A Long Experience in Energy Equipment and one Goal:

The Customer's satisfaction.

VALVITALIA GROUP



Fully Welded Ball Valves Type 54 & 55

TGT tormene gas technology

VALVITALIA GROUP

VALVITALIA is an Italian Group of valves and other energy equipment manufacturers created to provide to the customers complete packages of products and services.
Italy historically has been the Country with the largest number of valves and other energy equipment manufacturers. Also, Italy has provided to the oil & gas companies excellent engineering services.
Experienced management, quality, performance, availability of large inventory and full dedication to the customer's satisfaction differentiate VALVITALIA from the competition.
VALVITALIA can provide discrete products and/or complete packages, including actuators, gear operators, pre-assembled skids for gas regulating e metering stations. Among the pre and post sales services, VALVITALIA offers the refurbishment of any type of valve. The availability of stocks represents an additional service to the customers, very difficult to find elsewhere.



Offer the best product at a competitive price and to respect agreed delivery times is our commitment.



TECHNICAL FEATURES

Type 59/58

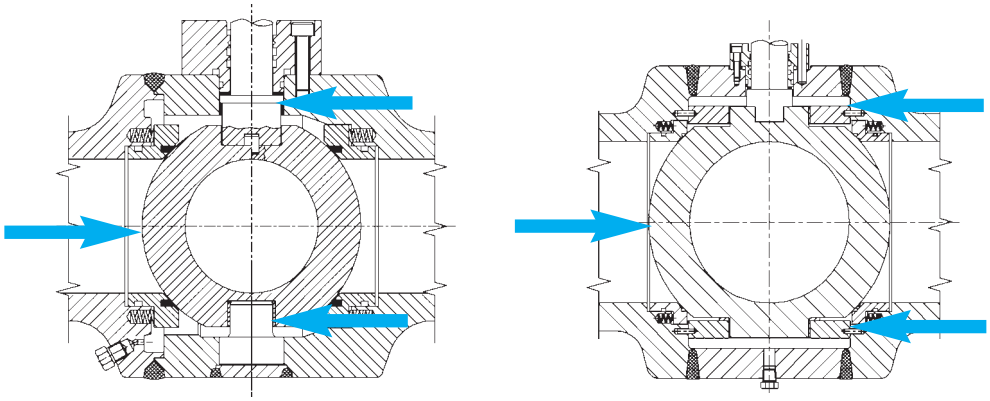
STANDARD FEATURES	Type 59	Type 58	COMMENTS
Size range	1 1/2" FB up to 6" RB	6" FB up to 60"	Special sizes
Pressure	ANSI 150-2500	ANSI 150-2500	
Fully welded body design	YES	YES	
Anti-static device	YES	YES	
Self relieving seats	YES	NO	58-optional features (no extra cost)
Double Piston Effect seats	NO	YES	59-optional features (*)
Primary metal to metal seal, secondary protection with o-ring	NO	YES	
Plastic polymer insert on seat sealing	YES	YES	58-optional features (*)
Lubricated stem	YES	YES	
Lubricated seat	NO	YES	59-optional features (*)
Double block and bleed	YES	YES	Open / closed position
Metal to metal seats	YES(*)	YES(*)	
Trunnion mounted ball	YES	YES	
Full or Reduced bore	YES	YES	
Bi-directional	YES	YES	
Stem anti-blow out proof design	YES	YES	
Stem extension	YES(*)	YES(*)	
N.D.T. verification on body weld joints (ultrasonic examination)	YES	YES	According to ASME VIII Div.I (appendix 12)
N.D.T. verification on welding ends (dye penetrant)	YES	YES	According to ASME VIII Div.I
Minimum thickness ASME B16.34	YES	YES	
RF or RTJ flanges to ASME B16.5	YES	YES	Other flange design(*)
BW (butt-weld) ends to ASME B16.25	YES	YES	Other code for BW design(*)
Bore and end-to-end dimensions to API 6D	YES	YES	Dimensions other than API 6D(*)
Manufacture in accordance with API spec. 6D / ASME B 16.34	YES	YES	
Materials certification to EN10204 type 3.1.B for pressure containing parts, ball, stem and seats	YES	YES	Type 3.1.C materials certification level (*)
Fire safe design to API 6FA (BS 6755 Pt. 2)	YES	YES	Other fire safe code (e.g. API 607)(*)
Operation by lever, gear w/ handwheel or actuator	YES	YES	
Maintenance	The body construction precludes the internal disassembly at site. The complete replacement on the upper stem seal can be achieved with the valve installed without pressure.		





(*) available with extra cost

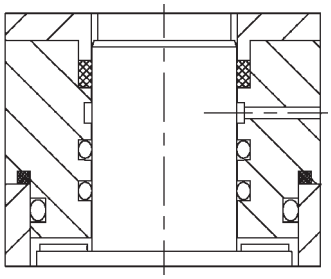
Trunnion mounted ball valve



TYPE 59 TYPE 58

When the ball is in fully closed position, two trunnions absorb the side thrust generated by line pressures, preventing excess friction between ball and seats. With this system, even at full rated working pressure, operating torque stays low. Therefore a generous sizing of trunnions is essential to the life and operability of the valve.
The spherical surface is machined and ground to close tolerance. To reduce torque and minimize wear, the ball is then electroless nickel plated and polished to mirror finish. For special applications the ball may be hardfaced with T.C.C. (Tungsten carbide coating) to improve resistance to wear and prevent scratching caused by hard particles.

VALVITALIA reserves the right to change design, specification and materials without notice



Emergency stem and seat sealant injection

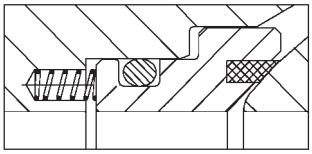
In case of emergency, when sealing materials (seat sealing and stem o-ring) are damaged or decomposed by fire or other accidental causes, a sealant injection into fittings on both stem and seat prevents leakage until the primary seal is restored. For Type 59 ball valve the seat sealant injection is an optional feature available with an extra cost. However, the material between ball and seat is a thermoplastic, thus no further injection is necessary. Self lubricated, low friction materials are used for stem bearings, stem seals and body seats. Low friction materials, e.g. nylon, are used for seat inserts. Stem bearings and self-lubricating seals give predictable operating torque for the life of the valve.

Stem

The stem is made separately from the ball. It is blow-out proof, properly obtained with an integral collar in the bottom of the stem.

Stem Seal

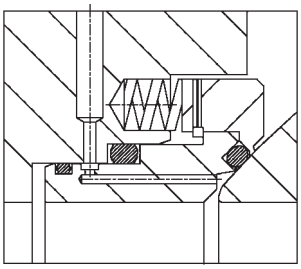
Sealing system can be defined triple: two static o-rings seal the stem, plus a third graphite retained by the adaptor flange. This ultimate seal can be replaced when the valve is in line and in closed position.



Seat design Type 59

"59" Sealing Principle

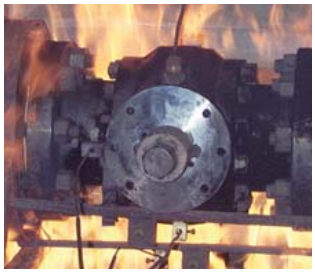
The sealing between the seat and the ball is performed by a plastic polymer insert. The choice of this soft sealing depending on the service conditions.
The initial seal, at low differential pressure, is obtained by the spring loaded floating seats (spring energized) which achieve independent sealing.
Increasing the line pressure behind the upstream seat ring helps the seat spring load to force the upstream seat tightly against the ball.



Seat design Type 58

"58" Sealing Principle

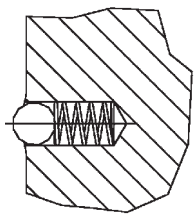
The sealing between the seat and the ball is performed by a primary metal to metal seal, and a secondary O-ring seal for both the seats. The choice of the secondary seal "soft sealing" depending on the service conditions.
The initial seal, at low differential pressure, is obtained by the spring loaded floating seats (spring energized) which achieve independent sealing.
Increasing the line pressure behind the upstream seat ring helps the seat spring load to force the upstream seat tightly against the ball.



Fire safe test

Fire safe design and test

Fire safe is standard design of Valvitalia ball valve.
Two o-ring and gland gasket prevent leakpaths from the valve stem area. If fire deteriorate o-ring, gland gasket, the stem firesafe packing prevent fluid or gas leakage.
Valvitalia soft seat ball valve fire safe test (shown in the image) was witnessed and certified according to API6FA – BS 6755 PT.2



Antistatic device detail

Anti-static device

This device is a standard feature of VALVITALIA ball valves. A coil spring thrusts a little sphere, providing earthed continuity between stem and other metallic components of valve (ball and body) in order to avoid sparks during turning of the stem for opening and closing the valve and prevent problems in case of use with flammable fluids and gas.

