

40 Series



Specialist in Quality and Reliability since mid sixtys.

RBR was founded in 1964 and it has always been acknowledged worldwide as one of the leading manufactures of high quality and reliability Ball Valves for industrial application. The *RBR* Ball Valves are

successfully installed in many

Chemical, Petrochemical, Oil, Gas, Onshore and Offshore applications.

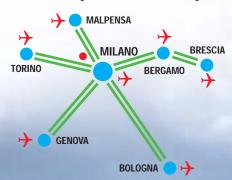
The keys of the long lasting success of **RBR** are:

 Constant development of RBR products and performance;

 Continous improvement of RBR process capability;

 Focus on the skills of RBR people.

RBR goals is to meet the expectations of the customers *delivering on time* the best product at a competitive price with an excellent before and after sales service.



Where we are

RBR headquarter is located 10 km from Čentral Milan in the area of the new exhibition centre of Milan (Italy), close to Malpensa International Airport, near to all the main motorway and 150-200 km from the 3 most important Italian seaports.







FLOATING SPLIT BODY BALL VALVES

STANDARD FEATURES

Split body Floating Ball Valves, 2/3 pcs split bolted body, side entry, full and reduced bore:

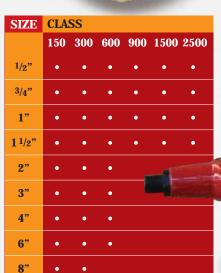
- Fire safe certified (BS 6755, API 607 and API 6FA);
- Stem sealing by three gaskets: one graphite seal and two o-rings;
- Antistatic device;
- Lever/Gear Operated;Flanges ANSI, UNI and DIN standards available.



- BW or SW ends:
- Cryogenic extension bonnet;
- Painting according to customer specification;
- Power assisted control by electric, pneumatic or hydraulic actuators.
- Metal seated valves;
- Transition pieces (pups);
- Locking device.



The full range of the RBR floating ball valves are designed in accordance with the BS5351, B16.10 and B16.5 Standard and verified following the PED Standards. The valves are constructed with forged materials in the various grades of carbon steel, stainless steels and alloys in compliance of the most severe conditions of service. Even meet the demands of SIL3. A wide range of options, sealing materials and welding overlays are also available upon request. On request RBR ball valves can be supplied accordingly with NACE MR-01-75 Standards.



10"

PRODUCT RANGE Casting Materials Floating Ball Valves

- Cost effective configuration;
- Carbon steel, stainless, steels and alloys for special applications;
- Designed in accordance with the BS5351, B16.10 and B16.5 standards, and verified following the PED standards;
- Antistatic device;
- · Fire safe certified;
- Range from ½" to 10" both ANSI 150 and 300 class.



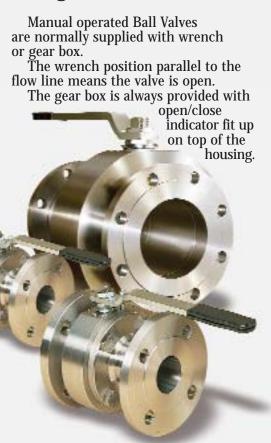
RBR







Engineering Data: Standard Operating Design:







PART LIST

Description

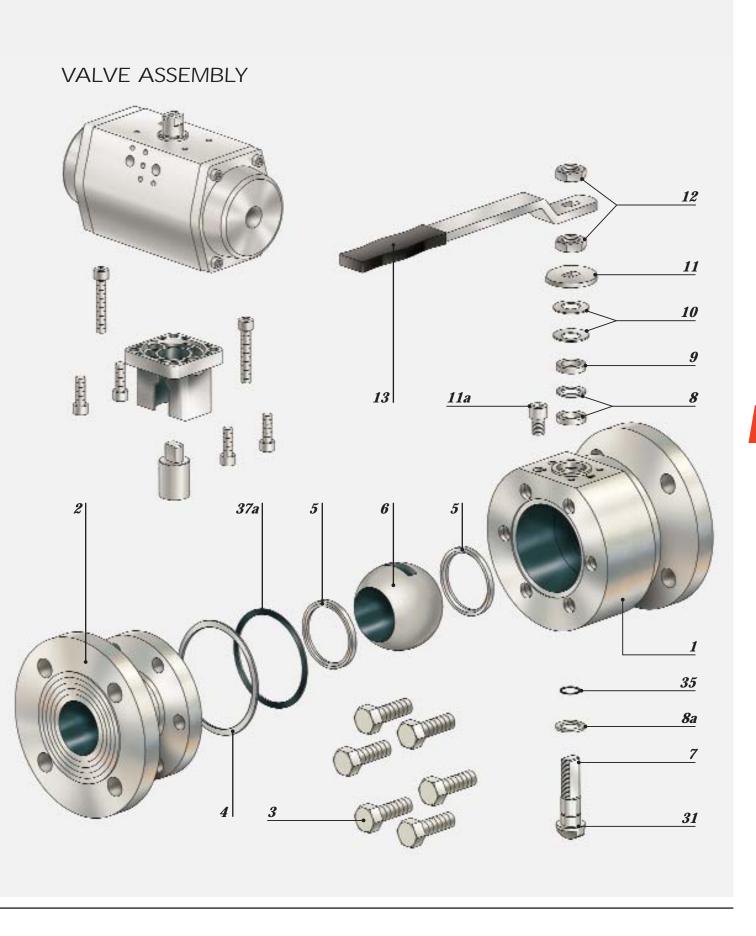
- 1 Body
- 2 Body Connector3 Body Connector Bolting
- 4 Body Gasket
- **5** Seat
- **6** Ball
- 7 Stem
- 8 Stem Seal
- 8a Stem Gasket
- **9** Gland
- 10 Disk Spring
- 11 Stop11a Stop Screw12 Gland Nut
- 13 Wrench
- 31 Antistatic Device35 Stem O-Ring
- 37a Body O-Ring



VALVE CROSS SECTION

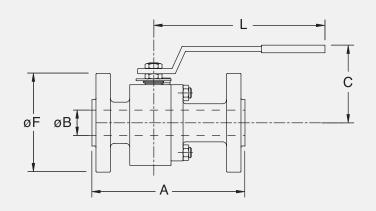


RBR





DIMENSION & WEIGHT



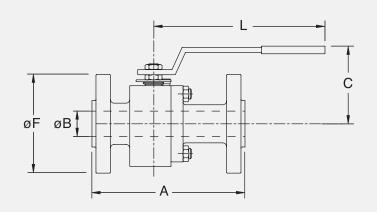
Class 150 - FB

Size DN		R	End to End A RF RTJ BW			ØB		ØB1		С		L		ØF		Wheights RF RTJ E		ts BW		
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1/2	15	4,25	108	-	-	5,5	140	0,6	15	-	-	3,5	85	5,9	150	3,54	90	2	2	1
3/4	20	4,62	117	-	-	6	152	0,79	20	-	-	3,54	90	5,9	150	3,88	98,5	4	4	3
1	25	5	127	5,5	140	6,5	165	0,99	25	-	-	4,72	120	10,23	260	4,25	108	6	6	4,5
1.1/4	32	5,51	140	6	152,5	7	178	1,26	32	-	-	3,94	100	8,26	210	4,62	117,3	8	8	6
1.1/2	40	6,5	165	7	178	7,5	191	1,58	40	-	-	4,72	120	10,6	270	5	127	11	11	9
2	50	7	178	7,5	191	8,5	216	1,96	50	-	-	5,12	130	10,6	270	6	152,5	14	14	10,5
2.1/2	65	7,48	190	8	203	9,5	241	2,59	66	-	-	5,7	145	12,9	330	7	178	19	19	16,5
3	80	8	203	8,5	216	11,1	283	3	76	-	-	6,1	155	14,95	380	7,5	190	28	28	21,5
4	100	9	229	9,5	241	12	305	3,94	100	-	-	7,5	190	16,55	420	9	228,5	39	39	30
5	125	10	254	10,5	267	-	-	4,93	125	-	-	8	200	16,55	420	10	254	48	48	45
6	150	10,5	267	11	279	15,88	403	5,9	150	-	-	9,64	245	22,83	580	11,02	280	110	110	93
8	200	11,5	292	12	305	16,5	419	7,87	200	-	-	-	-	-	Gear	13,5	343	120	120	94,5
10	250	21	533	21,5	546	18	559	9,85	250	-	-	-	-	-	Gear	16	406	133	133	109
Class 150 - RB																				

Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1.1/2x1	40x25	6,5	165	7	178	7,51	191	1,58	40	0,99	25	4,72	120	10,23	260	5	127	9	9	6,5
2x1.1/2	50x40	7	178	7,51	191	8,5	216	1,96	50	1,54	39	4,72	120	10,6	270	6	152,5	14	14	10
3x2	80x50	8	203	8,5	216	11,14	283	3	76	1,96	50	5,12	130	10,6	270	7,5	190	23	23	15
4x3	100x80	9	229	9,5	241	12	304	3,94	100	2,96	75	6,1	155	14,95	380	9	228,5	34	34	20
6x4	150x100	10,5	267	11	279	15,88	403	5,9	150	3,78	96	7,5	190	16,55	420	11,02	280	70	70	53
8x6	200x150	11,5	292	12	305	16,5	419	7,87	200	5,9	150	9,65	245	22,8	580	13,5	343	100	100	74
10x8	250x200	12,9	330	13,5	343	18	457	10	254	7,87	200	-	-	-	Gear	16	406	280	280	266



DIMENSION & WEIGHT



Class 300 - FB

4x3

6x4

100x80

150x100

17

432

17,13

22,13

435

17 432

3,94 100

2,96 75

7,48

155 14,95 380

190 16,55

10,75 273

64

34

61

Size				End to End A				Ø	В	ØF	31	(,	L		ØF		Wheights RF RTJ B\		
DN		R	F	R	TJ	B	N											RF I	&LJ	BW
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch		Inch	mm	Inch	mm	Inch	mm		mm			
1/2	15	5,5	140	5,94	151	5,5	140	0,6	15	-	-	3,5	85	5,9	150	3,75	95,2	4	4	3
3/4	20	6	152	6,5	165	6	152	0,79	20	-	-	3,54	90	5,9	150		117,5	5	5	3
1	25	6,5	165	7	178	6,5	165	0,99	25	-	-	4,72	120	10,23	260		123,9	7	7	4,5
1.1/2	40	7,51	191	8	204	7,51	191	1,58	40	-	-	4,72	120	10,6	270	6,1	155	13	13	8,5
2	50	8,5	216	9,12	232	8,5	216	1,96	50	-	-	5,12	130	10,6	270	6,5	165,1	16	16	11
3	80	11,14	283	11,76	298	11,14	283	3	76	-	-	6,1	155	14,95	380	8,25	209,5	38	38	27,
4	100	12	305	12,62	321	12	305	3,94	100	-	-	7,5	190	16,55	420	10	254	64	64	48
6	150	15,88	403	16,5	419	18	457	5,9	150	-	-	9,64	245	22,83	580	12,5	317,5	135	135	10
8	200	16,5	419	17,13	435	16,5	419	7,87	200	-	-	-	-	-	Gear	15	381	200	200	14
10	250	22,38	568	23	584	22	559	9,85	250	-	-	-	-	-	Gear	17,5	444,5	350	350	30
