Data Sheet

CONVENTIONAL BOLTED TYPE SERIES

DESCRIPTION

The typical Conventional Bolted Type Rupture Disc Holder is a two-piece unit consisting of a base flange (inlet) and a holddown flange (outlet). The 30° angular seating surfaces of these flanges are machined to grip Fike's Conventional P/CPV and HO/HOV Series Rupture Discs. When assembled, the crown (bulged portion) of the disc protrudes into the holddown flange and a metal to metal seal is provided.

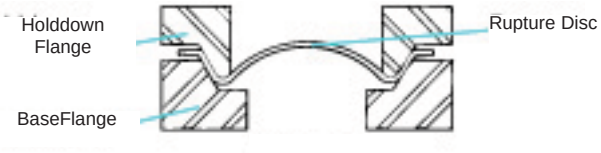


Figure 1

Fike's Bolted Type Rupture Disc Holder can be incorporated into a pressure system by welded or threaded connections bolted between ANSI companion flanges. The Bolted Type Rupture Disc Holder design is based on ANSI B16.5 dimensional standards to provide compatibility with ANSI, JIS, and DIN flanges.

"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 the "G" or "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.

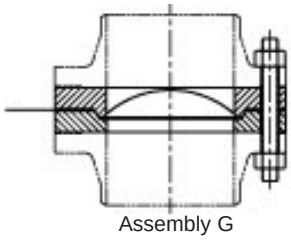
When welding connections are required consult Fike for the schedule of pipe bore standardly available, or the required schedule of pipe bore must be specified by the customer.

To overcome slippage of a rupture disc in a high pressure application, Fike has designed a heavy lip disc and holder combination.

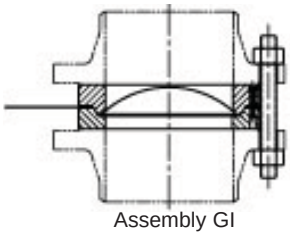
Carbon steel and 316 Stainless steel are the standard materials of construction. Monel® 400, Inconel® 600, Hastelloy® B/C and other materials can be furnished.

ORDERING INFORMATION

When ordering Conventional Bolted Type Rupture Disc Holder it is necessary to specify the following: Size, ANSI rating, configuration, and material requirements for the inlet and outlet. Studs and nuts of appropriate length will be furnished in standard material unless otherwise specified.



