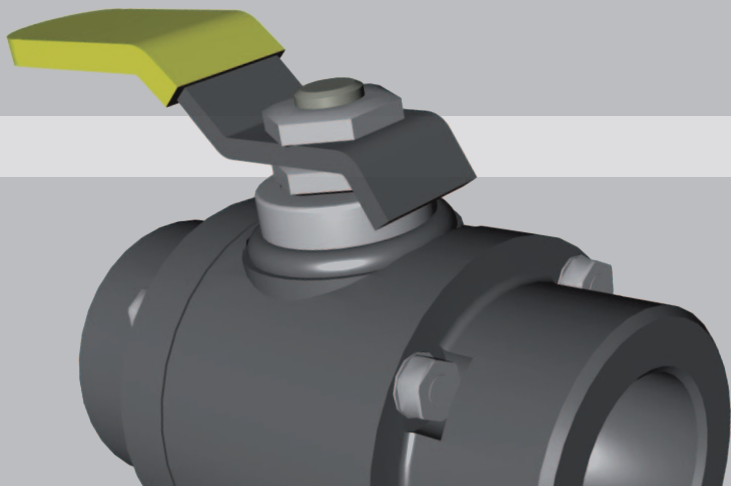
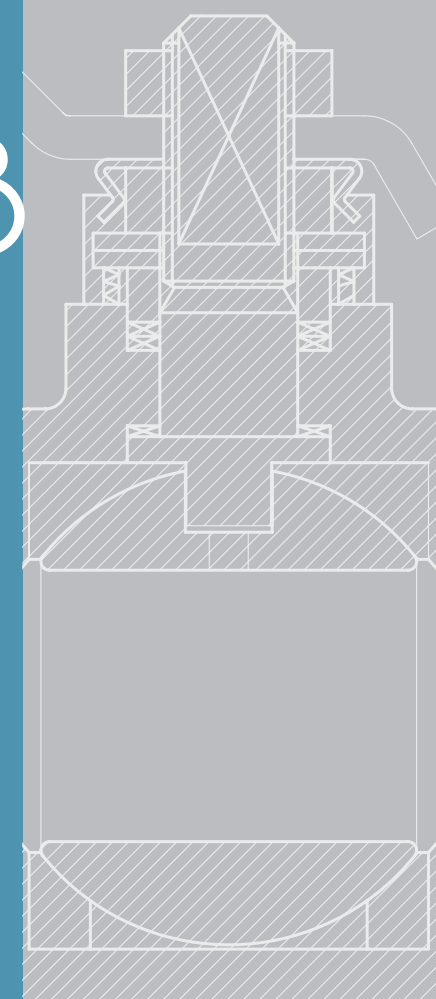
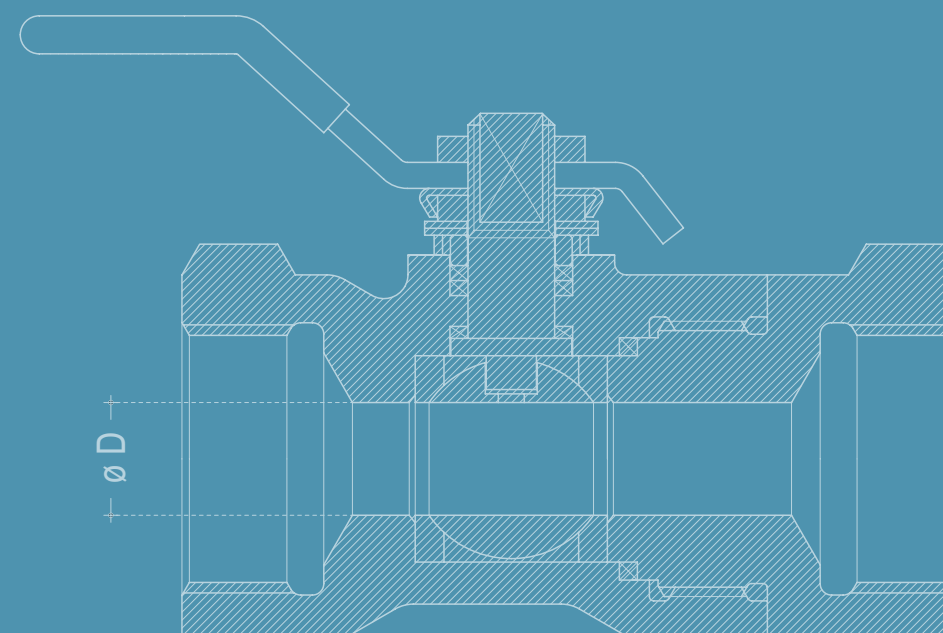
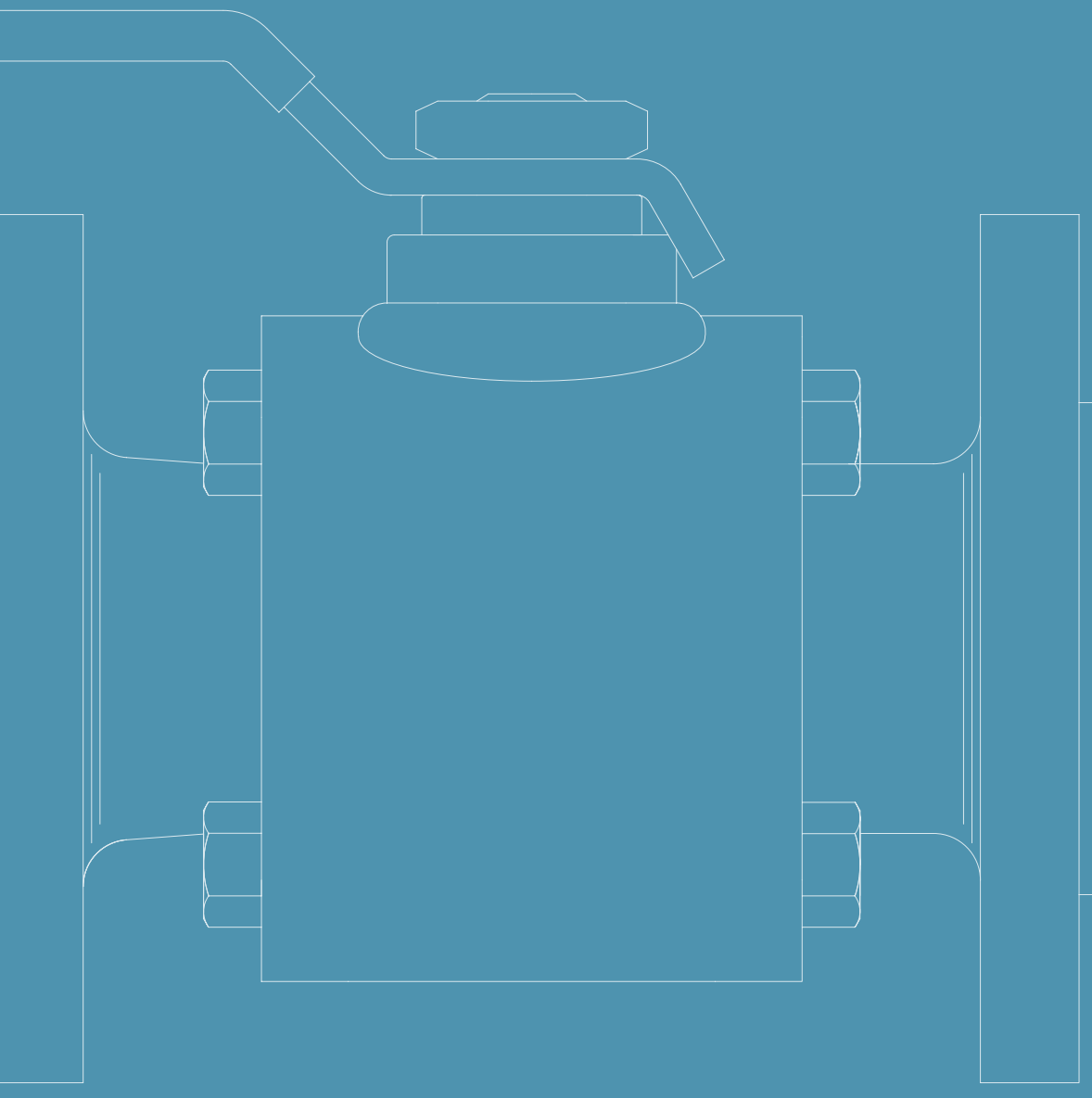




