32T series

Two Way Brass Ball Valve With Connection for Actuator

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Three way brass ball valve with connection for actuator
Threaded M/M/M for union ends (ISO228/1) up to DN≤32
(male threaded union ends kit according ISO 228/1 on request)
Threaded F/F/F (ISO228/1) for DN40 and DN50
Actuator connection according to ISO 5211 (F03/F05)
Air testing according to EN12266-1
Available in the following versions:

- 32TT, diverting valve with one input and two outputs
- 32TG, mixing valve with two inputs and one output
  (also usable as distributing valve)

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)

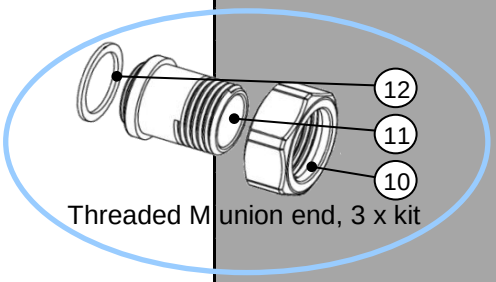
Working conditions:

- Suitable for: water, -15°C to +110°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/UE)

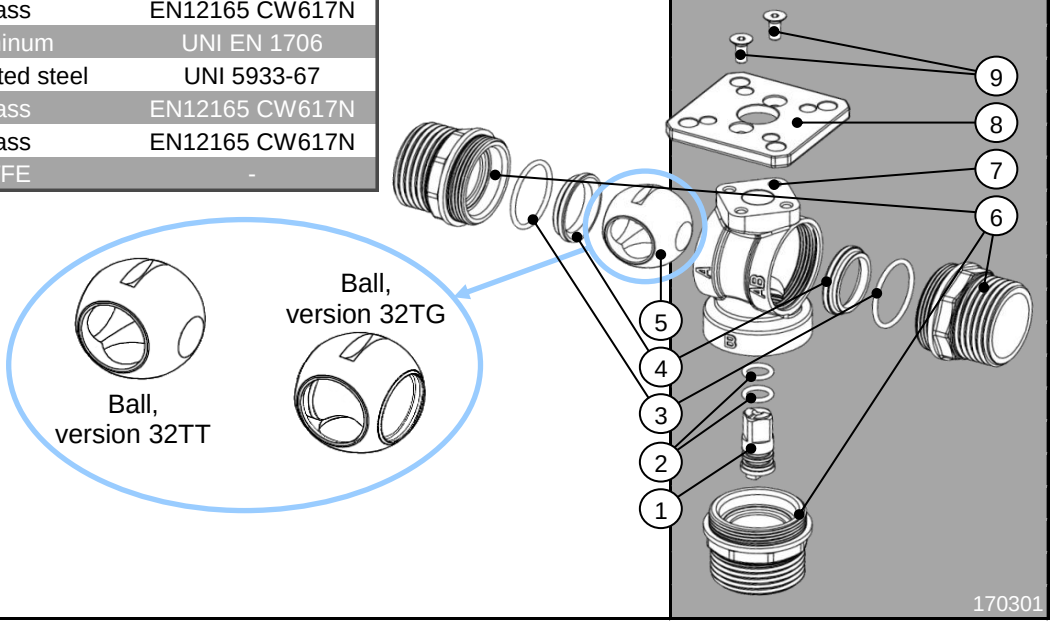
PARTLIST

N.	Part	Material	Norm
1	Stem	Brass	EN12164 CW617N
2	Stem O-ring	EPDM Perox	-
3	Seat O-ring	EPDM Perox	-
4	Seat	PTFE	-
5	Ball	Chromium pl. brass	EN12164 CW617N
6	Fixed end[1]	Brass	EN12165 CW617N
7	Body	Brass	EN12165 CW617N
8	Actuator flange	Aluminum	UNI EN 1706
9	Screw	Zinc plated steel	UNI 5933-67
10	Union nut	Brass	EN12165 CW617N
11	Union end	Brass	EN12165 CW617N
12	Gasket	PTFE	-

