

Pilot operated check valves

Type ERV700 up to 700 bar NG 6 up to 25 l/min

Features

- Leakage free
- Ball-seat construction
- Load supported closing
- Porting NG 6 according to DIN 24340
- Advantageous release function
- Compact design
- Outer parts of cartridge are corrosion protected

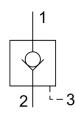


Design

- Leakage free block of load pressure
- Intermediate plate
- Cartridge

Applications

The cartridge design allows a compact integration on cylinders and motors. This assembly offers an enhancement of the tractive strength and also a protection against pipe burst.

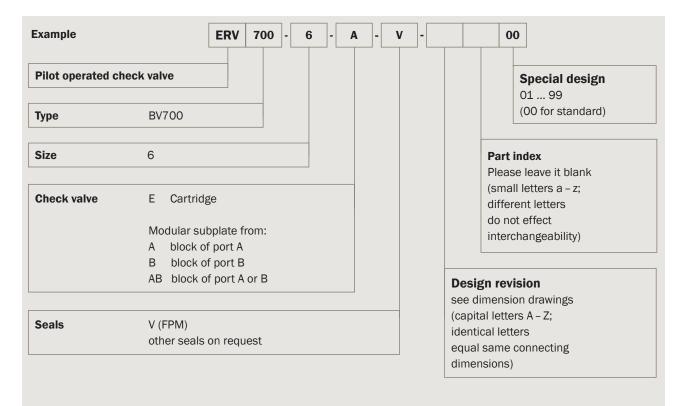


Technical data

Hydraulic fluid	mineral oil according to DIN 51524 (other fluids on request)		
Fluid temperature range	– 20 bis 80 °C		
Ambient temperature range	– 20 to 50 °C		
Viscosity range	5 to 400 mm ² /s		
Porting (Cartridge see page 2)	NG 6 according to DIN 24340/ ISO 4401/CETOP RP 121 H		
Max. operating pressure connection P, A, B	700 bar		
Max. pressure admissible connection T	350 bar		
Pressure ratio	modular subplate (parts in body) pe/p = 1:5.4 cartridge 1:7.2		
Max. flow rate Back pressure at 25 I/min	25 l/min modular subplate (parts in body) 5 bar cartridge 30 bar		
Cracking pressure check valve	modular subplate (parts in body) ca. 1 bar cartridge ca. 6 bar		
Filtration (recommendation)	according to NAS 1638, class 6 or ISO/DIN 4406 17/15/12		
Weight	see dimension drawings		
Material/surface treatment	housingsteel, galvanized, chromatedouter parts cartridgecorrosion protection		

to 7	70	0 b	ar		
NG	6	up	to	25	l/min

Ordering code



Accessories

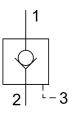
For each intermediate plate valve the following is included: 4 pieces 0-rings 9,25 x 1,78 mm 90°ShA article no. 4003217

Tie bolts/fixation screws and subplates are obtional, see technical data sheet AP700/RP700/EP700

Product information

Screw-in cartridge, weight 0,055 kg

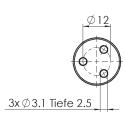
Туре	Part number
ERV700-6-E-V-A*00	3683103

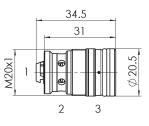


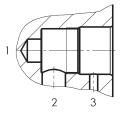
Symbol

Bore dimension

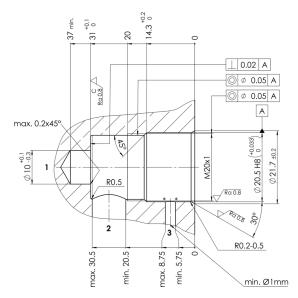








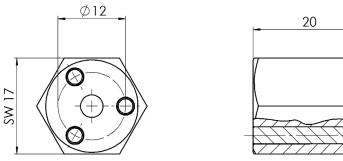
Tightening torque: M = 40 Nm

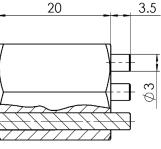


Steel yield strength Rp0.2 $\geq 450~N/mm^2$ elongation at fracture As $\geq 10\%$ * Flat chamfer or rounding max. 0.5 mm wide

Assembly tool

Part number 3690831







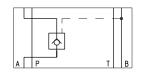
to 700 bar NG 6 up to 25 l/mir

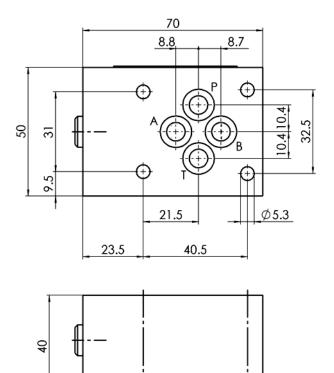
Modular subplates

Check valve in A, weight 1,0 kg

Туре	Part number
ERV700-6-A-V-A*00	3683082







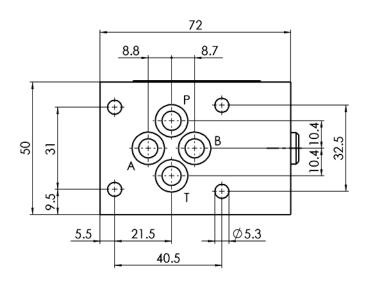
to 700 bar NG 6 up to 25 l/min

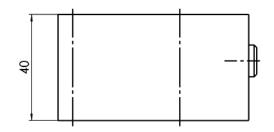
Check valve in B, weight 1,0 kg

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Туре	Part number
ERV700-6-B-V-A*00	3683100

Dimensional drawing



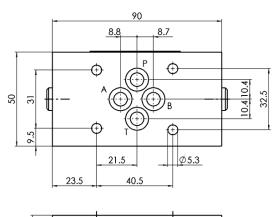


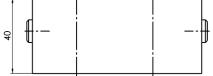


Check valve in A and B, weight 1,3 kg

Тур	Part number
ERV700-6-AB-V-A*00	3683080

Dimensional drawing





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Könizstrasse 274 CH-3097 Liebefeld Tel. +41 31 970 09 09 | Fax +41 31 970 09 10 info@bierihydraulics.com | www.bierihydraulics.com The information in this brochure relates to the operating conditions and applications described.

Symbol

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For applications and operating conditions not described, please contact the relevant technical department. Subject to technical modifications.