

Stainless Steel Flanges & Flange Unions

Made in U.S.A.

STAINLESS STEEL
FLANGE & FLANGE UNIONS
1/2" TO 3" PIPE SIZES
800 psig SWP

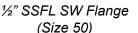
2-Bolt Oval Configuration

- fits R/S, Hansen, Henry, Frick, and York -

AVAILABLE CONNECTIONS

Socket Weld: ½", ¾", 1", 1¼"
Butt Weld (Schedule 40 & 10): ½", ¾", 1", 1¼"
Threaded (FPT): ¼", ¾8", ½", ¾″, 1", 1¼"







1" SSFL BW Flange (Size 100)

4-Bolt Square Configuration

- fits R/S, Hansen, Henry, Frick, and York -

AVAILABLE CONNECTIONS

Socket Weld: 1½", 2", 2½", 3" Butt Weld (Schedule 40 & 10): 1½", 2", 2½", 3" Threaded (FPT): 1½", 2"



2" SSFL SW Flange (Size 200)



3" SSFL BW Flange (Size 300)

Stainless Steel Tongue & Groove Flanges and Flange Unions by HANTEMP Controls are intended for use in stainless steel piping systems that require joints for equipment servicing. Designed for compatibility with HANTEMP Regulators. Solenoid Valves, and Ball

with HANTEMP Regulators, Solenoid Valves, and Ball Valves, the flanges and flange unions are compatible with Parker R/S, Hansen, Henry, York, and Frick sizes. These flanges and flange unions avoid weld joints of ordinary steel flanges to stainless steel.

Flange Union Kits include: 1 male tongue, 1 female groove flange, stainless steel bolts, nuts, lock washers and gasket. **Companion Flange Sets** include: 2 male tongue flanges. Refer to page 3 for dimensions and connections.

THE TREND TO STAINLESS STEEL PIPING FOR INDUSTRIAL REFRIGERATION SYSTEMS

The application of stainless steel is becoming increasingly popular as the best safe, low maintenance piping for industrial refrigeration facilities. Flanges commonly available are either cast iron, which cannot be welded, or forged steel flanges, which can be welded but are highly susceptible to rusting. In addition, the standard location of flanges in the piping system makes them nearly impossible to paint, especially when surfaces are obstructed by rusting steel nuts and bolts. The absence of embrittlement and increased shock resistance with stainless steel at low temperatures improves safety. The general resistance to corrosion for pipes, welds, and valves results in added savings with the elimination of preventive painting, coating, and rust stain dripping. Lighter weight schedule 10 stainless steel piping is often suitable as an alternative to Schedule 40 above 11/2" size.

Where ordinary steel piping is used, these flanges can be properly welded with the correct rod.

THREADED FLANGES AVAILABLE

FPT flanges are created using a single-point threading process to ensure a clean, tight connection. Threads can engage to iron, steel, copper, brass, or plastic FPT threaded pipe. HANTEMP recommends applying a coating of grease to threaded stainless steel connections and bolts prior to installation to prevent galling/sticking.



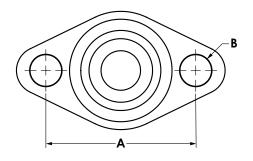
STAINLESS STEEL FLANGE DIMENSIONS

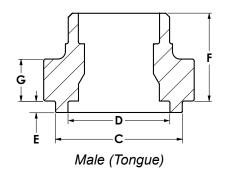
2-Bolt Oval Flanges

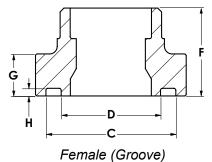
Socket Weld (shown), Butt Weld, or Threaded (FPT),

1/2" Nominal (gasket 1.27" OD x 0.97" ID x .06" thick)

1" Nominal (gasket 2.08" OD x 1.67" ID x .06" thick)







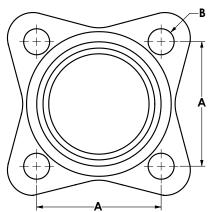
4-Bolt Square Flanges

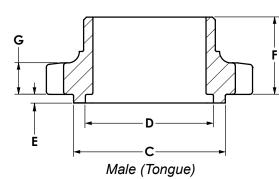
Socket Weld, Butt Weld (shown), or Threaded (FPT),

