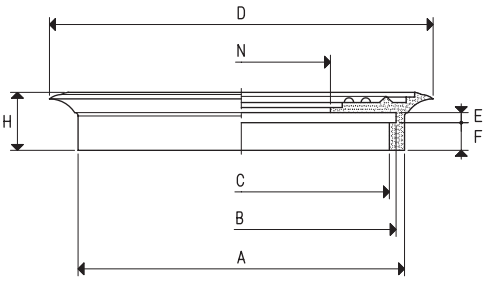
CIRCULAR CUPS WITH SELF-LOCKING SUPPORT

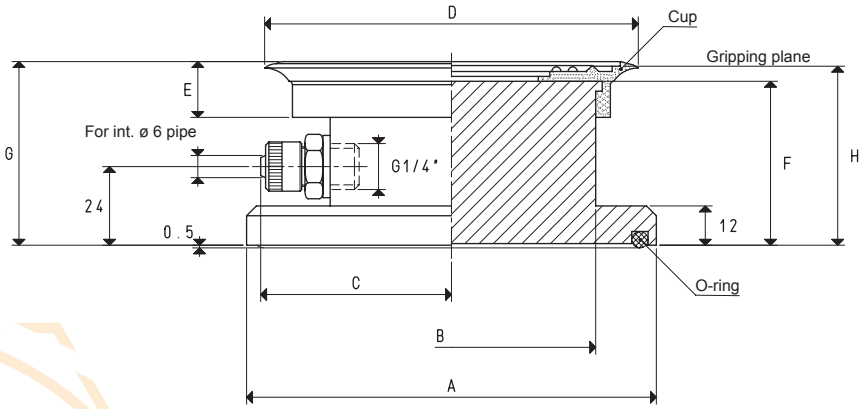
These cups represent a true mobile clamping system.
They are composed of:
- A sturdy anodised aluminium support with a wide surface at the base limited by a seal whose purpose is to fix it to the bearing surface.
- A standard circular flat cup which is cold-assembled onto the upper part of the support for gripping the load.
- Two quick couplings for vacuum connection.
The detection of vacuum, for gripping and releasing the support, can be made via three-way vacuum valves or solenoid valves.
All cups with self-locking support of this and other ranges with the gripping plane at the same height can be used simultaneously, even if they are of different types or have different sizes.



SPARE CUPS

Art.	Force	A	B	C	D	E	F	H	N	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	g
01 85 15 *	14.18	68	63	59	85	3	7	17	27	29.7
01 110 10 *	23.74	96	91	87	114	3	8	17	54	44.3
01 150 10 *	45.00	133	125	118	154	4	11	23	64	112.0

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

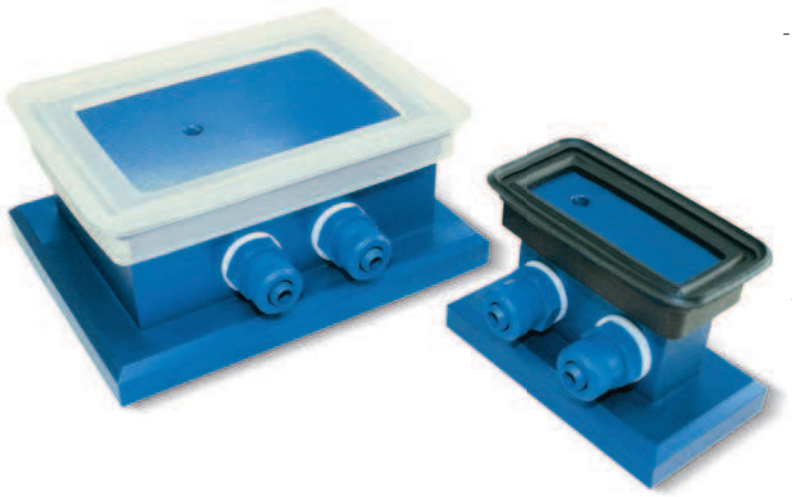


CUPS WITH SELF-LOCKING SUPPORT

Art.	Force	A	B	C	D	E	F	G	H	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø					Art.	Art.	Kg
16 85 15 *	14.5	98	60	41	85	17	49.0	56.0	54.5	01 85 15	00 16 06	0.542
16 110 10 *	24.0	125	88	58	114	17	50.0	56.0	54.5	01 110 10	00 16 07	1.056
16 150 10 *	45.0	165	120	76	154	23	49.5	57.5	54.5	01 150 10	00 16 08	1.858

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$



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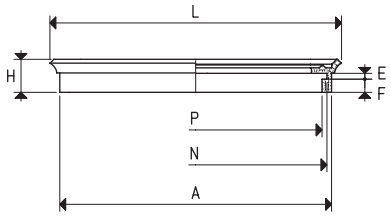
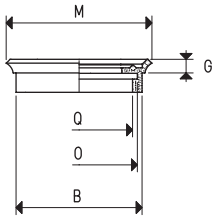
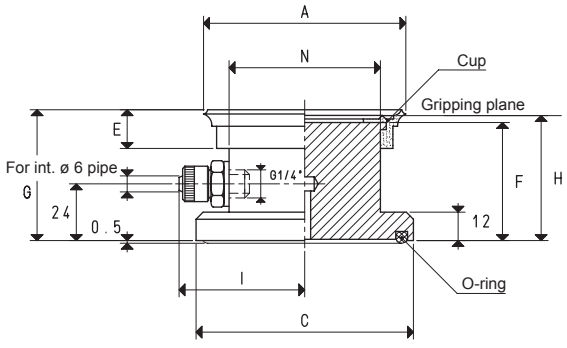


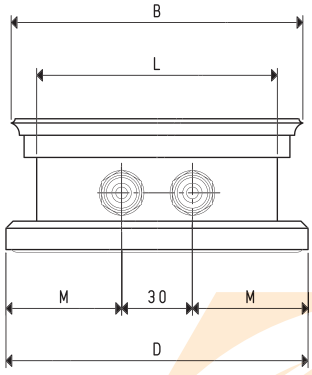


SPARE CUPS

Art.	Force Kg	A	B	E	F	G	H	L	M	N	O	P	Q	Weight g
01 40 75 *	6.7	64	29	3	7.5	6.5	16.0	75	40	59	24	54	19	15.6
01 120 90 *	24.0	107	78	3	7.5	7.5	17.5	117	87	102	73	97	68	38.8
01 150 75 *	25.0	137	62	3	7.5	7.5	16.5	147	72	132	57	127	52	41.2

