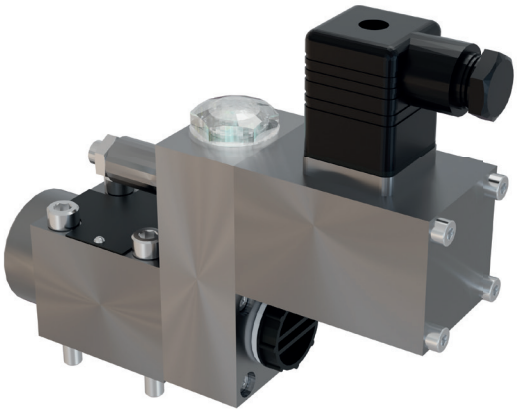
Proportional seat valve

2/2-ways



Features

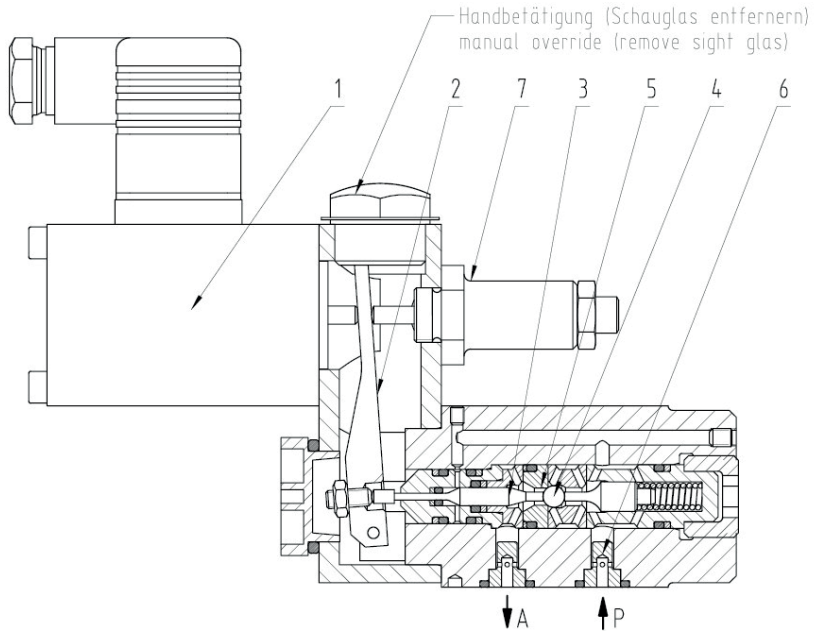
- Directly actuated directional seat valve for liquid media
- Valve actuation by means of proportional solenoid
- The proportional solenoid is activated via the Hauhinco automatic control unit „Controller RE4“
- The valve seat provides a leak-free seal
- All parts are made of corrosion-resistant materials,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

Function 2/2-way proportional seat valve

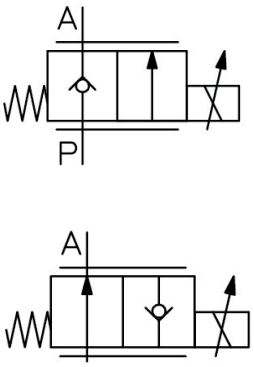
The generated magnetic force (1) acts via the lever (2), the tappet (3) onto the ball (4) and presses it out of the valve seat (5). This is used to connect lines P and A. The covers (6) support the flange seals from the inside and limits the maximum admissible volume flow. A defined actuating force can 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, ahydraulic 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

