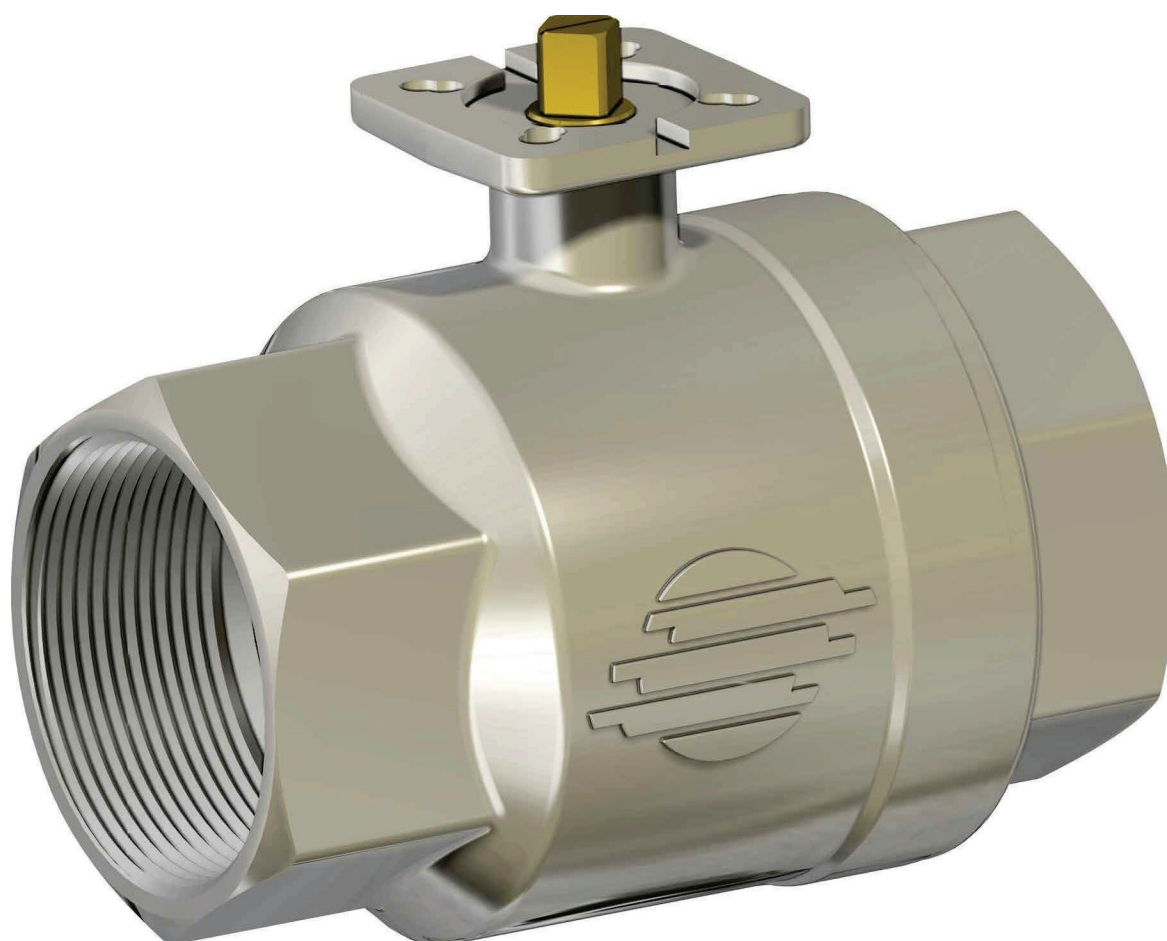




ITEM 101



2-WAY FULL-BORE THREADED-ENDS BRASS BALL VALVE.



GENERAL FEATURES:

- The valve is suitable for medium pressures on condition that non aggressive fluids are used.
- Working temperature: from -20°C to +150°C for fluids.
- Working pressure: see diagram.
- Fluid range: air, water, oil, gas, petroliferous and petrochemical products, vacuum.
- Threaded ends as per ISO 7/1 specifications.
- ISO 5211 flange connection.
- Available version with self-scraping ball profile seal, suitable to be used with dirty fluids or with solid particles inside.