TECHNICAL FEATURES

Body vent and drain

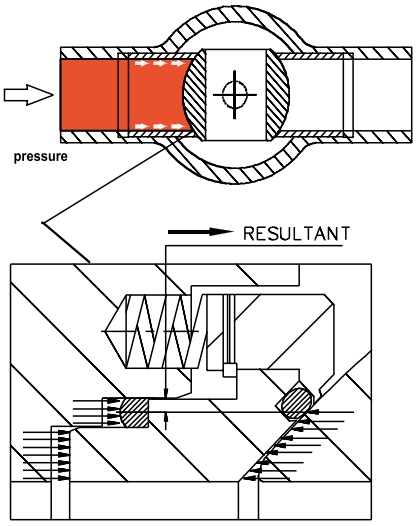
The drain and vent plug of the valve body enable to check the integrity of the seat ring. A bleed valve may replace the drain plug.

Double block and bleed

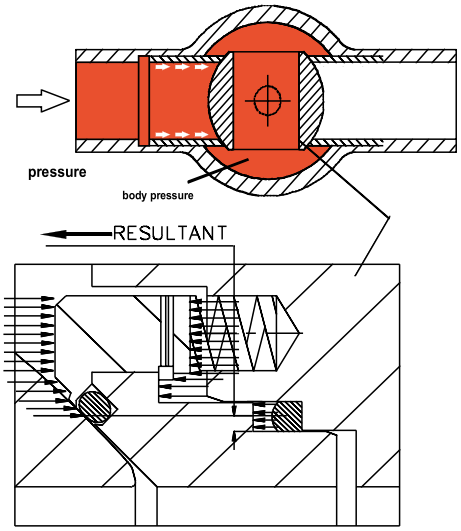
VALVITALIA design of a valve with two seating surfaces between which the cavity can be vented trough a bleed connection and thus confirm the tightness of the valve, as well in closed position as open position, when pressure is applied to any side or both sides of the valve.

Double piston effect (59-option, 58-standard)

With the DPE seat configuration when there is a leakage in the upstream seat, the pressure entering into the body cavity pushes the downstream seat against the ball and the valve seals.
This effect is a sealing principle involved in utilising line pressure to effect a seal across the floating seat.



First barrier

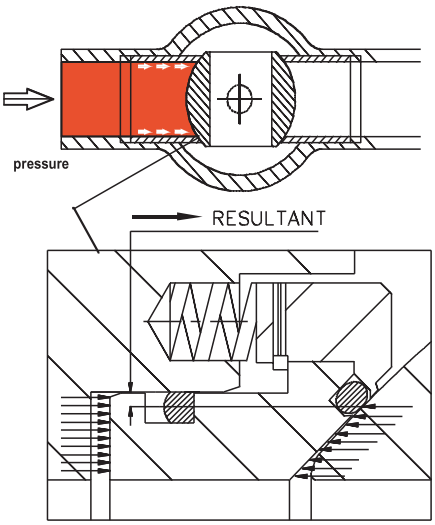


Second barrier

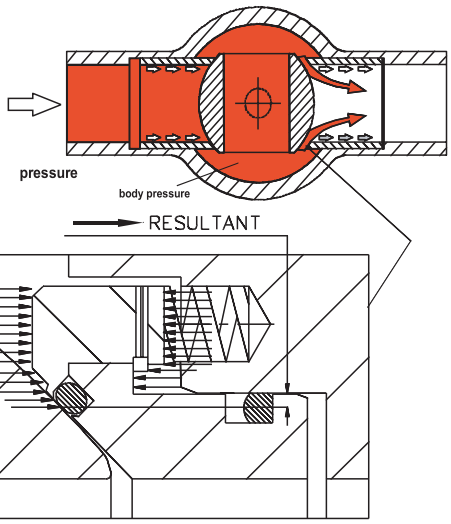
A relief valve is recommended to be installed to protect the body cavity from excess pressure.

Self relieving seat (59-standard, 58-option)

In self relieving condition, excessive internal body pressure is automatically relieved both in upstream and downstream line by forcing the seats away from the closure element.



First barrier



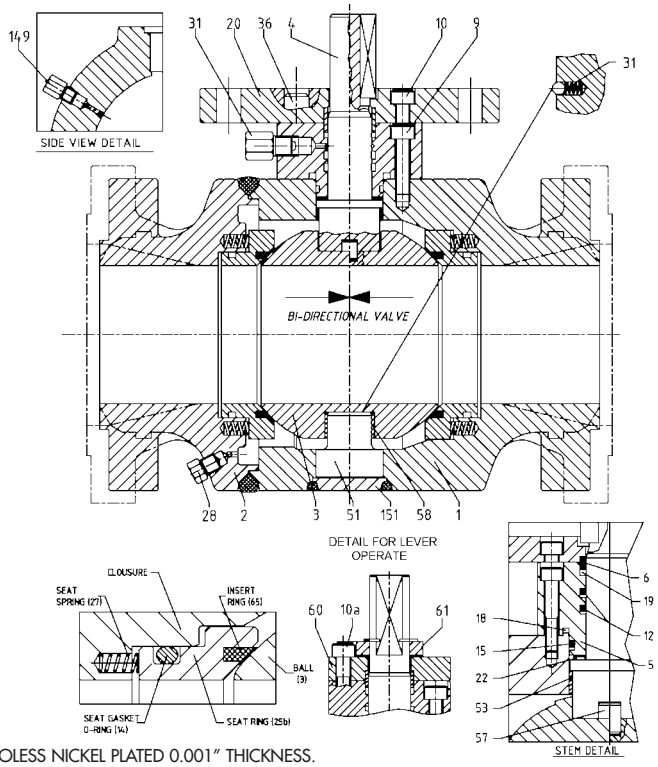
Second barrier

VALVITALIA reserves the right to change design, specification and materials without notice

STD. MATERIAL SELECTION

Type 59

Pos.	Description	Material	Notes
151	LOWER TRUNNION PLATE	A-350-LF2	
149	VENT PLUG	CARBON STEEL	
65	SEAT INSERT	PTFE CCG	2
61	STOP COLLAR	Fe 360	3
60	BEARING HOUSING	A-105	3
58	TRUNNION BEARING	DRY BEARING	
57	STEM PIN	42CrMo4	
53	STEM BEARING	DRY BEARING	
51	LOWER TRUNNION	42CrMo4 (AISI 4140)	1
36	PIN	C75	
31	ANTISTATIC DEVICE	18-8	
30	STEM GREASE FITTING	AISI 1018	
28	DRAIN PLUG	CARBON STEEL	
27	SEAT SPRING	18-8	
25b	SEAT RING	A-350-LF2 + PTFE CCG	1
22	UPPER THRUST WASHER	DRY BEARING	
20	ADAPTER PLATE	Fe 430 Gr. B	4
19	STEM F.S. SEAL	GRAPHITE	
18	TOP COVER F.S. SEAL	GRAPHITE	
15	TOP COVER O-RING	VITON	
14	SEAT GASKET O-RING	VITON	
12	STEM O-RING	VITON	
10a	BEARING HOUSING CAPSCREW	A-193-B7	3
10	ADAPTER PLATE CAPSCREW	A-193-B7	4
9	TOP COVER CAPSCREW	A-193-B7	
6	GLAND BUSHING	AISI 1018	1
5	TOP COVER	A-350-LF2	
4	STEM	42CrMo4 (AISI 4140)	1
3	BALL	A-350-LF2	1
2	CLOSURE	A-350-LF2	
1	BODY	A-350-LF2	

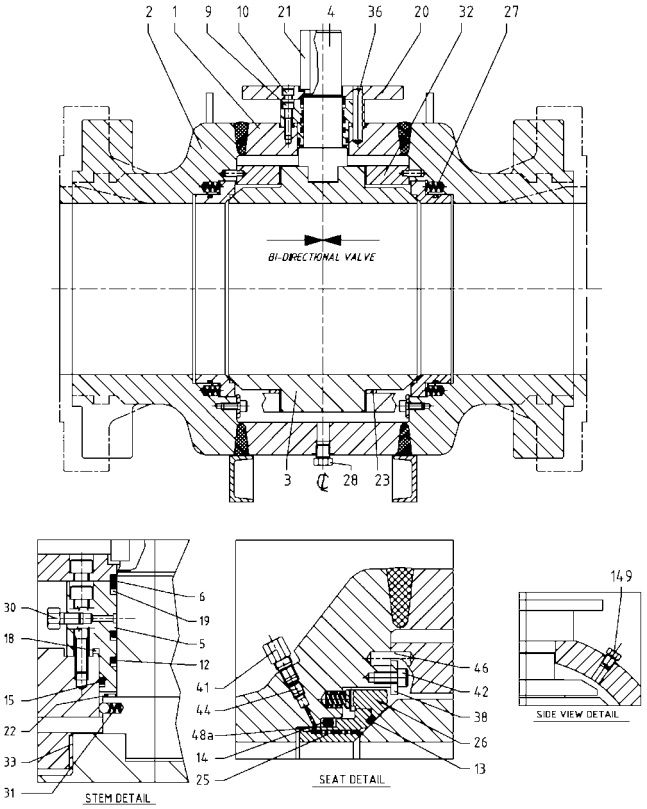


NOTES: 1) ELECTROLESS NICKEL PLATED 0.001" THICKNESS.
2) NYLON INSERT ON CLASS 900/1500 3) FOR LEVER OPERATED VALVES
4) FOR GEAR OR ACTUATOROPERATED VALVES

