

# Socket Ball Valve

## Product Description

Shut-off ball valves made of brass with full bore. Hard chrome-plated ball in a Teflon seat. Control spindle with double O-ring seal.

Socket version with female thread on both sides. Sturdy metallic handle with covered stop and extended shaft for heat insulation as prescribed.

Versions in DN 20 to DN 50 (except F10121) with hollow spindle for the installation of a lever or thermometer handle.

## Important Note

For ball valves that remain in one specific operating position at all times, we recommend regular operation of at least once or twice a year; however, this will depend on application and operating conditions. By operating these valves in regular intervals, adverse affects to operation, all the way to damage, can be avoided.

## Technical Data

### Max. operating temperature:

110 °C permanent temperature  
(short-term 130 °C)

### Max. operating pressure:

10 bar

### Operating medium:

Heating water in accordance with VDI 2035

### Nominal pressure range:

PN 16

### Surface finish:

nickel-plated

### Thread:

ISO 228

## Materials

### Housing:

Nickel-plated brass

### Ball:

Chromium-plated brass

### Ball seal:

PTFE

### Spindle:

Brass

### Seal:

EPDM



Socket ball valve with lever handle



Socket ball valve with thermometer handle

## Area of Application



Heating systems

## Versions

With extended lever handle, metal, red coating

Article no.	Nom. diameter	Dimensions
F10120	DN 15	G1/2f
F10121	DN 20	G3/4f
F10122	DN 25	G1f
F10123	DN 32	G1 1/4f
F10115	DN 40	G1 1/2f
F10116	DN 50	G2f

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## Versions (continuation)

### With round thermometer handle in red, integrated Ø 63 mm thermometer

Article no.	Nom. diameter	Dimensions
F10118	DN 20	G3/4f
F10125	DN 25	G1f
F10126	DN 32	G1 1/4f
F99727	DN 40	G1 1/2f
F99771	DN 50	G2f

### With round thermometer handle in blue, integrated Ø 63 mm thermometer

Article no.	Nom. diameter	Dimensions
F10119	DN 20	G3/4f
F10150	DN 25	G1f
F10151	DN 32	G1 1/4f
F99728	DN 40	G1 1/2f
F99772	DN 50	G2f







## Insulation Shells

Article no.	Nom. diameter	Suitable for
F10555	DN 25	Ball valve DN 25
F10556	DN 32	Ball valve DN 32