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon





CUPS WITH SELF-LOCKING SUPPORT

Art.	Force Kg	A	B	C	D	E	F	G	H	I	L	M	N	Cup Art.	O-ring Art.	Weight Kg
16 40 75 *	6.7	41	76	48	83	16.0	51	56.5	54.5	30.5	55	26.5	20	01 40 75	00 16 09	0.260
16 120 90 *	24.0	90	120	98	128	17.5	50	57.0	54.5	56.0	102	49.0	70	01 120 90	00 16 10	1.166
16 150 75 *	25.0	75	150	83	144	16.5	50	57.0	54.5	48.0	130	57.0	55	01 150 75	00 16 10	1.177

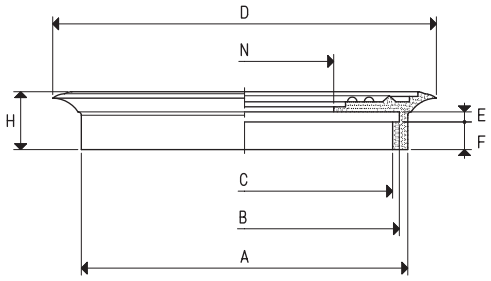
* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

CIRCULAR CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT

These cups represent a true mobile clamping system.
They are composed of:
- *A sturdy anodised aluminium support with a wide surface at the base limited by a seal, whose purpose is to fix it to the bearing surface.*
- *A standard circular flat cup which is cold-assembled onto the upper part of the support for gripping the load.*
- *A ball valve that opens up creating vacuum, only when activated by the load to be gripped.*
- *Two quick couplings for vacuum connection.*

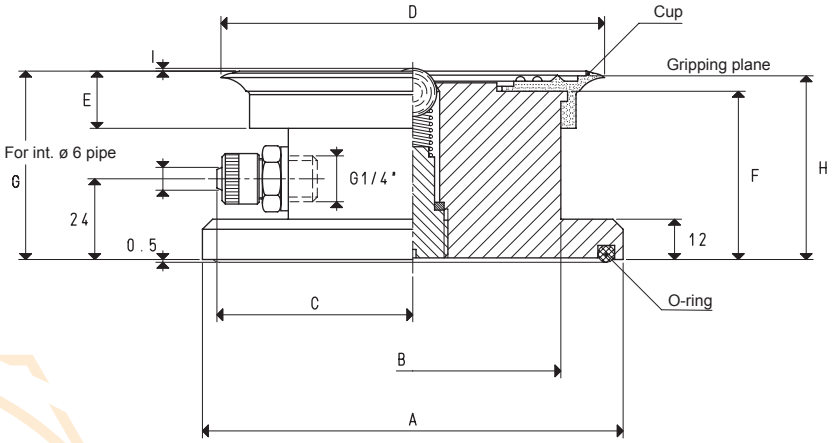
The detection of vacuum, for gripping and releasing the support, can be made via three-way vacuum valves or solenoid valves.
All cups with self-locking support of this and other ranges with the gripping plane at the same height can be used simultaneously, even if they are of different types or have different sizes.



SPARE CUPS

Art.	Force	A	B	C	D	E	F	H	N	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	g
01 85 15 *	14.18	68	63	59	85	3	7	17	27	29.7
01 110 10 *	23.74	96	91	87	114	3	8	17	54	44.3
01 150 10 *	45.00	133	125	118	154	4	11	23	64	112.0

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon



CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT

Art.	Force	A	B	C	D	E	F	G	H	I	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø						Art.	Art.	Kg
18 85 15 *	14.5	98	60	41	85	17	49.0	56.0	54.5	1	01 85 15	00 16 06	0.580
18 110 10 *	24.0	125	88	58	114	17	50.0	56.0	54.5	1	01 110 10	00 16 07	1.106
18 150 10 *	45.0	165	120	76	154	23	49.5	57.5	54.5	1	01 150 10	00 16 08	1.926

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

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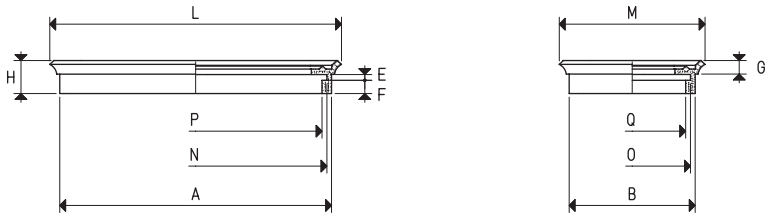

SPARE CUPS

Art.	Force Kg	A	B	E	F	G	H	L	M	N	O	P	Q	Weight g
01 40 75 *	6.7	64	29	3	7.5	6.5	16.0	75	40	59	24	54	19	15.6
01 120 90 *	24.0	107	78	3	7.5	7.5	17.5	117	87	102	73	97	68	38.8
01 150 75 *	25.0	137	62	3	7.5	7.5	16.5	147	72	132	57	127	52	41.2

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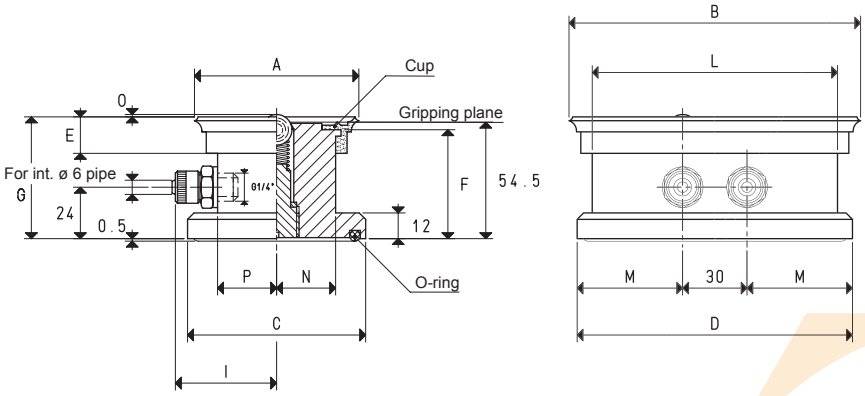

CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT

Art.	Force Kg	A	B	C	D	E	F	G	I	L	M	N	O	P	Cup Art.	O-ring Art.	Weight Kg
18 40 75 *	6.7	41	76	48	83	16.0	51	56.5	41.5	55	26.5	15.0	2	21.0	01 40 75	00 16 09	0.352
18 120 90 *	24.0	90	120	98	128	17.5	50	57.0	56.0	102	49.0	35.0	1	35.0	01 120 90	00 16 10	1.224
18 150 75 *	25.0	75	150	83	144	16.5	50	57.0	48.0	130	57.0	27.5	1	27.5	01 150 75	00 16 10	1.194

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

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CIRCULAR CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT

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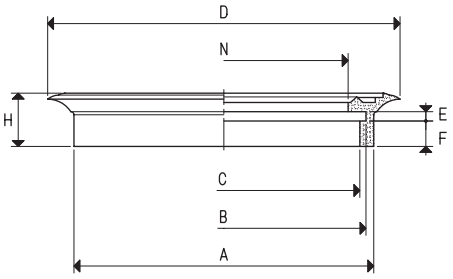
***Note:** Available with support for mechanical fixing with code 28, instead of 18.*



SPARE CUPS

Art.	Force	A	B	C	D	E	F	H	N	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	g
01 85 15 M *	14.18	68	63	59	85	3	7	17	53	26.2
01 110 10 M *	23.74	96	91	87	114	3	8	17	80	40.1
01 150 10 M *	45.00	133	125	118	154	4	11	23	117	98.3
01 250 20 *	122.60	235	227	220	254	4	11	23	220	188.6

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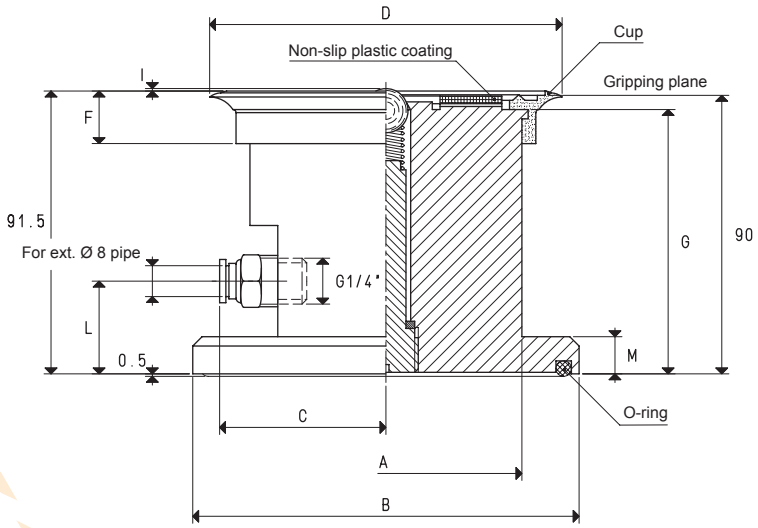

CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT

Art.	Force	A	B	C	D	F	G	I	L	M	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø						Art.	Art.	Kg
18 85 15/90 MT *	14.18	60	98	42	85	17	85.0	1	30	12	01 85 15 M	00 16 06	0.880
18 110 10/90 MT *	23.74	88	125	51	114	17	85.5	1	30	12	01 110 10 M	00 16 07	1.704
18 150 10/90 MT *	45.00	120	165	68	154	23	85.0	1	30	12	01 150 10 M	00 16 08	3.158
18 250 20/90 MT *	122.60	223	270	121	254	23	85.0	1	33	15	01 250 20	00 18 09	10.322

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon; BA= stain-resistant Biond

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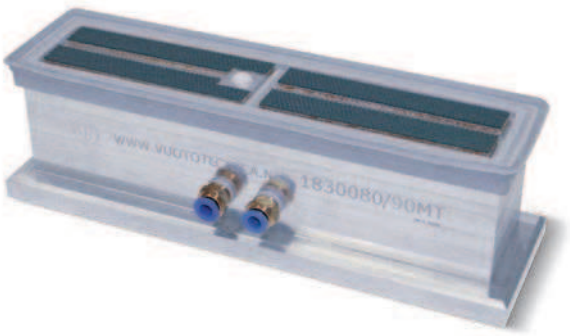
RECTANGULAR CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT



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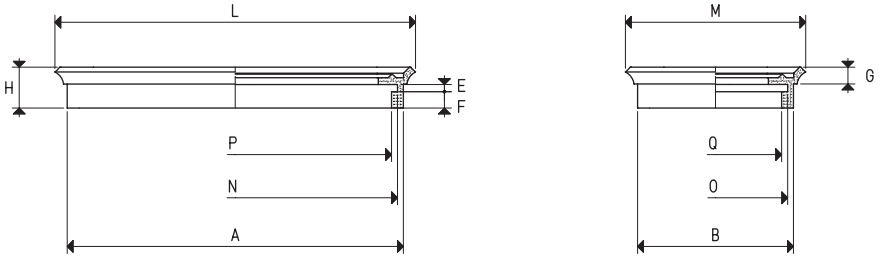
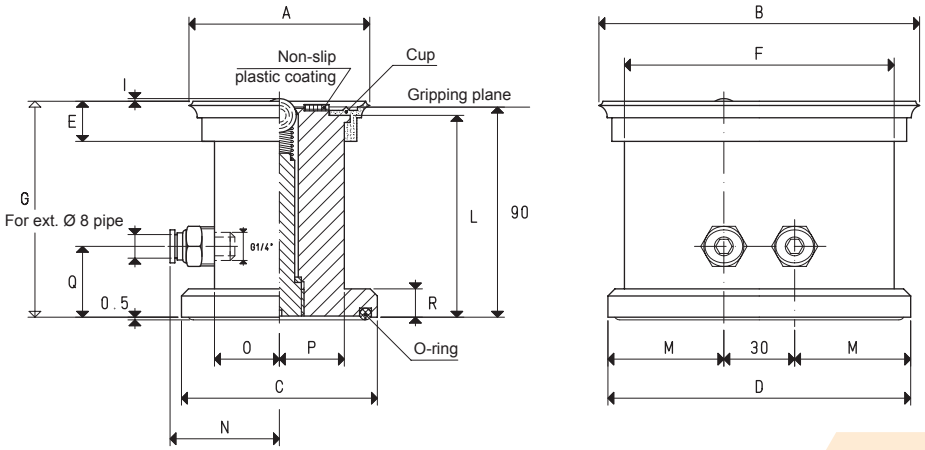


