

**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

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## Item 464-465 stainless steel ball valves



Macro Ball valves

Category Other stainless steel ball valves

3 way 4 seals, full-bore stainless steel ball valve, "T" or "L" port, DIN 11851 threaded-ends

ITEM 464  
Valve "T" port  
ITEM 465  
Valve "L" port

### features

#### GENERAL FEATURES:

- The valve is manufactured in 316L stainless steel and suggested for particular hygienic conditions (food industry applications).
- Valve with 4 ball seats. Inlet from any of the 3 ends. It can also shut of the flow.
- Ends: as per DIN 11851 specifications.
- Working temperature: from -20°C to +150°C
- Working pressure: see table.
- Fluid range: food industry.
- 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.**

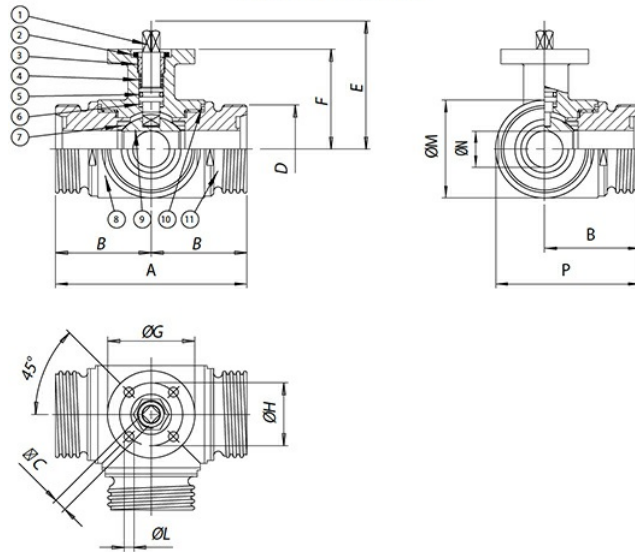
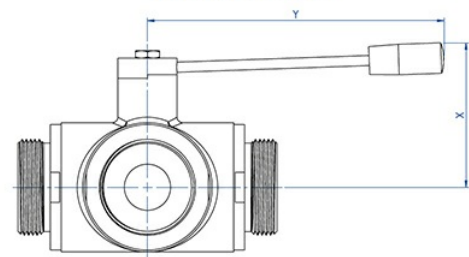
#### ON REQUEST:

- Connection: SMS - MACON - DIN male.
- 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

**ASSE LIBERO FREE SHAFT**

**CON LEVA WITH LEVER**


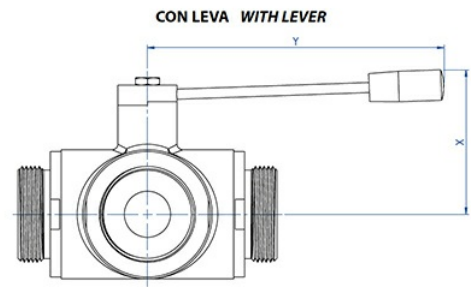
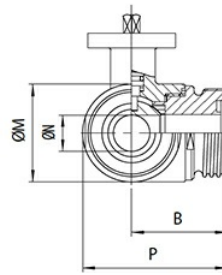
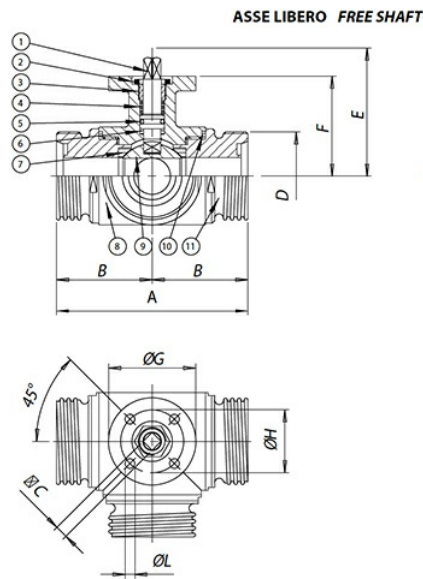
La versione con leva non ha la flangia montaggio attuatore a norma ISO 5211 e non è possibile montare alcun tipo di attuatore.

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### DIMENSIONS

SIZE		A	B	□C	D	E	F	øG	øH	øL	øM	øN	P	X	Y
DN [mm]	[inch]														
DN 10	3/8"	108	54	6	28	54,5	46,5	46	36	6	45	10	76,5	60	110
DN 15	1/2"	118	59	6	34	57	49	54	42	6	52	15	85	65	110
DN 20	3/4"	130	65	9	44	69,5	56,5	65	50	7	60	20	95	70	160
DN 25	1"	140	70	9	52	74	61	65	50	7	70	25	105	80	160
DN 32	1" 1/4	156	78	14	58	94,5	81,5	65	50	7	85	32	120,5	95	190
DN 40	1" 1/2	172	86	14	65	102	89	90	70	9	100	40	136	110	190
DN 50	2"	182	91	17	78	106,5	91,5	90	70	9	110	50	146	120	220
DN 65	2" 1/2	196	98	17	95	116,5	101,5	125	102	11	122	65	159	130	285
DN 80	3"	256	128	17	110	134	116	125	102	11	150	80	203	145	310
DN 100	4"	286	143	17	130	149	131	125	102	11	192	100	239	160	310

