



V17

GACHOT®
BALL VALVE



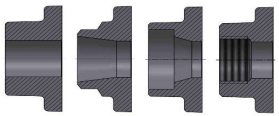
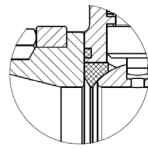
GACHOT®

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V17 BALL VALVE FEATURES

Performance	The maximum pressures and temperatures depend on the pressure / temperature ratio and type of fluid. Temperature, °C: -196 °C * to 350 °C to 700 °C Pressure, bar: 0 to 220 to 220 bar Diameter, mm: DN8 to DN150 to DN250 * Cryogenic version
Features	Ball valve (high pressure) 3-Piece. • Integrated ISO top flange for easy automation. • Stainless steel or carbon steel. • Full bore or Reduced bore. • Connections screwed in body.
Technology	3-Piece Technology and Floating Sphere
Cable gland	Anti-ejection and anti-loosening system, with force resumption, guaranteeing a perfect seal with a series of gaskets.
Ends	Available in weld (BW and SW), threaded gas / conical gas / NPT, with flanges (PN, Class), or other on request. 
Ball	- Standard built-in decompressor. - Designed to reduce pressure loss. - Specific finish upon request. 
Lockable lever	Lockable lever with stainless steel trigger as standard for DN15 to 50. 
Tightness	Two lip seats coupled with two body seals guarantee tightness. 
Face to Face	EN 12982 / EN 558 Series 1
Design standard	EN 13445 / EN 12516-2 + EN 1626 (Cryogenic version)
Sealing standard	NF EN 12266 / ISO 5208 Rate A
Flange standard	EN 1092-1 / EN 1759-1 / ISO 7005
Options	Cryogenic version with 150 or 300 mm extension. Lockable lever version for DN65 to 150.
Approvals	   

V17 BALL VALVE OPERATION

Ball sealing

The ball is the sealing component that stops flow. It is set between two elastic lip seats that ensure sealing. This floating assembly enables the ball to move in the flow direction when the valve is closed.

Figure 1 : Sealing is provided by both seat washers when there is no pressure.

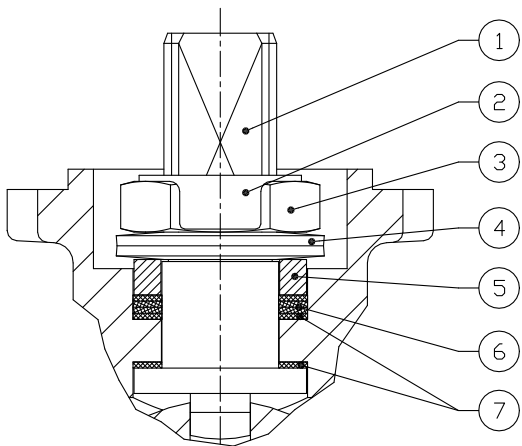
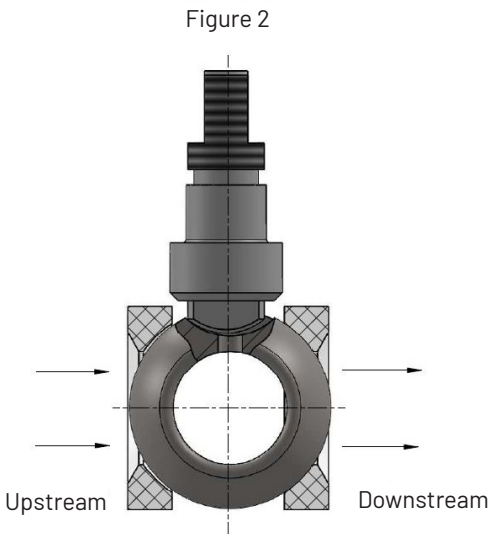
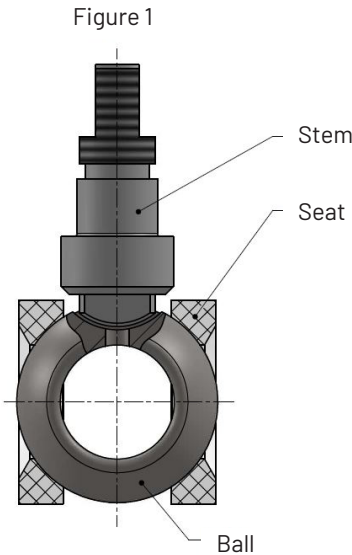
Figure 2 : The ball moves slightly towards the downstream seat when upstream pressure increases, thus increasing downstream seat pressure. A seat is designed so that when the ball pressure increases on it, the surface area also increases between both parts, which prevents any leakage. Also, this downstream seat pressure increase reduces upstream seat pressure. Thus, minimising the valve actuating torque gap on the whole pressure range.

Stem sealing

The GACHOT® V17 Ball Valve stem is mounted inside in order to prevent it from being ejected. A wide shoulder on the lower part of the stem prevents its ejection, even under extreme internal pressure.

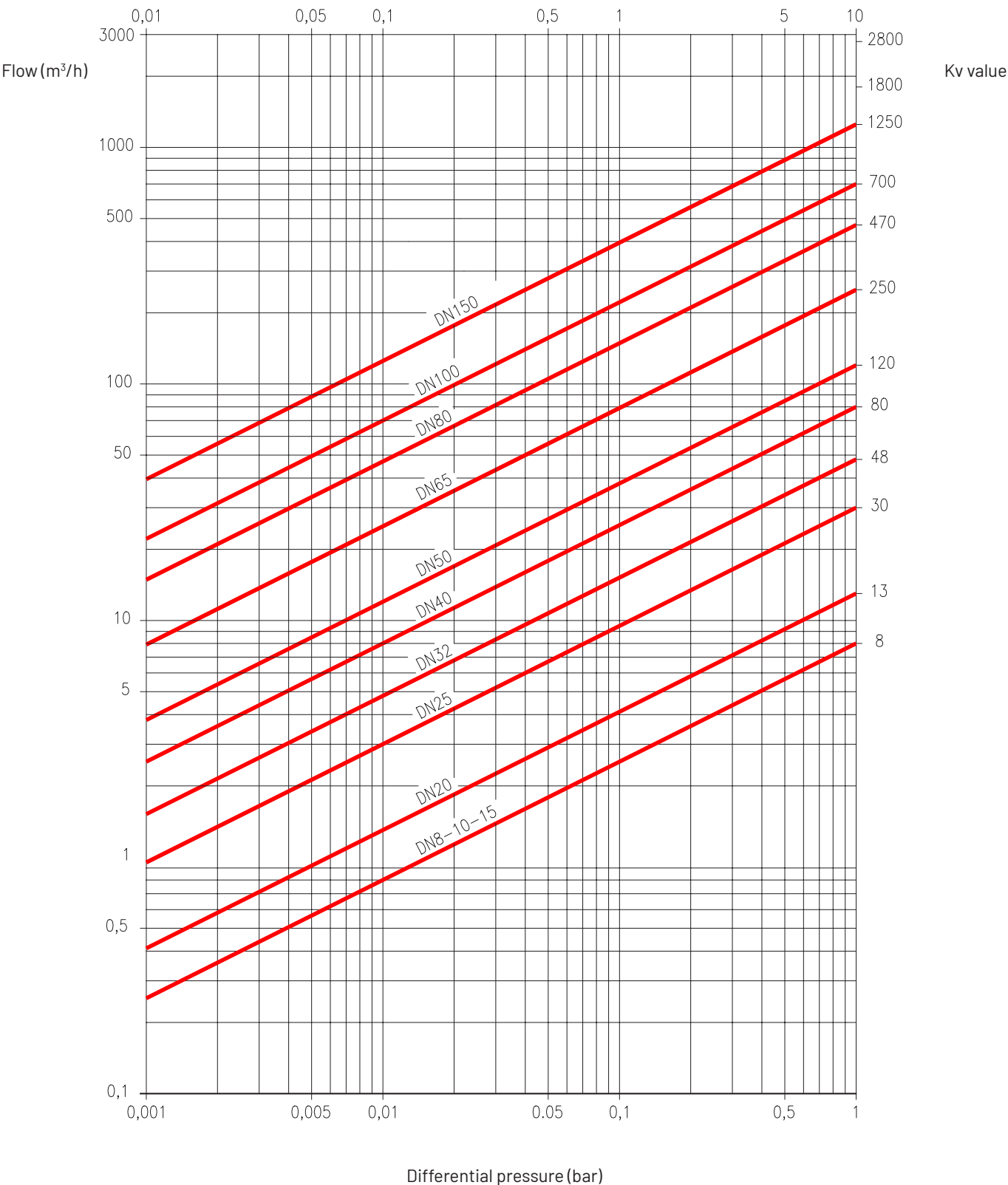
Pressure exerted on this shoulder also increases when internal pressure increases. This logically increases pressure exerted on the cable gland seal and thus enhances external tightness.