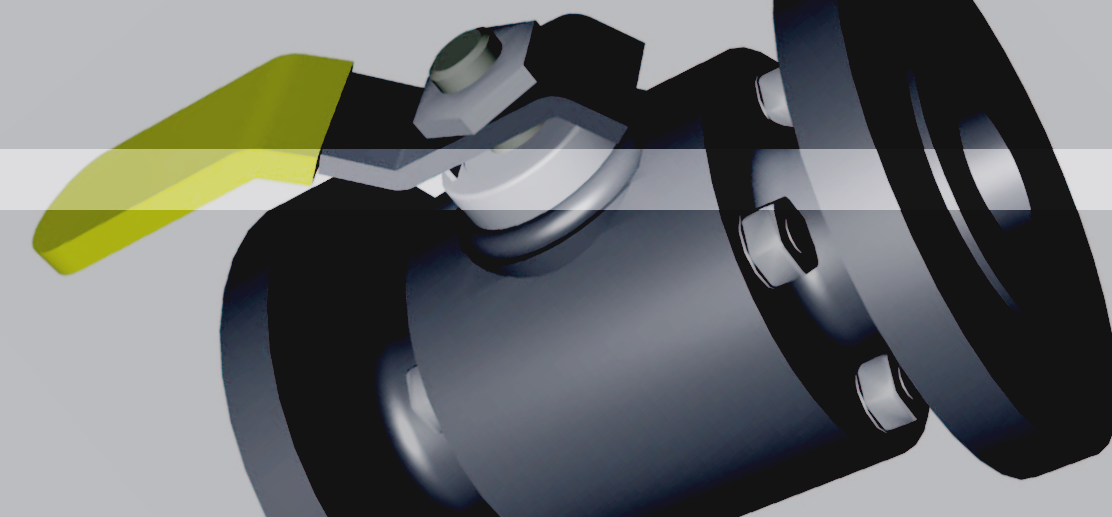
BALL VALVES

BALL VALVES 158

Mod.	GS60	pag.	162
Mod.	GS61	pag.	164
Mod.	GS62 RB/FB	pag.	166
Mod.	GS64 FLANGED END	pag.	168
Mod.	GS63 SW/SE/BW	pag.	170



THE ANSWER TO PROBLEMS OF: CORROSION, ABRASION, CLOGGING, CONTAMINATION, VACUUM & GAS HANDLING



G&O Ball valves, produced in ductile iron, stainless steel and special alloys, are utilised in various industrial fields for fluid control, in bith gas and liquid form, in all sectors of plant engineering, cosmetics, detergents, food industry, electric energy, pharmaceutical, gas and GPL, chemical plants, petrochemical plants, oil, heating/air conditioning and in all markets worldwide as also on ships, ferries and marine oil platform.



PRODUCT FEATURES

- Single, two, three pieces & Trunion mounted type
- Reduce & Full bore type
- Flanged, SW, BW & Screwed ends connections
- Class 150, 300, 600, 900 & 1500
- Size from 1/4" through 30"
- Manual lever, Manual Gear, pneumatic and electric operated

PERFORMANCE FEATURES

- Perfect resistance to chemical corrosion and abrasion
- No maintenance
- Long durability
- Surface protection for steel Valves, Black Stoving Enamel external coating/ Base phosphating. Additional external coating: Smoke Grey Synthetic Enamel

BODY VALVE MATERIALS

- ASTM A105, ASTM A350 LF2, ASTM A216 WCB, ASTM A352 LCB
- ASTM A182 F304, F316, ASTM A351 CF8, CF8M, CF3, CF3M
- ASTM A890 CD4MCu, ASTM A351 CN7M
- HB HAST-B
- HC HAST-C
- SS904L (UB6) - PVDF, PPH

TRIM VALVE MATERIALS

- ASTM A276 type 410,304,316,304L, 316L
- CDM A890 CD4MCu
- AL20 A351 CN7M
- 174 17-4 PH
- MONEL 400
- HB HAST-B
- HC HAST-C
- SS904L (UB6) - PVDF, PPH

SEAT VALVE MATERIAL

- PTFE
- GFT
- CFT
- METAL
- PEEK
- NYLON

DESIGN/TESTING APPLICABLE STANDARD

- BS EN ISO 17292 (BS 5351)
- EN 12266-1

END CONNECTIONS APPLICABLE STANDARD

- ANSI/ASME B16.5 Flanged Valves
- ANSI/ASME B16.1 Flanged Fittings
- ANSI/ASME B1.20.1 (NPT)Pipe Threads
- ANSI/ASME B16.34 Steel Valves
- ANSI/ASME B16.11 Socketweld Fittings
- ANSI/ASME B16.25 Buttweld Ends

CERTIFICATES AVAILABLE

- EN 10204 3.1.B - EN 10204 2.2 - LP/MP TESTS - GHOST-R

INSPECTION TESTS AVAILABLE BY

- SGS GLOBAL TRADE SOLUTIONS
- ITS INTERTEK TESTING SERVICES
- BV BUREAU VERITAS

MAIOR MARKETS SERVED

- | | | |
|--------------------|----------------|-------------------|
| - Chemical process | - Mining | - Pharmaceutical |
| - Power generation | - Pulp & Paper | - Food & Beverage |
| - Water treatment | - Nuclear | - Bioprocess |

