



### Application:

Pipe fittings for potable water installations  
Max. operating pressure: PN 10  
Operating temperature: 0 °C up to 90 °C

### Function:

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

### Model:

Body made of bronze according to DIN 50930-6, full flow, ball chrome plated, maintenance- free stem seal with double EPDM O-ring. Models up to DN 50 with extended handle made of high-quality black/green plastic and plugged G ¼ draining or water sampling orifices on both sides. DN 65 and DN 80 with lever made of galvanised steel.

### Available connections:

Both ports with female thread according to EN 10226-1, both ports flat sealing male thread according to DIN ISO 228 or both ports bronze press fittings for the direct connection of copper pipes according to EN 1057 and stainless steel pipes “Nirosan”.

### Advantages:

- all components in contact with the fluid free from brass
- blow-off proof stem
- full flow according to DIN EN 13828
- ball always surrounded by water
- without dead zone
- both ports with G ¼ orifices for the connection of draining or water sampling valves (see accessories item no. 4200191 or 4209102)
- high-quality insulation shells available as accessories
- operable with mounted insulation shells
- DN 15-DN 80: DVGW, and VA certified

### Note:

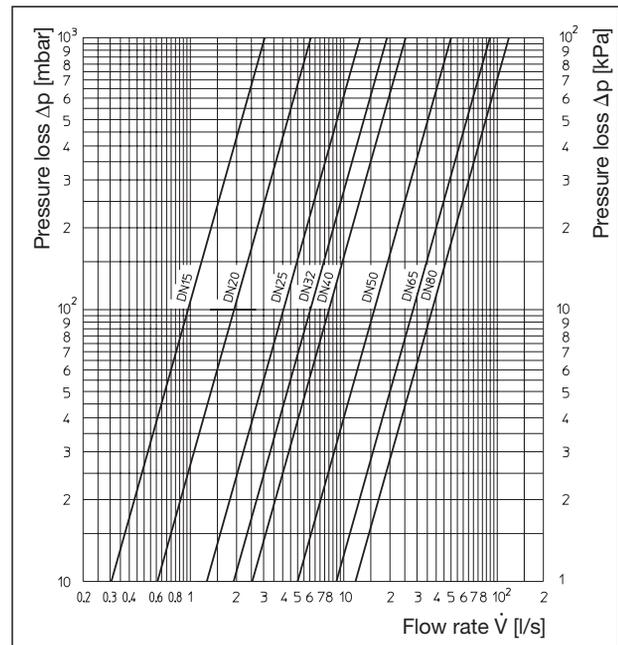
It is recommended to operate ball valves which are in a permanent position once or twice a year.

The pipework must be installed at a frost-free location!

Formation of ice may cause damage to the pipework and valve!



“Optibal TW”

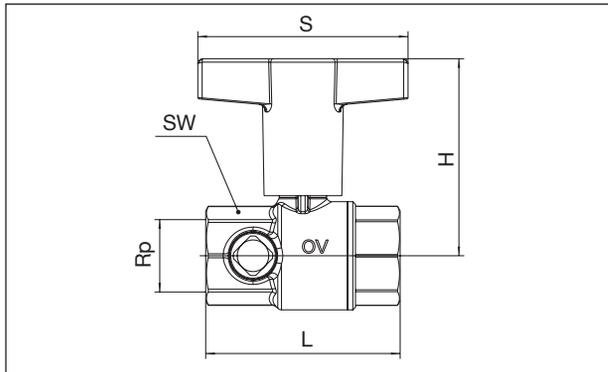


Flow chart

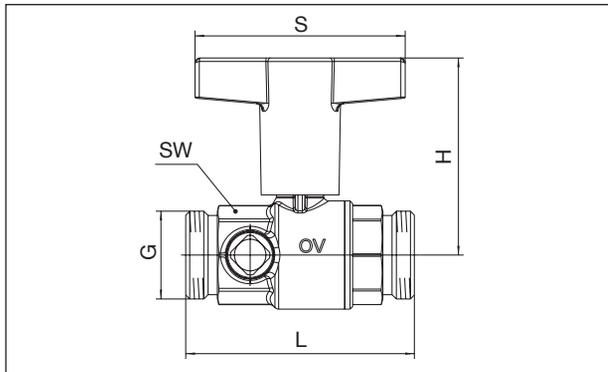
### Flow values with water (rounded values):

The different screw-in depths of the threaded pipes into the ball valves as well as a switching ball which is not fully open may result in deviating flow values.

