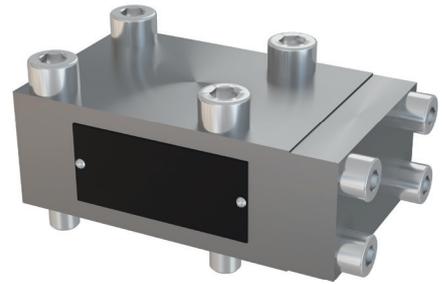


Non-return valve B-RV

DN3 - DN10 PN 320, PN500

Features

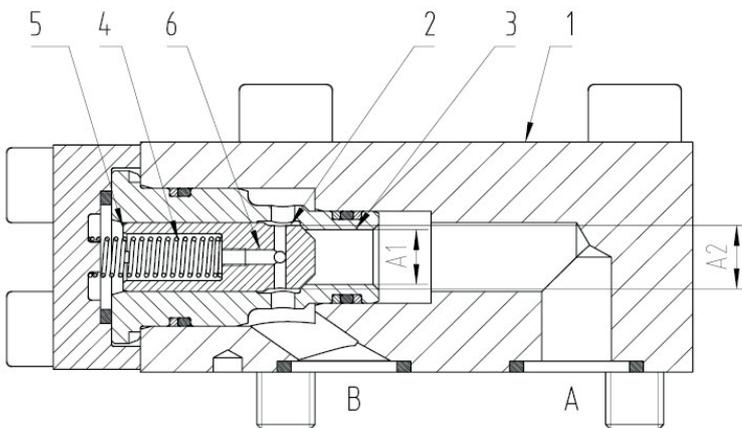
- Non-return valve controlling liquid media
- Opening pressure of the preload spring is „1bar“, other opening pressures on request
- Valve piston and valve seat are coupled and close hydraulically „leak-free“.
- Valve fastening structural plate form with a Hauhinco connection diagram
- Valve parts made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



Function of Non-return valve

The valve piston (2) guided within the valve body (1) 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 also acting on the control surface (A2). This pressure keeps the valve closed and shuts off the direction of flow from the B- to the A-channel. Conversely, the non-return valve opens when the hydraulic pressure at the A-channel exceeds the hydraulic pressure at the B-channel and the spring force (4). In order to reach the initial opening of the closed valve, the hydraulic pressure within the A-channel must be greater by the factor of the control ratio $A2/A1$. The response behaviour of the valve is damped by the throttling pin.

Example non-return valve B-RV:

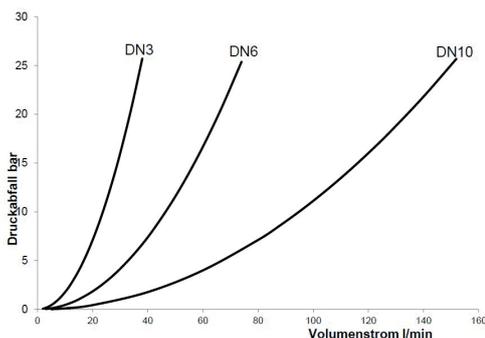


Symbol

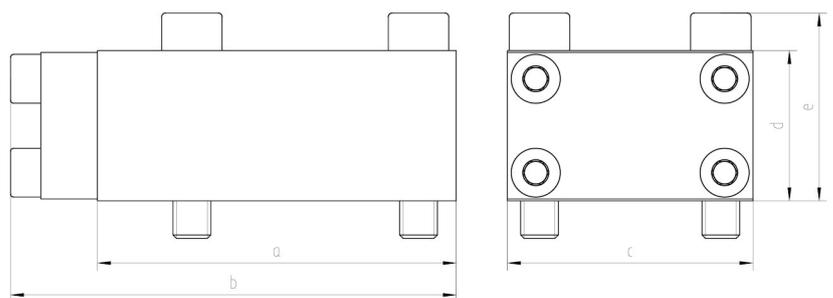


Control surfaces, hydraulic forces
 A channel: Area A1, open valve
 B channel: Area A2, close valve
 Control surface (5) = $A2 > A1$

$\Delta P - Q$ characteristic curves



Dimension sheet



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
Material Seals	NBR, PTFE, PUR
Hydraulic	
Hydraulic pressure connector A, B	≤ 320 bar bzw. ≤ 500bar, see Order information
Direction of flow	A→B
Control ratio	$A1 \leq A2$, A1, A2 – Control surfaces
Pressure fluid	Water, HFA
- Medium - Temperature range	5 to 40°C
- Medium - Quality	see Hauhinco media requirement, water, HFA
- min. filter fineness connection	Filter fineness 100µm
Pressure fluid	Mineral oil HLP according to DIN51624-2
- Medium - Temperature range	5 to 50°C
- Medium - Quality	Cleanliness class -/19/16 according to ISO 4406
- Viscosity	0,6 bis 100 mm ² /s
Use of other pressure fluids on request.	

Order information

Included in the scope of supply											
Mounting screws for the valves											
Designation	Nominal size	Weight [kg]	max. Pres- sure [bar]	Control ratio [A2/A1]	Dimensions [mm]					Article number	
					a	b	c	d	e		
Non-return valve B-RV	DN3	0,7	320	1,35	58	76	40	30	36	6356435	
Non-return valve B-RV	DN6	0,9	320	1,35	62	80	50	30	38	6355846	
Non-return valve B-RV	DN6	0,9	500	1,35	62	80	50	30	38	6392636	
Non-return valve B-RV	DN10	2,2	320	1,20	95	118	65	40	50	6356419	
Non-return valve B-RV	DN10	2,2	500	1,35	95	118	65	40	50	6396291	