

988F Series

DZR Brass ON/OFF Ball Valve with Connection for Actuator



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®

DZR brass ON/OFF ball valve with connection for actuator

Available in the following versions:

- 2-way, threaded M/M (ISO 228/1)
- 3-way with "L" ball, threaded M/M/M (ISO 228/1)
- 3-way with "T" ball, threaded M/M/M (ISO 228/1)

Actuator connection according to ISO 5211 F04-□9mm

Blow-out proof stem

TR CU 010 compliant

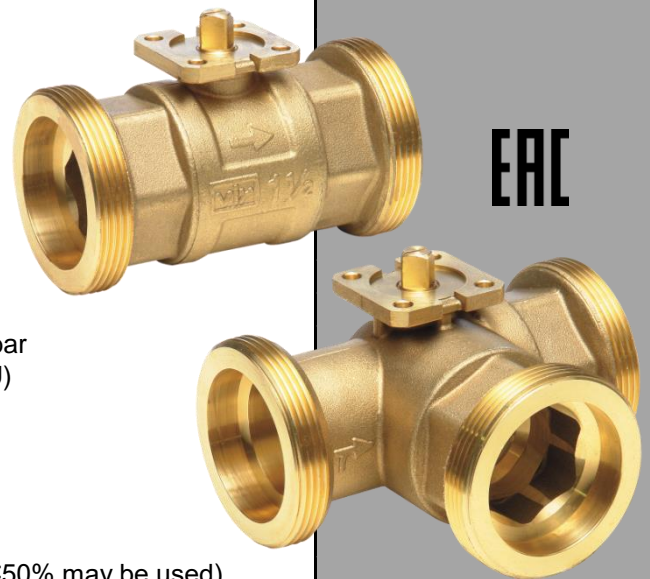
Shell rating: PN40

Working conditions: Max 16bar, max differential pressure 3,5bar

Free of CE marking (cat. according to Art. 4.3 Dir. 2014/68/EU)

Working conditions

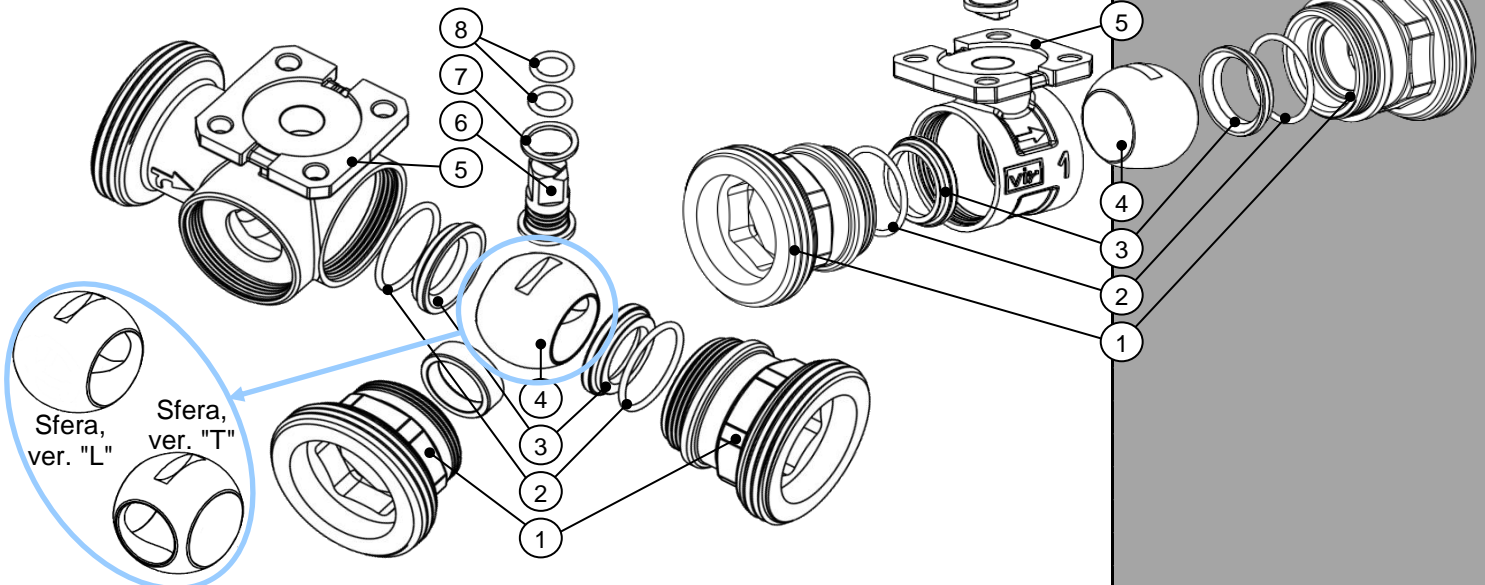
- Suitable for: water, -10°C to +130°C
below 0°C only for water with added antifreeze fluids
over 100°C only for water with added anti-boiling fluids
(Glycolic-Ethylene and glycolic-propylene mix. >20% and ≤50% may be used)
- Not suitable for: gases group 1 & 2, liquids group 1 (Dir. 2014/68/EU)