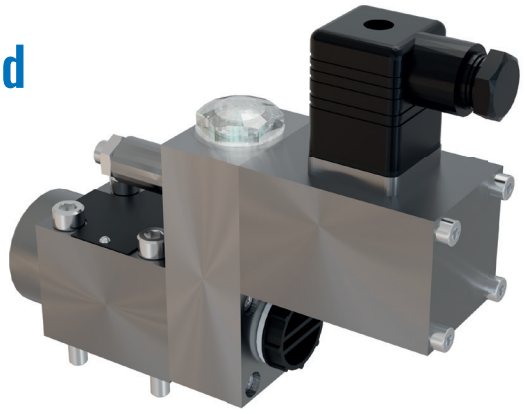


Symbol



Proportional seat valve, directly actuated DN10 | PN320, PN500 | 40l/min

2/2-ways



Technical data

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

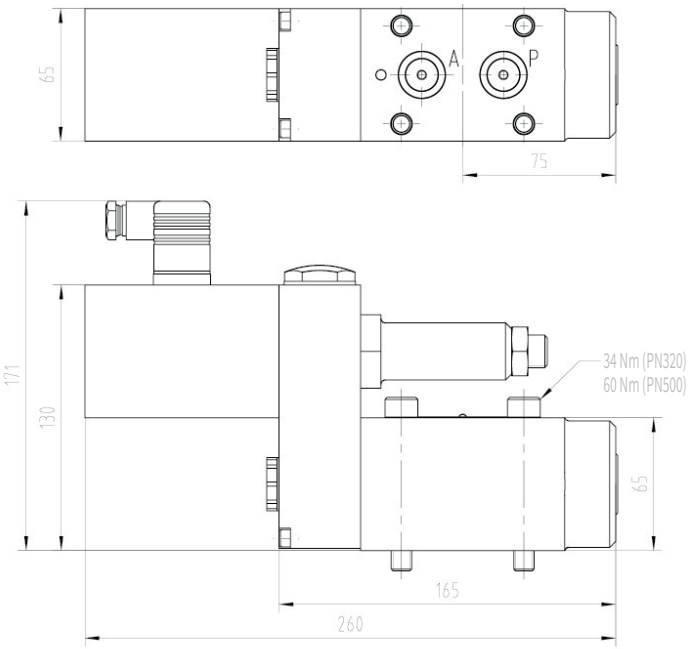
General		
Weight	8,5 kg	
Installation position	any	
Ambient temperature	-10 to 50°C (hydraulic fluids, heed standard requirements)	
Material Valve parts Material Seals	Stainless steel, bronze except electromagnet NBR, PTFE	
Hydraulic		
max. operating pressure of connector P	320bar	500bar
max. operating 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	40 l/min	
specified direction of flow	P→A,	
Pressure fluid - Medium - Temperature range - Medium - Quality - Cleanliness class, filter fineness - Viscosity	Wasser, HFA 5 to 50°C siehe Hauhinco Anforderungen an Wasser- und HFAMedien Klasse -/18/15, Filterfeinheit 25µm 0,6 bis 100 mm^2/s	
Pressure fluid - Medium - Temperature range - Medium - Quality - Cleanliness class, filter fineness - Viscosity	Mineralöl, HLP -10 to 50°C nach DIN 51524 Klasse -/18/15, Filterfeinheit 25µm 0,6 bis 100 mm^2/s	
Use of other pressure fluids on request.		
Die Blenden (6) sind ausgelegt auf eine Viskosität von ca. 1,0 mm^2/s, bei dem Einsatz eines Medium mit stark abweichender Viskosität sind die Blenden so zu wählen, dass der maximal zulässige Volumenstrom nicht überschritten wird.		
Electric		
Voltage	24 VDC	
Power consumption	21 W	
Operating time	100% ED	
Degree of protection acc. to EN60529	IP65	

Order information

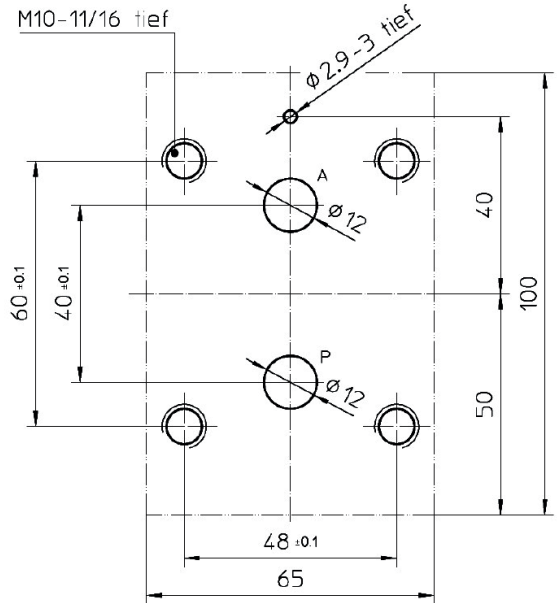
Included in the scope of supply	
Mounting screws of the valve	Cheese-head screw
Cable socket of the valve solenoid - Supply voltage 24 VDC	according to DIN 43650 – type of design A max. 100 VA

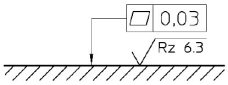
Designation	Basic position	Voltage	Article number
2/2-way proportional valve DN10 PN320	NC	24 VDC	6244270
	NO	24 VDC	6244289
2/2-way proportional valve DN10 PN500	NC	24 VDC	6553508
	NO	24 VDC	6547397

Dimensions



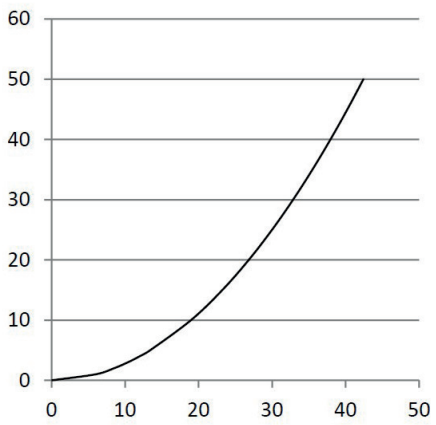
Connection diagram





Required surface quality of the counterpart

Δp – qV characteristic curve



Hauhinco Maschinenfabrik GmbH & Co. KG | Beisenbruchstraße 10 | 45549 Sprockhövel | Germany
Tel.: +49 2324/705-0 | Fax: +49 2324/705-222 | sales@hauhinco.de | www.hauhinco.com