SERVICE: STANDARD FLUID – CARBON STEEL VALVE – FIRE SAFE DESIGN
TEMPERATURE: -7°C +160°C (-7°C + 121°C FOR CLASS 900-1500)

Type 58

Pos.	Description	Material	Notes
149	VENT PLUG	CARBON STEEL	
48a	GREASE SEAL O-RING	VITON	3
46	BEARING RETAINER PIN	42CrMo4 (AISI 4140)	
44	CHECK VALVE	AISI 1018	
42	WASHER CAPSCREW	A-193-B7	
41	SEAT GREASE FITTING	AISI 1018	
38	WASHER	CARBON STEEL	
36	PIN	C75	
33	BEARING	DRY BEARING	
32	BEARING RETAINER	Fe 510	
31	ANTISTATIC DEVICE	18-8	
30	STEM GREASE FITTING	AISI 1018	
28	DRAIN PLUG	CARBON STEEL	
27	SEAT SPRING	18-8	
26	INNER SEAT RING	A-350-LF2	1
25	OUTER SEAT RING	A-350-LF2	1
23	LOWER THRUST WASHER	Fe 360 + PPS	
22	UPPER THRUST WASHER	DRY BEARING	
20	ADAPTER PLATE	Fe 430 Gr. B	
19	STEM F.S. SEAL	GRAPHITE	
18	TOP COVER F.S. SEAL	GRAPHITE	
15	TOP COVER O-RING	VITON	3
14	SEAT GASKET O-RING	VITON	3
13	SEAL O-RING	VITON	2-3
12	STEM O-RING	VITON	3
10	ADAPTER PLATE CAPSCREW	A-193-B7	
9	TOP COVER CAPSCREW	A-193-B7	
6	GLAND BUSHING	AISI 1018	1
5	TOP COVER	A-350-LF2	
4	STEM	C40 (AISI 1040)	1
3	BALL	A-350-LF2	1
2	CLOSURE	A-350-LF2	
1	BODY	A-350-LF2	



NOTES: 1) ELECTROLESS NICKEL PLATED 0.001" THICKNESS.
2) NYLON FOR CLASS 1500
3) VITON AED FOR CLASS 600 AND ABOVE

SERVICE: STANDARD FLUID – CARBON STEEL VALVE –FIRE SAFE DESIGN
TEMPERATURE: -7°C +160°C (-7°C + 121°C FOR CLASS 900-1500)

STD. MATERIAL SELECTION

Trim materials for general service (sweet fluids) FULL CARBON STEEL

AA	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-29° + 180°C	-29° / + 180°C	-29° + 180°C	-29° / + 180°C
Body	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Closure	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Ball	ASTM A350 Gr.LF2 + ENP	AISI 4140 + ENP	ASTM A350 Gr.LF2 + ENP	A-694-F65 + ENP
Seat	ASTM A350 Gr.LF2 + ENP	ASTM A350 Gr.LF2 + ENP	ASTM A350 Gr.LF2 + ENP	ASTM A350 Gr.LF2 + ENP
Stem	AISI 4140 + ENP	AISI 4140 + ENP	AISI 1040 + ENP	AISI 4140 + ENP
Capscrew	B7 / 2H	B7 / 2H	B7 / 2H	B7 / 2H
Seat gasket	PTFE (2)	NYLON	VITON (2)	NYLON
Other seals	VITON	VITON	VITON	VITON
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750



Trim materials for corrosive services (comply to NACE MR 01-75) STAINLESS STEEL TRIM

CC	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-29° + 180°C	-29° / + 180°C	-29° + 180°C	-29° / + 180°C
Body	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Closure	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Ball	A 182 F316 + ENP	A 182 F316 LN + ENP	A 182 F316 + ENP	A-694-F65 + ENP
Seat	A 182 F316 + ENP	A 182 F316 LN + ENP	A 182 F316 + ENP	ASTM A350 Gr.LF2 + ENP
Stem	A 182 F316 + ENP	17-4-PH + ENP	17-4-PH + ENP	AISI 4140 + ENP
Capscrew	B7 / 2H	B7 / 2H	B7 / 2H	B7 / 2H
Seat gasket	PTFE (2)	NYLON	VITON (2)	NYLON
Other seals	VITON	VITON	VITON	VITON
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750



Trim materials for highly corrosive services 13% Cr. STAINLESS STEEL TRIM

DD	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-29° + 180°C	-29° / + 180°C	-29° + 180°C	-29° / + 180°C
Body	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Closure	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Ball	A 182 F6 + ENP	A 182 F6 + ENP	A 182 F6 + ENP	A 182 F6 + ENP
Seat	A 182 F6 + ENP	A 182 F6 + ENP	A 182 F6 + ENP	A 182 F6 + ENP
Stem	A 182 F6 + ENP	A 182 F6NM + ENP	A 182 F6 + ENP	A 182 F6 + ENP
Capscrew	B7 / 2H	B7 / 2H	B7 / 2H	B7 / 2H
Seat gasket	PTFE (2)	NYLON	VITON (2)	NYLON
Other seals	VITON	VITON	VITON	VITON
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750



Trim materials for corrosive services (comply to NACE MR 01-75) FULL STAINLESS STEEL VALVE

EE	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-29° + 180°C	-29° / + 180°C	-29° + 180°C	-29° / + 180°C
Body	A 182 F316	A 182 F316	A 182 F316	A 182 F316
Closure	A 182 F316	A 182 F316	A 182 F316	A 182 F316
Ball	A 182 F316 + ENP	A 182 F316LN + ENP	A 182 F316 + ENP	A 182 F316LN + ENP
Seat	A 182 F316 + ENP	A 182 F316LN + ENP	A 182 F316 + ENP	A 182 F316LN + ENP
Stem	A 182 F316 + ENP	17-4-PH + ENP	17-4-PH + ENP	17-4-PH + ENP
Capscrew	B7 / 2H (TEFLON COATED)	B7 / 2H (TEFLON COATED)	B7 / 2H (TEFLON COATED)	B7 / 2H (TEFLON COATED)
Seat gasket	PTFE (2)	NYLON	VITON (2)	NYLON
Other seals	VITON	VITON	VITON	VITON
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750

Note: (2) NYLON FOR CLASS 900-1500

Alternative material selections available upon request.

VALVITALIA reserves the right to change design, specification and materials without notice

STD. MATERIAL SELECTION

Trim materials for corrosive services (comply to NACE MR 01-75) FULL DUPLEX STEEL VALVE

FF	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-29° + 180°C	-29° / + 180°C	-29° + 180°C	-29° / + 180°C
Body	A 182 F51	A 182 F51	A 182 F51	A 182 F51
Closure	A 182 F51	A 182 F51	A 182 F51	A 182 F51
Ball	A 182 F51	A 182 F51	A 182 F51 + ENP	A 182 F51
Seat	A 182 F51	A 182 F51	A 182 F51 + ENP	A 182 F51
Stem	A 182 F51 + ENP	A 182 F51 + ENP	A 182 F51+ ENP	A 182 F51 + ENP
Capscrew	B7 / 2H (TEFLON COATED)	B7 / 2H (TEFLON COATED)	B7 / 2H (TEFLON COATED)	B7 / 2H (TEFLON COATED)
Seat gasket	PTFE (2)	NYLON	VITON (2)	NYLON
Other seals	VITON	VITON	VITON	VITON
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750



Trim materials for low temperature with stem extension FULL STAINLESS STEEL VALVE

GG	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-49°+180°C	-49° / +180°C	-49°+180°C	-49° / +180°C
Body	A 182 F316	A 182 F316	A 182 F316	A 182 F316
Closure	A 182 F316	A 182 F316	A 182 F316	A 182 F316
Ball	A 182 F316 + ENP	A 182 F316LN + ENP	A 182 F316 + ENP	A 182 F316LN + ENP
Seat	A 182 F316 + ENP	A 182 F316LN + ENP	A 182 F316 + ENP	A 182 F316LN + ENP
Stem	A 182 F316 + ENP	17-4-PH + ENP	17-4-PH + ENP	17-4-PH + ENP
capscrew	L7 / Gr.7	L7 / Gr.7	L7 / Gr.7	L7 / Gr.7
Seat gasket	PTFE (2)	NYLON	VITON (2)	NYLON
Other seals	PTFE + ELGILOY	PTFE + ELGILOY	PTFE + ELGILOY	PTFE + ELGILOY
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750