OPTIONS

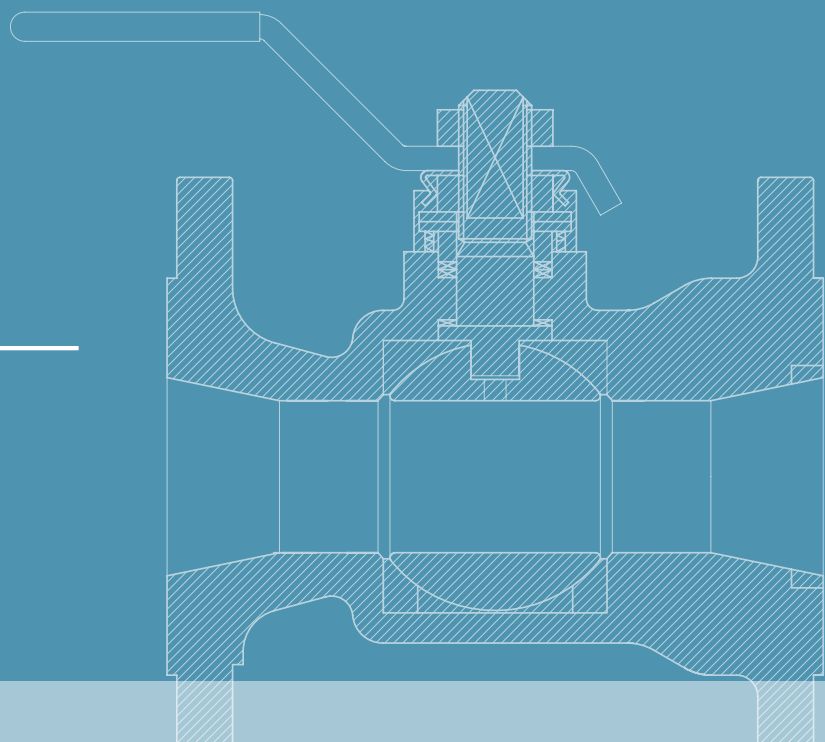
- Limit switches
- Solenoid valve
- Position Indicator
- Air filter regulator
- 3:15 PSI positioner
- 4:20mA electropneumatic positoner or 4:20mA electronic transmitter of position 30°-90°angle
- Triphase AC motor

G&O SERIES PNEUMATIC ACTUATORS

Piston type air operators line offer a great solution to a wide range of actuation situations. They are exclusively designed to G&O series butterfly valves and can be mounted in any position. These actuators are built in aluminium and are available in three options:

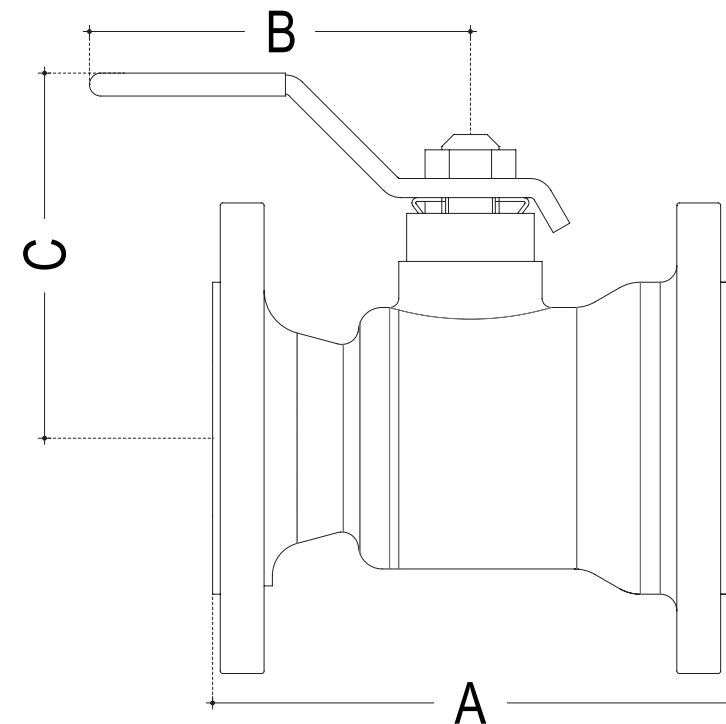
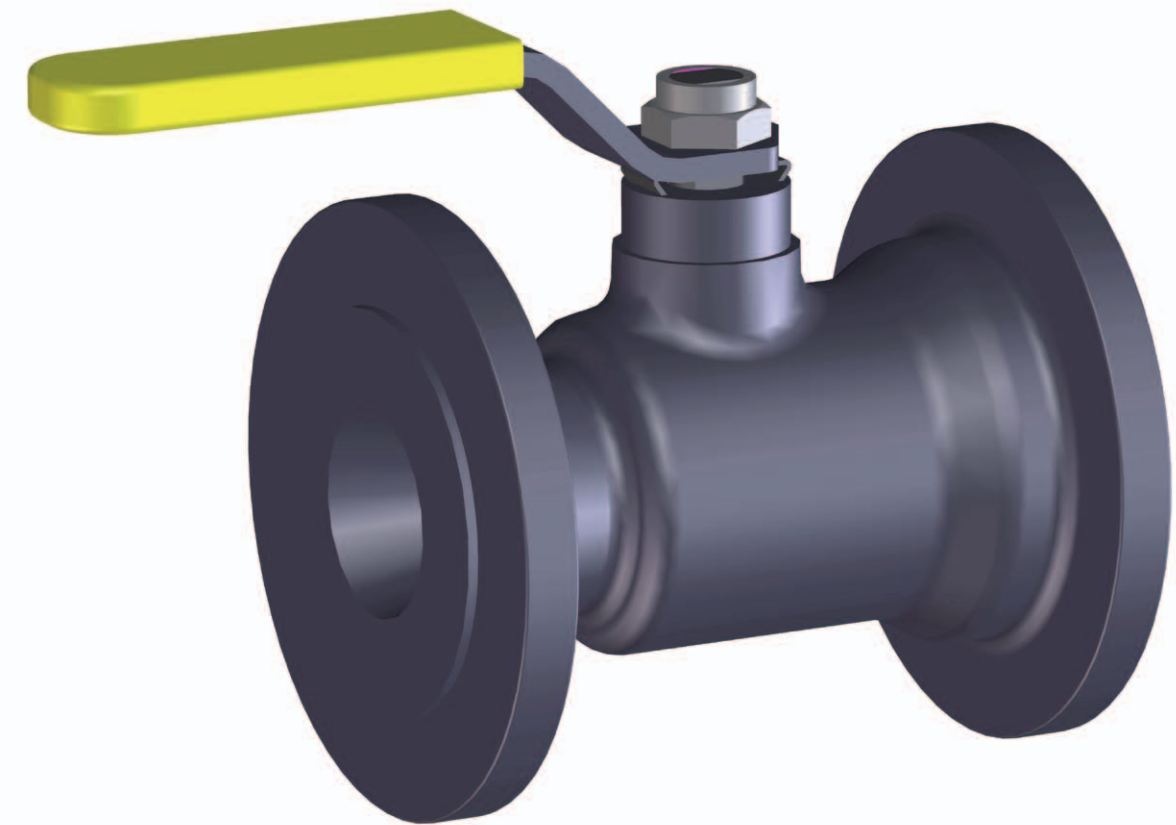
- single effect acting - fail to close (air to open)
- single effect acting - fail to open (air to close)
- double effect acting - fail to open & fail to close

Single effect acting actuators are fitted by an extractable hand-wheel for security.



