

Pinzas de expansión para interiores serie MFD/MFU

- Nuevo concepto de pinza innovadora.
- Movimiento hacia abajo (MFD) o hacia arriba (MFU).
- La parte elástica puede ser de silicona o de EPDM.
- Diámetro de fijación de 8 a 85 mm.
- Conos de centrado opcionales.
- Sensores magnéticos opcionales.
- Varios accesorios disponibles para el montaje.

ID expansion grippers series MFD/MFU

- New concept for innovative air hands.
- Downward movement (MFD), or upward movement (MFU).
- The elastic part can be in Silicone or EPDM.
- Grip diameters from 8 to 85 mm.
- Optional nose cones for centering.
- Optional proximity magnetic sensors.
- Several mounting accessories.



MFD



MFU



M F D 1 6 E 0 2 C L

Dirección del movimiento

Actuation direction

D - Hacia abajo
D - Downward
U - Hacia arriba
U - Upward

Alimentación

Air feeding

C - Con racor coaxial
C - With coaxial air fitting
H - Con racor lateral y orificio pasante
H - With side air fitting and through hole

Diámetro nominal

Base diameter

08 - 10 - 12 - 14 - 16 - 18 - 20 - 22
27 - 33 - 41 - 47 - 51 - 63

Parte elástica

Elastic part

S01 - De silicona blanca
S01 in white Silicone
E02 - de EPDM negro
E02 in black EPDM

Orificio pasante

El modelo ...HL está dotado de un orificio pasante, que puede ser usado para soplar con aire comprimido o con vacío, con el propósito de enfriar las piezas o de comprobar la fuga.

Through hole

The ...HL models have a central through hole. It can be used to blow compressed air, or to provide vacuum, with the purpose to cool a part, or to check the sealing.



Silicona o EPDM?

La parte elástica puede ser de silicona blanca o de EPDM negro. La Silicona se puede usar en un campo de temperatura más amplio y garantiza una mayor duración, pero no es adecuada en algunas industrias, porque dificulta el proceso de pintado o de recubrimiento de las partes con las que ha estado en contacto. En cambio el EPDM no deja huellas y asegura además un mayor coeficiente de rozamiento.

La parte elástica en Silicona o en EPDM, están disponibles como repuesto y puede ser sustituida cuando se deterioren.

La expectativa media de vida para la parte elástica en EPDM es de casi 0.5 millones de ciclos.

La expectativa media de vida para la parte elástica en Silicona es de casi 1 millón de ciclos.

Silicone or EPDM?

The elastic part can be in white silicone or black EPDM.

Silicone can be used over a wider temperature range and assures a longer life time, but it is not suitable in some industries, because it makes it difficult to paint or to coat the parts that are touched.

EPDM is mark-free and provides a higher coefficient of friction. The elastic part in Silicone or EPDM is available as a spare part and can be replaced, when worn out.

The expected medium life time of the elastic part in EPDM is about 0.5 million cycles.

The expected medium life time of the elastic part in Silicone is about 1 million cycles.

Recambio de la parte elástica

Spare elastic part



Silicona
Silicone



EPDM

T	MFD / MFU													
	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø22	Ø27	Ø33	Ø41	Ø47	Ø51	Ø63
-70°C +200°C	IF08S01	IF10S01	IF12S01U	IF14S01U	IF16S01U	IF18S01	IF20S01	IF22S01	IF27S01	IF33S01	IF41S01	IF47S01	IF51S01	IF63S01
-50°C +140°C	IF08E02	IF10E02	IF12E02U	IF14E02U	IF16E02U	IF18E02	IF20E02	IF22E02	IF27E02	IF33E02	IF41E02	IF47E02	IF51E02	IF63E02

T - Temperatura de trabajo de la parte elástica (5÷60°C para el cuerpo de la pinza)

T - Operating temperature of the elastic part (5÷60°C for the gripper body)

Conos de centrado

Los conos de centrado en nylon con los tornillos en acero inoxidable, están disponibles como accesorio.

Para los tamaños superiores al 33, también están provistos de orificio pasante.