ON REQUEST:

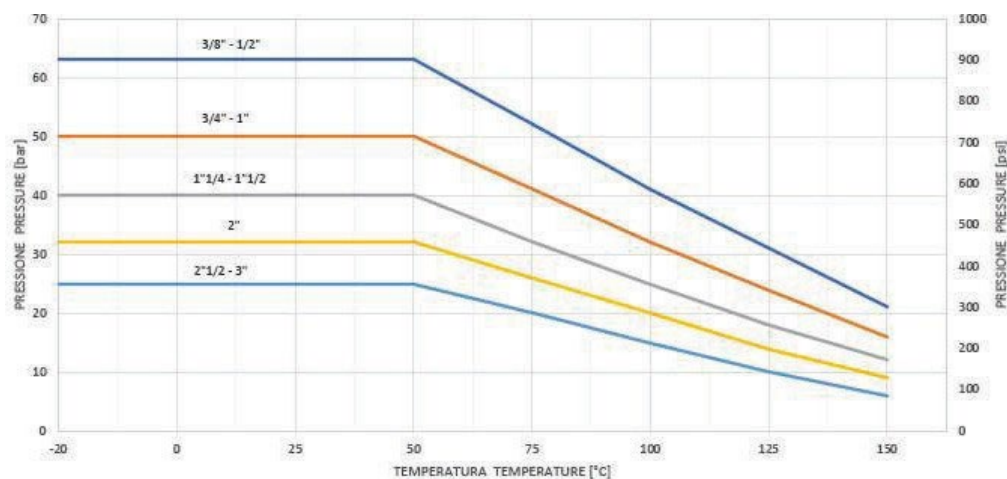
- NPT threaded ends.
- For other applications, please contact our sales department.

CERTIFICATIONS:

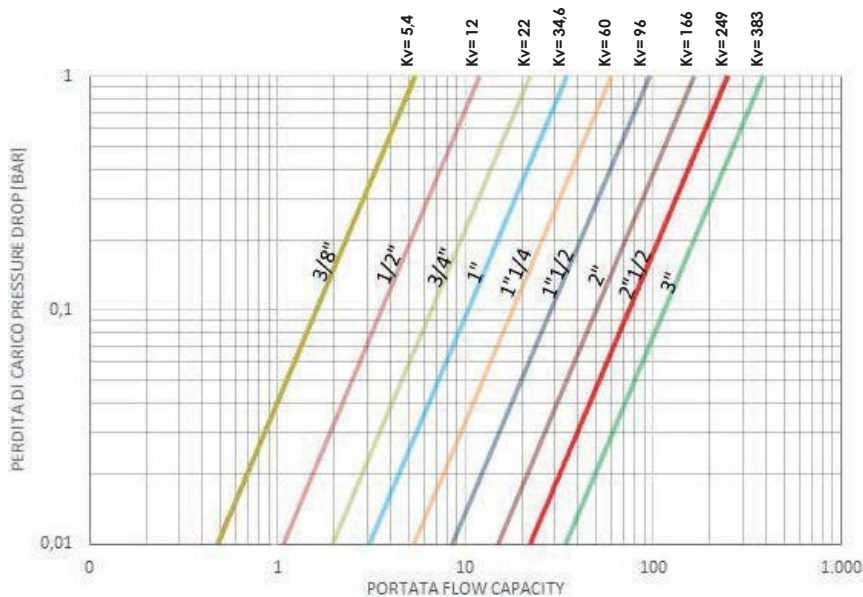
- According to 2014/68/EU "PED".
- ATEX version in conformity with directive 2014/34/EU on request.



PRESSURE/TEMPERATURE DIAGRAM



FLOW/PRESSURE LOSS DIAGRAM AND Kv NOMINAL COEFFICIENT



Kv is the coefficient, expressed in m³/h (with water at 15°C) causing a pressure loss of 1 bar.

Cv factor is the flow of water at 60°F in US gallons / minutes (gpm) at a pressure drop of 1 lb/in².

