ANBER GLOBE S. A.
EQUIPOS CONTRA INCENDIOS

FIG. S F-1 (F-1) Grooved Flange Adapter

AnvilStar™
Fire Products Division of Anvil® International

SPF/ANVIL

Submittal Sheet

The SF-1 Flange enables class 125/150 flange end components to be connected directly into a grooved end piping system. A special gasket provides a permanent seal between the pipe and the mating flange. Integral closing tabs on the O.D. of the flange facilitate assembly.

All products are UL & ULC listed as well as FM approved. Maximum working pressure for these products is 300 PSI.

UL ULC FM
APPROVED
For Listing / Approval details contact your AnvilStar™ Representative.

MATERIAL SPECIFICATION S

HOUSING:
Ductile Iron conforming to ASTM A-536, Grade 65-45-12.

STAINLESS STEEL BOLTS & NUTS:
Stainless steel bolts and nuts are also available. Contact an AnvilStar Representative for more information.

COATINGS:
- Rust inhibiting paint Color: ORANGE (standard)
- Hot Dipped Zinc Galvanized (optional)
- Other (Specify): _____ Example: RAL3000 or RAL9000 Series

For other Coating requirements contact an AnvilStar Representative.

LUBRICATION:
- Standard Gruvlok Gruvlok Xtreme™ (Recommended for dry pipe systems and freezer applications.)
- Other (Specify): _____

GASKETS: Materials
Properties as designated in accordance with ASTM D-2000.

Grade "E" EPDM (Green color code) NSF-61 Certified
-40°F to 230°F (Service Temperature Range)(-40°C to 110°C)
Recommended for water service, diluted acids, alkalies solutions, oil-free air and many chemical services.

NOT FOR USE IN PETROLEUM APPLICATIONS.

Grade "T" Nitrile (Orange color code)
-20°F to 180°F (Service Temperature Range)(-29°C to 82°C)
Recommended for petrolium applications, air with oil vapors and vegetable and mineral oils.

NOT FOR USE IN HOT WATER OR HOT AIR.

Other_____

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Nominal Size	Pipe O.D.	Max. Working Pressure	Max. End Load	Range Dimensions			Sealing Surface		Mating Flange Bolts				Approx. Wt. Ea.
									Mating Flange Bolts		Specified Torque §		
				X	Y	Z	A Max.	B Min.	Qty.	Size (ANSI)	Min.	Max.	
In./DN(mm)	In./mm	PSI/bar	Lbs./kN	In./mm	In./mm	In./mm	In./mm	In./mm		in. (ISO) mm	Ft.-Lbs/N-m		Lbs./Kg
2 50	2.375 60.3	300 20.7	1,329 5.91	6 152	8 203	¾ 19	2⅜ 60.3	3¼ 83.1	4	⅝ x 2¼	110 149	140 190	3.2 1.5
2½ 65	2.875 73.0	300 20.7	1,948 8.67	7 178	9 1/16 230	⅞ 22	2⅞ 73.0	3¾ 95.8	4	⅝ x 3	110 149	140 190	4.6 2.1
3 80	3.500 88.9	300 20.7	2,886 12.84	7½ 191	9½ 241	1 5/16 24	3½ 88.9	4⅜ 111.6	4	⅝ x 3	110 149	140 190	5.7 2.6
4 100	4.500 114.3	300 20.7	4,771 21.22	9 229	11 279	1 5/16 24	4½ 114.3	5⅜ 137.0	8	⅝ x 3	110 149	140 190	7.9 3.6
6 150	6.625 76.1	300 20.7	10,342 46.00	11 279	13 330	1 25	6⅝ 168.3	7½ 191.0	8	¾ x 3½	220 298	250 339	10.0 4.5
8 200	8.625 219.1	300 20.7	17,528 77.97	13½ 343	15½ 394	1⅛ 29	8⅝ 219.1	9⅞ 250.8	8	¾ x 3½	220 298	250 339	15.7 7.1
10 250	10.750 273.1	300 20.7	27,229 121.12	16 406	18½ 470	1 3/16 30	10¾ 273.1	12 304.8	12	⅞ x 4	320 439	400 542	47.0 21.3
12 300	12.750 323.9	300 20.7	38,303 170.37	19 483	21½ 546	1¼ 32	12¾ 323.9	14 355.6	12	⅞ x 4	320 439	400 542	69.0 31.3

