

Application:

Pipe fittings for water and mixtures of water and glycol.

Technical data:

Max. operating pressure p_B : 30 bar pressure impact resistant at 30 °C (PN 30), 6 bar at 120 °C, for air and other harmless gases*)
10 bar

Operating temperature t_B : -10 °C up to +120 °C

Pressure and temperature allocation see chart

Function:

The ball valve is opened/closed by turning the lever or handle by 90°. The position of the ball is indicated by the position of the lever or handle.

Description:

Body made of unplated DZR brass (DZR = dezincification resistant brass), full flow, ball chrome plated, maintenance-free stem seal with double FKM O-ring, both ports G female thread according to ISO 228 (thread also corresponds to Rp according to EN 10226-1), alternative operating elements:

Lever made of galvanised steel with red plastic coating

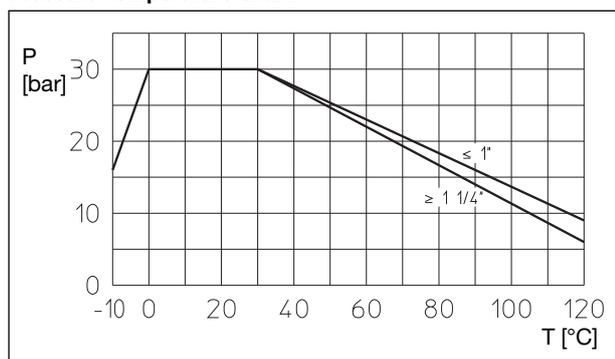
T-handle made of red lacquered metal

Anthracite extended plastic handle with red cover plug

Advantages:

- blow-off proof stem
- full flow according to DIN 3357-4
- PN 30 for cold water
- dezincification resistant
- simple insulation of model with extended plastic handle using insulation shells
- suitable for water and glycol mixtures (glycol proportion up to 50%)

Pressure-temperature chart:



Attention: Prevent formation of ice as it can destroy the pipework and valve.

Note:

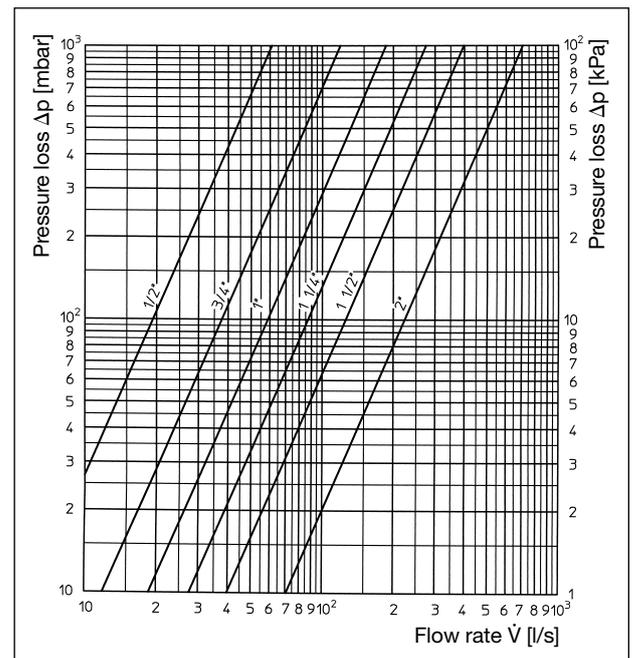
It is recommended to operate ball valves which are in a permanent position once or twice a year.

*) not suitable for gaseous fluids group 1 according to the Pressure Equipment Directive PED 97/23/EC (such as toxic or flammable gases) and oxygen.

As the ball valves come under article 3 paragraph 3 of the Pressure Equipment Directive 97/23/EC, they do not carry a CE marking.



Ball valves "DZR"



Flow chart

Flow values (water):

The flow values may vary due to the different screw-in depths of the threaded pipes into the ball valve and a not fully opened switching ball.

DN	15	20	25	32	40	50
k_{VS} [m³/h]	22	43	67	99	143	254

Accessories:

Conversion set plastic handle

For subsequent insulation of the pipework with mounted ball valves with metal lever or T-handle, the conversion to an extended plastic handle is recommended.

Sizes	Distance*)	Item no.
up to DN 15	35 mm	1076071
DN 20 + DN 25	36 mm	1076072
DN 32 – DN 50	64 mm	1076073

*) Distance between upper edge of the body and lower edge of the handle = space for insulation

Thermometer conversion set for extended plastic handle

Consisting of anthracite coloured thermometer 0-100 °C and special screw.