Trim materials for cryogenic temperature with stem extension FULL STAINLESS STEEL VALVE

LL	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-196°+120°C	-196° / +120°C	-196°+120°C	-196° / +120°C
Body	A 182 F316	A 182 F316	A 182 F316	A 182 F316
Closure	A 182 F316	A 182 F316	A 182 F316	A 182 F316
Ball	A 182 F316 + ENP	A 182 F316LN + ENP	A 182 F316 + ENP	A 182 F316LN + ENP
Seat	A 182 F316 + ENP	A 182 F316LN + ENP	A 182 F316 + ENP	A 182 F316LN + ENP
Stem	XM 19 + ENP	INCONEL 718 + ENP	XM 19 + ENP	XM 19 + ENP
Capscrew	A 453 Gr.660	A 453 Gr.660	A 453 Gr.660	A 453 Gr.660
Seat gasket	KEL-F	KEL-F	KEL-F	KEL-F
Other seals	PTFE + ELGILOY	PTFE + ELGILOY	PTFE + ELGILOY	PTFE + ELGILOY
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750

Trim materials for high temperature

MM	59		58	
Rating	150-1500	2500	150-1500	2500
Temperature	-29° + 250°C	-29° / + 250°C	-29° + 250°C	-29° / + 250°C
Body	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Closure	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2	ASTM A350 Gr.LF2
Ball	ASTM A350 Gr.LF2 + TCC	ASTM A350 Gr.LF2 + TCC	ASTM A350 Gr.LF2 + TCC	ASTM A350 Gr.LF2 + TCC
Seat	ASTM A350 Gr.LF2 + TCC	ASTM A350 Gr.LF2 + TCC	ASTM A350 Gr.LF2 + TCC	ASTM A350 Gr.LF2 + TCC
Stem	17-4-PH + ENP	INCONEL 718 + ENP	17-4-PH + ENP	INCONEL 718 + ENP
Capscrew	B7 / 2H	B7 / 2H	B7 / 2H	B7 / 2H
Seat gasket	METAL TO METAL	METAL TO METAL	METAL TO METAL	METAL TO METAL
Other seals	PTFE + ELGILOY	PTFE + ELGILOY	PTFE + ELGILOY	PTFE + ELGILOY
Seat spring	INCONEL X 750	INCONEL X 750	INCONEL X 750	INCONEL X 750



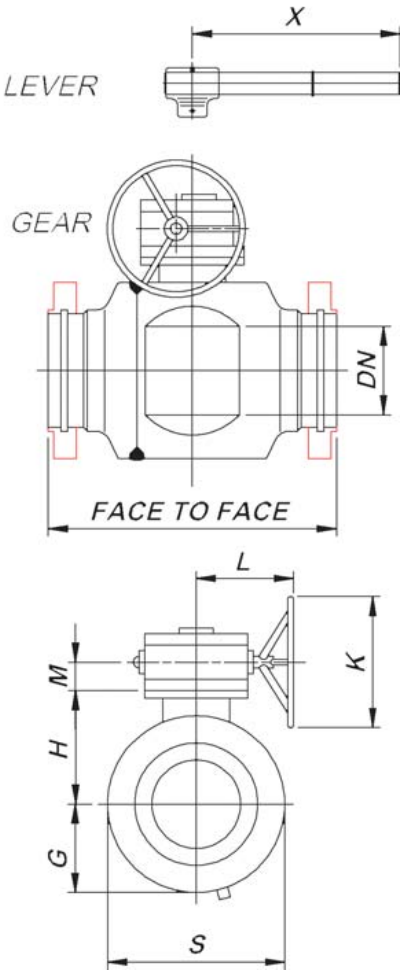
Note: (2) NYLON FOR CLASS 900-1500

Alternative material selections available upon request.

BALL VALVES TYPE 59 (Overall Dimensions)

TYPE 59	ANSI CLASS 150 (PN 20) Working Pressure 275 Psi (19 bar) - Hydrostatic Shell Test 420 Psi (29 bar)													
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	X	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							LEVER	WEIGHT	WE	RF/RTJ
1.5"	38	♣	♣	♣	75	90	120	27	125	130	270	3	10	12
2"x1.5"x2"	38	216	178	191	75	90	120	27	125	130	270	3	12	15
2"	51	216	178	191	85	110	120	27	125	160	320	3	15	20
3"x2"x3"	51	283	203	216	85	110	120	27	125	160	320	3	20	25
3"	76	283	203	216	120	135	120	27	125	220	450	3	27	36
4"x3"x4"	76	305	229	241	120	135	120	27	125	220	450	3	32	42
4"	102	305	229	241	140	160	135	27	125	240	660	3	50	63
6"x4"x6"	102	457	394	406	140	160	135	27	125	240	660	3	60	70

♣ To be confirmed after P/O placement.



TYPE 59	ANSI CLASS 300 (PN 50) Working Pressure 720 Psi (50 bar) - Hydrostatic Shell Test 1080 Psi (75 bar)													
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	X	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							LEVER	WEIGHT	WE	RF/RTJ
1.5"	38	♣	♣	♣	75	90	120	27	125	130	270	3	11	16
2"x1.5"x2"	38	216	216	232	75	90	120	27	125	130	270	3	13	18
2"	51	216	216	232	85	110	120	27	125	160	370	3	18	25
3"x2"x3"	51	283	283	298	85	110	120	27	125	160	370	3	25	30
3"	76	283	283	298	120	135	120	27	125	220	570	3	32	40
4"x3"x4"	76	305	305	321	120	135	120	27	125	220	570	3	45	58
4"	102	305	305	321	140	160	120	27	125	240	660	3	66	83
6"x4"x6"	102	457	404	419	140	160	120	27	125	240	660	3	85	108

♣ To be confirmed after P/O placement.

TYPE 59	ANSI CLASS 400 (PN 64) Working Pressure 960 Psi (66 bar) - Hydrostatic Shell Test 1440 Psi (100 bar)													
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	X	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							LEVER	WEIGHT	WE	RF/RTJ
1.5"	38	♣	♣	♣	75	90	120	27	125	130	270	3	12	19
2"x1.5"x2"	38	♣	♣	♣	75	90	120	27	125	130	270	3	14	22
2"	51	♣	♣	♣	85	110	120	27	125	160	370	3	19	25
3"x2"x3"	51	♣	♣	♣	85	110	120	27	125	160	370	3	24	35
3"	76	♣	♣	♣	120	135	120	27	125	220	570	3	42	55
4"x3"x4"	76	406	406	410	120	135	120	27	125	220	570	3	45	63
4"	102	406	406	410	150	160	135	35	125	250	660	5	77	95
6"x4"x6"	102	495	495	498	150	160	135	35	125	250	660	5	95	120

♣ To be confirmed after P/O placement.



TYPE 59	ANSI CLASS 600 (PN 100) Working Pressure 1440 Psi (99 bar) - Hydrostatic Shell Test 2160 Psi (149 bar)													
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	X	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							LEVER	WEIGHT	WE	RF/RTJ
1.5"	38	♣	♣	♣	75	90	120	27	125	135	300	3	12	19
2"x1.5"x2"	38	292	292	295	75	90	120	27	125	135	300	3	14	22
2"	51	292	292	295	85	110	120	27	125	165	430	3	20	28
3"x2"x3"	51	356	356	359	85	110	120	27	125	165	430	3	30	38
3"	76	356	356	359	120	155	120	27	125	225	670	3	48	63
4"x3"x4"	76	432	432	435	120	155	120	27	125	225	670	3	67	86
4"	102	432	432	435	150	190	135	35	125	255	760	5	93	118
6"x4"x6"	102	559	559	562	150	190	135	35	125	255	760	5	115	140

♣ To be confirmed after P/O placement.