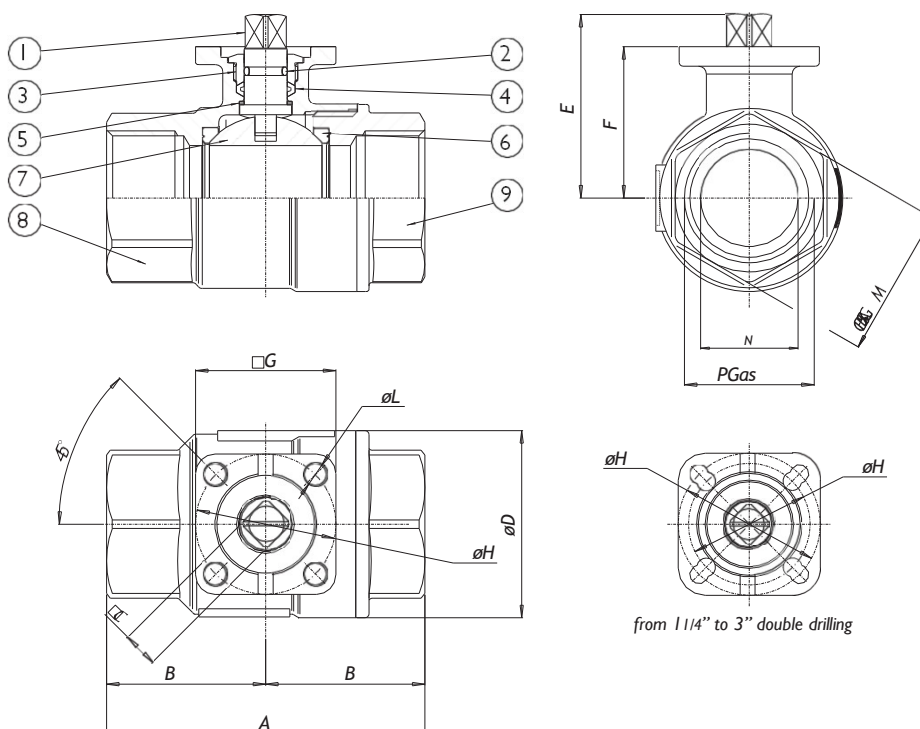
BREAKAWAY TORQUES Nm

MISURA 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"
PN 25 bar								48	79
PN 32 bar							27		
PN 40 bar					14	19			
PN 50 bar			7	10					
PN 64 bar	4	5							

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.

**ITEM 101 BRASS****FREE SHAFT AND WITH LEVER**

SIZE		ASSE LIBERO FREE SHAFT				WITH LEVER				
		Free shaft	ATEX	With self-scraping seal	Kg	With lever	ATEX	With self-scraping seal	Kg	Lever kit
DN 10	3/8"	VI01N203	VI01N203YX	-	0,33	LI01N203	LI01N203YX	-	0,4	KLV10103
DN 15	1/2"	VI01N204	VI01N204YX	-	0,29	LI01N204	LI01N204YX	-	0,35	KLV10103
DN 20	3/4"	VI01N205G	VI01N205GYX	-	0,43	LI01N205G	LI01N205GYX	-	0,5	KLV10105
DN 25	1"	VI01N206G	VI01N206GYX	-	0,66	LI01N206G	LI01N206GYX	-	0,72	KLV10105
DN 32	1" 1/4	VI01N207G	VI01N207GYX	VI01Z207G	1,07	LI01N207G	LI01N207GYX	LI01Z207G	1,14	KLV10109
DN 40	1" 1/2	VI01N208G	VI01N208GYX	VI01Z208G	1,52	LI01N208G	LI01N208GYX	LI01Z208G	1,59	KLV10109
DN 50	2"	VI01N209	VI01N209YX	VI01Z209	2,62	LI01N209	LI01N209YX	LI01Z209	2,69	KLV10109
DN 65	2" 1/2	VI01N210	VI01N210YX	VI01Z210	3,98	LI01N210	LI01N210YX	LI01Z210	4,28	KLV10110
DN 80	3"	VI01N211	VI01N211YX	VI01Z211	6,68	LI01N211	LI01N211YX	LI01Z211	6,98	KLV10110