If no pressure is exerted and a vacuum operation is ongoing, seals are compressed by the support ring, moved by the spring washers, ensuring tightness.



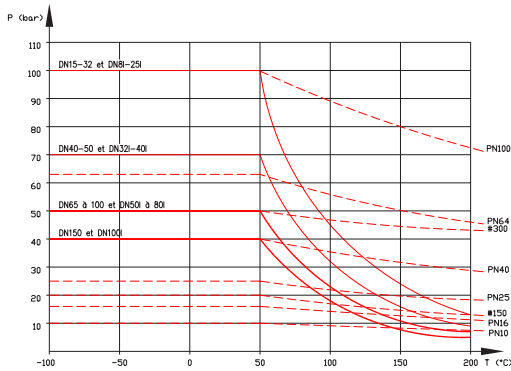
Name	
①	Stem
②	Brake nut
③	Nut
④	Spring washer
⑤	Support rings
⑥	Gasket
⑦	Seal

Kv VALUES AND PRESSURE LOSS FOR V17 BALL VALVE WITH REDUCED PORT (WATER AT 20 °C)

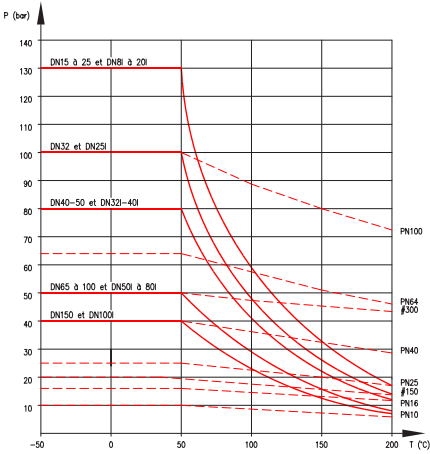


PRESSURE / TEMPERATURE CHARACTERISTICS: SEAT FEATURES

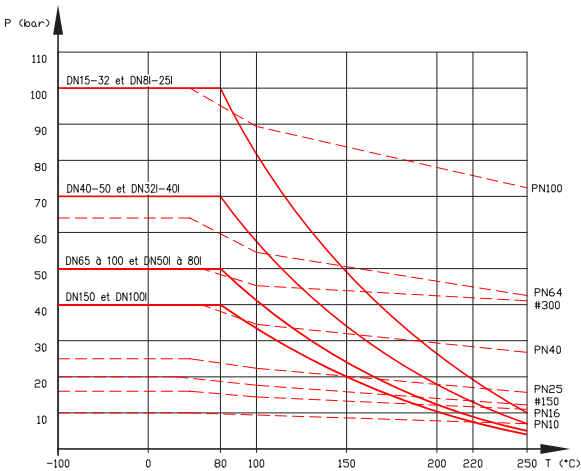
PTFE



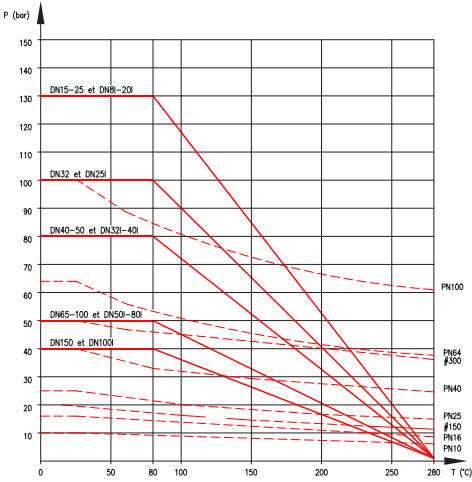
50% Stainless steel reinforced PTFE



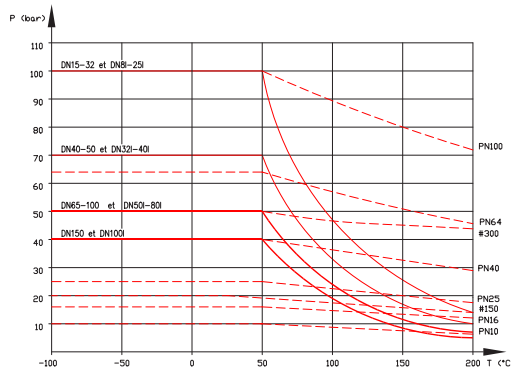
25% Carbon steel reinforced PTFE (TF4215) ®



