



CATALOGUE 1/2021

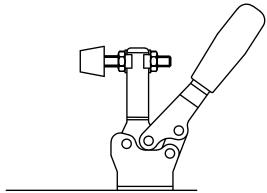




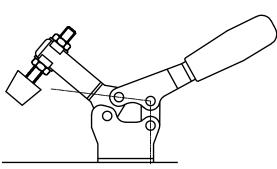




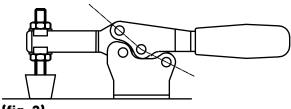
FEATURES

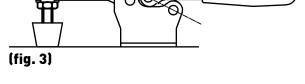


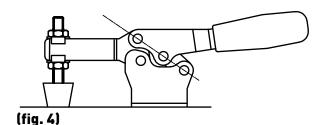




(fig. 2)







Using the toggle principle, the quick clamping tools have decisive advantages:

- •The clamping lever is opened so as to completely clear the work surface, so that the work piece can be extracted from and/or placed in the equipment without difficulty (fig.1).
- A small shift of the control lever is sufficient to bring the control lever to the work piece. The placement of three pivots (fig.2) clearly shows that the force exerted by the clamping lever is transmitted to the control lever.
- In the fig.3 position, when the three pivots are aligned the maximum Fs clamping force is obtained (dead centre of the lever). The intensity of the Fs force exerted on the clamp depends on the:
- 1) Force exerted on the control lever.
- 2) Position of the pressure screw on the clamping lever. Since it is not possible to determine the

strength of the operator in manual, the tables indicate the Fs clamping force for pneumatic clamps only. In the maximum strength position (fig.3), the clamping balance is unstable since opposing forces acting on the clamping lever can disengage the clamp.

 If in the clamping position, the dead centre of the lever exceeds a certain limit (fig.4), the clamping lever stops with a fixed stop and, thus obtains secure and irreversible clamping.

The strength that the clamp can receive in the closed position without permanent deformation is called Fh holding force. This is a feature variable for each clamp and depends on the size (sizes and geometry) of each clamp. The tables show the respective maximum Fh retaining force of the clamp including the safety factor. All forces are shown in daN.(decaNewton)=10 N (Newton)=1Kg. weight.

