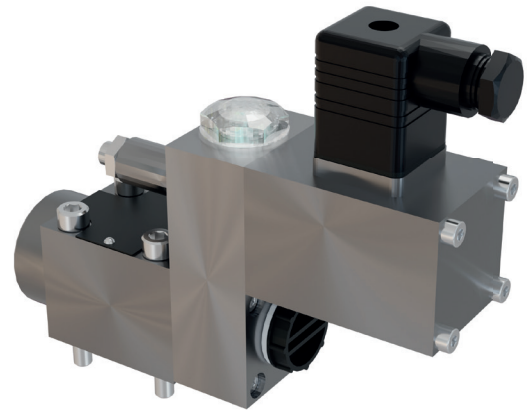


Proportional seat valve

2/2-ways

Features

- Directly actuated directional seat valve for liquid media
- Valve actuation by means of proportional solenoid
- The proportional solenoid is activated via the Hauhinco automatic control unit „Controller RE4“
- The valve seat provides a leak-free seal
- All parts are made of corrosion-resistant materials, and they are easily replaceable
- Valve fastening structural plate form with a Hauhinco Connection diagram

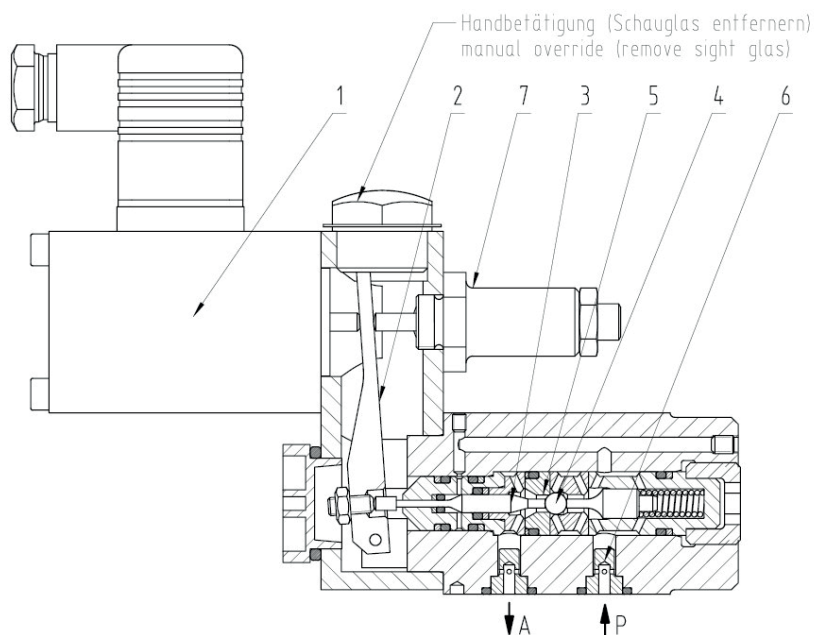


Function 2/2-way proportional seat valve

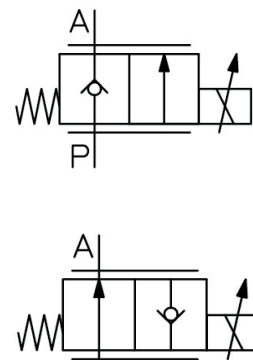
The generated magnetic force (1) acts via the lever (2), the tappet (3) onto the ball (4) and presses it out of the valve seat (5). This is used to connect lines P and A. The covers (6) support the flange seals from the inside and limits the maximum admissible volume flow. A defined actuating force can be preset (factory setting) by means of the counter-spring. The proportional solenoid is electrically activated by regulated current generated as the manipulated variable by the controlled electronic control unit, the Controller RE4. The controlled valve current specifies the degree of opening of the valve, thus, a hydraulic volume flow or pressure control can be performed.

Depending on the arrangement of the valve seat (5) and ball (4) the valve will have the basic position normally closed (NC) or normally open (NO).