# Socket Ball Valve

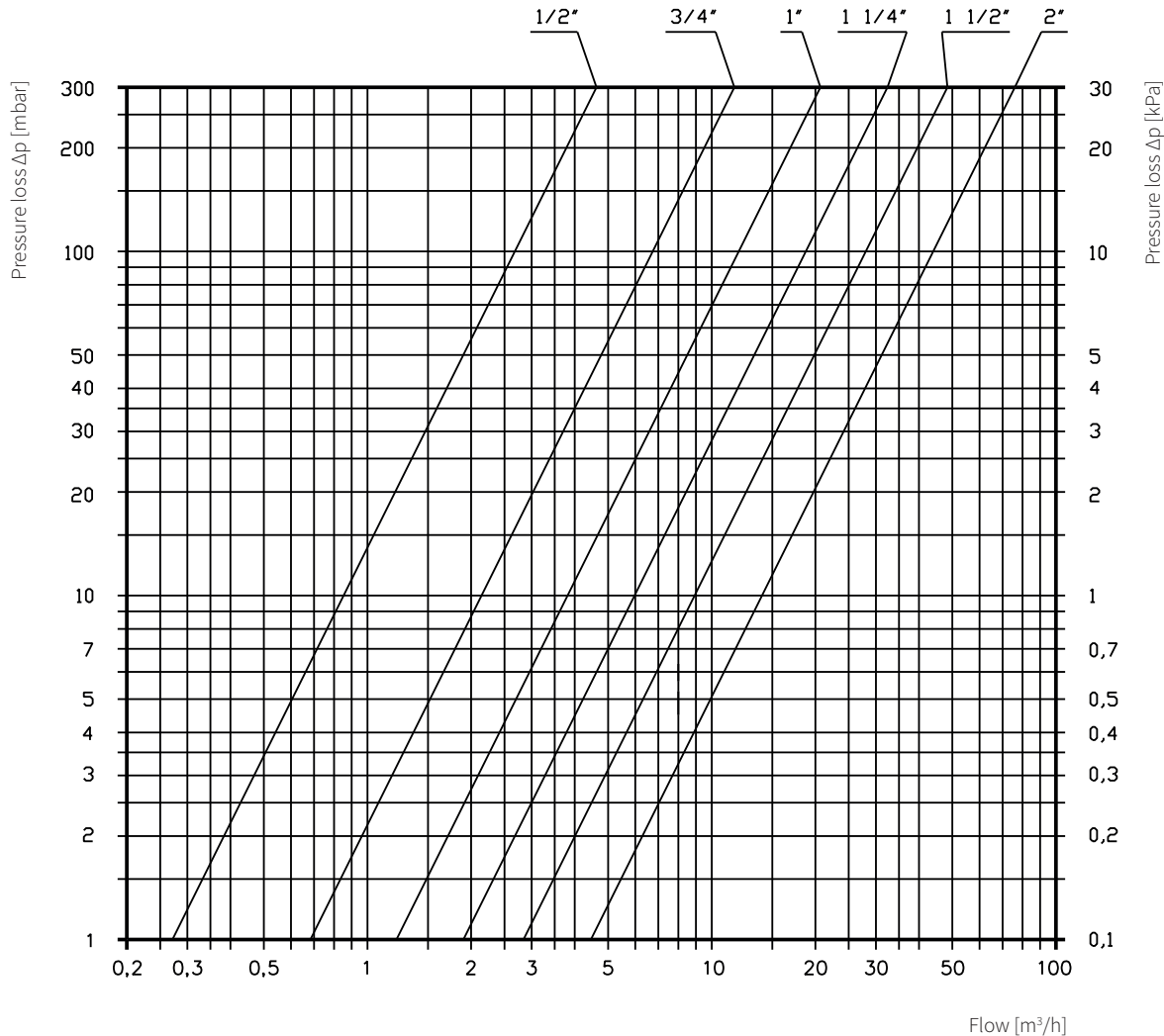
## Handle Types

All ball valves in versions DN 20 to DN 50 (except F10121) are equipped with a special hollow spindle, which allows the mounting of various handle options depending on the application. All handle types are interchangeable. The handles can be removed from and mounted on the valves without the use of tools.

	<b>Lever Handle</b>	Made of metal, red coated, extended version for insulation, according to German Ordinance on Thermal Insulation, DN 20-50 Article no. F10104
	<b>Thermometer Handle</b>	Metal body with plastic handle, integrated Ø 63 mm thermometer, accuracy class 2, DN 20-50 Article no. F10198 (colour red) Article no. F10199 (colour blue)
	<b>Thermometer Handle, long version</b>	Metal body with plastic handle, integrated Ø 63 mm thermometer, accuracy class 2, DN 20-50 Article no. F10304 (colour red)
	<b>T-Handle with integrated Thermometer</b>	Made of plastic/metal, with integrated Ø 32 mm thermometer, accuracy class 2, colour black, DN 20-50 Article no. F10197
	<b>T-Handle</b>	Plastic construction, colour black, DN 20-50 Article no. F10202
	<b>Thermometer Retrofit Kit</b>	Plastic construction, consisting of thermometer and matching cap, colour black Article no. F10108

# Socket Ball Valve

## Pressure Loss

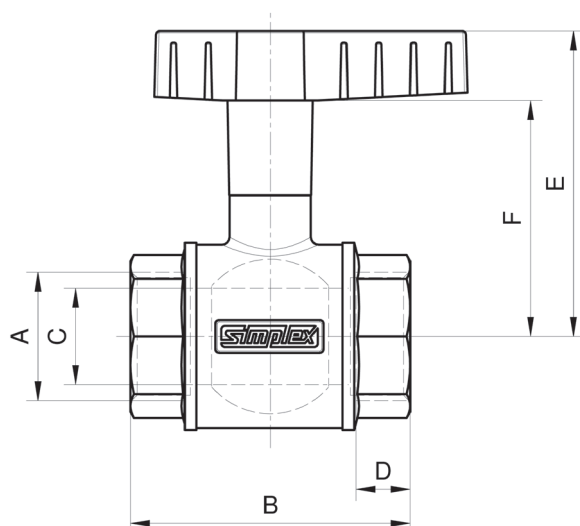


Dimension	G1/2	G3/4	G1	G1 1/4	G1 1/2	G2
$k_{vs}$ [m³/h]	8,4	21	38	58	88	138

# Socket Ball Valve

## Dimensional Drawings

With extended lever handle



Article no.	A	B	C	D	E	F
F10120	G1/2f	53	Ø 15	11	56	40
F10121	G3/4f	59	Ø 20	12	59	44
F10122	G1f	73	Ø 25	14	79	61
F10123	G1 1/4f	80	Ø 32	15	83	65
F10115	G1 1/2f	93	Ø 40	16	89	71
F10116	G2f	107	Ø 50	17	97	79

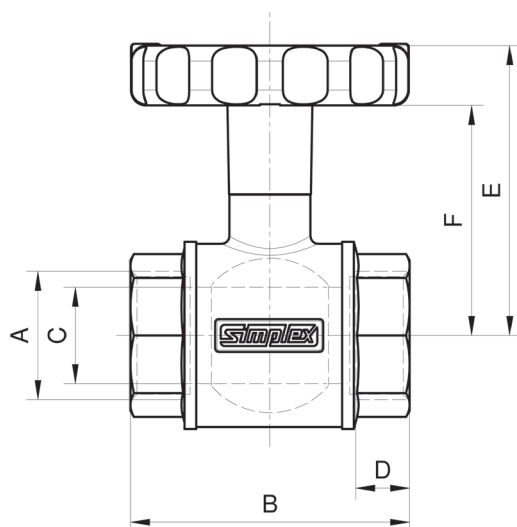
Gm = parallel male thread in inches [""] acc. to DIN EN ISO 228-1

Gf = parallel female thread in inches [""] acc. to DIN EN ISO 228-1  
data in mm

# Socket Ball Valve

## Dimensional Drawings

With round thermometer handle



Article no.	A	B	C	D	E	F
F10118	G3/4f	59	Ø 20	12	73	58
F10119	G3/4f	59	Ø 20	12	73	58
F10125	G1f	73	Ø 25	14	75	60
F10150	G1f	73	Ø 25	14	75	60
F10126	G1 1/4f	80	Ø 32	15	79	63
F10151	G1 1/4f	80	Ø 32	15	79	63
F99727	G1 1/2f	93	Ø 40	15	86	70
F99728	G1 1/2f	93	Ø 40	15	86	70
F99771	G2f	107	Ø 50	17	93	77
F99772	G2f	107	Ø 50	17	93	77

Gm = parallel male thread in inches [""] acc. to DIN EN ISO 228-1

Gf = parallel female thread in inches [""] acc. to DIN EN ISO 228-1  
data in mm



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