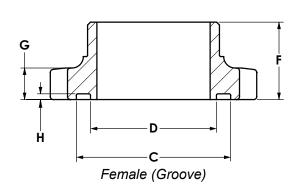
2" Nominal (gasket 3.23" OD x 1.52" ID x .06" thick)

2½" Nominal (gasket 3.75" OD x 3.00" ID x .06" thick)

3" Nominal (gasket 4.38" OD x 3.63" ID x .06" thick)







Ci-a	Commontion		Dimensions (inches)						
Size	Size Connection	Α	В	C*	D*	E	F	G	Н
050	1/2"	2.25	1/2"	1.25	0.98	0.19	1.12	0.63	0.13
050	3/4"	2.25	1/2"	1.25	0.98	0.19	1.12	0.63	0.13
100	3/4"	3.13	5/8"	2.13	1.63	0.19	1.44	0.69	0.13
100	1"	3.13	5/8"	2.13	1.63	0.19	1.44	0.69	0.13
100	11/4"	3.13	5/8"	2.13	1.63	0.19	1.44 [†]	0.69	0.13
200	11/2"	3.06	5/8"	3.28	2.47	0.19	1.69	0.69	0.13
200	2"	3.06	5/8"	3.28	2.47	0.19	1.69	0.69	0.13
300	21/2"	3.88	3/4"*	3.77	3.00	0.19	1.88	0.88	0.13
300	3"	4.13	3/4"*	4.38	3.63	0.19	1.88 [†]	0.88	0.13

^{*}Nominal shown; tongue has clearance to fit in groove.

Note: Size 300 bolt holes are slightly oval for compatibility with Size 250 flanges.



^{†11/4&}quot; Socket Weld "F" Dimension: Male=0.88; Female=0.69 3" Socket Weld "F" Dimension: Male=1.06; Female=0.88

INSTALLATION DIMENSIONS 2-BOLT OVAL FLANGES -

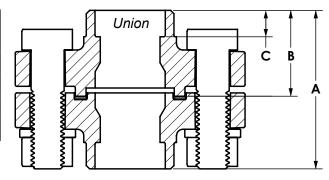
Size	Socket	Dimer	nsions (in	iches)
Size	Weld	Α	В	С
050	1/2"	2.14	1.20	0.44
050	3/4"	2.14	1.20	0.50

Si-a	Butt	Dimensions (inches)		
Size	Weld	Α	В	
050	1/2"	2.14	1.20	
050	3/4"	2.14	1.20	

Sizo	Socket	Dimensions (inches)			
Size	Weld	Α	В	С	
100	3/4"	3.00	1.63	0.50	
100	1"	3.00	1.63	0.50	
100	11/4"	1.50	0.88	0.44	

Size	Butt	Dimensions (inches)		
Size	Weld	Α	В	
100	3/4"	3.00	1.63	
100	1"	3.00	1.63	
100	11/4"	3.00	1.63	

Size	FPT	Dimer (inc	
		Α	В
050	1/4"	2.14	1.20
050	3/8"	2.14	1.20
050	1/2"	2.14	1.20



Size	FPT	Dimer (inc	nsions hes)
		Α	В
100	3/4"	3.00	1.63
100	1"	3.00	1.63
100	11⁄4"	1.50	0.88

4-BOLT SQUARE FLANGES -

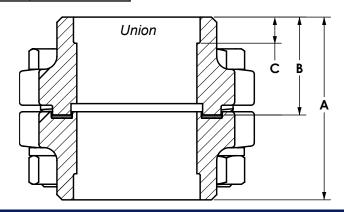
Si=a	Socket	Dimensions (inches)		
Size	Weld	Α	В	С
200	1½"	3.50	1.88	0.63
200	2"	3.50	1.88	0.63

Size	Butt	Dimensions (inches)		
Size	Weld	Α	В	
200	1½"	3.50	1.88	
200	2"	3.50	1.88	
200	2½"	3.50	1.88	

Size	Socket	Dimensions (inches)			
SIZE	Weld	Α	В	С	
300	2½"	4.00	2.07	0.75	
300	3"	2.10	1.06	0.82	

Size	Butt	Dimensions (inches)		
Size	Weld	Α	В	
300	2½"	4.00	2.10	
300	3"	4.00	2.10	

Size	FPT	Dimer (inc	
		Α	В
200	1½"	3.50	1.88
200	2"	3.50	1.88



Note: Contact factory for ODS connections from $\frac{7}{8}$ " to $\frac{31}{8}$ ".



