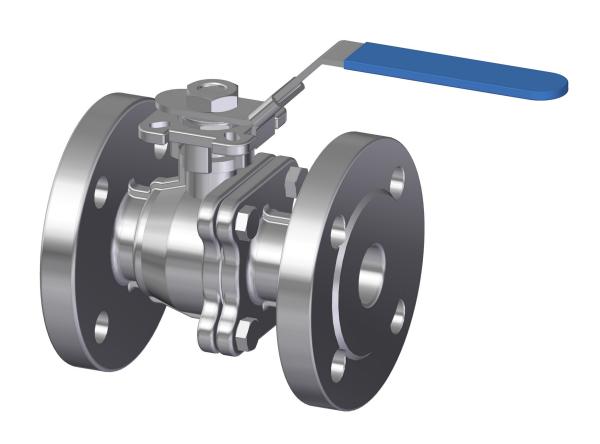


2PC BALL VALVE FLANGED RV-2F

USER MANUAL

1/2"-8"(DN15-DN200)



APPLICATION

A split-body (2-piece) ball valve which offers a practical solution for various systems, providing reliable on/ off or regulating functionality across a 0° - 90° range. The standard handle mechanism affords straightforward manual operation, ideal for quick on/off tasks. For more complex control or regulating tasks, these valves are readily adaptable to direct actuator mounting, thanks to their ISO 5211 compliant design and square shaft/stem eliminating the need for additional brackets.

Constructed with CF8M grade stainless steel for the body and cap and F316 grade for the ball, the valve is robust for industrial use and compatible with a diverse range of media. Recognized for their cost-effectiveness, these valves provide a budget-friendly option while ensuring reliable performance.

They are routinely available with DN flanges, with ANSI flanges offered upon request to meet different installation standards.

FEATURES

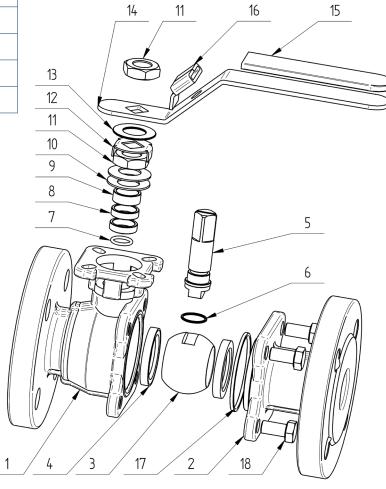
- Full Bore Design: Offers a large flow passage with minimal resistance to fluid flow, ensuring efficient 1. operation.
- Quick Actuation: Engineered for rapid opening and closing times, featuring a soft seal that enhances 2. performance and durability.
- Maintenance-Friendly: The 2-piece design allows for straightforward assembly and disassembly. 3. Maintenance can be performed in-situ, reducing downtime.
- Safety Assured: Incorporates a blowout-proof stem design, heightening operational safety. 4.
- Enhanced Sealing: All stainless-steel valves come with V-type packing, designed to improve stability and seal integrity under increased load and temperature conditions.