_	300		}																	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch		Inch		Inch		Inch	mm	Inch	mm			
1.1/2x1	40x25	7,51	191	8	204	7,51	191	1,58	40	0,99	25	4,72	120	10,23	260	6,1	155	11	11	6
2x1.1/2	50x40	8,5	216	9,12	232	8,5	216	1,96	50	1,54	39	4,72	120	10,6	270	6,5	165,1	16	16	10
3x2	80x50	11,1	283	11,72	298	11,14	283	3	76	1,96	50	5,12	130	10,6	270	8,25	209,6	26	26	14
4x3	100x80	12	305	12,62	321	12	305	3,94	100	2,96	75	6,1	155	14,95	380	10	254	45	45	25
6x4	150x100	15,88	403	16,5	419	18	457	5,9	150	3,78	96	7,48	190	16,55	420	12,5	317,5	81	81	46
8x6	200x150		419	17,13	435	16,5	419	7,87	200	5,9	150	9,65	245	22,8	580	15	381	150	150	97
10x8	250x200	17,9	457	18,62	473	18	457	9,85	250	7,87	200	-	-	-	Gear	17,5	444,5	320	320	23
Class	600	- FB																		
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1/2	15	6,5	165	6,44	163,5	6,5	165	0,6	15	-	-	3,5	85	5,9	150	3,75	95,2	8	8	6,
3/4	20	7,51	191	7,51	191	7,51	191	0,79	20	-	-	3,54	90	5,9	150	4,61	117	9	9	6,
1	25	8,5	216	8,5	216	8,5	216	0,99	25	-	-	4,72	120	10,23	260	4,88	124	14	14	11
1.1/2	40	9,5	241	9,5	241	9,5	241	1,58	40	-	-	4,72	120	10,6	270	6,12	155,4	15	15	9,
2	50	11,5	292	11,62	295	11,5	292	1,96	50	-	-	5,12	130	10,6	270	6,5	165,1	18	18	11,
3	80	14	356	14,12	359	14	356	3	76	-	-	6,1	155	14,95	380	8,25	209,5	42	42	3
4	100	17	432	17,12	435	17	432	3,94	100	-	-	7,5	190	16,55	420	10,74	273	80	80	64
Class	600	- RB	}																	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1.1/2x1	40x25	9,5	241	9,5	241	9,5	241	1,58	40	0,99	25	4,72	120	10,23	260	6,12	155,4	15	15	8,
2x1.1/2	50x40	11,5	292	11,62	295	11,5	292	1,96	50	1,54	39	4,72	120	10,6	270	6,5	165,1	18	18	10
3x2	80x50	14	356	14,12	359	14	356	3	76	1,96	50	5,12	130	10,6	270	8,25	209,6	32	32	1
40	100.00	177	400	17 10		17	400	2.04		0.00		0.1		1405				0.4	0.4	0

3/4"