[1]Female threaded for DN40 and DN50



Threaded M union end, 3 x kit



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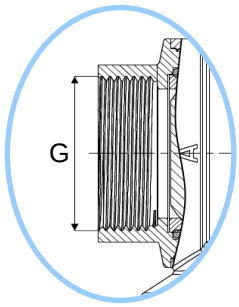
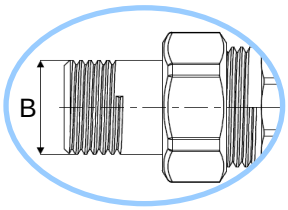
DIMENSIONS

DN	G	B	L [mm]	HA [mm]	HB [mm]	HC [mm]	ISO-□Q [mm]	Weight[1] [g]
020	1"	¾"	75[2]	55,0[2]	30,5	10	F03/F05 - □9	570[2] / 550[2]
025	1¼"	1"	87[3]	65,5[3]	34,3	10	F03/F05 - □9	862[3] / 819[3]
032	1½"	1¼"	102[4]	76,8[4]	39,8	10	F03/F05 - □9	1312[4] / 1236[4]
040	1½"	-	96	77,0	52,8	11	F03/F05 - □11	1834 / 1758
050	2"	-	113	92,3	60,5	11	F03/F05 - □11	3099 / 2892

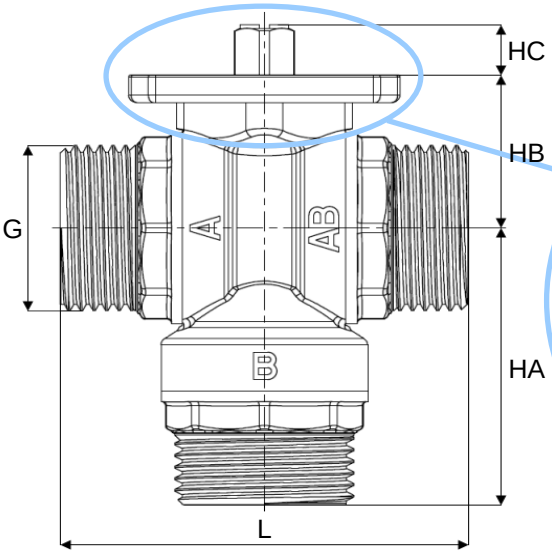
[1]Weight of TT version / weight of TG version
[2]For union ends version L 134,4mm, HA 84,7mm, weight +324g
[3]For union ends version L 156,6mm, HA 100,3mm, weight +549g
[4]For union ends version L 178,2mm, HA 114,9mm, weight +705g

