



V16

Gachot® Ball Valve

STAINLESS STEEL



GACHOT®

CONTENTS

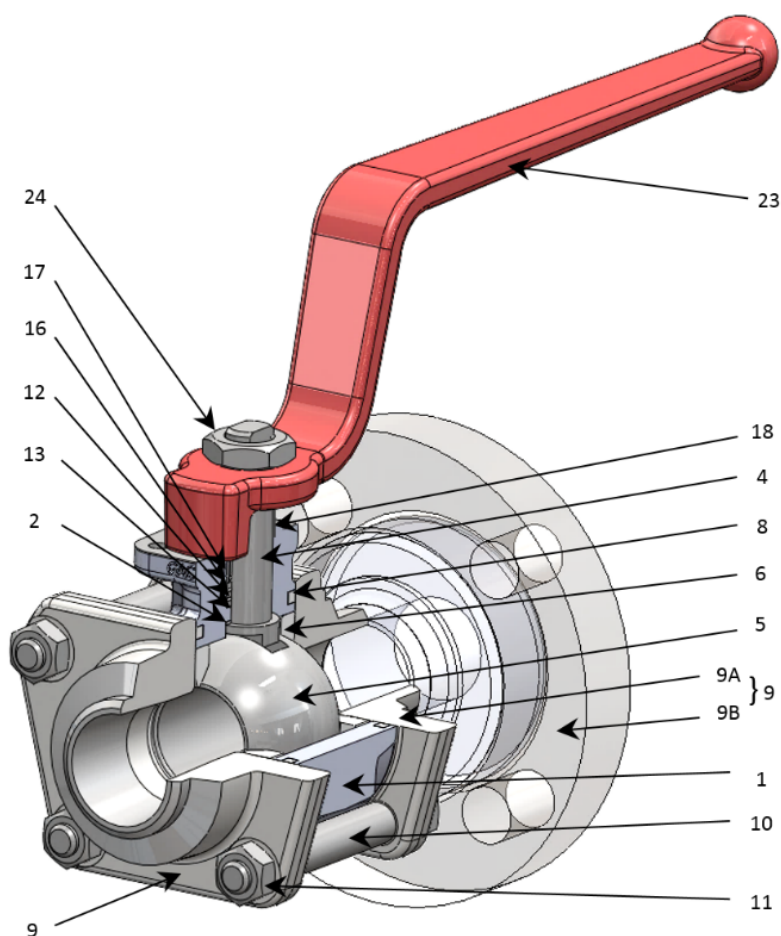
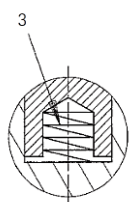
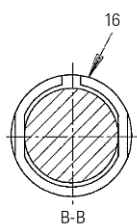
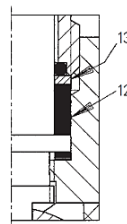
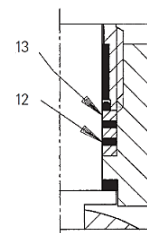
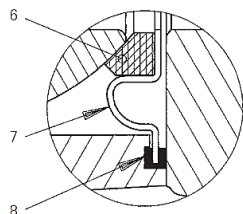
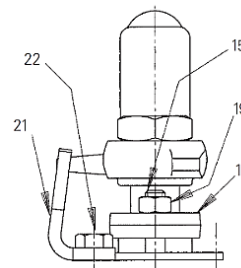
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V16 STAINLESS STEEL BALL VALVE FEATURES

Performance	The maximum pressures and temperatures depend on the pressure / temperature ratio and type of fluid.	
	Temperature, °C	-196 °C -196 °C 305 °C 700 °C
	Pressure, bar	0 100 220 bar
	Diameter, mm	DN15 DN200 * DN250
	Diameter, mm	DN8 DN150 ** DN250
*Reduced port / ** Full port		
Connections	Butt Welding (BW), Socket Welding (SW), threaded BSPP (gas) or NPT and screwed flanges. Face to face size according to ISO 5752 series 1, EN 558-1, special connections on request.	
Applications	- Valve compliant with heavy duty working conditions using corrosive chemicals. - Liquid, steam, gas and oil for process circuit and utilities (operating fluid). - Whenever safety and reliability are critically important - Isolating and flow control valve.	
Cable gland	- Retightenable screwed or bolted cable gland. - High-performance, maintenance-free and TA-LUFT certified cable gland on request.	
Top flange	ISO 5211 top flange, enabling you to fit a quarter-turn actuator without removing valve.	
Body	Forged body and flange.	
Seat	Wide range of seats available (PTFE, TFM, PVG, PEEK, etc.).	
Tightness	Tightness compliant with rate A of ISO 5208 standard.	
Modular system	"V16" modular system: check valve, filter, sight.	
Design standard	These products were designed, produced and tested under the control of an ISO 9001 Quality Assurance system, compliant with the requirements of module H (categories I, II and III) of Annex 3 of Directive 2014/68/EU relating to pressure equipment. Also guaranteed: compliance with the essential health and safety requirements relating to the design and production of equipment intended for use in potentially explosive atmospheres according to Directive ATEX 94/9/EC. - Designed in compliance with international and European standards. - Certificate 3.1 according to EN10204 available on request during order. - Antistatic device compliant with ISO 7121 and BS-5351 standards.	
Ball	Ball punched under the stem in order to remove any risk of body overpressure ("boiler effect") when the valve is open.	
Stem	Guided, blow-out proof stem.	
Options	Numerous options and special applications (3 ways, tank bottom, cryogenic application version, casing seat, high-temperature design).	
Approvals	Various approvals and certifications.	

PARTS LIST: DN15 - DN65 (DN8I - DN50I)