**MATERIALS**

1	Shaft	Brass	EN 12164 CW614N
2	O-ring	FKM	
3	Gland nut	Brass	EN 12164 CW614N
4	Shaft seal	P.T.F.E.	
5	Antifriction rings	P.T.F.E.	
6	Seals	P.T.F.E.	
7	Ball	Brass chromium plated	EN 12164 CW614N
8	Body	Brass	EN 12165 CW617N
9	Threaded ends*	Brass	EN 12165 CW617N

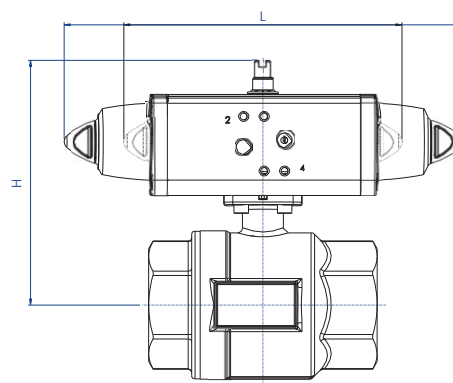
* Surface treatment: bright nickel plating

DIMENSIONS

SIZE		A	B	C	øD	E	F	G	øH	øL	ch.M	N
DN [mm]	[inch]											
DN 10	3/8"	69	34,5	9	31,8	38,5	30,5	36	36	5,5	25	10
DN 15	1/2"	69	34,5	9	31,8	38,5	30,5	36	36	5,5	25	15
DN 20	3/4"	77	38,5	11	40	47,1	36,3	36	36	5,5	31	20
DN 25	1"	89	44,5	11	48	50,9	40,2	36	36	5,5	38	25
DN 32	1" 1/4	103	51,5	11	60	62,5	51,5	42	36/42	5,5	47	32
DN 40	1" 1/2	114	57	11	70,6	69	58	42	36/42	5,5	54	40
DN 50	2"	134	67	11	88,5	76,3	65,3	46	42/50	5,5/6,5	66	50
DN 65	2" 1/2	161	80,5	14	112	97	83	65	50/70	6,5/8,5	84	65
DN 80	3"	185	92,5	14	138,4	108,5	94,5	65	50/70	6,5/8,5	98	80



ITEM 101 BRASS WITH A ACTUATOR



WITH DOUBLE ACTING PNEUMATIC ACTUATOR

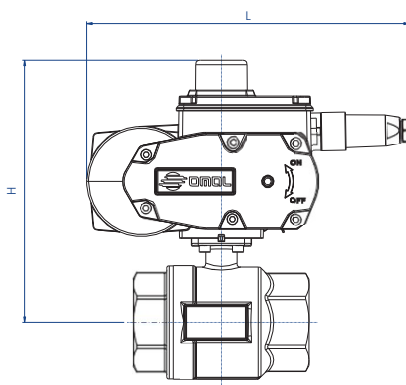
SIZE		ITEM CODE	ACTUATOR	Mounting KIT	L	H	Kg
DN [mm]	[inch]				[mm]	[mm]	
DN 10	3/8"	D101H003	DA008401S	KCF032558	70,0	88,0	0,6
DN 15	1/2"	D101H004	DA008401S	KCF032558	70,0	88,0	0,6
DN 20	3/4"	DG101H005	DAN0015411S	KCF032558	159,0	103,3	1,1
DN 25	1"	DG101H006	DAN0015411S	KCF032558	159,0	107,3	1,3
DN 32	1" 1/4	DG101H*07	DAN0030411S	KCF032558	174,2	129,8	2,0
DN 40	1" 1/2	DG101H*08	DAN0030411S	KCF032558	174,2	136,8	2,5
DN 50	2"	DG101H*09	DAN0045412S	KCF042559	188,5	149,4	4,6
DN 65	2" 1/2	DG101H*10	DAN0106411S	KCF072567	237,0	186,3	7,2
DN 80	3"	DG101H*11	DAN0120411S	KCF072567	244,1	201,6	10,1

*0 = standard version *Z = version with self-scraping seat

Sizing of pneumatic actuators by minimum pressure rate 5,6 barg.
ATEX VERSION: Add 'YX' at the end of the item code.