V-Packing Section View

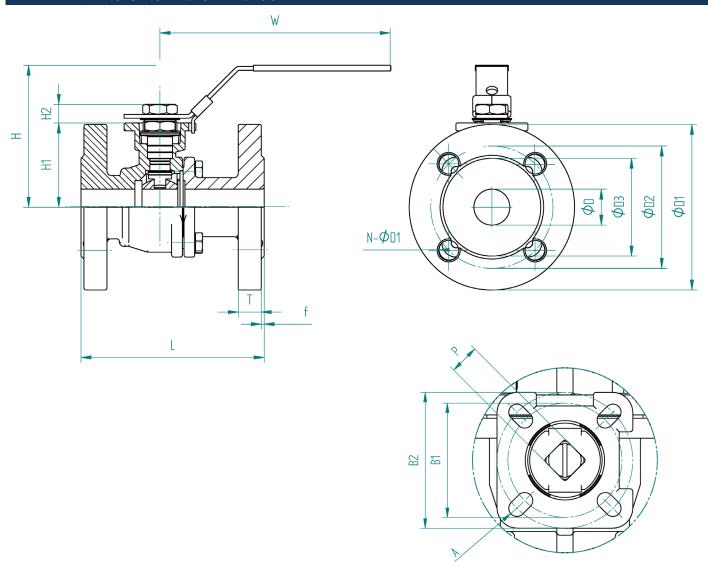


MATERIALS

Part	Material
Body	A351-CF8M
Сар	A351-CF8M
Ball	SS316
Ball Seat	PTFE
Stem	SS316
Thrust Washer	PTFE
O-Ring	VITON
Stem Packing	PTFE
Gland Nut	SS304
Washer	SS301
Nut	SS304
Thrust Washer	SS304
Washer	SS304
Handle	SS304
Handle Cover	Plastic
Locking Device	SS304
Body Gasket	PTFE
Assembly Bolts	SS304
	Body Cap Ball Ball Seat Stem Thrust Washer O-Ring Stem Packing Gland Nut Washer Nut Thrust Washer Washer Handle Handle Cover Locking Device Body Gasket

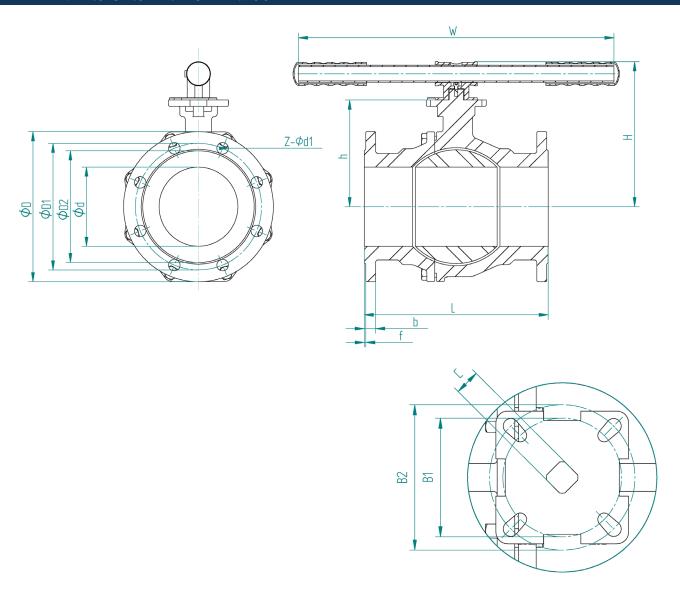


DIMENSIONS DN15 - DN100



Size	D	L	D1	D2	D3	Т	f	Н	W	Р	B1/B2	N-ØD1	Н1	Weight (kg)	А	H2
1/2"	15	115	95	65	45	14	2	80	140	9	F03/ F04	4-Ø14	48	2.91	3	8
3/4"	20	120	105	75	58	16	2	85	140	9	FO3/ FO4	4-Ø14	53	3.38	3	8
1"	25	125	115	85	68	18	2	95	160	11	F04/ F05	4-Ø14	59	3.73	3	11
1-1/4"	32	130	140	100	78	18	2	108	160	11	F04/ F05	4-Ø18	<i>7</i> 1	4.95	3	11
1-1/2"	38	140	150	110	88	18	3	114	185	14	F05/ F07	4-Ø18	76	6.1	3.5	14
2"	50	150	165	125	102	20	3	124	185	14	F05/ F07	4-Ø18	85	8.9	3.5	14
2-1/2"	65	170	185	145	122	18	3	148	230	17	F07/ F10	4-Ø18	101. 5	12.8	4.5	17
3"	76	180	200	160	138	20	3	158	250	17	F07/ F10	8-Ø18	111.5	18.9	4.5	17
4"	94	190	220	180	158	20	3	191	320	17	F07/ F10	8-Ø18	141	26.6	4.5	22

DIMENSIONS DN 125 - DN 200



Size	d	L	D	D1	D2	Ь	f	h	W	С	B1/B2	Z-Ød1	h	Weight (kg)
5"	125	325	250	210	188	22	3	260	600	22	F10/F12	8-Ø18	185	50.5
6"	150	350	285	240	212	22	3	278	600	22	F10/F12	8-Ø22	202.5	76.8
8"	200	400	340	295	268	24	3	340	800	27	F12/F14	12-Ø22	257	125

USER MANUAL - BALL VALVE FLANGED

STANDARDS

Flange: EN 1092-1

Face to face:

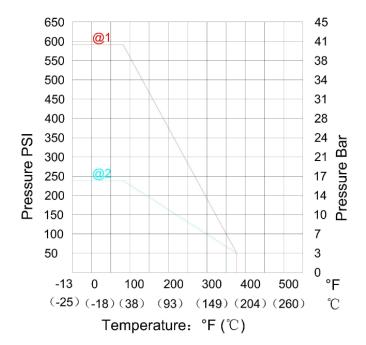
DN15 - DN100: DIN 3202-F4 DN125 - DN200: DIN 3202-F5

Top Flange: ISO 5211 Pressure Test: API598

TECHNICAL PERFORMANCE

Nominal Pressure		N15 - DN50 N65 - DN200		
Shell Test	PN40	6MPa		
Shell lest	PN16	2.4MPa		
Air s	0.6MPa			
Service ⁻	-25°C-180°C			
Suitab	Water, steam, oil, etc.			

PRESSURE-TEMPERATURE CHART



@1:1/2"~2".

@2:21/2"~8".

BALL VALVE TORQUE

The following torque values are net values excluding a safety factor. Please apply a safety factor of 30%.

DN	Size	Torque (Nm)
DN15	1/2"	5
DN20	3/4"	8
DN25	1"	10
DN32	1 1/4"	14
DN40	1 ½"	18
DN50	2"	25
DN65	21/2"	48
DN80	3"	75
DN100	4"	110
DN125	5"	200
DN150	6"	300
DN200	8"	400

Note:

The above torque values were measured during wet (water and other non-lubricating media) on-off use. For dry use (non-lubricating, dry gas media), multiply values by 1.6.

For lubricating media use (clean, non-abrasive lubricating media), multiply values by 0.85.

OPERATION

- 1. Turn the handle clockwise 1/4 circle (90°) to close the valve. Turn the handle counterclockwise 1/4 circle (90°) to open the valve. The direction of the arrow shows "ON" as "open", or "OFF" as "close" on the plastic cover of the handle.
- 2. When the handle is parallel to the pipeline, the valve is open. When the handle is at a 90° angle to the pipeline, the valve is closed.

FLOW CHARACTERISTICS

S	Size			
DN15	1/2"	19		
DN20	3/4"	40		
DN25	1"	65		
DN32	1 1/4"	110		
DN40	1 ½"	180		
DN50	2"	365		
DN65	2½"	495		
DN80	3"	970		
DN100	4"	1620		
DN125	5"	2530		
DN150	6"	4050		
DN200	8"	8650		

INSTALLATION

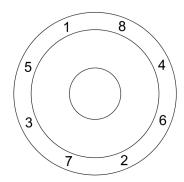
- In order to prevent damage to the seat and ball surface, the pipeline needs to be flushed, free of dirt, 1. welding residue, etc. Check the inside of the pipe and ball valve before installation. If necessary, clean with clean water and a soft brush.
- 2. Make sure that the valve pressure class and operating temperature is suitable for the intended use and pipeline settings. Please consult the pressure-temperature chart to verify.
- Make sure that the flanges fit the valve and insert the valve. 3.
- The recommended tightening torques are shown in the table below. 4.

BOLT TIGHTENING TORQUES

Recommended Torques:

Size Range	Bolt Size	Min. Bolt Torque (Nm)	Max. Bolt Torque (Nm)
½"-1" (DN15-DN25)	M12	20	40
11/4"-5" (DN32-DN125)	M16	30	100
6"-8" (DN150-DN200)	M20	50	200

Bolt Tightening Cross Over Pattern



MAINTENANCE

- Disassembly 1.
 - 1.1 Loosen the nuts, the spring washers and the bolts. Remove the caps, the body gasket, the ball seats and
 - 1.2 Loosen the nut and spring washer and remove the handle.
 - 1.3 Loosen the gland nut to remove the stem and thrust washer. Remove the stem packing with a suitable tool. If the stem packing will not come off, break it apart to remove it completely.
- Clean all metal parts with clean water and a soft brush. Clean PTFE (teflon) parts with clean water. Check 2. all parts and replace if necessary.
- Re-assemble the valve. 3.

USER MANUAL - BUTTERFLY VALVE



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