Optibal TW

Ball Valves for Potable Water

Ball valve for potable water installations with reduced flow in accordance with DIN EN 13828 and without dead space. The ball is always surrounded by water.

Body made of low-lead brass, ball chrome-plated, maintenance-free spindle sealing by double O-ring made of EPDM. With extended plastic handle and G ¼ connection for drain valve or water sampling valve. Available with internal thread in accordance with EN 10226-1 or flat sealing external thread in accordance with DIN ISO 228 on both sides.

The ball valve is opened/closed with a 90° turn of the handle. The handle shows the respective switching position.

Features

- Reduced flow in accordance with DIN EN 13828
- Ball always surrounded by water
- Without dead space
- G ¼ connection for drain valve and water sampling valves

Technical Data

Nominal sizes	DN 15...DN 50
Variants	With internal thread in accordance with EN 10226-1 With external thread in accordance with DIN ISO 228
Operating temperature	0...90 °C
Max. operating pressure	PN 10
Kvs values	DN 15: 23.0 DN 20: 36.0 DN 25: 62.0 DN 32: 79.0 DN 40: 124.0 DN 50: 178.0

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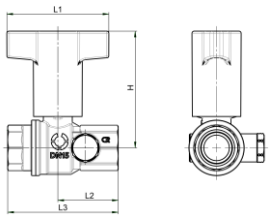
Product Details

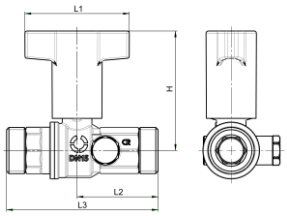
Dimensions

Optibal TW with internal thread



Nominal size	Connection	L1 [mm]	L2 [mm]	L3 [mm]	H [mm]
DN 15	Rp ½	60	35.5	65	68.4
DN 20	Rp ¾	80	37.5	69.5	73.3
DN 25	Rp 1	80	46	86.5	77.3
DN 32	Rp 1 ¼	119.5	52	98.5	115.4
DN 40	Rp 1 ½	119.5	56.5	107.4	121.4
DN 50	Rp 2	119.5	65.5	126	128.4

Optibal TW with flat sealing external thread



Nominal size	Connection	L1 [mm]	L2 [mm]	L3 [mm]	H [mm]
DN 15	G ¾	60	46.5	87	68.4
DN 20	G 1	80	49.5	93.5	73.3
DN 25	G 1 ¼	80	60.5	115.5	77.3
DN 32	G 1 ½	119.5	68	130.5	115.4

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Selection

Item Numbers

Optibal TW with internal thread

	Nominal size	Connection	kvs	Item no.
	DN 15	Rp ½	23.0	1078804
	DN 20	Rp ¾	36.0	1078806
	DN 25	Rp 1	62.0	1078808
	DN 32	Rp 1 ¼	79.0	1078810
	DN 40	Rp 1 ½	124.0	1078812
	DN 50	Rp 2	178.0	1078816

Optibal TW with flat sealing external thread

	Nominal size	Connection	kvs	Item no.
	DN 15	G ¾	23,0	1078904
	DN 20	G 1	36,0	1078906
	DN 25	G 1 ¼	62,0	1078908
	DN 32	G 1 ½	79,0	1078910

Accessories

Selected accessories for Optibal TW. For a complete overview, see product catalogue.