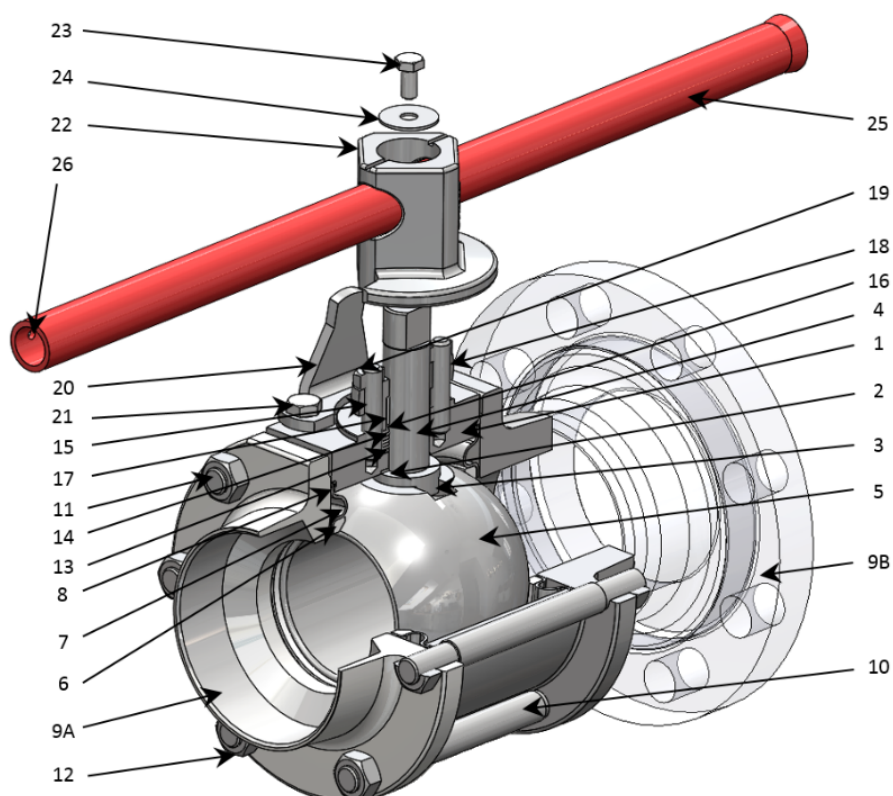
**Antistatic device**DN65
DN50IDN15 - DN65
DN8I - DN50I**Non-ejectable cable gland and stem**DN15 - DN25
DN8I - DN20IDN32 - DN65
DN25I - DN50I**Seat support for
DN65 (DN50I)****Bolted cable gland
DN65 (DN50I)**

PARTS LIST: DN15 - DN65 (DN8I - DN50I)

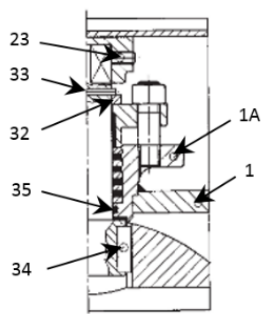
	Qty	Name	DN Full port	DN Reduced port	Material	
1	1	Body			Stainless steel	ASTM A182-F 316L (forged)
2	1	Friction washer			PTFE	
3	1	Antistatic spring	50	65	Stainless steel	AISI 316
4	1	Drive shaft			Stainless steel	AISI 316L
5	1	Ball			Stainless steel	AISI 316L
6	2	Seat	8 → 40	15 → 50	TFM 4105	
			50	65	TFM 1600	
7	2	Seat support	50	65	Stainless steel	AISI 316L
8	2	Body gasket			PTFE	
9 A	2	Flange			Stainless steel	ASTM A182-F 316L (forged)
9 B	2	Screwed flange (for flange version)			Steel	A350 LF2 / P295GH
10	4	Tie rod			Stainless steel	A2-70 ISO 3506
11	8	Tie rod nut			Stainless steel	AISI 304
12	1-2*	Packing flexible washer			PTFE	
13	1-3*	Packing metal washer			Stainless steel	AISI 316L
15	2	Gland stud	50	65	Stainless steel	AISI 316L
16	1	Elastic ring			Stainless steel	AISI 316
17	1	Gland ring	25 → 50	32 → 65	PTFE	
18	1	Gland			Stainless steel	AISI 316L
19	2	Gland nut	50	65	Stainless steel	AISI 304
20	1	Stop screw	8 → 40	15 → 50	Stainless steel	AISI 304
21	1	Bracket stop	50	65	Stainless steel	AISI 304
22	2	Stop screw	50	65	Stainless steel	AISI 304
23	1	Lever			Malleable cast iron	
24	1	Lever nut			Stainless steel	ANSI 304

*Quantity according to DN.

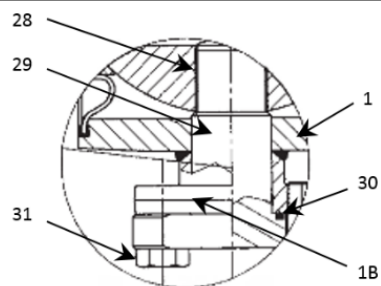
PARTS LIST: DN65 - DN200 (DN50I - 150I)



**Drive shaft, guide and drive
DN200 (DN150I)**



**Lower guide
DN200 (DN150I)**



PARTS LIST: DN65 - DN200 (DN50I - 150I)

	Qty	Name	DN Full port	DN Reduced port	Material	
1	1	Body			Stainless steel	ASTM A182-F 316L (forged)
1A	1	Gland support	150	200	Stainless steel	AISI 316L
1B	1	Ball guide support	150	200	Stainless steel	AISI 316L
2	1	Friction washer			PTFE	
3	1	Antistatic spring	65 → 100	80 → 150	Stainless steel	AISI 316
4	1	Drive shaft			Stainless steel	AISI 316L
5	1	Ball			Stainless steel	AISI 316L
6	2	Seat			TFM	
7	2	Seat support			Stainless steel	AISI 316L
8	2	Body gasket			PTFE	
9A	2	Flange			Stainless steel	ASTM A 182-F 316L (forged)
9B	2	Screwed flange (for flange version)			Steel	A350 LF2 / P295GH
10	4	Shoulder bolt			Stainless steel	A2-70 ISO 3506
11	2-4*	Smooth tie rod			Stainless steel	A2-70 ISO 3506
12	12-16*	Tie rod nut			Stainless steel	AISI 304
13	3-4*	Packing flexible washer			PTFE	
14	4-5*	Packing metal washer			Stainless steel	AISI 316L
15	2	Gland stud			Stainless steel	AISI 316L
16	1	Elastic ring	65 → 100	80 → 150	Stainless steel	AISI 316
17	1	Gland ring			PTFE	
18	1	Gland			Stainless steel	AISI 316L
19	2	Gland nut			Stainless steel	AISI 304
20	1	Bracket stop	65 → 150	80 → 200	Stainless steel	AISI 304
21	2	Stop screw	65 → 150	80 → 200	Stainless steel	AISI 304
22	1	Lever hub			Malleable cast iron	
23	1	Hub screw			Cadmium-plated steel	
24	1	Flat washer	65 → 100	80 → 150	Cadmium-plated steel	
25	1	Lever			Steel	
26	1	Screw	65 → 100	80 → 150	Cadmium-plated steel	
28	2	Thrust washer	150	200	Stainless steel	AISI 316L
29	1	Ball guide ring	150	200	PTFE	
30	1	Ball guide	150	200	Stainless steel	AISI 316L
31	1	Seal	150	200	PTFE	
32	2	Screw	150	200	Stainless steel	AISI 304
33	1	Washer	150	200	Stainless steel	AISI 316L
34	1	Pin	150	200	Stainless steel	AISI 302/304
35	1	Key	150	200	Stainless steel	AISI 316L
36	1	O-ring	150	200	Viton	

