



Trunnion Ball Valves

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SRI Profile

Founded in Marseille, France in 1978, SUD ROBINETTERIE INDUSTRIE, SRI group, started out as a trading company servicing French oil and gas companies and becoming an expert in securing shutdowns in local refineries.

In the early 1990's, SRI started manufacturing their own trunnion mounted and floating ball valves. Product range diversified to include gate, globe and check valves when SRI took over Vannes Rigau located in Lomme near Lille, France in 2005. SRI now manufactures a wide range of valves for several applications (engineering needs).

International development started within Europe and Africa, then the Middle East, Central and Far East Asia, to finally reach into Central and South America. Today 80% of SRI's total production is exported for Onshore and Offshore activities.

SRI is a qualified supplier for several worldwide and national companies including end-users and EPC contractors. SRI products are used in petroleum exploration and production, gas, refining, chemical and petrochemical plants, power generators, and mining.

SRI is increasing capacity by building a new facility in Marseille and, as always, SRI products meet the highest quality standards.



Side-Entry

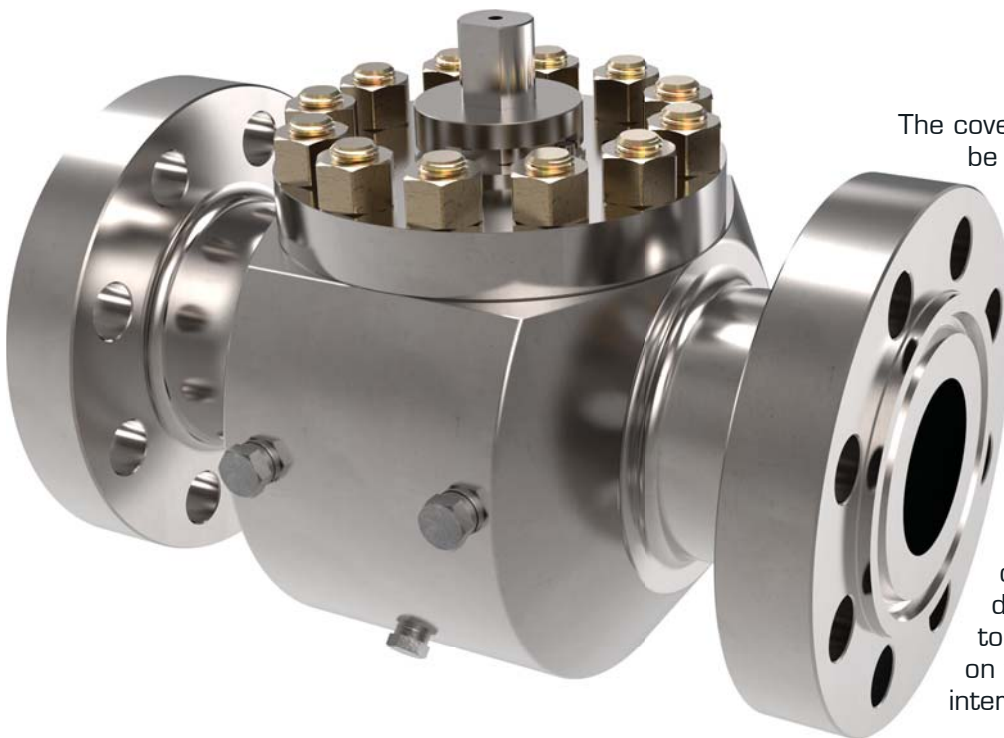


The side-entry ball valve is the most common and popular design.

Based on a great modularity, SRI can build for you a side-entry ball valve with special options, as connection ends, special bore diameter, etc.

In case of maintenance operation, all parts of the valve can be replaced, so valve lifetime is extended.

Top-Entry



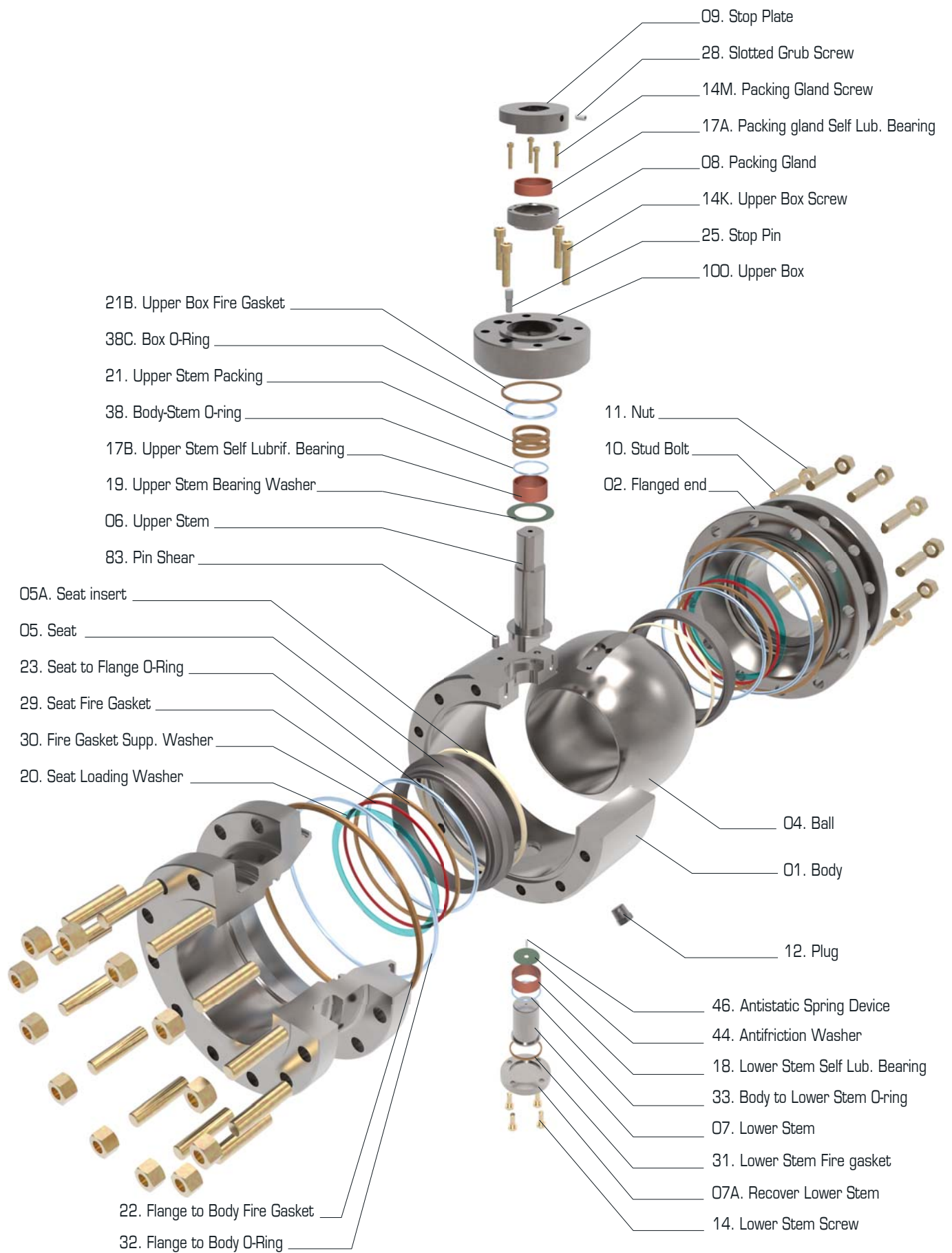
The cover of top-entry ball valve can be disassembled from the body of the valve, so all parts can be easily maintained or replaced in-line.

On demand, stem and ball can be made on the same part. This option will increase reliability of the valve.

This construction allows more flexibility in customization of driving train design. Allowing for example to fit directly an actuation on the valve bonnet without intermediate bracket.