SPARE CUPS

Art.	Force Kg	A	B	E	F	G	H	L	M	N	O	P	Q	Weight g
01 40 75 *	6.7	64	29	3	7.5	6.5	16.0	75	40	59	24	54	19	15.6
01 120 90 *	24.0	107	78	3	7.5	7.5	17.5	117	87	102	73	97	68	38.8
01 150 75 *	25.0	137	62	3	7.5	7.5	16.5	147	72	132	57	127	52	41.2
01 300 80 *	60.0	288	68	3	7.5	7.5	17.5	297	77	284	64	278	58	80.0
01 300 150 *	113.0	288	138	3	7.5	7.5	17.5	297	147	284	134	278	128	90.0

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon; BA= stain-resistant Biond



CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT

Art.	Force Kg	A	B	C	D	E	F	G	I	L	M	N	O	P	Q	R	Cup Art.	O-ring Art.	Weight Kg
18 40 75/90 MT *	6.7	41	76	48	83	16.0	55	92.0	2	86.5	26.5	37.0	21.0	15.0	30	17	01 40 75	00 16 09	0.570
18 120 90/90 MT *	24.0	90	120	98	128	17.5	102	92.5	1	85.5	49.0	51.0	35.0	35.0	30	12	01 120 90	00 16 10	1.898
18 150 75/90 MT *	25.0	75	150	83	144	16.5	130	92.5	1	85.5	57.0	43.5	27.5	27.5	30	12	01 150 75	00 16 10	1.924
18 300 80/90 MT *	60.0	80	300	90	310	17.5	284	92.5	1	85.5	140.0	47.0	31.0	31.0	33	15	01 300 80	00 18 10	4.632
18 300 150/90 MT *	113.0	150	300	160	310	17.5	284	92.5	1	85.5	140.0	83.0	67.0	67.0	33	15	01 300 150	00 18 11	9.534

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon; BA= stain-resistant Biond

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

CIRCULAR CUPS WITH BALL VALVE AND HIGH SELF-LOCKING SUPPORT

These cups represent a true mobile clamping system. Their distinctive feature, with respect to the previous ones, is their exceptional height.
They are composed of:
- A sturdy anodised aluminium support with a wide surface at the base limited by a seal, whose purpose is to fix it to the bearing surface.
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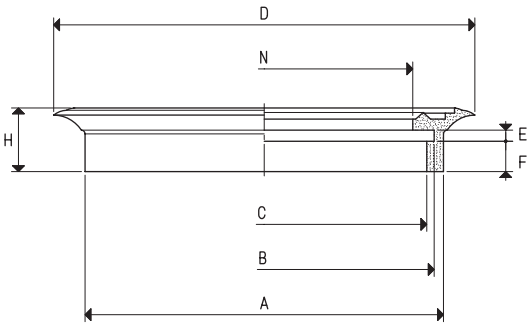

SPARE CUPS

Art.	Force	A	B	C	D	E	F	H	N	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	g
01 110 10 M *	23.74	96	91	87	114	3	8	17	80	40.1
01 150 10 M *	45.00	133	125	118	154	4	11	23	117	98.3
01 250 20 *	122.60	235	227	220	254	4	11	23	220	188.6

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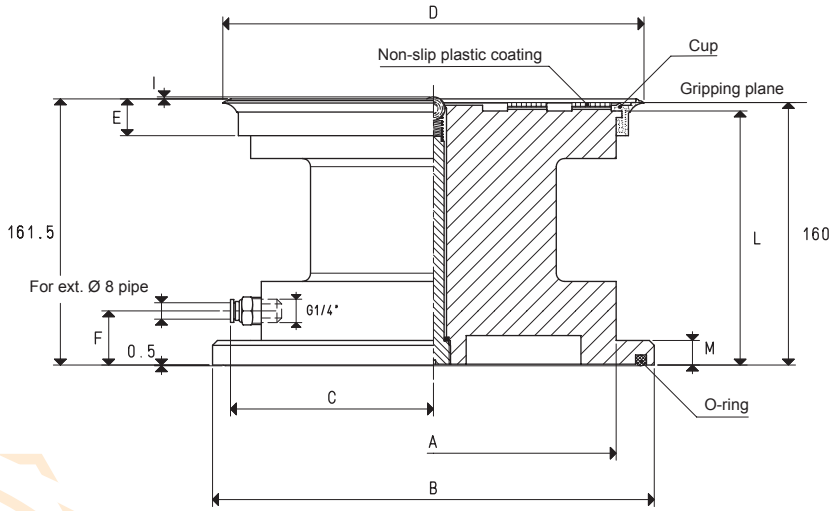

CUPS WITH BALL VALVE AND HIGH SELF-LOCKING SUPPORT

Art.	Force	A	B	C	D	E	F	I	L	M	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø						art.	art.	Kg
18 110 10/160 MT *	24.0	88	125	51	114	17	30	1	155.5	12	01 110 10 M	00 16 07	2.986
18 150 10/160 MT *	45.0	120	165	68	154	23	30	1	155.5	12	01 150 10 M	00 16 08	5.042
18 250 20/160 MT *	122.6	223	270	121	254	23	33	1	155.5	15	01 250 20	00 18 09	12.634

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon; BA= stain-resistant Biond