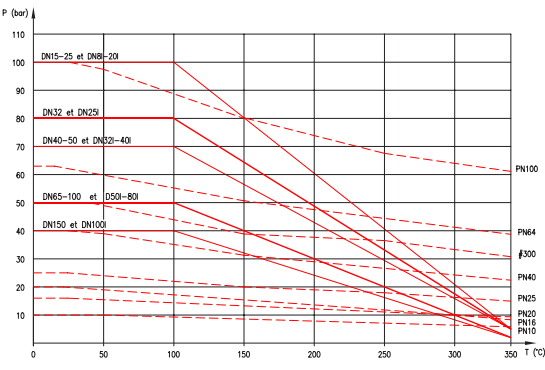
PEEK



15% Glass reinforced PTFE

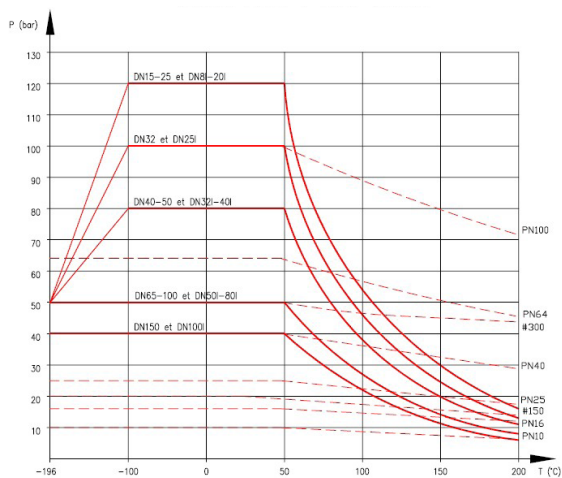
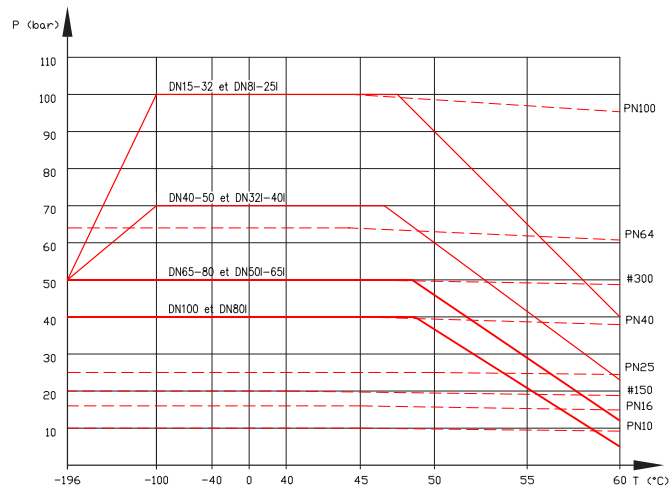
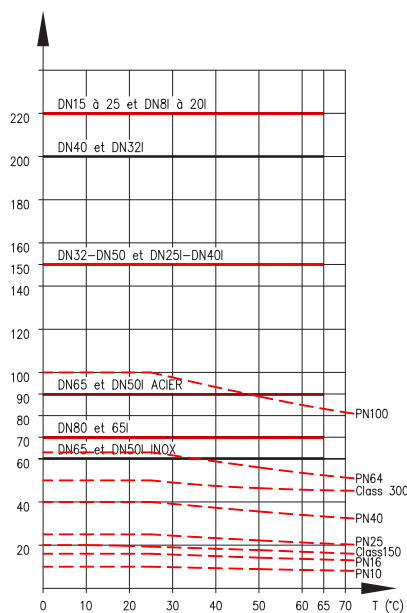
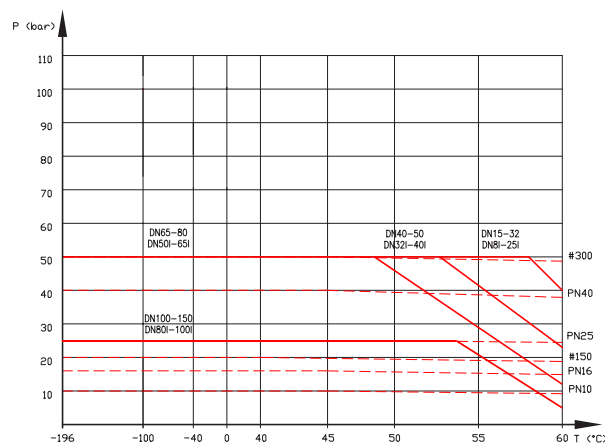


Vespel seat



Please contact your SAPAG VALVES sales representative for other materials

PRESSURE / TEMPERATURE CHARACTERISTICS: SEAT FEATURES

25% Glass reinforced PTFE

Polyethylene seat

DELRIN®

Polyethylene EN 1626


Please contact your SAPAG VALVES sales representative for other materials

PRESSURE / TEMPERATURE CHARACTERISTICS: BODY FEATURES

Body features (bar)

Flange connection	F to F ⁽¹⁾	DN8I	DN15 DN10I	DN20 DN15I	DN25 DN20I	DN32 DN25I	DN40 DN32I	DN50 DN40I	DN65 DN50I	DN80 DN65I	DN100 DN80I	DN150 DN100I
Butt Weld	-	-	100	100	100	80	70	70	50	50	50	40
SW, Threaded	-	100	100	100	100	80	70	70	50	50	50	-
Flanged PN10 to PN100	Series 1	-	100	100	100	63	63	63	40	40	40	40
Flanged Class 150 (PN20)	Series 1	-	20	20	20	20	20	20	20	20	20	20
Flanged Class 300 (PN50)	Series 1	-	50	50	50	50	50	50	50	50	50	-
Flanged Class 300 (PN50)	Series 4	-	50	50	50	50	50	50	50	50	50	-
Butt Weld ⁽²⁾	-	220	220	220	220	150	200	150	90 ⁽³⁾	70	-	-
SW, Threaded ⁽²⁾	-	220	220	220	220	150	200	150	90 ⁽³⁾	70	-	-

(1) F to F according to EN 558 / EN 12982.

(2) High pressure version with seats Delrin®.

(3) For the carbon steel bodies, 60 bars for the Stainless steel bodies.

Maximum actuating torques (N.m)

DN		ΔP (bar) PTFE seats										
Reduced port	Full port	0	6	10	16	25	40	64	100			
15	8/10	5	5	5	5	5	9	16	26			
20	15	6	6	6	6	6	10	17	27			
25	20	11	11	11	11	11	13	19	30			
32	25	18	18	18	18	18	22	27	36			
40	32	24	24	24	24	24	30	40	55			
50	40	30	30	30	30	30	35	35	60			
65	50	60	60	60	65	78	102	140	-			
80	65	95	95	95	105	120	155	215	-			
100	80	155	155	155	165	180	215	275	-			
150	100	215	215	215	230	250	300	-	-			
DN		ΔP (bar) reinforced glass, TF4215®, reinforced stainless steel, PEEK seats										
Reduced port	Full port	0	6	10	16	25	40	64	100			
15	8/10	6	6	6	6	6	11	19	31			
20	15	7	7	7	7	7	13	20	32			
25	20	13	13	13	13	13	17	24	36			
32	25	22	22	22	22	22	26	34	43			
40	32	29	29	29	29	29	36	48	65			
50	40	36	36	36	36	36	43	55	72			
65	50	72	72	72	81	94	122	170	-			
80	65	115	115	115	125	145	190	260	-			
100	80	180	180	180	190	210	250	315	-			
150	100	250	250	250	265	290	350	-	-			
DN		ΔP (bar) cryogenic seats										
Reduced port	Full port	0	6	10	16	25	40	64	100			
15	8/10	7	7	7	7	7	14	24	40			
20	15	10	10	10	10	10	16	26	41			
25	20	17	17	17	17	17	20	29	46			
32	25	28	28	28	28	28	32	42	54			
40	32	36	36	36	36	36	46	60	82			
50	40	46	46	46	46	46	54	68	88			
65	50	90	90	90	100	118	154	210	-			
80	65	144	144	144	155	180	235	320	-			
100	80	235	235	235	250	270	325	410	-			
150	100	325	325	325	345	380	450	-	-			