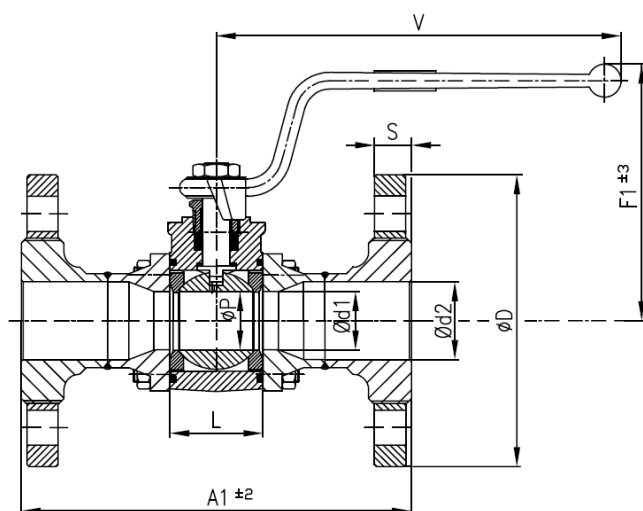
*Quantity according to DN.

ACTUATOR FLANGE DIMENSIONS

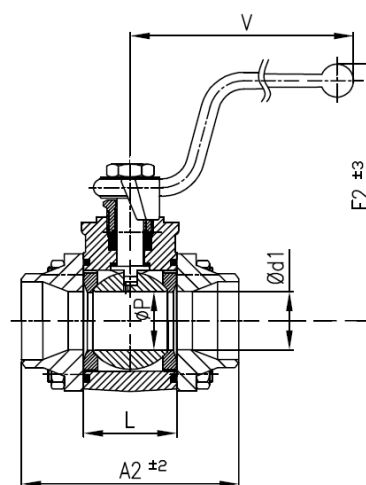
DN15 - DN65 (DN8I - DN50I) DN80 - DN150 (DN65I - DN100I) DN200 (DN150I)																			
DN	ISO	N	G	A	D	De	E	F	H	H1	I	K	M	R	T	U	V	W	X
8I	F03	M6	36	57	7		10,1	25	28,5		38,5		30,5	36,5	32,8	17,5	M10		17
10I	F03	M6	36	57	7		10,1	25	28,5		38,5		30,5	36,5	32,8	17,5	M10		17
12I	F03	M6	36	57	7		10,1	25	28,5		38,5		30,5	36,5	32,8	17,5	M10		17
15	F03	M6	36	57	7		10,1	25	28,5		38,5		30,5	36,5	32,8	17,5	M10		17
15I	F03	M6	36	59,5	7		10,1	25	31		41		33	36,5	38,8	17,5	M10		17
20	F03	M6	36	59,5	7		10,1	25	31		41		33	36,5	38,8	17,5	M10		17
20I	F04	M6	42	69,5	7		12,1	30	38,5		48,5		40,5	42	48,6	18	M12		19
25	F04	M6	42	69,5	7		12,1	30	38,5		48,5		40,5	42	48,6	18	M12		19
25I	F04	M6	42	72	7		12,1	30	44		54,5		46	42	59,2	16	M12		19
32	F04	M6	42	72	7		12,1	30	44		54,5		46	42	59,2	16	M12		19
32I	F05	M6	50	81	7		13,8	35	50,5		62		53,5	50	69	17	M14		24
40	F05	M6	50	81	7		13,8	35	50,5		62		53,5	50	69	17	M14		24
40I	F05	M6	50	96,5	7		15,8	35	63		75,5		66	50	82,8	20	M16		30
50	F05	M6	50	96,5	7		15,8	35	63		75,5		66	50	82,8	20	M16		30
50I	F07	M8	70	118,5	12		19,75	55	60,5		81		63,5	67	101,5	28	M20		
65	F07	M8	70	118,5	12		19,75	55	60,5		81		63,5	67	101,5	28	M20		
65I	F10	M10	102	145	16	135,5		70	82,5	90	112	121	85,5	99		20		50	
80	F10	M10	102	145	16	135,5		70	82,5	90	112	121	85,5	99		20		50	
80I	F10	M10	102	150	16	146,5		70	86	100	116	125	89	106,5		20		50	
100	F10	M10	102	150	16	146,5		70	86	100	116	125	89	106,5		20		50	
100I	F10	M10	102	170,5	16	190,5		70	108	115	137	146	111	133,5		20		75	
125	F10	M10	102	170,5	16	190,5		70	108	115	137	146	111	133,5		20		75	
150	F10	M10	102	170,5	16	190,5		70	108	115	137	146	111	133,5		20		75	
150I	F12	M12	125	233	26	275		85	165	186	194	208	168	150		25		65	
200	F12	M12	125	233	26	275		85	165	186	194	208	168	150		25		65	

MAIN DIMENSIONS: DN15 - DN65 (DN8I - DN50I)

FLANGED



BW - SW - THREADED



DN	A1	A2	d1	d2	D	F1	F2	L	P	S	V	Weight (Kg) Flanges	Weight (Kg) BW
8I		65	8			109	77	22	11		160		0,9
10I/12I	130	65	11	11	90	109	77	22	11	18	160	1,8	0,9
15	130	65	11	16	95	109	77	22	11	18	160	2,5	0,9
15I	130	70	14	16	95	112	80	25	14	20	160	2,9	1,2
20	150	70	14	20	105	112	80	25	14	20	160	3,5	1,3
20I	150	85	18	20	105	123	123	31	17	20	210	4,2	2
25	160	85	18	25	115	123	123	31	17	20	210	4,6	2,1
25I	160	100	25	25	115	127	127	41	25	20	210	5	2,8
32	180	100	25	30	140	127	127	41	25	20	210	7	2,8
32I	180	110	30	30	140	132	132	48	30	22	210	7,1	4
40	200	110	30	40	150	132	132	48	30	22	210	9,4	4
40I	200	125	40	40	150	140	140	60	40	22	260	10	5,8
50	230	125	40	51	165	140	140	60	40	22	260	12,7	6
50I	230	150	50	51	165	161	161	75	50	22	315	14	11,5
65	290	150	50	65	185	161	161	75	50	22	315	16,9	11,5