TABLE OF CONTENTS



VERTICAL A-E



VERTICAL B-F



VERTICAL AL-EL



VERTICAL BL-FL



VERTICAL ELS-FLS



VERTICALE AV-EV



VERTICAL AVF-EVF



VERTICAL AVF-EVF



VERTICAL F



LONG LIFE LLA-LLE



LONG LIFE LLB-LLF



LONG LIFE LSC-LSG



LONG LIFE LSH



LONG LIFE ACCESSORIES



HORIZONTAL M-0



HORIZONTAL N-P



HORIZONTAL ML-OL



HORIZONTAL NL-PL



HORIZONTAL OLS-PLS



HORIZONTAL MF



PUSH AND PULL STRAIGHT-LINE ACTION ASD-ASS



PUSH AND PULL STRAIGHT-LINE ACTION ASD-ASS



ONLY PUSH STRAIGHT-LINE ACTION AS



PUSH AND PULL STRAIGHT-LINE ACTION AS HEAVY-DUTY



PUSH AND PULL STRAIGHT-LINE ACTION AS



LATCH T-TF



LATCH T-TF



LATCH TL-TFL



LATCH ACCESSORIES



LATCH T2 LIGHT



LATCH T2-T2S HEAVY-DUTY



LATCH T6 LIGHT



LATCH T6/T6S HEAVY-DUTY



LATCH T3 LIGHT



LATCH T3/T3S HEAVY-DUTY



LATCH T4



LATCH ACCESSORIES



LATCH T5



LATCH T5 ACCESSORIES



LATCH T5 **HEAVY-DUTY**



LATCH E LIGHT



TIRANTE EL LIGHT



LATCH E-EL ACCESSORIES



VERTICAL ROTATIONAL



HORIZONTAL ROTATIONAL



LATCH **ROTATIONAL**



ROTATIONAL C



PNEUMATIC AP3-EP3



PNEUMATIC AP/EP



PNEUMATIC APV3-EPV3



PNEUMATIC APV/EPV



PNEUMATIC APV3S-EPV3S



PNEUMATIC APVS/EPVS



PNEUMATIC EPM **HEAVY-DUTY**



PNEUMATICA EPVM HEAVY-DUTY



PNEUMATIC LPV REINFORCED **HEAVY-DUTY**



PNEUMATIC SP3



PNEUMATIC SP4



PNEUMATIC PROXIMITY SWITCHES



RIGID SPINDLE



NEOPRENE SPINDLE



ARTICULATED SPINDLE



SPRING SPINDLE



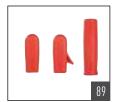
NEOPRENE CAP



THREADED NEOPRENE CAP



PROXIMITY SWITCHES



ERGONOMIC HANDLE



FLANGED WASHERS



BOLT RETAINER BAND



EXTENSION



CROSS BAR



ARTICULATED CROSS BAR

AISI 304/316 STAINLESS STEEL INDEX

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= |SO 9001 =



VERTICAL AX-EX



VERTICAL BX-FX



VERTICAL ALX-ELX



VERTICAL BLX-FLX



HORIZONTAL MX-OX



HORIZONTAL NX-PX



HORIZONTAL MLX-OLX



HORIZONTAL NLX-PLX



HORIZONTAL MFX



PUSH AND PULL STRAIGHT-LINE ACTION ASX



LATCH TX-TFX



LATCH TLX-TFLX



LATCH ACCESSORIES



LATCH T2X LIGHT



LATCH T2X HEAVY-DUTY



LATCH T2SX HEAVY-DUTY



LATCH T16 LIGHT



LATCH T6X HEAVY-DUTY



LATCH T6SX HEAVY-DUTY



LATCH T3X



LATCH ACCESSORIES



LATCH T5X



LATCH T5X ACCESSORIES



LATCH EX LIGHT



LATCH ELX LIGHT



RIGID SPINDLE



NEOPRENE SPINDLE



ARTICULATED SPINDLE



FLANGED WASHERS



BOLT RETAINER BAND

POSSIBLE APPLICATIONS









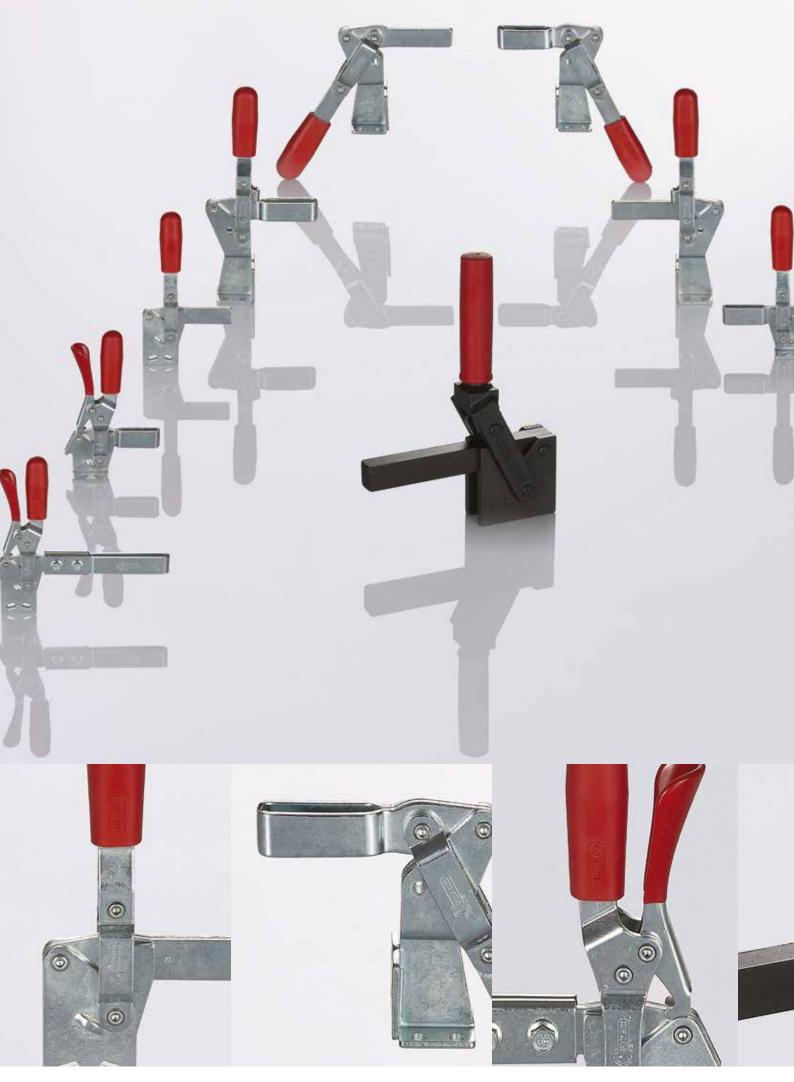


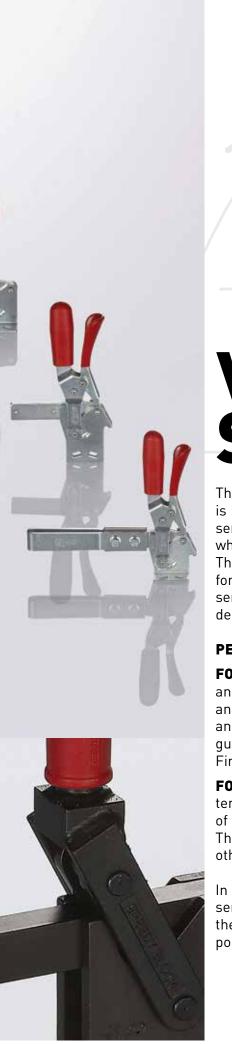














The clamping and control levers move in the same direction. When clamping is obtained, the control lever is in the vertical position. The light version of the series presented in this catalogue has a retaining force between 75 and 875 daN, while the heavy-duty version has a retaining force between 1000 and 3000 daN. The heavy-duty version is used when highly intense resistant forces are used, for example when closing jigs for foams, polyurethanes, etc. The clamps of this series are built to be easily disassembled for reworking of the individual elements depending on the requirements of use.

PERFORMANCE

FOR THE LIGHT SERIES: Components in case-hardening sheet steel. Hardened and tempered supporting pivots. Supporting bushes (for sizes from 130 daN and over) hardened by cementation and ground. The clamping lever is shorn and reinforced in the points of maximum stress. In the closing movement, it is guided laterally to ensure greater stability against possible transverse stresses. Finishing of the series: galvanized.

FOR THE HEAVY-DUTY SERIES: The pivots and supporting bushes are made of tempered and ground steel. The other parts are made of weldable steel. Finishing of the series: phosphated.

The red handles are made of polyurethane and are resistant to oils, solvents and other chemical agents.

In order to prevent accidental openings, caused by vibrations, some tools of this series are provided with a device called, "safety device", suitable for maintaining the clamp in a closed position. This device is also able to lock the tool in open position (Pat.Pend.)



VERTICAL SERIES WITH FOLDED BASE

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or **AISI 304 stainless** steel

Riveted pivots:

Galvanized steel or AISI 304 stainless

steel

Supporting bushes:

Hardened and ground steel (for sizes ≥130)

Handles:

Red polyurethane;

resistant to oils, grease and other chemical agents.

Performance:

Form A and **form AX** with open clamping lever and two flanged washers.

Form E and **form EX** with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

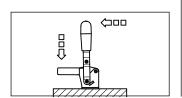
To be ordered separately (see Accessories on page 87).

Characteristics and applications:

During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses.

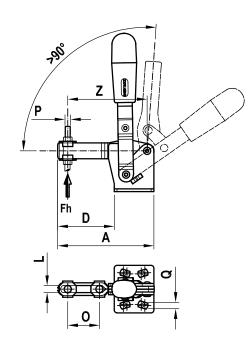
These tools are designed to prevent the operator's fingers from being crushed by the levers when opening.

A special grease is placed between two contacting surfaces during assembly. This pneumatic actuated series is found on page 75.



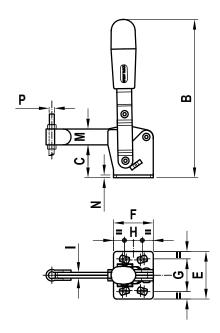






FORM **E**





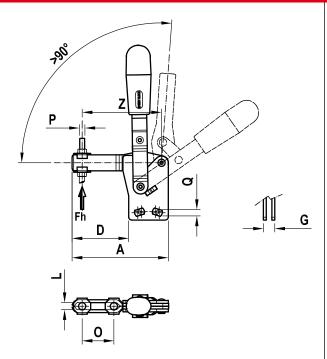
Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AA520	75/A	AS095	75/AX	66,5	98	20,5	37,5	34	29	24	15÷16		5,2	11	2	20	M5	4,5	56	75	98
AA524	75/E	AS105	75/EX	67	98	20,5	38	34	29	24	15÷16	4		11	2		M5	4,5		75	100
AA530	130/A	AS150	130/AX	85	142	28	50	42	35	27÷29	12,5÷19		6,2	16	2,5	28	M6	5,6	71	105	230
AA534	130/E	AS160	130/EX	86	142	28	51	42	35	27÷29	12,5÷19	5		16	2,5		M6	5,6		105	235
AA540	230/A	AS180	230/AX	110,5	168	33,5	67,5	45	43	32	18÷21		8,5	18	3	40	M8	6,7	94	200	380
AA544	230/E	AS190	230/EX	112	168	33,5	69	45	43	32	18÷21	6		18	3		M8	6,7		200	390
AA550	330/A			129	195	43	79	65	50	45÷46	29÷32		10,5	22	3,5	43	M10	8,5	108	240	604
AA554	330/E			130,5	195	43	80,5	65	50	45÷46	29÷32	7		22	3,5		M10	8,5		240	604
AA560	430/A			164	247	55,5	106	65	58	45	32		12,5	26	4	64	M12	8,5	138	280	1100
AA564	430/E			166	247	55,5	108	65	58	45	32	10		26	4		M12	8,5		280	1100
AA570	530/A			223	303	84,5	143	95	80	70	50÷51		12,5	32	7	90	M12	12,5	195	450	2110
AA574	530/E			225	303	84,5	145	95	80	70	50÷51	10		32	7		M12	12,5	450	450	2110





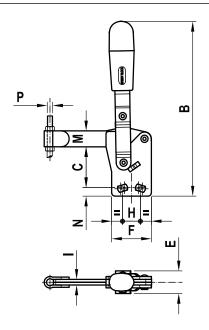
FORM **B**





FORM F





VERTICAL SERIES WITH STRAIGHT BASE

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless

steel

Riveted pivots:

Galvanized steel or **AISI 304 stainless**

steel

Supporting bushes:

Hardened and ground steel (for sizes ≥130)

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form B and **form BX** with open clamping lever and two flanged washers.