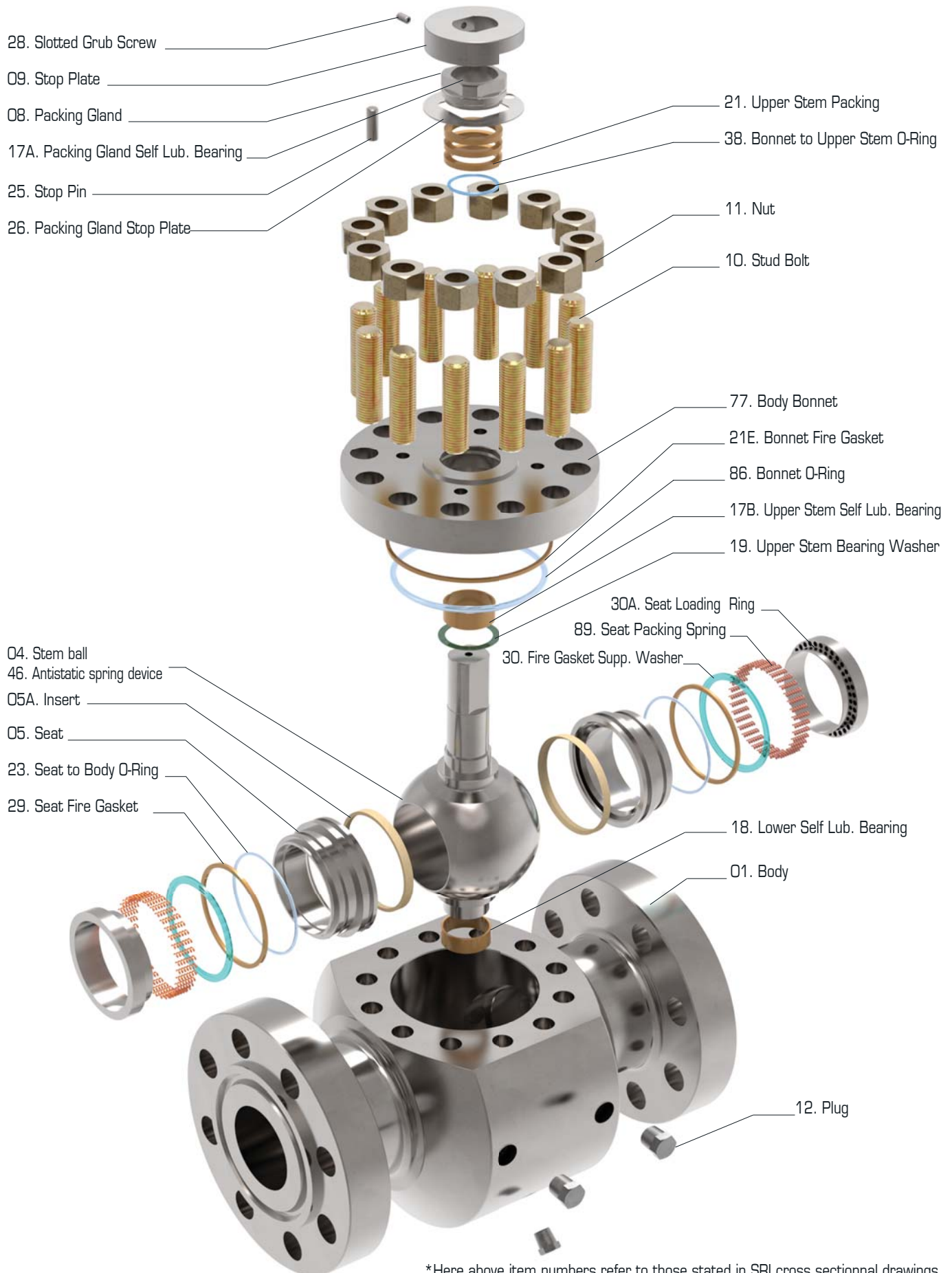
For other SRI trunnion products see pages 21 to 23.

Side Entry Ball Valve



*Here above item numbers refer to those stated in SRI cross sectionnal drawings.

Top Entry Ball Valve



*Here above item numbers refer to those stated in SRI cross sectionnall drawings.

	Design features	SRi Trunnion Ball Valve
Construction	API6D/6A design and construction	✓
	Antistatic device	✓
	Drain Plug	✓
	Connection ends upon request	✓
	Extended stem	Optional
	Face to face dim. as per API6D and ASME B16-10	✓
	Full / reduced bore / Customize bore.	As Requested
	Lifting lugs / Valve support	✓
	Locking device	Optional
	Manual or actuated operation	As Requested
	Seat injection fitting	Optional
	Stem injection fitting	Optional
	Transition pups pieces for welded ends	Optional
	Trunnion mounted	✓
	Vent plug	✓
	Heating jacket	Optional
	Firesafe design	✓
Function	Self-Relieving seats	✓
	Double Block and Bleed (DBB)	✓
	Double Piston Effect (DPE)	Optional
	Double Isolation and Bleed (DIB)	Optional
	Bleed valve	Optional
	Dual Seat (DPE + self-relieving seat)	Optional
	By-pass system	Optional
	Automatic bleeding system	Optional
	Single Piston Effect	Optional
Coating	ENP on Seat / Ball / Stem / Body	Optional
	Overlay on seat pocket	Optional
	Overlay on dynamic seal pockets	Optional
	Overlay on all wetted parts	Optional
Sealing	O-ring seals	✓
	Polymeric Lip-seals	Optional
	Soft seat insert	✓
	Metal to Metal seats	Optional

Custom ends

All SRi Ball Valves can be designed and manufactured with any standards or customs ends, such as :



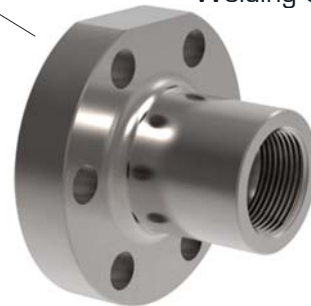
Standardized Flange



Hub end



Welding end: PE / BW / SW



Threading end Male or Female

And more :

- Proprietary flange
- Nipples
- Quick flange
- ETC.

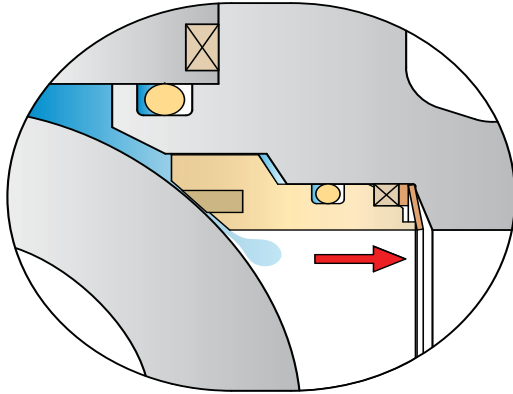
Did you know?

By choosing a SRi ball valve, you are getting :

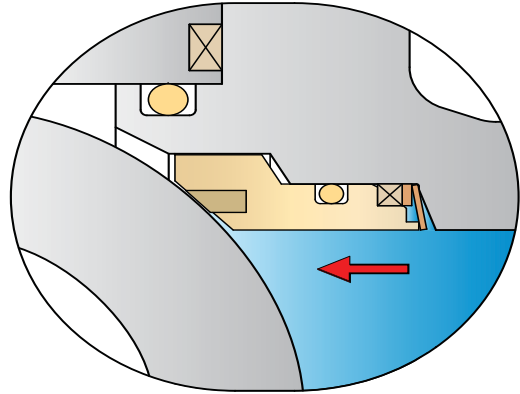
- A valve designed, assembled and tested in FRANCE only,
- A valve manufactured from Western European Raw Material only,
- A valve with one of the lowest torques in the market,
- A valve which can be manufactured with any material grade you can select,
- A valve which can be especially designed to meet your requirements,
- A valve designed with ISO 5211 top flange and which can be actuated any time,
- A fire safe, SIL, Fugitive emission approved valve,
- A dedicated team you can contact and speak to at anytime,
- A valve that will never disappoint you. 😊

Single Effect (DBB)

Each seat is unidirectional regarding the difference of pressure. This creates a seal in both directions of the flow as each seat moves independently. Self relieving of the cavity is insured by the seat on the side with the lowest pressure.



