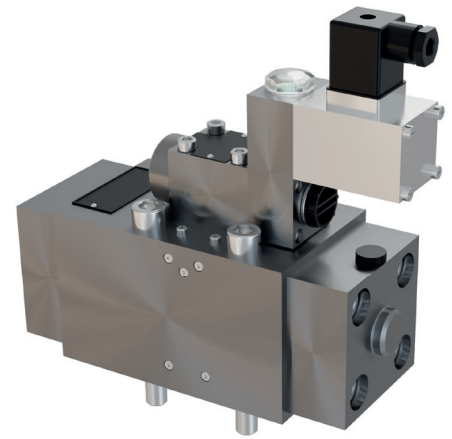


# 3/2-way valve B2 X, Y externally

DN10 - DN16, PN320

## Features

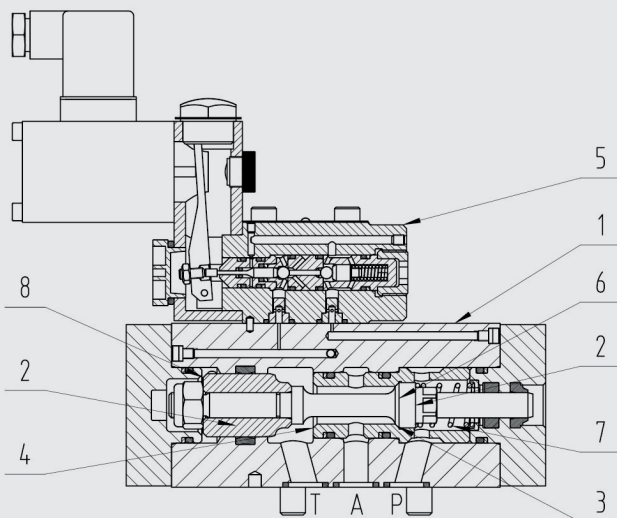
- Hydraulically actuated directional seat valve controlling liquid media.
- Passively controllable 3/2-way valve with 2-stage control logic
- The basic valve position is maintained by the hydraulic pressure (P)
- The valve is designed in two function variants , A-T NO and P-T NO
- The hydraulic control pressure (X, Y) is applied externally via the connection diagram
- Valve piston and valve seat are coupled and close hydraulically „leak-free“
- The valve is actuated hydraulically via a 3/2-way pilot valve
- Valve fastening structural plate form with a Hauhinco connection diagram



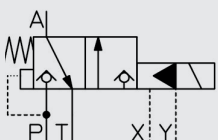
## Function of 3/2-way valve A→T NO

The valve piston (2) guided within the valve body (1) is pressed into the valve seat (3) by the hydraulic power and the spring force (7) generated by the operating pressure (P) on the control surface (6). Thus, the line (P) is shut off and the lines (A, T) are connected. By switching the pilot valve (5), the control surface (8) is pressurised and the valve piston (2) is moved into the actuated position. Thus, the valve piston (2) is pressed into the valve seat (4), the lines (P, A) are connected and the line (T) shut off. Within the switching phase, the valve is provided with a positive overlap.

### Examples 3/2-way valve A→T NO



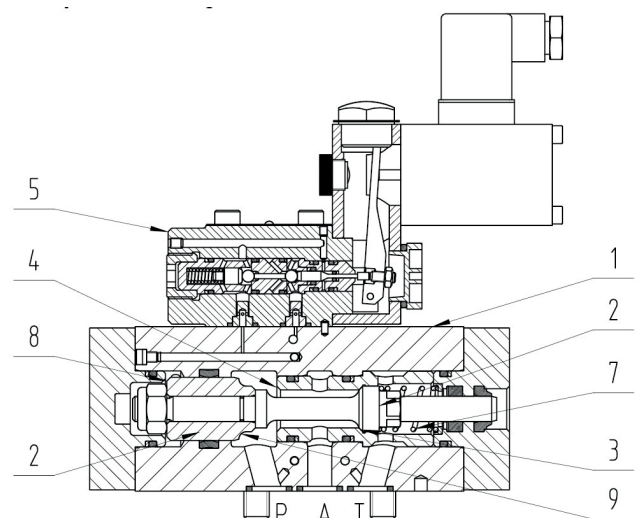
### Symbol



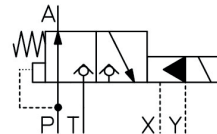
## Function of 3/2-way valve P→A NO

The valve piston (2) guided within the valve body (1) is pressed into the valve seat (3) by the hydraulic power and the spring force (7) generated by the operating pressure (P) on the control surface (9). Thus, the line (T) is shut off and the lines (P, A) are connected. By switching the pilot valve (5), the piston valve area (8) is pressurised and the valve piston (2) is moved into the actuated position. Thus, the valve piston (2) is pressed into the valve seat (4), the lines (A, T) are connected and the line (P) is shut off. Within the switching phase, the valve is provided with a positive overlap.