Centering cones

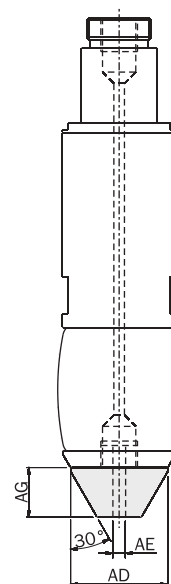
Centering cones in nylon with the stainless screw, are available as an option.

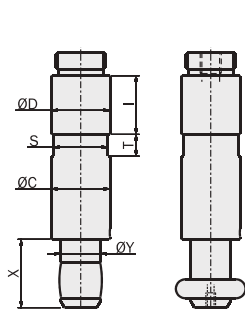
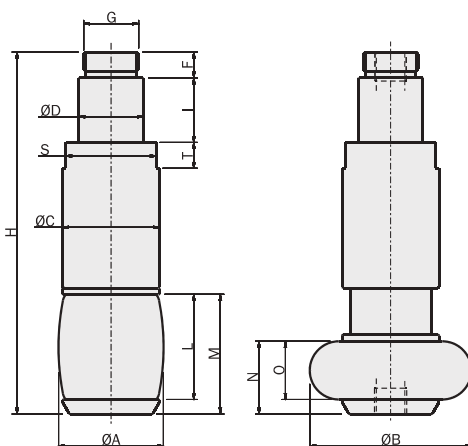
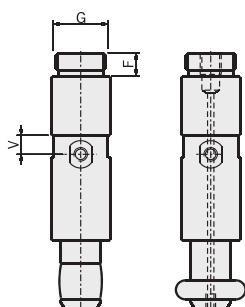
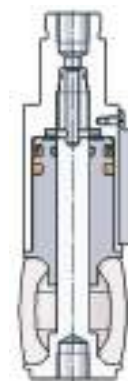
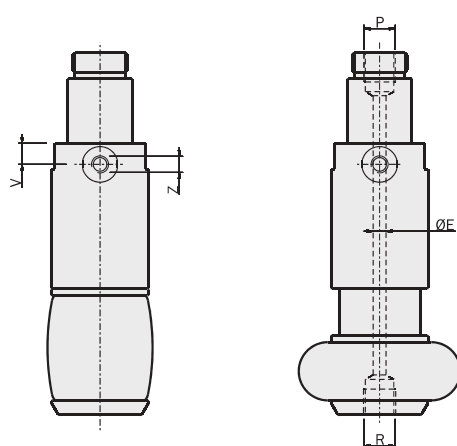
For the sizes larger than 33, they are also provided with a through hole.



	MFC10	MFC12	MFC14	MFC18	MFC22	MFC27	MFC33	MFC41	MFC51	MFC63
Peso Weight	0.5 g	1 g	1 g	1.5 g	2 g	5 g	7 g	12 g	21 g	30 g
ØAD [mm]	7.8	10	11.8	15.5	18.8	21.3	28	37	47	56
ØAE [mm]	-	-	-	-	-	-	4	4	4	4
ØAG [mm]	2.9	3.5	4.5	6.5	8	9.5	12	19	26	30
MFD MFU	Ø10	Ø12	Ø14 Ø16	Ø18 Ø20	Ø22	Ø27	Ø33	Ø41 Ø47	Ø51	Ø63

MFD / MFU

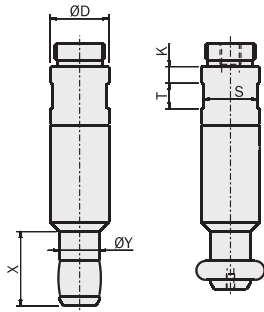


Dimensiones (mm)
Dimensions (mm)**MFD 08/10/12****MFD...E02CL**
MFD...S01CL**MFD 08/10/12****MFD...E02HL**
MFD...S01HL

