Steel ANSI Socket Welded SW Flange With Pressure 150# 300# 600# 900#

Basic Information

Place of Origin: CHINABrand Name: DEYE

Certification: ISO9001:2015 PED
Model Number: PF-FL-SW05
Minimum Order Quantity: 10PCS

Price: USD10-USD100 each pcs
Packaging Details: Fumigation Ply-wooden cases
Delivery Time: 30 days for usual order



Product Specification

Payment Terms:

 Standard: ASME B16.5, ASME B16.47, API 6A, EN 1092-1, BS 4504, BS 10, DIN, JIS, GOST.

T/T, L/C, D/P

A105 A105N A050LEO A100E00 E11 E50

Material: A105, A105N, A350LF2, A182F22, F11, F56,

F60, Stainless Steel

• Size: 1/2"(DN15)-88"(DN2200)

• Types: Weld Neck, Slip On, Blind, Socket Weld,

Threaded, Lap Joint, Spectacle, Paddle, Long Weld Neck, Spacer, Orifice, Reduced,

Plate

• Pressure Rating: Class 150, 300, 400, 600, 900, 1500, 2500;

PN 6, PN 10, PN 16, PN 25, PN 40, PN 63, PN 100, PN 160, PN 250, PN 320, PN 400.

• Surface: Black, Golden Yellow, Cold Galvanized, HDG.

Anti-Rust Oil

• Highlight: ANSI sw flange, Steel sw flange,

900# socket welded flange

Product Description

ANSI Steel Socket Welded SW Flange With Pressure 150# 300# 600# 900#

Socket Weld flanges were initially developed for use on small-size high pressure piping. Their static strength is equal to Slip On flanges,

but their fatigue strength 50% greater than double-welded Slip On flanges. Size Range moslty≤3 ", The main use of socket welded

flange is to connect pumps, pipes, valves, and other equipment to make a pipework system. Usually, SW flanges with a raised face, and you

can connect two flanges by bolting them with gaskets and providing a seal that gives easy access to the piping system.

Product Information/Product Description/Basis Information/Specification

Product in	formatio	on/Product Description/Basis Information/Specification							
Product Name	ANSI STEEL SOCKET WELDED SW FLANGE WITH 150#								
Types	Plate, Welding Neck, Slip on, Blind, Lap joint, Threaded Flange ,socket welding, Long weld neck, Loose Flanges,, Orifice, Blinds, customized,								
Face Finish	RFlat F	ace (FF), Raised Face (RF), Ring Type Joint (RTJ)							
	ANSI	ANSI B16.5 ASME B16.47 series A/B, API605, AWWAC207							
	DIN	DIN 2631 DIN2632 DIN2543 DIN2502 2573 2527 2565 DIN2566 2641,2642,							
	GOST	GOST 12820-80,GOST 12821-80,Gost Blind							
Standard	EN	EN1092-1:2002							
	JIS	JIS B2220-2004, KS D3576, KS B6216,KS B1511-2007,JIS B2261 JIS B8210							
	BS	BS4504,BS10 Table D/E							
	UNI	UNI 2253-67,UNI6091-67,UNI2276-67,UNI2280-67,UNI6089-67							
	SABS	SABS 1123							
		CS A105/SA 105N							
		Steels for Low Temperature Service: A 350 Grade LF 1, A350LF2, A350LF4, A350LF6, A350LF8. CL1/CL2, LF3 CL1/CL2,							
	ANSI	Stainless Steel SS 304/304L,316/316L, SS321, SS347H, SS316TI, SS304HM SS316H, 904L, UNS31803, UNS32750, UNS32760							
Material		Alloy Steel: WHPY45/52/65/80/A 182 Grade F 5, A 182 Grade F 9, A 182 Grade F 11, F 12, F22, F91, A694 F42, F46, F48, F50, F52, F56 F60, F65, F70, A516.60, 65, 70 (Spectacle Blind Flange, Spacer Ring/Spade Flange),							
	DIN	CS RST37.2;S235JR SS 304/304L,316/316L, Stainless steel 1.430 1.4404, SAF2205, SAF2507,							
	GOST	CS CT20;16MN;SS 304/304L,316/316L							
	EN	CS RST37.2;S235JR;C22.8SS 304/304L,316/316L							
	JIS	CS SS400,SF440,SS 304/304L, 316/316L							
	BS	CSRST37.2;S235JR;C22.8;Q235SS 304/304L,316/316L							
	UNI	CSRST37.2;S235JR;C22.8;Q235SS 304/304L,316/316L							
	SABS	CSRST37.2;S235JR;Q235;SS 304/304L,316/316L							
	ANSI	Class 150, 300, 600, 900, 1500 2500lbs, with welded thickness STD, SCH40, SCH80, SCH160. SCHXXS							
	DIN	PN6,PN10,PN16,PN25,PN40,PN64,PN100							
	GOST	PN6,PN10,PN16,PN25							
Pressure	EN	PN6,PN10,PN16,PN25,PN40,PN64,PN100							
	JIS	1K,2K,5K,10K,16K,20K,30K,40K							
	BS	PN6,PN10,PN16,PN25,PN40,PN64,PN100							
	UNI	PN6,PN10,PN16,PN25,PN40							
	SABS	600KPA,1000,1600,2500,4000							
	ANSI	1/2" – 60"							
	DIN	DN15-DN2000							
	GOST	DN10-DN1600							
	EN	DN15-DN2000							
Size	JIS	15A-1500A							
JIZ C	BS	DN15-DN2000							
	UNI	DN10-DN2000							
	SABS	DN10-DN600							

Surface

Oil Black Paint, varnish, Golden yellow paint, anti-rust oil, galvanizing, Cold and Hot Dip Galvanized etc, Zinc plating. chrome plating. Black treatment, anodize, powder coating. punishment, brass plating. etc.