Model GS60

LEVER OPERATED BALL VALVES SINGLE PIECE

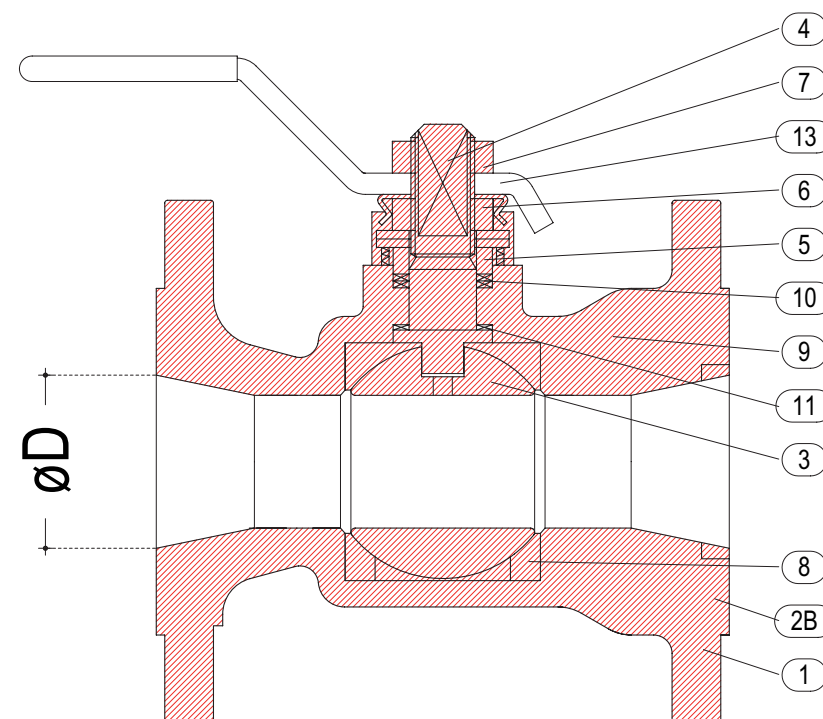


DETAILS

1	BODY
2B	BODY INSERT
3	BALL
4	STEM
5	GLAND
6	GLAND NUT
7	LEVER NUT
8	SEAT
9	BODY SEAL
10	STEAM SEAL
11	STEM WASHER
13	LEVER

WEIGHT KG 150 Rb

1,50
1,80
2,60
3,10
4,50
7,60
9,80
15,30
22,50
38,00
67,50
113,50



Ball Valve Class 150 Rb single piece Flanged ends

DN	A	B	C	ØD
15	108	120	80	13
20	117	145	85	20
25	127	145	90	25
32	140	175	105	32
40	165	175	110	38
50	178	300	135	50
65	190	475	155	64
80	203	475	170	76
100	229	575	205	98
150	267	775	#	152
200	292	#	#	203
250	330	#	#	250

Ball Valve Class 300 Rb single piece Flanged ends

DN	A	B	C	ØD
15	140	120	80	13
20	152	145	85	20
25	165	145	90	25
32	178	175	105	32
40	190	175	110	38
50	216	300	135	50
65	241	475	155	64
80	283	475	170	76
100	305	575	205	98
150	403	775	#	152
200	419	#	#	203
250	457	#	#	250

