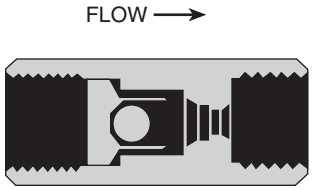
Excess Surge Check Valves

Excess surge check valves are used to eliminate loss of pressure due to a sudden surge or opening of a pressure component in a pressurized system (such as a breakage of a gauge or test component). These check valves should be mounted in the vertical position. Only one basic size is available (60-41HF9-E) with adapters readily available to convert to other size connections. Standard tubing glands and collars are provided unless otherwise specified.

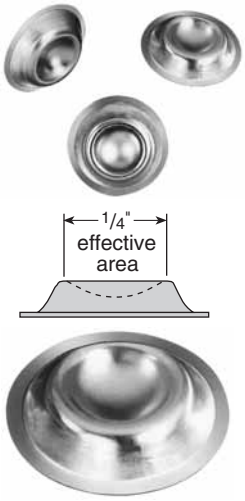


Catalog No.	psi	Connections	Length	Hex
60-41HF9-E	60,000	9/16" HIGH PRESSURE	3 1/8"	1 1/2"

Rupture Discs

1/4" Angled Seat

Standard rupture discs are available from stock in burst pressures as listed in the chart to the right. These discs are 316 stainless steel (except for 1000 psi which are inconel) and may be used with any of the safety heads shown. Note that these rupture discs are manufactured with a tolerance of plus 6% and minus 3% of specified burst pressure. Samples of each batch are then tested and the actual average burst pressure is stamped on the accompanying metal tag. Factors influencing rupture disc life include corrosion, metal fatigue, and cyclic effect. Periodic replacement is recommended to prevent premature failure. It is recommended that working pressure does not exceed 70% of burst rating for maximum life cycle of the disc.



SPECIAL DISCS are available on special order for pressure ranges not shown above and in numerous materials and coatings. Consult factory for price and delivery.

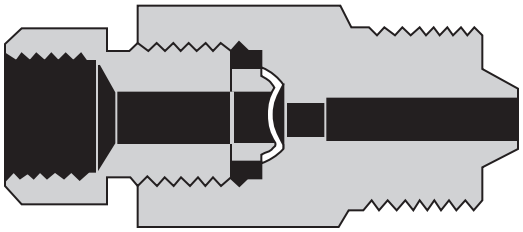
Standard Burst Pressures (in psi at 72°F)

1,000	3,000	5,000	7,000	9,000	11,000	17,500	25,000	37,500	55,000
1,500	3,500	5,500	7,500	9,500	11,500	18,000	27,000	40,000	60,000
2,000	4,000	6,000	8,000	10,000	12,500	20,000	30,000	45,000	65,000
2,500	4,500	6,500	8,500	10,500	15,000	22,500	35,000	50,000	

High Pressure Equipment Company
P.O. Box 8248 • 1222 Linden Ave. • Erie, PA 16505 U.S.A. • Phone: (814) 838-2028 • 1-800-289-7447 • Fax: (814) 838-6075 • E-Mail: sales@highpressure.com

R4 2/02

Safety Heads



A choice of three safety head designs is available, male inlet, female inlet (straight), and tee type. The male inlet design can be inserted directly into the tubing connections of valves and various fittings such as tees and crosses, or located in pressure vessels.

Outlet connections on all sizes are 3/8" pipe (NPT). This outlet may be connected to a suitable discharge line to vent pressure to a safe location in the event of bursting of the rupture disc. Torque required for sealing rupture discs will range from 40 to 90 foot pounds, depending upon pressure and media being used.

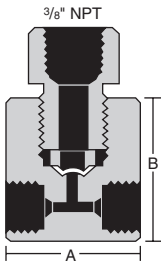
Material of bodies and hold down nuts is high tensile 316 stainless steel. Standard tubing glands and collars are provided unless otherwise specified.

Note: Rupture discs are **not** included and must be ordered as a separate item.



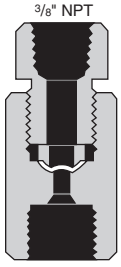
Male Inlet Safety Heads

Catalog No.	Pressure Rating psi	Inlet Connection	Length	Hex Size
60-61HM4	60,000	1/4" HIGH PRESSURE	1 7/8"	1 1/8"
60-61HM6	60,000	3/8" HIGH PRESSURE	2 1/8"	1 1/8"
60-61HM9	60,000	9/16" HIGH PRESSURE	2 3/8"	1 1/2"
40-61HM9	40,000	9/16" HIGH PRESSURE	2 3/8"	1 1/2"
30-61HM16	30,000	1" HIGH PRESSURE	3 1/2"	1 1/8"



Tee Type Safety Heads

Catalog No.	Pressure Rating psi	Inlet Connection	A	B	Thickness
60-63HF2	60,000	1/8" HIGH PRESSURE	1 1/2"	1 3/4"	1"
60-63HF4	60,000	1/4" HIGH PRESSURE	1 1/2"	1 3/4"	1"
60-63HF6	60,000	3/8" HIGH PRESSURE	2"	1 3/4"	1"
60-63HF9	60,000	9/16" HIGH PRESSURE	2 5/8"	2"	1 1/2"
40-63HF9	40,000	9/16" HIGH PRESSURE	2"	2 5/8"	1 1/2"



Female Inlet (Straight) Safety Heads

Catalog No.	Pressure Rating psi	Inlet Connection	Length	Hex Size
60-61HF2	60,000	1/8" HIGH PRESSURE	1 7/8"	1 1/8"
60-61HF4	60,000	1/4" HIGH PRESSURE	1 7/8"	1 1/8"
60-61HF6	60,000	3/8" HIGH PRESSURE	1 7/8"	1 1/8"
60-61HF9	60,000	9/16" HIGH PRESSURE	2 7/8"	1 1/2"
40-61HF9	40,000	9/16" HIGH PRESSURE	2 3/8"	1 1/2"