

ACCESSORIES

JACKSCREWS

The use of jackscrews provides a means of separating piping flanges to allow for safe and easy installation of rupture discs or pre-assembled "G" or "G Insert" holders. Jackscrews are used only with bolted type series rupture disc holders. There are three methods of application that allow for differences in installation configurations.

Figure 1 illustrates the "Assembly F" showing that when studs and nuts are removed and the jackscrews are screwed down, the holddown will raise. This allows easy installation and removal of the rupture disc.

Free outlet holders (assemblies A, D and G) will be supplied with three jackscrews to balance the holddown when it is raised. All other holder configurations are supplied with two jackscrews equally spaced 180° apart.

Figure 2 illustrates the "Assembly G Insert" utilizing jackscrews. As shown, the customer must drill and tap the outlet companion flange at two places, 180° apart, to accept the jackscrews.

Figure 3 illustrates the "Assembly G" utilizing jackscrews. For this method of application the customer must weld the threaded lug and pad to the companion flanges (as shown), two places at 180° apart. Fike will furnish jackscrews, threaded lugs, and pads for customer installation.

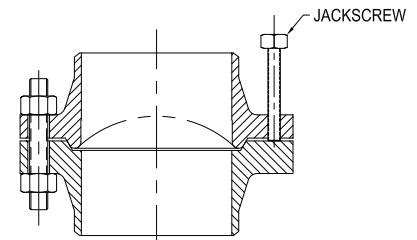


Figure 1

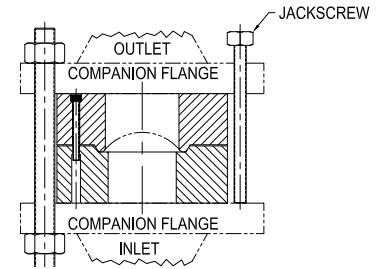


Figure 2

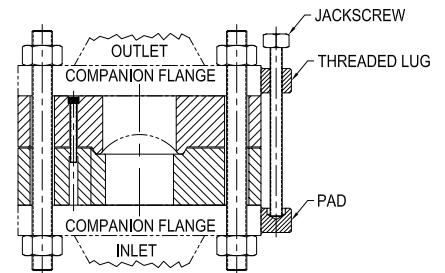


Figure 3

EYEBOLTS

Eyebolts (see figure 4) are primarily used in the handling of large or heavy rupture disc holders. In most cases, the standard nominal 1/2" eyebolt will meet application requirements, but other sizes may be specified as necessary. Fike will drill and tap the required size and number of holes to meet application requirements.

PRE-ASSEMBLY SCREWS

Pre-assembly screws, illustrated in figure 5, are provided on all Fike Bolted Type "Assembly G1" rupture disc holders. In the few cases where it is not dimensionally possible to utilize pre-assembly screws, side clips will be provided.

Pre-assembly screws allow the rupture disc to be positioned in the holder at a workbench (or some other convenient location) and then installed as a complete unit, reducing the chance for damage to the rupture disc. This is especially useful where piping is rigid and will not allow the use of jackscrews.

J-HOOK

Proper installation orientation of G and G Insert (GI) holders can be easily determined with the use of J-Hooks. The J-Hook is installed on the rupture disc holder inlet and mates with a drilled hole on the upstream companion flange (see figure 6).

GAUGE TAP

A gauge tap, illustrated in figure 7, provides a means of connection for a pressure gauge or excess flow valve on the downstream side of the rupture disc. The standard gauge tap is 1/4" or 1/2" NPT, but other sizes may be specified, subject to holder limitations.

EXCESS FLOW VALVE

When rupture discs are used in series, or in combination with pressure relief valves, an excess flow valve (figure 8) should be considered to bleed off any pressure build up between the components. When the rupture disc bursts, the overpressure pushes the excess flow valve. This action enables pressure relief devices to perform their functions, and prevents pressure build up between devices.

BURST INDICATOR

For a complete description of Burst Indicators, request our Burst Indication brochure.

