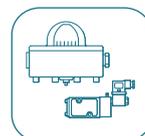
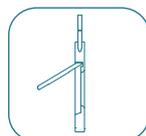
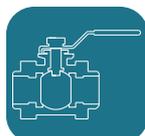
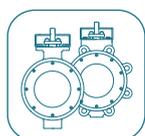
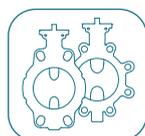


## 3-way thread ends ball valve

Fig.161



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# General information, dimensions

## Features

- **4 seats design** which allows input flow in all ends without the occurrence of bypass (leakage) behind the ball.
- **Traceability:** heat numbers on main parts of each valve. Material certificate EN10204-3.1 can be delivered on request.
- **ISO 5211 top flange** with square stem for direct mounting of actuator without using bracket or coupling.
- CE, ATEX, SIL approved.

## General specification

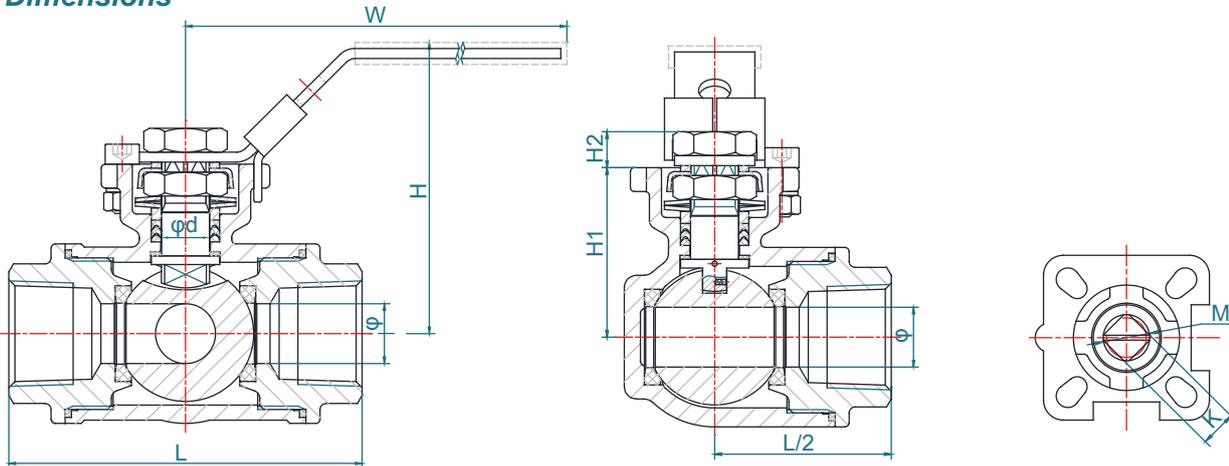
Connection:	Thread ends BSPP
Port:	L port, T port
Size range:	1/2" - 2", RB
Pressure rating:	63bar
Top flange:	ISO5211
Body/ball/stem:	Stainless steel 316
Sealing:	PTFE
Tightness:	ANSI/FCI 70-2 - Class VI ISO 5208 / EN 12266-1 - Rate A API 598 - Bubble-tight



\* Other materials or end connections are available on request.