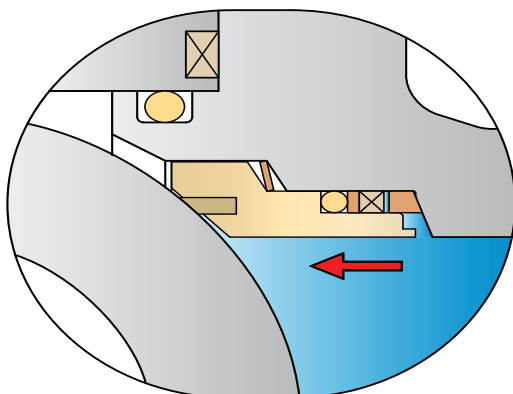
Self relieving function



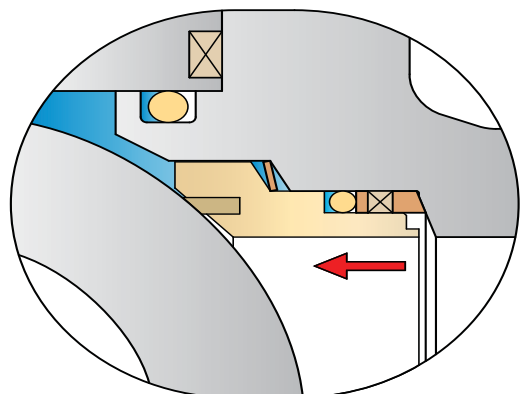
Sealing function

Double Effect (DPE/DIB)

Each seat is bidirectional according to the difference of pressure. It ensures the sealing in both directions with the simultaneous action of the 2 seats. The seats do not relieve the internal volume (cavity) pressure build-up caused by thermal expansion. When the valve is equipped with 2 identical DE seats, the cavity relief must be realized by a specific external system (external safety or bleed valve).



Direct mode



Reverse mode

These 2 different designs allow to have several functionalities, as DIB or DBB.

DBB (Double Block and Bleed) valve is bidirectional according to the difference of pressure. A single valve with two seating surfaces that, in the closed position, provide a seal against pressure from both ends of the valve with a mean of venting/bleeding the cavity between the seating surfaces. DBB allows to control the sealing of the upstream seat.

DIB (Double Isolation and Bleed) valve is bidirectional according to the difference of pressure. DIB valve is a single valve with two seating surfaces, each of which, in the closed position, provides a seal against pressure from a single source, with a mean of venting/bleeding the cavity between the seating surfaces.

If a seat is damaged, and can't be tight, the downstream seat is tight and keeps the efficiency of the valve and increases the lifetime of the valve.

Other construction :

A valve can be designed with one S.E and one D.E seat. With this design, the valve is bidirectional according to the difference of pressure. Self-relieving of the cavity is always insured by the SE seat on the same side of the valve.

Design Specifications

Design Standards

DESIGN	BODY THICKNESS	FACE-TO-FACE	MAST	FIRESAFE	BOLTING
API 6D - ISO 14313 API 6DSS - ISO 14723 API 6A - ISO 10423 Customers specifications	ASME VIII-1 , VIII-2 ASME B16.34 - EN 12516	API 6D - ISO 14313 API 6DSS - ISO 14723 ASME B16.10	ASME VIII-1 , VIII-2	ISO 10497 - API 607 API 6FA	ASME VIII-1 , VIII-2 ASME B16.34
OTHERS	Materials: ASME II-D Flanges: ASME B16-5 ASME B16-47	NDT: ASME V Weld ends: ASME B16-25	Welding: ASME IX Gas pipeline: ISO 14141	Sour service: NACE MR01-75 - ISO 15156 NACE MR01-03	

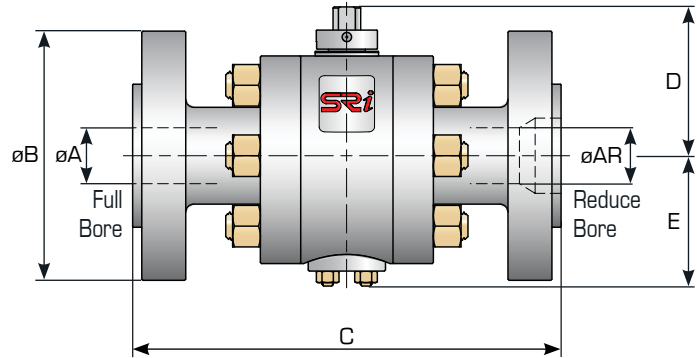
Material Specifications

Body / Flange	Internal parts	Bolting	Soft Seating
Carbon steels or Low alloyed steels			Sealing seals
A350 LF2 - A105 - A216 WCB A182 F11 Cl2 - A217 WC6 A182 F22 Cl3 - A217 WC9 A182 F5a - A217 C5 A694 F60 A694 F65		A193 B7 / B7M - A194 2H A193 B16 - A194 Gr16 A193 B5 - A194 Gr3 A320 L7/ L43/ L7M - A194 Gr7 / 7M	POLYAMIDE PA 6-11-12 DEVLON V-API PTFE ETFE PFA PCTFE PEEK POLYIMIDE
Stainless Steels			Metal Seating
A564 - A705 Gr630 (17-4 PH) A182 F316 & F316L - A351 CF8M & CF3M A182 F6A - A479 S41000 A182 F44 - A351 CK3MCuN A182 F321		A564 Gr630 - A194 2H A193 B6 - A194 Gr6 A193 B8 Cl2 - A194 Gr8 A193 B8M Cl2 - A194 Gr8M A453 Gr660 A193 B8R	CCC (Chromium Carbide Coating) TCC (Tungsten Cabride Coating) ENP (Electroless Nickel Plating)
Duplex			
A182 F51		A479 S31803	
SuperDuplex			
A182 F53 A182 F55		A182 S32750 A182 S32760	
Titanium			
B348 Gr2 B348 Gr3		F467 Gr5 F468 Gr T19	
Nickel Alloys			
B564 N06625 B564 N08800 B564 N08825		B637 N07718	

Coating	Sealing	
ENP (Electroless Nickel Plating) Weld overlay (AISI 316 - 316L, ALLOY 625) Fluorocarbon Coating on Bolting	O-Ring	Lip Seal
	-50°C to 325°C	-196°C to 200°C
	Metal/graphoil Gasket and Stem Extension	Lip Seal and Stem Extension
	Over 500°C	-196°C

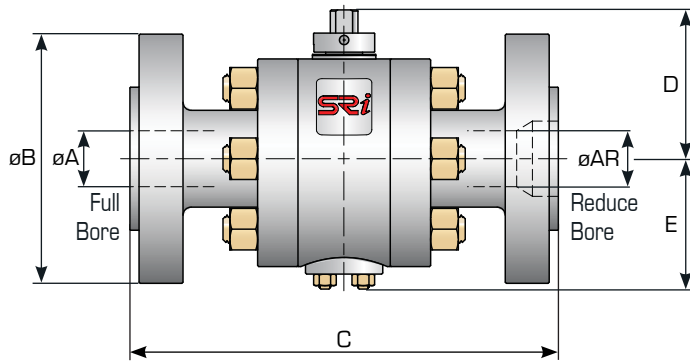
Dimensions & Weight

PN 10-16-25-40



DN	ØA	ØAR	ØB (mm)				C	D	E	WEIGHT (Kg)			
(inches)	(mm)	(mm)	PN 10	PN 16	PN 25	PN 40	(mm)	(mm)	(mm)	PN 10	PN 16	PN 25	PN 40
½	13	-	95				150	69.5	60.5	5	5	5	5
¾	19	-	105				150	69.5	60.5	6	6	6	6
1 × ¾	25	19	115				160	69.5	60.5	6	6	6	6
1	25	-	115				160	79.2	69.5	8	8	8	8
1 ½ × 1	38	25	150				200	79.2	69.5	10	10	11	11
1 ½	38	-	150				200	93.2	83	14	14	15	15
2 × 1 ½	50	38	165				230	93.2	83	17	17	18	18
2	50	-	165				230	115	95.5	19	19	22	22
3 × 2	76	50	200				310	115	95.5	30	30	31	31
3	76	-	200				310	135	120.5	37	37	39	39
4 × 3	100	76	220		235		350	135	120.5	45	45	52	52
4	100	-	220		235		350	167.5	140.5	60	60	65	65
6 × 4	150	100	285		300		480	167.5	140.5	85	85	90	90
6	150	-	285		300		480	227.5	190.5	150	150	170	170
8 × 6	201.4	150	340		360	375	600	227.5	190.5	210	215	220	225
8	201.4	-	340		360	375	600	268.5	227	280	280	290	295
10 × 8	252.4	201.4	395	405	425	450	730	268.5	227	360	370	380	395
10	252.4	-	395	405	425	450	730	375.9	272.5	470	480	485	500
12 × 10	303.4	252.4	445	460	485	515	850	375.9	272.5	605	615	630	660
12	303.4	-	445	460	485	515	850	346.4	329	830	840	860	880
14 × 12	336	303.4	505	520	555	580	980	346.4	329	900	910	940	970
16 × 12	388	303.4	565	580	620	660	1100	346.4	329	1150	1180	1220	1260
14	336	-	505	520	555	580	980	471.9	353.5	1220	1240	1260	1280
16 × 14	388	336	565	580	620	660	1100	471.9	353.5	1300	1320	1340	1400
16	388	-	565	580	620	660	1100	508.4	389	1640	1660	1680	1720
18 × 16	438	388	615	640	670	685	1200	508.4	389	1750	1770	1800	1850
20 × 16	489	388	670	715	730	755	1250	508.4	389	2120	2160	2200	2240
18	438	-	615	640	670	685	1200	586	436	2530	2550	2570	2590
20 × 18	489	438	670	715	730	755	1250	586	436	2680	2720	2760	2800
20	489	-	670	715	730	755	1250	621.5	470	3100	3130	3160	3190
24 × 20	590	489	780	840	845	890	1450	621.5	470	3200	3240	3300	3380
24	590	-	780	840	845	890	1450	724.1	548	4800	4850	4900	5000
28 × 24	686	590	895	910	960	N.A	1650	724.1	548	-	-	-	N.A
28	686	-	895	910	960		1650	892	696	-	-	-	
32 × 28	797	686	1015	1025	1085		1850	892	696	-	-	-	
32	797	-	1015	1025	1085		1850	988	750	-	-	-	
36 × 32	876	797	1115	1125	1185		2050	988	750	-	-	-	
36	876	-	1115	1125	1185		2050	1043	860	-	-	-	
40 × 36	976	876	1230	1255	1320		2250	1043	860	-	-	-	

