



# FLANGES & FITTINGS

**K&S FLOW PRODUCTS INC.**

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# BW PIPE FITTING

STAINLESS STEEL	A403 WP304, WP304L, WP316, WP316L, WP317L, WP321, WP321H
CARBON STEEL	A234 WPB, A234WPC
ALLOY STEEL	A234 WP11, WP12, WP22, WP5, WP9, WP91
LOW TEMPERATURE STEEL	A234 WPL6, WPL3, WPL9
TYPE	90°ELBOW(LR, SR), 45°ELBOW(LR) CAP, TEE, REDUCER(CON, ECC), STUB-END, SWAGE NIPPLE
SIZE	1/8" ~ 72" SCH 5S ~ SCH XXS
WALL THICKNESS	SPECIAL WALL THICKNESS PER REQUIREMENTS
OTHER MATERIAL	DUPLEX A815 S31803, S32760 CU/NI 90/10 C7060X



# STANDARD FLANGE

STANDARD TYPE FLANGE

WELD NECK, LONG WELDING NECK, SOCKET WELDING, BLIND, SLIP ON, HANGER, LAP JOINT, SWIVEL, SPADE, SPACER, SPECTACLE, ORIFICE

STANDARD RATING

150LBS, 300LBS, 600LBS, 900LBS, 1500LBS, 2500LBS, 3000LBS, 5000LBS, 10000LBS

STANDARD FACING

RAISED FACE, MALE & FEMALE

RING-TYPE JOINT

FLAT FACE, GROOVE

ANSI B16.5, B16.47, B16.1, B16.36, B16.48

STANDARD DIMENSION

AWWA C207, API 6A 590, 605

BS 4504, BS3293-JIS & KS FLANGE

MSS SP44, DIN, EEMUA145

STANDARD GRADE

CARBON STEEL ASTM A105, A266, A181, A707

LOW TEMPERATURE CARBON STEEL A350 LF2, LF3

STAINLESS STEEL A182 F304, F304L, F316, F316L, F317, F317L, F347, F321

HIGH STRENGTH A694 F42, F52, F46, F60, F65

ALLOY STEEL A182 F1, F5, F9, F11, F12, F22, F91

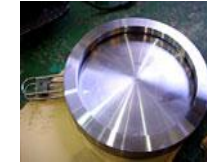
DUPLEX MATERIAL A182 F51

SUPER DUPLEX MATERIAL A182 F53

OTHERS

CU/Ni 90/10(C7060X)

INCONEL



# WELDING NECK FLANGES



The welding neck flange is normally referred to as the "high hub" flange. It is designed to transfer stresses to the pipe, thereby reducing high stress concentrations at the base of the flange. The welding neck flange is the best designed butt-welded flange of those currently available because of its inherent structural value

# THREADED (SCREWED) FLANGES



The threaded flange is similar to the slip-on flange, but the bore is threaded. Its chief merit is that it can be assembled without welding, explaining its use in low pressure services at ordinary atmospheric temperatures, and in highly explosive areas where welding create a hazard.

# SLIP-ON FLANGES



The Slip-On Flange has a low hub because the pipe slips into the flange prior to welding. It is welded both inside and out to provide sufficient strength and prevent leakage. Slip-on flanges are all bored slightly larger than the outside diameter of the matching pipe. They are preferred over welding neck flanges by many users due to their lower initial cost, but final installation cost is probably not much less than that of the welding neck flange because of the additional welding involved.

# LAP JOINT FLANGES



The lap joint is practically identical to a slip-on flange except it has a radius at the intersection of the bore and flange face. This radius is necessary to have the flange accommodate a lap joint stubend. Normally, a lap joint flanges and a lap joint stub end are matched together in an assembly system.

# BLIND FLANGES



The blind flanges is a flange without a bore. It is used to close off the ends of a piping system and/or pressure vessel opening. It also permits easy access to the interior of a line or vessel once it has been sealed and must be reopened.



# SOCKET WELDING FLANGES



The socket welding flange is similar to a slip-on flange except it has a bore and a counterbore dimension. The counterbore is slightly larger than the outside diameter of the matching pipe, allowing the pipe to be inserted into the flange similar to a slip-on flange. The diameter of the smaller bore is the same as the inside diameter of the matching pipe. A restriction is built into the bottom of the bore which sets as a shoulder for the pipe to rest on. This eliminates any restriction in flow when using a socket welding flange.

# SPECIFICATION OF FLANGES

ANSI/ASME	B16.5	PIPE FLANGES(~NPS 24)
	B16.36	ORIFICE FLANGES(~NPS 24)
	B16.47	LARGE FLANGE-Series A / Series B(~NPS 60)
AWWA	C207	Steel Pipe Flanges for Waterwork Service(~NPS 144)
API	6A	Type 6B / 6BX FLANGE
JIS	B 2220	STEEL PIPE FLANGE
	B 2291	21 Mpa Slip-On Welding Pipe Flanges For Hydraulic Use
	F 7806	Ship's 280K and 350K Socket Welding Pipe Flanges
DIN	WELDING NECK	STEEL PIPE FLANGE
	SLIP-ON	21 Mpa Slip-On Welding Pipe Flanges For Hydraulic Use
	BLIND	Ship's 280K and 350K Socket Welding Pipe Flanges

# ANSI/ASME FLANGES



BL RF Flanges



LJ FF Flanges



SO RF Flanges



WN RF Flanges



THRF Flanges



WNRTJ Flanges



Orifice Flanges



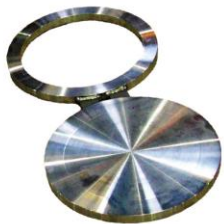
SWRF Flanges



Long Welding  
Neck Flanges



AWWA Flanges



Line-Blankes

*THANK YOU*

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