Form F and **form FX** with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

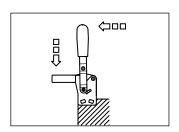
To be ordered separately (see Accessories on page 87).

Features and applications:

During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses.

These tools are designed to prevent the operator's fingers from being crushed by the levers when opening.

A special grease is placed between two contacting surfaces during assembly.



Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AA522	75/B	AS100	75/BX	66,5	109,5	27	37,5	16	29	8	15÷16		5,2	11	5	20	M5	4,5	56	75	98
AA526	75/F	AS110	75/FX	67	109,5	27	38	16	29	8	15÷16	4		11	5		M5	4,5		75	100
AA532	130/B	AS155	130/BX	85	156	35	50	20	35	10	12,5÷19		6,2	16	6,5	28	M6	5,6	71	105	230
AA536	130/F	AS165	130/FX	86	156	35	51	20	35	10	12,5÷19	5		16	6,5		M6	5,6		105	235
AA542	230/B	AS185	230/BX	110,5	183	41,5	67,5	23	43	12	18÷21		8,5	18	6,5	40	M8	6,7	94	200	380
AA546	230/F	AS195	230/FX	112	183	41,5	69	23	43	12	18÷21	6		18	6,5		M8	6,7		200	390
AA552	330/B			129	218	56,5	79	25	50	14	29÷32		10,5	22	9,5	43	M10	8,5	108	240	620
AA556	330/F			130,5	218	56,5	80,5	25	50	14	29÷32	7		22	9,5		M10	8,5		240	620
AA562	430/B			164	267,5	67,5	106	34	58	18	32		12,5	26	10	64	M12	8,5	138	280	1110
AA566	430/F			166	267,5	67,5	108	34	58	18	32	10		26	10		M12	8,5		280	1110
AA572	530/B			223	337	105	146	34	77	18	50÷51		12,5	32	12,5	90	M12	12,5	195	450	1920
AA576	530/F			225	337	105	148	34	77	18	50÷51	10		32	12,5		M12	12,5		450	1920



VERTICAL SERIES WITH FOLDED BASE AND ANTI-RELEASE LEVER

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless

steel

Riveted pivots:

Galvanized steel or AISI 304 stainless

steel

Supporting bushes:

Hardened and ground steel.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form AL and **form ALX** with open clamping lever and two flanged washers.

Form EL and **form ELX** with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

To be ordered separately (see Accessories on page 87).

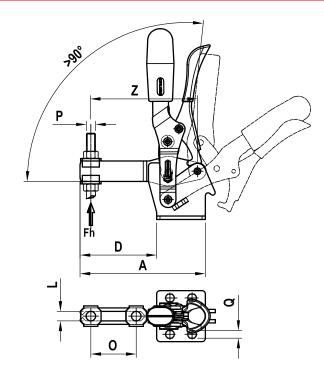
Features and applications:

The main feature of this series is the special anti-release lever with the purpose of avoiding any accidental openings caused by vibrations; and to block the tool in the open position; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses. A special grease is placed between two contacting surfaces during assembly.





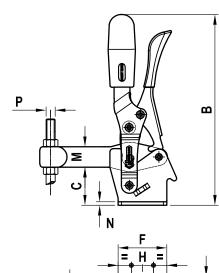


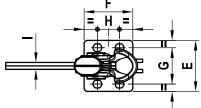


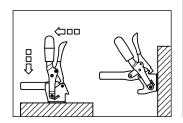




PATENTED



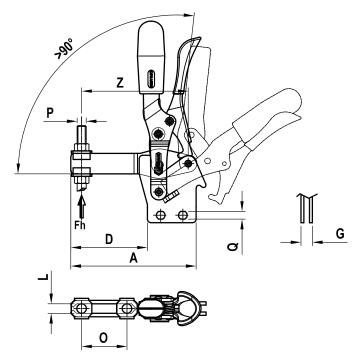




Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	P	Q	Z	Fh (daN)	gr. ∆∆
AA582	130/AL	AS200	130/ALX	85	142	28	50	42	35	27÷29	12,5÷19		6,2	16	2,5	28	M6	5,6	71	105	275
AA586	130/EL	AS204	130/ELX	86	142	28	51	42	35	27÷29	12,5÷19	5		16	2,5		M6	5,6		105	280
AA590	230/AL	AS210	230/ALX	110,5	168	33,5	67,5	45	43	32	18÷21		8,5	18	3	40	M8	6,7	94	200	380
AA594	230/EL	AS214	230/ELX	112	168	33,5	69	45	43	32	18÷21	6		18	3		M8	6,7		200	390

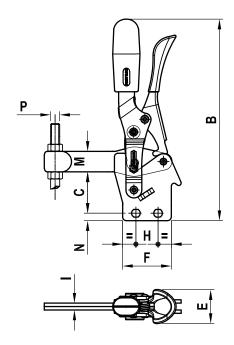






FORM FL





VERTICAL SERIES WITH STRAIGHT BASE AND ANTI-RELEASE

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless

steel

Riveted pivots:

Galvanized steel or AISI 304 stainless steel

Supporting bushes:

Hardened and ground steel.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form BL and **form BLX** with open clamping lever and two flanged washers.

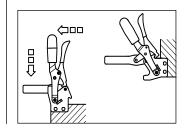
Form FL and form FLX with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The main feature of this series is the special anti-release lever with the purpose of avoiding any accidental openings caused by vibrations; and to block the tool in the open position; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses. A special grease is placed between two contacting surfaces during assembly.



Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AA584	130/BL	AS202	130/BLX	85	156	35-36	50	25,5	35	10	12,5÷19		6,2	16	6,5÷7,5	28	M6	5,6	71	105	275
AA588	130/FL	AS206	130/FLX	86	156	35-36	51	25,5	35	10	12,5÷19	5		16	6,5÷7,5		M6	5,6		105	280
AA592	230/BL	AS212	230/BLX	110,5	183	41,5	67,5	30	43	12	18÷21		8,5	18	6,5	40	M8	6,7	94	200	380
AA596	230/FL	AS216	230/FLX	112	183	41,5	69	30	43	12	18÷21	6		18	6,5		M8	6,7		200	390



VERTICAL SERIES WITH ANTI-RELEASE LEVER AND EXTENDED CLAMPING LEVER

Material:

Galvanized steel

Riveted pivots:

Galvanized steel

Supporting bushes:

Hardened and ground steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form ELS with extended clamping lever and folded base.

Form FLS with extended clamping lever and straight base.

Spindles:

To be ordered separately (see Accessories on page 87).

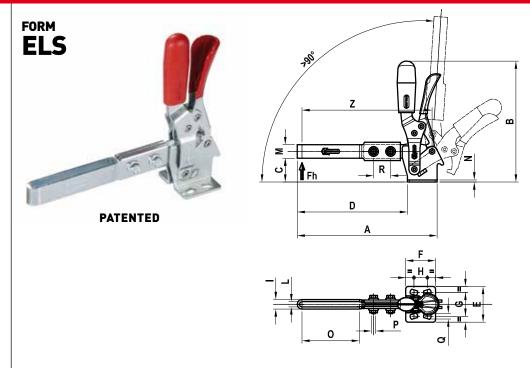
Extensions:

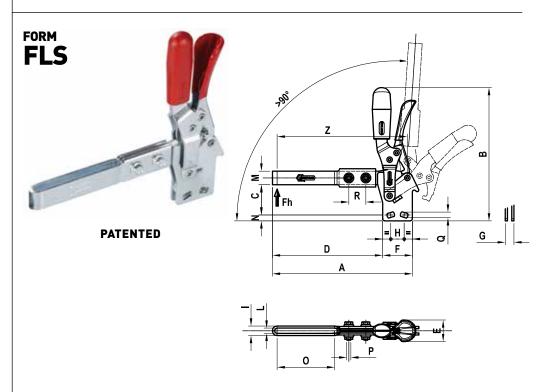
The models are supplied with AP6 and AP8 extension as per the drawing and with two flanged washers (see Accessories on page 90).

