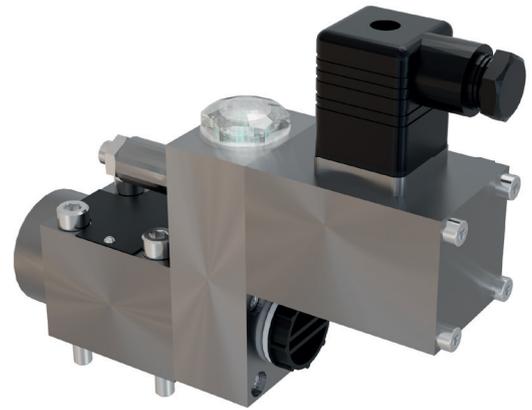


# Proportional seat valve

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

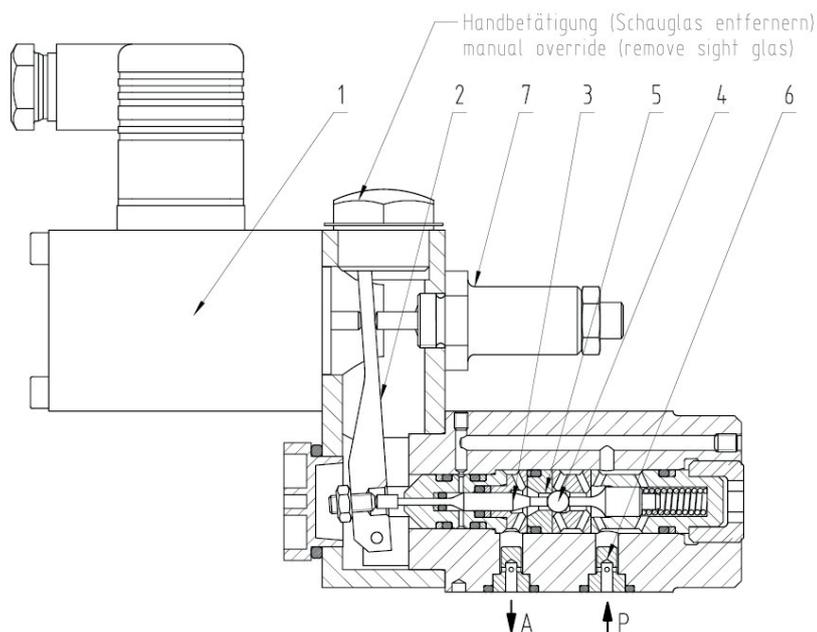


## Function 2/2-way proportional seat valve

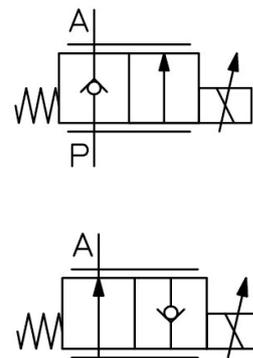
The generated magnetic force (1) acts via the lever (2), the tappet (3) onto the ball (4) and presses it out of the valve seat (5). This is used to connect lines P and A. The covers (6) support the flange seals from the inside and limits the maximum admissible volume flow. A defined actuating force can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