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RECTANGULAR CUPS WITH BALL VALVE AND HIGH SELF-LOCKING SUPPORT

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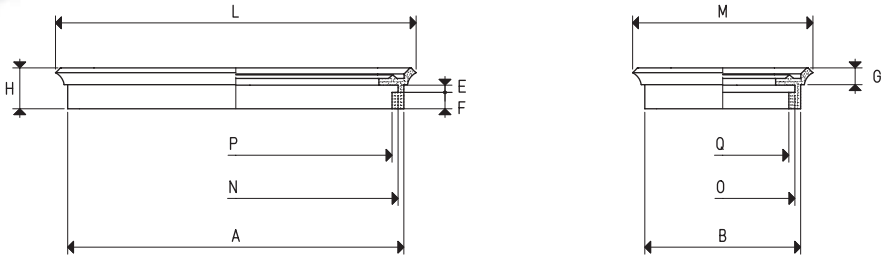
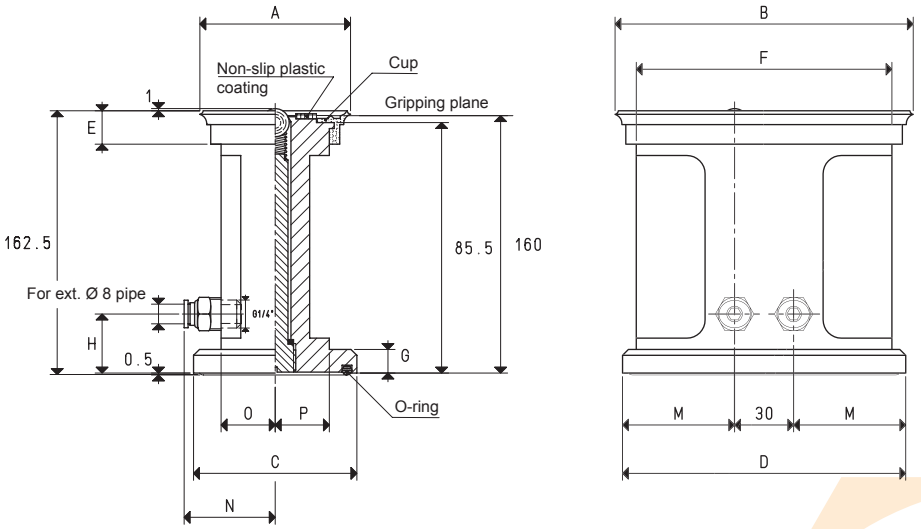


SPARE CUPS

Art.	Force Kg	A	B	E	F	G	H	L	M	N	O	P	Q	Weight g
01 120 90 *	24.0	107	78	3	7.5	7.5	17.5	117	87	102	73	97	68	38.8
01 150 75 *	25.0	137	62	3	7.5	7.5	16.5	147	72	132	57	127	52	41.2
01 300 80 *	60.0	288	68	3	7.5	7.5	17.5	297	77	284	64	278	58	80.0
01 300 150 *	113.0	288	138	3	7.5	7.5	17.5	297	147	284	134	278	128	90.0

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon; BA= stain-resistant Biond



CUPS WITH BALL VALVE AND HIGH SELF-LOCKING SUPPORT

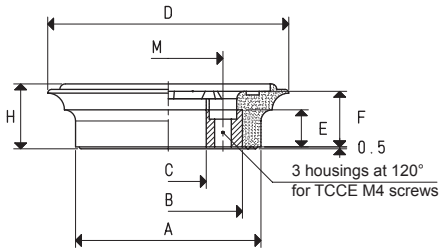
Art.	Force Kg	A	B	C	D	E	F	G	H	M	N	O	P	Cup Art.	O-ring Art.	Weight Kg
18 120 90/160 MT *	24.0	90	120	98	128	17.5	102	12	30	49.0	51.0	35.0	35.0	01 120 90	00 16 10	3.450
18 150 75/160 MT *	25.0	75	150	83	144	16.5	130	12	30	57.0	43.5	27.5	27.5	01 150 75	00 16 10	3.262
18 300 80/160 MT *	60.0	80	300	90	310	17.5	284	15	33	140	47.0	31.0	31.0	01 300 80	00 18 10	7.906
18 300 150/160 MT *	113.0	150	300	160	310	17.5	284	15	33	140	83.0	67.0	67.0	01 300 150	00 18 11	13.110

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon; BA= stain-resistant Biond

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

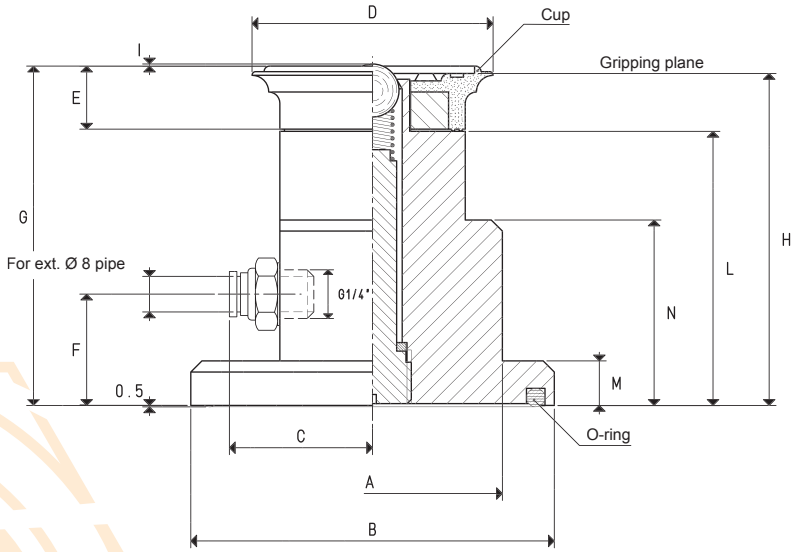
CIRCULAR CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT, FOR GLASS

Glass machinery manufacturers require increasingly accurate and safe clamping machines. This has led us to the creation of this series of cups.
The specially designed shape of this cup guarantees a firm grip. The other main feature is the utmost precision in the height, whose nominal size has a tolerance of only five hundredths of millimetre.
They are composed of:
- A sturdy anodised aluminium support with a wide surface at the base limited by a seal, whose purpose is to fix it to the bearing surface.
- A standard circular flat cup which is cold-assembled onto the upper part of the support for gripping the load.
- A ball valve that opens up creating vacuum, only when activated by the load to be gripped.
- Two quick couplings for vacuum connection.
The gripping plane of these cups is covered with a special non-slip plastic coating, which is particularly suited for clamping glass and smooth marble.
The detection of vacuum, for gripping and releasing the support, can be made via three-way vacuum valves or solenoid valves.



