steel	150	-29° to 425	4TXE8
	8	8"	13 1/2"	Steel	150	-29° to 425	4TXE9

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