Sizes	Item no.
up to DN 15	1077181
DN 20 + DN 25	1077182
DN 32 – DN 50	1077183

Stem extension

To upgrade ball valves with metal lever or T-handle. The swivel insulation shell can be sealed at the insulation by use of silicone for a diffusion tight insulation of cooling systems for instance.

Sizes	Extension	Item no.
up to DN 15	38 mm	1076081
DN 20 + DN 25	39 mm	1076082
DN 32 – DN 50	64 mm	1076083

Insulation shells

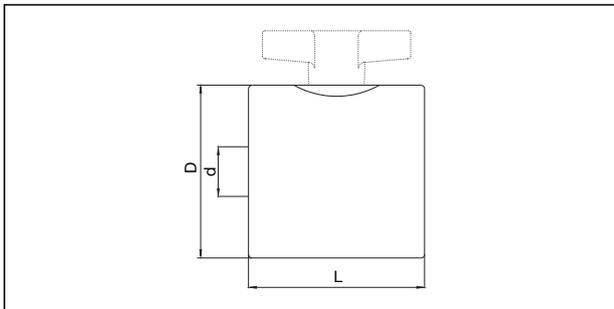
For ball valves with extended plastic handle and subsequently installed stem extension.

The double insulation shells made of anthracite coloured expanded polypropylene are easy to use and can be reused.

Building material class B2 according to DIN 4102.

Thermal conductivity 0.035 W/mK.

Meets the requirements of the German Energy Saving Directive according to appendix 5, table 1, line 5.



Dimensions item no. 1078092-97 (DN 15 up to DN 50)

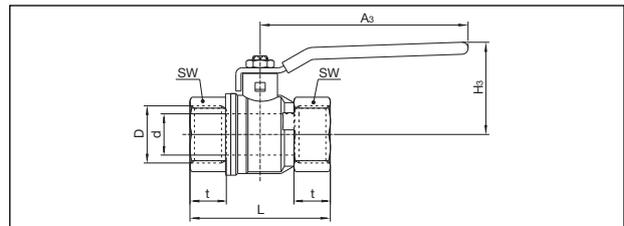
DN	d	D	L
15	1/2"	74	74
20	3/4"	81	78
25	1"	94	95
32	1 1/4"	114	107
40	1 1/2"	132	116
50	2"	166	135

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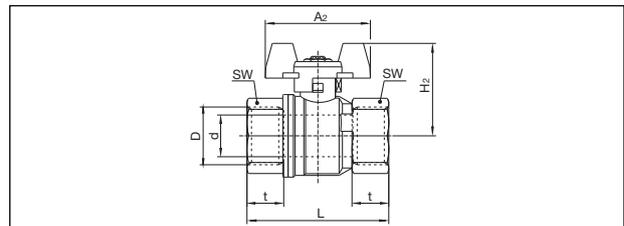
Subject to technical modification without notice.

Product range 5
 ti 212-EN/10/MW
 Edition 2015



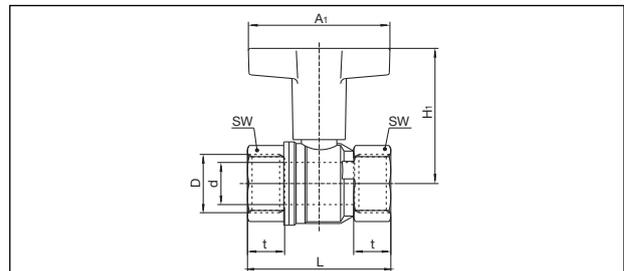
D	d	L	t	H3	A3	SW*
1/2"	15	59	15.5	43	100	25
3/4"	19	64	17	50	120	31
1"	24	81	21	54	120	40
1 1/4"	30	93	23	73	158	49
1 1/2"	38	102	23	79	158	54
2"	48	121	26.5	86	158	69

Dimensions item no. 10790.. (DN 15 up to DN 50), steel lever



D	d	L	t	H2	A2	SW*
1/2"	15	59	15.5	43	50	25
3/4"	19	64	17	49	60	31

Dimensions item no. 10794.. (DN 15 and DN 20), metal T-handle



D	d	L	t	H1	A1	SW*
1/2"	15	59	15.5	68	60	25
3/4"	19	64	17	73	80	31
1"	24	81	21	77	80	40
1 1/4"	30	93	23	114	120	49
1 1/2"	38	102	23	120	120	54
2"	48	121	26.5	127	120	69

Dimensions item no. 10791.. (DN 15 up to DN 50), extended plastic handle

* SW = spanner size

Accessories:

Locking cap

The locking cap can be mounted instead of the handle. It serves to lock the ball valve in open or closed position and inadvertent operation is prevented.

Sizes	Item no.
DN 15	1079254
DN 20 + DN 25	1079255
DN 32 – DN 50	1079256