Features /Characteristics

- •Carbon steel flanges shall not be used in services above 425 °C
- •High-temperature service: Standard carbon steel material shall be ASTM A 105, a material that can be safely used for temperatures between minus 29 °C and 425 °C.
- •Low-temperature Service: Carbon steel flanges used for services below minus 29 °C, shall conform to the impact-testing requirements of ASME B 31.3.
- •ASTM A 350-LF2 shall be the standard material for low temperature applications
- •High-Yield Service: High strength carbon steel flanges ASTM A694 should fit API Std. 5L pipe Grade X42 to X65.
- •Material for low-alloy steel flanges (11/4 Cr-1/2 Mo) shall be ASTM A 182-F11. Material for intermediate alloy steel flanges (11/2 Cr-5 Mo) shall be ASTM A 182-F5.

Technology/ How to use and install the different flange types

WELDING NECK FLANGES

They are connected to the pipe by means of a Butt weld connection. They are used when X-ray testing is required or if the torque over unions are maximum. Its long tapered neck optimizes the stress distribution.



SLIP-ON FLANGES

This kind of flanges are installed with two weld bead, sliding the pipe inside. Thus installation costs are lower, so less accuracy is required for pipe cutting.



THREADED FLANGES

They are usually installed with the pipe previously threaded, in places where welding cannot be done. We do not recommend to install if there are high pressure variations in the system



LAP JOINT FLANGES

They slide on an overlapped gasket. They are commonly used where it is necessary to dismantle in order to be cleaned or repaired. Dismantling cost decreases due to the ease of flange turning and drilling alignment.



SOCKET WELD FLANGES

This kind of flange is especially designed for lower small diameters and high pressures. The pipe is inserted into the flange up to the seat and then is fillet welded against the cube.



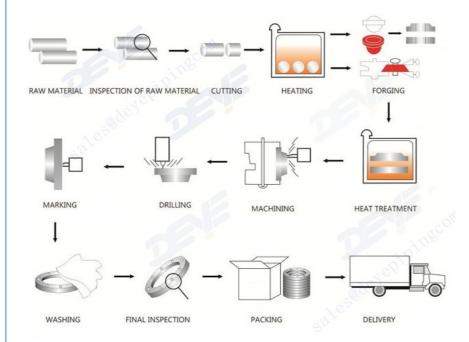
BLIND FLANGESBlind flanges are utilized for pipe ends, and they bolted to any of the above flange types.



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ASTM Designatioin		Tensile s	trength		milit E	long	ation in 50	Stress	Brinell	Faces	Charpy - V	
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	F1	70	485	40		7	20	30	143 - 192			
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						2				1		
	F5	70	485	40		7	20	35	143 - 217			
						5						
						2				1		
	F11 Cl. 1	60	415	30		- 1	20	45	121 - 174			
						5						
						2						
	F11 Cl. 2	70	485	40		- 1	20	30	143 - 207			
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	F11 Cl. 3	75	515	45		- 1	20	30	156 - 207			
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	F316L	702	4852	25		-	30	50				
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	F52	66	455	52	3 6 20 0					
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	F65	77	530	65	4 5 20 0					
	F70	82	565	70	4 8 18 5					

Production Process



Flanged Standard

ASME B16.5

This is the most used flange standard worldwide. The standard includes forged, cast and laminated flanges. It covers service, materials, dimensions, tolerances, marking and testing for flanges. It also describes all flange types for size 1/2"to 24"Class 150#, 300#, 400#, 600#, 900# & 1500#, and 1/2"to 12"Class 2500#.

ASME B16.36

This standard is applicable to flanges for flow measurement with orifice plate.

ASME B16.36 flanges have the same dimensions as B16.5 flanges except for the minimum thickness that is increased to allow measurement orifices.

Moreover, two slots and bolts allow flange separation and the replacement of the measurement plate. It covers sizes from 1"to 24"Class 300# to 1500#, and sizes 1"to 12"Class 2500#.

MSS SP-44

An standardization used for thin thicknesses and high strength. It covers ranges from 12"to 60"Class 150# to 600# and up to 48"Class 900# only for blind and welding neck flanges. Outside diameter and drilling template matches with ASME up to 36. Therefore, they can be used with valves and pumps according to ASME.

ASME B16.47

This standard covers the previous one complementing it with materials, pressure ratings and temperatures from ASME B16.5. A type class is similar to

MSS-SP44. B type is the same as API 605.

ASME B16.20

It includes materials, dimensions and marking of rings for steel flanges 1/2 to 24"Class 150# to 1500#, and 36"Class 900#.

API 6 A

API 6 A specification has been created for wellheads and Christmas trees. It includes the standardization of lap joint flanges, which are dimensionally replaceable with ASME B16.5 ones but adding some tolerances with all sizes. However, as API materials are more resistant, the maximum service pressure of API/ASME union is limited to that of lower performance flange.

This European Standard for a single series of flanges specifies requirements for circular steel flanges in PN designations PN 2,5 to PN 400 and nominal sizes from DN 10 to DN 4000.

This European Standard specifies the flange types and their facings, dimensions, tolerances, threading, bolt sizes, flange jointing face surface finish, marking, materials, pressure/temperature ratings and approximate flange masses.

For the purpose of this European Standard, "flanges" include also lapped ends and collars. This European Standard applies to flanges manufactured in accordance with the methods described in Table 1. Non-gasketed pipe joints are outside the scope of this European Standard.

Application/Usage

A flange is a method of connecting pipes, valves, pumps, and other equipment to form a piping system to convey the water, steam, air, gas and oil. It also provides easy access for cleaning, inspection, or modification.

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