Assembly G
Flat Faced Base
Flat Faced Holddown



Assembly GI
Flat Faced Base
Flat Faced Holddown

Form No. R.1.18.01

Nominal Size	ANSI Rating	Max. Pressure	Outside Diameter		Bolt Circle	Studs		Stud Length		Approx. Overall Height	
			G	GI		No.	Size	G	GI	G	GI
1/2	150	275	3 1/2	1 3/4	2 3/8	4	1/2	5	5	1 5/8	1 5/8
	300	720	3 3/4	2	2 5/8	4	1/2	5	5	1 5/8	1 5/8
	600	1440	3 3/4	2	2 5/8	4	1/2	6	5	1 5/8	1 5/8
	900	2160	4 3/4	2 3/8	3 3/4	4	3/4	7	7	1 3/4	1 5/8
	1500	3600	4 3/4	2 3/8	3 3/4	4	3/4	7	7	1 3/4	1 5/8
3/4	150	275	3 7/8	2 1/8	2 3/4	4	1/2	5	5	1 11/16	1 11/16
	300	720	4 5/8	2 1/2	3 3/4	4	5/8	6	5	1 11/16	1 11/16
	600	1440	4 5/8	2 1/2	3 1/4	4	5/8	6	6	1 11/16	1 11/16
	900	2160	5 1/8	2 5/8	3 1/2	4	3/4	7	7	1 11/16	1 11/16
	1500	3600	5 1/8	2 5/8	3 1/2	4	3/4	7	7	1 11/16	1 11/16
1	150	275	4 1/4	2 1/2	3 1/8	4	1/2	5	5	1 11/16	1 11/16
	300	720	4 7/8	2 3/4	3 1/2	4	5/8	6	6	1 11/16	1 11/16
	600	1440	4 7/8	2 3/4	3 1/2	4	5/8	6	6	1 11/16	1 11/16
	900	2160	5 7/8	3	4	4	7/8	7	7	1 11/16	1 11/16
	1500	3600	5 7/8	3	4	4	7/8	7	7	1 11/16	1 11/16
1 1/2	150	275	5	3/4	3 7/8	4	1/2	5	5	1 3/4	1 3/4
	300	720	6 1/8	3 5/8	4 1/2	4	3/4	6	6	1 3/4	1 3/4
	600	1440	6 1/8	3 5/8	4 1/2	4	3/4	7	7	1 3/4	1 3/4
	900	2160	7	3 3/4	4 7/8	4	1	8	8	1 11/16	1 11/16
	1500	3600	7	3 3/4	4 7/8	4	1	8	8	1 11/16	1 11/16
2	150	275	6	4	4 3/4	4	5/8	6	6	1 11/16	1 11/16
	300	720	6 1/2	4 1/4	5	8	5/8	6	6	1 3/4	1 3/4
	600	1440	6 1/2	4 1/4	5	8	5/8	7	7	1 3/4	1 3/4
	900	2160	8 1/2	5 1/2	6 1/2	8	7/8	8	8	1 3/4	1 3/4
	1500	3600	8 1/2	5 1/2	6 1/2	8	7/8	8	8	1 3/4	1 3/4
3	150	275	7 1/2	5 1/4	6	4	5/8	6	6	1 11/16	1 11/16
	300	720	8 1/4	5 3/4	6 5/8	8	3/4	7	7	1 3/4	1 3/4
	600	1440	8 1/4	5 3/4	6 5/8	8	3/4	8	8	1 3/4	1 3/4
	900	2160	9 1/2	6 1/2	7 1/2	8	7/8	8	8	1 11/16	1 11/16
	1500	3600	10 1/2	6 3/4	8	8	1 1/8	10	10	1 15/16	1 15/16
4	150	275	9	6 3/4	7 1/2	8	5/8	6	6	1 11/16	1 11/16
	300	720	10	7	7 7/8	8	3/4	7	7	1 11/16	1 11/16
	600	1440	10 3/4	7 1/2	8 1/2	8	7/8	8	8	1 3/4	1 3/4
	900	2160	11 1/2	8	9 1/4	8	1 1/8	9	9	1 11/16	1 11/16
	1500	3600	12 1/4	8	9 1/2	8	1 1/4	11	11	2 3/16	2 3/16
6	150	275	11	8 5/8	9 1/2	8	3/4	7	7	2 3/16	2 3/16
	300	720	12 1/2	9 3/4	10 5/8	12	3/4	8	8	2 3/16	2 3/16
	600	1440	14	10 3/8	11 1/2	12	1	10	10	2 3/16	2 3/16
	900	2160	15	11 1/4	12 1/2	12	1 1/8	11	11	2 3/16	2 3/16
8	150	275	13 1/2	10 7/8	11 3/4	8	3/4	7	7	2 1/4	2 1/4
	300	720	15	12	13	12	7/8	9	9	2 1/4	2 1/4
	600	1440	16 1/2	12 1/2	13 3/4	12	1 1/8	11	11	2 1/2	2 1/2
10	150	275	16	13 1/4	14 1/4	12	7/8	8	8	2 1/4	2 1/4
	300	720	17 1/2	14 1/8	15 1/4	16	1	9	9	2 1/4	2 1/4
	600	1440	20	15 5/8	17	16	1 1/4	-	12	-	2 11/16
12	150	275	19	16	17	12	7/8	8	8	2 1/4	2 1/4
	300	720	17 1/2	14 1/8	15 1/4	16	1	9	9	2 1/4	2 1/4
	600	1440	22	-	19 1/4	20	1 1/4	-	13	-	3 5/16
14	150	275	21	17 5/8	18 3/4	12	1	9	9	3	3
	300	720	23	19	20 1/4	20	1 1/8	11	11	3 9/16	3 9/16
	600	1440	-	-	20 3/4	20	1 3/8	-	-	-	-
16	150	275	23 1/2	20 1/8	21 1/4	16	1	9	9	3	3
	300	720	25 1/2	21 1/8	22 1/2	20	1 1/4	12	2	3	3 11/16
	600	1440	-	-	23 3/4	20	1 1/2	-	-	-	
18	150	275	25	21 1/2	22 3/4	16	1 1/8	10	10	3	3
	300	720	28	23 3/8	24 3/4	24	1 1/4	13	2	3	3 13/16
	600	1440	29 1/4	-	25 3/4	20	1 5/8	-	17	-	5 1/16
20	150	275	27 1/2	23 3/4	25	20	1 1/8	10	10	3 3/8	3 3/8
	300	720	30 1/2	25 1/2	27	24	1 1/4	13	13	4 3/16	4 3/16
	600	1440	-	-	27 1/2	24	1 5/8	-	-	-	-
24	150	275	32	28 1/8	29 1/2	20	1 1/4	11	11	3 9/16	3 9/16
	300	720	36	30 3/8	32	24	1 1/2	14	14	4 7/16	4 7/16
	600	1440	-	-	33	24	1 7/8	-	-	-	-