### Examples 3/2-way valve P→A NO



### Symbol



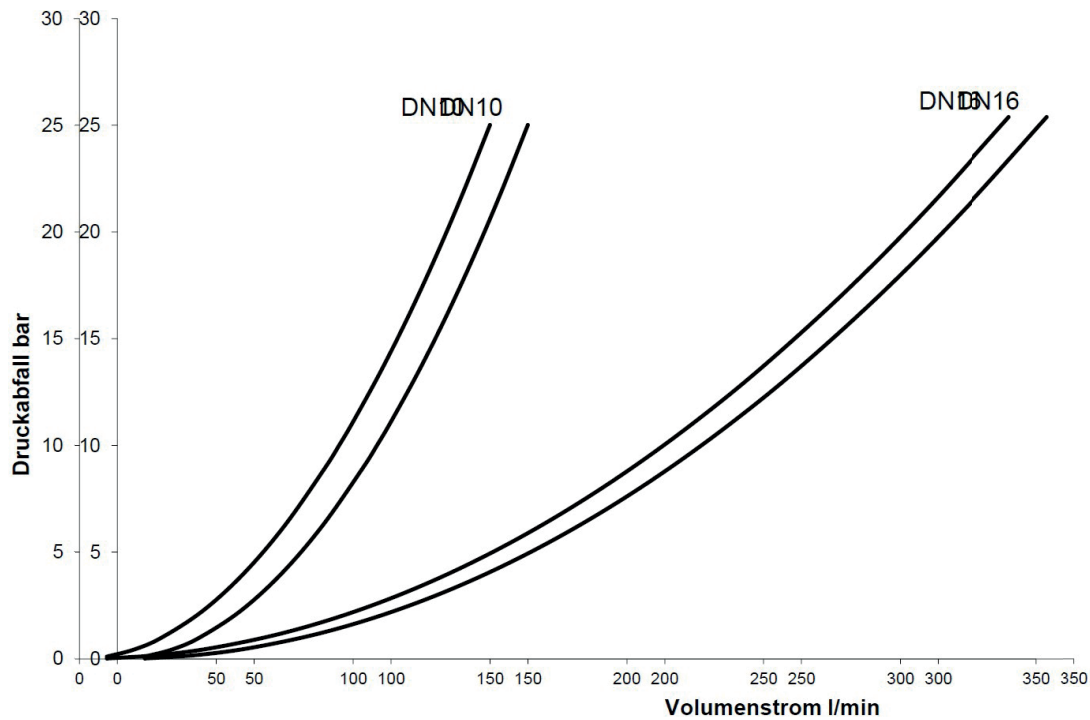
# Technical data

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 Material Seals	Stainless steel, except for the electromagnet NBR, PTFE
Hydraulic	
Hydraulic pressure connector P	≤ 320 bar
Hydraulic pressure connector A	≤ P ≤ 320bar
Hydraulic pressure connector T, Y	≤ 10 bar
Hydraulic pressure connector X	≥ 30bar ≥ P ≤ 320bar
Direction of flow	P→A, A→T
Pressure fluid - Medium - Quality - Medium - Temperature range - min filter fineness connector P, A - min filter fineness connector X	Water, HFA see Hauhinco media requirement, water, HFA 5 - 40°C Filter fineness 100µm Filter fineness 25µm
Pressure fluid - Medium - Temperature range - Medium - Quality - Viscosity	Mineral oil HLP according to DIN51624-2 5 to 50°C Cleanliness class -/19/16 according to ISO 4406 0,6 bis 100 mm <sup>2</sup> /s
Use of other pressure fluids on request.	
Electric	
Magnet - Voltage - Power consumption - Operating time - Degree of protection acc. to EN60529 - max. switching rate	24 VDC 21 W 100% OT IP65 0,5 Hz
Einsatzbereiche	
3/2-way valve A→T NO, -P→A NO	Actuation of hydraulic drives (hydraulic cylinder). These valves will particularly be used if due to the medium a separation between the operating and the control circuit is required.
3/2-way valve P→B NO	The valve works like a hydraulic separator; optionally, it may pass on the supplied pressure and the volume flow from line P to line A or B. Thus, optionally pressure can be applied to two different pressure circuits.