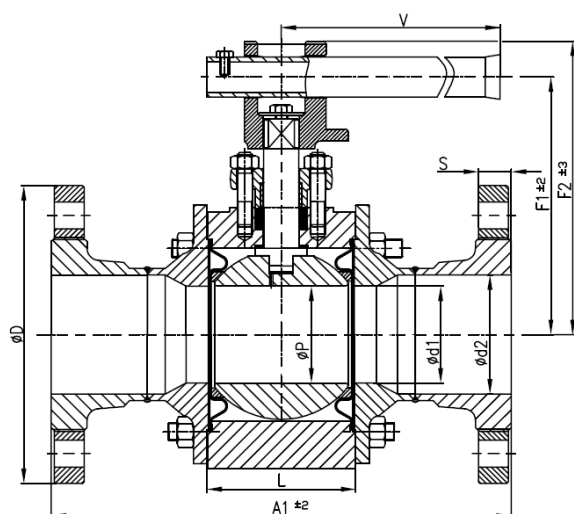
NOTE

Standard: screwed carbon steel flanges PN 16 face Ra 6.3.

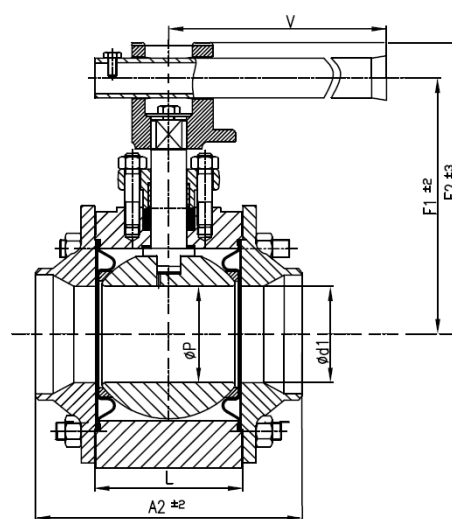
On request: screwed carbon steel flanges PN 20 (ANSI 150, ANSI 300, PN 25, PN 40) or screwed stainless steel flanges PN 16 to PN 40, ANSI 150, ANSI 300.

MAIN DIMENSIONS: DN80 - DN200 (DN65I - DN150I)

FLANGED



BW - SW - THREADED



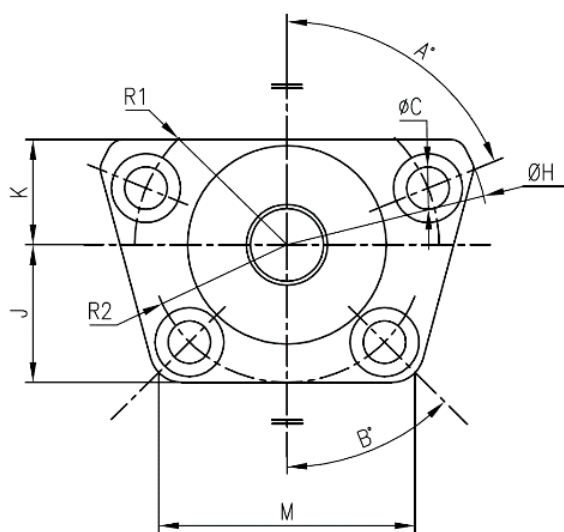
DN	A1	A2	D	d1	d2	F1	F2	L	P	S	V	Weight (Kg) Flanges	Weight (Kg) BW
65I	290	180	185	65	65	173	197	100	65	22	500	26	21
80	310	180	200	65	80	173	197	100	65	23	500	30,6	23
80I	310	210	200	80	80	178	202	107,5	76	23	500	35,1	24
100	350	210	220	80	100	178	202	107,5	76	25	500	37	25
100I	350	244	220	100	100	199	223	134,5	101	25	500	50,2	48
125	400	244	250	100	125	199	223	134,5	101	25	500	55,8	53
150	480	244	285	100	150	199	223	134,5	101	25	500	58,5	53
150I	480	419	285	150	150	253	287	193	150	25	1170		
200	600	419	340	150	200	253	287	193	150	26	1170		100

NOTE

Standard: screwed carbon steel flanges PN 16 face Ra 6.3.

On request: screwed carbon steel flanges ANSI 150, ANSI 300, PN 25, PN 40 or screwed stainless steel flanges PN 16 to PN 40, ANSI 150, ANSI 300.

V-TYPE FLANGE MAIN DIMENSIONS: DN15 - DN65 (DN8I - DN50I)

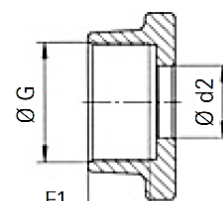
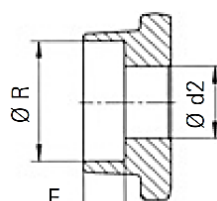
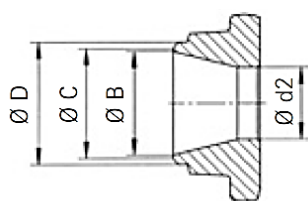
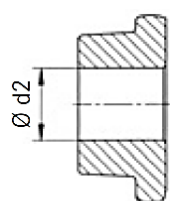


DN	A°	R1	B°	R2	C	H	M	J	K
8I	60	24,7	45	20,2	6,5	64	38	21,5	18,5
10I	60	24,7	45	20,2	6,5	64	38	21,5	18,5
12I	60	24,7	45	20,2	6,5	64	38	21,5	18,5
15	60	24,7	45	20,2	6,5	64	38	21,5	18,5
15I	60	27,6	45	23,3	6,5	73	44	23,5	20,5
20	60	27,6	45	23,3	6,5	73	44	23,5	20,5
20I	60	35	45	29,5	8,5	86	55	30	25,5
25	60	35	45	29,5	8,5	86	55	30	25,5
25I	62	39,9	45	34,9	8,5	96	63	34	31
32	62	39,9	45	34,9	8,5	96	63	34	31
32I	60	47	45	39	8,5	111	68	36	34,5
40	60	47	45	39	8,5	111	68	36	34,5
40I	62	54,8	45	47,8	10,5	131	83	44	42,5
50	62	54,8	45	47,8	10,5	131	83	44	42,5
50I	55	71,5	45	58	12,5	166	102	53	54,5
65	55	71,5	45	58	12,5	166	102	53	54,5

NOTE

V-type flanges enable quick and easy maintenance.