PARTLIST

N.	Part	Material	Norm
1	Fixed end	DZR Brass	EN12165 CW602N
2	Seat O-ring	EPDM Perox	-
3	Seat	PTFE ¹	-
4	Ball	Chrom. pl. DZR Brass	EN12164 CW602N
5	Body	DZR Brass	EN12165 CW602N
6	Stem	DZR Brass	EN12164 CW602N
7	Antifriction ring	PTFE+Bronzo+MoS ₂	-
8	Stem O-ring	EPDM Perox	-

¹PTFE +10% carbon fiber for 2-way DN20, DN25 and DN32



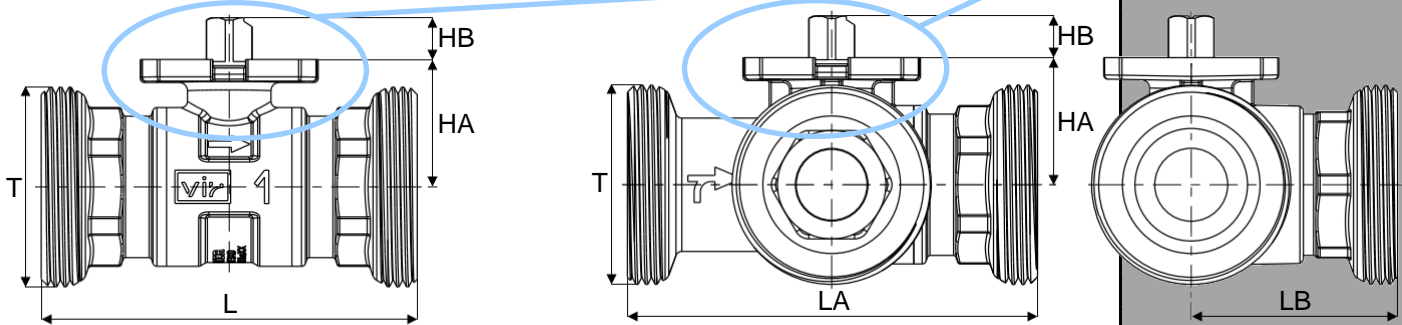
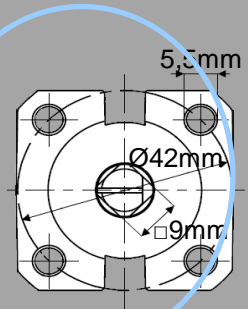
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DIMENSIONS

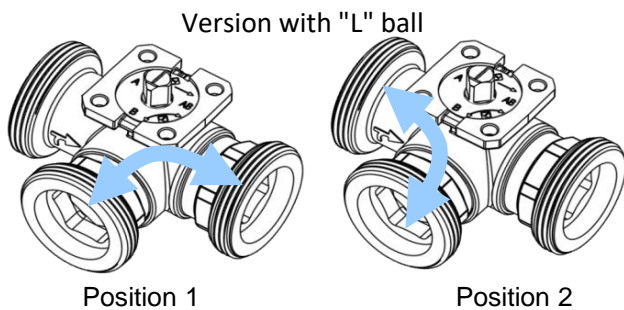
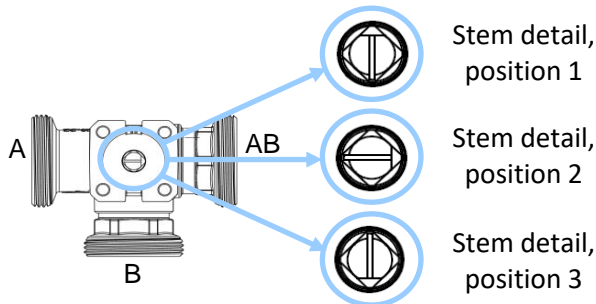
DN	T	L [mm]	LA [mm]	LB [mm]	HA [mm]	HB [mm]	ISO-□Q [mm]	Torque ¹ [Nm]	Weight ² [g]
015	1"	87,0	88,6	43,4 ³	27,6	10,0	F04 - □9	2,0	370 / 445/ 440
020	1¼"	90,0	98,4	49,6	30,5	10,0	F04 - □9	2,0	520 / 700 / 680
025	1½"	90,0	98,4	49,6	30,5	10,0	F04 - □9	3,0	550 / 770 / 750
032	2"	100,0	114,0	63,7	34,3	10,0	F04 - □9	3,5	835 / 1270 / 1200
040	2¼"	116,2	127,6	74,3	39,8	10,0	F04 - □9	3,5	1290 / 1945 / 1840
050	2¾"	124,8	138,0	82,3	52,8	10,0	F04 - □9	3,5	2020 / 2960 / 2850

