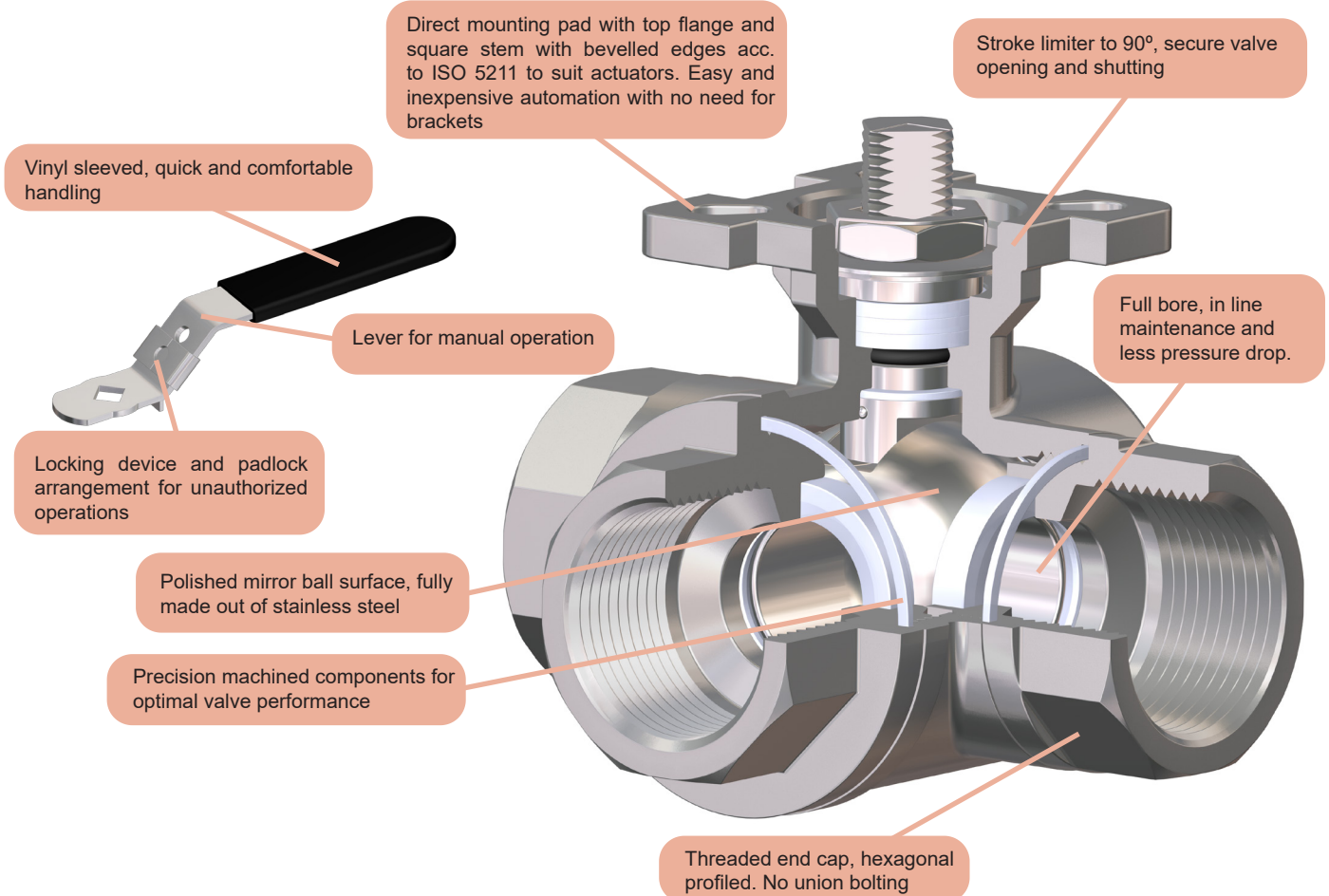


## 2/3 ways Floating Ball Valves - Direct Mounting

These are floating type, quick closing 90° rotary 3 way ball valves, bidirectional, with tightness achieved by friction of the ball blind ends to the seat, devised to handle different flow directions in a pipe system and not being suitable for regulation purposes. Valve closes by turning the handle lever clockwise. Their lost wax 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.