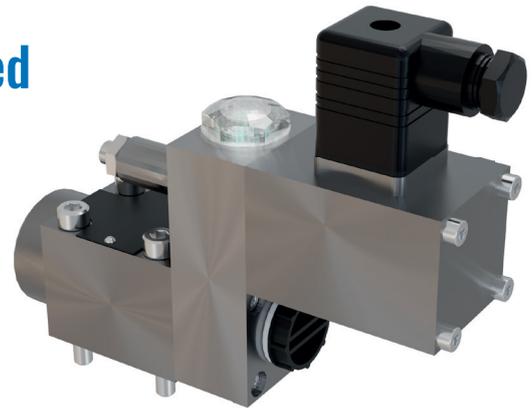


### Symbol



# Proportional seat valve, directly actuated DN6 | PN320, PN500 | 15l/min

2/2-ways



## Technical data

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

### General

Weight	3,8 kg
Installation position	any
Ambient temperature	-10 to 50°C (hydraulic fluids, heed standard requirements)
Material Valve parts	Stainless steel, bronze except electromagnet
Material Seals	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	15 l/min	
specified direction of flow	P→A,	
Pressure fluid	Wasser, HFA	
- Medium - Temperature range	5 to 50°C	
- Medium - Quality	siehe Hauhinco Anforderungen an Wasser- und HFAMedien	
- Cleanliness class, filter fineness	Klasse -/18/15, Filterfeinheit 25µm	
- Viscosity	0,6 bis 100 mm <sup>2</sup> /s	
Pressure fluid	Mineralöl, HLP	
- Medium - Temperature range	-10 to 50°C	
- Medium - Quality	nach DIN 51524	
- Cleanliness class, filter fineness	Klasse -/18/15, Filterfeinheit 25µm	
- Viscosity	0,6 bis 100 mm <sup>2</sup> /s	

Use of other pressure fluids on request.

The covers (6) are designed with a viscosity of approx. 1.0 mm<sup>2</sup>/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

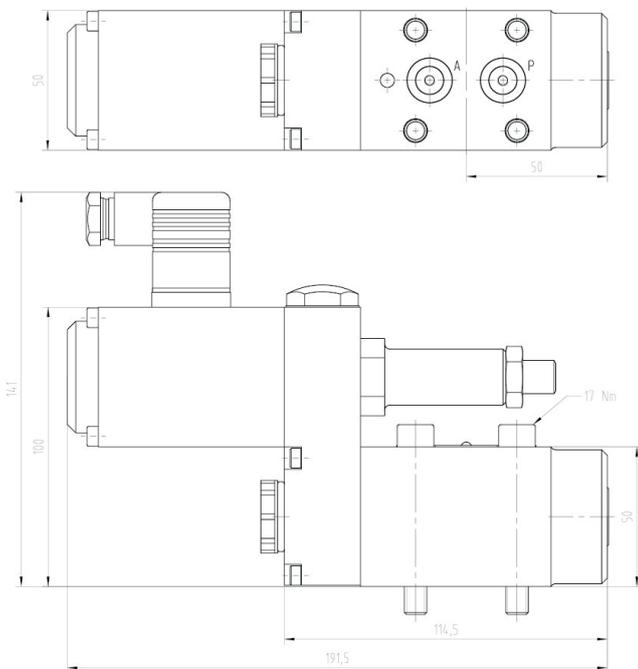
# Order information

## Included in the scope of supply

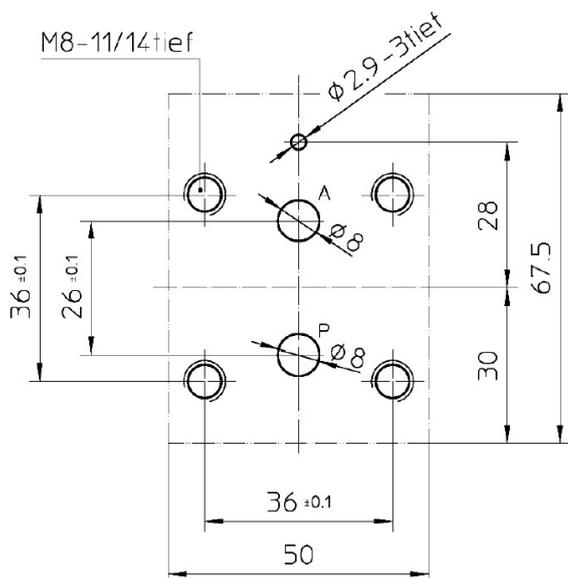
Mounting screws of the valve	Cheese-head screw
Cable socket of the valve solenoid - Supply voltage 24 VDC	according to DIN 43650 – type of design A max. 100 VA

Designation	Basic position	Voltage	Article number
2/2-way proportional valve DN6 PN320	NC	24 VDC	6546382
	NO	24 VDC	6546390
2/2-way proportional valve DN6 PN500	NC	24 VDC	6546943
	NO	24 VDC	6547230

## Dimensions



## Connection diagram



## $\Delta p - qV$ characteristic curve