SPARE CUP

Art.	Force Kg	A Ø	B Ø	C Ø	D Ø	E	F	H	M Ø	Support material	Weight g
08 65 11 A	6.7	50	40	20.5	65	10	15	17.5	29.5	steel	90



CUP WITH BALL VALVE AND SELF-LOCKING SUPPORT

Art.	Force Kg	A Ø	B Ø	C	D Ø	E	F	G	H	I	L	M	N	Cup Art.	O-ring Art.	Weight Kg
18 65 11/90 A	6.7	70	98	45	65	17.5	30	92.5	90	1	75	12	50	08 65 11 A	00 16 06	1.090

3D drawings available at **www.vuototecnica.net**

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

RECTANGULAR CUPS WITH BALL VALVE AND SELF-LOCKING SUPPORT, FOR GLASS

Glass machinery manufacturers require increasingly accurate and safe clamping machines. This has led us to the creation of this series of cups.
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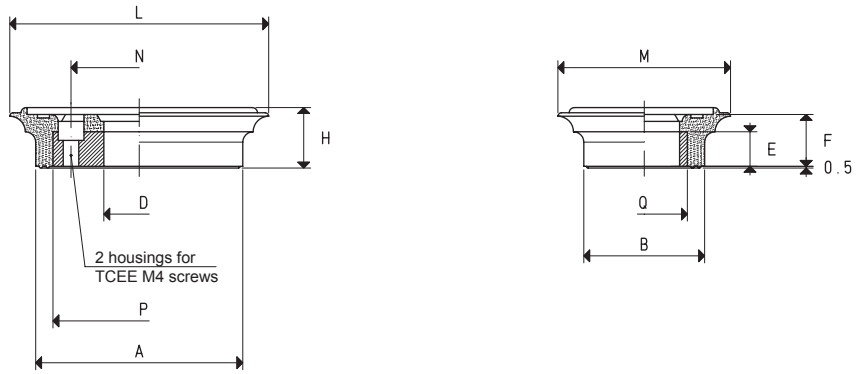
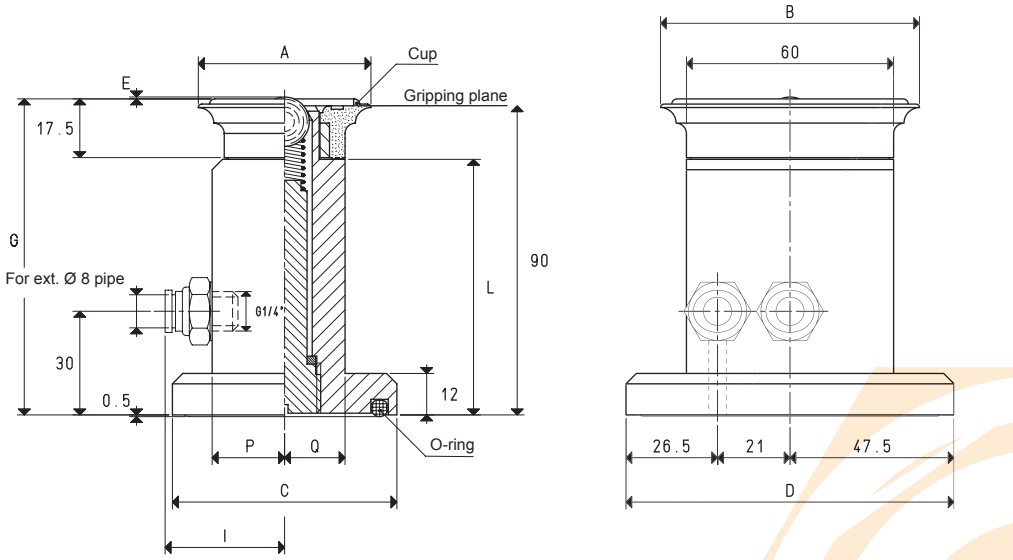
- Two quick couplings for vacuum connection.
The detection of vacuum, for gripping and releasing the support, can be made via three-way vacuum valves or solenoid valves.



SPARE CUP

Art.	Force Kg	A	B	D Ø	E	F	H	L	M	N	P	Q	Support material	Weight g
08 50 75 A	7.5	60	35	20.5	10	15	17.5	75	50	39.5	50	25	steel	92



CUP WITH BALL VALVE AND SELF-LOCKING SUPPORT

Art.	Force Kg	A	B	C	D	E	G	I	L	P	Q	Cup Art.	O-ring Art.	Weight Kg
18 50 75/90 A	7.5	50	75	65	95	1	92.5	41	75	21	17.5	08 50 75 A	00 16 06	0.762

3D drawings available at **www.vuototecnica.net**

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

CIRCULAR CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON, FOR GLASS

Glass machinery manufacturers require increasingly accurate and safe clamping machines. This has led us to the creation of this series of cups.
The specially designed shape of this cup guarantees a firm grip. The other main feature is the utmost precision in the height, whose nominal size has a tolerance of only five hundredths of millimetre.
They are composed of:
- A sturdy anodised aluminium support with a wide surface at the base limited by a seal, whose purpose is to fix it to the bearing surface.
- A standard circular flat cup which is cold-assembled onto the upper part of the support for gripping the load.
- A ball valve that opens up creating vacuum, only when activated by the load to be gripped.
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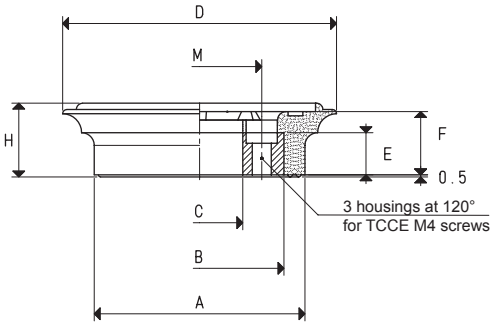
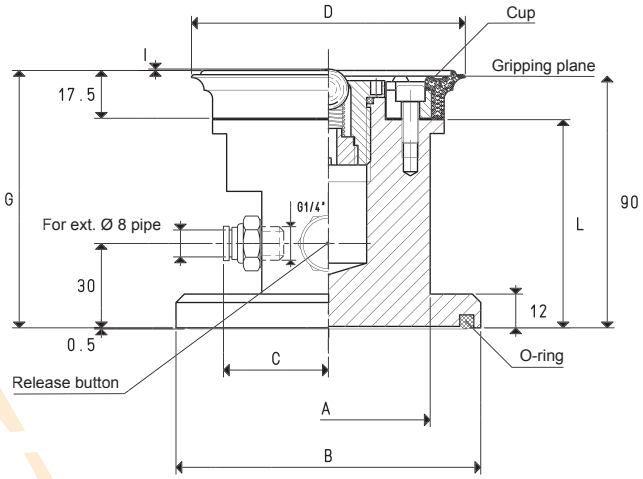
The detection of vacuum, for gripping and releasing the support, can be made via three-way vacuum valves or solenoid valves.



