Pilot operated non-return valve

DN10, PN320

Features

- Pilot operated non-return valve controlling liquid media
- · Opening pressure of the preload spring approx. 1bar, other opening pressures on request
- · Valve piston and valve seat are coupled and close hydraulically leak-free
- Valve fastening structural plate form with a Hauhinco connection diagram
- · Valve parts made of corrosion-resistant stainless steel

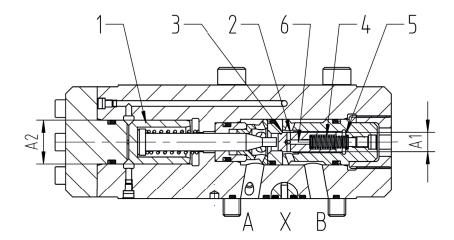


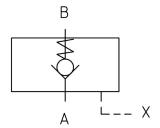
The valve piston (2) is pressed into the valve seat (3) by the force of the spring (4). The control chamber (5) is connected to the B-channel via the control channels (6) within the valve piston (2). The hydraulic pressure supplied at the B-channel with the valve closed is thus acting on the control surface A1, keeps the valve closed and shuts off the direction of flow from the B- to the A-channel. Conversely, the nonreturn valve opens when the hydraulic pressure at the A-channel exceeds the hydraulic pressure at the B-channel and the spring force (4).

The valve blocked via the B port can be opened against the blocking direction. This is done via the control piston (1) which is pressurized via the control port (X). The control pressure (X) acts to surface A2, surface A2 is > as surface A1 and open the non-return valve.

Example: Pilot operated non-return valve DN10

Symbol





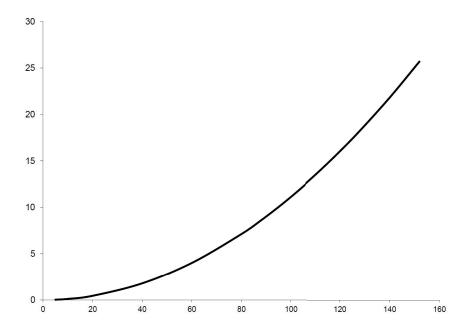


Technical data measured with HFA medium 97/3%, at 20°C

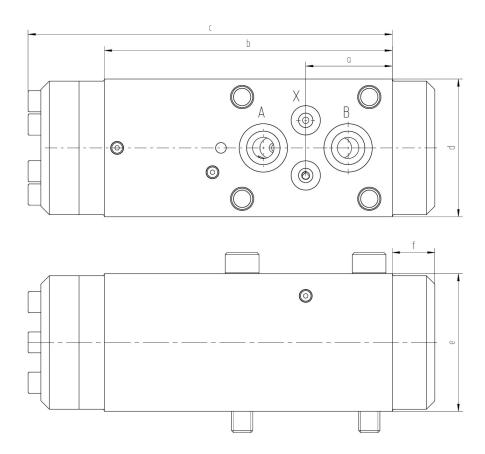
General	
Weight	see Order information
Installation position	any
Ambient temperature	-10 to 50°C (hydraulic fluids, heed standard requirements)
Material Valve parts Material Seals	Stainless steel NBR, PTFE, PUR
Hydraulic	
Hydraulic pressure connector A, B, X	≤ 320 bar
Direction of flow	A→B
Pressure fluid - Medium - Temperature range - Medium - Quality - min. filter fineness connection A, B	Water, HFA 5 to 40°C see Hauhinco media requirement, water, HFA Filter fineness 100µm
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 mm²/s
Use of other pressure fluids on request.	

Characteristic curves DN10

Δp – qv characteristic curves



Dimension sheet



Order information pilot operated non-return valve

Included in the scope of supply										
Mounting screws for the non-return valve										
Nominal size	Weight max. Pre [kg] sure [bai	max. Pres-	Control ratio	Dimensions [mm]						Article number
		sure [bar]	[A1/A2]	a	b	C	d	е	f	
DN10	5,4	320	1:5	41	136	172	65	65	20	6377971