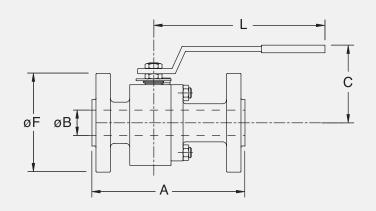
20

10,74 273 10,74 273



40 SERIES

DIMENSION & WEIGHT



Class 900 - FB

Olubb	700																			
Size DN		RF		End to End A RTJ BW		V	ØB		ØB1		С		L		ØF		Wheigh RF RTJ		s BW	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1/2"	15	8,5	216	8,5	216	8,5	216	0,6	15	-	-	3,5	85	5,9	150	4,77	121	11	11	7,5
3/4"	20	9	229	9	229	9	229	0,79	20	-	-	3,74	95	10,43	265	5,12	130	13	13	8,5
1"	25	10	254	10	254	10	254	0,99	25	-	-	4,72	120	10,23	260	5,88	149,4	17	17	10
1.1/2"	40	12	305	12	305	12	305	1,58	40	-	-	4,72	120	10,6	270	7	178	20	20	11
Class	900		}																	
Inch	mm	Inch	mm	Inch	mm		mm	Inch		Inch		Inch	mm	Inch	mm	Inch	mm			
1.1/2"x1"		12	305	12	305	12	305	1,58	40	0,99	25	4,72	120	10,23	260	7	178	18	18	9
2"x1.1/2"	50x40	14,48	368	14,6	371	14,48	368	1,96	50	1,54	39	4,72	120	10,6	270	8,5	216	26	26	22
Class 1500 - FB																				
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1/2"	15	8,5	216	8,5	216	8,5	216	0,6	15	-	-	3,5	85	5,9	150	4,77	121	11	11	7,5
3/4"	20	9	229	9	229	9	229	0,79	20	-	-	3,74	95	10,43	265	5,12	130	13	13	8,5
1"	25	10	254	10	254	10	254	0,99	25	-	-	4,72	120	10,23	260	5,88	149,4	17	17	10
1.1/2"	40	12	305	12	305	12	305	1,58	40	-	-	4,72	120	10,6	270	7	178	20	20	11
Class	150	0 - R	В																	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1.1/2"x1"	40x25	12	305	12	305	12	305	1,58	40	0,99	25	4,72	120	10,23	260	7	178	18	18	9
2"x1.1/2"	50x40	14,48	368	14,6	371	14,48	368	1,96	50	1,54	39	4,72	120	10,6	270	8,5	216	26	26	22
Class	250	0 - F	В																	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
1/2"	15	10,38	263	10,38	263	10,38	263	0,39	10	-	-	3,54	90	11,02	280	5,23	133	12	12	8

3,74 95 12,9 330 5,18 131,7

16

16 12

10,74 273 0,47 12

MATERIALS FOR THE CONSTRUCTION

The valves are manufactured in accordance with our customers' requirements taking in consideration the operating conditions (i.e. fluid condition and environmental parameters

like pressure and temperature).
A wide range of forged ferrous and non ferrous materials is available: carbon steel, low alloy steel, stainless steel, duplex stainless steel and nickel alloys, such as:

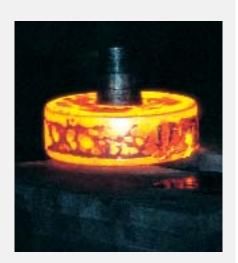
- A105/WCB
- A350 LF2/LCB
- A350 LF3/LCC



- AISI 4140
- AISI 1040
- A694 F60
- A694 F65
- A182 F6A UNS S41000
- A182 F6NM UNS S41500
- A182 F304 UNS S30400/CF8
- A182 F316 UNS S31600/CF8M
- A182 F316 UNS S31000/CF81
 A182 F316LNM UNS S31653
 A564 630 UNS S17400
 A182 F44 UNS S31254
 A182 F51 UNS S31803
 A182 UNS S32550

- A182 F53 UNS S32750 A182 F55 UNS S32760 B446 UNS S06625
- UNS N08825
- UNS N08925













STANDARD TESTS

HYDROSTATIC TEST PART **SEQUENCE** AREA **PRESSURE DESCRIPTION** DURATION (min.) **A B C** From 2 to 30 min. 1.5 x Press. Rating Shell hydrostatic test with valve depending on valve **Shell** half-open as follows: obtain 1.5 x Press. Rating hydrostatic test pressure and hold it for duration of testing. Seat seal test at "C" end towards 1.5xPress. Rating size A B C Atmospheric From 2 to 5 min. Atmospheric depending on valve body "B". **Seat** 1.1 x Press. Rating size A B 1.1xPress. Rating From 2 to 5 min. Seat seal test at "A" end towards Seat Atmospheric depending on valve body "B". C Atmospheric size