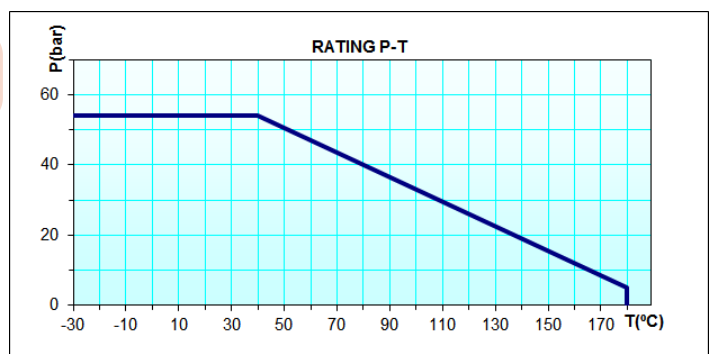
### Main Features

Nominal Pressure: PN63  
 Valve end connections: Pipe thread in acc. to DIN259, ISO228 CLASS A  
 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

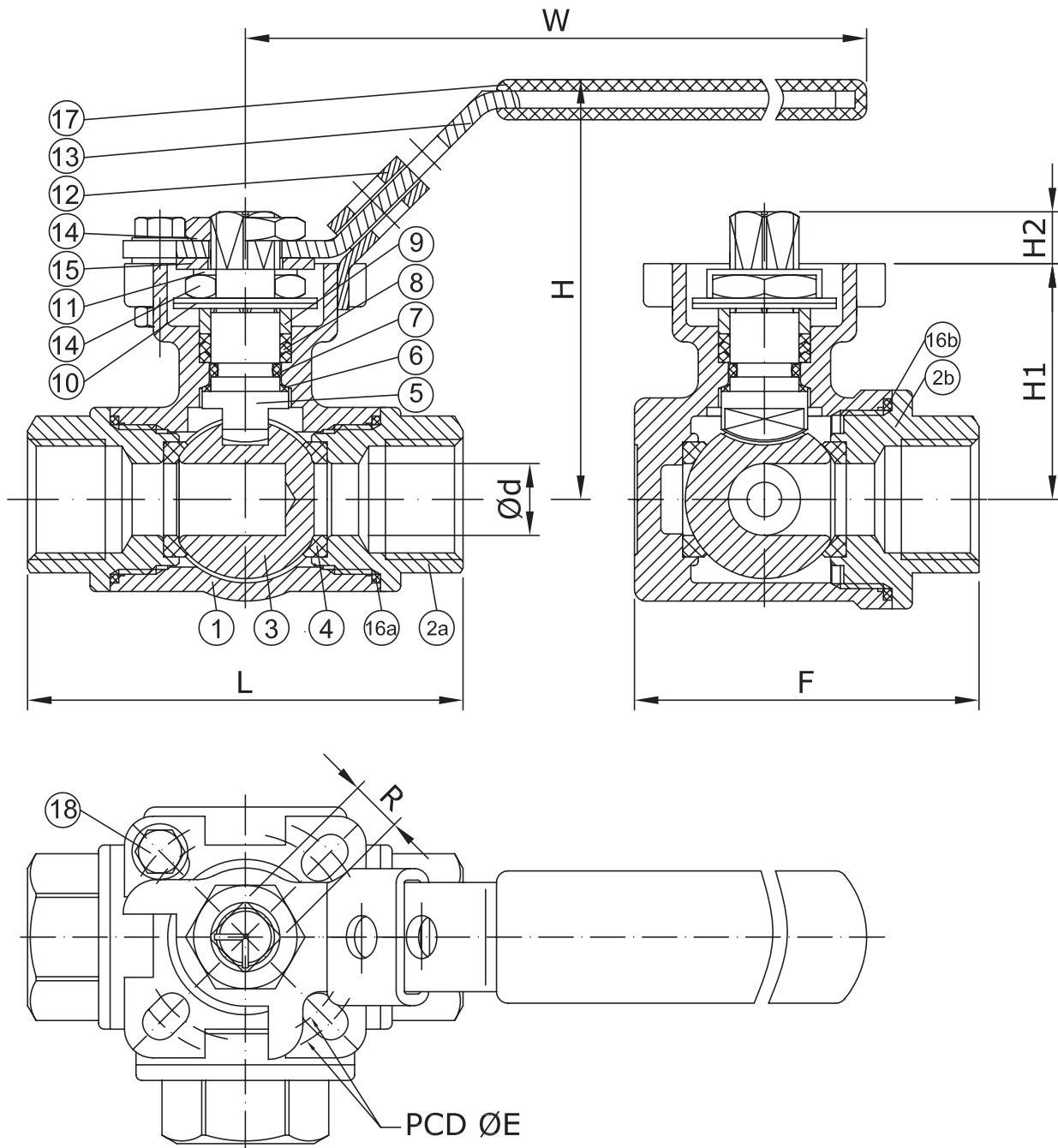
<b>PS max</b>	63 bar	<b>TS</b>	40°C / -30°C
<b>PS</b>	5 bar	<b>TS max</b>	180°C / -30°C