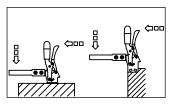
Features and applications:

The main features of this series are the special anti-release lever and the special extension of the locking arm to facilitate the specific use in control templates; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses.

A special grease is placed between two contacting surfaces during assembly.

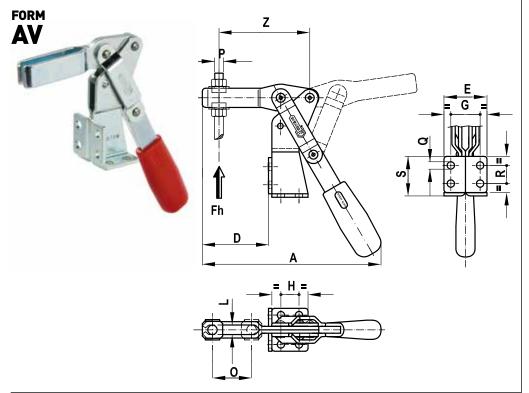






Code	Description	A	В	С	D	E	F	G	Н	- 1	L	М	N	0	Р	Q	R	Z	Fh daN)	gr. ∆∆
AA587	130/ELS	164	142	28	129	42	35	27÷29	12,5÷19	11,3	6,3	16	2,5	67,5	M6	5,6	20	152	50	375
AA589	130/FLS	164	156	35÷36	129	25,5	35	10	12,5÷19	11,3	6,3	16	6,5÷7,5	67,5	M6	5,6	20	152	50	375
AA595	230/ELS	198	168	33,5	155	45	43	32	19,5	14,2	8,2	18	3	71,5	M8	6,7	26	182	100	545
AA597	230/FLS	198	183	41,5	155	30	43	12	19,5	14,2	8,2	18	6,5	71,5	M8	6,7	26	182	100	545





FORM EV ω

VERTICAL SERIES WITH FOLDED AND FRONT BASE

Material:

Galvanized steel

Riveted pivots:

Galvanized steel

Supporting bushes:

Hardened and ground steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

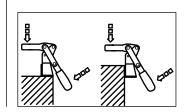
Form AV with open clamping lever and two flanged washers.

Form EV with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

To be ordered separately (see Accessories on page 87).

A special grease is placed between two contacting surfaces during assembly. This series is pneumatically actuated it is found on page 76-77.



Code	Description	Α	В	С	D	E	F	G	Н	1	L	М	N	0	P	Q	R	S	Z	Fh (daN)	gr. ∆∆
AA220	200/AV	157	154	76	58,5	38	35	26	16		8,5	17	3	34	M8	6,5	16	32	86	120	430
AA225	200/EV	159	154	76	60,5	38	35	26	16	6		17	3		M8	6,5	16	32		120	430
AA320	300/AV	193	198	108	76	48	48	30	28		10,4	20	3	42	M10	8,5	30	51	110	190	800
AA325	300/EV	195	198	108	78	48	48	30	28	8		20	3		M10	8,5	30	51		190	800



VERTICAL SERIES WITH STRAIGHT AND FRONT BASE

Material:

Galvanized steel

Riveted pivots:

Galvanized steel

Supporting bushes:

Hardened and ground steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

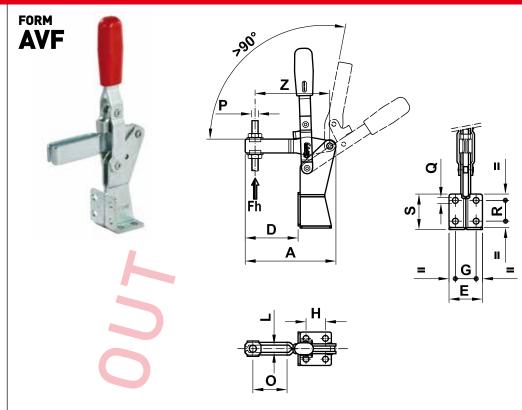
Form AVF with open clamping lever and two flanged washers.

Form EVF with full clamping lever and bolt retainers to be welded in the desired position and angle.

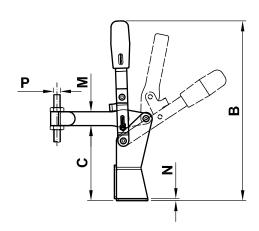
Spindles:

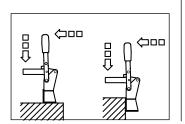
To be ordered separately (see Accessories on page 87).

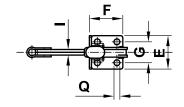
A special grease is placed between two contacting surfaces during assembly. This pneumatic actuated series is found on page 78-791.







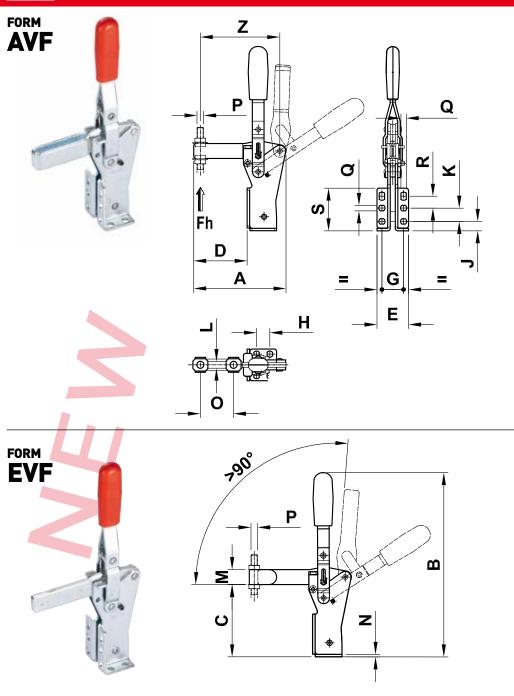




Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	R	S	Z	Fh (daN)	gr. ∆∆
AA221	200/AVF	103	203	77	59	38	35	26	16		8,5	17	3	36	M8	6,5	16	32	86	160	390
AA226	200/EVF	105	203	77	61	38	35	26	16	6		17	3		M8	6,5	16	32		160	400
AA321	300/AVF	130	258	108	76	48	48	30	28		10,3	20	3	50	M10	8,5	30	48	110	240	680
AA326	300/EVF	132	258	108	77,5	48	48	30	28	8		20	3		M10	8,5	30	48		240	690







VERTICAL SERIES WITH STRAIGHT AND FRONT BASE

Material:

Galvanized steel

Riveted pivots:

Galvanized steel

Supporting bushes:

Hardened and ground steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

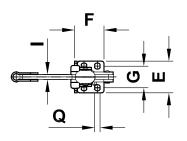
Form AVF with open clamping lever and two flanged washers.

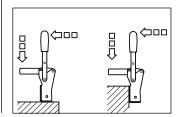
Form EVF with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

To be ordered separately (see Accessories on page 87).