## 3/2-way valve B2, X, Y externally, PN 320, DN10 - DN16

$\Delta p - q_v$  characteristic curves DN3 - DN10



## Order information 3/2-way valve B2, X, Y externally

### Included in the scope of supply

Mounting screws of the valve

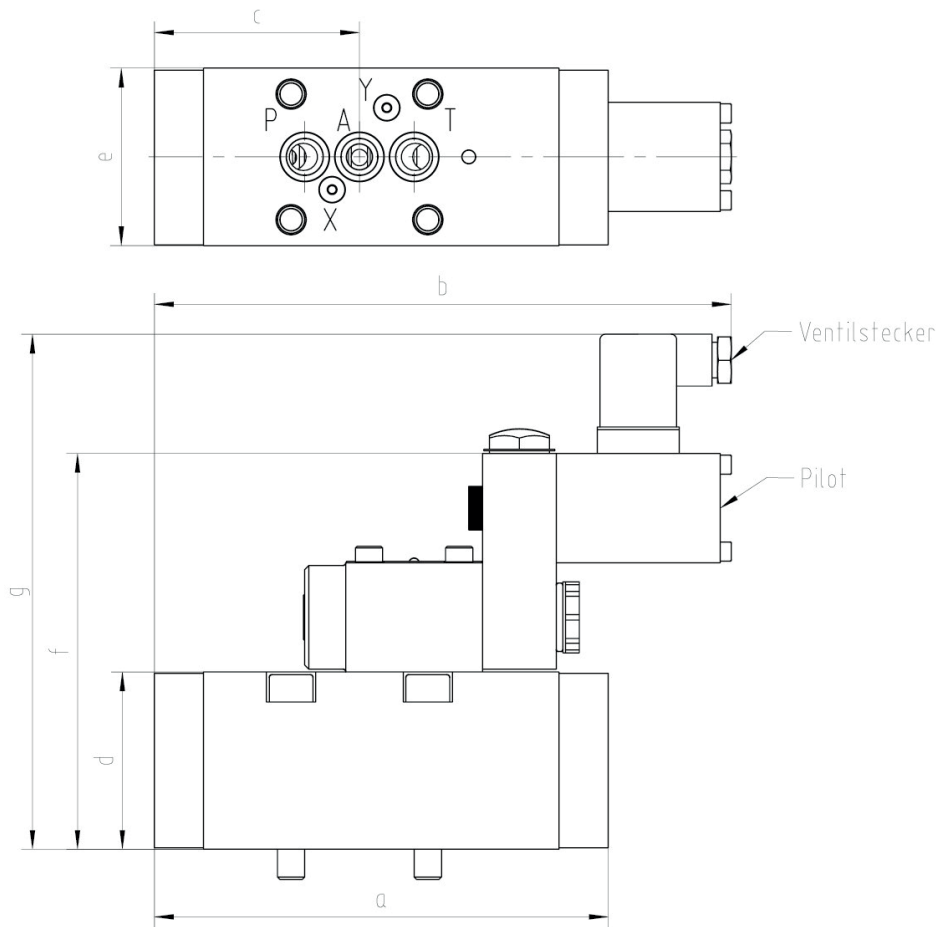
Cheese-head screw

Cable socket of the valve solenoid  
- Supply voltage 24 VDC

according to DIN 43650 – type of design A  
max. 100 VA

Nominal size	Weight [kg]	max. Pressure [bar]	Basic position	min. pressure difference [bar]	Dimensions [mm]							Article number valve B1
					a	b	c	d	e	f	g	
DN10	7,0	320	A→T NO	30	166	211	75	65	65	145	189	6270646
DN10	7,0	320	P→A NO	30	166	187	91	65	65	145	189	6270662
DN16	13,5	320	A→T NO	30	217	218	102	90	90	170	214	6270425
DN16	13,5	320	P→A NO	30	217	231	115	90	90	170	214	6270441
DN16	13,5	320	P→A NO	30	205	206	90	90	90	170	214	6259596
DN16	13,5	320	P→B NO	30	205	206	90	90	90	170	214	6259596

## 3/2-way valve B2, X, Y externally, PN 320, DN10 - DN16



Item	Designation	Article number
1	3/2-way valve DN10- PN500 B1, XY internally, 24VDC-P-A NO	6600028
1	Pilot valve DN10	6254543

### Pilot valve

Nominal size	Basic position	Actuation	Current	Article number valve
DN3	A→T NO		1,0 A	6545599
DN3	A→T NO	Electromagnet, voltage 24V DC, Cable socket magnet DIN43650 – form A: max. 100VA, LED display + Z-diode, IP65	1,0 A	6545599
DN3	A→T NO		1,0 A	6545599
DN3	A→T NO		1,0 A	6545599
DN3	P→A NO		1,0 A	6545602
DN3	A→T NO		1,0 A	6545599

**Order example**