

BURSTING DISC HOLDER ACCESSORIES

Pre-assembly screws

Pre-assembly screws (fig.1) are provided on all Fike "GI" and "G" type bursting disc holders. In cases where it is dimensionally not possible to utilize pre-assembly screws, side clips will be provided.

Pre-assembly screws and side clips allow the bursting disc to be installed in the holder at the workbench (or some other convenient location) and then installed in the process piping system as a complete unit, reducing the risk of damage to the bursting disc.

Pre-assembly screws are optional on all other Fike holder assemblies if dimensionally possible.

Gauge taps

A gauge tap (fig.2) provides a means of connection for a pressure gauge or excess flow valve on the downstream side of the bursting disc. The standard gauge tap is 1/4" NPT. Other sizes may be specified subject to holder limitations.

Excess flow valve

When bursting discs are used in series or in combination with pressure relief valves, an excess flow valve (fig.3) should be considered to bleed off any pressure build-up between the components. When the bursting disc bursts, the overpressure pushes the ball into its seat, preventing further flow through the excess flow valve. This action enables the pressure relief devices to perform their functions, and ensures no pressure build-up between devices. International codes require the space between disc and valve be provided with a free vent (excess flow valve), a pressure gauge, a try cock or similar telltale device. This permits detection of disc bursting or leakage.

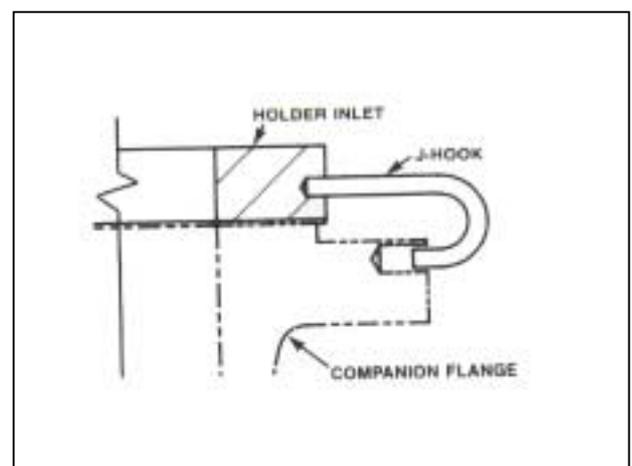
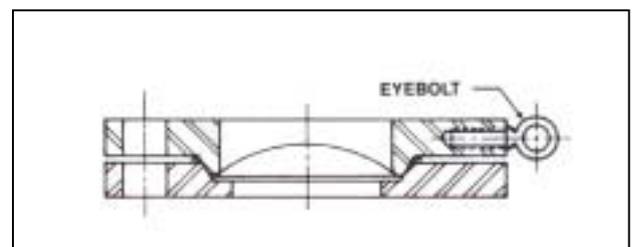
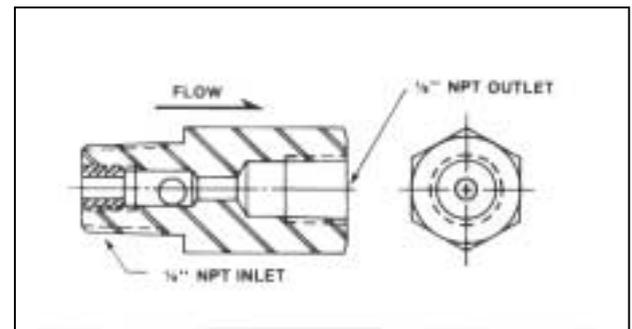
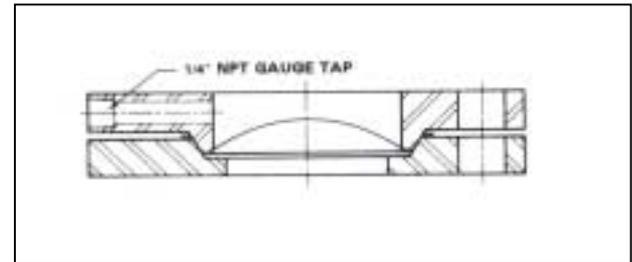
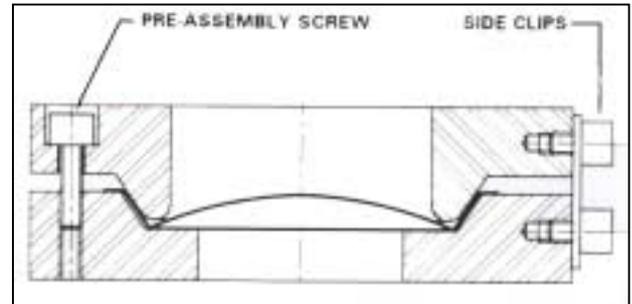
Eyebolts

Eyebolts (fig.4) are primarily used in the handling of large or heavy bursting disc holders. Fike will drill and tap the required size and number of holes to meet the application requirements.