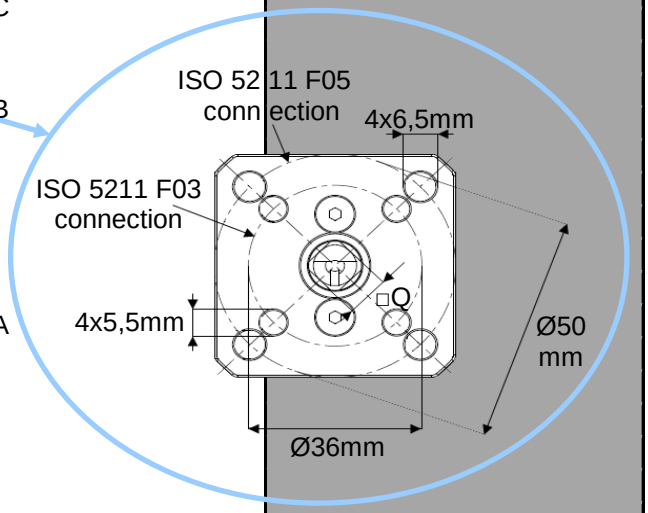


DN40-DN50



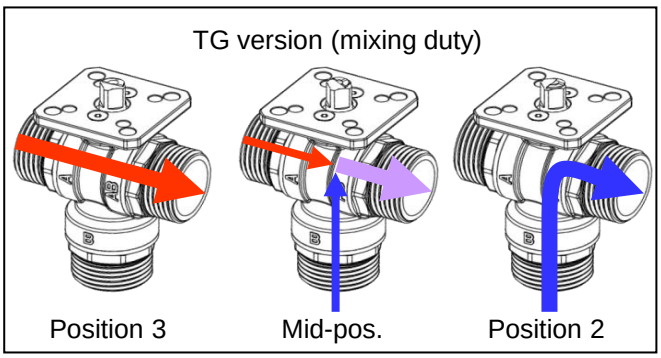
Union ends kit

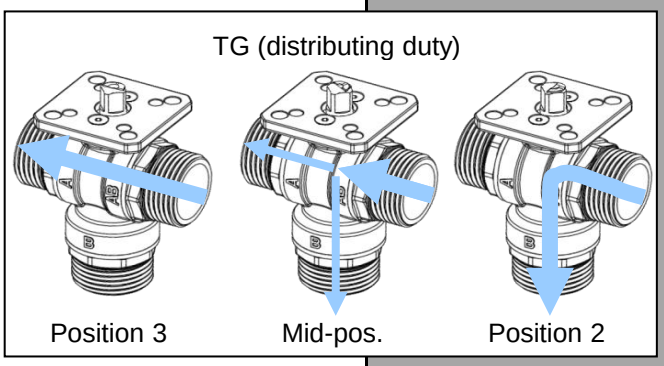


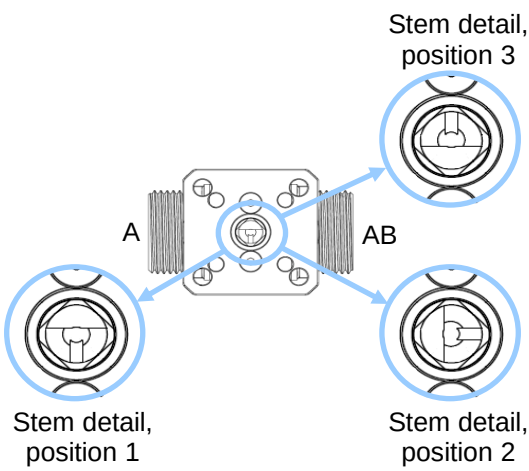


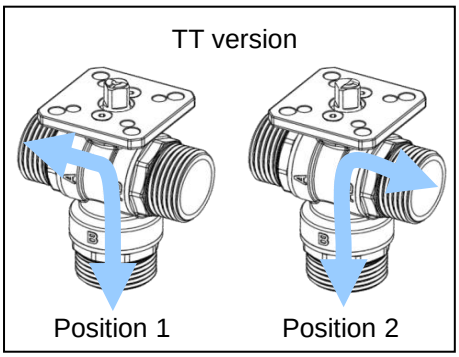
Actuat or connection

WORKING DIAGRAM









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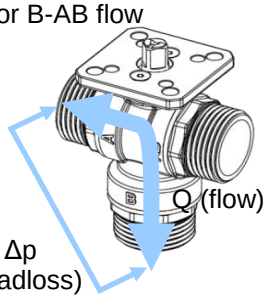
HEADLOSS CALCULATION

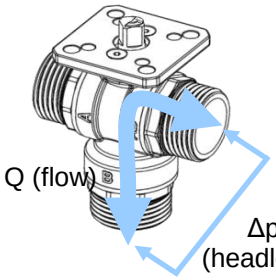
$$\Delta p = \left(\frac{36 \cdot Q}{K_V} \right)^2$$

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.

32TT version, B-A or B-AB flow

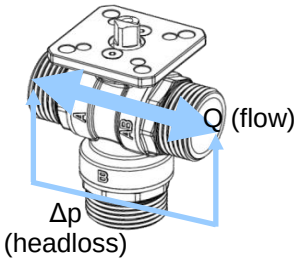
DN	K_v^{32TT} [m^3/h]
020	8,12
025	9,79
032	19,20
040	27,70
050	57,00





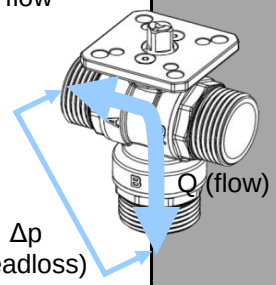
32TG version, A-AB flow

DN	$K_v^{32TG\ A\text{-}AB}$ [m^3/h]
020	8,31
025	15,60
032	22,20
040	40,40
050	63,10



32TG version, A-B flow

DN	$K_v^{32TG\ A\text{-}B}$ [m^3/h]
020	6,68
025	11,40
032	17,50
040	26,80
050	52,60



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