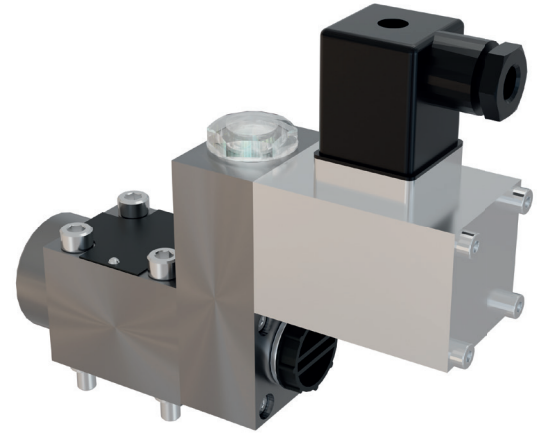


Directly actuated seat valves

2/2- and 3/2-way

Features

- Directly actuated directional seat valve controlling pressurised media.
- The valve seat seals hermetically preventing internal leaks.
- All parts are made of corrosion-resistant materials, and they are easily replaceable.
- Valve design in a structural plate form
- On request, the valve can be equipped with other actuations than the electromagnet, e.g. hydraulic or pneumatic cylinder actuation, manual pushbutton operation
- In addition, the individual actuations can be supplemented with a maintained-contact function

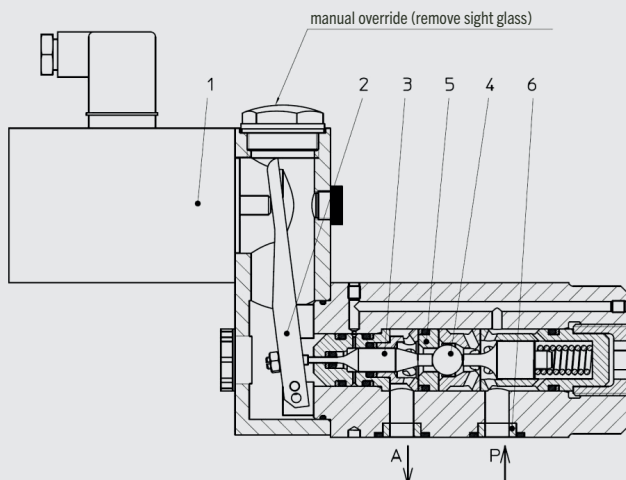


Function of 2/2-way valve

The force (1), generated by the actuation, acts through the lever (2), the tappet (3) on the ball (4) and presses it out of the valve seat (5). This is used to connect lines P and A, see Example. The ring (6) supports the flange seal from the inside. The volume flow is limited by the entire flow resistance.

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 2/2-way valve



Symbol



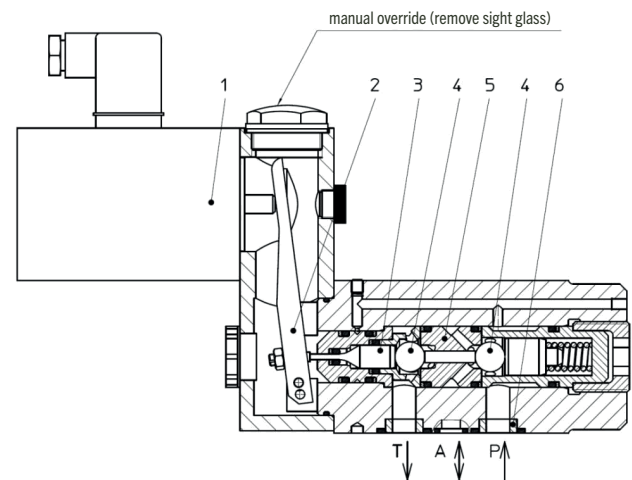
Function of 3/2-way valve

The force (1), generated by the actuation, acts through the lever (2), the tappet (3) on the ball(s) (4) and presses it out of the right valve seat (5) and into the left valve seat (5). This is used to connect lines P and A and shut off line T, see Example. The ring (6) supports the flange seal from the inside. The volume flow is limited by the entire flow resistance.

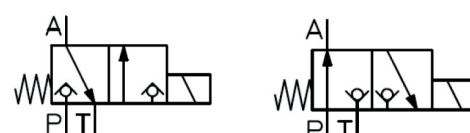
The 3/2-way valve is provided with a „negative overlap“. During the changeover process, connections P, A and T are briefly connected with each other. The changeover occurs so fast that the hydraulic effects are negligible. By design, a 3/2-way valve always requires the connection of a T-connector; only then a proper switching function can be ensured.

Depending on the design of the valve insert a valve with the basic position „A→T NO“ (lines A and T are connected) or „P→A NO“ (lines P and A are connected) is provided.

