Range of non return valves, alternating valves and hand-operated shut off valves

Non-return valves with nominal pressure ratings up to PN 420 bar:

- with tube connection both ends: RHD
- with tube connection to male stud: RHV/RHZ
- with female thread both ends: RHDI
- valve cartridges: RVP
- valve internal parts: I-TL
- leakage rate hydraulic testing under test pressure: 1 drop per minute

Alternating valves:

- for nominal pressure ratings up to PN 160 WV
- leakage rate hydraulic testing under test pressure: 20 drops per minute

Shut-off valves:

- for high pressure ratings up to PN 630 bar VDHA

Design:

1. For materials, permissible working pressures, temperatures, flow medium torques for male studs etc. see relevant pages of the catalogue.
2. Tube connection ends must be assembled according to the Parker EO/EO-2 assembly instructions.
3. The valve bodies must be held rigidly during assembly of the tube connection ends.
4. Test pressures for non return valves: PN in conformance with O.D. information see chapter C.
5. Pressure drop values please see p. C12 and diagrams.

Caution!

Please note the admissible pressure ratings for the EO-tube ends.

Range of quarter turn ball valves

Quarter turn Hand-operated ball valves:

- for high pressure ratings up to PN 500 bar KH
- leakage rate hydraulic testing under test pressure: 0 drops per minute

The pressure specification PN for hand-operated shut-off valves and quarter turn ball valves applies to the design factor 1,5 (according DIN 3230 T5 and ISO 5208).

Steel

Materials:
Body made of steel, Cr(VI)-free galvanized or bronzed (coating DIN 50938-FE//A/T4), ball of hard chrome plated carbon steel, stem of zinc plated steel.

Seals:
Ball seat of POM (e. g. Delrin), stem seal of NBR (e. g. Perbunan).

Applications:
Suitable for petroleum-based hydraulic fluid, lubricants and fuel oil.
For applications suitable up to 500 bar.

Temperature range:
–10 up to +100 °C.

Stainless Steel

Materials:
Body made of stainless steel, ball of stainless steel, stem and connectors of stainless steel.

Seals:
Ball seat of POM (e. g. Delrin), stem seal of NBR (e. g. Perbunan), DOZ from function nut FKM (e. g. FKM).

Applications:
Suitable for petroleum-based hydraulic fluid, lubricants and fuel oil.
For applications suitable up to 500 bar.

Temperature range:
–30 up to +100 °C.

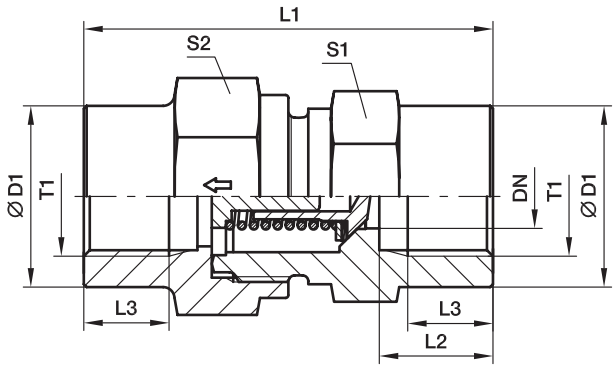
Perbunan = registered trademark of Bayer

Notes:

To assess the suitability of valves for specific applications, please advise us of the exact specification of the medium to be used, max. working pressure incl. pressure peaks, temperature and frequency of valve operations. If water is used, indicate type of water or additives, if any.

RHDI Non return valve

Female BSPP thread (ISO 1179-1) / Female BSPP thread (ISO 1179-1)



Series	T1	DN	D1	L1	L2	L3	S1	S2	Weight g/1 piece	Order code*	PN (bar)[1] CF	PN (bar)[1] 71
L[3])	G 1/8	3.5	19	42.5	12.0	8.0	19	19	76	**RHDI1/8**	400	400
	G 1/4	3.5	19	51.0	16.0	12.0	19	19	82	**RHDI1/4**	400	400
	G 3/8	7.5	24	60.0	17.0	12.0	24	27	157	**RHDI3/8**	400	400
	G 1/2	11.5	32	72.0	20.0	15.0	32	36	344	**RHDI1/2**	315	315
	G 3/4	15.0	41	84.0	22.0	16.5	41	46	664	**RHDI3/4**	250	250
	G 1	19.0	46	95.0	25.5	19.0	46	50	821	**RHDI1**	250	250
	G 1 1/4	24.0	60	110.0	28.0	21.5	60	60	1581	**RHDI11/4**	250	250
	G 1 1/2	29.0	65	114.0	28.5	22.0	65	70	1919	**RHDI11/2**	250	250

[1]) Pressure shown = item deliverable

[3]) L = light series

$\frac{\text{PN (bar)}}{10}$ = PN (MPa)

Delivery without nut and ring. Information on ordering complete fittings or alternative sealing materials see page I7.

*Please add the **suffixes** below according to the material/ surface required.

Order code suffixes			
Material	Suffix surface and material	Example	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	RHDI1/8CF	NBR
Stainless steel	71	RHDI1/871	VIT