### Options

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

# Main Parts and Materials











Nº	PART	MATERIAL	Nº	PART	MATERIAL
1	BODY	St. Steel CF8M	10	BELLEVILLE WASHER	St. Steel SS304
2a	CAP A	St. Steel CF8M	11	STOP WASHER	St. Steel SS304
2b	CAP B	St. Steel CF8M	12	LOCKING DEVICE	St. Steel SS304
3	BALL	St. Steel CF8M	13	HAND LEVER	St. Steel SS304
4	SEAT	PTFE	14	STEM NUT	St. Steel SS304
5	STEM	St. Steel SS316	15	HANDLE WASHER	St. Steel SS304
6	THRUST WASHER	RPTFE	16a	GASKET A	PTFE
7	O-RING	Viton	16b	GASKET B	PTFE
8	STEM PACKING	PTFE	17	PLASTIC COVER	Plastic/Plástico
9	GLAND	St. Steel SS304	18	STOP PIN (BOLT & NUT)	St. Steel SS304

## 2/3 ways Floating Ball Valves - Direct Mounting

### Main Valve Parameters

DN	mm	15	20	25	32	40	50
	NPS	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
MAIN DIMENSIONS	L	82	82	90	128	136	150
	Ød	12.5	16	20	25	32	38
	F	54	60	68	95	105	117
	H	67	69	81	88	104	108
	W	125	125	155	158	190	190
	H1	38	40	48	57	68	75
	H2	9	10	12	12	16	16
	ØE	Ø36/Ø42	Ø36/Ø42	Ø42/Ø50	Ø42/Ø50	Ø50/Ø70	Ø50/Ø70
	R	9	9	9	11	14	14
Approx. Weight		1	1,5	2	3	4	6

Dimensions in mm subject to manufacturing tolerance / Weights in kg

Port	1	2	3	4
Type				
L				
T				

### Kvs-value

DN		L-Port	T-Port Single Flow		T-Port Branch Flow	
mm	NPS	90°	180°	90°	180°	90°
6	1/4"	0,6	0,8	0,4	0,9	0,6
10	3/8"	1,2	1,6	0,9	2,1	1,2
15	1/2"	3,2	4,2	2,8	4,7	3,2
20	3/4"	6,3	8,0	5,4	9,5	6,3
25	1"	12	15	10	17	12
32	1-1/4"	19	23	16	26	19
40	1-1/2"	32	41	27	47	32
50	2"	51	65	43	72	51

Kvs-values in m³/h

### Operating Torques

Size	Standard Disc Differential Pressure					Valve Connection
DN (mm)	5 bar	10 bar	20 bar	50 bar	63 bar	
6 & 10	8,6	8,6	8,6	8,6	8,6	F03-F04 S9
15	8,6	8,6	8,6	8,6	8,6	F03-F04 S9
20	10,4	10,4	10,4	10,4	10,4	F03-F04 S9
25	15	15	15	15	15	F04-F05 S11 h11
32	29	29	29			F04-F05 S11 h11
40	47	47				F05-F07 S14 h14
50	58					F05-F07 S14 h14

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

Information / restriction of technical rules need to be observed!

Installation, Operating and Maintenance Manual can be downloaded at [www.comeval.es](http://www.comeval.es)

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