CONNECTIONS AND CHARACTERISTICS



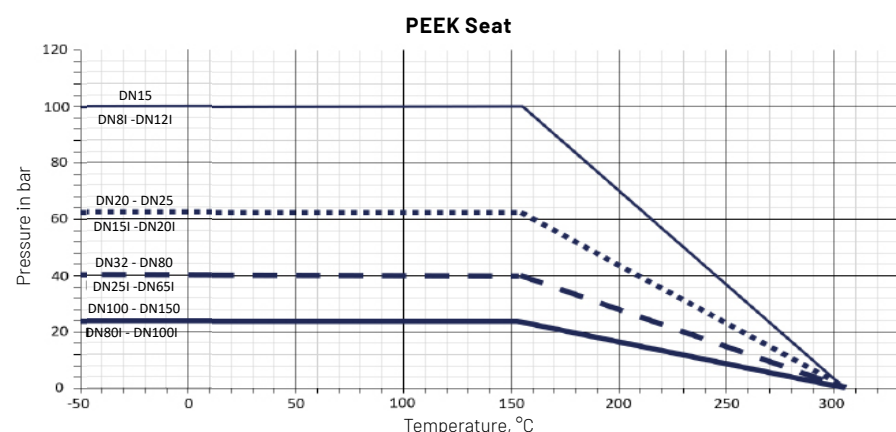
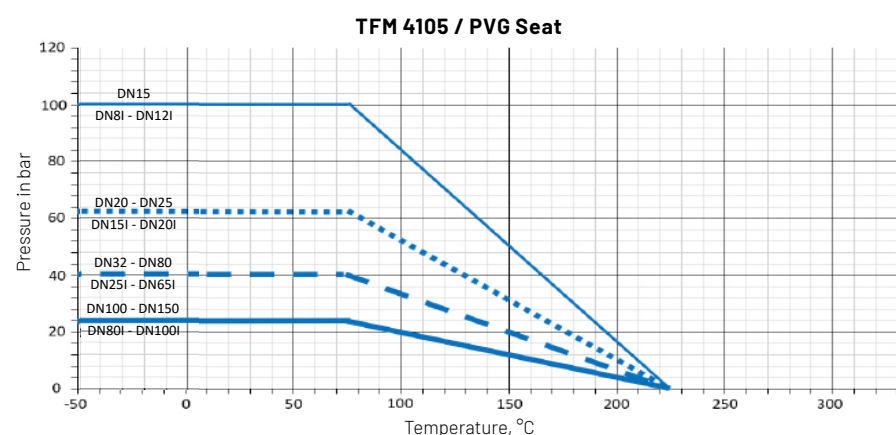
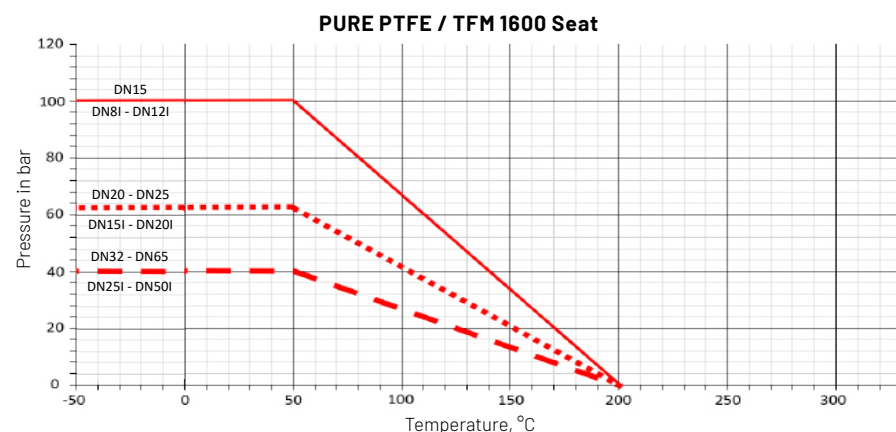
	Semi-machined	Butt Welding (BW)			Socket Welding (SW)		Threaded			
Type							Gaz		NPT	
DN	d2	B	C	D	E	R	G	E1	G	E1
8I	8	8	10	13,5	9,5	13,7	1/4"	11	1/4"	10,5
10I	11						3/8"	11,5	3/8"	10,5
12I	11	11	13,5	17,2	9,5	17,5	3/8"	11,5	3/8"	10,5
15	11	16	17	21,3	9,5	21,6	1/2"	15	1/2"	13,5
15I	14	16	17	21,3	9,5	21,6	1/2"	15	1/2"	13,5
20	14	21,6	23	26,9	11	27,2	3/4"	16,5	3/4"	14
20I	18	21,6	23	26,9	11	27,2	3/4"	16,5	3/4"	14
25	18	27,2	30	33,7	12,5	34	1"	19	1"	17,5
25I	25	27,2	30	33,7	12,5	34	1"	19	1"	17,5
32	25	35,9	39	42,4	14,5	42,8	1 1/4"	21,5	1 1/4"	18
32I	30	35,9	39	42,4	14,5	42,8	1 1/4"	21,5	1 1/4"	18
40	30	41,8	45	48,3	16	48,8	1 1/2"	21,5	1 1/2"	18,5
40I	40	41,8	45	48,3	16	48,8	1 1/2"	21,5	1 1/2"	18,5
50	40	53	56	60,3	17,5	60,8	2"	26	2"	19,5
50I	50	53	56	60,3	17,5	60,8	2"	26	2"	19,5
65	50	68,8	72	76,1	19	76,6	2 1/2"	30,5	2 1/2"	29
65I	65	68,8	72	76,1	19	76,6	2 1/2"	30,5	2 1/2"	29
80	65	82,5	84,5	88,9	20,5	89,5	3"	33,5	3"	30,5
80I	80	82,5	84,5	88,9	20,5	89,5	3"	33,5	3"	30,5
100	80	105,3	107,5	114,3	20,5	114,9	4"	39,5	4"	33
100I	100	105,3	107,5	114,3	20,5	114,9	4"	39,5	4"	33
125	100	131,7	134	139,7	20,5	140,3				
150	100	159,3	161,5	168,3	20,5	168,9				
150I	150	159,3	161,5	168,3	20,5	168,9				
200	150	207,2	209,5	219,1						

Notes

Tous les raccords sont obtenus par usinage des flasques semi-usinées.

Cette technique autorise une réponse rapide à la demande et la fourniture de nombreux types de raccords spéciaux

PRESSURE - TEMPERATURE CHARACTERISTICS



NOTE

Standard seats:

- 25% glass reinforced PTFE (TFM 4105 AD): DN81 - DN50 (DN40I).
- TFM 1600 SD: DN65 - 150 (DN50I - DN100I).

Optional seats:

- TFM / PVG (graphitic carbon-reinforced PTFE).
- PEEK (carbon reinforced).
- PTFE.