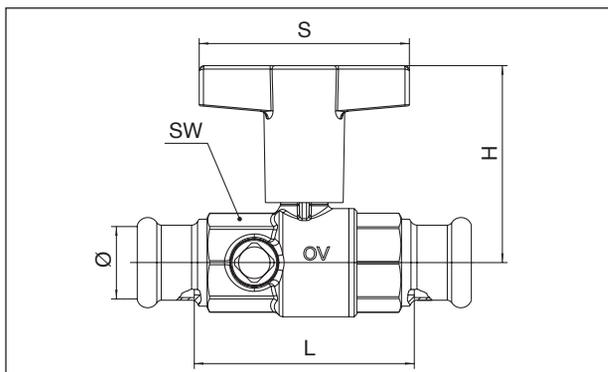
**Dimensions:**



Item no.:	DN	Rp	L	H	S	SW*
4208804	15	1/2	65	69	60	27
4208806	20	3/4	74	75	80	35
4208808	25	1	90	79	80	43
4208810	32	1 1/4	102	114	120	49
4208812	40	1 1/2	112	120	120	55
4208816	50	2	135	127	120	70



Item no.:	DN	G	L	H	S	SW*
4208904	15	3/4	76	69	60	27
4208906	20	1	87	75	80	35
4208908	25	1 1/4	104	79	80	43
4208910	32	1 1/2	106	114	120	49
4208912	40	1 3/4	115	120	120	55
4208916	50	2 3/8	126	127	120	70

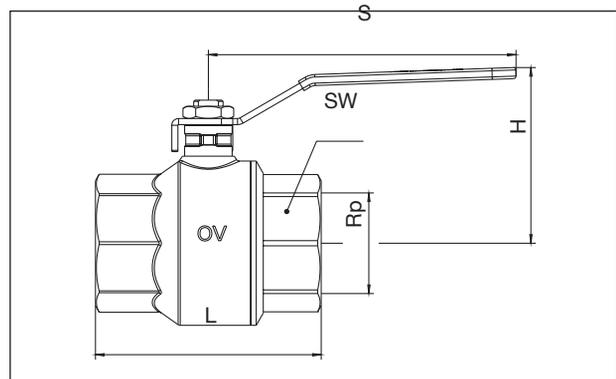


Item no.:	DN	Ø	L	H	S	SW*
4208852	15	15	70	69	60	27
4208853	15	18	70	69	60	27
4208854	20	22	81	75	80	35
4208855	25	28	97	79	80	43
4208856	32	35	111	114	120	49
4208857	40	42	120	120	120	55
4208858	50	54	144	127	120	70

\*SW = Spanner size

Subject to technical modifications without notice.

Product range 12  
ti 222-EN/10/MW  
Edition 2016



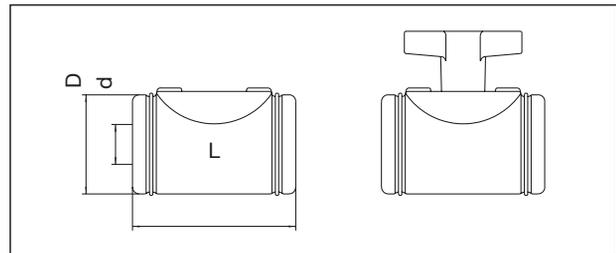
Item no.:	DN	Rp	L	H	S	SW*
4208820	65	2 1/2	160	131	252	90
4208824	80	3	185	143	252	105

\*SW = Spanner size

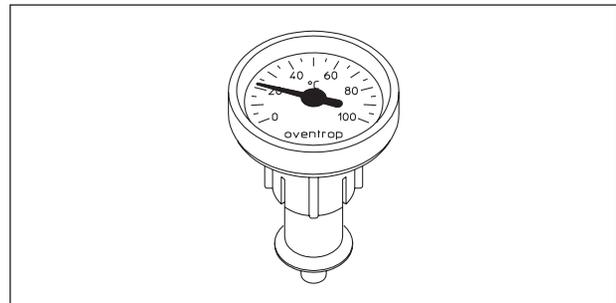
**Accessories:**

**Insulation shells:**

The insulation shells comply with the specifications of the German Energy Saving Directive (EnEV) according to appendix 5, table 1. The insulation shells consist of high-quality closed-cell foamed polyethylene with additional solid mesh effect. The material complies with the building material class B1 according to DIN 4102, behaviour in fire according to FMVSS 302 (burning rate < 100 mm/ min.) and the specifications according to UL 94 HF-1.



Item no.:	DN	d	D	L
4208881	15	1/2	62	82
4208882	20	3/4	72	90
4208883	25	1	89	110
4208884	32	1 1/4	109	122
4208885	40	1 1/2	155	142
4208886	50	2	190	165



Thermometer conversion set, anthracite  
for ball valves item no 420 88/89 06-16 and 420 88 54-58

DN 20+DN 25      Item no.: 1078382  
DN 32-DN 50      Item no.: 4208893