Example 3/2-way valve

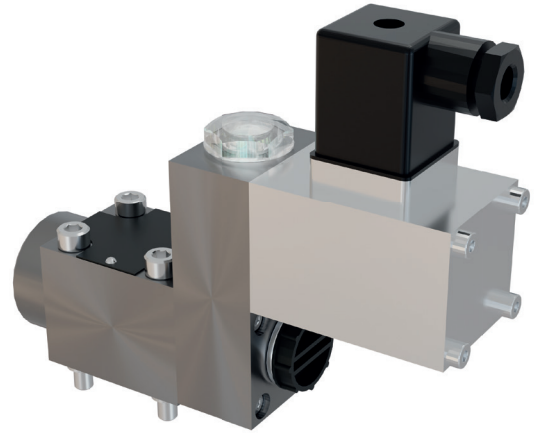


Symbol



Directly actuated seat valves DN10 | PN320 | 40l/min

2/2- and 3/2-ways



Technical data

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

General

Weight	see Order information
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
max. operating pressure of connector A	320bar
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
max. volume flow A→T	40 l/min
specified direction of flow	P→A, A→T
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	class 20/18/15, filter fineness 25µm
- Viscosity	0,6 bis 100 mm ² /s
Pressure fluid	mineral oil, HLP
- Medium - Temperature range	-10 to 50°C
- Medium - Quality	acc. to DIN 51524
- Cleanliness class, filter fineness	Class 20/18/15, filter fineness 25µm
- Viscosity	0,6 bis 100 mm ² /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, 110 VAC (96 VDC), 230 VAC (205 VDC)
AC grid, admissible tolerance	± 10%
AC grid, admissible frequency	50 to 60 Hz
Power consumption	36 W
Operating time	100% ED
Degree of protection acc. to EN60529	IP65
max. switching rate	1 Hz

Order information

Included in the scope of supply

Mounting screws of the valve	Cheese-head screw M10
Cable socket of the valve solenoid - Supply voltage 24 VDC - Supply voltage 110 VAC - Supply voltage 230 VAC	according to DIN 43650 – type of design A max. 100 VA, LED-display + Z-diode, IP65 max. 1.5 A, bridge rectifier, LED display, IP65 max. 1.5 A, bridge rectifier, LED display, IP65

2/2-way valve DN10 | PN320 | 40l/min

Designation	Basic position	Voltage	Article number
2/2-way valve DN10 PN320, solenoid actuation weight: 8,1kg	NC	24 VDC	6235557
	NC	110 VAC	6241964
	NC	230 VAC	6243649
2/2-way valve DN10 PN320, solenoid actuation weight: 8,1kg	NO	24 VDC	6235565
	NO	110 VAC	6241956
	NO	230 VAC	6243657

Designation	Basic position	approx. manual force	Article number
2/2-way valve DN10 PN320, pushbutton control with a catch, weight: 4,0kg	NO	100N	6568475
	NC	100N	6568483

Designation	Basic position	Voltage	Article number
2/2-way valve DN10 PN320, cylinder actuation pneumatic, hydraulic, weight: 8,1kg	NC	3-320bar	6237088
	NO	3-320bar	6237061

3/2-way valve DN10 | PN320 | 40l/min

Designation	Basic position	Voltage	Article number
3/2-way valve DN10 PN320, solenoid actuation weight: 8,1kg	A→T NO	24 VDC	6235530
	A→T NO	110 VAC	6241980
	A→T NO	230 VAC	6243622
3/2-way valve DN10 PN320, solenoid actuation weight: 8,1kg	P→A NO	24 VDC	6235549
	P→A NO	110 VAC	6241972
	P→A NO	230 VAC	6243630
3/2-way valve DN10 PN320, solenoid actuation with a catch, weight: 11,0kg	A→T NO	24 VDC	6576060
	P→A NO	24 VDC	6576079