Other available seat materials (on request):

- PE (for cryogenic and other applications).
- Expanded graphite for high-temperature applications.

Other available seat designs (on request):

- Decompression seat: TFM and PVG.
- Casing seat (half shell).

CABLE GLAND AND BODY GASKET

- $T^{\circ} < 200^{\circ}\text{C}$
Cable gland: PTFE
Body gasket: PTFE
- $T^{\circ} \geq 200^{\circ}\text{C}$
Cable gland: Graphite
Body gasket: Stainless steel-reinforced PTFE ($\leq 250^{\circ}\text{C}$) or graphite with embedded body.
- Other packing or body seals available on request.

FLOW COEFFICIENT C_v/K_v

Threaded or weld end connection

DN	8I-15	12I	15I	20	20I	25	25I	32	32I	40	40I	50	50I	65	65I	80	80I	100	100I	150
C_v	11	23	29	19	32	25	94	52	112	81	245	166	455	212	795	545	1350	665	2350	1317
K_v	9	20	25	16	27	22	81	45	96	70	211	143	392	183	685	470	1164	573	2026	1135

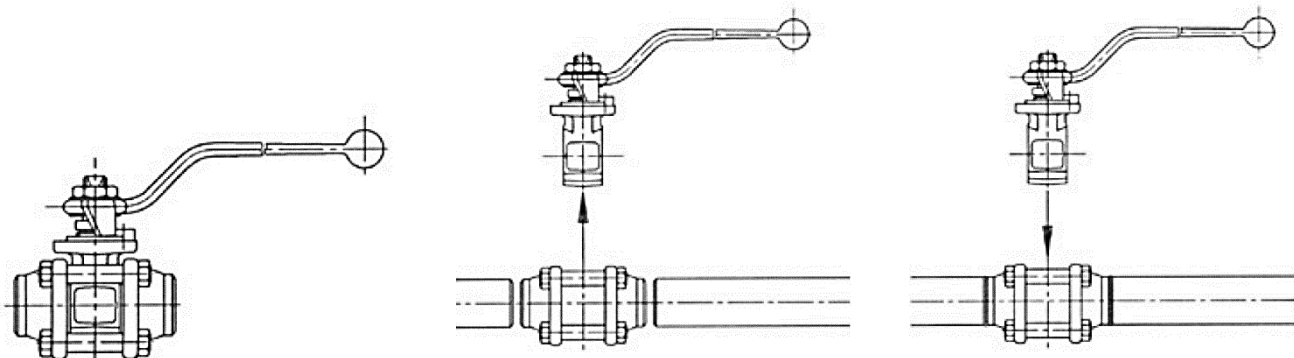
Flanged

DN	8I-15	15I	20	20I	25	25I	32	32I	40	40I	50	50I	65	65I	80	80I	100	100I	150
C_v	10	26	16	30	24	71	61	96	78	210	139	354	228	785	615	1560	810	2716	1412
K_v	8,6	22	14	26	21	61	52	83	67	181	120	305	196	677	530	1345	698	2340	1217

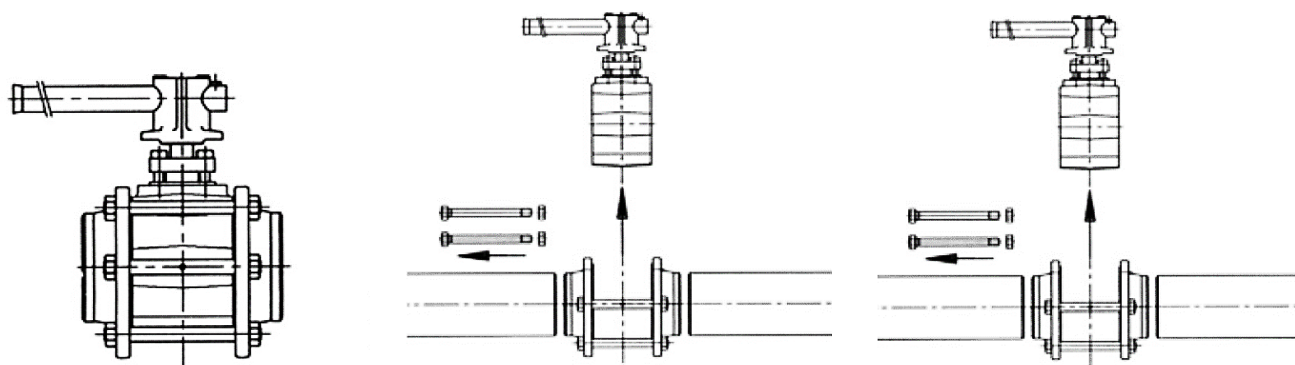
According to NF EN 1267

THREADED AND WELD END CONNECTION - INSTALLATION PROCEDURE

**DN15 - DN65
DN81 - DN501**



**DN80 - DN200
DN651 - DN1501**



The flange/tie rod/nut assemblies form a rigid cage enabling flange welding after removing the V16 body. This is done by loosening the tie rod nuts for DN81 to DN65 (DN501) or removing the two top non-shouldered bolts for DN80 (DN651) to DN150 (DN1001) or four top non-shouldered bolts for DN200 (DN1501).

Insert the body (in an open position) between flanges and retighten the tie rod nuts once welding is completed.

The V16 is ready for use!

STANDARD SEAT ACTUATING TORQUE

DN \ ΔP	Standard seat				Decompression seat				Max. allowable torque (Nm)
	7	16	25	50	7	16	25	50	
8I	8	9	12	16	8	9	12	16	45
15	8	9	12	16	8	9	12	16	45
15I	9	10	15	20	9	10	15	20	45
20	9	10	15	20	9	10	15	20	45
20I	10	12	16	22	10	12	16	20	66
25	10	12	16	22	10	12	16	20	66
25I	14	17	20	27	14	17	20	27	66
32	14	17	20	27	14	17	20	27	66
32I	20	25	30	40	20	25	30	40	94
40	20	25	30	40	20	25	30	40	94
40I	35	40	45	60	30	38	45	60	138
50	35	40	45	60	35	40	45	60	138
50I	40	50	65	100	35	45	65	100	309
65	40	50	65	100	35	45	65	100	309
65I	90	105	130		78	105	130		615
80	90	105	130		78	105	130		615
80I	105	130	160		95	130	160		615
100	105	130	160		95	130	160		615
100I	140	190	230		120	190	230		615
150	140	190	230		120	190	230		615

NOTE

Indicative torques measured in water at 20 °C, viscosity 1 cPo.