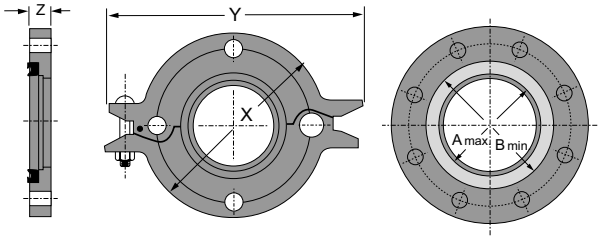
1. Working pressure and/or end load are total allowable, based on standard weight steel pipe, roll or cut grooved.
2. One time field test pressure may be increased to 1.5 times the figures listed above.
3. Required flange bolts to be supplied by installer.

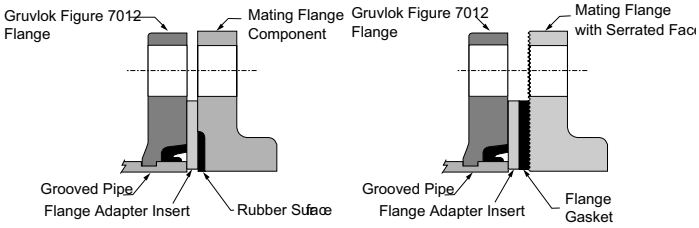
*THE EFFECTIVE SEALING AREA OF THE MATING FLANGE MUST BE FREE FROM GOUGES OR DEFORMITIES OF ANY TYPE TO ENSURE PROPER SEALING OF THE GASKET.

§ – For additional Bolt Torque information see Technical Data Section. Other sizes available, contact an AnvilStar Representative.

⚠ WARNING

For dry pipe systems and freezer applications lubrication of the gasket is required, Gruvlok® Xtreme™ Lubricant is recommended.





A. The sealing surfaces A Max. to B. Min. of the mating flange must be free from gouges, undulations and deformities of any type to ensure proper sealing of the gasket.

B. SPF Flanges are to be assembled on butterfly valves so as not to interfere with actuator or handle operation.

C. Do not use SPF Flanges within 90 degrees of one another on standard fittings because the outside dimensions may cause interference.

D. SPF Flanges should not be used as anchor points for tie-rods across non-restrained joints.

E. Fig. SF-1 SPF Flange sealing gaskets require a hard flat surface for adequate sealing. The use of a SPF Flange Adapter Insert is required for applications against rubber faced valves or other equipment. The SPF Flange Adapter Insert is installed between the SPF Flange sealing gasket and the mating flange or surface to provide a good sealing surface area.

F. SPF Flanges are not recommended for use against formed rubber flanges.

G. An additional bolt is recommended for the hinge side of the 2" - 12" Fig. SF-1 when connection to lug valves.

H. Contact AnvilStar for Di-Electric Flange connections.

Applications which require a SPF Flange Adapter Insert:

1. When mating to a wafer valve (lug valve), if the valve is rubber faced in the area designated by the sealing surface dimensions (A Max. to B Min.), place the SPF Flange Adapter Insert between the valve and the SPF flange.
2. When mating to a rubber-faced metal flange, the SPF Flange Adapter Insert is placed between the SPF Flange and the rubber-faced flange.
3. When mating to a serrated flange surface, a standard full-faced flange gasket is installed against the serrated flange face and the SPF Flange Adapter Insert is placed between the SPF Flange and the standard Flange gasket.
4. When mating to valves or other component equipment where the flange face has an insert, use procedure described in note 3.

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