WEIGHT KG 300 Rb kg

2,50
3,50
4,50
7,20
9,00
11,00
16,20
24,40
38,00
68,50
140,00
173,00

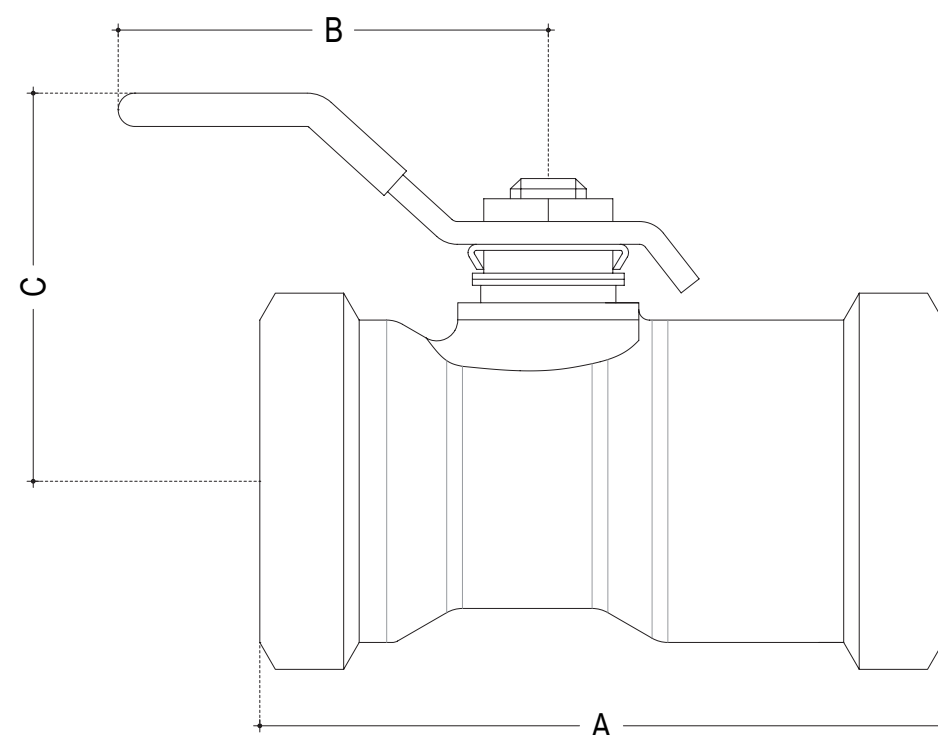
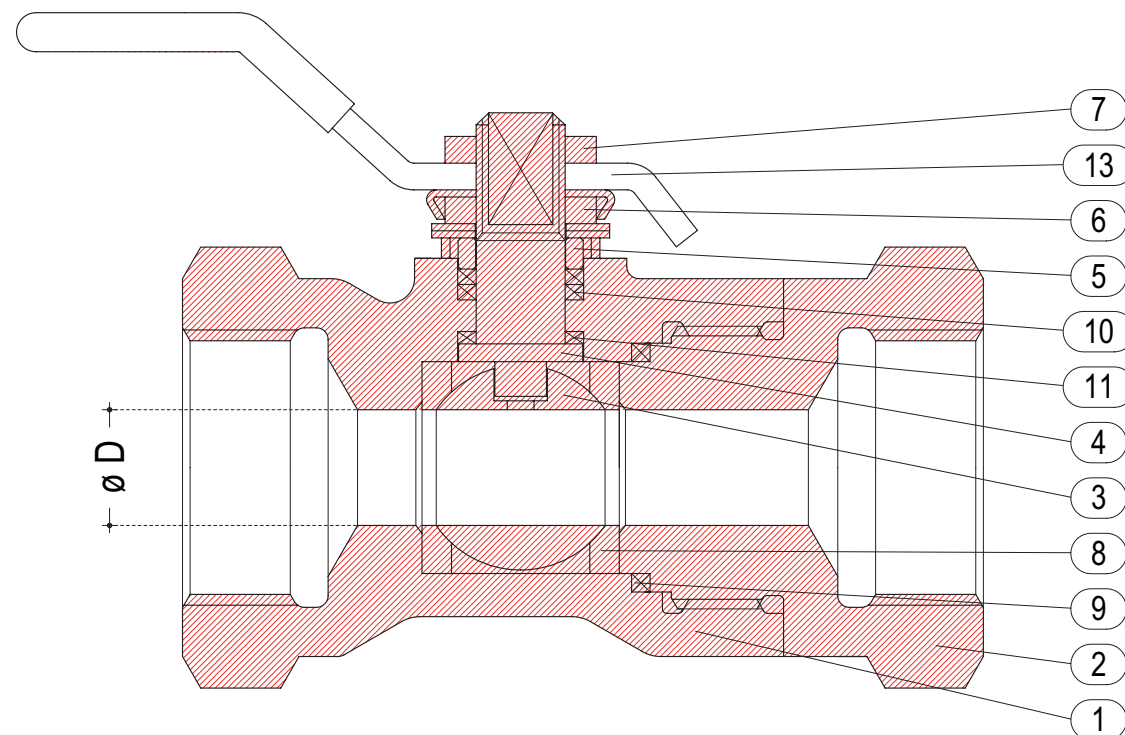
TEST PRESSURE IN BAR

CLASS	150	300
HYD SHELL	30	76
SEAT/BACK SEAT	Refer technical	Refer technical Data
AIR SEAT	6.9	6.9

- Gear operated for sizes 200 to 250
- Valves can be supplied with Pad-Lock, electrical, pneumatic actuators
- Valves can be supplied to suit ASME/BS/DIN Flanges

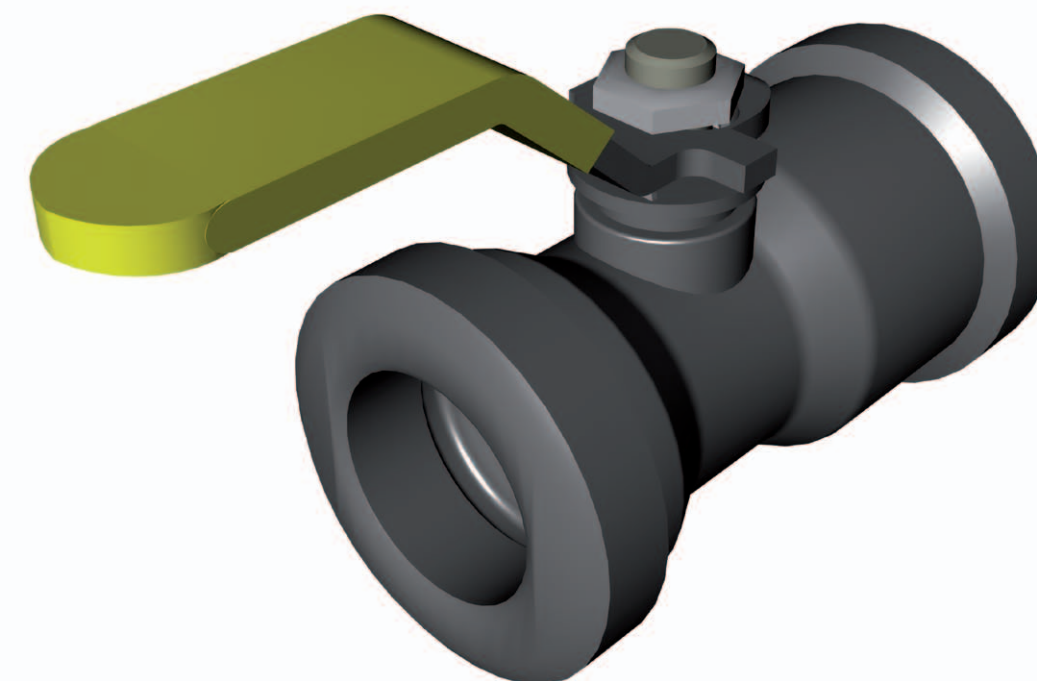
Model GS61

LEVER OPERATED BALL VALVES SINGLE PIECE



DETAILS

1	BODY
2	BODY INSERT
3	BALL
4	STEM
5	GLAND
6	GLAND NUT
7	LEVER NUT
8	SEAT
9	BODY SEAL
10	STEM SEAL
11	STEM WASHER
13	LEVER



Ball Valve Class 600 Fb single piece Screwed ends

DN	A	B	C	ØD
8	70	120	76	09/08
10	70	120	76	9
15	80	120	76	11
20	90	120	80	13
25	110	145	86	20
32	115	145	93	25
40	125	175	110	32

WEIGHT KG 600 Fb

0,50
0,50
0,50
0,80
1,30
3,00
3,20
3,80

Ball Valve Class 600 Rb single piece Screwed ends

DN	A	B	C	ØD
8	70	120	76	8
10	70	120	76	09/08
15	70	120	76	9
20	80	120	76	11
25	90	120	80	13
32	110	145	86	20
40	115	145	93	25
50	125	175	110	32

WEIGHT KG 600 Rb

0,50
0,50
0,50
0,80
1,30
3,00
3,20
3,80

Ball Valve Class 800 Rb single piece Screwed ends

DN	A	B	C	ØD
8	70	110	51	9,5
10	70	110	51	9,5
15	70	110	51	9,5
20	80	110	54	13
25	90	110	61	15
32	110	150	66	19
40	115	150	70	25
50	125	174	93,5	32