SSFL FLANGE UNION KITS						
Threaded (FPT)	Socket Weld	Butt Weld	Size (mm)	Wt. lbs. (Kg)		
SS-UK-050-FPT025	SS-UK-050-SW050	SS-UK-050-BW050	1/2" (13)	1.5 (0.7)		
SS-UK-050-FPT038	SS-UK-050-SW075	SS-UK-050-BW075	³⁄₄" (20)	1.5 (0.7)		
SS-UK-050-FPT050						
SS-UK-100-FPT075	SS-UK-100-SW075	SS-UK-100-BW075	³ ⁄ ₄ " (20)	3.0 (1.3)		
SS-UK-100-FPT100	SS-UK-100-SW100	SS-UK-100-BW100	1" (25)	3.0 (1.3)		
SS-UK-100-FPT125	SS-UK-100-SW125	SS-UK-100-BW125	1¼" (32)	3.0 (1.3)		
SS-UK-200-FPT150	SS-UK-200-SW150	SS-UK-200-BW150	1½" (40)	9.1 (4.1)		
SS-UK-200-FPT200	SS-UK-200-SW200	SS-UK-200-BW200	2" (50)	9.1 (4.1)		
		SS-UK-200-BW250	2½" (65)	9.1 (4.1)		
	SS-UK-300-SW250	SS-UK-200-BW250	2½" (65)	16.5 (7.5)		
	SS-UK-300-SW300	SS-UK-300-BW300	3" (80)	16.5 (7.5)		

Unions include 1 male and 1 female flange, stainless steel bolts, nuts, lock washers, and gaskets. Connections may be mixed.

SSFL COMPANION FLANGE SETS						
Threaded (FPT)	Socket Weld	Butt Weld	Size (mm)	Wt. lbs. (Kg)		
SSFL-050-FPT025	SSFL-050-SW050	SSFL-050-BW050	1⁄2" (13)	1.0 (0.5)		
SSFL-050-FPT038	SSFL-050-SW075	SSFL-050-BW075	³⁄₄" (20)	1.0 (0.5)		
SSFL-050-FPT050						
SSFL-100-FPT075	SSFL-100-SW075	SSFL-100-BW075	³⁄₄" (20)	2.2 (1)		
SSFL-100-FPT100	SSFL-100-SW100	SSFL-100-BW100	1" (25)	2.2 (1)		
SSFL-100-FPT125	SSFL-100-SW125	SSFL-100-BW125	1¼" (32)	2.2 (1)		
SSFL-200-FPT150	SSFL-200-SW150	SSFL-200-BW150	1½" (40)	8.0 (3.6)		
SSFL-200-FPT200	SSFL-200-SW200	SSFL-200-BW200	2" (50)	8.0 (3.6)		
	SSFL-300-SW250	SSFL-300-BW250	2½" (65)	15.5 (7)		
	SSFL-300-SW300	SSFL-300-BW300	3" (80)	15.5 (7)		

Note: Unless specified, all butt weld Companion Flange Sets & Unions will be supplied with schedule 40 pipe connections. Schedule 10 pipe connections are available upon request. To order, specify catalog number and quantity.

Note: HANTEMP Companion Flange Sets & Unions are carefully packed to prevent any possible damage to machined surfaces during shipping.

RECOMMENDED PROCEDURE FOR FLANGE BOLT TIGHTENING

Use fresh gaskets. Ensure all sealing surfaces are clean and free of damage and debris. A light coating of refrigerant oil may be used on gaskets. Verify flanges are parallel and pipes are in alignment. Use proper and approved bolting materials. Tighten fasteners gradually and in an opposing pattern. Reference the latest edition of the IIAR standards for further guidance.

Anti-seize lubricant recommended for all stainless steel fasteners.

HANTEMP Controls reserves the right to alter product dimensions, specifications, materials, and pricing without notice.



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