Shut-off valves type DA and EA

Pressure $p_{max} = 700 \text{ bar}$ Flow $Q_{max} = 150 \text{ lpm}$

1. General information

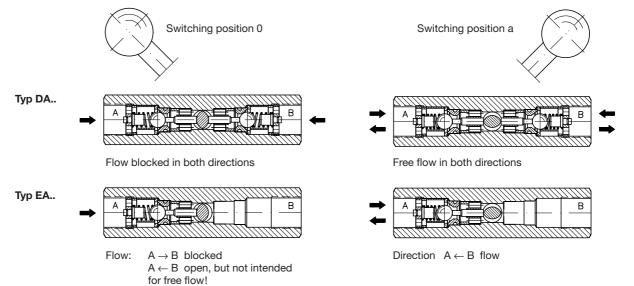
aThese 2/2-way directional seated valves are manually actuated and serve to block (zero leakage) the flow in one or both directions. They are mounted directly in the piping of hydraulic circuits.



2. Available versions, main data

Version	J		and Symbols ff valves Single acting		Pressure p _{max} (bar)	Flow Q _{max} (lpm)	Tapped ports A and B DIN ISO 228/1 (BSPP)
Standard, control lever with female thread M8 at the shaft end	DA 2		EA 2				
Control lever with cross drilling Ø3 at the shaft end	DA 2L	A → ◆B	EA 2L	AB	700	60	G 3/4
Actuation shaft with- out hand lever going through on both sides	DA 2B		EA 2B	d A B	700	60	G 3/4
Standard, actuation shaft with female thread M8 at the shaft end	DA 3	A B	EA 3	A B	500	150	G 1

Schematic drawing



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3. Further characteristic data

Design Seated ball valve

Material Steel, internal functional parts hardened and ground, valve ball made from bearing steel quality

Body surface Zinc galvanized

Mounting D(E)A 2.. in the piping

D(E)A 3 in the piping or via thread M8, see dimensional drawing (sect. 4)

Installation position D(E)A 2.. level, actuation lever up

D(E)A 3 arbitrary; level if vibrations may occur, actuation levers up

Actuation forces max. force at the end of the actuation lever with 500 bar:

and moments DA 2.. approx. 75 N

DA 3 approx. 300 N (EA.. approx. 60%)

max. moment with 500 bar: DA 2.. approx. 15 Nm;

DA 3 approx. 60 Nm (EA.. approx. 60%)

Static overload capacity 2.0 x p_{max}

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/s;

opt. operation approx. 10... 500 mm²/s.

Also suitable are biologically degradable pressure fluids types HEPG (Polyalkylenglycol) and

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

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

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

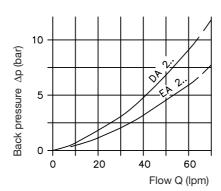
Permissible temperature during start: -40°C (observe start-viscosity!), as long as the service

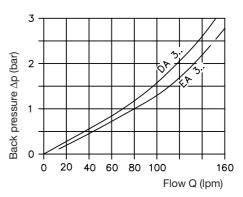
temperature is at least 20K higher for the following operation.

Biologically degradable pressure fluids: Observe manufacturer's specifications. By consideration

of the compatibility with seal material not over +70 °C.

 Δp -Q-curves





Oil viscosity during tests approx. 53 mm²/s

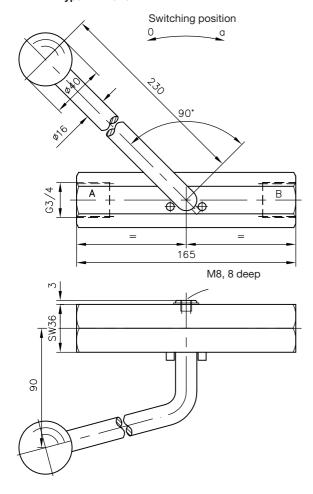
Mass (weight)

Type DA 2(L) = approx. 1.5 kg Type EA 2(L) = approx. 1.4 kg

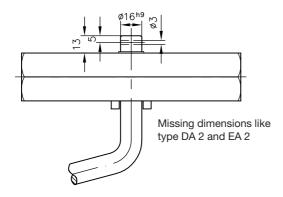
DA 2B = approx. 1.3 kg EA 2B = approx. 1.3 kg DA 3 = approx. 3.2 kg EA 3 = approx. 3.0 kg

4. Unit dimensions

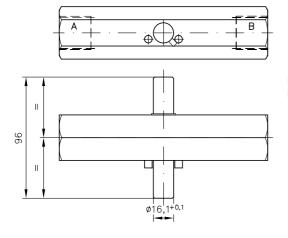
Type DA 2 and EA 2



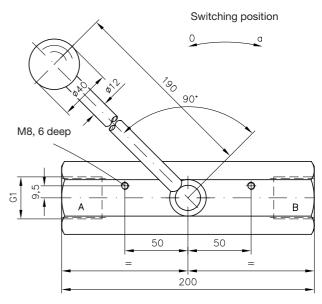
Type DA 2L and EA 2L

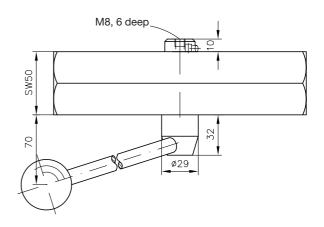


Type DA 2B and EA 2B



Type DA 3 and EA 3





M issing dimensions like type DA 2 and EA 2

All dimensions in mm and subject to change without notice!