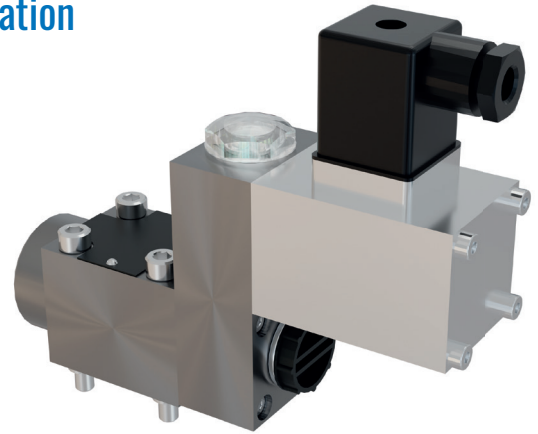
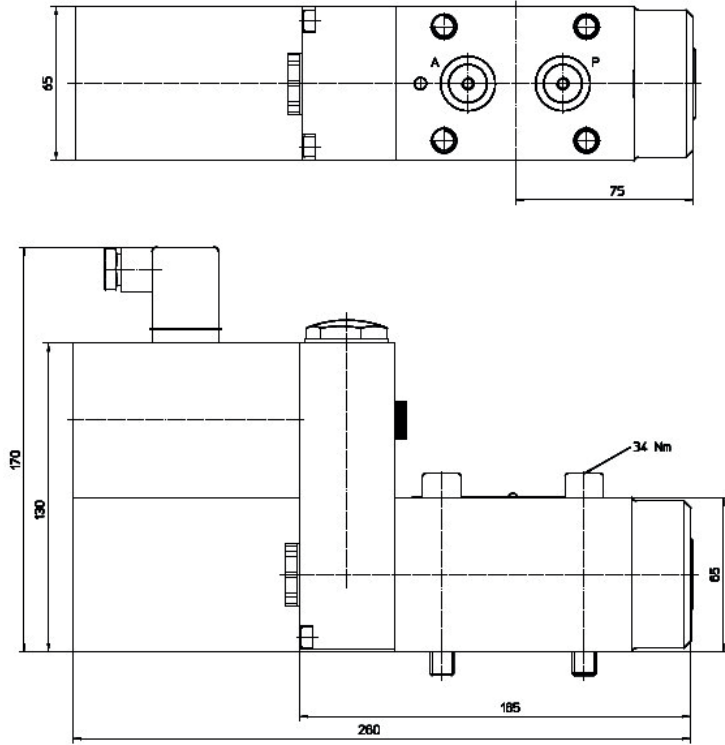
Designation	Basic position	Article number
3/2-way valve DN10 PN320, roller actuation weight: 7,1kg	A→T NO	6237703
	P→A NO	6237681

Designation	Basic position	adm. control pressure „Z“	Article number
3/2-way valve DN10 PN320, cylinder actuation pneumatic, hydraulic, weight: 8,1kg	A→T NO	3-320bar	6237053
	P→A NO	3-320bar	6237045

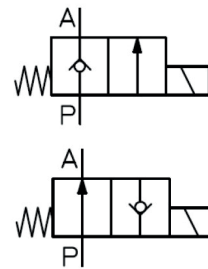
Designation	Basic position	approx. manual force	Article number
3/2-way valve DN10 PN320, pushbutton control with a catch, weight: 4,0kg	A→T NO	100N	6568491
	P→A NO	100N	6568505

2/2-way valve DN10 | PN320 | 40l/min, solenoid actuation

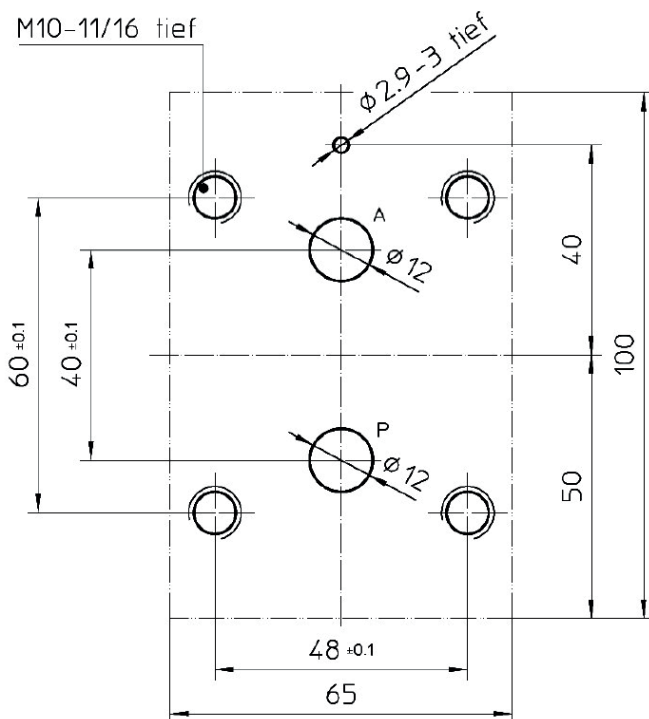
Dimensions



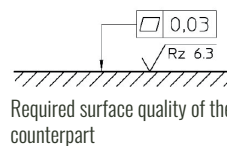
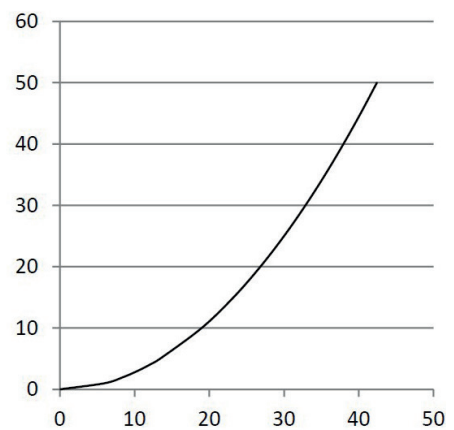
Symbol