A special grease is placed between two contacting surfaces during assembly. This pneumatic actuated series is found on page 79.





Code	Description	A	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	P	Q	R	S	Z	Fh (daN)	gr. ∆∆
AA090	75/AVF	67	120	43	35,5	34	22	24	12,5		10	12,5	5,2	11	2	20	M5	4,5		30	56	75	130
AA092	75/EVF	67,5	120	43	36,5	34	22	24	12,5	4	10	12,5		11	2		M5	4,5		30		75	130
AA142	130/AVF	85	184	70	43	42	28	27	12,5		16	12,5	6,2	16	2,5	28	M6	5,6	12,5	49	71	110	300
AA144	130/EVF	86	184	70	44	42	28	27	12,5	5	16	12,5		16	2,5		M6	5,6	12,5	49		110	300
AA223	230/AVF	111	222	87	64	38	32	26	16		11	16	8,5	18	3	40	M8	6,5	14,25	51	94	220	500
AA228	230/EVF	112	222	87	65	38	32	26	16	6	11	16		18	3		M8	6,5	14,25	51		220	500
AA322	330/AVF	129	259	108	71	48	45	30	28		19	30	10,5	22	3,5	45	M10	8,5	20	79	110	260	800
AA328	330/EVF	131	259	108	73	48	45	30	28	7	19	30		22	3,5		M10	8,5	20	79		260	800



HEAVY-DUTY VERTICAL SERIES

Material:

Weldable phosphated steel.

Pivots:

Hardened and ground steel.

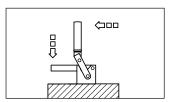
Supporting bushes:
Hardened and ground steel.

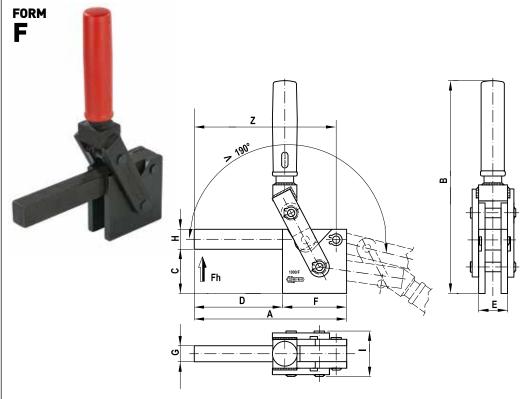
Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Features and applications:

Series generally used for heavy-duty applications requiring requiring higher resistant forces. The clamps of this series are built to be easily disassembled for reworking of the individual elements depending on the requirements of use.





Code	Description	A	В	С	D	E	F	G	Н	1	Z	Fh (daN)	gr. ∆∆
AA900	1000/F	190	265	55	110	36	80	20	25	57,5	176	1000	2400
AA905	2000/F	220	295	65	120	36	100	20	35	57,5	200	2000	3600
ΔΔ910	3000/F	250	320	80	140	45	110	25	40	71	228	3000	5700











LONG LIF

REINFORCED LONG LIFE SERIES: the hot forged parts, as well as hardened and ground pivots and bushings, make this series suitable for heavy duty loads and a long operating life.

TOGGLE MECHANISM: the accessories such as clamping arm and control lever can be welded according to applications for use.

PECULIARITIES AND ADVANTAGES: • The clamping and control levers are forged. • All pivots are hardened and ground and flow into similar bushings. • Red, ergonomic and oil resistant handles. • The clamping arm guide is adjustable.

APPLICATIONS: For uses in medium and heavy duty clamping works, on welding jigs, carpentry works, moulds and generally when high clamping forces are needed and when there is strong repetitiveness of movements.

TOGGLE MECHANISM: Same peculiarities and applications as the previous vertical reinforced series. The design of these mechanisms is more versatile, being possible to weld the different parts and accessories and make up your clamp to better meet the requirements for all types of clamping needs.

REINFORCED VERTICAL SERIES



REINFORCED VERTICAL SERIES WITH FOLDED BASE

Material:

Phosphated steel.

Pivots:

Hardened and ground steel.

Supporting bushes:

Hardened and ground steel.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form A with open clamping lever and two flanged washers.

Form E with eyelet clamping lever to insert the spindle.

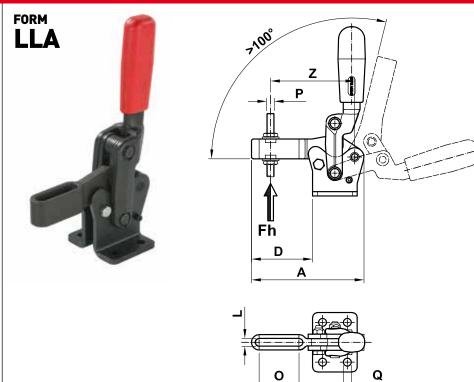
Spindles:

To be ordered separately (see Accessories on page 87).

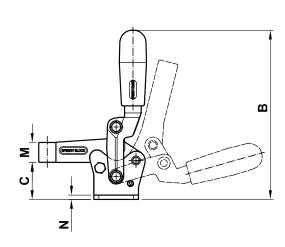
Features and applications:

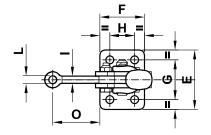
The clamping levers and control levers are forged; the guide of the clamping lever is adjustable.

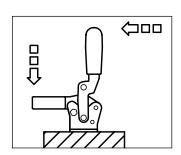
This series is usually used for medium and heavy duty clamping works, on welding jigs, carpentry works, moulds and generally when high clamping forces are needed and when there is strong repetitiveness of movements.







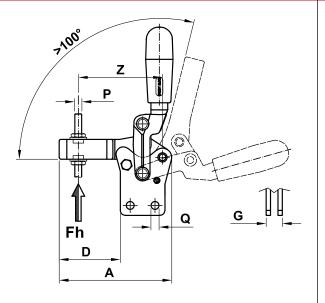


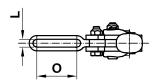


Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AA600	LLA01	91	136,5	30	49	48	36	32	20		6,3	16	3,5	32	M6	6,5	77	220	330
AA610	LLE01	86	136,5	30	44	48	36	32	20	6	6,5	16	3,5	38	M6	6,5		220	325
AA630	LLA02	129,5	215	50	64	65	54	45	30		10,3	24	5	34	M10	8,5	107	440	1200
AA640	LLE02	129,5	215	50	64	65	54	45	30	10	10,5	24	5	54,5	M10	8,5		440	1200
AA660	LLE03	161	280	67	74	75	75	55	55	12	12,5	30	6	62	M12	10,5		850	1200
AA680	LLE04	203	330	76.5	96	100	90	65	65	16	16.5	35	8	80	M16	12.5		1540	4510

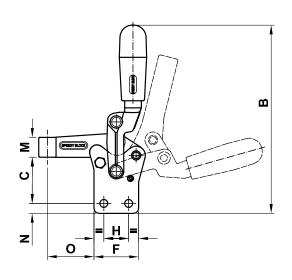
REINFORCED VERTICAL SERIES

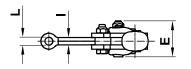












REINFORCED **VERTICAL SERIES** WITH STRAIGHT BASE

Material:

Phosphated steel.

Pivots:

Hardened and ground steel.

Supporting bushes:

Hardened and ground steel.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form B with open clamping lever and two flanged washers.

Form F with eyelet clamping lever to insert the spindle.