Other seats:

- TFM / carbon PTFE: +20% ;
- PEEK DN15 (DN8I) to DN40 (DN32I): +40%, DN50 (DN40I) to DN200 (DN150I): +30%.

Other cable gland: graphite: +10%.

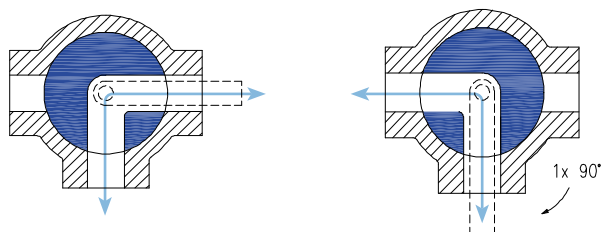
Torque without safety coefficient:

- Application 1: water, lubricating fluids, normal service, temperature < 120 °C. Add coefficient of 1.3.
- Application 2: gas, dry fluids, steam, oxygen, severe conditions, temperature > 120 °C. Add coefficient of 1.56.

3-WAY VERSION

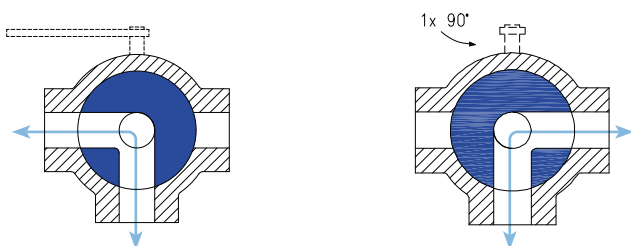
Ball with L bore

Central horizontal
connection Rotation
 90°
(LH 90)



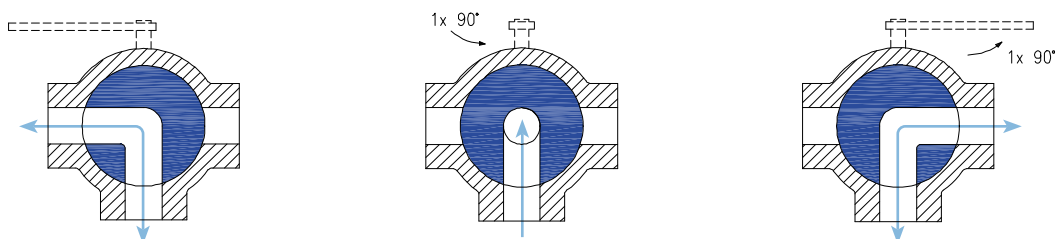
Ball with L bore

Central vertical
connection Rotation
 90°
(LV 90)



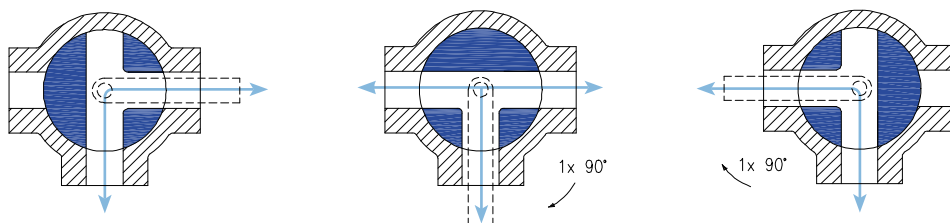
Ball with L bore

Central vertical
connection Rotation
 180°
(LV 180)



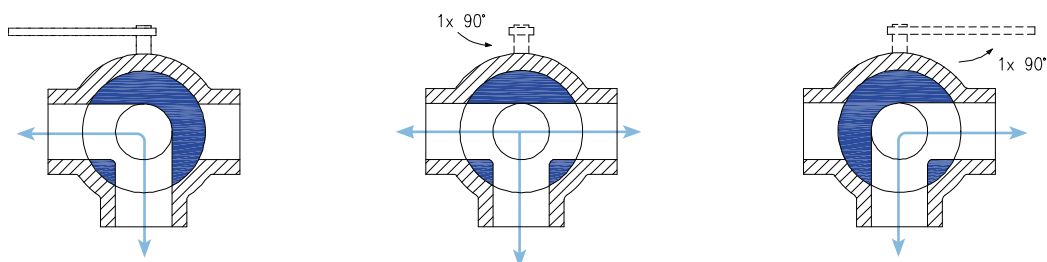
Ball with T bore

Central horizontal
connection Rotation
 180°
(LH 180)



Ball with T bore

Central vertical
connection Rotation
 180°
(LV 180)



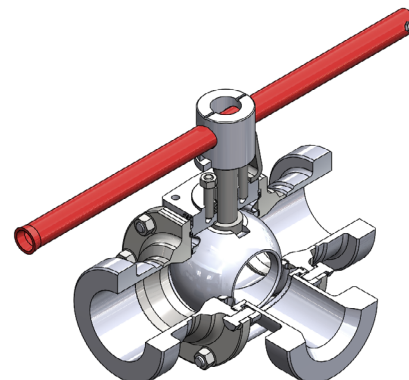
CONNECTIONS

- Flanged third way PN40 to DN50.
- Flanged third way PN16 for DN65 to 150.
- Two line ways: BW, SW, GAZ, NPT and flanged.

Ball central connection without seat.

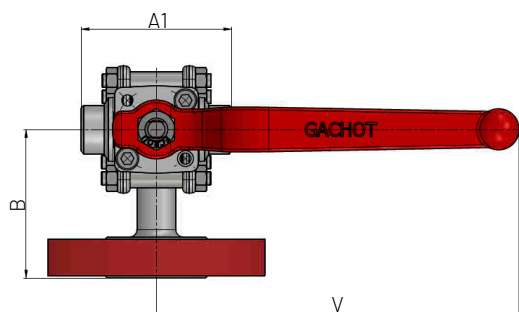
The T bore enables fluid to flow around the ball and be discharged via the central connection.

The third way is not sealed and supplied on this side.