Description	Item no.
Thermal insulation shell for Optibal TW DN 15	4208881
Thermal insulation shell for Optibal TW DN 20	4208882
Thermal insulation shell for Optibal TW DN 25	4208883
Thermal insulation shell for Optibal TW DN 32	4208884
Thermal insulation shell for Optibal TW DN 40	4208885
Thermal insulation shell for Optibal TW DN 50	4208886
Thermometer conversion set for Optibal TW DN 15	1077181
Thermometer conversion set for Optibal TW DN 20 and DN 25	1077182
Thermometer conversion set for Optibal TW DN 32 to DN 50	1077183
Aquastrom P water sampling valve DN 8, G ¼ ET	4209102
Drain valve for hose connection DN 8, G ¼ ET	4205593
Drain valve DN 8, G ¼ ET	4209602
Drain ball valve DN 8, G ¼ ET	4200191

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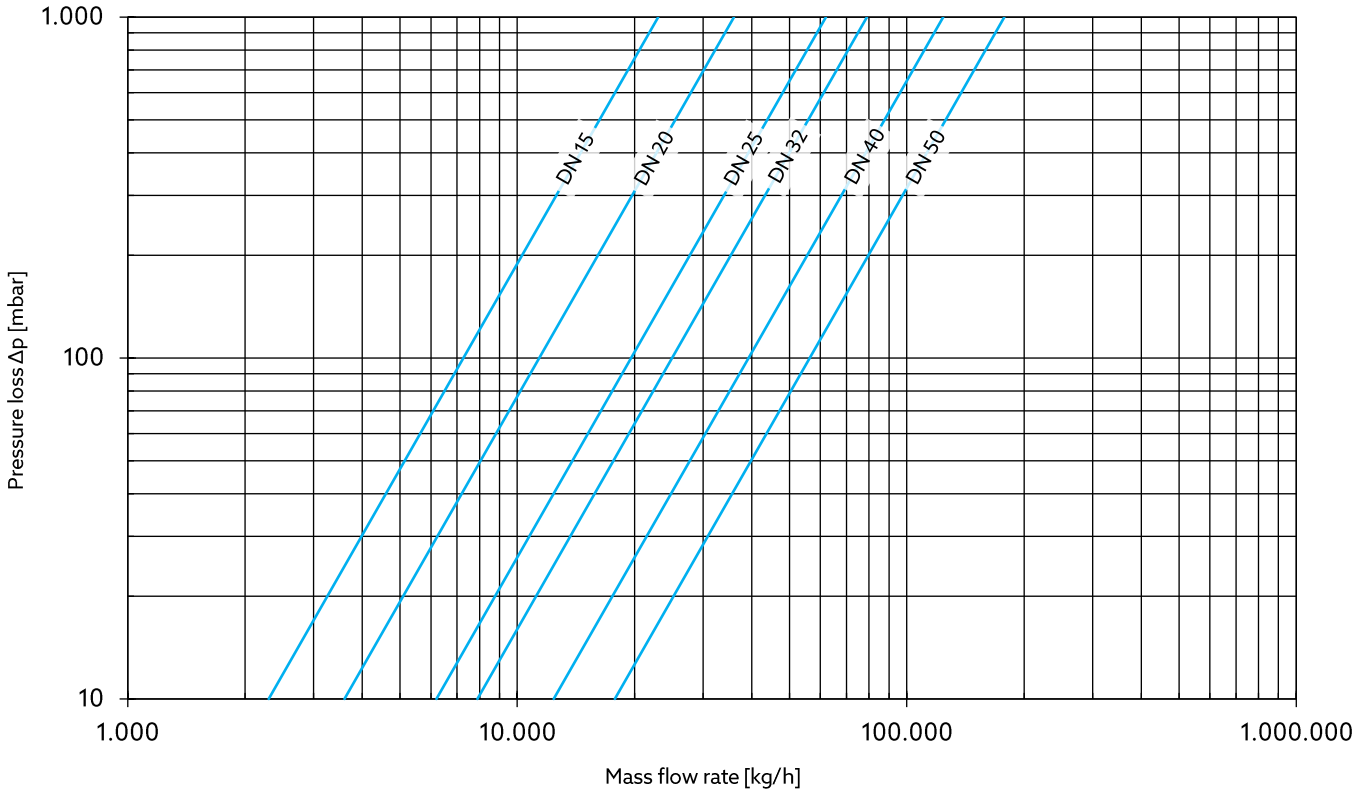
Sizing

Flow chart



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