Dimensions & Weight



ASME CLASS 150 - PN 20

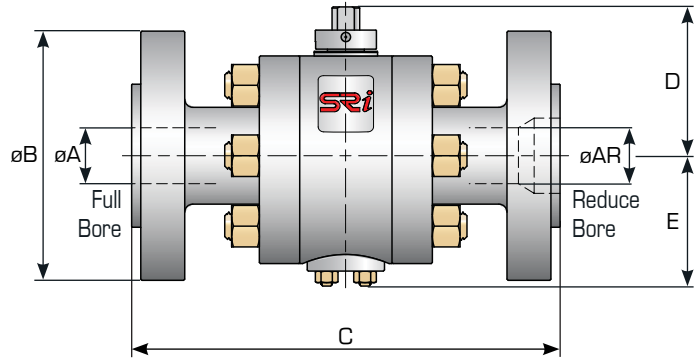
*Face-to-Face manufacturer

DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
½	13	-	152*	152*	150	89	69.5	60.5	6	4
¾	19	-	152*	152*	150	99	69.5	60.5	6	4
1 x ¾	25	19	160*	172.7*	150	108	69.5	60.5	7	4
1	25	-	160*	172.7*	150	108	79.2	69.5	7	5
1 ½ x 1	38	25	165	177.7	160	127	79.2	69.5	10	6
1 ½	38	-	165	177.7	190	127	93.2	83	13	10
2 x 1 ½	50	38	178	191	198	152	93.2	83	15	12
2	50	-	178	191	198	152	115	95.5	17	13
3 x 2	76	50	203	216	220	190	115	95.5	23	16
3	76	-	203	216	220	190	135	120.5	31	24
4 x 3	100	76	229	241	270	229	135	120.5	40	27
4	100	-	229	241	270	229	167.7	140.5	52	45
6 x 4	150	100	394	406	346	279	167.7	140.5	82	49
6	150	-	394	406	346	279	227.5	190.4	155	125
8 x 6	201.4	150	457	470	430	343	227.5	190.4	184	130
8	201.4	-	457	470	430	343	268.6	227	270	230
10 x 8	252.4	201.4	533	546	510	406	268.6	227	306	245
10	252.4	-	533	546	510	406	375.9	272.3	440	390
12 x 10	303.4	252.4	610	622	540	483	375.9	272.3	507	417
12	303.4	-	610	622	620	483	346.4	329	690	640
14 x 12	336	303.4	686	699	620	533	346.4	329	750	690
16 x 12	388	303.4	762	775	620	597	346.4	329	850	780
14	336	-	686	699	660	533	471.9	353.5	945	855
16 x 14	388	336	762	775	660	597	471.9	353.5	1030	900
16	388	-	762	775	760	597	508.4	389	1260	1130
18 x 16	438	388	864	876	760	635	508.4	389	1355	1205
20 x 16	489	388	914	927	800	698	508.4	389	1460	1210
18	438	-	864	876	830	635	586	436	1714	1564
20 x 18	489	438	914	927	800	698	586	436	1822	1472
20	489	-	914	927	910	698	621.5	470	2300	2000
24 x 20	590	489	1067	1080	910	813	621.5	470	2617	2367
24	590	-	1067	1080	1040	813	724.1	548	3090	2650
30 x 24	737	590	1295	1308	1040	985	724.1	548	5530	3047
28	686	-	1245	1258	1250	927	892	696	-	-
32 x 28	797	686	1372	1385	1370	1060	892	696	-	-
30	737	-	1295	1308	1300	985	868	678	6510	5890
36 x 30	876	737	1524	1537	1520	1168	868	678	-	-
32	797	-	1372	1385	1370	1060	988	750	8100	-
36 x 32	876	797	1524	1537	1520	1168	988	750	-	-
34	830	-	1473	1502	1485	1111	1012.5	777	-	-
36 x 34	876	830	1524	1537	1520	1170	1012.5	777	9030	-
36	876	-	1524	1537	1520	1170	1043	860	10670	-
40 x 36	976	876	1702	1730	1720	1289	1043	860	-	-



Dimensions & Weight

ASME CLASS 300 - PN 50

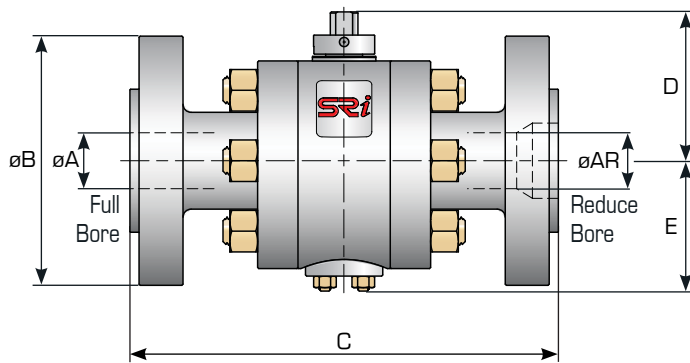


*Face-to-Face manufacturer

DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
½	13	-	152*	163.2*	150	95	69.5	60.5	6	4
¾	19	-	152	165.1	150	117	69.5	60.5	7	4
1 x ¾	25	19	165	177.8	150	124	69.5	60.5	7	4
1	25	-	165	177.8	150	124	79.2	69.5	8	5
1 ½ x 1	38	25	190.5	203.2	190	156	79.2	69.5	11	6
1 ½	38	-	190.5	203.2	190	156	93.2	83	15	10
2 x 1 ½	50	38	216	231.7	198	165	93.2	83	18	12
2	50	-	216	231.7	198	165	115	95.5	23	13
3 x 2	76	50	282.5	298.2	220	210	115	95.5	35	16
3	76	-	282.5	298.2	220	210	135	120.5	43	24
4 x 3	100	76	304.8	320.6	270	254	135	120.5	58	27
4	100	-	304.8	320.6	270	254	167.5	140.5	70	45
6 x 4	150	100	403.4	419.2	346	318	167.5	140.5	95	49
6	150	-	403.4	419.2	346	318	227.5	190.4	175	135
8 x 6	201.4	150	501.7	517.5	430	381	227.5	190.4	214	134
8	201.4	-	501.7	517.5	430	381	268.5	227	300	250
10 x 8	252.4	201.4	568.5	584.2	510	444	268.5	227	347	232
10	252.4	-	568.5	584.2	510	444	375.9	272.3	470	390
12 x 10	303.4	252.4	647.7	663.5	620	521	375.9	272.3	565	415
12	303.4	-	647.7	663.5	620	521	346.4	329	740	630
14 x 12	336	303.4	762	777.7	660	584	346.4	329	860	670
16 x 12	388	303.4	838.2	854	760	648	346.4	329	970	760
14	336	-	762	777.7	660	584	471.9	353.5	1035	855
16 x 14	388	336	838.2	854	760	648	471.9	353.5	1180	930
16	388	-	838.2	854	760	648	508.4	389	1380	1130
18 x 16	438	388	914.4	930.2	830	711	508.4	389	1547	1197
20 x 16	489	388	990.6	1009.7	910	775	508.4	389	1707	1382
18	438	-	914.4	930.2	830	711	586	436	1860	1410
20 x 18	489	438	990.6	1009.7	910	775	586	436	2060	1510
20	489	-	990.6	1009.7	910	775	621.5	470	2480	1980
24 x 20	590	489	1143	1165.4	1040	914	621.5	470	2985	2285
24	590	-	1143	1165.4	1040	914	724.1	548	3380	2680
30 x 24	737	590	1397	1422.4	1300	1092	724.1	548	4377	2989
28	686	-	1346	1372	1250	1035	892	696	-	-
32 x 28	797	686	1524	1553	1370	1149	892	696	-	-
30	737	-	1397	1422.4	1300	1092	868	678	6870	-
34 x 30	830	737	1625	1654	1630	1206	868	678	-	-
36 x 30	876	737	1727	1756	1520	1270	868	678	-	-
32	797	-	1524	1553	1370	1149	988	750	-	-
36 x 32	876	797	1727	1756	1520	1270	988	750	-	-
34	830	-	1625	1654	1630	1206	1012.5	777	-	-
36 x 34	876	830	1727	1756	1520	1270	1012.5	777	-	-
36	876	-	1727	1756	1520	1270	1043	860	1130	-



