2.5

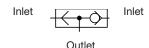
Shuttle valves type WV and WVC

Valves for pipe connection screw-in valves

 $\begin{array}{ll} \text{Pressure p}_{\text{max}} & = 700 \text{ bar} \\ \text{Flow Q}_{\text{max}} & = 125 \text{ lpm} \end{array}$

1. General information

The shuttle valve is a stop valve with two blockable inlets and one outlet. The inlet side with the higher pressure is connected to the outlet and the other inlet is blocked (DIN ISO 1219-1). The function is automatic.



2. Available versions, main data

Connection manner	Coding	Ød ¹) (mm)	Pressure p _{max} (bar) ²)	Flow Q _{max} (lpm)	Mass (weight) approx. (kg)	Schematic sectional drawing
For pipe connection	WV 6-S	6	700 500	6	120	
	WV 8-S	8		15	170	
	WV 10-S	10		25	230	
	WV 12-S	12		40	290	
	WV 14-S	14		60	320	
	WV 16-S	16		100	390	
	WV 18-L	18	315	125	350	
Screw-in valve	WVC 1		315	6	7	
	WVC 11 with PTFE threaded seal					

1) Precesion tube, seamless, DIN 2391 and 1629, Sheet 4

2) mechanical joint properly mounted

3. Additional data

Design Seated ball valve

Installation position Any, freely suspended in the pipe system (WV...) or screwed into a manifold (WVC..)

Pipe connection In the case of WV, via cutting ring fittings. The manufacturer's assembly instructions must be

observed. e.g. ERMETO

Static overload capacity > 2 x p_{max}

Burst pressure: WV 6 ... WV 10 > 2000 bar, WV 12 ... WV 16 > 1600 bar, WV 18 > 1000 bar

Pressure fluid Hydraulic oil conforming DIN 51524 part 1 to 3: ISO VG 10 to 68 conforming DIN 51519.

Viscosity limits: min. approx. 4, max. approx. 1500 mm²/sec; opt. operation: WV 6-S and WVC.. approx. 10 ... 300 mm²/sec

WV 8-S to WV 16-S approx. 10 ... 500 mm²/sec

A greater increase in the flow resistance can be expected for viscosities exceeding 300 mm²/sec in the case of WV 6-(8)S and WVC.. and at viscosities over 500 mm²/sec in the case of WV 8-S and WV 10-S. Also suitable for biological degradable pressure fluids types HEPG (Polyalkylenglycol) and HEES

(Synth. Ester) at service temperatures up to approx. +70°C.

Temperature Ambient: approx. -40 ... +80°C;

Fluid: -25 ... +80°C, Note the viscosity range!

Permissible temperature during start: -40° C (Note start-viscosity!), as long as the service temperature is at least 20K higher for the following operation. Biological degradable pressure fluids: Note manufacturer's specifications. By consideration of the compatibility with seal material not over +70°C.



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Shuttle valves type WV, WVC

Δp-Q curve

Type WV 6-S to WV 16-S

Type WVC 1 and WVC 11

Oil viscosity during the measurement 65 mm²/sec

Type WVC 1 and WVC 11

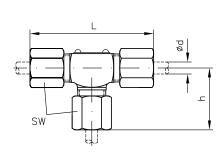
50

4. Unit dimensions

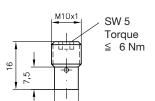
All dimensions are in mm and subject to change without notice!

0

Type WV 6-S to WV 18-L



SW = a/f



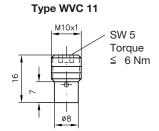
Type WVC 1

100

125

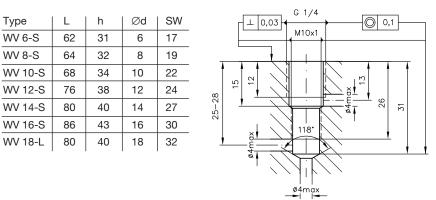
Flow Q (lpm)

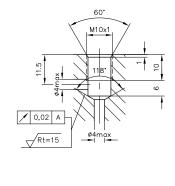
For mounting hole of customer furnished manifolds, see schematic drawing in sect. 2.



Flow Q (lpm)

Mounting hole





5. Application example

Combined remote control of prop. directional spool valves (e.g. type PSL and PSV acc. to D 7700 ++) via pressure reducing valves type FB and KFB acc. to D 6600.

