

Warning: count(): Parameter must be an array or an object that implements Countable in /var/www/vhost/www.omal.it/htdocs/classes/Prodotto.php on line 390

Warning: count(): Parameter must be an array or an object that implements Countable in /var/www/vhost/www.omal.it/htdocs/classes/Prodotto.php on line 405

Item 450-451 stainless steel ball valves



Macro Ball valves

Category Other stainless steel ball valves

3 way 4 seals, full-bore threaded-ends stainless steel ball valve, "T" or "L" port

ITEM 450
Valve "T" port
ITEM 451
Valve "L" port

features

GENERAL FEATURES:

- The valve is manufactured in 316L stainless steel with 4 seals on ball. See plant for the operation.
- Working temperature: from -20°C to +150°C
- Working pressure: see table.
- Fluid range: food industry.
- Surface treatment: polished.
- Threaded ends as per ISO 228 specifications.
- ISO 5211 flange connection.
- **The manual version (with lever) doesn't have the ISO 5211 flange connection and its therefore not possible to mount on it any kind of actuators.**

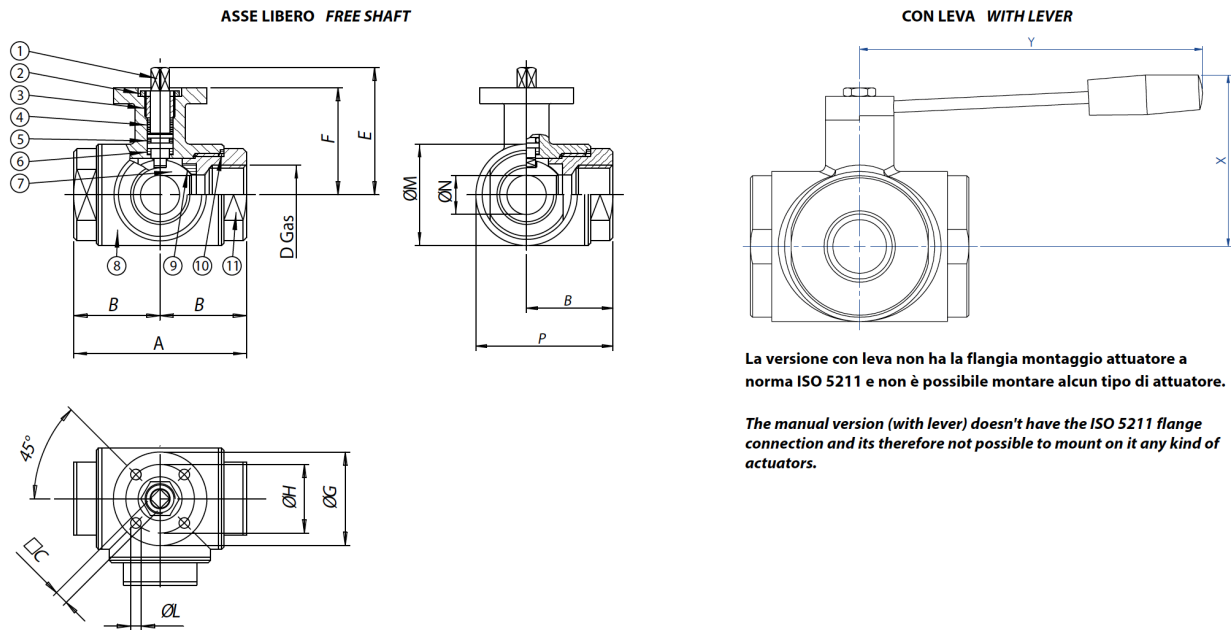
ON REQUEST:

- Connection: NPT.
- Seals made of:
 - PTFE glass filled,
 - PTFE with carbon graphite,
 - High-molecular weight polyethylene.
- For other applications, please contact our sales department.

CERTIFICATIONS:

- ATEX version in conformity with European Directive 2014/34/EU.
- ATEX certificate on request.