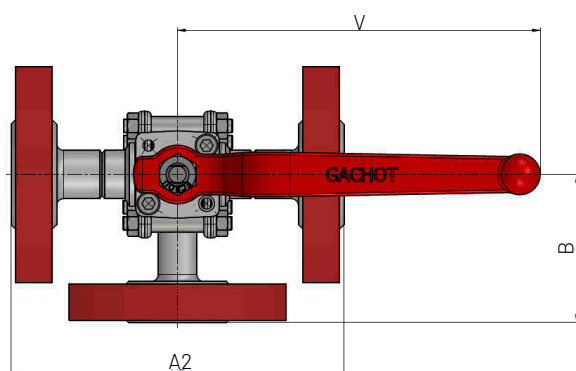
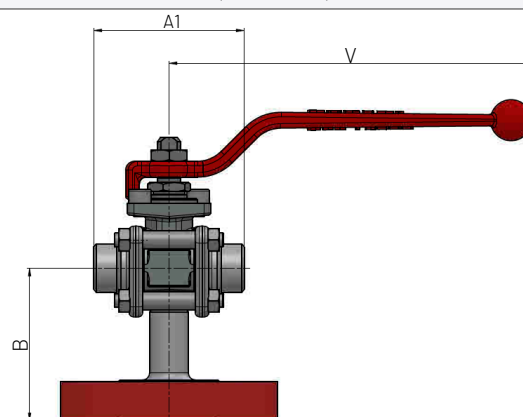
3-WAY VERSION

Horizontal connection
(view from above)

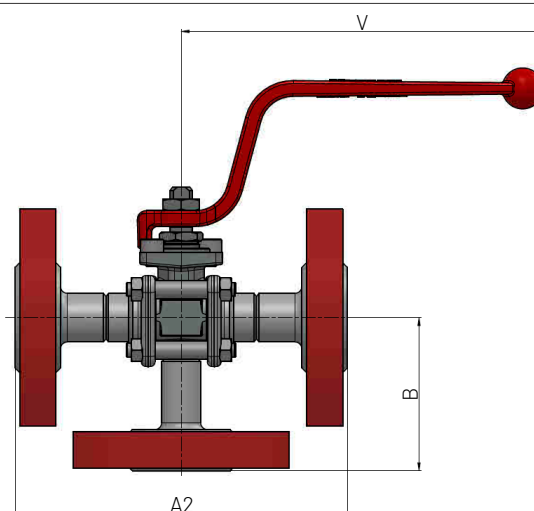


BW, SW
&
THREADED

Vertical connection
(front view)



FLANGED

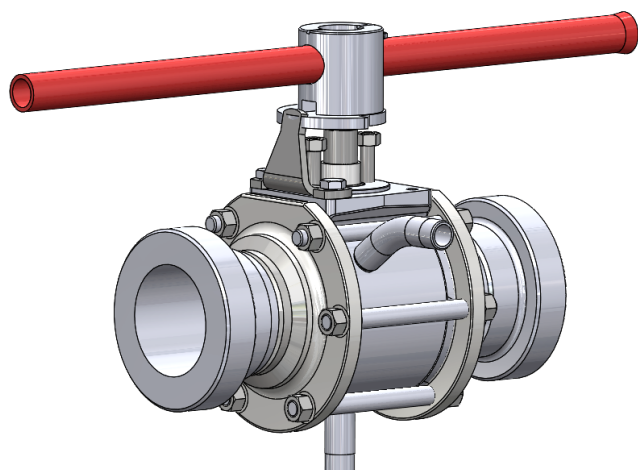


DN	A1	A2	B	V
15	65	130	65	160
20	70	150	75	160
25	85	160	80	210
32	100	180	90	210
40	110	200	100	210
50	125	230	115	260
65	150	290	145	315
80	180	310	155	510
100	210	350	175	510
125	240	400	200	510
150	240	480	240	510

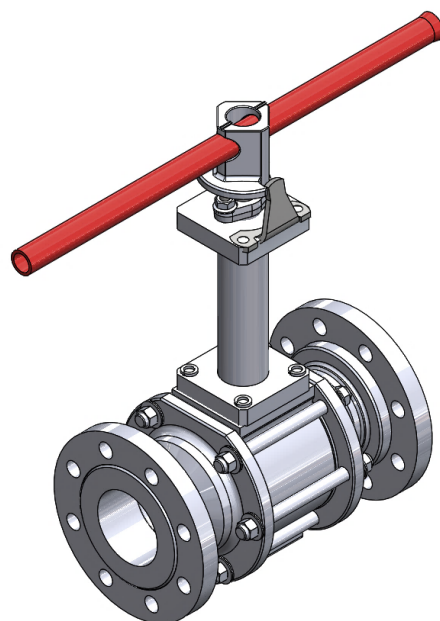
NOTE

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

V16 HEATING VERSION



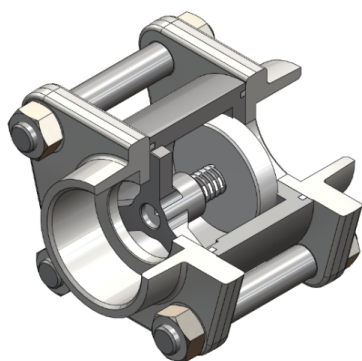
V16 CRYOGENIC VERSION



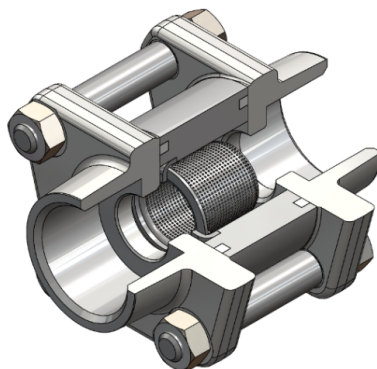
V16 MODULAR SYSTEM

The central part can be interchanged and the valve function can easily change

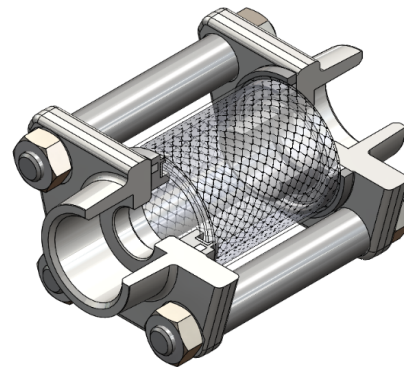
Check valve



Filter



Sight



OPTIONS

- Limit switch kit (case or box).
- Tank bottom V16.
- Other connections.
- Padlocking kit.
- Lever or wheel with or without extension housing.
- Some parts may be supplied in a different material.

Actuators

- Single or double-acting pneumatic actuators.
- Electric actuators.
- Actuators for special applications.

Control

- Accessory equipment (solenoid valve blocks, limit switch boxes).
- Pneumatic, electropneumatic and intelligent positioners.

SAPAG has been designing and manufacturing a wide range of high-quality and high-performance industrial valves for more than 90 years. These include butterfly valves (elastomer, PTFE or metal seats), ball valves (carbon steel, stainless steel, or others on request), MONOVAR® control valves, the ultimate CLASAR® check valve, as well as gate 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 **ISO** **ISO**
9001:2015 14001:2015 45001:2018



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