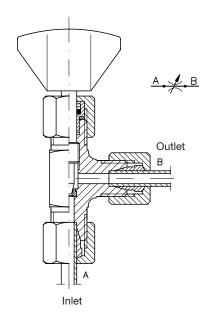
Operating pressure p_{max} = 630 bar Flow Q_{max} = 50 lpm

1. General

Conical seated shut-off valves for pipes to pressure chambers in general, to pressure gauges, pressure switch units, control lines, drain I ines, connecting lines etc. The allow the drainage (decompression) of pressurized volumes and also switching (pressure build-up) e.g. in the test rig etc. The functional parts are incorporated in the T-housing of standard pipe connections and allow direct pipe connection by way of an cutting ring and union nut. Valve seats and valve cones are hardened and ground, is electrogalvanized. This results in precise blocking of the opening when the valve is closes without the risk of de maging the cone (pressing in when closed too forcibly) and good protection against corrosion of the outside surfaces.



2. Types available, main data

Туре		Coding	Connecting pipe Ø _A (mm)	Operating pro	Mass (weight)		
			(11111)	Outlet B	Inlet A ²)	approx. g	
B	with pipe con- nection on both sides	AVT 6	6	630	630	140	
		AVT 8	8	630	630	175	
		AVT 10	10	630	630	230	
		AVT 12	12	630	630	315	
B B	with pipe socket on one side 1)	AVM 8	8	500	630	110	
		AVM 8 L	8	315	315	100	

- 1) Preferably as press.gauge shutoff valve. The pipe socket allows the combination with straight screw parts or angle pieces to adjustable connecting elements. Also see D 7077, Sk 6900 H or Sk 7200 M.
- 2) See sect. 3 "Operating pressure"

HYDRAULIK

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D 7690

2.4

3. Characteristic data

Designation and type Shut-of valve with threaded handle operation

Use For opening or closing (blocking) lines

Installation pos. and mounting Any, freely suspended in pipeline

Material and surface protection Steel. Seat and ball hardened and ground, housing surface galvanized and yellow chromated Flow direction $A \to B$, so that A is the inflow side or the pressure side to be blocked and so that

Preferably $A \to B$, so that A is the inflow side or the pressure side to be blocked and so that the blocked element (pressure gauge, pressure switch unit) or the continuing pressure line or return

line is at B.

Blocking Effective in both directions

Operating pressure p_{max} (Sect. 2); correspond to rated pressure with 4-fold safety against bursting

Pressure at B: Permissible system pressure when valve is open

Pressure at A: Permissible overload capacity at inlet A when the valve is closed

Hydraulic fluid Fluids acc. to DIN 51524 table 1 to 3; ISO VG 10 to 68 acc. to DIN 51519

Viscosity range: min. approx. 4; max. approx. 1500 mm²/s

Optimal operation range: approx. 10...500 mm²/s

Also suitable are biologically degradable pressure fluids of the type HEPG (Polyalkylenglycol)

and HEES (synth. Ester) at operation temperatures up to approx. +70°C.

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

Fluid: -25...+80°C, pay attention to the viscosity range!

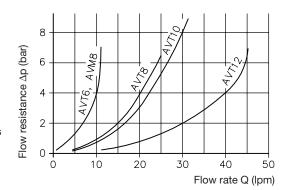
Start temperature down to -40°C are allowable (Pay attention to the viscosity range during start!), as long as the operation temperature during subsequent running is at least 20K higher. Biological degradable pressure fluids: Pay attention to manufacturer's information. With regard

to the compatibility with sealing materials do not exceed +70°C.

Δp-Q-Characteristics

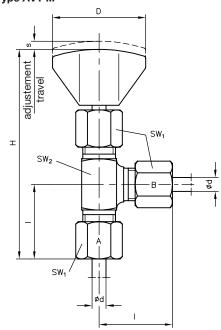
Valid for fullyopened valve

Oil viscosity during messurement approx. 60 mm²/s



4. Dimensions of units

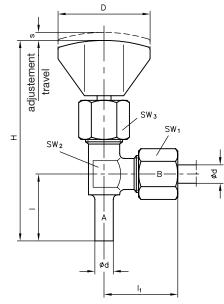
Type AVT ...



SW = a/f

Type	Н	D	Ød	1	s	SW ₁	SW ₂
AVT 6	91	40	6	31	3	17	14
AVT 8	94	40	8	32	3.5	19	17
AVT 10	94	40	10	34	4.5	22	19
AVT 12	114	50	12	38	5	24	22

Type AVM 8



Type	Н	D	Ød	I	l ₁	S	SW ₁	SW ₂	SW ₃	
8 MVA	91	40	8	29	32	3.5	19	14	19	
AVM 8 L	92	40	8	30.5	30	3.5	17	17	19	

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