SPARE CUP

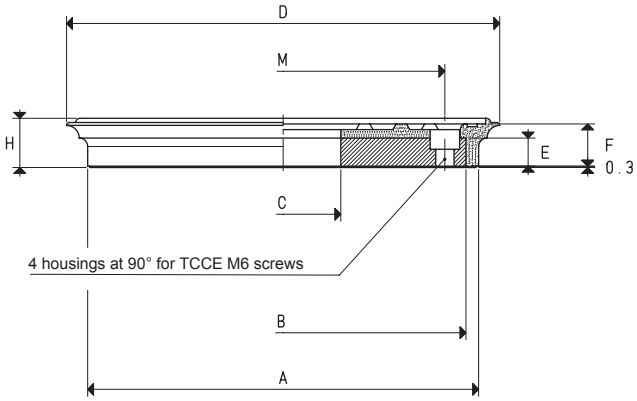
Art.	Force	A	B	C	D	E	F	H	M	Support	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	material	g
08 85 11 A	12	70	60	40.5	85	10	15	17.5	49.5	steel	92



CUP WITH BALL VALVE AND SELF-LOCKING SUPPORT AND RELEASE BUTTON

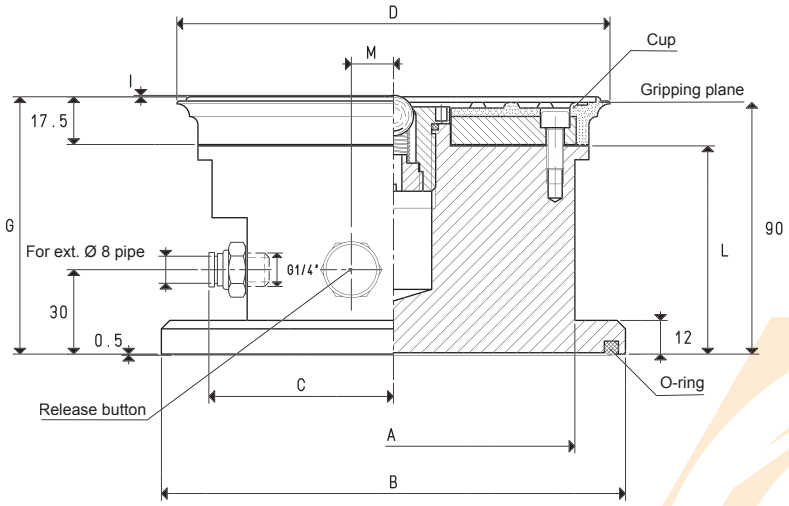
Art.	Force	A	B	C	D	G	I	L	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø				art.	art.	Kg
21 85 11/90 A	12.0	70	98	42	85	92.5	1	75	08 85 11 A	00 16 06	1.090

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$



SPARE CUP

Art.	Force	A	B	C	D	E	F	H	M	Support	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	material	Kg
08 150 11 A	42.7	139	130	41.0	150	10	15	17.5	115.0	steel	1.0



CUP WITH BALL VALVE AND SELF-LOCKING SUPPORT AND RELEASE BUTTON

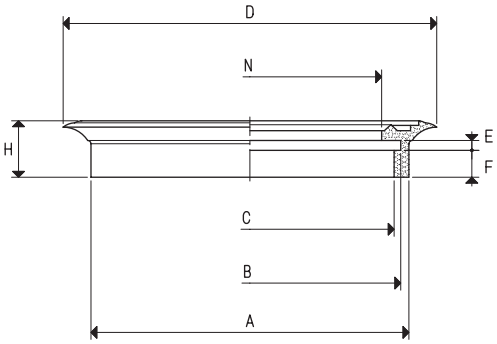
Art.	Force	A	B	C	D	G	I	L	M	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø					Art.	Art.	Kg
21 150 11/90 A	42.7	129	165	73	150	92.5	1	75	15	08 150 11 A	00 16 08	3.938

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

CIRCULAR CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

These cups represent a true mobile clamping system.
They are composed of:
- *A sturdy anodised aluminium support with a wide surface at the base limited by a seal, whose purpose is to fix it to the bearing surface.*
- *A standard circular flat cup which is cold-assembled onto the upper part of the support for gripping the load.*
- *A ball valve that opens up creating vacuum, only when activated by the load to be gripped.*
- *A release button that allows placing the support even with the vacuum inserted.*
- *Two quick couplings for vacuum connection.*

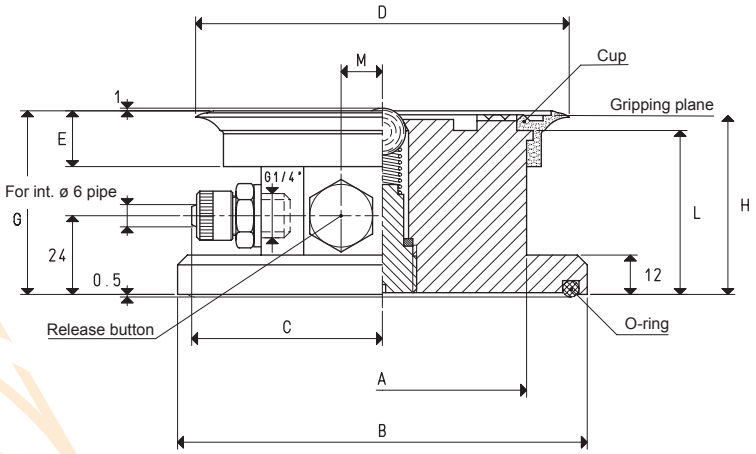
The detection of vacuum, for gripping and releasing the support, can be made via three-way vacuum valves or solenoid valves.
All cups with self-locking support of this and other ranges with the gripping plane at the same height can be used simultaneously, even if they are of different types or have different sizes.