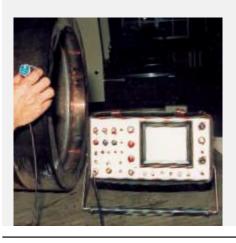
AIR TEST (supplementary tests on request) PART **SEQUENCE** AREA PRESSURE **DURATION** (min.) **DESCRIPTION** A B 5.5 bar From 2 to 5 min. Seat seal test at "A" end towards Seat Atmospheric depending on valve body "B". $\bar{\mathbf{C}}$ Atmospheric size A B Seat seal test at "C" end towards Atmospheric From 2 to 5 min. body "B". **Seat** Atmospheric depending on valve $\overline{\mathbf{C}}$ size 5.5 bar

FIRE SAFE DESIGN

All *RBR* Ball Valves are fire safe designed. The fire safe design allow to prevent any leakages through the seals when the temperature reaches levels higher than the melting point of the seals.

Each *RBR* Ball Valves seals is provided with a secondary graphite seal wich is designed to endure the high temperatures for a determinate time.

The *RBR* Ball Valves fire safe design has been approved during the appropriate tests in accordance with the API 6FA and BS 6755 standards.









OPTIONAL TESTS

In case of special requirements of the customer various optional tests can be performed:

- Magnetic particle inspection;
 Liquid penetrant test;
 Ultrasonic test;

- X-ray analisys;





SPECIAL TESTS

- Fugitive emission test;
- High pressure Nitrogen/Helium
- Low temperature test;
- Hyperbaric test.





ACTUATORS





QUALITY ASSURANCE DEVELOPMENT

Under the constant supervision of the management and thanks to the large investments in human resources and equipment, **PRP** has grown to the point of

RBR has grown to the point of being today regarded as a world class high quality valve manufacturer with the ISO 9001 accreditation certified by a primary International Independent Inspection Agency and API 6D monogramming authorisation.

The quality and reliability of *RBR* Ball Valves are checked, verified and guaranteed by the implementation of appropriate engineering and design, procurement, production processes, to the final acceptance test, as well as by endurance type-testing.

Working in an International multistandards environment *RBR* assure the capability to



comply with the most demanding Customer's requests and specifications.

All production processes,

both standard and special, are identified, implemented, verified and managed by highly qualified personnel who under go

periodically scheduled training courses.



CUSTOMER SATISFACTION is the mission of *RBR*, with no compromises.

SERVICE

A dedicated team of skilled technicians are available on 24 hours base, to quikly and professionally respond to all our Customer's needs in case of emergency situations.

On request we can provide personnel for specific planned standard or preventive maintenance.



On site supervision and assistance are available as well as specific training courses according to Customer's requirements

to Customer's requirements.
Most commonly used spare
parts are available from stock and
full parts interchangeability is
guaranteed.











RBR'S PRODUCTION

























SUBSEA BALL VALVE

HYPERBARIC TEST

24" 900 TOP ENTRY

PRODUCT RANGE



Bolted Body Trunnion Mounted Ball Valves.



Welded Body Trunnion Mounted Ball Valves.



Top Entry Trunnion Mounted Ball Valves.



Three-Pieces Ball Valves.

70 Series

One-Piece Ball Valves.

30Y Series

Flanged Three-Way Ball Valves 120°.

30T Series

Flanged Three-Way Ball Valves 90°.

34 Series

Flanged Three-Way Ball Valves 90°.

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e-mail: sales@rbr.it www.rbr.it



40 Series

Floating Split / One Piece Body Ball Valves.



Wafer Type Ball Valves.

11 Series

Jacketed Wafer Type Ball Valves.



Threaded Three-Way Ball Valves.

70HP Series

One-Piece Ball Valves High Pressure.

103 Series

Three-Way Wafer Type Two Seats Ball Valves 90°.

103 Series

Three-Way Wafer Type Three Seats Ball Valves 90°.



ACCESSORIES

Parts for Automatic Operations.



RBR Valvole S.p.A. Via Giacomo Brodolini, 2/4