Dimensions & Weight

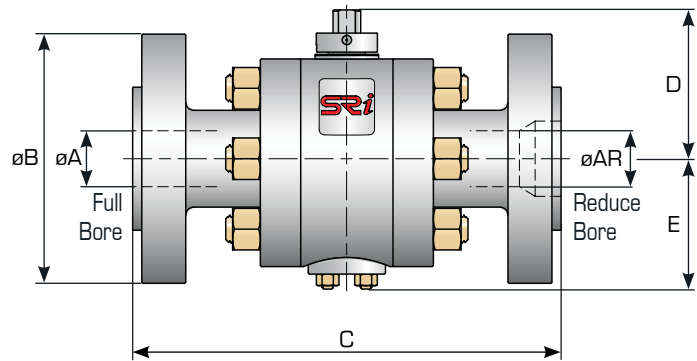


ASME CLASS 400 - PN 64

DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
1/2	13	-	165.1	163.6	150	95	69.5	60.5	7	4
3/4	19	-	190.5	190.5	150	117	69.5	60.5	7	4
1 x 3/4	25	19	215.9	215.9	150	124	69.5	60.5	8	4
1	25	-	215.9	215.9	150	124	79.2	69.5	10	6
1 1/2 x 1	38	25	241.3	241.3	190	156	79.2	69.5	13	6
1 1/2	38	-	241.3	241.3	190	156	93.2	83	17	11
2 x 1 1/2	50	38	292.1	295.1	220	165	93.2	83	21	12
2	50	-	292.1	295.1	220	165	115	95.5	31	20
3 x 2	76	50	355.6	358.6	270	210	115	95.5	42	23
3	76	-	355.6	358.6	270	210	151.2	126.3	65	45
4 x 3	100	76	406.4	409.4	320	254	151.2	126.3	85	49
4	100	-	406.4	409.4	320	254	192.6	157	115	85
6 x 4	150	100	495.3	498.3	400	318	192.6	157	150	90
6	150	-	495.3	498.3	400	318	265.1	198.8	250	200
8 x 6	201.4	150	596.9	599.9	500	381	265.1	198.8	330	220
8	201.4	-	596.9	599.9	500	381	334.6	261	450	380
10 x 8	252.4	201.4	673.1	676.1	540	444	334.6	261	540	400
10	252.4	-	673.1	676.1	540	444	405.4	282	640	540
12 x 10	303.4	252.4	762	765	620	521	405.4	282	760	570
12	303.4	-	762	765	620	521	480.9	346	1050	850
14 x 12	336	303.4	825.5	828.5	710	584	480.9	346	1045	845
16 x 12	388	303.4	901.7	904.7	762	648	480.9	346	1240	890
14	336	-	825.5	828.5	710	584	539	391.3	1400	1200
16 x 14	388	336	901.7	904.7	762	648	539	391.3	1600	1250
16	388	-	901.7	904.7	762	648	575.5	427.8	1800	1500
18 x 16	438	388	977.9	980.9	830	711	575.5	427.8	2030	1580
20 x 16	489	388	1054.1	1060.5	910	775	575.5	427.8	2223	1703
18	438	-	977.9	980.9	830	711	652	507	2650	2300
20 x 18	489	438	1054.1	1060.5	910	775	652	507	2950	2400
20	489	-	1054.1	1060.5	910	775	716	557	3050	2700
24 x 20	590	489	1231.9	1241.6	1040	914	716	557	3900	2800
24	590	-	1231.9	1241.6	1040	914	787.5	598.5	4900	4200

Dimensions & Weight

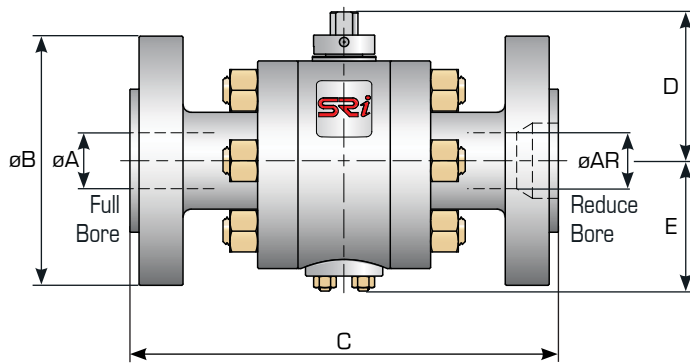
ASME CLASS 600 - PN 100



DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
1/2	13	-	165.1	163.6	150	95	69.5	60.5	7	4
3/4	19	-	190.5	190.5	150	117	69.5	60.5	7	4
1 x 3/4	25	19	215.9	215.9	150	124	69.5	60.5	8	4
1	25	-	215.9	215.9	150	124	79.2	69.5	10	6
1 1/2 x 1	38	25	241.3	241.3	160	156	79.2	69.5	13	6
1 1/2	38	-	241.3	241.3	190	156	93.2	83	17	11
2 x 1 1/2	50	38	292.1	295.1	198	165	93.2	83	21	12
2	50	-	292.1	295.1	220	165	115	95.5	30	20
3 x 2	76	50	355.6	358.6	270	210	115	95.5	42	23
3	76	-	355.6	358.6	270	210	151.2	126.3	65	45
4 x 3	100	76	431.8	434.8	300	273	151.2	126.3	92	49
4	100	-	431.8	434.8	320	273	192.6	157	125	85
6 x 4	150	100	558.8	561.8	400	356	192.6	157	175	90
6	150	-	558.8	561.8	400	356	265.1	198.8	280	200
8 x 6	201.4	150	660.4	663.4	500	419	265.1	198.8	350	220
8	201.4	-	660.4	663.4	500	419	334.6	261	500	380
10 x 8	252.4	201.4	787.4	790.4	540	508	334.6	261	620	420
10	252.4	-	787.4	790.4	540	508	405.4	282	700	490
12 x 10	303.4	252.4	838.2	841.2	570	559	405.4	282	765	515
12	303.4	-	838.2	841.2	620	559	480.9	346	1075	825
14 x 12	336	303.4	889	892	620	603	480.9	346	1145	845
16 x 12	388	303.4	990.6	993.6	620	686	480.9	346	1345	995
14	336	-	889	892	710	603	539	391.3	1495	1245
16 x 14	388	336	990.6	993.6	710	686	539	391.3	1751	1280
16	388	-	990.6	993.6	760	686	575.5	427.8	1985	1535
18 x 16	438	388	1092.2	1095.2	760	743	575.5	427.8	2230	1580
20 x 16	489	388	1193.8	1200.2	760	813	575.5	427.8	2423	1815
18	438	-	1092.2	1095.2	890	743	652	507	2890	2345
20 x 18	489	438	1193.8	1200.2	890	813	652	507	3182	2480
20	489	-	1193.8	1200.2	910	813	716	557	3495	2990
24 x 20	590	489	1397	1406.7	910	940	716	557	4190	2890
24	590	-	1397	1406.7	1040	940	787.5	598.5	5385	4280
30 x 24	735	590	1651	1664	1350	1130	787.5	598.5	-	-
28	684	-	1549	1562	1250	1073	-	-	-	-
32 x 28	779	684	1778	1794	1470	1194	-	-	-	-
30	735	-	1651	1664	1350	1130	-	-	-	-
36 x 30	874	735	2083	2099	1700	1314	-	-	-	-
32	779	-	1778	1794	1470	1194	-	-	-	-
36 x 32	874	779	2083	2099	1700	1314	-	-	-	-
36	874	-	2083	2099	1700	1315	-	-	-	-



