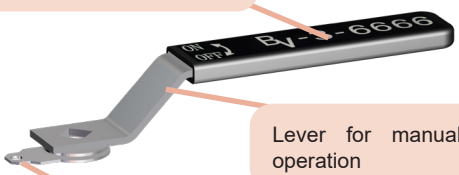
3 pcs. Floating Ball Valves - *Direct Mounting*

These are floating type, quick closing 90º rotary 3 pcs. ball valves, bidirectional, with tightness achieved by friction of the ball blind ends to the seats, devised for stopping the flow of the service fluid when necessary and not being suitable for regulation purposes. Valve closes by turning the handle lever clockwise. Their lost was casting technology and stainless steel/PTFE construction provides an excellent surface finish and a wide range of applications. They are designed for quick and easy automation when required.

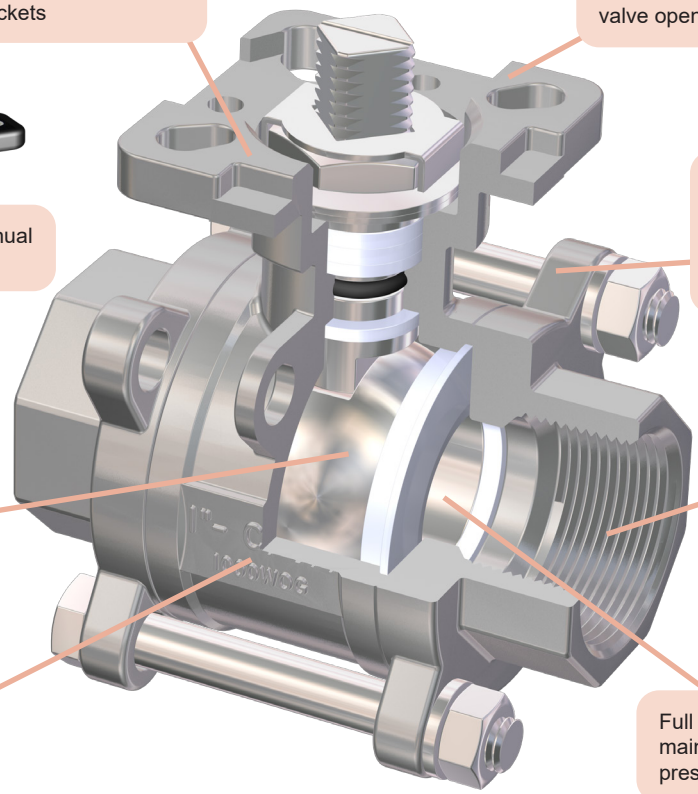
Direct mounting pad with top flange and square stem with bevelled edges acc. to ISO 5211 to suit actuators. Easy and inexpensive automation with no need for brackets

Stroke limiter to 90º, secure valve opening and shutting

Vinyl sleeved, quick and comfortable handling



Lever for manual operation



Interchangeable ends by means of studs, other valve ends can be accommodated.

Locking device and padlock arrangement for unauthorized operations

Threaded, socket weld or butt weld end connections

Polished mirror ball surface, fully made out of stainless steel

Size, Material and Design Pressure engraved in the valve body.

Full bore, in line maintenance and less pressure drop.

Main Features

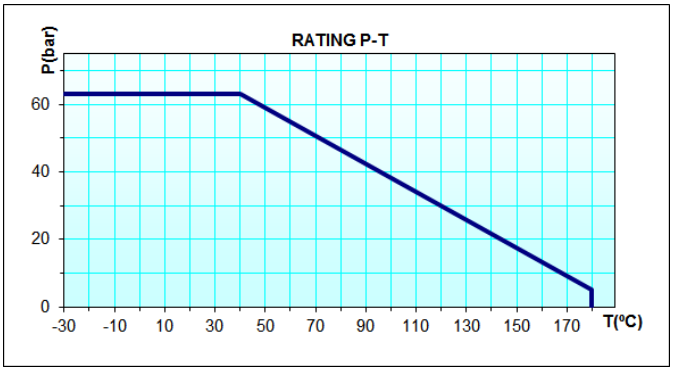
Nominal Pressure: PN63
Valve end connections:
- Pipe thread in acc. to DIN259, ISO228 CLASS A
- Socket weld ends (_SW_)
- Butt weld ends (_S0_)

Top flange: ISO 5211
Marking: EN 19
Pressure Tests: EN 12266-1
Seat leakage rate: Rate A (full seat tightness in both directions)

Main Duties / Limits of use

Liquids and gases compatible with materials of construction
Questions referring to chemical resistance, please consult us