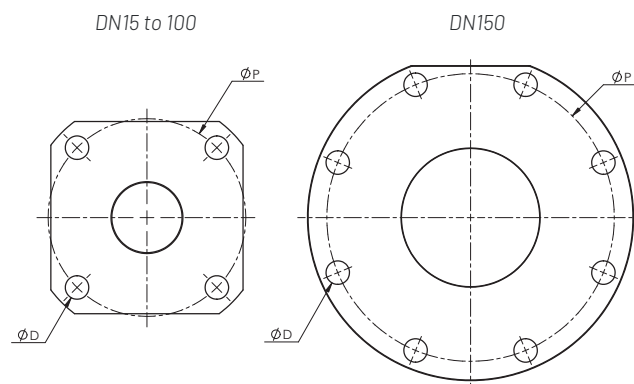
Operating torque in N.m, in clean water at 20°C.

Multiply values shown by 1.5 for actuator torque. Add 20% to given torques for any kind of non-lubricant fluid.

FLANGE DRILLING AND TIGHTENING TORQUE DIAGRAM

Connecting flange dimensions

DN Reduced port	DN Full port	ØD	ØP	Screw
15	8/10	6,5	45	4 x M6
20	15	8,5	53,1	4 x M8
25	20	8,5	63	4 x M8
32	25	8,5	71,5	4 x M8
40	32	10,5	81	4 x M10
50	40	10,5	94,5	4 x M10
65	50	13	118	4 x M12
80	65	17	140	4 x M16
100	80	21	180	4 x M20
150	100	17	208	8 x M16

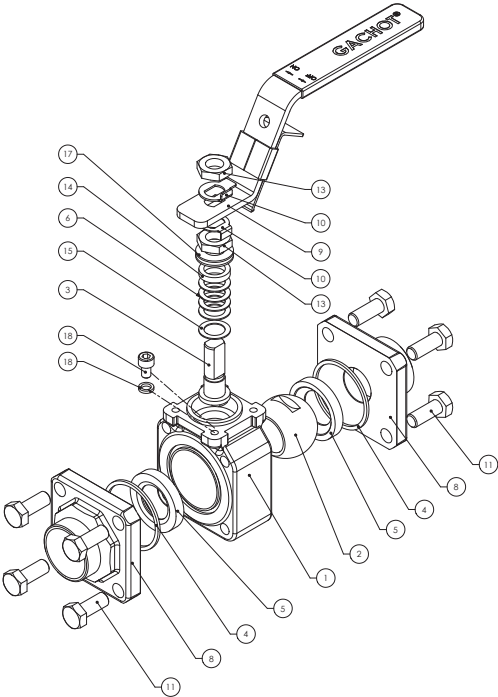


Body screw tightening torques

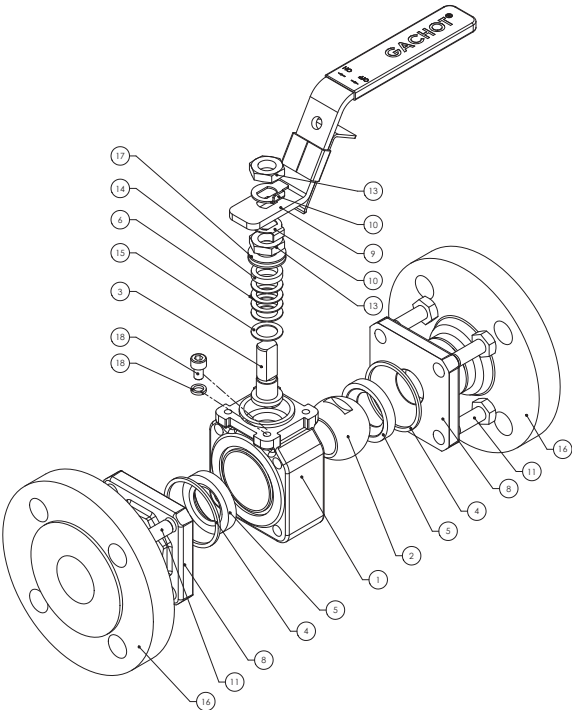
DN Reduced port	DN Full port	Tapping	Torque (N.m)
15	8/10	M6	11-13
20	15	M8	14-18
25	20	M8	14-18
32	25	M8	14-18
40	32	M10	27-33
50	40	M10	27-33
65	50	M12	72-88
80	65	M16	108-132
100	80	M20	180-220
150	100	M16	180-220

V17 BALL VALVE: EXPLODED VIEW

Ball valve DN15 to DN150 with end piece
(Butt-weld - Socket-weld - Threaded)

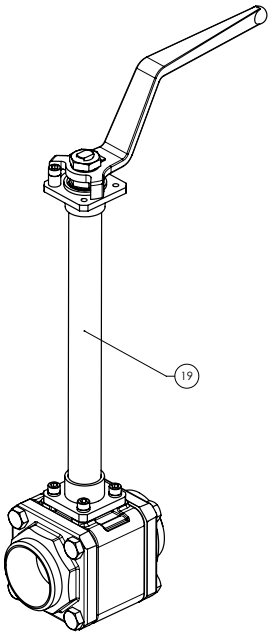


Ball valve DN15 to DN150
with flanges



	Name
1	Body
2	Ball
3	Stem
4	Body seal
5	Seat
6	Gasket
8	Connecting piece
9	Lever
10	Brake nut
11	Screw
13	Stem nut
14	Support rings
15	Stem seal
16	Flange
17	Spring washer
18	Stop
19	Cryogenic extension