Dimensions & Weight



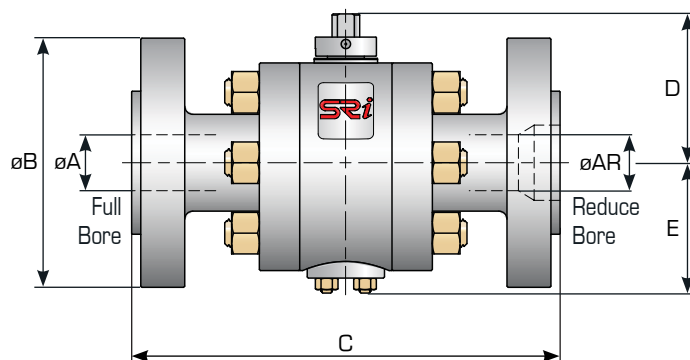
ASME CLASS 900 - PN 150

DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
½	13	-	215.9	215.9	150	121	69.5	60.5	9	4
¾	19	-	228.6	228.6	150	130	69.5	60.5	10	4
1 × ¾	19	25	254	254	150	149	69.5	60.5	12	4
1	25	-	254	254	165	149	84.2	76	18	9
1 ½ × 1	38	25	304.8	304.8	165	178	84.2	76	22	9
1 ½	38	-	304.8	304.8	195	178	102	95	30	15
2 × 1 ½	50	38	368.3	371.3	198	216	102	95	43	17
2	50	-	368.3	371.3	220	216	115	95.5	45	20
3 × 2	76	50	381	384	270	241	115	95.5	55	23
3	76	-	381	384	270	241	151.2	126.3	70	45
4 × 3	100	76	457.2	460.2	300	292	151.2	126.3	100	49
4	100	-	457.2	460.2	320	292	192.6	157	135	85
6 × 4	150	100	609.6	612.6	400	381	192.6	157	215	90
6	150	-	609.6	612.6	400	381	265.1	198.8	310	200
8 × 6	201.4	150	736.6	739.6	500	470	265.1	198.8	430	220
8	201.4	-	736.6	739.6	500	470	334.6	261	580	380
10 × 8	252.4	201.4	838.2	841.2	540	546	334.6	261	730	420
10	252.4	-	838.2	841.2	600	546	439.9	320	935	735
12 × 10	303.4	252.4	965.2	968.2	600	610	439.9	320	1068	670
12	303.4	-	965.2	968.2	700	610	513.5	399.8	1645	1295
14 × 12	336	303.4	1028.7	1038.4	700	641	513.5	399.8	1728	1278
16 × 12	388	303.4	1130.3	1140	750	705	513.5	399.8	1860	1410
14	336	-	1028.7	1038.4	750	641	569	429	1985	1535
16 × 14	388	336	1130.3	1140	750	705	569	429	2132	1632
16	388	-	1130.3	1140	880	705	605.5	466	2505	1905
18 × 16	438	388	1219.2	1231.9	880	787	605.5	466	2732	2032
20 × 16	489	388	1320.8	1333.5	900	857	605.5	466	2969	2679
18	438	-	1219.2	1231.9	900	787	708	512	3535	2835
20 × 18	489	438	1320.8	1333.5	900	857	708	512	3805	3005
20	489	-	1320.8	1333.5	1040	857	743.5	547	4460	3660
24 × 20	570	489	1549.4	1568.5	1040	1041	743.5	547	5330	3930
24	570	-	1549.4	1568.5	1040	1041	903	680	8100	6900
30 × 24	712	570	1803	1825	1510	1232	903	680		
28	665	-	1707	1749	1420	1168	-	-	-	-
32 × 28	760	665	1905	1927	1615	1314	-	-	-	-
30	712	-	1803	1825	1510	1232	-	-	-	-
36 × 30	855	712	2182	2210	1750	1461	-	-	-	-
32	760	-	1905	1927	1615	1314	-	-	-	-
36 × 32	855	760	2182	2210	1750	1461	-	-	-	-
36	855	-	2182	2210	1750	1461	-	-	-	-



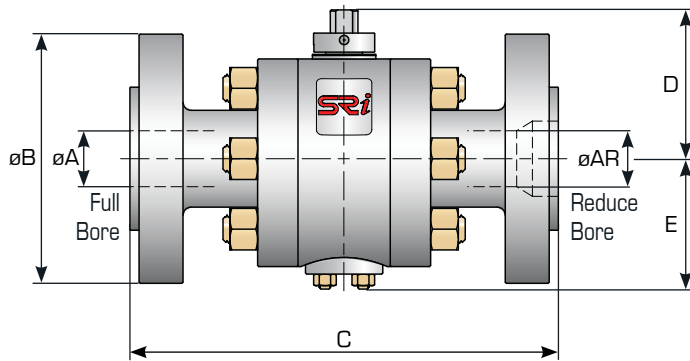
Dimensions & Weight

ASME CLASS 1500 - PN 250



DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
1/2	13	-	215.9	215.9	155	121	72.5	60.5	11	5
3/4	19	-	228.6	228.6	160	130	72.5	60.5	12	5
1 x 3/4	25	19	254	254	195	149	72.5	60.5	12	5
1	25	-	254	254	165	149	84.2	76	18	9
1 1/2 x 1	38	25	304.8	304.8	235	178	84.2	76	22	10
1 1/2	38	-	304.8	304.8	195	178	102	95	30	15
2 x 1 1/2	50	38	368.3	371.3	289	216	102	95	43	17
2	50	-	368.3	371.3	260	216	129.2	107	54	30
3 x 2	76	50	469.9	472.9	300	267	129.2	107	75	34
3	76	-	469.9	472.9	330	267	182.6	153	120	75
4 x 3	100	76	546.1	549.1	425	311	182.6	153	140	80
4	100	-	546.1	549.1	380	311	225.8	185	205	145
6 x 4	150	100	704.9	711.2	550	394	225.8	185	290	115
6	150	-	704.9	711.2	510	394	328	245	450	340
8 x 6	201.4	150	831.8	841.5	650	483	328	245	550	310
8	201.4	-	831.8	841.5	600	483	390.7	328	850	650
10 x 8	252.4	201.4	990.6	1000.3	770	584	390.7	328	1050	700
10	252.4	-	990.6	1000.3	715	584	466	398	1550	1200
12 x 10	303.4	252.4	1130.3	1146	880	673	466	398	1800	1300
12	303.4	-	1130.3	1146	810	673	550	460	2300	1750
14 x 12	318	303.4	1257.3	1276.4	980	749	550	460	2600	1900
16 x 12	362	303.4	1384.3	1406.7	1080	826	550	460	3250	2380
14	318	-	1257.3	1276.4	900	749	613	508	3270	2620
16 x 14	362	318	1384.3	1406.7	1080	826	613	508	3600	2750
16	362	-	1384.3	1406.7	965	826	644	569	4500	3700
18 x 16	406	362	1537	1559.2	Consult Sri	914	644	569	5000	3900
20 x 16	456	362	1664	1686.2		984	644	569	-	-
18	406	-	1537	1559.2		914	-	-	-	-
20 x 18	456	406	1664	1686.2		984	-	-	-	-
20	456	-	1664	1686.2		984	846	685	-	-
24 x 20	546	456	1943	1972		1168	846	685	-	-
24	546	-	1943	1972		1168	979	797	13450	