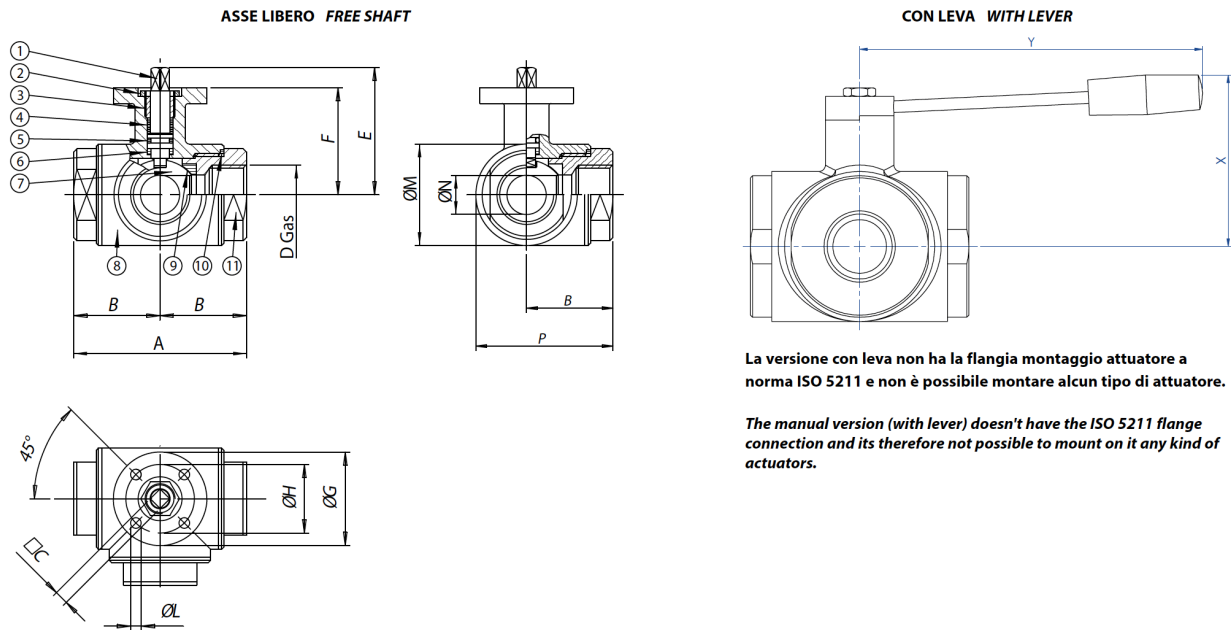
dimensions



DIMENSIONS

SIZE		A	B	□C	D	E	F	øG	øH	øL	øM	øN	P	X	Y
DN [mm]	[inch]														
DN 10	3/8"	72	36	6	3/8"	54,5	46,5	46	36	6	45	12	58,5	60	110
DN 15	1/2"	82	41	6	1/2"	57	49	54	42	6	52	15	67	65	110
DN 20	3/4"	92	46	9	3/4"	69,5	56,5	65	50	7	60	20	76	70	160
DN 25	1"	102	51	9	1"	74	61	65	50	7	70	25	86	80	160
DN 32	1" 1/4	118	59	14	1" 1/4	94,5	81,5	90	70	9	85	32	101,5	95	190
DN 40	1" 1/2	134	67	14	1" 1/2	102	89	90	70	9	100	40	117	110	190
DN 50	2"	144	72	17	2"	106,5	91,5	90	70	9	110	50	127	120	220
DN 65	2" 1/2	160	80	17	2" 1/2	116,5	101,5	125	102	11	122	65	141	130	285
DN 80	3"	200	100	17	3"	134	116	125	102	11	150	80	175	145	310
DN 100	4"	240	120	17	4"	149	131	125	102	11	192	100	216	160	310