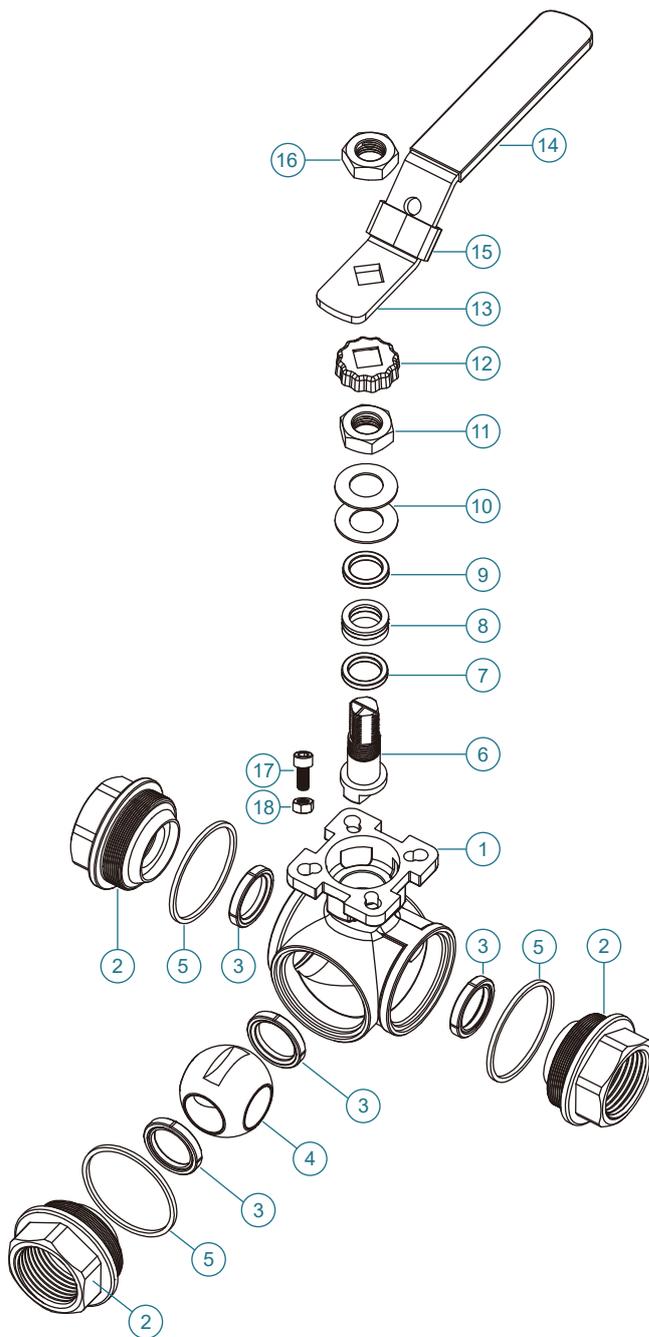


## Dimensions



SIZE		φ	H	L	d	H1	H2	W	ISO5211	K	M
INCH	DN										
1/2"	15	12	77	72	12	43	10	120	F03+F04	9	M12
3/4"	20	15	80	80	12	46	10	140	F03+F04	9	M12
1"	25	20	92	100	14	57	12	150	F04+F05	11	M14
1 1/4"	32	25	99	115	14	64	12	165	F04+F05	11	M14
1 1/2"	40	32	110	128	18	75	15	190	F05+F07	14	M18
2"	50	38	115	148	18	78	15	220	F05+F07	14	M18

# Material part list



NO.	Part Name	Material	NO.	Part Name	Material
1	Body	A351 CF8M	10	Belleville washer	SS301
2	Cap	A351 CF8M	11	Stem nut	SS304
3	Seat	PTFE	12	Stop lock cap	SS304
4	Ball	SS316	13	Handle	SS304
5	Body gasket	PTFE	14	Handle sleeve	Vinyl
6	Stem	SS316	15	Handle lock	SS304
7	Stem sealing	PTFE	16	Handle lock nut	SS304
8	V-packing	PTFE	17	Stop bolt	SS304
9	Packing gland	SS304	18	Nut	SS304

\* Other seat materials are available on request.

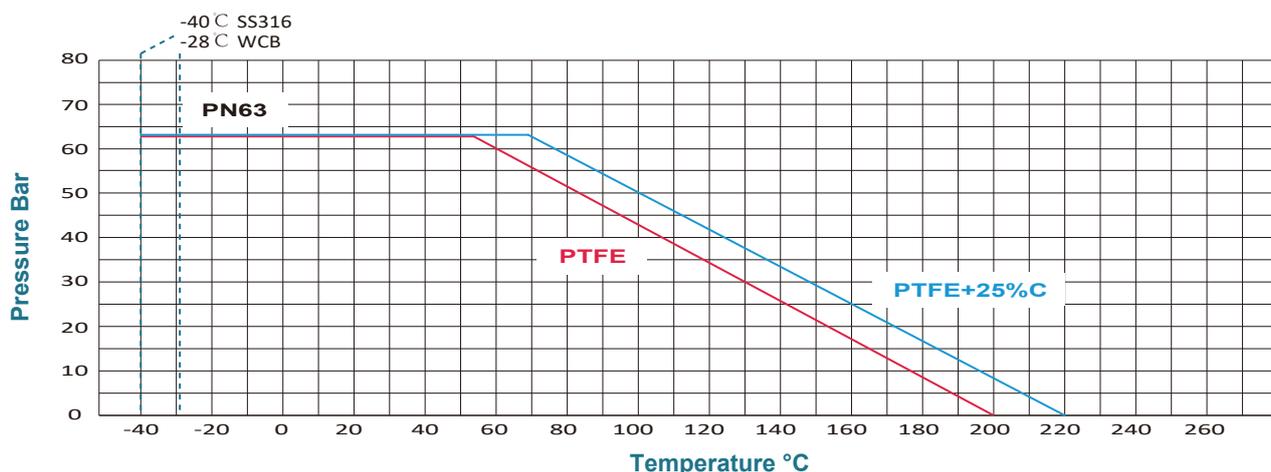
# Technical data, flow patterns

## Technical data

SIZE		Torque <sup>1)</sup> [Nm]	Kv <sup>2)</sup> [m <sup>3</sup> /h]		
INCH	DN		T port (Straight)	L port (Branch)	L port
1/2"	15	8.4	8	6	7
3/4"	20	10.8	11	7	9
1"	25	13.2	20	13	15
1 1/4"	32	24	28	18	26
1 1/2"	40	33.6	46	35	40
2"	50	42	70	45	58

1) Torque value is based on PTFE seat without safety factor (Test: 0bar differential pressure, ambient temperature, non-lubricating). Please consider a safety factor of 1.5 when sizing actuators.  
 2) Kv-value rated flow coefficients (m<sup>3</sup>/h at 1 bar ΔP).

## Pressure temperature curve



### Remark:

1) The pressure-temperature curve above represents the theoretical performance of PTFE and PTFE+25% carbon materials. However, actual pipeline conditions may impact the valve's overall performance. Please evaluate and consider the specific application conditions comprehensively.  
 2) Standard sealing material PTFE.

## Flow patterns

**OBS: Remember to specify the Start/End Position when ordering.**



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