WITH SPRING RETURN PNEUMATIC ACTUATOR

SIZE		ITEM CODE	ACTUATOR	Mounting KIT	L	H	Kg
DN [mm]	[inch]				[mm]	[mm]	
DN 10	3/8"	SG101H003	SRN0015401S	KCF042565	233,2	108,8	1,5
DN 15	1/2"	SG101H004	SRN0015401S	KCF042565	233,2	108,8	1,5
DN 20	3/4"	SG101H005	SRN0015401S	KCF032558	233,2	115,8	1,6
DN 25	1"	SG101H006	SRN0015401S	KCF032558	233,2	119,8	1,9
DN 32	1" 1/4	SG101H*07	SRN0030401S	KCF055309	258,8	141,0	3,0
DN 40	1" 1/2	SG101H*08	SRN0030401S	KCF055309	258,8	148,0	3,4
DN 50	2"	SG101H*09	SRN0053401S	KCF075310	304,2	168,3	6,0
DN 65	2" 1/2	SG101H*10	SRN0090401S	KCF102730	393,7	220,5	10,5
DN 80	3"	SG101H*11	SRN0120401S	KCF102730	409,6	235,5	14,5



WITH ON-OFF ELECTRIC ACTUATOR 230Vac

MISURA	SIZE	ARTICOLO	ATTUATORE	KIT montaggio	L	H	Kg
DN [mm]	[inch]	ITEM CODE	ACTUATOR	Mounting KIT	[mm]	[mm]	
DN 10	3/8"	C101A5E03	EA0035A5C000	KCF052003	250,0	170,0	3,8
DN 15	1/2"	C101A5E04	EA0035A5C000	KCF052003	250,0	170,0	3,8
DN 20	3/4"	CG101A5E05	EA0035A5C000	KCF055309	250,0	173,3	4,0
DN 25	1"	CG101A5E06	EA0035A5C000	KCF055309	250,0	177,2	4,3
DN 32	1" 1/4	CG101A5E07	EA0035A5C000	KCF055309	250,0	188,5	4,7
DN 40	1" 1/2	CG101A5E08	EA0035A5C000	KCF055309	250,0	195,0	5,1
DN 50	2"	C101A5G09	EA0070A5C000	KCF052004	250,0	202,3	6,2
DN 65	2" 1/2	C101A5I10	EA0130A5C000	KCF072567	279,6	240,6	11,5
DN 80	3"	C101A5I11	EA0130A5C000	KCF072567	279,6	252,1	14,1

ROTARY MODULAR TYPE ELECTRIC ACTUATOR 230Vac

MISURA	SIZE	ARTICOLO	ATTUATORE	KIT montaggio	L	H	Kg
DN [mm]	[inch]	ITEM CODE	ACTUATOR	Mounting KIT	[mm]	[mm]	
DN 10	3/8"	M10116C03	AM160002	KCF052003	165,8	149,0	3,0
DN 15	1/2"	M10116C04	AM160002	KCF052003	165,8	149,0	3,0
DN 20	3/4"	MG10116C05	AM160002	KCF055309	165,8	155,8	3,2
DN 25	1"	MG10116C06	AM160002	KCF055309	165,8	159,6	3,4
DN 32	1" 1/4	MG10116F07	AM160005	KCNACDV542I	250,0	272,5	5,5
DN 40	1" 1/2	MG10116F08	AM160005	KCNACDV542I	250,0	279,0	5,9
DN 50	2"	M10116F09	AM160005	KCE281943	250,0	266,3	7,0
DN 65	2" 1/2	M10116L10	AM160020	KCE362068	279,6	304,6	12,3
DN 80	3"	M10116L11	AM160020	KCE362068	279,6	316,1	14,9

Items with electric actuator 230Vac.

Versione ATEX non disponibile per attuatori elettrici. ATEX version not available for electric actuator.