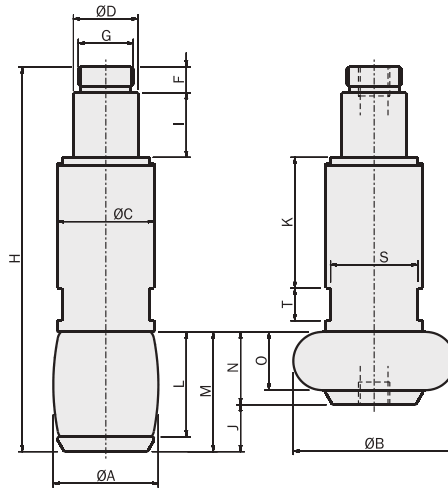
	m	ØA	ØB	ØC	ØD	ØE	F	G	H	I	L	M	N	O	P	R	S	T	V	Z	X	ØY
MFD08...CL MFD08...HL	15g	8	11	14	14	- 1.5	5.5	M12x1	59.2	14	7	9.2	5.7	3.5	M5	M2	13	6	- 4.5	- M3	14.7	7.6
MFD10...CL MFD10...HL	16g	10.5	13.5	14	14	- 1.5	5.5	M12x1	60.7	14	8.5	10.7	6.7	4.5	M5	M2	13	6	- 4.5	- M3	16.2	9.5
MFD12...CL MFD12...HL	17g	13	17	14	14	- 2	5.5	M12x1	62	14	10.5	13	7.5	5	M5	M3	13	6	- 4.5	- M3	16.8	11.8
MFD14...CL MFD14...HL	17g	15	19.5	14	14	- 2	5.5	M12x1	62.3	14	13	15.8	8.8	6	M5	M3	13	6	- 4.5	- M3	-	-
MFD16...CL MFD16...HL	17g	18	21.5	14	14	- 2	5.5	M12x1	62.3	14	13	15.8	8.8	6	M5	M3	13	6	- 4.5	- M3	-	-
MFD18...CL MFD18...HL	28g	19.5	24.5	18	14	- 2.5	5.5	M12x1	70.5	14	16.5	19.5	12	9	M5	M3	16	6	- 5.3	- M5	-	-
MFD20...CL MFD20...HL	28g	22.5	26.5	18	14	- 2.5	5.5	M12x1	70.5	14	16.5	19.5	12	9	M5	M3	16	6	- 5.3	- M5	-	-
MFD22...CL MFD22...HL	43g	24	31.5	21.5	14	- 2.5	5.5	M12x1	80	14	21	24.2	12.2	11	M5	M3	19	7	- 5.5	- M5	-	-
MFD27...CL MFD27...HL	79g	28	36	25	20	- 3	8	M17x1	98	20	26	30	18	14	G1/8	M5	22	8	- 7	- M5	-	-
MFD33...CL MFD33...HL	118g	34	44	30	20	- 4	8	M17x1	112	20	32.5	37	22.5	18	G1/8	G1/8	28	8	- 6.5	- M5	-	-
MFD41...CL MFD41...HL	280g	42	54	40	30	- 4.3	11	M27x1	142.5	30	39.5	45	29.5	24	G1/8	G1/8	36	11	- 7.5	- M5	-	-
MFD47...CL MFD47...HL	280g	50	58	40	30	- 4.3	11	M27x1	142.5	30	39.5	45	29.5	24	G1/8	G1/8	36	11	- 7.5	- M5	-	-
MFD51...CL MFD51...HL	490g	54	68	50	30	- 5.5	11	M27x1	168	30	48	55	37	30	G1/8	G1/8	45	13	- 10.5	- G1/8	-	-
MFD63...CL MFD63...HL	800g	66	84	60	30	- 6	11	M27x1	198	30	61	70	45	36	G1/8	G1/8	54	16	- 14	- G1/8	-	-

m [Peso]
[Weight]

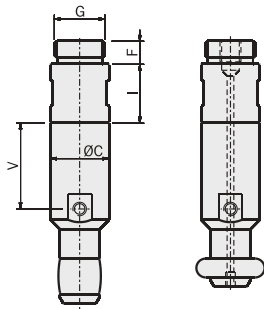
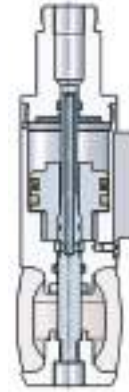
Dimensiones (mm)
Dimensions (mm)