Connection diagram

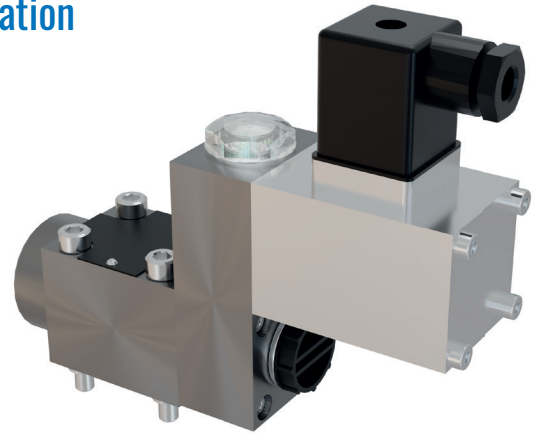
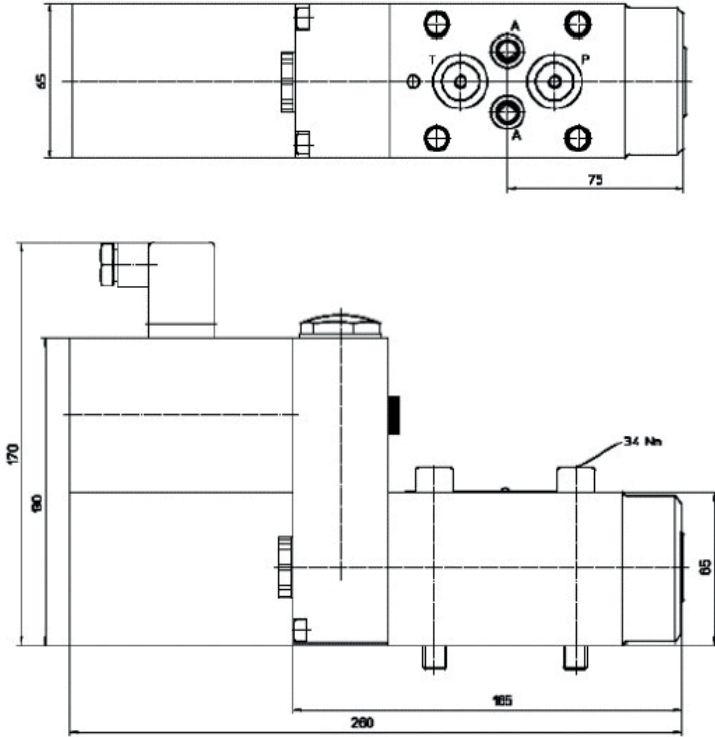


$\Delta p - qV$ characteristic curve

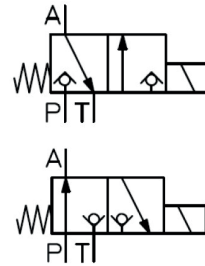


3/2-way valve DN10 | PN320 | 40l/min, solenoid actuation

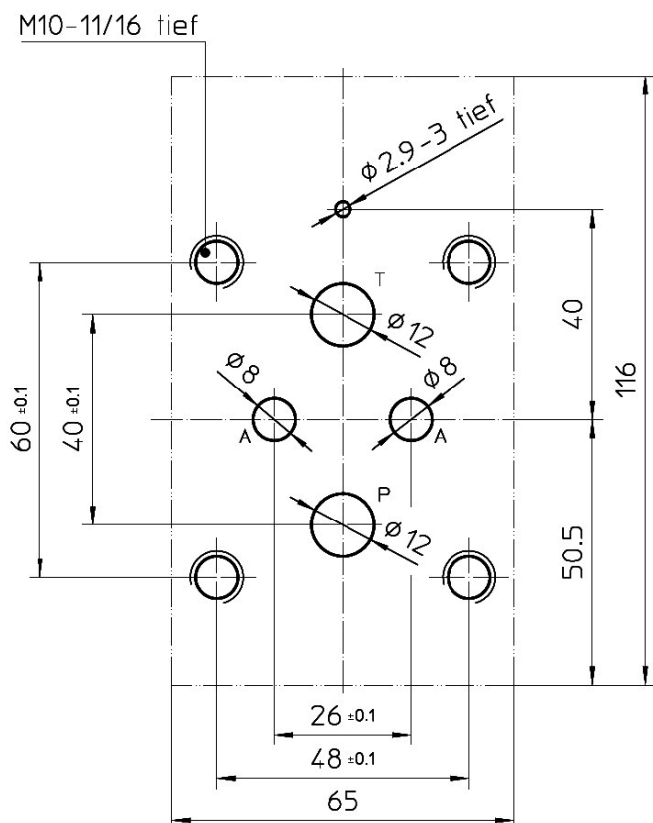
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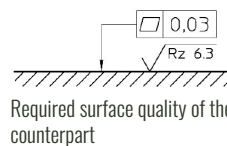
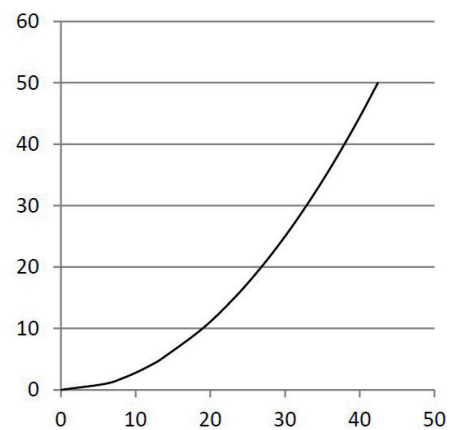
Symbol