SPARE CUPS

Art.	Force	A	B	C	D	E	F	H	N	Weight
	Kg	Ø	Ø	Ø	Ø				Ø	g
01 110 10 M *	23.74	96	91	87	114	3	8	17	80	40.1
01 150 10 M *	45.00	133	125	118	154	4	11	23	117	98.3

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon



CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

Art.	Force	A	B	C	D	E	G	H	L	M	Cup	O-ring	Weight
	Kg	Ø	Ø		Ø						Art.	Art.	Kg
21 110 10 *	24	88	125	58	114	17	56.0	54.5	50.0	10	01 110 10 M	00 16 07	1.148
21 150 10 *	45	120	165	76	154	23	57.5	54.5	49.5	28	01 150 10 M	00 16 08	2.042

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

Conversion ratio: inch = $\frac{mm}{25.4}$; pounds = $\frac{g}{453.6} = \frac{Kg}{0.4536}$

RECTANGULAR CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

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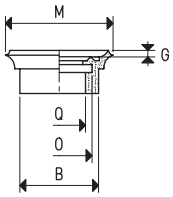
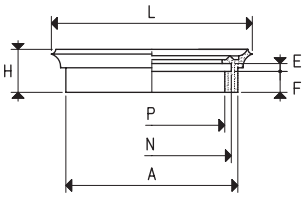


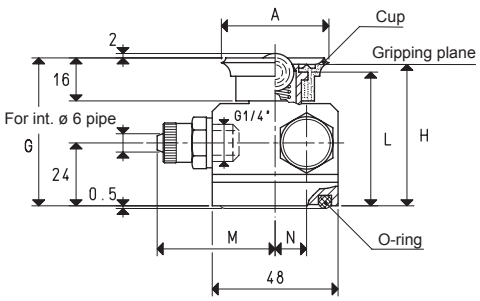


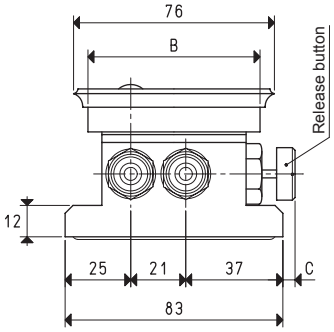
SPARE CUPS

Art.	Force Kg	A	B	E	F	G	H	L	M	N	O	P	Q	Weight g
01 40 75 *	6.7	64	29	3	7.5	6.5	16.0	75	40	59	24	54	19	15.6

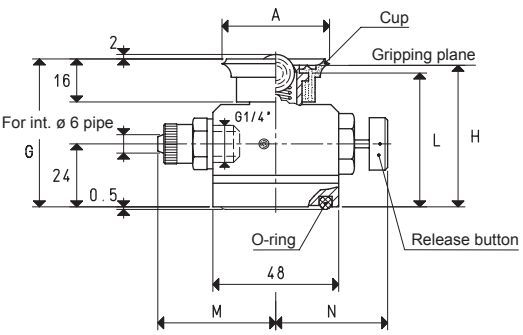
* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon

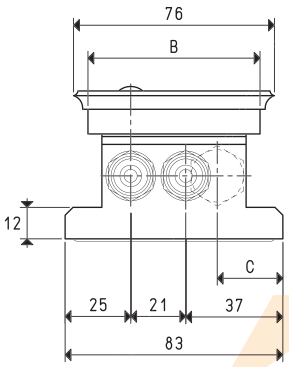
Art. 21 40 75 PL





Art. 21 40 75 PP





CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

Art.	Force Kg	A	B	C	G	H	L	M	N	Cup Art.	O-ring Art.	Weight Kg
21 40 75 PL	6.7	41	55	7	56.5	54.5	51	45.5	12	01 40 75	00 16 09	0.460
21 40 75/84 PL *	6.7	41	55	7	86.5	84.0	81	45.5	12	01 40 75	00 16 09	0.702
21 40 75 PP *	6.7	41	55	25	56.5	54.5	51	45.5	45	01 40 75	00 16 09	0.460
21 40 75/ 84 PP *	6.7	41	55	25	86.5	84.0	81	45.5	45	01 40 75	00 16 09	0.702

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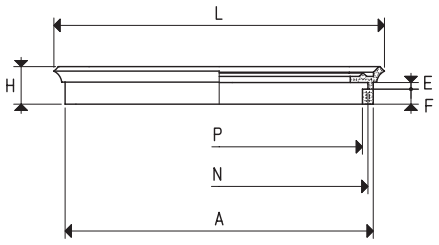
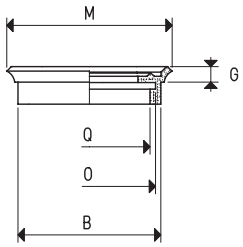
RECTANGULAR CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

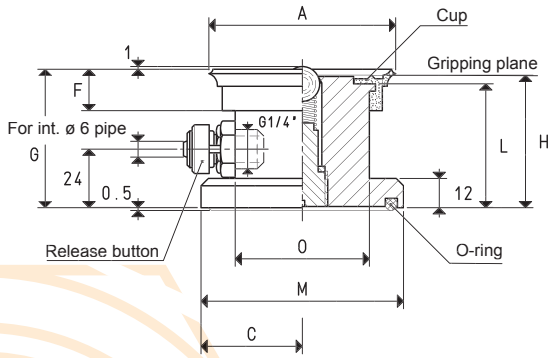


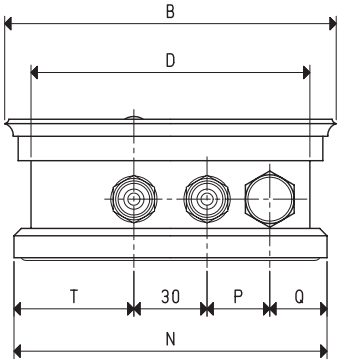


SPARE CUPS

Art.	Force Kg	A	B	E	F	G	H	L	M	N	O	P	Q	Weight g
01 120 90 *	24.0	107	78	3	7.5	7.5	17.5	117	87	102	73	97	68	38.8
01 150 75 *	25.0	137	62	3	7.5	7.5	16.5	147	72	132	57	127	52	41.2

* Complete the code by indicating the compound: A= oil-resistant rubber; N= natural para rubber; S= silicon





CUPS WITH BALL VALVE, SELF-LOCKING SUPPORT AND RELEASE BUTTON

Art.	Force Kg	A	B	C	D	F	G	H	L	M	N	O	P	Q	T	Cup Art.	O-ring Art.	Weight Kg
21 120 90 *	24	90	120	56	102	17.5	57.0	54.5	50	98	128	70	24	25	49	01 120 90	00 16 10	1.320
21 150 75 *	25	75	120	48	130	16.5	57.0	54.5	50	83	144	55	25	32	57	01 150 75	00 16 10	1.236
21 150 75/84 *	25	75	150	48	130	16.5	86.5	84.0	80	83	144	55	25	32	57	01 150 75	00 16 10	1.924

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