Dimensions & Weight



ASME CLASS 2500 - PN 420

DN	ØA	ØAR	C (mm)			ØB	D	E	WEIGHT (Kg)	
(inches)	(mm)	(mm)	RF	RTJ	BW	(mm)	(mm)	(mm)	FLANGES	BW
1/2	13	-	263.7	263.7	298	133	89.2	88	20	13
3/4	16	-	273	273	298	140	89.2	88	21	13
1 x 3/4	21	16	307.8	307.8	298	159	89.2	88	23	14
1	21	-	307.8	307.8	308	159	99	95	29	16
1 1/2 x 1	34	21	384	387	308	203	99	95	44	18
1 1/2	34	-	384	387	330	203	130.7	129.5	55	30
2 x 1 1/2	43	34	450.9	453.9	332	235	130.7	129.5	70	33
2	43	-	450.9	453.9	350	235	157.2	142.5	110	70
3 x 2	67	43	577.9	584.2	392	305	157.2	142.5	155	55
3	67	-	577.9	584.2	420	305	190.2	164.8	190	110
4 x 3	87	67	673.1	682.8	456	356	190.2	164.8	225	120
4	87	-	673.1	682.8	520	356	239	198	320	200
6 x 4	133	87	914.4	927.1	620	483	239	198	520	240
6	133	-	914.4	927.1	670	483	364.1	299	850	500
8 x 6	180	133	1022.4	1038.1	690	552	364.1	299	1050	560
8	180	-	1022.4	1038.1	800	552	453	358	1545	1045
10 x 8	226	180	1270	1292.4	860	673	453	358	2000	1100
10	226	-	1270	1292.4	995	673	543	460	2600	1850
12 x 10	266	226	1422.4	1444.8	964	762	543	460	3100	2000
12	266	-	1422.4	1444.8	1115	762	632	562	4000	2900
14 x 12	292	266	Special flanges or connectors				632	562	-	-
16 x 12	326	266					632	562	-	-
14	292	-					713	612	-	-
16 x 14	326	292					713	612	-	-
16	326	-					749	675	-	-
18 x 16	374	326					749	675	-	-
20 x 16	419	326					749	675	-	-
18	374	-					-	-	-	-
20 x 18	419	374					-	-	-	-
20	419	-					1047.5	914	-	-

All our trunnion ball valves are suitable for onshore, offshore, and subsea applications



Onshore

Fields

- Oil and gas upstream activities
- Oil and gas downstream activities
- Oil and gas transportation systems
- Cryogenic processes
- Water supply
- Steam network
- And much more industries...



Subsea



Offshore

Services

- On/off valves remote operated or manual
- Shut Down Valves and emergency shut down valves with fail position.
- Safety Integrity Systems
- High Duty Valves
- Blowdown processes involving low temperature
- High Temperature Services
- Cryogenic valves
- Subsea applications in oil & gas industry.



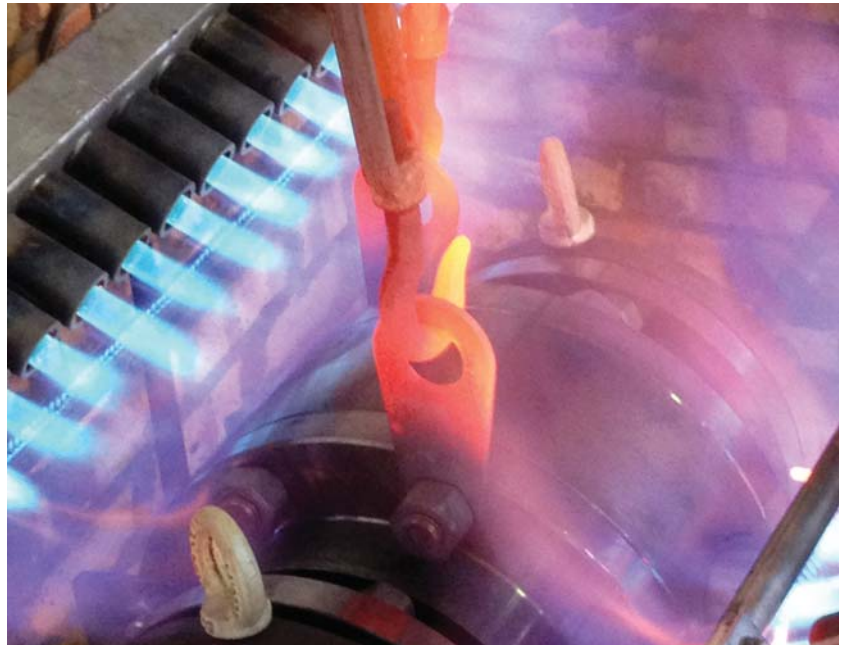
Test Benches

Standard tests

- Hydrostatic body test
- Hydrostatic seat test
- Low pressure air test
- Cavity safety test
- Functional test
- Anti static device test
- Pressure recording

Additional Tests

- Torque measurement
- Reliability test
- High pressure gas test
- Fugitive emissions
- Cryogenic test
- Fire test
- DIB test / DBB test
- Drift tool test
- PMI (material identification)
- Feritscope
- Usual NDE (MPI, DPI, US, RT)
- Hardness test
- Destructive testing
- 3.2 certificates on all parts



Fire Test

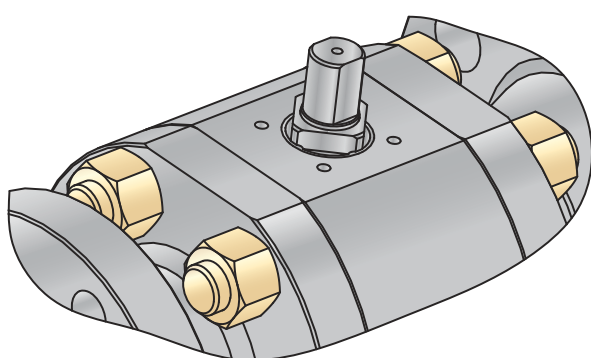


Cryogenic Test

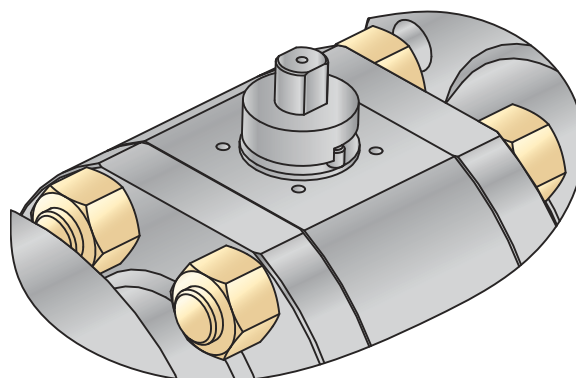
Certifications

- API 6D / 6A
- API 6DSS / API 17D (subsea)
- CE-PED 97/23/EC
- CE-ATEX 94/9/EC
- Firesafe ISO 10497 / API 607 / 6FA
- ISO 9001 / API Q1 / API QR1
- IEC 61508
- ISO / IEC 17025
- SIL Certification IEC 61508
- ISO 15848 1 / 2

ISO and Stop Stem Detail



Valves with ISO top flanges FO3-FO4-FO5-FO5A
Stop Plate is removed in case of actuation.

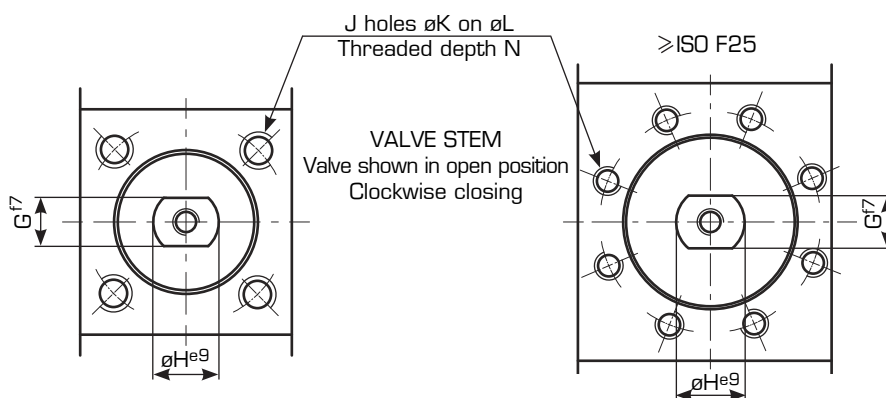
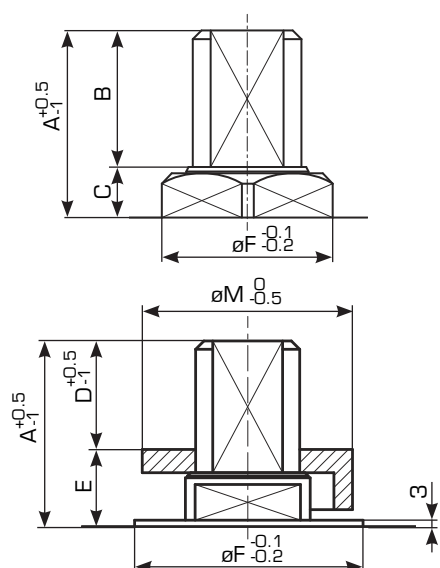


Valves with ISO top flanges \geq FO7
Stop plate is maintained on the valve.