Connection diagram

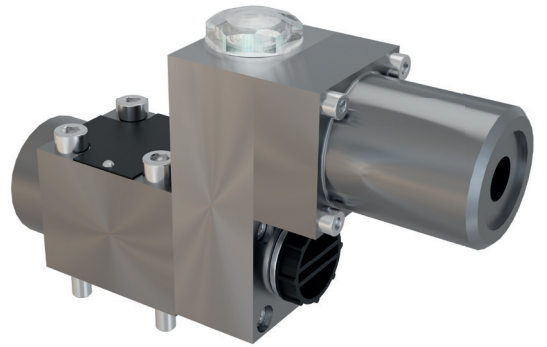
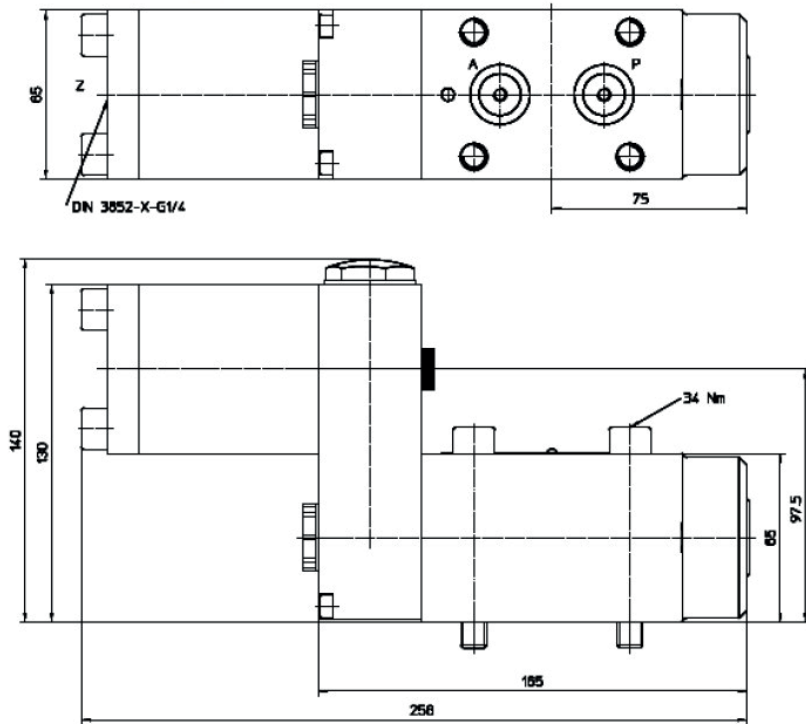