VALVITALIA reserves the right to change design, specification and materials without notice

BALL VALVES TYPE 59 (Overall Dimensions)

TYPE 59	ANSI CLASS 900 (PN 150) Working Pressure 2160 Psi (149 bar) - Hydrostatic Shell Test 3240 Psi (223 bar)													
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	X	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							LEVER	WEIGHT	WE	RF/RTJ
1.5″	38	♣	♣	♣	85	95	120	27	125	140	400	3	20	31
2″x1.5″x2″	38	369	369	372	85	95	120	27	125	140	400	3	22	43
2″	51	369	369	372	90	120	120	27	125	175	600	3	40	52
3″x2″x3″	51	381	381	384	90	120	120	27	125	175	600	3	48	64
3″	76	381	381	384	125	155	135	35	125	240	900	5	69	98
4″x3″x4″	76	457	457	460	125	155	135	35	125	240	900	5	75	107
4″	102	457	457	460	150	190	168	42	250	265	-	9	110	140
6″x4″x6″	102	610	610	613	150	190	168	42	250	265	-	9	147	190

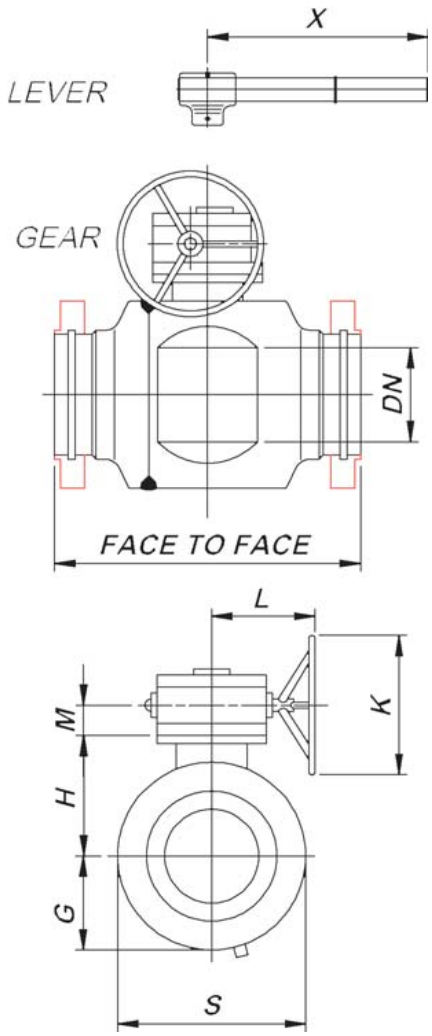
♣ To be confirmed after P/O placement.

TYPE 59	ANSI CLASS 1500 (PN 250) Working Pressure 3600 Psi (248 bar) - Hydrostatic Shell Test 5400 Psi (372 bar)													
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	X	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							LEVER	WEIGHT	WE	RF/RTJ
1.5″	38	♣	♣	♣	100	95	120	27	125	200	400	3	29	36
2″x1.5″x2″	38	369	369	372	100	95	120	27	125	200	400	3	35	43
2″	51	369	369	372	110	120	120	27	125	220	600	3	45	57
3″x2″x3″	51	470	470	473	110	120	120	27	125	220	600	3	60	75
3″	76	470	470	473	155	155	135	35	125	300	900	5	90	110
4″x3″x4″	76	546	546	549	155	155	135	35	125	300	900	5	100	129
4″	102	546	546	549	190	190	168	42	250	335	-	9	146	190
6″x4″x6″	102	705	705	711	190	190	168	42	250	335	-	9	230	290

♣ To be confirmed after P/O placement.

TYPE 59	ANSI CLASS 2500 (PN 420) Working Pressure 6000 Psi (420 bar) - Hydrostatic Shell Test 9000 Psi (630 bar)												
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							WEIGHT	WE	RF/RTJ
1.5″	32	♣	♣	♣	110	140	120	27	125	215	3	40	62
2″x1.5″x2″	32	451	451	454	110	140	120	27	125	215	3	44	86
2″	44	451	451	454	125	160	135	35	125	235	5	70	118
3″x2″x3″	44	578	578	584	125	160	135	35	125	235	5	98	152
3″	64	578	578	584	165	185	168	42	250	305	9	162	218
4″x3″x4″	64	673	673	683	165	185	168	42	250	305	9	168	282
4″	89	673	673	683	230	200	185	50	300	370	15	322	362
6″x4″x6″	89	914	914	927	230	200	185	50	300	370	15	332	570
6″	133	914	914	927	260	235	250	50	500	485	28	675	750
8″x6″x8″	133	1022	1022	1038	260	235	250	50	500	485	28	860	990

♣ To be confirmed after P/O placement.



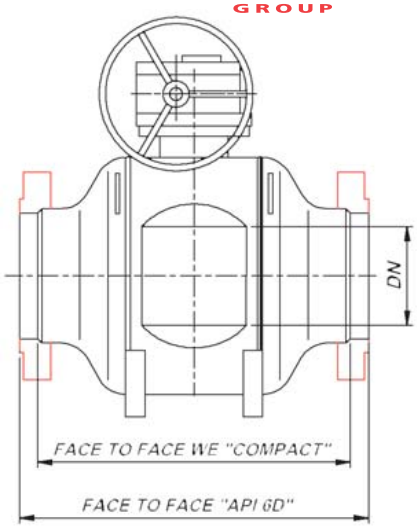


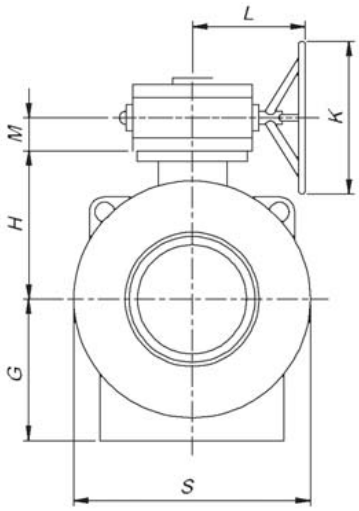


BALL VALVES TYPE 58 (Overall Dimensions)

TYPE 58	ANSI CLASS 150 (PN 20) Working Pressure 275 Psi (19 bar) - Hydrostatic Shell Test 420 Psi (29 bar)														
SIZE	DN	FACE TO FACE			FACE TO FACE WE COMPACT	G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ								WEIGHT	WE	RF/RTJ
6"	152	457	394	406	457	300	215	135	35	125	305	5	165	200
8"X6"X8"	152	521	457	470	457	300	215	135	35	125	400	5	185	220
8"	203	521	457	470	521	340	255	168	42	250	400	9	170	210
10"X8"X10"	203	559	533	546	546	340	255	168	42	250	465	9	195	250
10"	254	559	533	546	559	380	295	185	50	300	465	15	230	290
12"X10"X12"	254	635	610	622	597	380	295	185	50	300	550	15	250	315
12"	305	635	610	622	635	420	345	185	50	300	550	15	370	460
16"X12"X16"	305	838	762	775	775	420	345	185	50	300	675	15	480	590
14"	337	762	686	699	724	470	375	250	50	500	585	28	520	650
16"	387	838	762	775	775	510	415	250	50	500	675	28	790	980
20"X16"X20"	387	991	914	927	902	510	415	250	50	500	835	28	920	1150
18"	438	914	864	876	851	545	460	275	50	500	760	42	1120	1300
20"	489	991	914	927	902	590	495	310	66	600	835	67	1420	1700
24"X20"X24"	489	1143	1067	1080	1067	590	495	310	66	600	990	67	1632	1912
22"	540	♣	♣	♣	978	630	540	310	66	600	920	67	1920	2280
24"	591	1143	1067	1080	1067	670	575	355	65	600	990	104	2400	2900
30"X24"X30"	591	1397	1295	♣	1245	670	575	355	65	600	1235	104	2748	3238
26"	635	1245	1143	♣	1130	720	625	415	86	600	1060	170	3000	3620
28"	686	1346	1245	♣	1194	755	660	415	86	600	1140	170	3700	4380
30"	737	1397	1295	♣	1245	805	700	415	75	600	1235	178	4200	5000
36"X30"X36"	737	1727	1524	♣	1435	805	700	415	75	600	1445	178	4858	6000
32"	781	1524	1372	♣	1308	845	740	415	75	600	1295	178	6050	6980
34"	832	1626	1473	♣	1384	875	785	415	75	600	1360	178	6400	6600
36"	876	1727	1524	♣	1435	910	825	500	96	600	1445	273	7100	8140
40"	978	♣	♣	♣	1651	1000	905	500	96	600	1625	273	9770	10870
42"	1022	♣	♣	♣	1689	1035	970	500	96	600	1715	273	11200	12600
46"	1118	♣	♣	♣	1854	1135	1080	500	96	600	1895	273	14380	15900
48"	1168	♣	♣	♣	1930	1180	1130	500	96	600	1970	273	16220	17850
56"	1384	♣	♣	♣	2210	1340	1280	518	118	700	2285	710	24800	26000
60"	1461	♣	♣	♣	2350	1435	1400	518	118	700	2450	710	29000	30400

♣ To be confirmed after P/O placement.