WEIGHT KG 800 Rb

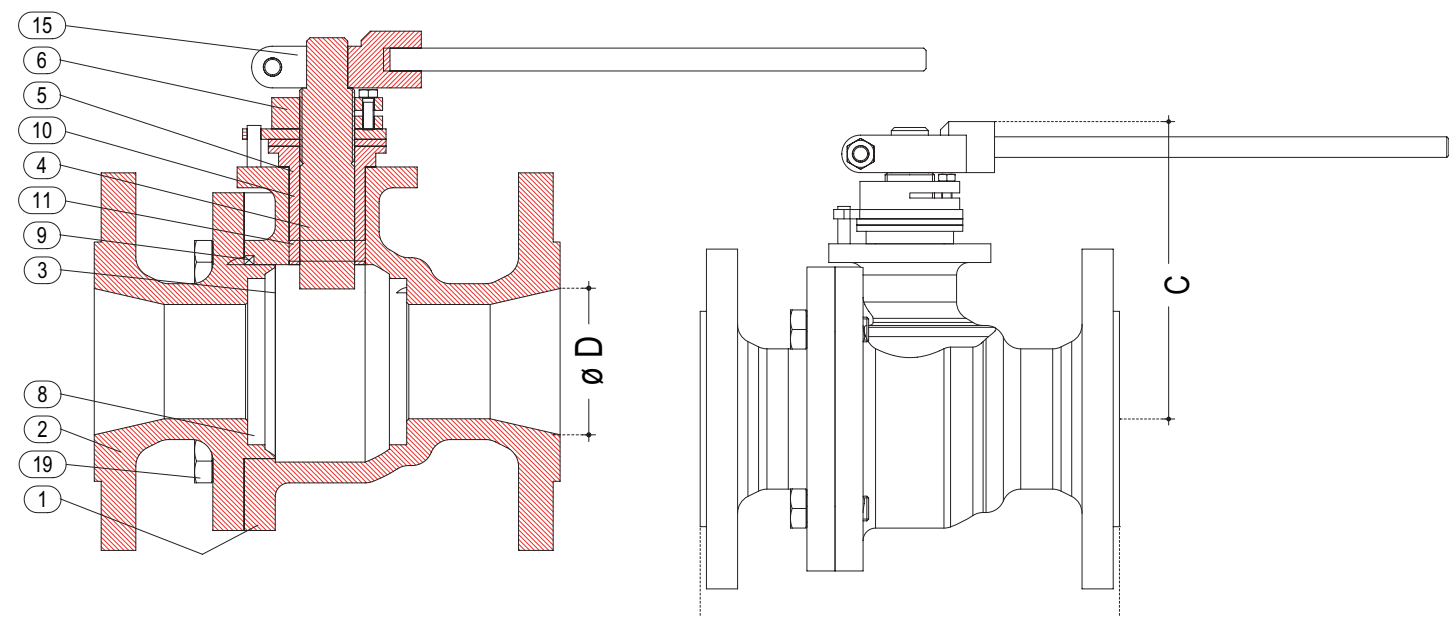
0,50
0,50
0,50
0,80
1,30
3,00
3,20
3,80

TEST PRESSURE IN BAR

CLASS	600	800
HYD SHELL	150	207
SEAT/BACK SEAT	Ptfe 69 Cft 76	Refer technical Data
AIR SEAT	6.9	6.9

Model GS62 RB/FB

LEVER OPERATED BALL VALVES TWO PIECES



Ball Valve Class 150
Two piece reduced & full bore

DN	A	C	ØD
15	108	80	13
20	117	85	20
25	127	90	25
32	140	105	32
40	165	110	38
50	178	135	50
65	190	155	64
80	203	170	76
100	229	205	98
150	267	#	152
200	292	#	203
250	330	#	250
300	356/610 ²	#	300

WEIGHT KG
150 Rb

1,20
1,60
2,30
3,40
4,80
6,80
10,50
16,50
24,00
40,00
73,00
122,00
146,00

WEIGHT KG
150 Fb

1,30
2,00
2,70
3,80
5,00
8,20
15,50
18,50
32,00
58,00
95,00
153,00
290,00

DETAILS

1	BODY
2	END PIECE
3	BALL
4	STEM (ANTI BLOW OUT)
5	GLAND
6	GLAND NUT
8	SEAT
8A	SEAT SEAL
9	BODY SEAL
10	STEAM SEAL
11	STEM WASHER
15	LEVER ADAPTER
19	HEX SCREW

TEST PRESSURE IN BAR

CLASS	150	300	600	900	1500
HYD SHELL	30	76	155	236	392
SEAT	Refer Technical data				
MIN. SEAT	6,9	6,9	6,9	6,9	6,9

Ball Valve Class 600
Two piece reduced & full bore

DN	A	C	Ø D
15	165	80	13
20	190	85	20
25	216	90	25
32	229	105	32
40	241	110	38
50	292	135	50
65	330	155	64
80	356	170	76
100	432	205	98
150	559	#	152

WEIGHT KG
600 Rb

3,20
4,80
6,50
8,40
13,00
16,00
25,00
33,00
65,00
85,00

WEIGHT KG
600 Fb

3,30
5,00
6,70
9,00
14,00
21,00
30,00
38,00
90,00
-

- Gear operated for sizes 150
- Valves can be supplied with Pad-Lock, electrical, pneumatic actuators
- Valves can be supplied to suit ASME/BS/DIN Flanges