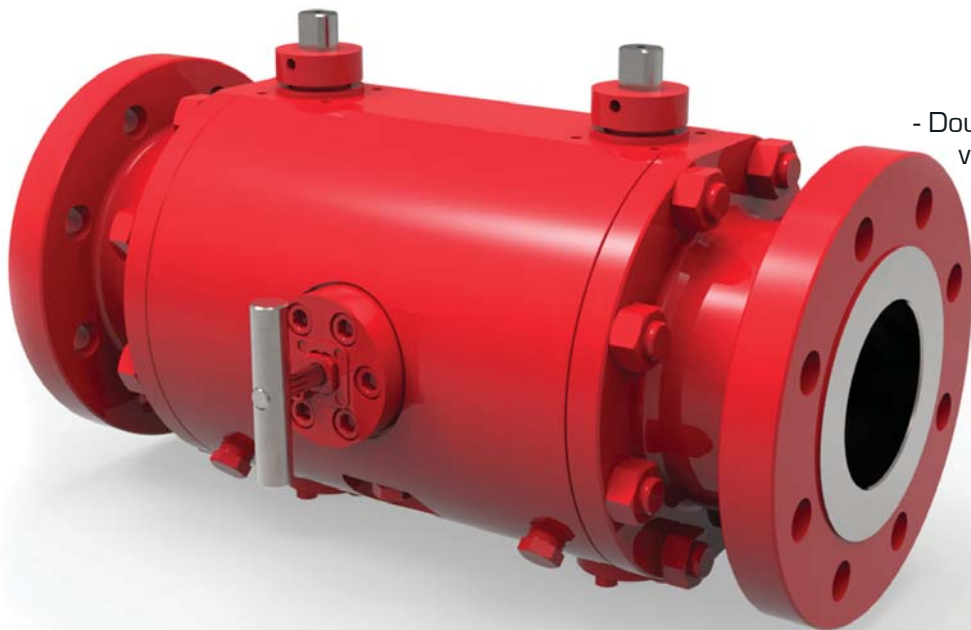
ISO top flange	A	B	C	D	E	F	G	H	J	K	L	M	N
FO3	22.5	15	7.5			25	8	11.5	4	M6	36		13
FO4	23.2	15	8.2			30	9	13	4	M6	42		13
FO5	36.2	26	10.2			35	17	21	4	M6	50		13
FO5A	26	18	8			30	11	15.5	4	M6	50		13
FO7	48.2			22.1	26.1	55	19	24	4	M8	70	53	12
FO7*	42.7			16.6	26.1	55	19	24	4	M8	70	53	12
FO7A	41.1			16.6	25.1	55	17	21	4	M8	70	53	12
F10	59.6			33	26.6	70	27	33	4	M10	102	68	11
F14	81.9			47.9	34	100	36	44	4	M16	140	98	16
F14*	71			37.9	33.1	100	36	44	4	M16	140	98	16
F16	102.4			64	38.4	130	40	54	4	M20	165	128	25
F16A	102.4			64	38.4	130	40	57	4	M20	165	128	25
F16B	102.4			64	38.4	130	48	66	4	M20	165	128	25
F25	114			71	43	200	60	85	8	M16	254	196	22
F26	122			71	51	230	70	105	8	M16	254	220	25
F30	136			80	56	260	80	120	8	M20	298	254	30
F35	154			90	64	300	90	135	8	M30	356	278	45
F40	184			120	64	300	105	160	8	M36	406	294	54
F48	217			150	67	370	125	190	12	M36	483	364	54

FO7* = Only for 2" CLASS 1500

F14* = Only for 4" CLASS 2500 and 4" 1/16 API5000



Double Block and Bleed



- Double Block and Bleed (DBB) ball valve is constituted by two balls in one valve body. A bleeder is added between the two balls of the valve.
- This system is equivalent to a DIB single ball valve.

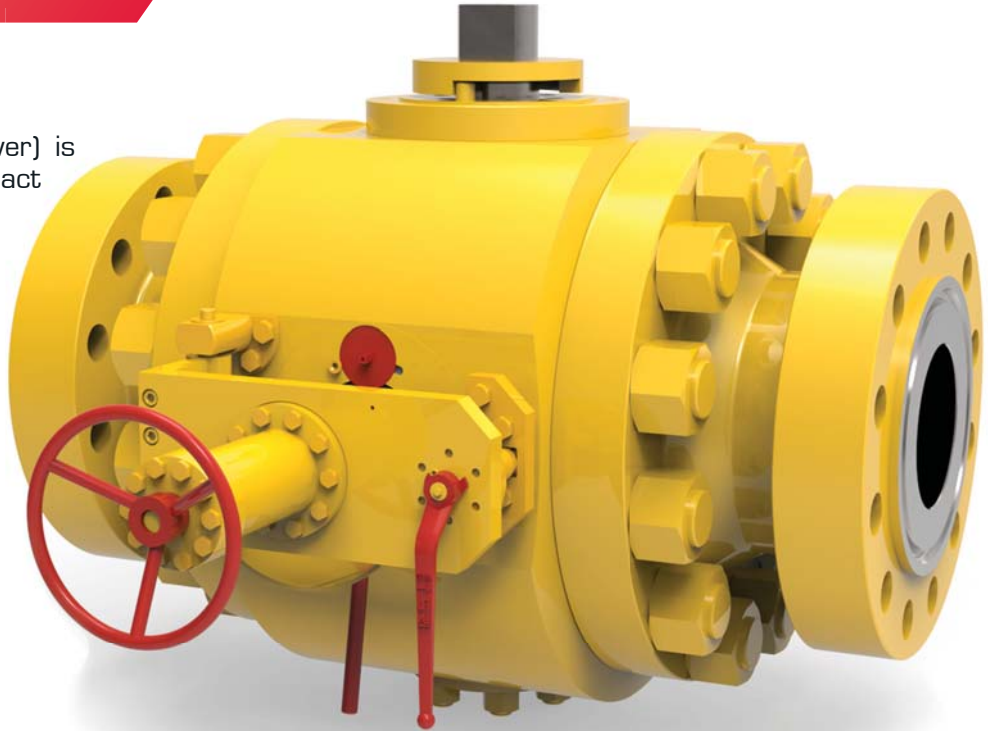
Tandem ball valve



- SRi tandem ball valve is constituted by two balls, as Double Block and Bleed ball valve, but the face-to-face dimension is in accordance with ASME B16.10.
- On site, SRi tandem ball valve can replace a single ball valve without modification of the pipe. Then, you will have two ball valves instead of only one. The second ball valve can be used as spare ball valve if the first one needs maintenance operation.

Pig Launcher

- SRi pig launcher (or receiver) is safe and much more compact than a pig trap.
- Manual or automatic secured access door.
- The pig launcher can be equipped with an optional by-pass to allow flow between both sides of the valve if the pig is presented in the valve ball.



Cryogenic - High Temp.

- When the expected service or design temperature is out of the standard temperature range of SRi ball valve, SRi manufactures high temperature or cryogenic ball valves.
- The minimum temperature of cryogenic ball valve is -196°C .
- The maximum temperature of high temperature ball valve is $+450^{\circ}\text{C}$ for TCC (Tungsten Carbide Coating) and $+650^{\circ}\text{C}$ for CCC (Chromium Carbide Coating).
- A specific sealing system is installed (graphite for high temperature valve and lip seal for cryogenic valve).



Multiways



- SRi multiways ball valve can be made, on demand, with L-port, T-port or X-port. Ball valve can be designed as transflow or non-transflow.

The non-transflow avoid connection of 3 or 4 branches during stroke.

- The SRi multiways ball valve keeps the valve tight even if the automatic cavity relief by seat leakage is activated.

Wafer



- Wafer ball valve saves space and weight, thanks to the absence of flange.

- This design also allows to replace gate valve without modification of the piping, should a reduce bore can be considered.

SRi

SUD ROBINETTERIE
industrie

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VANNES RIGAU S.A.S.

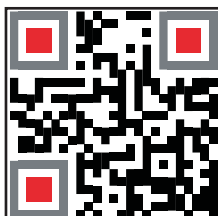
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