TYPE 58	ANSI CLASS 300 (PN 50) Working Pressure 720 Psi (50 bar) - Hydrostatic Shell Test 1080 Psi (75bar)														
SIZE	DN	FACE TO FACE			FACE TO FACE WE COMPACT	G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ								WEIGHT	WE	RF/RTJ
6"	152	457	403	419	457	300	215	168	42	250	305	9	175	210
8"X6"X8"	152	457	403	419	457	300	215	168	42	250	405	9	195	230
8"	203	521	502	518	521	340	255	185	50	300	405	15	180	220
10"X8"X10"	203	559	568	584	546	340	255	185	50	300	470	15	205	260
10"	254	559	568	584	559	380	295	250	50	500	470	28	250	310
12"X10"X12"	254	635	648	664	597	380	295	250	50	500	555	28	270	335
12"	305	635	648	664	635	420	345	250	50	500	555	28	390	480
16"X12"X16"	305	838	838	854	775	420	345	250	50	500	680	28	500	610
14"	337	762	762	778	724	470	375	250	50	500	595	28	550	680
16"	387	838	838	854	775	510	415	275	50	500	680	42	840	1030
20"X16"X20"	387	991	991	1010	902	510	415	275	50	500	845	42	970	1200
18"	438	914	914	930	851	545	460	310	66	600	770	67	1180	1380
20"	489	991	991	1010	902	590	495	355	65	600	845	104	1500	1780
24"X20"X24"	489	1143	1143	1165	1067	590	495	355	65	600	1000	104	1692	1992
22"	540	1092	1092	1114	978	630	540	415	86	600	930	170	2030	2390
24"	591	1143	1143	1165	1067	670	575	415	86	600	1000	170	2540	3040
30"X24"X30"	591	1397	1397	1422	1245	670	575	415	86	600	1250	170	2888	3378
26"	635	1245	1245	1270	1130	720	625	415	75	600	1070	178	3160	3780
28"	686	1346	1346	1372	1194	755	660	415	75	600	1150	178	3900	4580
30"	737	1397	1397	1422	1245	805	700	500	96	600	1250	273	4430	5230
36"X30"X36"	737	1727	1727	1756	1435	805	700	500	96	600	1460	273	5088	6230
32"	781	1524	1524	1553	1308	845	740	500	96	600	1310	273	6320	7210
34"	832	1626	1626	1654	1384	875	785	500	96	600	1370	273	6690	6890
36"	876	1727	1727	1756	1435	910	825	500	96	600	1460	273	6720	7760
40"	978	♣	♣	♣	1651	1000	905	500	96	600	1640	273	10290	11390
42"	1022	♣	♣	♣	1689	1035	970	500	96	600	1730	273	11800	13200
46"	1118	♣	♣	♣	1854	1135	1080	518	118	700	1915	710	15140	16660
48"	1168	♣	♣	♣	1930	1180	1130	518	118	700	1990	710	17080	18710
56"	1384	♣	♣	♣	2210	1340	1280	518	118	700	2305	710	26090	27290
60"	1461	♣	♣	♣	2350	1435	1400	518	118	700	2475	710	30530	31930

♣ To be confirmed after P/O placement.





VALVITALIA reserves the right to change design, specification and materials without notice

BALL VALVES TYPE 58 (Overall Dimensions)

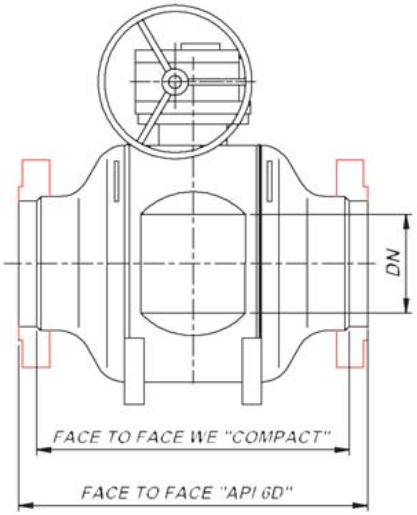
TYPE 58	ANSI CLASS 400 (PN 64) Working Pressure 960 Psi (66 bar) - Hydrostatic Shell Test 1440 Psi (100 bar)													
SIZE	DN	FACE TO FACE			FACE TO FACE WE COMPACT	G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ								WEIGHT	WE	RF/RTJ
6"	153	496	496	499	457	310	215	168	42	250	310	9	210	270
8"X6"X8"	153	597	597	601	457	310	215	168	42	250	410	9	230	260
8"	204	597	597	601	546	350	255	185	50	300	410	15	225	285
10"X8"X10"	204	674	674	677	546	350	255	185	50	300	475	15	260	450
10"	254	674	674	677	597	390	295	250	50	500	475	28	290	362
12"X10"X12"	254	762	762	766	597	390	295	250	50	500	560	28	330	430
12"	305	762	762	766	673	430	345	250	50	500	560	28	452	562
16"X12"X16"	305	902	902	905	775	430	345	250	50	500	685	28	530	630
14"	337	826	826	829	724	475	375	275	50	500	600	30	690	840
16"	388	902	902	905	775	520	415	310	66	600	685	67	1013	1233
20"X16"X20"	388	1055	1055	1061	902	520	415	310	66	600	855	67	1130	1360
18"	439	978	978	982	851	560	460	355	65	600	780	104	1366	1656
20"	489	1055	1055	1061	902	600	495	415	86	600	855	170	1710	2050
24"X20"X24"	489	1232	1232	1242	1067	600	495	415	86	600	1010	170	1900	2250
22"	540	1143	1143	1153	978	645	540	415	86	600	940	170	2320	2770
24"	591	1232	1232	1242	1067	685	575	415	86	600	1010	170	2960	3520
30"X24"X30"	591	1524	1524	1537	1245	685	575	415	86	600	1260	170	3350	3900
26"	635	1309	1309	1321	1130	735	625	415	75	600	1085	178	3672	4342
28"	686	1397	1397	1410	1194	770	660	500	96	600	1160	273	4377	5177
30"	737	1524	1524	1537	1245	825	700	500	96	600	1260	273	5107	6007
36"X30"X36"	737	1880	1880	1896	1435	825	700	500	96	600	1475	273	5765	6670
32"	782	1651	1651	1667	1308	865	740	500	96	600	1325	273	6127	7077
34"	832	1778	1778	1794	1384	895	785	500	96	600	1385	273	7367	8447
36"	877	1880	1880	1896	1435	930	825	500	96	600	1475	273	8567	9757
40"	978	♣	♣	♣	1651	1020	905	518	1180	700	1655	710	11420	12870
42"	1023	♣	♣	♣	1689	1055	970	518	118	700	1750	710	13190	14760
46"	1118	♣	♣	♣	1854	1160	1080	518	118	700	1935	710	17100	18840
48"	1169	♣	♣	♣	1930	1205	1130	518	118	700	2010	710	19290	21100
56"	1384	♣	♣	♣	2210	1370	1280	518	118	700	2330	710	29240	31090
60"	1461	♣	♣	♣	2350	1460	1400	660	150	700	2500	1160	34460	36170

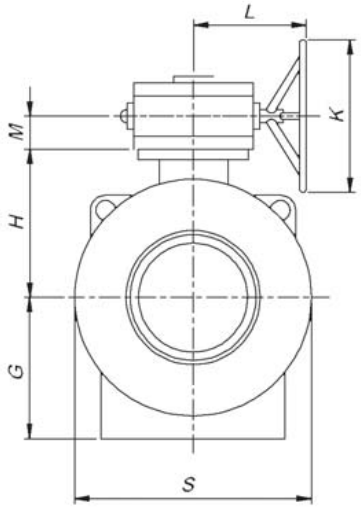
♣ To be confirmed after P/O placement.



TYPE 58	ANSI CLASS 600 (PN 100) Working Pressure 1440 Psi (99 bar) - Hydrostatic Shell Test 2160 Psi (149 bar)													
SIZE	DN	FACE TO FACE			FACE TO FACE WE COMPACT	G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ								WEIGHT	WE	RF/RTJ
6"	152	559	559	562	457	310	215	168	42	250	315	9	230	290
8"X6"X8"	152	660	660	664	457	310	215	168	42	250	410	9	240	290
8"	203	660	660	664	546	350	255	250	50	500	410	28	232	292
10"X8"X10"	203	787	787	791	546	350	255	250	50	500	480	28	290	480
10"	254	787	787	791	597	390	295	250	50	600	480	28	312	392
12"X10"X12"	254	838	838	841	597	390	295	250	50	600	560	28	360	490
12"	305	838	838	841	673	430	345	275	50	600	565	42	478	588
16"X12"X16"	305	991	991	994	775	430	345	275	50	600	695	42	560	690
14"	337	889	889	892	724	480	375	310	66	600	605	57	713	873
16"	387	991	991	994	775	525	415	355	65	600	695	104	1056	1296
20"X16"X20"	387	1194	1194	1200	902	525	415	355	65	600	860	104	1200	1430
18"	438	1092	1092	1095	851	565	460	415	86	600	785	170	1410	1720
20"	489	1194	1194	1200	902	605	495	415	86	600	860	170	1850	2220
24"X20"X24"	489	1397	1397	1407	1067	605	495	415	86	600	1020	170	2100	2500
22"	540	1295	1295	1305	978	650	540	415	75	600	950	178	2502	2982
24"	591	1397	1397	1407	1067	690	575	415	75	600	1020	178	3192	3792
30"X24"X30"	591	1651	1651	1664	1245	690	575	415	75	600	1275	178	3550	4150
26"	635	1448	1448	1461	1130	740	625	500	96	600	1090	273	3867	4587
28"	686	1549	1549	1562	1194	775	660	500	96	600	1170	273	4727	5587
30"	737	1651	1651	1664	1245	830	700	500	96	600	1275	273	5507	6477
36"X30"X36"	737	2083	2083	2099	1435	830	700	500	96	600	1490	273	6200	7200
32"	781	1778	1778	1794	1308	870	740	500	96	600	1335	273	6607	7637
34"	832	1930	1930	1946	1384	900	785	500	96	600	1400	273	7937	9107
36"	876	2083	2083	2099	1435	940	825	518	118	700	1490	710	8790	10070
40"	978	♣	♣	♣	1651	1030	905	518	118	700	1670	710	12330	13890
42"	1022	♣	♣	♣	1689	1070	970	518	118	700	1765	710	14240	15930
46"	1118	♣	♣	♣	1854	1170	1080	518	118	700	1950	710	18440	20320
48"	1168	♣	♣	♣	1930	1215	1130	518	118	700	2030	710	20790	22750
56"	1384	♣	♣	♣	2210	1380	1280	660	150	700	2350	1160	31040	33040
60"	1461	♣	♣	♣	2350	1475	1400	660	150	700	2530	1160	37140	38980