$\Delta p - qV$ characteristic curve

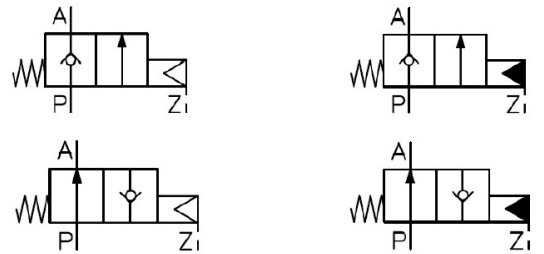


2/2-way valve DN10 | PN320 | 40l/min, cylinder actuation

Dimensions

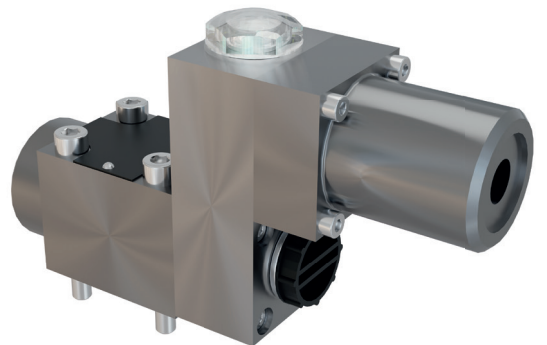
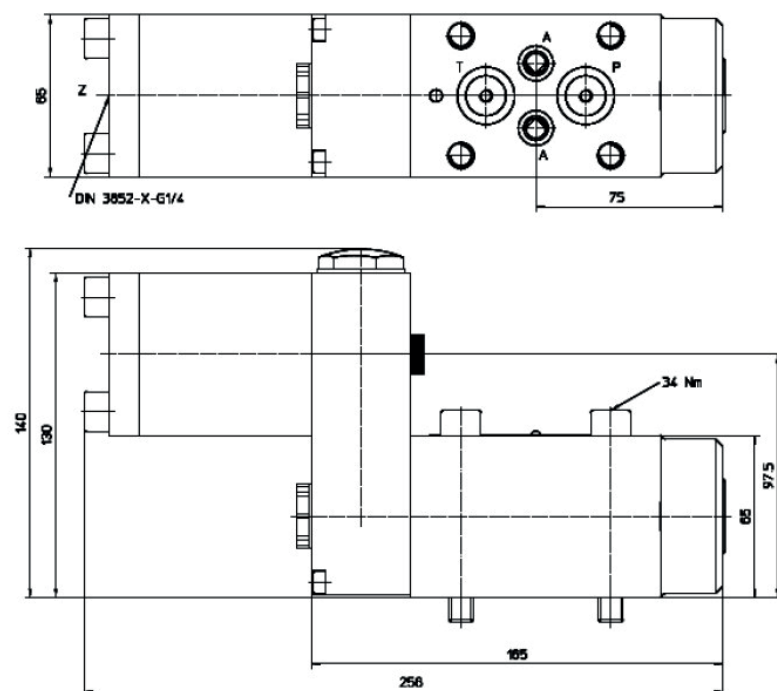


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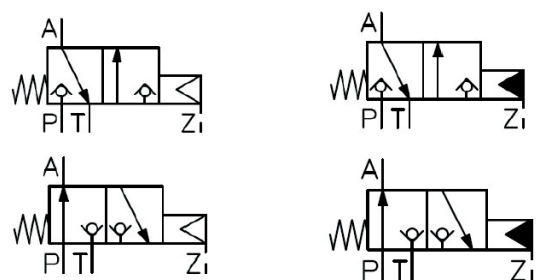


3/2-way valve DN10 | PN320 | 40l/min, cylinder actuation

Dimensions

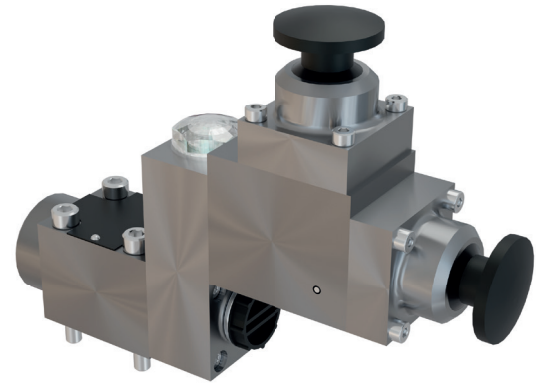
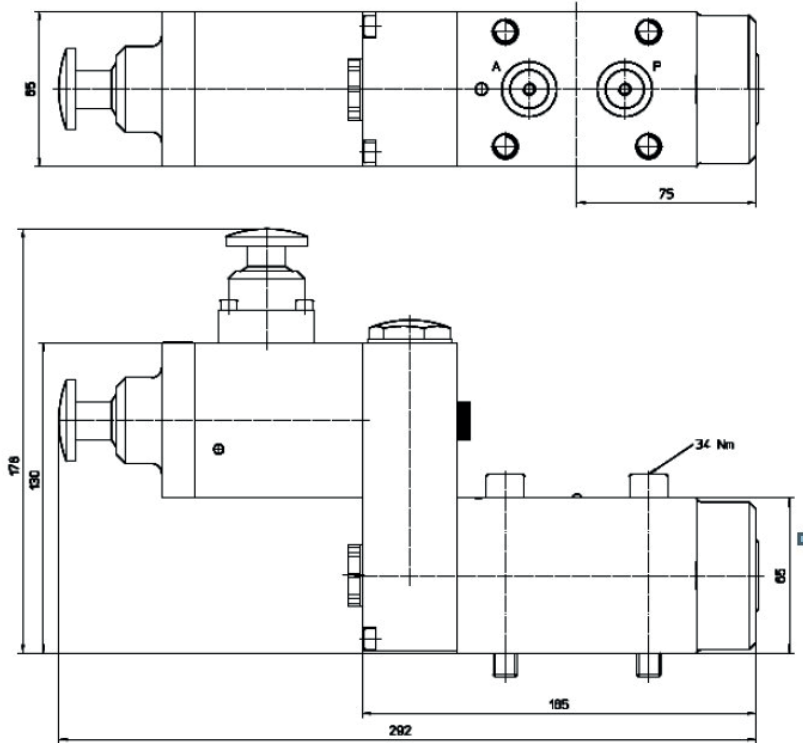