J-hook

To avoid the risk of bursting disc holders being installed upside down all Fike bursting disc and holder nameplates have permanent flow arrows indicating the direction of the flow.

To further reduce this risk J-hooks (fig.5) are available to physically ensure the disc holder is installed the correct way into the pipeline.



Baffle plate

A baffle plate (fig.6) should be considered when a bursting disc assembly is free vented to the atmosphere. Its function is to redirect the discharge and absorb recoil, helping to protect personnel and surrounding equipment. Care must be taken to ensure that the baffle plate design allows for adequate relief area.

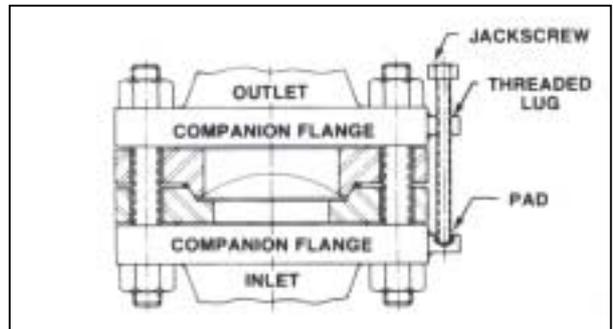
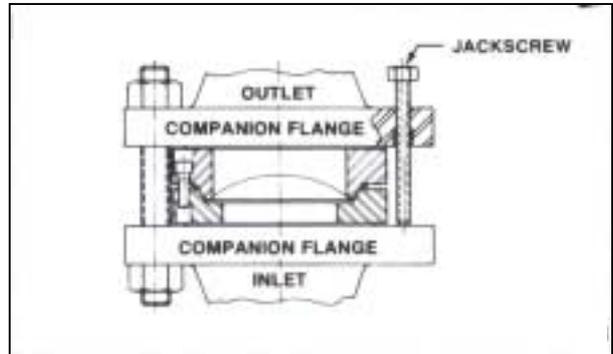
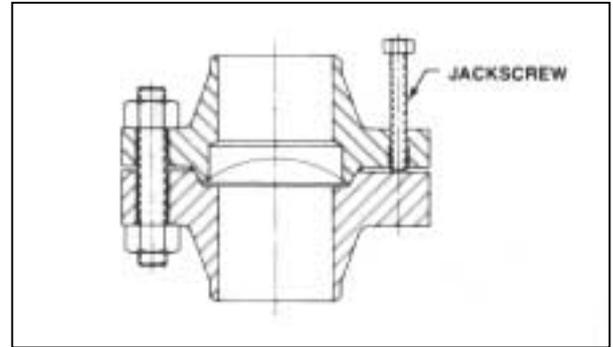
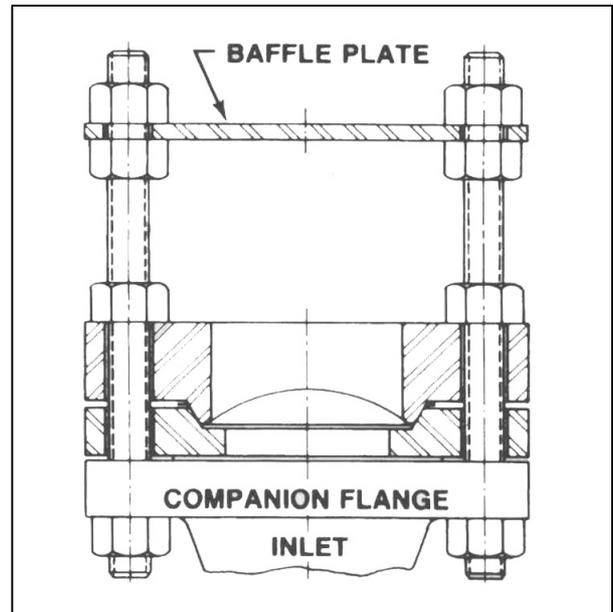
Jackscrews

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

Figure 7 illustrates the "assembly F" showing that when studs and nuts are removed and the jackscrews are screwed down, the holder will separate. This allows easy installation and removal of the bursting disc.

Figure 8 illustrates the "assembly G insert" utilizing jackscrews. As shown, holes must be drilled and tapped in the outlet companion flange at two places 180° apart to accept the jackscrews.

Figure 9 illustrates the "assembly G" utilizing jackscrews. For this method of application a threaded lug and pad must be welded to the companion flanges (as shown), at two places 180° apart.





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