

POLY-SD BOLTED TYPE SERIES

DESCRIPTION

The Typical Poly-SD Bolted Type Rupture Disc Holder is a two-piece unit consisting of a base flange (inlet) and a holddown flange (outlet). The seating surfaces of these flanges are machined to grip Fike's Poly-SD Rupture Disc. When assembled, the crown of the disc protrudes into the holddown flange and the flat portion of the disc is clamped between the base and holddown flanges, providing a metal to metal seal. See Figure 1.

Fike's Bolted Type Rupture Disc Holders can be incorporated into a pressure system by welded or threaded connections bolted between ANSI companion flanges. The Poly-SD Bolted Type Rupture Disc Holder design is based on ANSI, JIS, and DIN B16.5 dimensional standards to provide compatibility with ANSI flanges. Standard flange dimensions and configurations, with assembly letter designations, are located in Table 1.

"G Insert" type rupture disc holders are furnished with a method of preassembly so the rupture disc may be installed at a workbench or some other convenient location. Once the disc is in place the unit may be assembled and installed into the line, minimizing the chance of damage to the rupture disc.

Flexible gaskets are not recommended for use between companion flanges and "G Insert" holders. However, when the minimum bolt load required to provide an adequate clamping of the disc is maintained and is compatible with the maximum non-flow compression characteristics of the gasket, then flexible gaskets may be used.

In most cases, the Poly-SD Bolted Type Rupture Disc Holder can be furnished in either of the configurations illustrated in Table 1. But when a threaded outlet (holddown flange) is required, the factory should be consulted before ordering.

When welded connections are required consult Fike for the schedule of pipe bore standardly available, or the required schedule of pipe bore must be specified by the customer.

Carbon steel and 316 SST are the standard materials of construction for G Insert Holders. However, Inconel® 600, Nickel 200/201, Monel® 400, Hastelloy® B/C, or other special materials can be furnished for either inlet or outlet flanges.

ORDERING INFORMATION

When ordering Poly-SD Bolted Type Rupture Disc Holders it is necessary to specify the following: Size, ANSI rating, type (Poly-SD), assembly letter (G, G Insert), and material requirements for the inlet and outlet. Studs and nuts of appropriate length will be furnished in standard material unless otherwise specified.

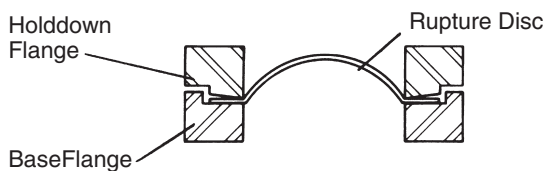
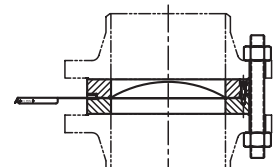


Figure 1
Poly-SD Holder Assembly



ASSEMBLY G1
FLAT FACED BASE
FLAT FACED HOLDDOWN

APPROVALS:

- ASME
- CE Marked



Nominal Size	ANSI Rating	Max. Pressure @ 72°F	Outside Diameter	Studs		Stud Length	Approx. Overall Height	
			GI	No.	Size	GI	GI (1/4 NPT)	GI (1/2 NPT)
.50	150	275	1 3/4	4	1/2	5	1 3/4	-
	300	720	2	4	1/2	5	1 3/4	-
	600	1440	2	4	1/2	6	1 3/4	-
	900	2160	2 3/8	4	3/4	7	1 11/16	-
	1500	3600	2 3/8	4	3/4	7	1 11/16	-
.75	150	275	2 1/8	4	1/2	5	1 3/4	2
	300	720	2 1/2	4	5/8	6	1 11/16	1 15/16
	600	1440	2 1/2	4	5/8	6	1 11/16	1 15/16
	900	2160	2 5/8	4	3/4	7	1 5/8	1 7/8
	1500	3600	2 5/8	4	3/4	7	1 5/8	1 7/8
1	150	275	2 1/2	4	1/2	5	1 3/4	2
	300	720	2 3/4	4	5/8	6	1 11/16	1 15/16
	600	1440	2 3/4	4	5/8	6	1 11/16	1 15/16
	900	2160	3	4	7/8	7	1 5/8	1 7/8
	1500	3600	3	4	7/8	7	1 5/8	1 7/8
1.50	150	275	3 1/4	4	1/2	5	1 3/4	2
	300	720	3 5/8	4	3/4	6	1 11/16	1 15/16
	600	1440	3 5/8	4	3/4	7	1 11/16	1 15/16
	900	2160	3 3/4	4	1	8	1 11/16	1 15/16
	1500	3600	3 3/4	4	1	8	1 11/16	1 15/16
2	150	275	4	4	5/8	6	1 11/16	1 15/16
	300	720	4 1/4	8	5/8	6	1 11/16	1 15/16
	600	1440	4 1/4	8	5/8	7	1 11/16	1 15/16
	900	2160	5 1/2	8	7/8	8	1 5/8	1 7/8
	1500	3600	5 1/2	8	7/8	8	1 5/8	1 7/8
3	150	275	5 1/4	4	5/8	6	1 11/16	1 15/16
	300	720	5 3/4	8	3/4	7	1 11/16	1 15/16
	600	1440	5 3/4	8	3/4	8	1 11/16	1 15/16
	900	2160	6 1/2	8	7/8	8	1 11/16	1 15/16
	1500	3600	6 3/4	8	1 1/8	10	1 7/8	2 1/8
4	150	275	6 3/4	8	5/8	6	1 11/16	1 15/16
	300	720	7	8	3/4	7	1 11/16	1 15/16
	600	1440	7 1/2	8	7/8	8	1 11/16	1 15/16
	900	2160	8	8	1 1/8	10	1 15/16	2 3/16
	1500	3600	8	8	1 1/4	11	1 7/8	2 1/8
6	150	275	8 5/8	8	3/4	7	1 15/16	2 3/16
	300	720	9 3/4	12	3/4	8	1 15/16	2 3/16
	600	1440	10 3/8	12	1	10	1 15/16	2 3/16
	900	2160	11 1/4	12	1 1/8	11	1 15/16	2 3/16
	1500	3600	10 7/8	8	3/4	7	2 1/4	2 1/4
8	300	720	12	12	7/8	9	2 1/4	2 1/4
	600	1440	12 1/2	12	1 1/8	11	2 3/4	2 3/4
	1500	2160	13 1/4	12	7/8	8	2 9/16	2 9/16
10	300	720	14 1/8	16	1	10	2 9/16	2 9/16
	600	1440	15 5/8	16	1 1/4	13	3 7/16	3 7/16
	1500	2160	16	12	7/8	8	2 11/16	2 11/16
12	300	720	16 1/2	16	1 1/8	10	2 11/16	2 11/16
	600	1440	-	20	1 1/4	-	-	-
	1500	2160	17 5/8	12	1	10	3 5/16	3 5/16
14	300	720	19	20	1 1/8	11	3 5/16	3 5/16
	600	1440	-	20	1 3/8	-	-	-
	1500	2160	20 1/8	16	1	10	3 9/16	3 9/16
16	300	720	21 1/8	20	1 1/4	12	3 9/16	3 9/16
	600	1440	-	20	1 1/2	-	-	-
	1500	2160	21 1/2	16	1 1/8	11	3 3/4	3 3/4
18	300	720	23 3/8	24	1 1/4	13	3 3/4	3 3/4
	600	1440	-	20	1 5/8	-	-	-
	1500	2160	23 3/4	20	1 1/8	11	4 3/8	4 3/8
20	300	720	25 1/2	24	1 1/4	13	4 3/8	4 3/8
	600	1440	-	24	1 5/8	-	-	-
	1500	2160	28 1/8	20	1 1/4	13	3 9/16	4 13/16
24	300	720	30 3/8	24	1 1/2	15	4 3/8	4 7/8
	600	1440	-	24	1 7/8	-	-	-

Notes:

- Consult factory for overall height when using gauge taps greater than 1/4 NPT.
- The crown of the rupture disc is not contained by the holder outlet in sizes 8" and larger for the G insert assemblies.