Example 2-way proportional valve

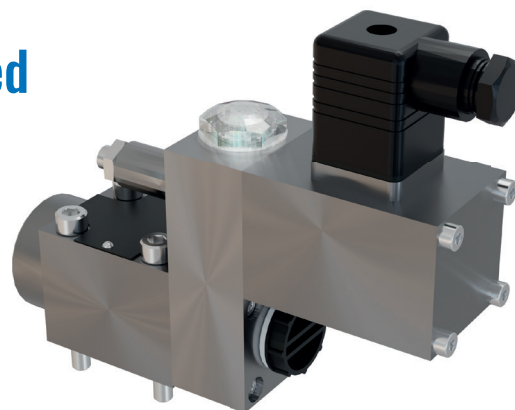


Symbol



Proportional seat valve, directly actuated DN3 | PN320, PN500 | 10l/min

2/2-ways



Technical data

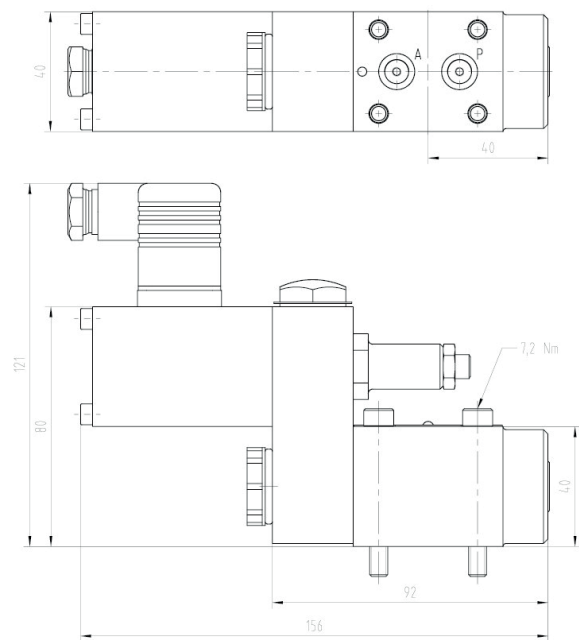
measured with HFA medium 97/3%, at 20°C

General		
Weight	1,9 kg	
Installation position	any	
Ambient temperature	-10 to 50°C (hydraulic fluids, heed standard requirements)	
Material Valve parts	Stainless steel, bronze except electromagnet NBR, PTFE	
Material Seals		
Hydraulic		
max. operating pressure of connector P	320bar	500bar
max. operating pressure of connector A	320bar	500bar
max. operating pressure of connector T	50bar	
max./min. control pressure of connector Z	see Order information	
max. volume flow P→A	10 l/min	
specified direction of flow	P→A,	
Pressure fluid	water, HFA	
- Medium - Temperature range	5 to 50°C	
- Medium - Quality	see Hauhinco requirements on water and HFA media	
- Cleanliness class, filter fineness	Calss -/18/15, filter fineness 25µm	
- Viscosity	0,6 bis 100 mm²/s	
Pressure fluid	mineral oil, HLP	
- Medium - Temperature range	-10 to 50°C	
- Medium - Quality	acc. to DIN 51524	
- Cleanliness class, filter fineness	Class -/18/15, filter fineness 25µm	
- Viscosity	0,6 bis 100 mm²/s	
Use of other pressure fluids on request.		
The covers (6) are designed with a viscosity of approx. 1.0 mm²/s; if a medium with a substantially different viscosity is used, the covers must be selected such that the maximum admissible volume flow is not exceeded.		
Electric		
Voltage	24 VDC	
Power consumption	21 W	
Operating time	100% ED	
Degree of protection acc. to EN60529	IP65	

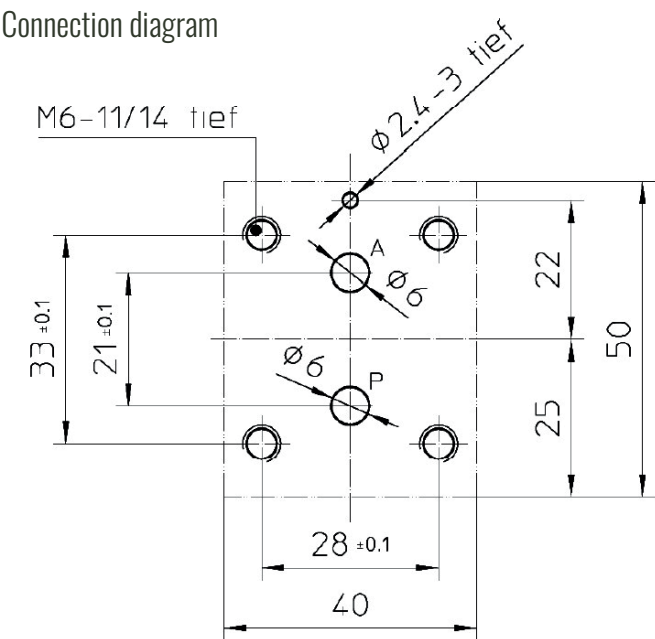
Order information

Included in the scope of supply			
Mounting screws of the valve		Cheese-head screw	
Cable socket of the valve solenoid - Supply voltage 24 VDC		according to DIN 43650 – type of design A max. 100 VA	
Designation	Basic position	Voltage	Article number
2/2-way proportional valve DN3 PN320	NC	24 VDC	6545718
	NO	24 VDC	6545726
2/2-way proportional valve DN3 PN500	NC	24 VDC	6547273
	NO	24 VDC	6547265

Dimensions



Connection diagram



Δp – qV characteristic curve