Ball Valve Class 900 & 1500
Two piece reduced & full bore

DN	A	C	Ø D
15	216	80	13
20	229	85	20
25	254	90	25
32	280	105	32
40	305	110	38
50	368	135	50
65	419	155	64

WEIGHT KG
900 Rb

4,60
6,50
8,80
12,50
20,00
27,00
40,00

WEIGHT KG
900 Fb

4,90
7,10
13,00
21,00
28,00
31,00
50,00

WEIGHT KG
1500 Rb

5,00
7,50
10,00
16,00
23,00
32,00
-

WEIGHT KG
1500 Fb

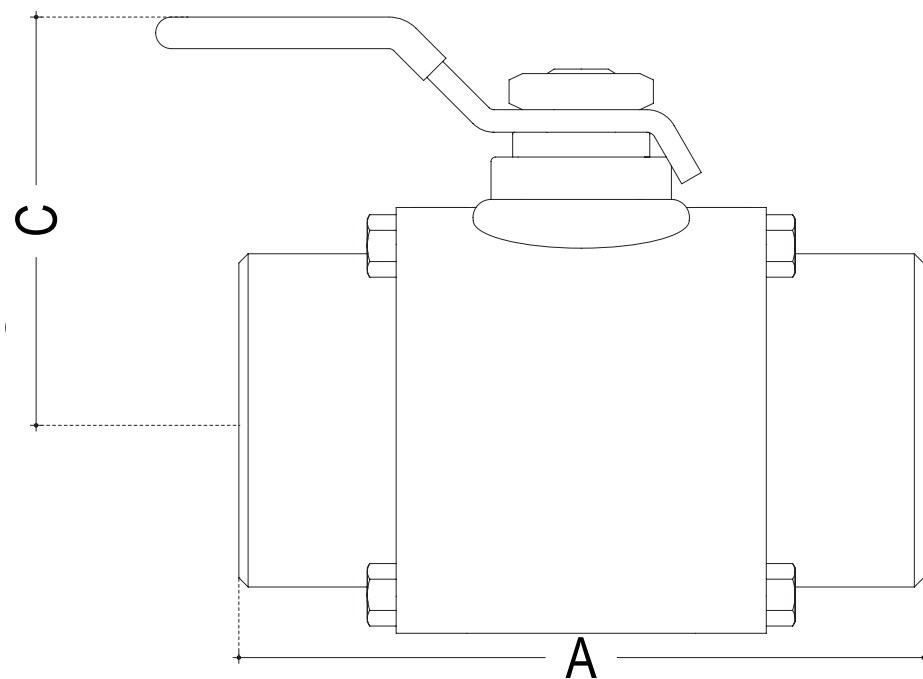
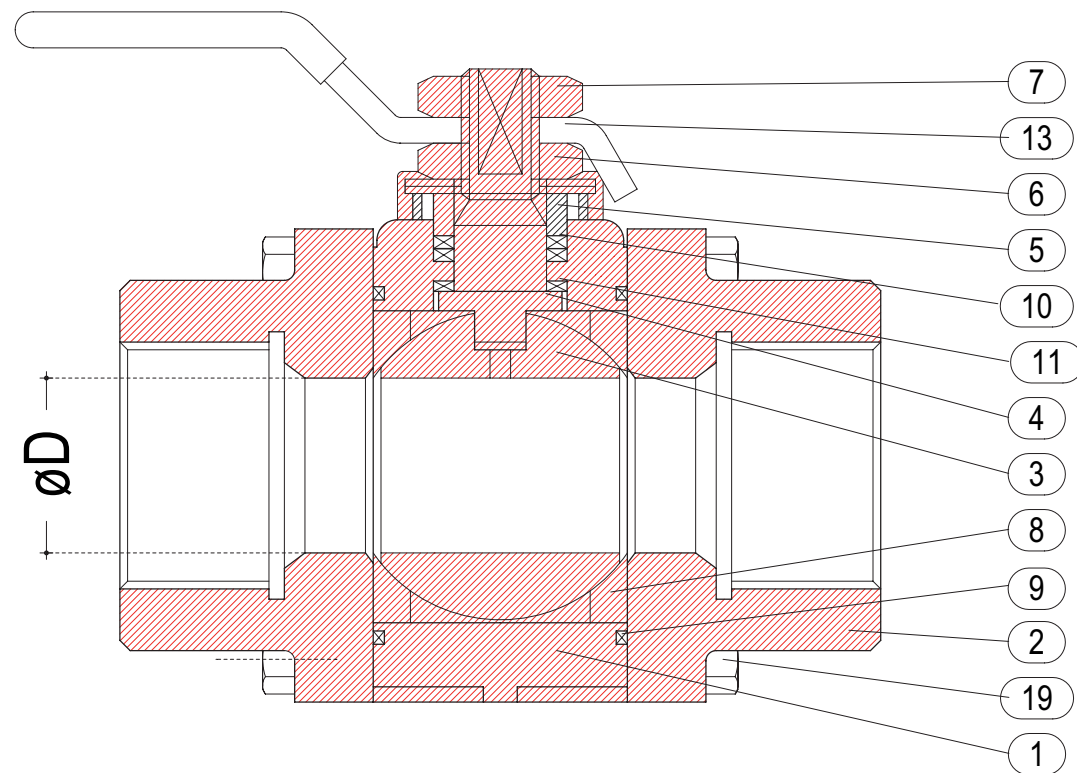
6,00
9,50
14,00
23,00
29,00
-
-

- Gear operated for sizes 150 to 300
- Valves can be supplied with Pad-Lock, electrical, pneumatic actuators
- Valves can be supplied to suit ASME/BS/DIN Flanges



Model GS63 SW/SC/BW

LEVER OPERATED BALL VALVES THREE PIECE



DETAILS	
1	BODY
2	END PIECE
3	BALL
4	STEM (ANTI BLOW OUT)
5	GLAND
6	GLAND NUT
7	LEVER NUT
8	SEAT
9	BODY SEAL
10	STEAM SEAL
11	STEM WASHER
13	LEVER
19	HEX SCREW