♣ To be confirmed after P/O placement.

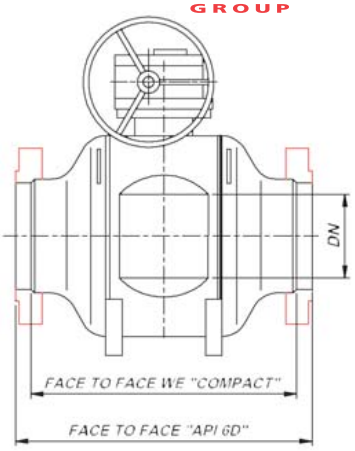


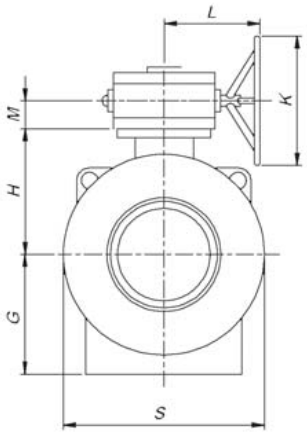


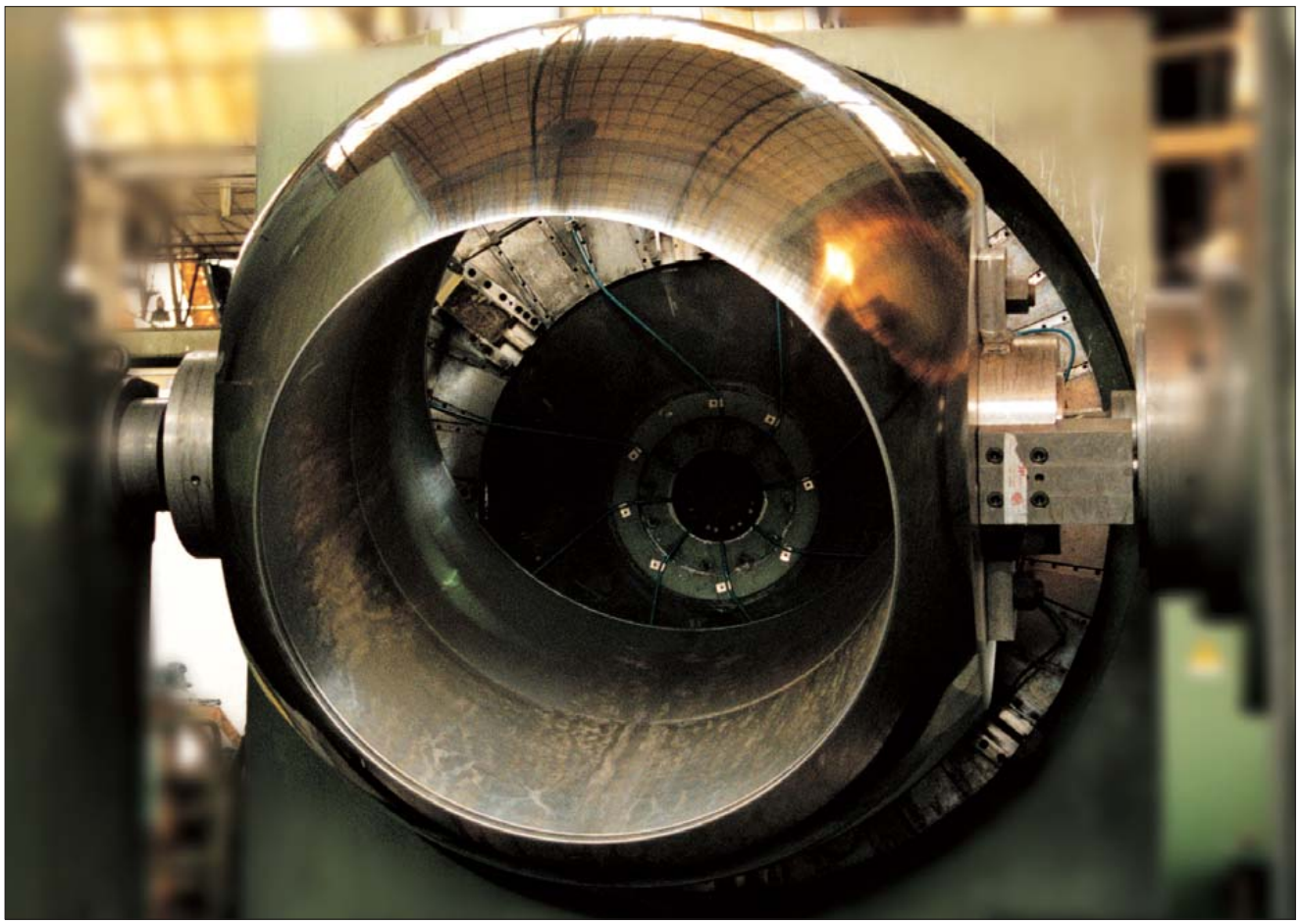
BALL VALVES TYPE 58 (Overall Dimensions)

TYPE 58	ANSI CLASS 900 (PN 150) Working Pressure 2160 Psi (149 bar) - Hydrostatic Shell Test 3240 Psi (223 bar)													
SIZE	DN	FACE TO FACE			FACE TO FACE WE COMPACT	G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ								WEIGHT	WE	RF/RTJ
6″	152	610	610	613	508	330	245	185	50	300	381	15	275	350
8″X6″X8″	152	737	737	740	508	330	245	185	50	300	470	15	300	405
8″	203	737	737	740	597	370	275	250	50	500	470	28	290	360
10″X8″X10″	203	838	838	841	597	370	275	250	50	500	547	28	360	420
10″	254	838	838	841	648	410	320	275	50	500	547	42	370	470
12″X10″X12″	254	965	965	968	648	410	320	275	50	500	610	42	430	560
12″	305	965	965	968	749	460	365	310	66	600	610	57	570	705
16″X12″X16″	305	1130	1130	1140	851	460	365	310	66	600	770	57	690	820
14″	324	1029	1029	1038	800	500	390	355	65	600	680	104	830	1021
16″	375	1130	1130	1140	851	545	430	415	86	600	770	170	1240	1525
20″X16″X20″	375	1321	1321	1334	978	540	430	415	86	600	920	170	1500	1860
18″	425	1219	1219	1232	927	580	490	415	86	600	850	170	1750	2120
20″	473	1321	1321	1334	978	620	530	415	75	600	920	178	2270	2720
24″X20″X24″	473	1549	1549	1568	1143	630	530	415	75	600	1110	178	2655	3400
22″	524	♣	♣	♣	1067	675	560	500	96	600	1030	273	2970	3550
24″	572	1549	1549	1568	1143	715	620	500	96	600	1110	273	3805	4530
30″X24″X30″	572	♣	♣	♣	1321	715	620	500	96	600	1360	273	4500	5200
26″	619	♣	♣	♣	1207	760	670	500	96	600	1200	273	4730	5600
28″	667	♣	♣	♣	1270	790	710	500	96	600	1290	273	5770	6800
30″	714	♣	♣	♣	1321	850	755	518	118	700	1360	710	6285	7460
36″X30″X36″	714	♣	♣	♣	1511	850	755	518	118	700	1635	710	7200	8400
32″	762	♣	♣	♣	1384	910	815	518	118	700	1460	710	7615	8860
34″	810	♣	♣	♣	1448	960	850	518	118	700	1550	710	9220	10640
36″	857	♣	♣	♣	1511	1020	885	518	118	700	1635	710	10790	12335
40″	956	♣	♣	♣	♣	1120	970	518	118	700	1810	710	15065	17000
42″	1006	♣	♣	♣	♣	1200	1060	518	118	700	1900	710	17380	19424
46″	1102	♣	♣	♣	♣	1280	1110	660	150	700	2070	1160	22000	24290
48″	1149	♣	♣	♣	♣	1330	1150	660	150	700	2160	1160	24855	27227

♣ To be confirmed after P/O placement.