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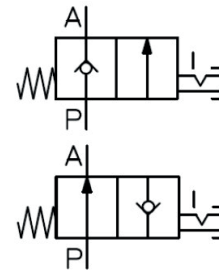


2/2-way valve DN10 | PN320 | 40l/min, pushbutton control with a catch

Dimensions

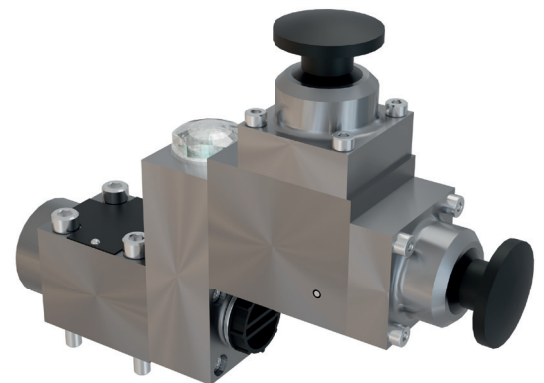
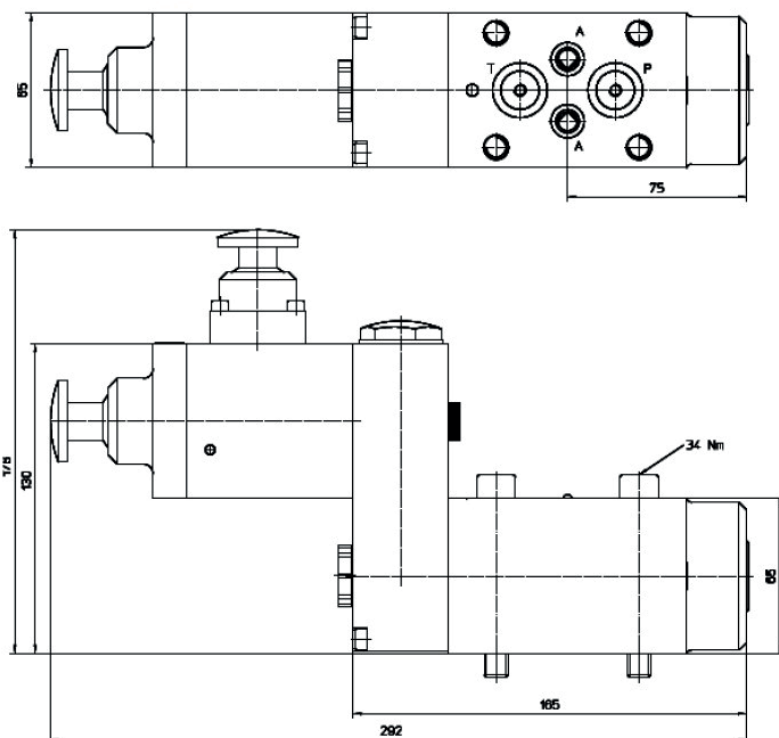


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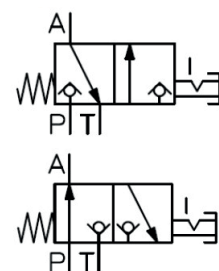


