Pilot operated check valves MSV

One-way control valves with pilot operated check valve on page 469

Materials: Body and sleeve: Brass nickel-plated, seals: NBR, holding claws: Stainless steel (only silicone-free seals and lubricants are used during assembly)
Temperature range: -20°C to max. +80°C
Operating pressure: 0.5 - 10 bar
Media: Oiled and unoiled compressed air, neutral and non-hazardous gasses
Function: The check valve function can be used for a brief intermediate stop of an actuator. If a control signal is applied to the actuating connection, the flow between banjo and male threads is possible in both directions. If there is no control signal, the valve locks the flow from the male thread to the banjo (venting the actuator), thus causing it to stop briefly. The flow from the banjo to the male threads (towards the actuator) is unaffected by the control signal.

Type **without manual override**	G_2 actuation (FT)	Type **with manual override**	D_2 actuation (push-in fitting)	G_1 Screw-in thread	D Banjo connection
Banjo with female threads					
STOP 18 MSV	M 5	STOP 18 HN MSV	4	G 1/8"	G 1/8"
STOP 14 MSV	G 1/8"	STOP 14 HN MSV	4	G 1/4"	G 1/4"
Banjo with push-in fitting					
STOP 184 MSV	M 5	STOP 184 HN MSV	4	G 1/8"	4
STOP 186 NSV	M 5	STOP 186 HN NSV	4	G 1/8"	6
STOP 188 MSV	M 5	STOP 188 HN MSV	4	G 1/8"	8
STOP 146 MSV	G 1/8"	STOP 146 HN MSV	4	G 1/4"	6
STOP 148 MSV	G 1/8"	STOP 148 HN MSV	4	G 1/4"	8
STOP 1410 MSV	G 1/8"	STOP 1410 HN MSV	4	G 1/4"	10
STOP 1412 MSV	G 1/8"	STOP 1412 HN MSV	4	G 1/4"	12

Air-Saving valves - pressure regulator with check valves

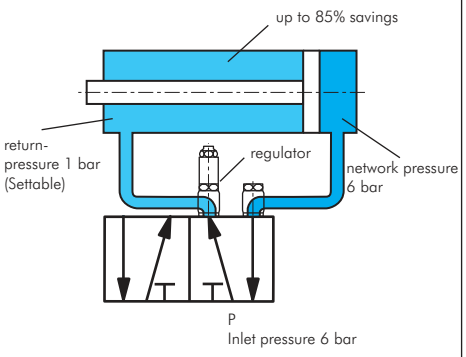
TIP ... save up to 85% air!

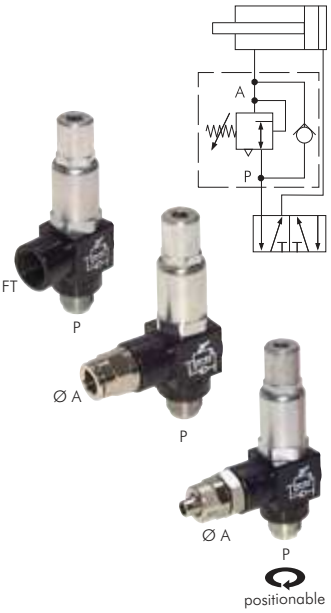
Temperature range: -10°C to max. +70°C
Operating pressure: 1 - 16 bar
Setting pressure: 1 - 8 bar
Media: Compressed air, neutral gases
Function:

- In many applications, the working pressure is only required in one direction. Consequently, significant air can be saved by reducing the reset pressure.
- The configured pressure also remains constant when the input pressure drops.
- If the primary pressure builds up from the thread side, the configured pressure will escape on the connection side. The compressed air can flow through a bypass in the opposing direction without a throttle. The pressure regulator can also be inserted behind a valve.

Type	P (MT)	FT	Ø A
Air-Saving valves with female threads			
RSV 18/i18	G 1/8"	G 1/8"	---
RSV 14/i14	G 1/4"	G 1/4"	---
RSV 38/i38	G 3/8"	G 3/8"	---
RSV 12/i12	G 1/2"	G 1/2"	---
Air-Saving valves with push-in fittings			
RSV 14/L4	R 1/4"	---	4
RSV 14/L6	R 1/4"	---	6
RSV 14/L8	R 1/4"	---	8
Air-Saving valves with hose connection			
RSV 14/RS4	R 1/4"	---	6 x 4
RSV 14/RS6	R 1/4"	---	8 x 6
RSV 14/RS8	R 1/4"	---	10 x 8

Application example as economy valve





Signal screw connections

Function: A pneumatic sensor fitting takes over the function of the limit switch (pneumatic or electric signal).
The screw connection is screwed into the input hole of a cylinder and scans the working pressure of the cylinder.
If the screw connection (figure 2) shows no pressure, the screw connection switches over from (P) 1 to (S) 5.
Operating pressure: 3 - 8 bar (PPM type: 3 - 10 bar)
Opening pressure: 0.6 bar (type PPL ...), 0.5 bar (type: PPE), 0.3 bar (type PPM ...)
Switching time: 3 ms
Electrical connection values (valid for type PPE ...): Max. 2 A, DC: 0-48V, AC: 250V 50Hz
Caution: The pneumatic sensor fitting can only determine that the cylinder no longer moves. This can be: a) in the end position or b) when the cylinder is prevented from moving. For a more accurate position request, please use the pneumatic cylinder switch (further up on this page)

Pneumatic signal	Signal connection	**Electric signal (changer)**	Cable length	Thread female/male
With threaded connection				
PPL 18	M 5	PPE 18	2 m	G 1/8"
PPL 14	M 5	PPE 14	2 m	G 1/4"
With push-in fitting				
PPM 18	4 mm	---	---	G 1/8"
PPM 14	4 mm	---	---	G 1/4"
PPM 38	4 mm	---	---	G 3/8"

type PPL

type PPM

type PPE