Pressure-dependent shut-off valve type CDSV

for mounting in simple tapped holes

Pressure p _{max} = 600 bar	Further cartridge valves:	
Flow $Q_{max} = 8 \text{ lpm}$	 Pressure controlled 2/2-way directional valve type CNE 	D 7710 NE
	 Shut-off valves and throttles type CAV 	D 7711
	 Check valves type CRK, CRB, CRH 	D 7712
	 Throttle and restrictor check valves type CQ, CQR, and CQV 	D 7713
	 2-way flow control valve type CSJ 	D 7736
	 Pressure reducing valves type CDK 	D 7745

Pressure reducing valves type CDK

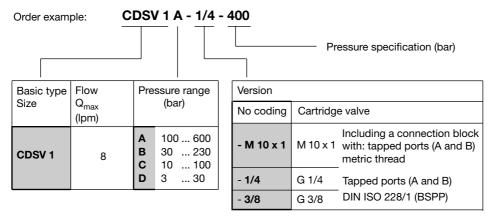
1. **General information**

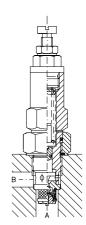
The shut-off valves type CDSV safeguard individual hydraulic consumers from higher pressure by blocking the inlet line. They are typically used to protect pressure gauges or accumulators. The valve is designed as a cartridge valve. The simple mounting hole can be easily machined by means of standard drill and screw tap.

The shut-off valve is a pressure actuated 2/2-way directional seated valve, enabling free flow from pump side A to consumer side B below the set pressure. A spring loaded control piston is moved upwards in the housing as soon as the set pressure is achieved. The actual valve element is a ball which is then no longer fixed in its position and therefore will follow the flow force (aided by a small spring) thereby blocking the passage with zero leakage.

As soon as the pressure on the primary side A drops below the one apparent at B, the passage will be opened again enabling free flow B to A.

2. Available versions, main data





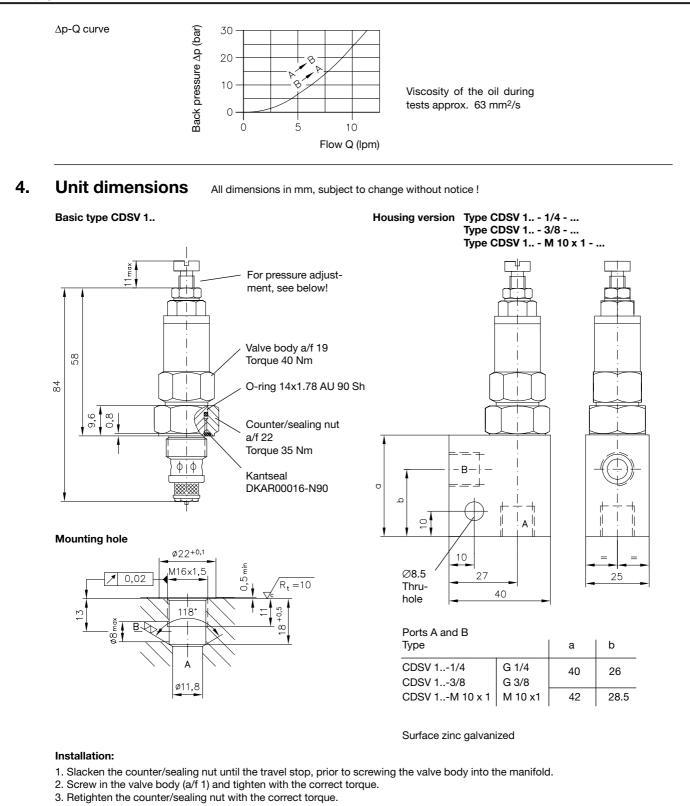
3. **Further parameters**

•		
Nomenclature	Pressure-dependent shut-off valve	
Design	Seated ball valve	
Surface	Nitrious hardened	
Installed position	Any	
Flow direction	Operation direction $A \rightarrow B$ Return flow $B \rightarrow A$	
Mass (weight)	Type CDSV 1. = approx. 140 g; Type CDSV 11/4 (- 3/8, - M 10 x 1) = approx. 400 g;	
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 mm ² /s Optimal operation range: approx. 10500 mm ² /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. There are also versions available for brake fluid (glycol based) = DOT 4. Coding for such versions is suffix - AT added to the order coding.	
Temperature	Ambient: approx40+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 degrad- able pressure fluids: Pay attention to manufacturer's information. With regard to the compatibility with sealing materials do not exceed +70°C.	
HYDRAULIK	HAWE Hydraulik GmbH & Co. KG STREITFELDSTR. 25 • 81673 MÜNCHEN	D 7876 Shut-off valve type CDSV

2.3

© 1999 by HAWE Hydraulik

February 2004-00



Tapped plugs

Mounting holes in the manifold may be blocked if required by tapped plugs, e.g. if uniform manufactured manifolds should be equipped with or without cartridge valves depending on application.

Pressure adjustment

Pressure	Travel f _{max} (mm)/
range	Δp (bar) per turn
D	6/6.4
С	5/23
В	4.5/50
А	4.5/135

Passage open