¹Indicated torque valid for Δp≤1bar, torque is anyway ≤5Nm in the max Δp working range

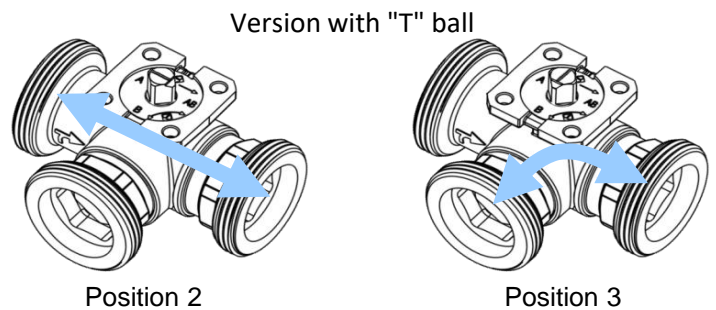
²Weight of 2-way version / weight of 3-way version with "L" ball / weight of 3-way version with "T" ball



WORKING DIAGRAM

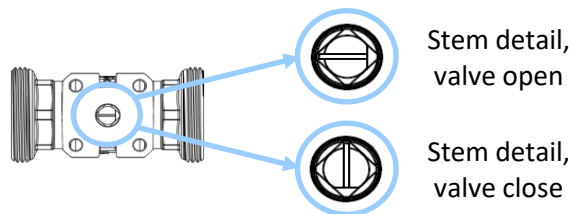


Admitted Seat Leakage
Classe IV-L-1 = $1 \times 10^{-4} \times \text{RVC}$



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Admitted Seat Leakage
 $1 \times 10^{-2} \times \text{RVC}$



No Visible Leakage when tested to verify Class IV-L-1

Allowable Seat Leakage Classes according to IEC 60534-4. RVC: "Rated Valve Capacity" as per IEC 60534-4 standard.



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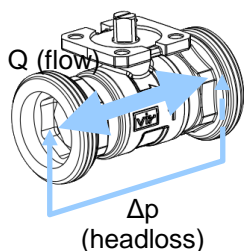
HEADLOSS CALCULATION

$$\Delta p = \left(\frac{36 \cdot Q}{K_v} \right)^2$$

Formula linking flow Q (in l/s) and theoretical valve headloss Δp (in kPa).
 K_v value depends on valve version and working positions as indicated on following tables.

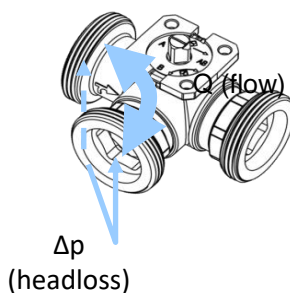
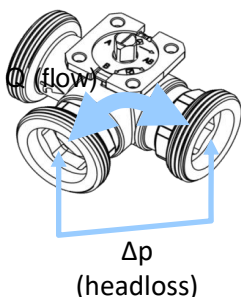
2-way version

DN	K_v [m ³ /h]
015	9
020	17
025	22
032	35
040	68
050	96



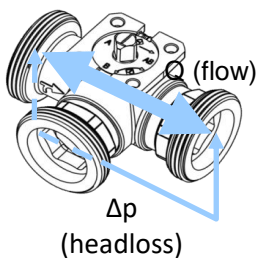
3-way version with "L" ball

DN	K_v [m ³ /h]
015	5
020	8
025	9
032	13
040	25
050	37

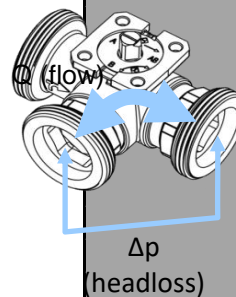


3-way version with "T" ball

DN	K_v [m ³ /h]
015	8
020	13
025	13
032	25
040	49
050	73



DN	K_v [m ³ /h]
015	4
020	7
025	7
032	12,5
040	24,5
050	36,5



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