Ball Valve Class 600-800
Three piece Reduced bore
Screwed,Socket & Butt Weld

DN	A	C	Ø D
10	64	80	11
15	64	80	11
20	70	85	13
25	88	90	20
32	105	105	25
40	114	110	32
50	130	135	38

WEIGHT
KG

0,70
0,70
0,90
1,60
2,20
3,50
4,90

• Valves can be supplied with Pad-Lock,
electrical, pneumatic actuators

Ball Valve Class 600-800
Three piece Full bore
Screwed,Socket & Butt Weld

DN	A	C	Ø D
10	64	80	11
15	64	80	11
20	75	85	13
25	88	90	20
32	105	105	25
40	114	110	32
50	145	135	38

WEIGHT
KG

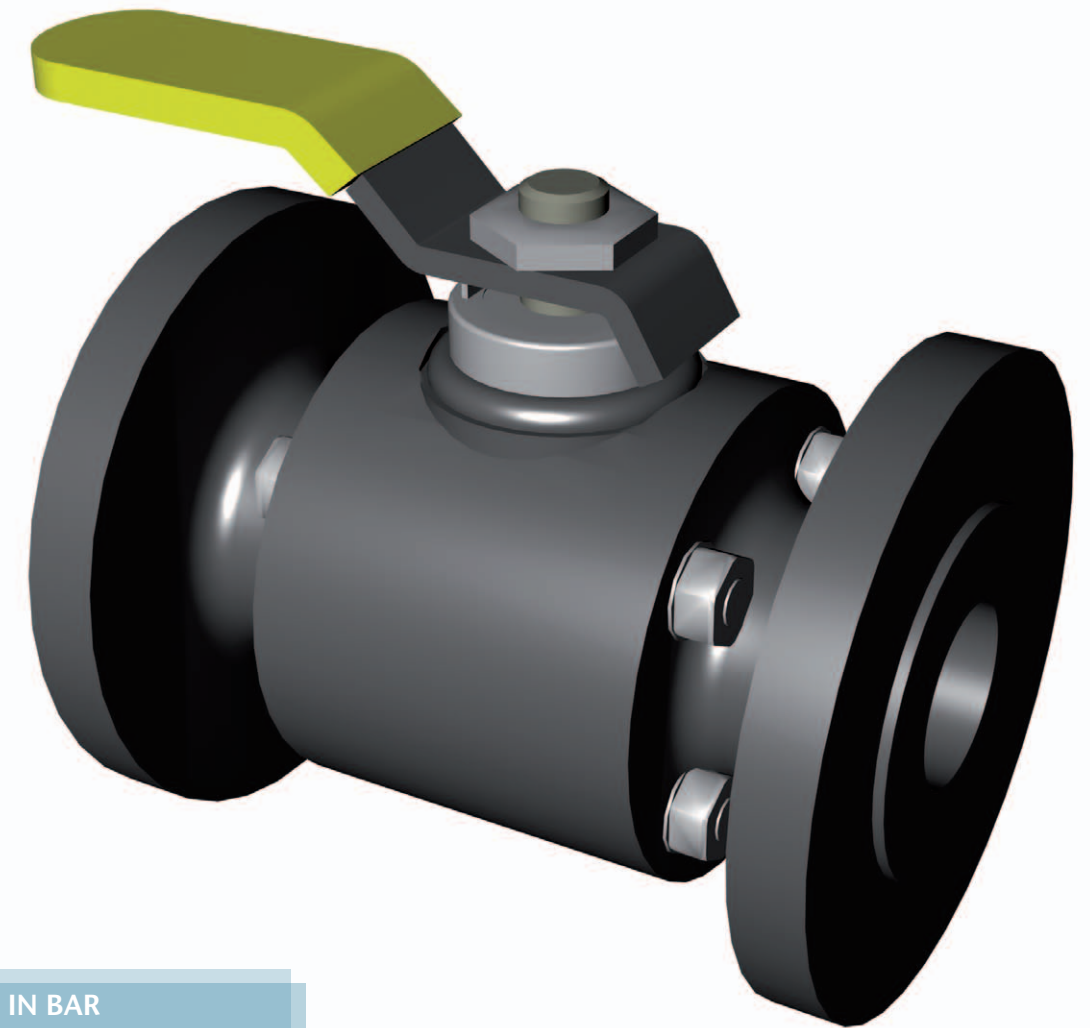
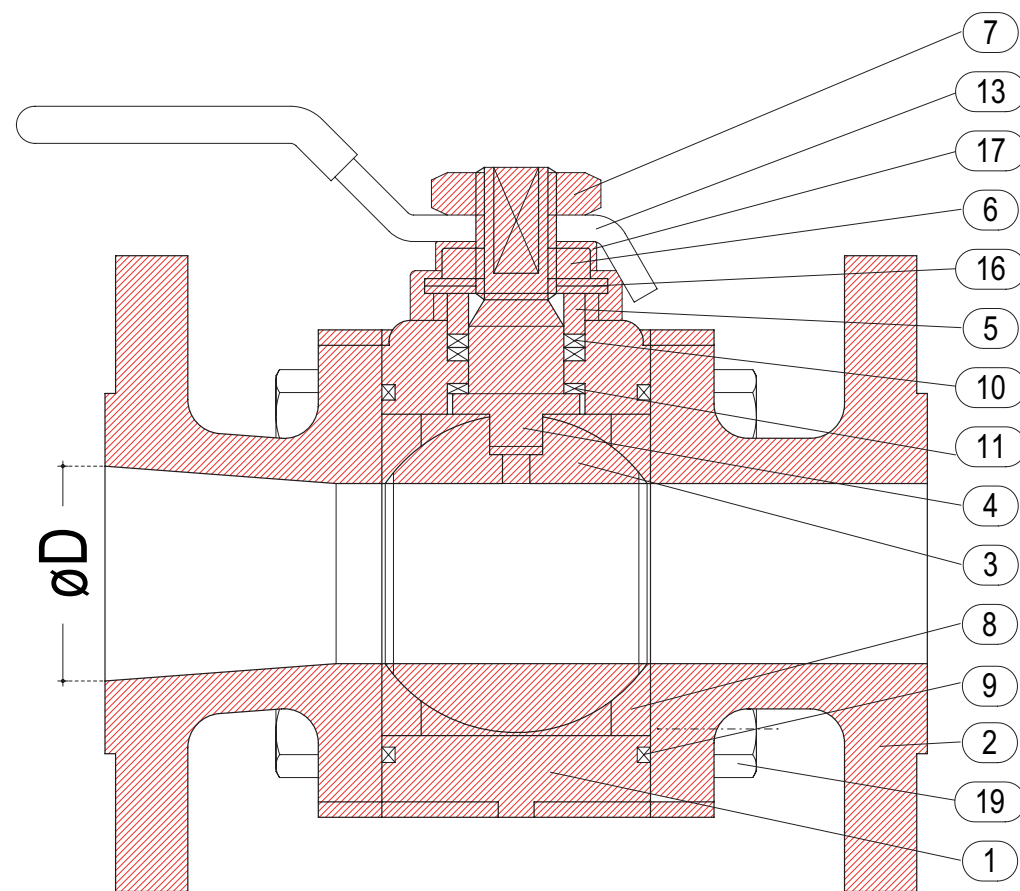
0,70
0,80
1,50
2,00
3,10
4,70
8,50

TEST PRESSURE IN BAR

CLASS	600	800
HYD SHELL	150	207
SEAT/BACK SEAT	Refer technical	Refer technical
AIR SEAT	6.9	6.9

Model GS64 FLANGED END

LEVER OPERATED BALL VALVES THREE PIECES



TEST PRESSURE IN BAR

CLASS	150	300
HYD SHELL	30	76
SEAT/BACK SEAT	Refer technical	Refer technical
AIR SEAT	6.9	6.9

Ball Valve Class 150 Three piece reduced & full bore, Flanged ends

DN	A	C	Ø D
15	108	80	13
20	117	85	20
25	127	90	25
32	140	105	32
40	165	110	38
50	178	135	50

WEIGHT KG 150 Rb

1,50
1,70
2,60
3,80
5,70
8,20

WEIGHT KG 150 Fb

1,70
2,50
2,90
4,20
6,50
9,50

Ball Valve Class 300 Three piece reduced & full bore, Flanged ends

DN	A	C	Ø D
15	140	80	13
20	152	85	20
25	165	90	25
32	178	105	32
40	190	110	38
50	216	135	50

WEIGHT KG 300 Rb

2,40
3,30
4,30
5,10
9,30
11,20

WEIGHT KG 300 Fb

2,70
3,80
4,90
6,80
10,20
14,50

- Valves can be supplied with Pad-Lock, electrical, pneumatic actuators
- Valves can be supplied to suit ASME/BS/DIN Flanges

DETAILS	
1	BODY
2	END PIECE
3	BALL
4	STEM
5	GLAND
6	GLAND NUT
7	LEVER NUT
8	SEAT
9	BODY SEAL
10	STEAM SEAL
11	STEM WASHER
13	LEVER
19	HEX SCREW

