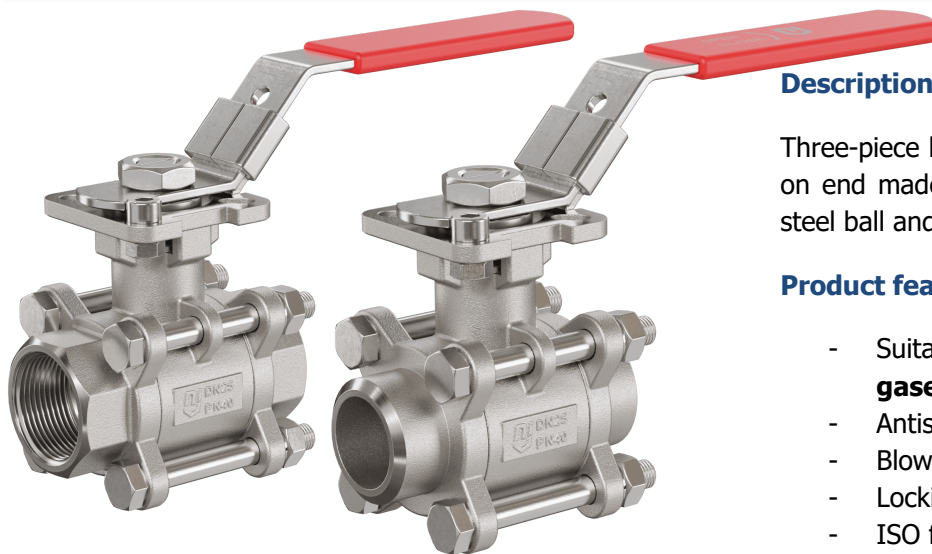


Three-piece stainless steel ball valve TYPE GK20



Description:

Three-piece ball valve with threaded connection or weld-on end made of stainless steel with full bore. Stainless steel ball and handle for shutting off systems.

Product features:

- Suitable for neutral and non-neutral **liquid and gaseous media**
- Antistatic design
- Blow-out proof switching spindle
- Locking device
- ISO flange 5211 for drive assembly

Sizes:

1/4" - DN8, 3/8" - DN10, 1/2" - DN15, 3/4" - DN20, 1" - DN25, 1 1/4" - DN32, 1 1/2" - DN40, 2" - DN50

Construction:

full bore

Pressure:

max. 63 bar
(see pressure-temperature diagram)

Design:

Three-piece body with full bore & mounting flange to ISO5211

Connection:

Female thread BSP 228-1 | female thread NPT | welding ends BW

Body material:

Stainless steel CF8M / ASTM A351 CF8M

Ball material:

Stainless steel 1.4401 / AISI 316

Seat:

PTFE with 15% glass fiber

Stem seal:

PTFE + FKM

Lever handle:

Stainless steel 1.4301 / AISI 304 with plastic coating

Mounting flange:

According to ISO 5211

Temperature:

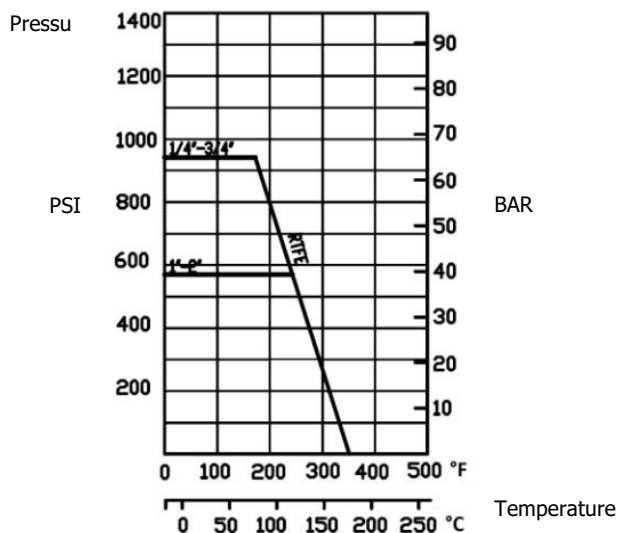
-20°C to +180°C - depending on operating pressure

Max. Max. pressure:

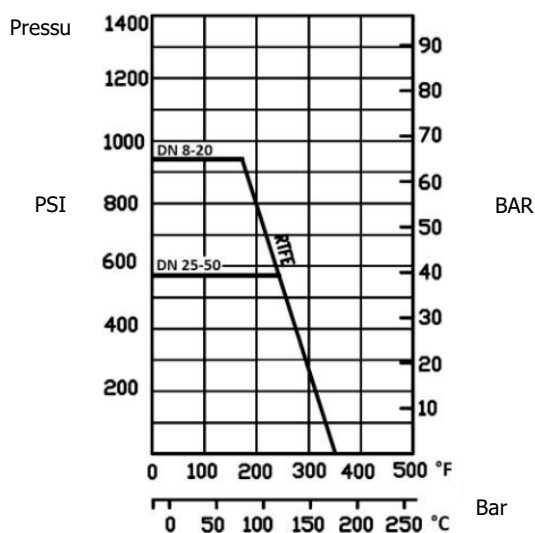
max. 63 bar for 1/4" (DN8) to 3/4" (DN20)
max. 40 bar for 1" (DN25) to 2" (DN50)

Pressure-temperature diagram (steam and compressed air excluded):

For connections with BSP & NPT thread:

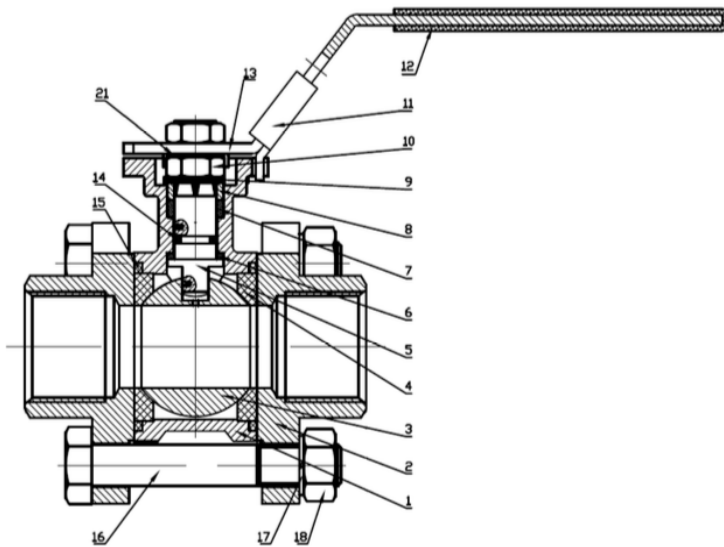


For connections with welding ends:

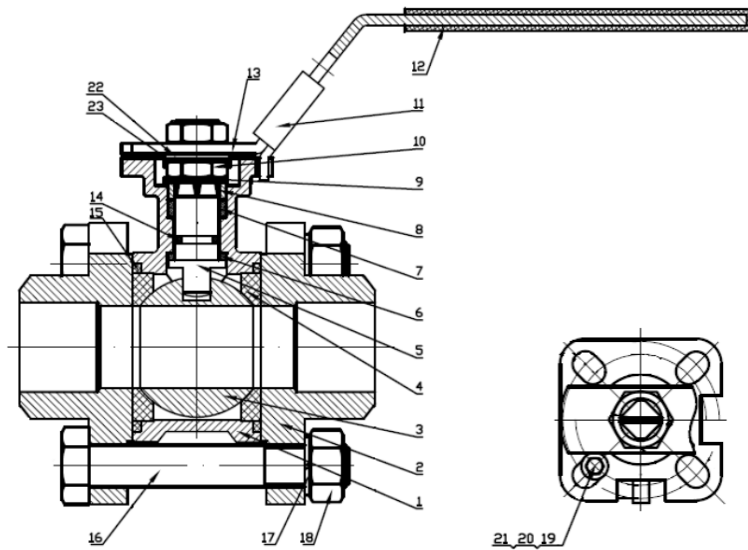


Materials:

For connections with BSP & NPT thread:



For connections with welding ends:

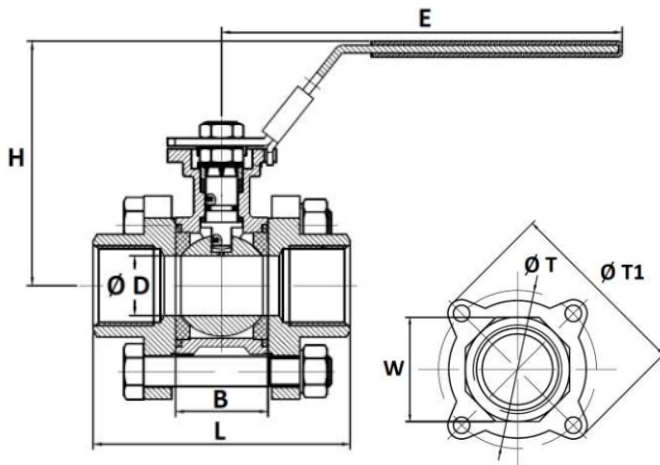


No.	Designation	Material
1	Housing	1.4408 / ASTM A351 CF8M
2	Sealing cap	1.4408 / ASTM A351 CF8M
3	Ball	1.4401 / AISI 316
4	Seat	PTFE + 15% glass fiber
5	Spindle	1.4401 / AISI 316
6	Spindle seal	PTFE
7	Packing	PTFE
8	Thrust washer	1.4301 / AISI 304
9	Elastic ring	1.4301 / AISI 304
10	Stuffing box nut	1.4301 / AISI 304
11	Locking device	1.4301 / AISI 304
12	Handle cover	Plastic
13	Handle	1.4301 / AISI 304
14	O-ring	FKM
15	Housing seal	PTFE
16	Screw	1.4301 / AISI 304
17	Washer	1.4301 / AISI 304
18	Nut	1.4301 / AISI 304
21	Washer	1.4301 / AISI 304

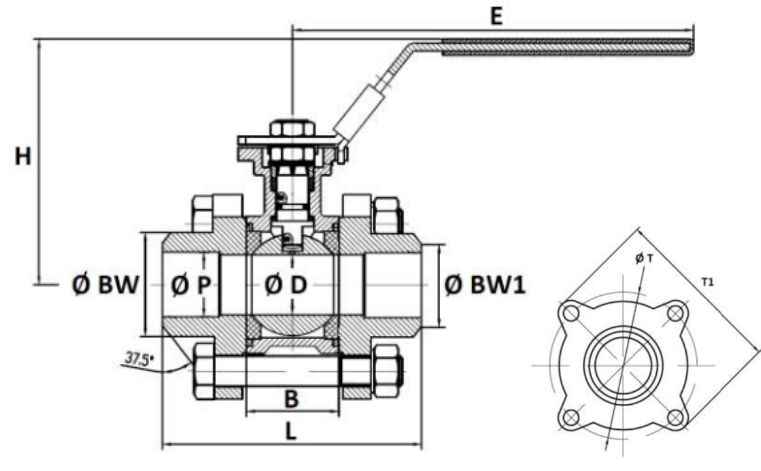
No.	Designation	Material
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6	Spindle seal	PTFE
7	Packing	PTFE
8	Thrust washer	1.4301 / AISI 304
9	Elastic ring	1.4301 / AISI 304
10	Stuffing box nut	1.4301 / AISI 304
11	Locking device	1.4301 / AISI 304
12	Handle cover	Plastic
13	Handle	1.4301 / AISI 304
14	O-ring	FKM
15	Housing seal	PTFE
16	Screw	1.4301 / AISI 304
17	Washer	1.4301 / AISI 304
18	Nut	1.4301 / AISI 304
19	Stop	1.4301 / AISI 304
20	Washer	1.4301 / AISI 304
21	Nut	1.4301 / AISI 304
22	Washer	1.4301 / AISI 304
23	Ring	1.4301 / AISI 304

Dimensions:

For connections with BSP & NPT thread:



For connections with welding ends:



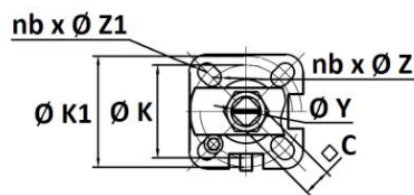
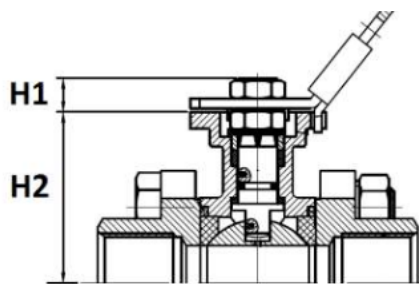
DN	1/4" / DN8	3/8" / DN10	1/2" / DN15	3/4" / DN20	1" / DN25	1 1/4" / DN32	1 1/2" / DN40	2" / DN50
Ø D	11,5	12,5	15	20	25	32	38	50
L	64	64	66	70,6	82	97	109	124,6
B	26	26	26	28,6	34	44	51	62,8
E	141	141	141	141	162	162	188	188
H	75	75	75	81	93	98	109	124
Ø T	47,5	47,5	47,5	51,5	58	70	81,5	101
T1	62	62	62	66	74,5	86,5	100,5	121,5

For connections with BSP & NPT thread

W	18	21	26	32	39	48	55	67
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For connections with welding ends

Ø BW	-	-	22	27,3	34	42,7	48,7	61
Ø BW 1	-	-	17	22,5	28,6	36	43	54
Ø P	-	-	15	20	25	32	39,8	50,0
Weight (kg)	0,61	0,61	0,65	0,75	1,08	1,55	2,43	3,70



DN	1/4" / DN8	3/8" / DN10	1/2" / DN15	3/4" / DN20	1" / DN25	1 1/4" / DN32	1 1/2" / DN40	2" / DN50
C	9	9	9	9	11	11	14	14
Ø Y	M12x1.5	M12x1.5	M12x1.5	M12x1.5	M14x1.5	M14x1.5	M18x1.5	M18x1.5
H1	9	9	9	9	11	11	15	15
H2	42	42	42	48	55	60	70	85
Ø K	36	36	36	36	42	42	50	50
ISO	F03	F03	F03	F03	F04	F04	F05	F05
nb x Ø Z	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 7	4 x 7
Ø K1	42	42	42	42	50	50	70	70
ISO 1	F04	F04	F04	F04	F05	F05	F07	F07
N x Ø Z1	4 x 6	4 x 6	4 x 6	4 x 6	4 x 7	4 x 7	4 x 9	4 x 9

Flow rate (Kvs values in m³/h):

DN	1/4" / DN8	3/8" / DN10	1/2" / DN15	3/4" / DN20	1" / DN25	1 1/4" / DN32	1 1/2" / DN40	2" / DN50
Kvs	5,2	5,2	20,7	30,2	40,6	70	90,8	208,4

Torque (in Nm without safety factor)

DN	1/4" / DN8	3/8" / DN10	1/2" / DN15	3/4" / DN20	1" / DN25	1 1/4" / DN32	1 1/2" / DN40	2" / DN50
Tightening	2	2	2,5	3,5	6	7	12	16

Max. Tightening torques (in Nm):

DN	1/4" / DN8	3/8" / DN10	1/2" / DN15	3/4" / DN20	1" / DN25	1 1/4" / DN32	1 1/2" / DN40	2" / DN50
Tightening	4	4	8	8	10	13	20	20

Standards:

- DIRECTIVE 2014/68/EU: For liquids and gases of group 1
 - DN 1/4" (DN8) - 1" (DN25): Article 4, §3 (SEP), no CE marking
 - DN 1 1/4" (DN32) - 2" (DN50): Risk Category II, CE0038 or CE0343
- Construction according to EN 12516-2
- Pressure tests according to API 598
- BSP thread according to ISO 228-1
- NPT thread according to ANSI B1.20.1
- Mounting flange according to ISO 5211

Options (on request):

- ATEX

Article number:

Version	Connection	Version	size
GK20	00 - Female thread BSP 01 - Weld-on ends* 02 - Female thread NPT*	00 - ISO 5211 mounting flange	01 - 1/4" / DN8 02 - 3/8" / DN10 03 - 1/2" / DN15 04 - 3/4" / DN20 05 - 1" / DN25 06 - 1 1/4" / DN32 07 - 1 1/2" / DN40 08 - 2" / DN50

Example no. GK20000004

GK20	00	00	04
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Three-piece stainless steel ball valve

Connection: Female thread BSP
 Version: Standard
 Size: 3/4" / DN20

*Versions 01 - welding end and 02 - female thread NPT only available from nominal width 1/2" / DN15

Illustration similar, technical and dimensional changes reserved.