Ball valve DN15 to DN150
Cryogenic Version



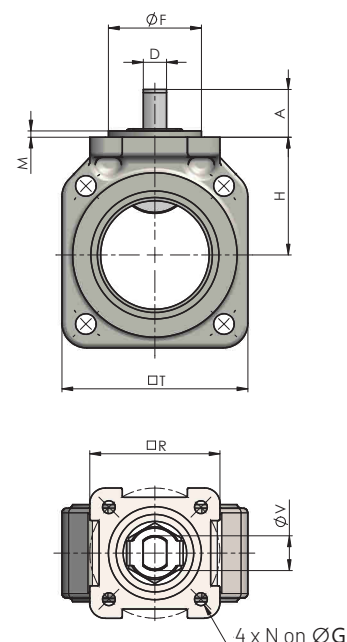
MATERIAL SPECIFICATIONS

Name	Carbon steel valves		Stainless steel valves	
	EN / DIN	AISI / ASTM	EN / DIN	AISI / ASTM
① Body	GP240GH 1.0619	A216-WCB A105	GX2CrNiMo19-11-2 1.4409	A351-CF3M 316L
② Ball	GX5CrNiMo 19-11-2 1.4408	A351-CF8M 316	GX2CrNiMo19-11-2 1.4409	A351-CF3M 316L
	GX2CrNiMo 19-11-2 1.4409	A351-CF3M 316L	GX5CrNiMo19-11-2 1.4408	A351-CF8M 316
③ Stem	X2CrNiMo 17-12-2 1.4404	A276 (DN 15-50) 316L	X2CrNiMo 17-12-2 1.4404	A276 (DN 15-50) 316L
	X2CrNiMo N22-5-3 (DN 65-150) 1.4462		X2CrNiMo N22-5-3 (DN 65-150) 1.4462	
④ Body seal	PTFE/Stain. steel PTFE / Carbon PTFE (TF4215®)/ graphite/Vespel/PEEK/ Polyethylene/PCTFE/ Viton®/TFM1600	PTFE/Stain. steel PTFE / Carbon PTFE (TF4215®)/ graphite/Vespel/PEEK/ Polyethylene/PCTFE/ Viton®/TFM1600	PTFE/Stain. steel PTFE / Carbon PTFE (TF4215®)/ graphite/Vespel/PEEK/ Polyethylene/PCTFE/ Viton®/TFM1600	PTFE/Stain. steel PTFE / Carbon PTFE (TF4215®)/ graphite/Vespel/PEEK/ Polyethylene/PCTFE/ Viton®/TFM1600
⑤ Seat	PTFE/ Carbon PTFE (TF4215®)/ Glass reinf. PTFE/ Stain. steel reinf. PTFE/ PEEK/ Vespel/ Polyethylene/ TFM1600	PTFE/ Carbon PTFE (TF4215®)/ Glass reinf. PTFE/ Stain. steel reinf. PTFE/ PEEK/ Vespel/ Polyethylene/ TFM1600	PTFE/ Carbon PTFE (TF4215®)/ Glass reinf. PTFE/ Stain. steel reinf. PTFE/ PEEK/ Vespel/ Polyethylene/ TFM1600	PTFE/ Carbon PTFE (TF4215®)/ Glass reinf. PTFE/ Stain. steel reinf. PTFE/ PEEK/ Vespel/ Polyethylene/ TFM1600
⑥ Gasket	Antistatic carbon PTFE / Carbon PTFE/ PTFE FPM®/ TFM1600/Polyethylene/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE	Antistatic carbon PTFE / Carbon PTFE/ PTFE FPM®/ TFM1600/Polyethylene/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE	Antistatic carbon PTFE / Carbon PTFE/ PTFE FPM®/ TFM1600/Polyethylene/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE	Antistatic carbon PTFE / Carbon PTFE/ PTFE FPM®/ TFM1600/Polyethylene/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE
⑧ Connecting piece	PG250GH 1.0460	A105	X2CrNiMo 17-12-2 1.4404	A276 316L
⑨ Lever	1.4301	304	1.4301	304
⑩ Brake nut	1.4306	302	1.4306	302
⑪ Screw	A4-80	A4-80	A4-80	A4-80
⑬ Stem nut	1.4301	304	1.4301	304
⑭ Support ring	1.4301	304	1.4301	304
⑮ Stem seal	Glass reinf. PTFE Carbon PTFE/Polyethylene/ Nitalon®(HP)/TFM1600/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE	Glass reinf. PTFE Carbon PTFE/Polyethylene/ Nitalon®(HP)/TFM1600/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE	Glass reinf. PTFE Carbon PTFE/Polyethylene/ Nitalon®(HP)/TFM1600/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE	Glass reinf. PTFE Carbon PTFE/Polyethylene/ Nitalon®(HP)/TFM1600/ Stain. steel reinf. PTFE/ Graphite/Vespel/PEEK/ Viton®/PCTFE
⑯ Flange	GP240GH 1.0619	A216-WCB A105	X2CrNiMo 17-12-2 1.4404	A276 316L
⑰ Spring washer	1.431	301	1.431	301
⑱ Stop	A2-70	A193 B8	A2-70	A193 B8
⑲ Cryogenic extension			X2CrNiMo 17-12-2 1.4404 GX2CrNiMo19-11-2 1.4409	A276 316L A51-CF3M 316L

SIZES

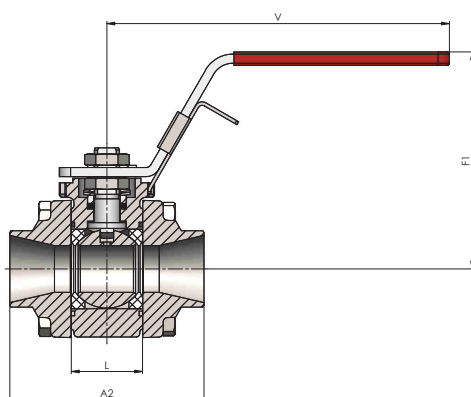
Top flange (DN with « I » for full bore)

DN	ISO	A	D	ØF	ØG	H	M	N	R	T	ØV
8I											
10I	F03	10	5.4	25	36	30	2	M5	36	34.5	9.5
15											
15I	F03	10	5.4	25	36	32	2	M5	36	41	9.5
20											
20I	F04	15	7.5	30	42	38	2	M5	42	50	11.1
25											
25I	F04	22	7.5	30	42	36	2	M5	38.5	59	11.1
32											
32I	F05	29	8.9	35	50	42	3	M6	47	66	14.3
40											
40I	F05	30	8.9	35	50	46.5	3	M6	50	79	14.3
50											
50I	F07	16	8,9	55	70	70	3	M8	70	107	14,3
65											
65I	F07	54	19	55	70	99	3	M8	70	128	22,5
80											
80I	F10	54	19	70	102	114	3	M10	95	168	22,5
100											
100I	F10	54	19	70	102	128	3	M10	95	Ø234	22,5
150											

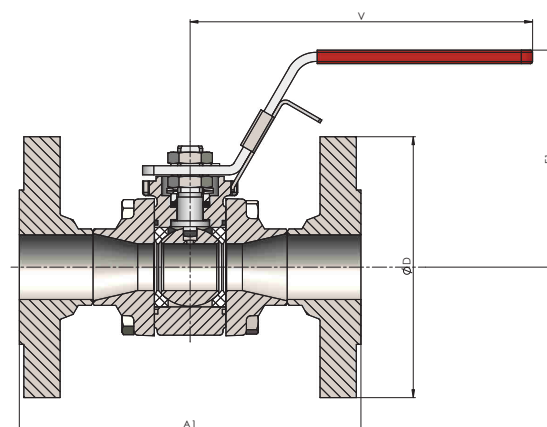


Dimensions (DN with « I » for full bore)