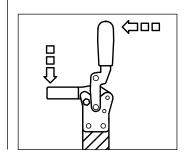
Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The clamping levers and control levers are forged; the guide of the clamping lever is adjustable.

This series is usually used for medium and heavy duty clamping works, on welding jigs, carpentry works, moulds and generally when high clamping forces are needed and when there is strong repetitiveness of movements.



Code	Description	A	В	С	D	E	F	G	Н	- 1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AA605	LLB01	91	152	37,5	49	29	36	13	20		6,3	16	8	32	M6	6,5	77	220	330
AA615	LLF01	86	152	37,5	44	29	36	13	20	6	6,5	16	8	38	M6	6,5		220	325
AA635	LLB02	129,5	235	59,5	64	42	54	20	30		10,3	24	10	34	M10	8,5	107	440	1200
AA645	LLF02	129,5	235	59,5	64	42	54	20	30	10	10,5	24	10	54,5	M10	8,5		440	1200
AA665	LLF03	161	301	78	74	52	75	24	55	12	12,5	30	10	62	M12	10,5		850	1200
AA685	LLF04	203	330	88,5	96	68	90	32	65	16	16,5	35	17,5	80	M16	12,5		1540	4510

TOGGLE MECHANISMS



TOGGLE MECHANISMS WITH FOLDED BASE AND STRAIGHT BASE

Material:

Phosphated steel.

Pivots: Hardened and ground steel.

Supporting bushes:

Hardened and ground steel.

Accessories:

To be ordered separately (see Accessories on page 26).

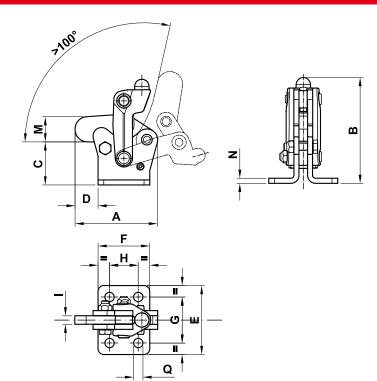
Features and applications:

The clamping and control levers are forged; for uses in medium and heavy duty clamping works, on welding jigs, carpentry works, moulds and generally when high clamping forces are needed and when there is strong repetitiveness of movements.

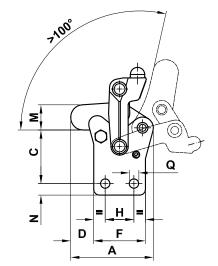
The design of these mechanisms is more versatile, as it is possible to weld the different parts and accessories and make up your clamp to better meet your requirements.

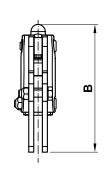


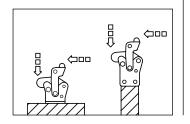


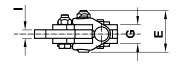










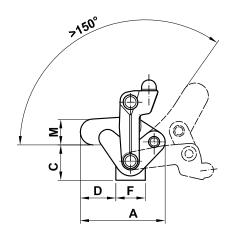


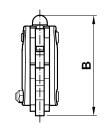
Code	Desciption	A	В	С	D	E	F	G	Н	1	М	N	Q	Fh (daN)	gr. △△
AA700	LSC01	57,5	71	30	16	48	36	32	20	6	17,5	3,5	6,5	220	256
AA725	LSC02	85,5	121	50	20	65	54	45	30	10	28	5	8,5	440	967
AA750	LSC03	115	158	67	28	75	75	55	55	12	35	6	10,5	850	1900
AA775	LSC04	147,5	193	76,5	40,5	100	90	65	65	16	40,5	8	12,5	1540	3980

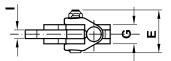
Code	Desciption	Α	В	С	D	E	F	G	Н	- 1	М	N	Q	Fh (daN)	gr. △△
AA705	LSG01	57,5	86	37,5	16	29	36	13	20	6	17,5	8	6,5	220	256
AA730	LSG02	85,5	140,5	59,5	20	42,5	54	20	30	10	28	10	8,5	440	967
AA755	LSG03	115	180	78	28	52	75	24	55	12	35	10	10,5	850	1900
AA780	LSG04	147,5	222	88,5	40,5	68	90	32	65	16	40,5	17,5	12,5	1540	3980

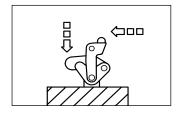
TOGGLE MECHANISMS











TOGGLE **MECHANISM** WITH SWINGING BASE

Material:

Phosphated steel.

Pivots: Hardened and ground steel.

Supporting bushes:

Hardened and ground steel.

Accessories:

To be ordered separately (see Accessories on page 26).

Features and applications:

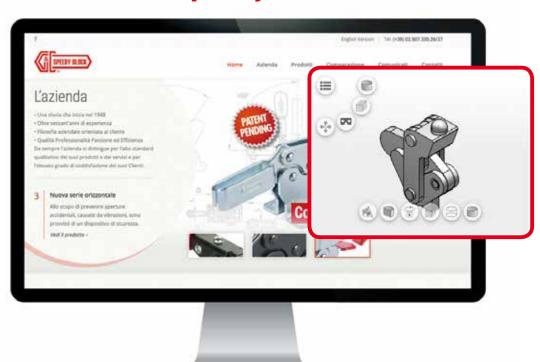
The clamping and control levers are forged; for uses in medium and heavy duty clamping works, on welding jigs, carpentry works, moulds and generally when high clamping forces are needed and when there is strong repetitiveness of movements.

The design of these mechanisms is more versatile, as it is possible to weld the different parts and accessories and make up your clamp to better meet your requirements.

Code	Desciption	A	В	С	D	E	F	G		М	Fh (daN)	gr. ∆∆
AA710	LSH01	57,5	68	24	24	29	20	13	6	17,5	220	268
AA735	LSH02	85,5	113	42	32	42	30	20	10	28	440	820
AA760	LSH03	115	148	57	40,5	52	50	24	12	35	850	1600
AA785	LSH04	147,5	183	66,5	55,5	68	60	32	16	40,5	1540	3450

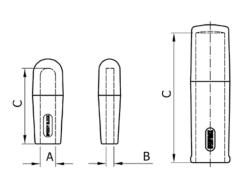
Per avere maggiori informazioni tecniche e scaricare i disegni tecnici in formato 2D-3D visita il sito

www.speedyblock.com



LONG LIFE SERIES ACCESSORIES

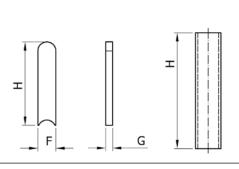






HANDLE

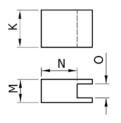
Code	Description	A	В	С	F	gr. ∆∆
AU151	10151	13	5	55		12
AU154	10154	20	8	77		34
AU156	10156			112	22	50
AU157	10157			112	25	50





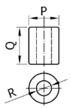
CONTROL LEVER

Code	Description	F	G	Н	gr. ∆∑
AU250	LC01	13	5	63	31
AU255	LC02	20	8	90	108
AU260	LC03	22		122	122
AU265	LC04	25		138	175



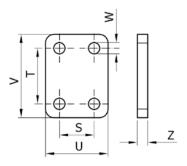


Code	Description	K	М	N	0	yı. ∆∆
AU230	LS01	16	10	15,5	6	23
AU235	LS02	24	15	24	10	75,5
AU240	LS03	30	20	22,1	12	130
AU245	LS04	35	25	23,5	16,2	160



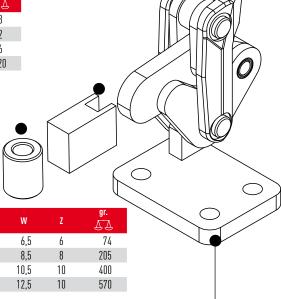


Description	P	Q	R	gr. ∆∆
LM01	13	16	6,5	13
LM02	20	24	10,5	42
LM03	24	30	12,5	76
LM04	32	35	16,5	120
	LM01 LM02 LM03	LM01 13 LM02 20 LM03 24	LM01 13 16 LM02 20 24 LM03 24 30	LM01 13 16 6,5 LM02 20 24 10,5 LM03 24 30 12,5





Code	Description	s	T	U	V	w	Z	gr. ∡∡
AU300	PB01	20	32	36	48	6,5	6	74
AU305	PB02	30	45	54	65	8,5	8	205
AU310	PB03	55	55	75	75	10,5	10	400
AU315	PB04	65	65	90	100	12,5	10	570



















The control and clamping levers move in opposite directions. When clamping is obtained, the control lever is in the horizontal position. Available with clamping forces between 40 and 620 daN.