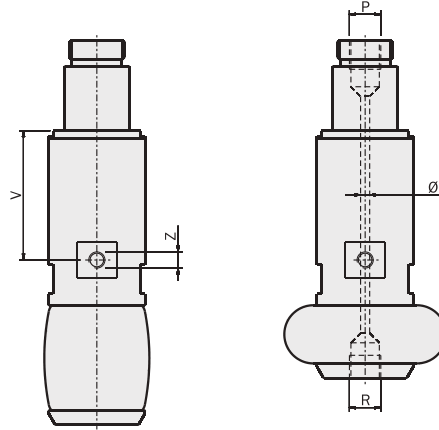
MFU 08/10/12



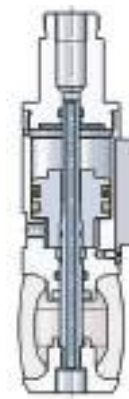
MFU...E02CL
MFU...S01CL



MFU 08/10/12



MFU...E02HL
MFU...S01HL



	m	ØA	ØB	ØC	ØD	ØE	F	G	H	I	J	K	L	M	N	O	P	R	S	T	V	Z	X	ØY
MFU08...CL MFU08...HL	16g	8	11	14	14	- 1.1	5.5	M12x1	61.5	14	3.5	4	7	9.2	5.7	3.5	M5	M2	13	6	- 20	- M3	16.3	7.6
MFU10...CL MFU10...HL	17g	10.5	13.5	14	14	- 1.1	5.5	M12x1	62.5	14	4	4	8.5	10.7	6.7	4.5	M5	M2	13	6	- 20.5	- M3	17.7	9.5
MFU12...CL MFU12...HL	18g	13	17	14	14	- 1.3	5.5	M12x1	65	14	5.5	4	10.5	13	7.5	5	M5	M3	13	6	- 21.5	- M3	20	11.8
MFU14...CL MFU14...HL	20g	15	19.5	14	14	- 1.3	5.5	M12x1	68.5	14	7	24.2	13	15.8	8.8	6	M5	M3	13	6	- 23.2	- M3	-	-
MFU16...CL MFU16...HL	20g	18	21.5	14	14	- 1.3	5.5	M12x1	68.5	14	7	24.2	13	15.8	8.8	6	M5	M3	13	6	- 23.2	- M3	-	-
MFU18...CL MFU18...HL	35g	19.5	24.5	18	14	- 1.3	5.5	M12x1	78	14	7.5	29	16.5	19.5	12	9	M5	M3	16	7	- 28	- M5	-	-
MFU20...CL MFU20...HL	35g	22.5	26.5	18	14	- 1.3	5.5	M12x1	78	14	7.5	29	16.5	19.5	12	9	M5	M3	16	7	- 28	- M5	-	-
MFU22...CL MFU22...HL	50g	24	31.5	21.5	14	- 1.8	5.5	M12x1	86.5	14	10	31.8	21	24.2	14.2	11	M5	M3	20	8	- 31.5	- M5	-	-
MFU27...CL MFU27...HL	100g	28	36	25	20	- 2.5	8	M17x1	108	20	12	37.5	26	30	18	14	G1/8	M5	22	9	- 37	- M5	-	-
MFU33...CL MFU33...HL	130g	34	44	30	20	- 2.8	8	M17x1	119	20	14.5	40.5	32.5	37	22.5	18	G1/8	G1/8	28	10	- 40	- M5	-	-
MFU41...CL MFU41...HL	300g	42	54	40	30	- 4.5	11	M27x1	147	30	15.5	45	39.5	45	29.5	24	G1/8	G1/8	36	12	- 45	- M5	-	-
MFU47...CL MFU47...HL	300g	50	58	40	30	- 4.5	11	M27x1	147	30	15.5	45	39.5	45	29.5	24	G1/8	G1/8	36	12	- 45	- M5	-	-
MFU51...CL MFU51...HL	500g	54	68	50	30	- 5	11	M27x1	169	30	18	54	48	55	37	30	G1/8	G1/8	45	14	- 56.5	- G1/8	-	-
MFU63...CL MFU63...HL	785g	66	84	60	30	- 5	11	M27x1	194	30	25	62	61	70	45	36	G1/8	G1/8	54	16	- 64.5	- G1/8	-	-

m [Peso]
[Weight]