

Pneumatic accessories



HoseGuard[®] emergency shut-off valve

Hose / hose break valve Body

material: aluminium
Piston material: POM (1/4" ÷ 1/2")
 aluminium
 (3/4") **Spring material:** stainless
steel Sealing: NBR
Operating pressure: 18 bar (1/4" ÷ 3/4")
Operating temp: -20°C to +80°C (1/4" ÷ 3/4")

Characteristics:

An effective shut-off valve compatible with all pneumatic systems with standard compressed air consumption, designed to protect the operator and the pneumatic system in the event of damage to the system (e.g. pipe burst or hose burst).

Operating principle:

As air flows through the valve, it is slowed down by the longitudinal grooves on the outside of the piston. If the flow is too high (as a result of a failure, e.g. a hose break downstream of the valve), the pressure difference between the valve chambers increases as a result: the higher pressure in the first chamber pushes the piston against the spring towards the seat. The valve (piston) immediately closes leaving only a marginal residual flow in the damaged part of the system (some air can escape through the integrated vent). In this way, the damaged components can be safely replaced while the rest of the compressed air network can operate at full pressure. Once the fault has been rectified, the deactivated line refills until the previous operating pressure level is reached and the line can be used again. Meets the requirements of: EN 983 § 5.3.4.3.2, EN 4414 §5.4.5.11.1, ATEX Group II Category II, TÜV 01-02-0145, TÜV AZ 77318 2.

Selection:

The valve should be selected using the table below and taking into account: the flow rate, the length of the hose installed downstream of the HoseGuard[®] valve, as well as the internal diameters of the system components (the internal diameter of the HoseGuard[®] should be less than or equal to the internal diameter of the hose/pipe installed upstream and the same as the internal diameter of the hose installed downstream). If other components are fitted upstream of the valve, e.g. air preparation components, their flow rate should be greater than the selected HoseGuard[®] valve.

If you have any questions or concerns, please contact Tubes International.

valve size [inch]	hose length (up to 10 metres)			hose length (10 to 20 metres)		
	min. hose size [mm].	min. pressure [bar]	flow [l/min] (for Pe=6bar)	min. hose interior diameter [mm] min. pressure [bar]	min. pressure [bar]	flow [l/min] (for Pe=6bar)
1/4	7	4	480	8	4	480
3/8	10	4	1100	12	4	1100
1/2	12	4	2000	14	4	2000
3/4	18	4	3800	20	4	3800

index	inlet/outlet connection		length [mm]	SW [mm]
EW-396-032	GZ 1/4 BSP	GW 1/4 BSP	57	22
EW-396-033	GW 3/8 BSP	GW 3/8 BSP	76	27
EW-396-034	GW 1/2 BSP	GW 1/2 BSP	80	30

index	Connectio n inlet/outlet		length [mm]	SW [mm]
EW-396-022	GW 1/4 BSP	GW 1/4 BSP	48	22
EW-396-023	GW 3/8 BSP	GW 3/8 BSP	59	27
EW-396-024	GW 1/2 BSP	GW 1/2 BSP	65	30
EW-396-025	GW 3/4 BSP	GW 3/4 BSP	76	33 / 36