

## 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.

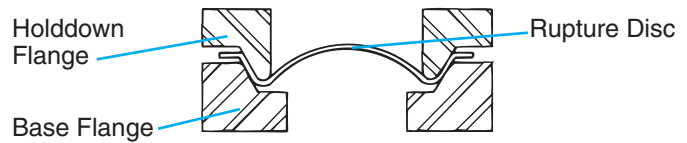


Figure 1

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 "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.

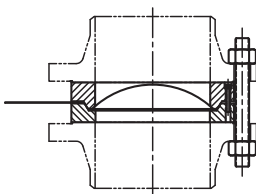
When welding connections are required consult Fike for the schedule of pipe bore standardly available, or the required schedule of pipe bore must be specified by the customer.

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<sup>®</sup> 400, Inconel<sup>®</sup> 600, Hastelloy<sup>®</sup> 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 GI  
FLAT FACED BASE  
FLAT FACED HOLDDOWN

Form No. R.1.18.01-1

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

- Approximate overall height will vary when installation 1/4 NPT gauge tap
- Consult factory for overall height when using gauge taps other than 1/4 NPT
- 1/4 NPT gauge taps will increase the overall height for 1/2 900 ANSI and 1/2 1500 ANSI holders
- The crown of the rupture disc is not contained by the outlet holder's in sizes 4" and larger for the G Insert assembly

## SEATING LIP DESIGNATIONS

Nominal Pipe Size	1/2	3/4	1	1 1/2	2	3	4	6	8	10	12	14	16	18	20	24
150 ANSI	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL
300 ANSI	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL	LL
600 ANSI	LL	LL	LL	LL	LL/HL	LL	LL	LL	LL							
900 ANSI	HL	HL	HL	HL	HL	HL	HL	HL								
1500 ANSI	HL	HL	HL	HL	HL	HL	HL									

LL = Light Lip    HL = Heavy Lip



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 Form No. R.1.18.01-1 July, 2011 Specifications are subject to change without notice.