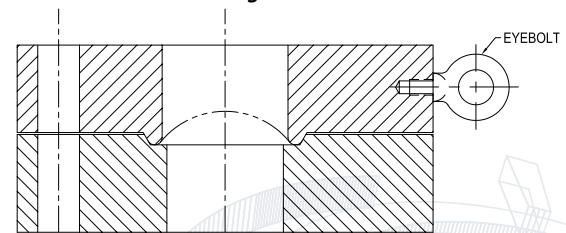


Figure 4

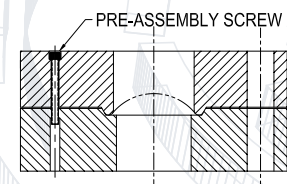


Figure 5

SPACER RING

A spacer ring (figure 9) is required when a rupture disc assembly is close-coupled to the inlet of a Pressure Relief Valve (PRV). The purpose of a spacer ring is to provide proper clearance for the rupture disc to open and not block the nozzle of the PRV. Fike spacer rings are supplied standard with one each 1/2" NPT in all sizes. Spacer rings are available in a variety of standard materials and will be supplied with studs and nuts to accommodate overall assembly heights.

O-RING OPTIONS FOR RUPTURE DISC HOLDERS

For emissions-conscious customers, an O-ring is available as an option for many standard Insert (GI), ATLAS, and TQ/TQ+ (pre-torque) holders as a secondary seal to contain any leak that may potentially escape the standard metal-metal seal. The O-ring groove is cut into either the base, holddown or both base and holddown side of the rupture disc holder. The following are Fike standard options available, however, Fike can also provide O-rings in other materials. Please specify.

Nominal Holder Size (IN)	Fike Part Number			O-Ring Size #
	Material: Viton®	Material: Teflon®	Material: Teflon Encapsulated Viton (TEF/Viton)	
1	RD4025-1-133	02-12138	02-8982	133
1.5 for SRL, SRX & Poly-SD Only	RD4025-1-133	02-12138	02-8982	133
1.5 for XL & ATLAS Only	RD4025-1-144	02-12139	02-12142	144
2	RD4025-1-151	02-12140	02-8801	151
3	RD4025-1-155	02-12115	02-8383	155
4	RD4025-1-252	02-12141	02-9050	252
6	RD4025-1-261	02-12517	02-12536	261
8	RD4025-1-269	02-12540	02-12537	269
10	RD4025-1-276	02-12541	02-12538	276
12	RD4025-1-279	02-12542	02-12539	279
14	RD4025-1-384	--	--	384
16	RD4025-1-386	--	--	386
18	RD4025-1-388	--	--	388
20	RD4025-1-390	--	--	390
24	RD4025-1-394	--	--	394

Notes:

- FFKM (Kalrez) and other materials available on request.
- PTFE O-rings may be subject to relaxation or "cold-flow". Other materials, such as Teflon® encapsulated Viton core, are generally recommended to provide a reliable seal.

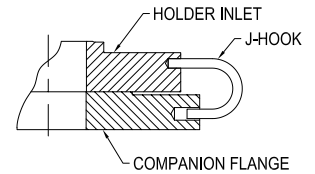


Figure 6

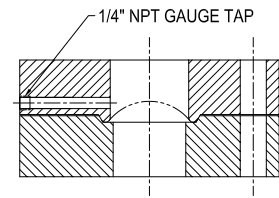


Figure 7

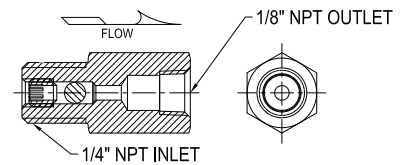


Figure 8

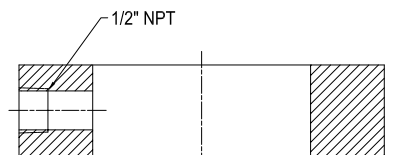


Figure 9