3/2-way valve DN10 | PN320 | 40l/min, pushbutton control with a catch

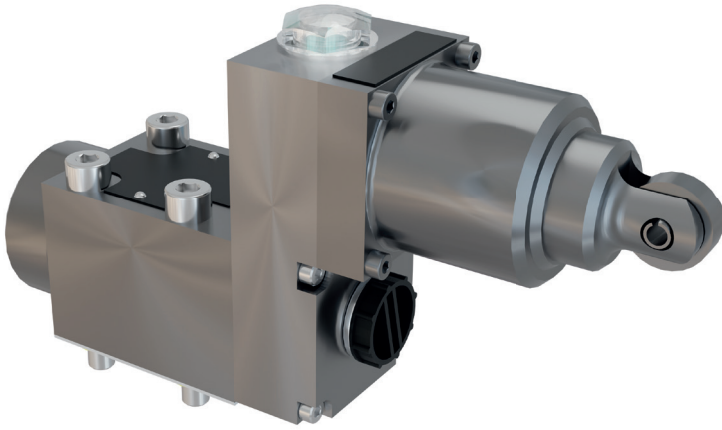
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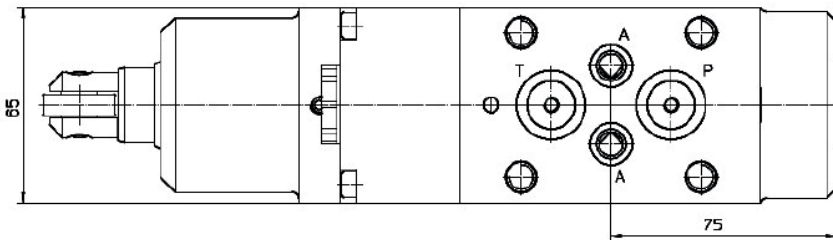
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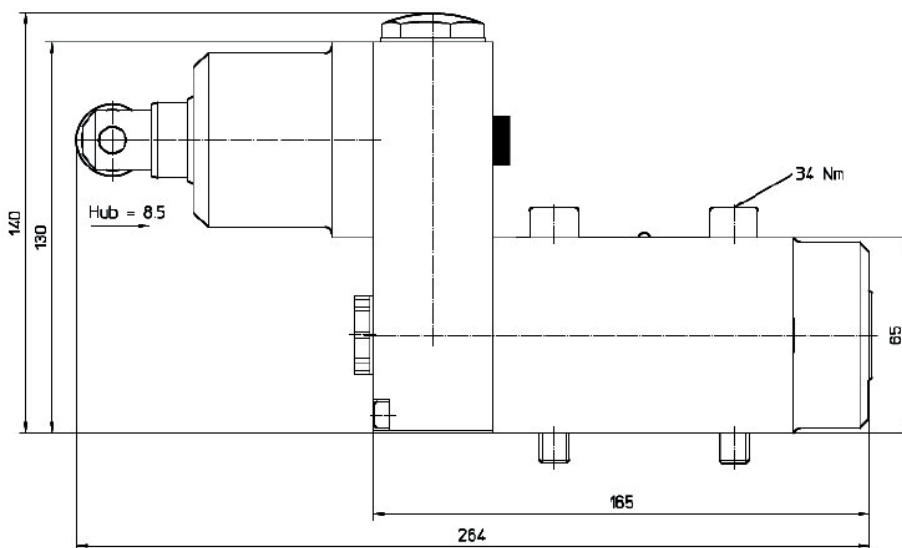
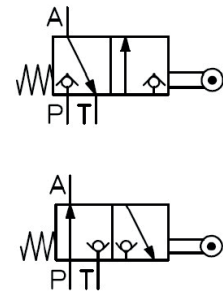
3/2-way valve DN10 | PN320 | 40l/min, roller actuation



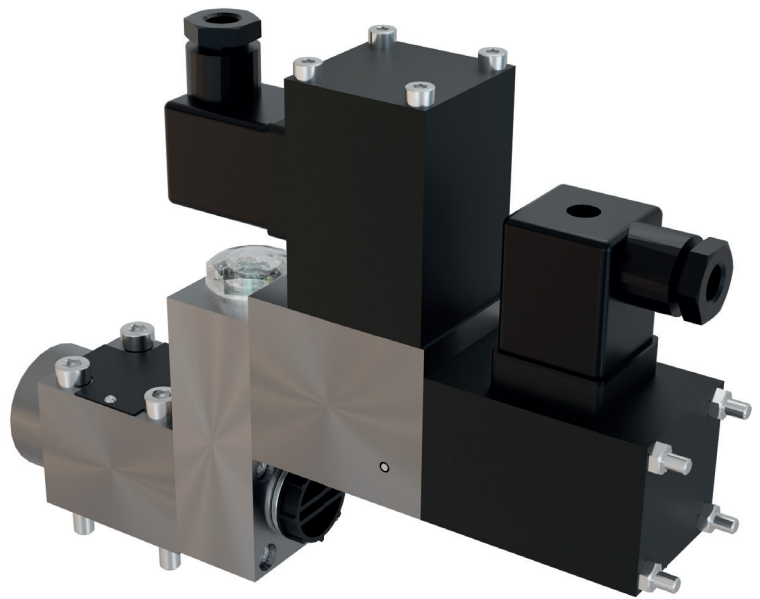
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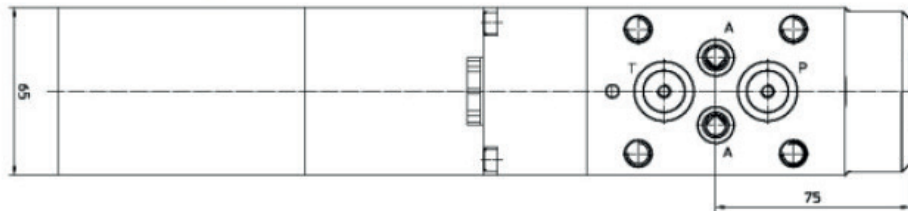
Symbol



3/2-way valve DN10 | PN320 | 40l/min, solenoid actuation with a catch



Dimensions



Symbol