BW – SW – Threaded version



Flange version

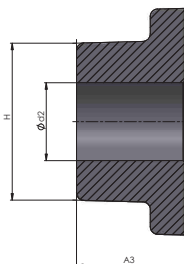


DN	A1	A2	ØD (PN16)	F1	L	V	Ball bore
8I / 10I	130	65	90	85	20.4	150	11.1
15	130	65	95	85	20.4	150	11.1
15I	130	70	95	88	24.5	150	14.2
20	150	70	105	88	24.5	150	14.2
20I	150	85	105	95	31.4	150	20.6
25	160	85	115	95	31.4	150	20.6
25I	160	100	115	100	41.3	150	25.4
32	180	100	140	100	41.3	150	25.4
32I	180	110	140	125	48.4	200	31.7
40	200	110	150	125	48.4	200	31.7
40I	200	125	150	130	56.3	200	38
50	230	125	165	130	56.3	200	38
50I	230	143	165	158	71.4	250	50
65	290	143	185	158	71.4	250	50
65I	290	170	185	158	88.9	480	62
80	310	170	200	158	88.9	480	62
80I	310	214	200	173	108.5	480	82.4
100	350	214	220	173	108.5	480	82.4
100I	350	277*	220	190	134.6	480	100
150	480	307*	285	190	134.6	480	100

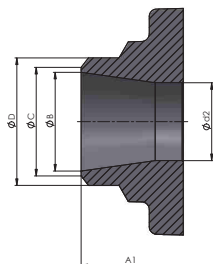
* SW and threaded not applicable

CONNECTION SIZES

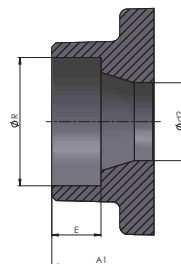
Semi-machined (PB)



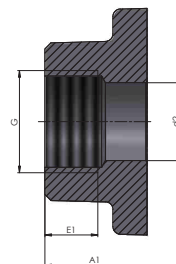
Butt Welding (BW)



Socket Welding (SW)



Threaded Gas (TG)

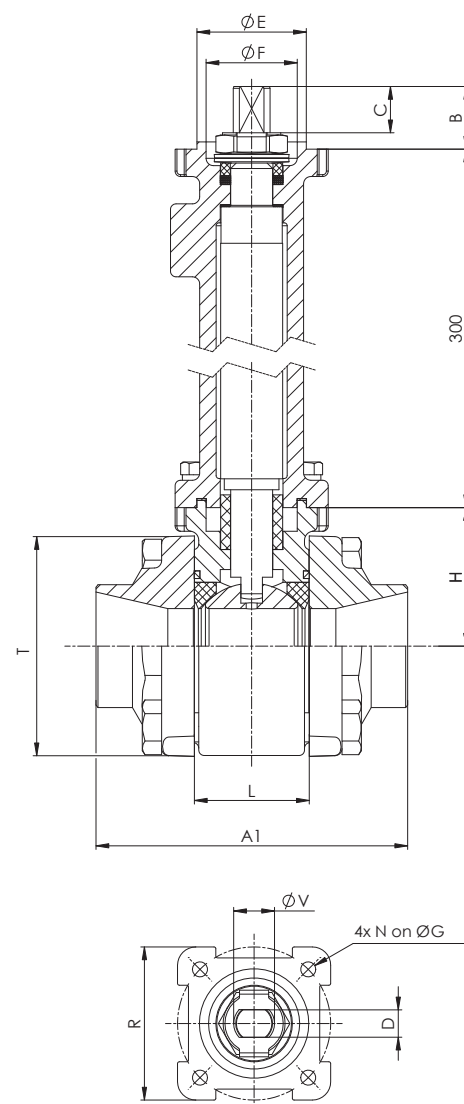


DN	Semi-machined			Butt Welding				Socket Welding			Threaded Gas		
	Ød2	H	A3	ØB Carbon steel	ØB Stain- less steel	ØC Carbon steel	ØC Stain- less steel	ØD	ØR	E	G	E1	A1
8I	11,1	27,5	70,4	9,5	9,5	12,1	12,1	13,5	14,2	10	1/4"	13,5	65
10I	11,1	27,5	70,4	13,2	13,2	14,8	14,8	17,2	17,7	10	3/8"	13,5	65
15	11,1	27,5	70,4	17,3	17,3	18,9	18,9	21,3	21,8	10	1/2"	15	65
15I	14,2	32,5	70,4	17,3	17,3	19,9	19,9	21,3	21,8	10	1/2"	16,5	72,5
20	14,2	32,5	77,7	22,3	22,9	24,9	25,5	26,9	27,2	13	3/4"	17,5	72,5
20I	20,6	41,5	77,7	22,3	22,9	24,9	25,5	26,9	27,2	13	3/4"	17,5	85,4
25	20,6	41,5	90	28,5	29,7	31,1	32,7	33,7	34,2	13	1"	20,5	85,4
25I	25,4	51,5	90	28,5	29,7	30,5	31,3	33,7	34,2	13	1"	20,5	99,3
32	25,4	51,5	106,7	37,2	38,4	39,8	40	42,4	42,7	13	1 1/4"	20,5	99,3
32I	31,7	56	106,7	37,2	38,4	39,8	41	42,4	42,7	13	1 1/4"	20,5	110,4
40	31,7	56	96,8	43,1	44,3	45,1	45,9	48,3	48,8	13	1 1/2"	24,5	110,4
40I	38	69	96,8	43,1	44,3	45,1	45,9	48,3	48,8	13	1 1/2"	24,5	126,3
50	38	69	131,9	54,5	56,3	56,5	57,9	60,3	61,1	17,5	2"	25,5	126,3
50I	50,8	86	131,9	54,5	56,3	57,1	58,9	60,3	61,1	17,5	2"	25,7	142,6
65	50,8	86	157,4	70,3	71,5	72,9	74,1	76,1	77	19	2 1/2"	30,2	142,6
65I	57,15	103	157,4	70,3	71,5	72,9	74,1	76,1	77	19	2 1/2"	30,2	169,5
80	57,15	103	197,9	82,5	84,3	85,1	86,9	88,9	90	21	3"	33	169,5
80I	82,4	129	197,9	82,5	84,3	85,1	86,9	88,9	90	21	3"	33,3	214
100	82,4	129	223,5	107,1	109,1	109,7	111,7	114,3	115,5	24	4"	39,3	214
100I	100	169,5	223,5	107,1	109,1	109,7	111,7	114,3	115,5	24	-	-	307
150	100	169,5	318,6	159,3	163,1	161,9	165,1	168,3	-	-	-	-	307

CRYOGENIC VERSION

Model characteristics:

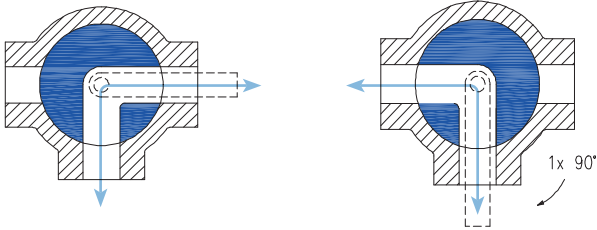
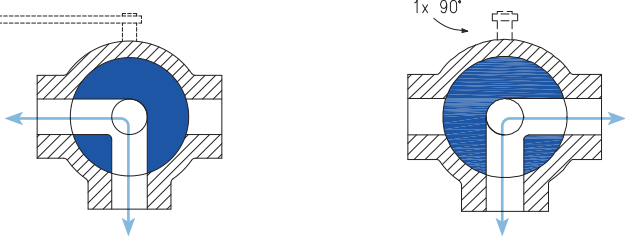
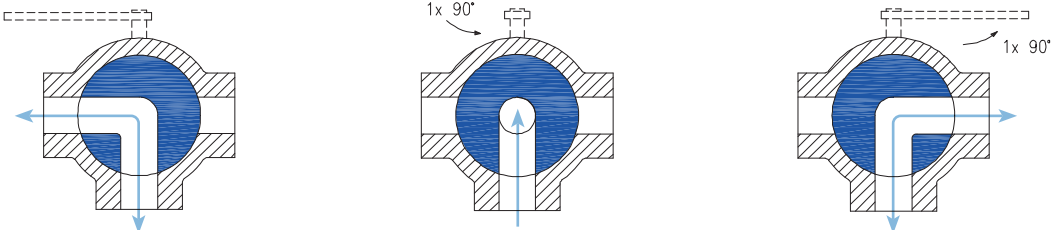
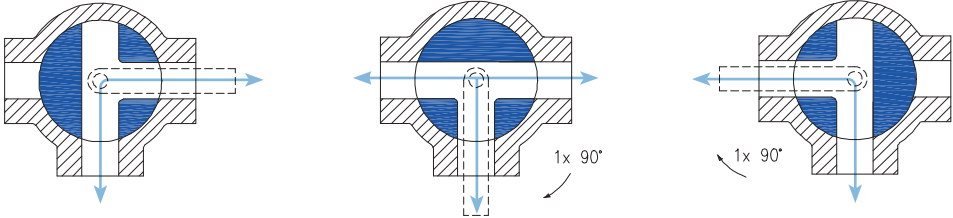
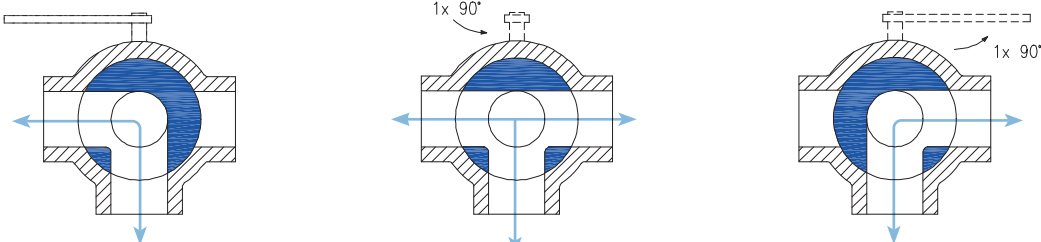
- Full or reduced port
- Stainless steel
- Integrated ISO 511 top flange for easy automation
- Large range of seat materials
- Temperature range: -196 °C to +80 °C
- Pressure vent hole above ball
- Seats specifically machined for cryogenic use
- Shaft extension must be mounted vertically
- Pressure: maximum 100 bar according to valve diameter and seat material
- Valve design compliant with NF EN1626 standard
- Valves degreased in compliance with NF EN ISO 23208 standard
- Valves individually packed in polythene bags



DN	ISO 5211	L	A1 Serie 1	B	C	D	ØE	ØF	ØG	N	H	T	R	ØV
15	F03	20,4	65	11,1	7	5,4	25	22	36	M5	29,8	43	36	9,5
20	F03	24,5	72,5	11,1	7	5,4	25	22	36	M5	32,2	52	36	9,5
25	F04	31,4	85,4	17	12	7,5	30	25	42	M5	38	60	42	11,1
32	F04	41,3	99,3	17	12	7,5	30	25	42	M5	36	69	42	11,1
40	F05	48,4	110,4	28,8	16,5	8,9	35	30	50	M6	42	79	53	14,3
50	F05	56,3	126,3	28,8	16,5	8,9	35	30	50	M6	46,5	89	53	14,3
65	F07	71,4	142,6	35,4	17	8,9	55	45	70	M8	70	107	70	14,3
80	F07	88,9	169,5	54,5	17	19	55	45	70	M8	99	128	70	22,5
100	F10	108,5	214	54,5	17	19	64	70	102	M10	114	168	95	22,5
150	F10	134,6	307	54,5	17	19	64	70	102	M10	128	109	95	22,5

Note: All sizes refer to reduced port valves. See larger diameter for full port valves.

3-WAY VERSION

Ball with L bore Central horizontal connection Rotation 90°	
Ball with L bore Central vertical connection Rotation 90°	
Ball with L bore Central vertical connection Rotation 180°	
Ball with T bore Central horizontal connection Rotation 180°	
Ball with T bore Central horizontal connection Rotation 180°	

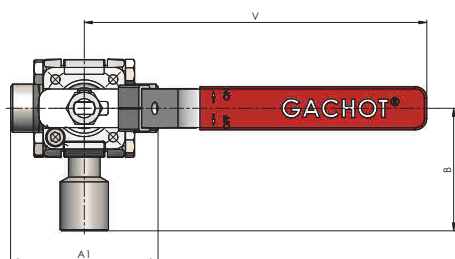
Model characteristics

- Maximum differential pressure = 6 bar
- Carbon steel or stainless steel
- Ball central connection without seat. The T bore enables fluid to flow around the ball and be discharged via the central connection. The third way is not watertight, so input is here.

3-WAY VERSION

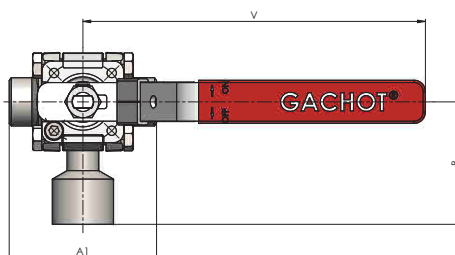
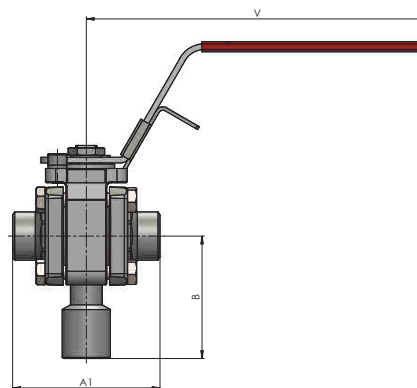
A few configuration examples

Horizontal connection (view from above)