## materials



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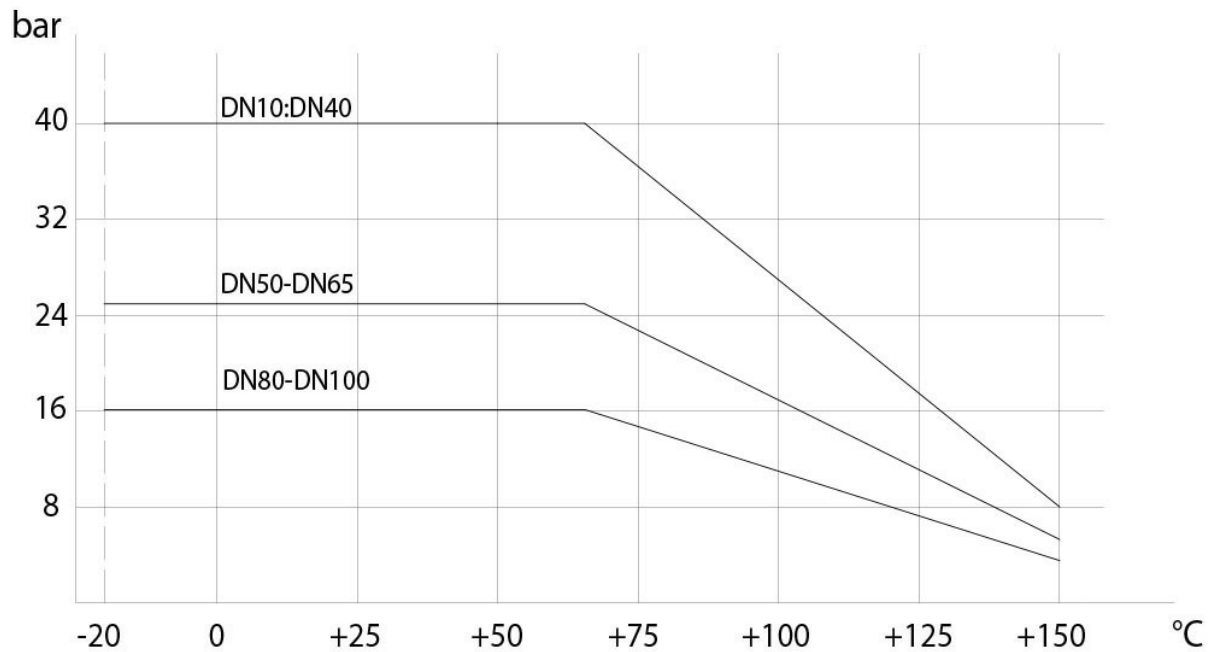
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MATERIALS				
1	Shaft	316L S.S.	1.4401	UNI X2CrNiMo 17 12
2	Nut	303 S.S.		
3	Gland nut ring	304L S.S. (303 S.S.)		
4*	Top tight ring	P.T.F.E.		
5*	Shaft o-ring	FKM		
6*	Washer	P.T.F.E.		
7*	Seals	P.T.F.E.		
8	Body	316L S.S.	1.4401	UNI X2CrNiMo 17 12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

\* Components of spare part kit KGBV48...

## 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

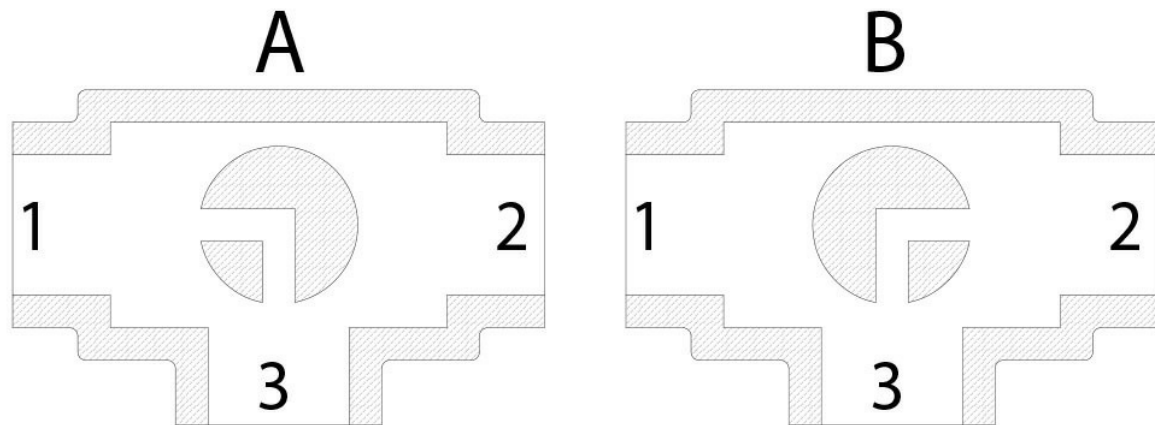
### Plan for "L" port

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