PERFORMANCE

Parts made of case-hardening sheet steel. Hardened and tempered supporting pivots. Supporting bushes (for sizes from 350 daN and over) undergo casehardening and grinding. Finish: Galvanized. The shape of the tool ensures a safe distance between the clamping and control lever that prevents the operator's fingers from getting stuck during the opening of the tool.

The clamping lever is guided in the locked position for additional stability any sideways movement.

In order to prevent accidental openings, caused by vibrations, some tools of this series are provided with a device called "safety device", suitable for maintaining the clamp in a closed position.



HORIZONTAL SERIES WITH FOLDED BASE

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless

Riveted pivots:

Galvanized steel or **AISI 304 stainless**

steel

Supporting bushes:

Hardened and ground steel (for sizes ≥ 355).

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

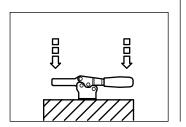
Form M and **form MX** with open clamping lever and two flanged washers.

Form 0 and **form 0X** with full clamping lever and bolt retainers to be welded in the desired position and angle.

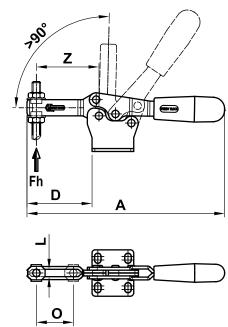
Spindles: To be ordered separately (see Accessories on page 87).

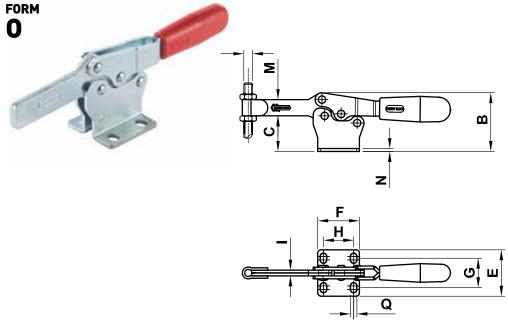
Features and applications:

The main feature of this series is the low profile of the tool; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses. A special grease is placed between two contacting surfaces during assembly.

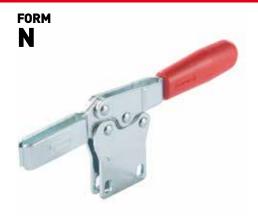


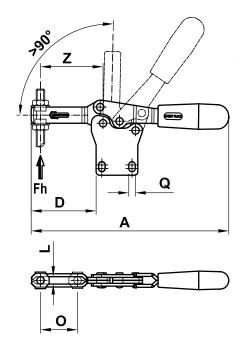






Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	-1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AD025	25/M	DS025	25/MX	68	23	12	19	24,5	24	16	15		4,2	7	1,2	10	M4	4,3	21	40	25
AD075	75/M	DS075	75/MX	118	37	20	39	26	28	16÷19	13,5		5,3	11	2	20	M5	4,5	36	90	88
AD085	75/0	DS085	75/OX	118,5	37	20	39,5	26	28	16÷19	13,5	4		11	2		M5	4,5		90	88
AD135	130/M	DS135	130/MX	171,5	51	30,5	56,5	40	36	22,4÷28,4	26		6,3	16	2,5	32	M6	5,6	55	100	200
AD145	130/0	DS145	130/0X	172	51	30,5	57	40	36	22,4÷28,4	26	5		16	2,5		M6	5,6		100	200
AD270	230/M	DS270	230/MX	196	61,5	36,5	65	44	44	26÷31,5	26		8,5	18	3	37	M8	6,6	62	170	330
AD280	230/0	DS280	230/OX	196,5	61,5	36,5	66	44	44	26÷31,5	26	6		18	3		M8	6,6		170	340
AD370	355/M			270	83	50	100	58	60	38,8÷43	41		10,5	22	3,5	58	M10	8,6	98	180	700
AD380	355/0			270	83	50	101	58	60	38,8÷43	41	7		22	3,5		M10	8,6		180	720
AD470	455/M			305	99	60	113	65	70	40÷43	41,5		12,5	26	4	65	M12	8,7	113	320	1200
AD480	455/0			306,5	99	60	115,5	65	70	40÷43	41,5	10		26	4		M12	8,7		320	1230





FORM G Σ Ω ⋪

HORIZONTAL SERIES WITH STRAIGHT BASE.

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless steel

Riveted pivots:

Galvanized steel or AISI 304 stainless steel

Supporting bushes:

Hardened and ground steel (for sizes \geq 355).

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form N and **form NX** with open clamping lever and two flanged washers.

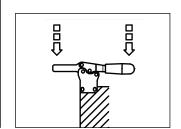
Form P and form PX with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The main feature of this series is the low profile of the tool; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses. A special grease is placed between two contacting surfaces during assembly.



Code	Description	Stainless steel Code	Description	A	В	С	D	F	G	Н	-1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AD080	75/N	DS080	75/NX	118	45,5	24÷25,5	39	28	8	13,5		5,3	11	5÷3,5	20	M5	4,5	36	90	88
AD090	75/P	DS090	75/PX	118,5	45,5	24÷25,5	39,5	28	8	13,5	4		11	5÷3,5		M5	4,5		90	88
AD140	130/N	DS140	130/NX	171,5	64,5	35÷38	56,5	36	10	26		6,3	16	8,8÷5,8	32	M6	5,6	55	100	200
AD150	130/P	DS150	130/PX	172	64,5	35÷38	57	36	10	26	5		16	8,8÷5,8		M6	5,6		100	200
AD275	230/N	DS275	230/NX	196	75,5	42÷44,5	65	44	12	26		8,5	18	9÷6,5	37	M8	6,6	62	170	330
AD285	230/P	DS285	230/PX	196,5	75,5	42÷44,5	67	44	12	26	6		18	9÷6,5		M8	6,6		170	340
AD375	355/N			270	103	60÷62	100	60	14	41		10,5	22	9,6÷7,5	58	M10	8,6	98	180	700
AD385	355/P			270	103	60÷62	101	60	14	41	7		22	9,6÷7,5		M10	8,6		180	720
AD475	455/N			305	120	68÷69,5	113	70	18	41,5		12,5	26	12,5÷11	65	M12	8,7	113	320	1200
AD485	455/P			306,5	120	68÷69,5	115,5	70	18	41,5	10		26	12,5÷11		M12	8,7		320	1230



HORIZONTAL SERIES WITH FOLDED BASE AND WITH SAFETY LEVER

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or **AISI 304 stainless steel**

Riveted pivots:

Galvanized steel or **AISI 304 stainless** steel

Supporting bushes:

Hardened and ground steel (for sizes ≥ 355).