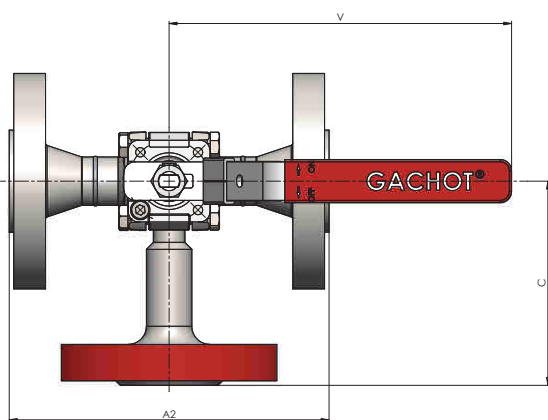
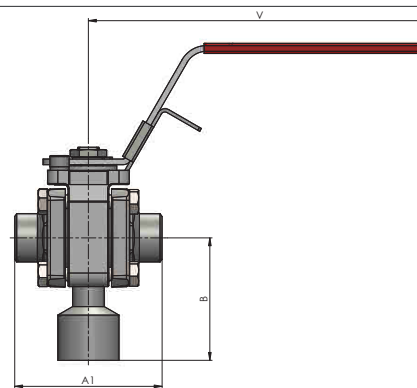


Butt Weld side
and central
connection

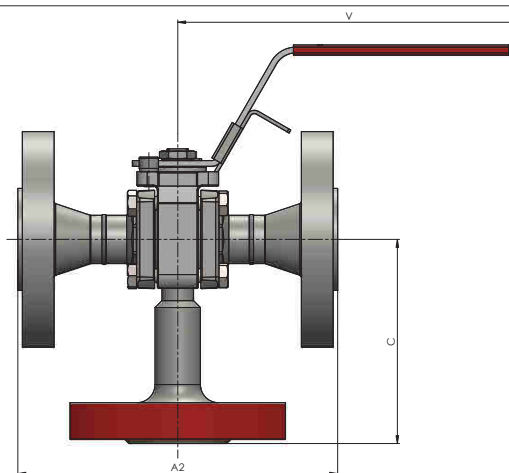
Vertical connection (view from above)



Socket
Weld side
and central
connection



Flanged side
and central
connection



DN	A1	A2	B	C	V
15	65	130	54	90	150
20	72,5	150	64	95	150
25	85,4	160	64	100	150
32	99,3	180	75	105	150
40	110,4	200	80	115	200
50	126,3	230	90	125	200
65	142,6	290	115	145	250
80	169,5	310	175	155	480
100	213,9	350	210	175	480
150	307	480	-	240	480

Notes

- All sizes: See reduced port valves. See greater diameter for full port valves.

VALVE WITH PNEUMATIC ACTUATOR

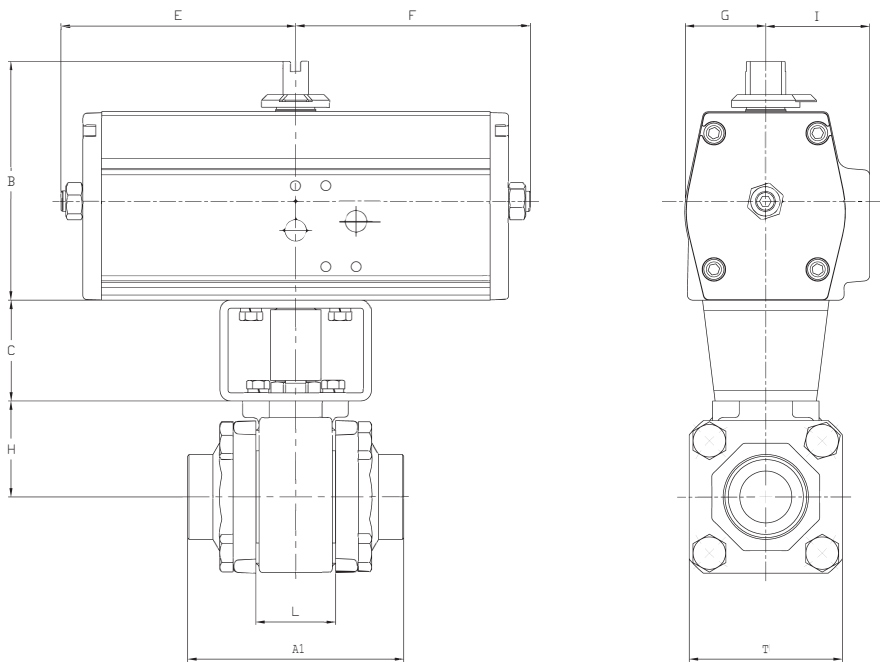
Ball valve 3-Piece with ISO base.
Butt Weld, Socket Weld, Threaded and
flanges version.

Features

- Double acting or single acting,
- Supply pressure of 4 to 6 bar,

Options

- Manual control,
- Open/close contact,
- ATEX version,
- Other options on request.



DN	ISO 5211	L	A1	B	C	E	F	G	H	I	T	Actuators
15	F03	20,4	65	95	60	45	98	32	29,8	41	43	DR 10-0
20	F03	24,5	72,5	95	60	45	98	32	32,2	41	52	DR 10-0
25	F04	31,4	85,4	95	60	98	98	32	38	41	60	DR 20-0
32	F04	41,3	99,3	95	60	98	98	32	36	41	69	DR 20-0
40	F05	48,4	110,4	130	60	65	135	49	42	55	79	DR 30-0
50	F05	56,3	126,3	130	60	65	135	49	46,5	55	89	DR 30-0
65	F07	71,4	142,6	175	60	90	190	69	70	75	107	DR 50-0
80	F07	88,9	169,5	175	60	190	190	69	99	75	128	DR 60-0
100	F10	108,5	213,9	175	60	190	190	69	114	75	168	DR 60-0
150	F10	134,6	307	175	60	190	190	69	128	75	109	DR 60-0

Nota : Other pneumatic actuators have the following designs:
standard valve with PTFE seat, working pressure of 40 bar,
double-acting pneumatic air supply of 5 bar.

Other designs on request.

All sizes refer to reduced port valves. See larger diameter for full port valves.

SAPAG VALVES has been developing and manufacturing for more than 90 years, a wide range of high quality and high performance valves dedicated to the industry, including butterfly valves (elastomer, PTFE or metal seat), ball valves (carbon steel, stainless steel, others on request), the MONOVAR®, control valve, the CLASAR®, the ultimate check valve, gate valves, and needle valves.

Our products are used in water, gas and other fluid transport networks in fields as diverse as petrochemicals, shipbuilding and process industries in general.

Today the company has more than 100 employees. In addition to the machining,

assembly and testing unit for industrial valves, the site includes all the administrative, technical and commercial departments. This proximity enables SAPAG VALVES to ensure responsiveness, follow-up and compliance with our clients' requirements.

Our products are present in more than 70 countries around the world and our production is regularly exported to all 6 continents.

Our Quality, Safety and Environmental Management System is certified by the following: ISO 9001:

ISO **ISO** **ISO**
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