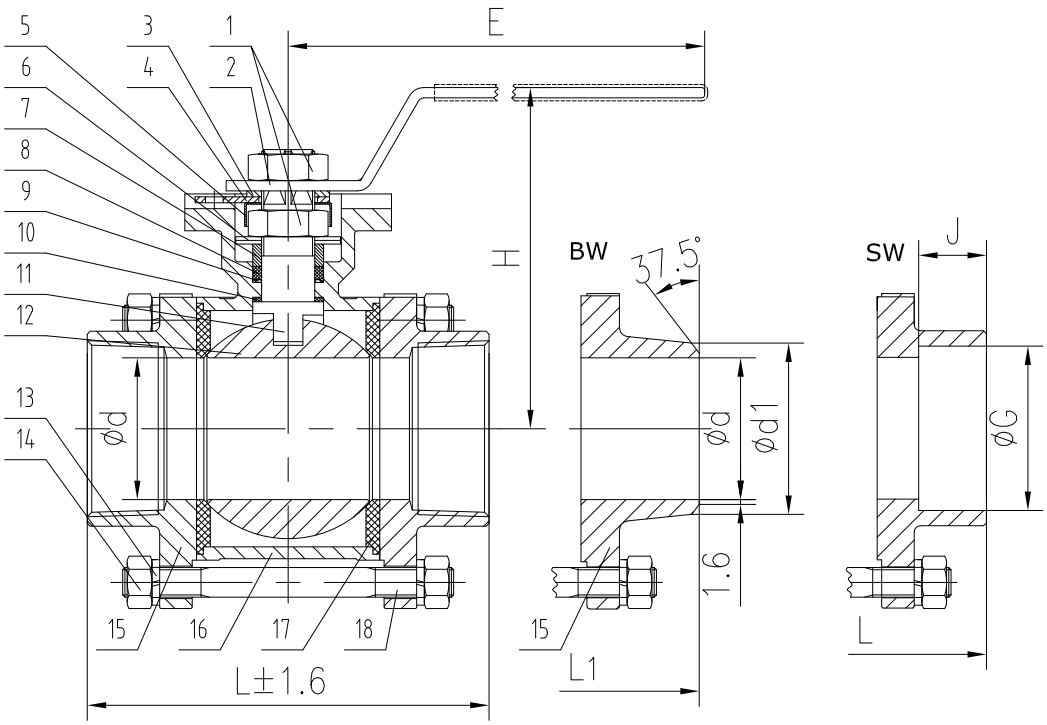
PS max	63 bar	**TS**	40ºC / -30ºC
PS	5 bar	**TS max**	180ºC / -30ºC

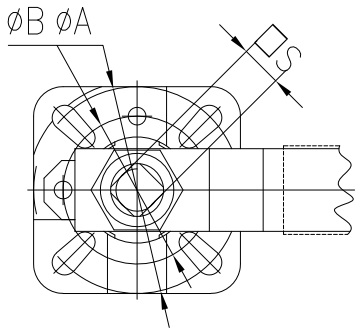


Options

Other designs and approvals, limit switches, different actuation. Please consult us

Main Parts and Materials





No.	PART	MATERIAL
1	NUT	St. steel 304
2	HANDLE	St. steel 201
3	METALLIC GASKET	St. steel 304
4	LIMIT STOP	St. steel 304
5	STOP-LOCK-CAP	St. steel 304
6	BELLEVILLE WASHER	St. steel 304
7	GLAND	St. steel 304
8	PACKING	PTFE
9	O-RING	NBR
10	THRUST WASHER	PTFE
11	STEM	St. steel 316
12	BALL	St. steel 316
13	SPRING WASHER	St. steel 304
14	NUT	St. steel 304
15	CAP	St. steel CF8M
16	BODY	St. steel CF8M
17	SEAT	PTFE
18	BOLT	St. steel 304

Information / restriction of technical rules need to be observed!
Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

The engineer, designing a system or a plant, is responsable for the selection of the correct valve
Product suitability must be verified, contact manufacturer for information

Main Valve Parameters

DN		NPS	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
		mm	15	20	25	32	40	50	65	80	100
MAIN DIMENSIONS	L		70	80	90	110	120	137	158	200	237
	Ød		15	20	25	32	38	49	65	76	96
	Ød1		21,3	26,7	33,4	42,2	48,3	60,3	73	88,9	114,3
	ISO 5211		F03-F04	F03-F04	F04-F05	F04-F05	F05-F07	F05-F07	F07-F10	F07-F10	F07-F10
	ØB		Ø36	Ø36	Ø42	Ø42	Ø50	Ø50	Ø70	Ø70	Ø70
	ØA		Ø42	Ø42	Ø50	Ø50	Ø70	Ø70	Ø102	Ø102	Ø102
	R1		R3	R3	R3	R3	R3,5	R3,5	R4,5	R4,5	R5,75
	R2		R3	R3	R3,5	R3,5	R4,5	R4,5	R5,5	R5,5	R6,75
	□S		9	9	11	11	14	14	17	17	19
	BW	L1	69	79	88	110	116	142	183	202	242
	SW	ØG	21,7	27	33,8	42,5	48,6	61,1			
		J	10	13	13	16	16	18			
LEVER		H	60	64	79,5	84	106	115,5	136	147	165
		E	125	125	155	155	195	195	245	245	300
Kvs-value			24	44	74	97	149	338	478	800	1129
Approx. Weight			1,0	1,0	1,5	2,0	3,0	5,0	9,0	14,0	22,0

Dimensions in mm subject to manufacturing tolerance / Kvs-values in m^3/h / Weights in kg

Operating Torques

Size	Standard Disc Differential Pressure					
DN (mm)	5 bar	10 bar	20 bar	50 bar	63 bar	Valve Connection
15	7,8	7,8	7,8	7,8	7,8	F03-F04 S9 h7
20	10,4	10,4	10,4	10,4	10,4	F03-F04 S9 h8
25	17	17	17	17	17	F04-F05 S11 h11
32	21	21	21	23	25	F04-F05 S11 h11
40	26	26	34	39	45	F05-F07 S14 h14
50	36	49	52	69	62	F05-F07 S14 h14
65	65	78	81	104		F07-F10 S17 h17
80	84	104	117	169		F07-F10 S17 h17
100	143	195	247	312		F10-F12 S22 h22

Torques in Nm
Minimum Recommended Safety factor for actuator selection: 30%
Above values are given for clean water at ambient temperature.
Operating Torque can be increased by many factors (dry gas, viscous liquid, temperature, etc.). Ask our technical department for selection.
Valves closed for a long period of time could need a higher breaking torque

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The engineer, designing a system or a plant, is responsable for the selection of the correct valve
Product suitability must be verified, contact manufacturer for information