materials



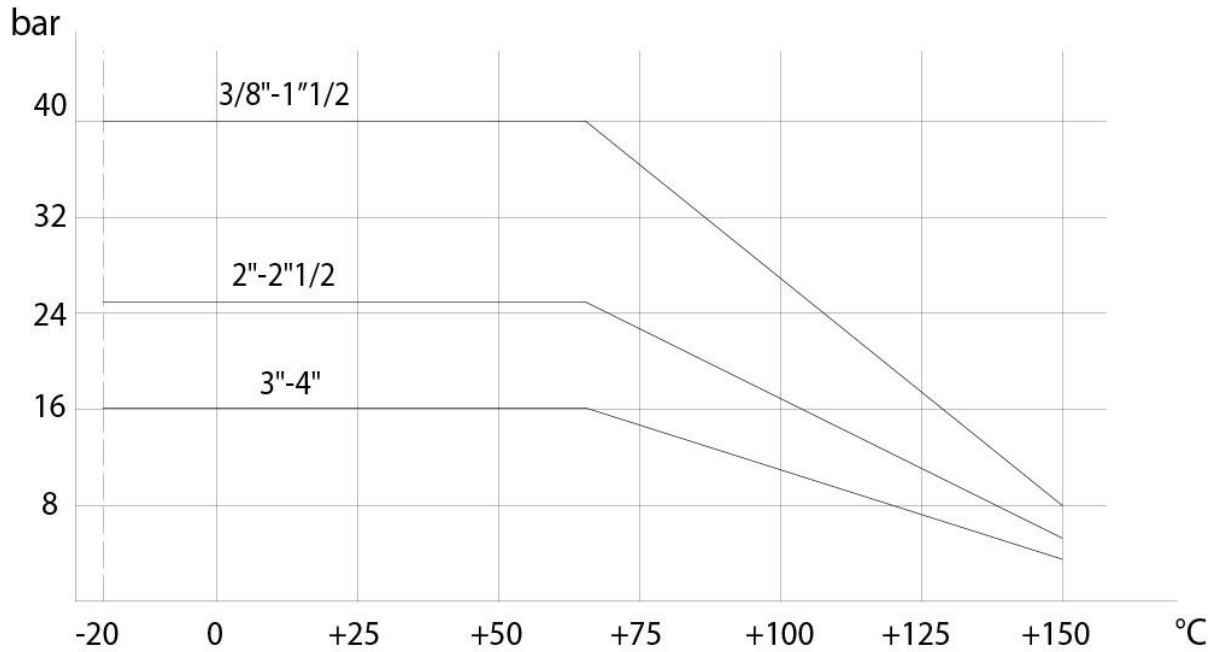
MATERIALS

1	Shaft	316L S.S.	1.4401	UNI X2CrNiMo 17 12
2	Nut	303 S.S.		
3	Gland nut ring	304L S.S. (303 S.S.)		
4*	Top tight ring	P.T.F.E.		
5*	Shaft o-ring	FKM		
6*	Washer	P.T.F.E.		
7	Ball	316L S.S.	1.4401	UNI X2CrNiMo 17 12
8	Body	316L S.S.	1.4401	UNI X2CrNiMo 17 12
9*	Seals	P.T.F.E.		
10*	End sealings	P.T.F.E.		
11	End	316L S.S.	1.4401	UNI X2CrNiMo 17 12

* Components of spare part kit KGBV45...

diagrams and breakaway torque

Pressure/temperature diagram



BREAKAWAY TORQUES Nm										
SIZE	DN 10 3/8"	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 32 1"1/4"	DN 40 1"1/2"	DN 50 2"	DN 65 2"1/2"	DN 80 3"	DN 100 4"
PN 16 bar									212	304
PN 25 bar							83	142		
PN 40 bar	9	18	23	27	36	54				

Torque can vary depending on temperature and type of fluid; a safety factor of 1.4 must be applied. Torque can drop on high frequency of operations. The actuator/valve sizing, indicated on the following pages, are based for valves to be used with liquids or gaseous fluids, clean, and for medium temperatures. For further information, or different uses please contact our sales department.

specifications

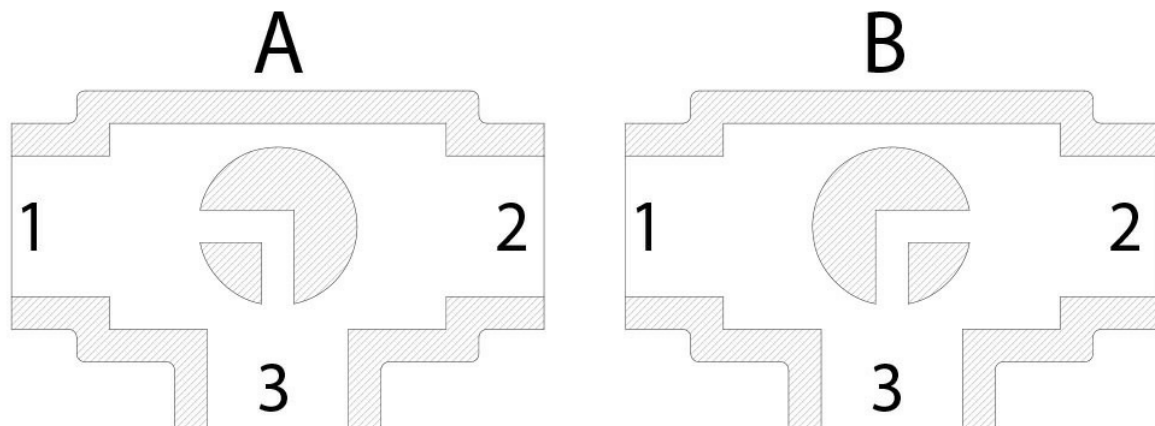
Plan for "L" port

N.B.:

"A" must be the rest position of the ball with **SR FAIL CLOSE** actuator.

"B" must be the rest position of the ball with **SR FAIL OPEN** actuator.

View from above



Plan for "T" port

With actuator 2 positions with 90° rotation are possible only: the configuration of the ball must always be communicated at our sales department.

N.B.:

Choose the rest position of the ball with **SR FAIL CLOSE** actuator; whenever supplied with air, actuator turns in an anticlockwise direction.

Choose the rest position of the ball with **SR FAIL OPEN** actuator; whenever supplied with air, actuator turns in a clockwise direction.

View from above