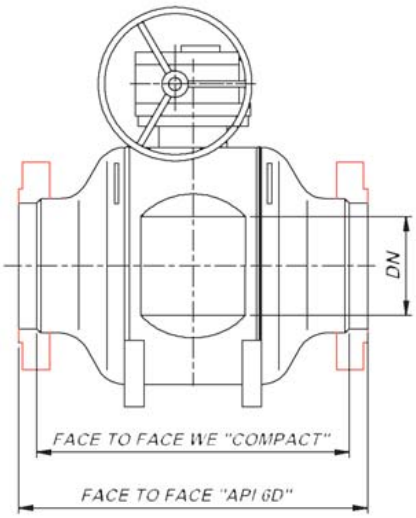


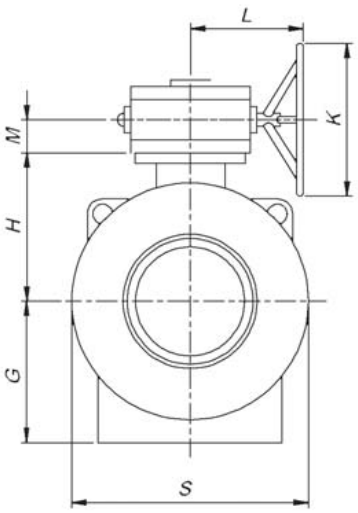
VALVITALIA reserves the right to change design, specification and materials without notice

BALL VALVES TYPE 58 (Overall Dimensions)

TYPE 58	ANSI CLASS 1500 (PN 250) Working Pressure 3600 Psi (248 bar) - Hydrostatic Shell Test 5400 Psi (372 bar)												
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							WEIGHT	WE	RF/RTJ
6"	146	705	705	711	330	280	250	50	500	430	28	320	410
8"X6"X8"	146	832	832	841	330	280	250	50	500	540	28	420	520
8"	194	832	832	841	390	330	250	50	500	540	28	350	440
10"X8"X10"	194	991	991	1000	390	330	250	50	500	655	28	480	610
10"	241	991	991	1000	445	395	310	66	600	655	57	436	550
12"X10"X12"	241	1130	1130	1146	445	395	310	66	600	770	57	560	730
12"	289	1130	1130	1146	500	425	355	65	600	770	104	650	810
16"X12"X16"	289	1384	1384	1407	500	425	355	65	600	990	104	860	1150
14"	318	1257	1257	1276	580	500	355	65	600	680	104	1015	1245
16"	362	1384	1384	1407	640	560	415	86	600	990	170	1515	1860
20"X16"X20"	362	1664	1664	1686	640	560	415	86	600	1180	170	1900	2360
18"	407	1537	1537	1559	705	590	415	75	600	1090	178	2115	2570
20"	451	1664	1664	1686	760	725	500	96	600	1180	273	2656	3200
24"X20"X24"	451	1943	1943	1971	760	725	500	96	600	1425	273	3200	3900
22"	502	♣	♣	♣	840	770	500	96	600	1320	273	3615	4300
24"	534	1943	1943	1971	895	815	500	96	600	1425	273	4620	5490
30"X24"X30"	534	♣	♣	♣	895	815	500	96	600	1480	273	5200	6000
26"	597	♣	♣	♣	975	905	518	118	700	1530	710	5300	6340
28"	641	♣	♣	♣	1040	945	518	118	700	1650	710	6540	7790
30"	686	♣	♣	♣	1070	1035	518	118	700	1730	710	7670	9080
36"X30"X36"	686	♣	♣	♣	1070	1035	518	118	700	1800	710	8700	10200
32"	730	♣	♣	♣	1165	1060	518	118	700	1870	710	9270	10760
34"	775	♣	♣	♣	1230	1140	518	118	700	1985	710	11200	12890
36"	819	♣	♣	♣	1310	1180	518	118	700	2100	710	13000	14920

♣ To be confirmed after P/O placement.





TYPE 58	ANSI CLASS 2500 (PN 420) Working Pressure 6000 Psi (420 bar) - Hydrostatic Shell Test 9000 Psi (630 bar)												
SIZE	DN	FACE TO FACE			G	H	L	M	K	S	GEAR	BARE STEM VALVE WEIGHT	
inches		WE	RF	RTJ							WEIGHT	WE	RF/RTJ
8"	181	1022	1022	1038	385	395	310	66	600	660	67	1660	1970
10"	225	1270	1270	1292	435	465	355	65	600	790	104	2490	2990
12"	267	1422	1422	1445	500	525	415	86	600	870	170	3450	4130
14"	311	1575	1575	1597	580	630	415	75	600	990	178	4260	5090
16"	352	1683	1683	1702	670	720	641	96	600	1100	273	5140	6160
18"	397	♣	♣	♣	740	810	641	96	600	1215	273	7200	8630

♣ To be confirmed after P/O placement.



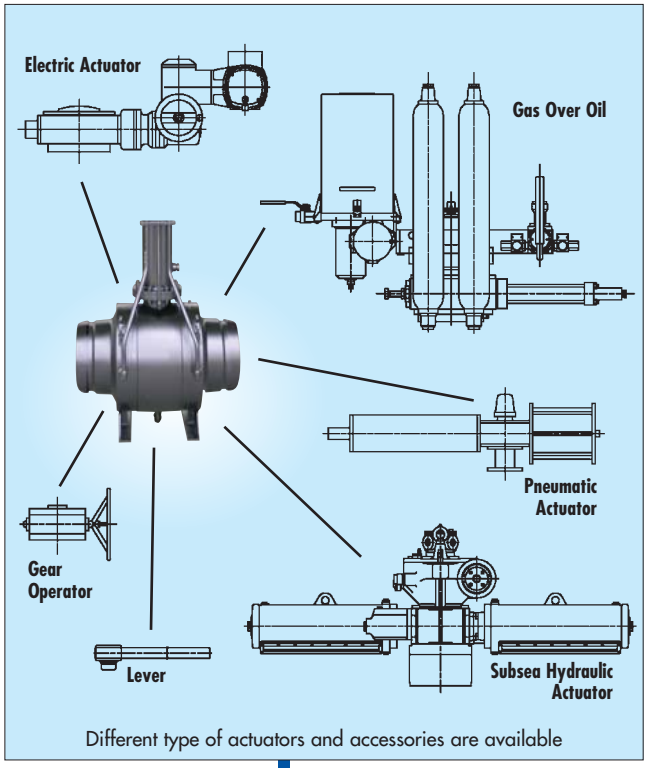


SPECIAL APPLICATIONS



Underground Installation

- Stem extension can be required for VALVITALIA ball valve.
- This feature permits use of valves in remote area, e.g. for underground installation.
- VALVITALIA can provide any kind of stem extension, with piping and fittings suitable to raise the body drain, the body vent and the emergency sealant injection fittings up the stand floor.



Different type of actuators and accessories are available

Operating Unit



Subsea service

- Special materials and protective overlays for extended life of service.
- Reliable product in order to provide long lasting service without maintenance.
- Additional sea water gaskets protect stem and external sealing areas.
- Special protective coatings.



Cryogenic service

- Use range up to minus 196 °C.
- Assure the maneuverability at low temperature.
- Materials and dimensions are specially designed to suit low temperature.



Gas test facilities

VALVITALIA reserves the right to change design, specification and materials without notice

A Long Experience in Energy Equipment and one Goal:

The Customer's satisfaction.



Pavia Plant

Valvitalia S.p.A.
Via Tortona, 69
27055 Rivanazzano (PV) - Italy
Phone +39.0383.945911
Fax +39.0383.9459962
e-mail: info@valvitalia.com
www.valvitalia.com



Padova Plant

Valvitalia S.p.A.
TGT Tormene Gas Technology Division
Via Campolongo, 97
35020 Due Carrare (PD) - Italy
Phone +39.049.9199611
Fax +39.049.9125455
e-mail: info.tgt@valvitalia.com
www.valvitalia.com

VALVITALIA GROUP

VALVITALIA S.p.A.
Via Tortona, 69 - 27055 Rivanazzano (PV) Italy
Phone: +39.0383.945911 - Fax: +39.0383.9459962
E-mail: info@valvitalia.com
Web site: www.valvitalia.com

03.09 - 1000 - TGT.FW.05