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

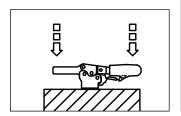
Form ML and **form MLX** with open clamping lever and two flanged washers.

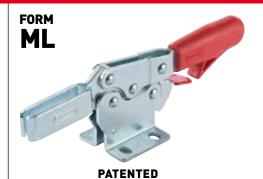
Form OL and **form OLX** with full clamping lever and bolt retainers to be welded in the desired position and angle.

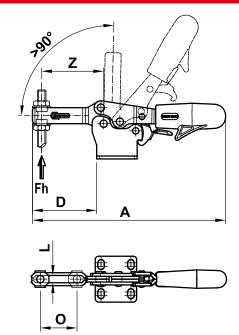
Spindles:

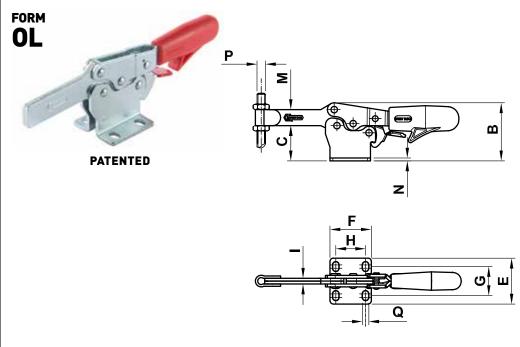
To be ordered separately (see Accessories on page 87).

Features and applications: The main feature of this series is the special anti-release lever with the purpose of avoiding any accidental openings caused by vibrations; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses. A special grease is placed between two contacting surfaces during assembly.

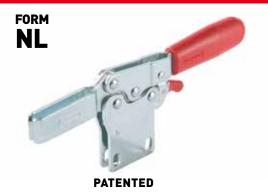


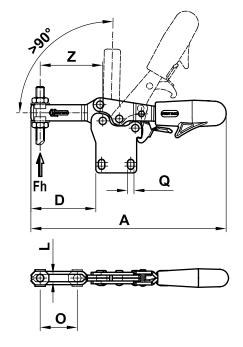






Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AD092	75/ML	DS100	75/MLX	118	37	20	39	26	28	16÷19	13,5		5,3	11	2	20	M5	4,5	36	90	90
AD096	75/0L	DS104	75/OLX	118,5	37	20	39,5	26	28	16÷19	13,5	4		11	2		M5	4,5		90	90
AD152	130/ML	DS152	130/MLX	171,5	51	30,5	56,5	40	36	22,4÷28,4	26		6,3	16	2,5	32	M6	5,6	55	100	200
AD156	130/0L	DS156	130/0LX	172	51	30,5	57	40	36	22,4÷28,4	26	5		16	2,5		M6	5,6		100	200
AD290	230/ML	DS287	230/MLX	196	61,5	36,5	65	44	44	26÷31,5	26		8,5	18	3	37	M8	6,6	62	170	320
AD294	230/0L	DS291	230/OLX	196,5	61,5	36,5	66	44	44	26÷31,5	26	6		18	3		M8	6,6		170	330
AD390	355/ML			270	83	50	100	58	60	38,8÷43	41		10,5	22	3,5	58	M10	8,6	98	180	750
AD394	355/0L			271	83	50	101	58	60	38,8÷43	41	7		22	3,5		M10	8,6		180	750
AD490	455/ML			305	99	60	113	65	70	40÷43	41,5		12,5	26	4	65	M12	8,7	113	320	1200
AD494	455/0L			306,5	99	60	115,5	65	70	40÷43	41,5	10		26	4		M12	8,7		320	1220





FORM PL G മ **PATENTED** H

HORIZONTAL SERIES WITH STRAIGHT BASE AND WITH ANTI-RELEASE

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless steel

Riveted pivots:

Galvanized steel

or AISI 304 stainless steel

Supporting bushes:

Hardened and ground steel (for sizes \geq 355).

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form NL and **form NLX** with open clamping lever and two flanged washers.

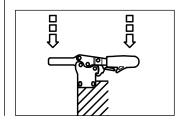
Form PL and form PLX with full clamping lever and bolt retainers to be welded in the desired position and angle.

Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The main feature of this series is the special anti-release lever with the purpose of avoiding any accidental openings caused by vibrations; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses. A special grease is placed between two contacting surfaces during assembly.



Codice	Descrizione	Stainless steel Code	Description	A	В	C	D	F	G	Н	1	L	М	N	0	P	Q	Z	Fh (daN)	gr. ∆∆
AD094	75/NL	DS102	75/NLX	118	45,5	24÷25,5	39	28	8	13,5		5,3	11	5÷3,5	20	M5	4,5	36	90	90
AD098	75/PL	DS106	75/PLX	118,5	45,5	24÷25,5	39,5	28	8	13,5	4		11	5÷3,5		M5	4,5		90	90
AD154	130/NL	DS154	130/NLX	171,5	64,5	35÷38	56,5	36	10	26		6,3	16	8,8÷5,8	32	M6	5,6	55	100	200
AD158	130/PL	DS158	130/PLX	172	64,5	35÷38	57	36	10	26	5		16	8,8÷5,8		M6	5,6		100	200
AD292	230/NL	DS289	230/NLX	196	75,5	42÷44,5	65	44	12	26		8,5	18	9÷6,5	37	M8	6,6	62	170	320
AD296	230/PL	DS293	230/PLX	196,5	75,5	42÷44,5	66	44	12	26	6		18	9÷6,5		M8	6,6		170	330
AD392	355/NL			270	102	60÷62	100	60	14	41		10,5	22	9,6÷7,5	58	M10	8,6	98	180	730
AD396	355/PL			271	102	60÷62	101	60	14	41	7		22	9,6÷7,5		M10	8,6		180	750
AD492	455/NL			305	120	68÷69,5	113	70	18	41,5		12,5	26	12,5÷11	65	M12	8,7	113	320	1200
AD496	455/PL			306,5	120	68÷69,5	115,5	70	18	41,5	10		26	12,5÷11		M12	8,7		320	1220



HORIZONTAL SERIES WITH ANTI-RELEASE LEVER AND EXTENDED CLAMPING LEVER

Material:

Galvanized steel

Riveted pivots:

Galvanized steel

Supporting bushes:

Hardened and ground steel.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form OLS with extended clamping lever and folded base.

Form PLS with extended clamping lever and straight base.

Spindles:

To be ordered separately (see Accessories on page 87).

Extensions:

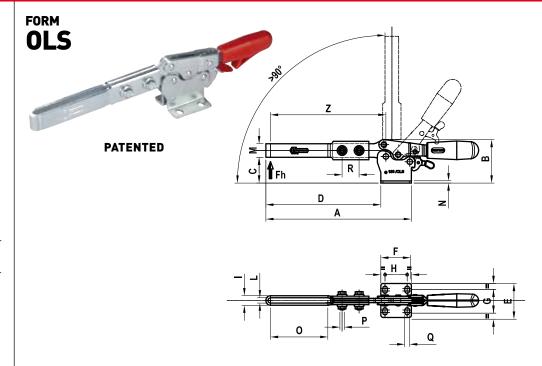
The models are supplied with AP6 and AP8 extension as per the drawing and with two flanged washers (see Accessories on page 90).

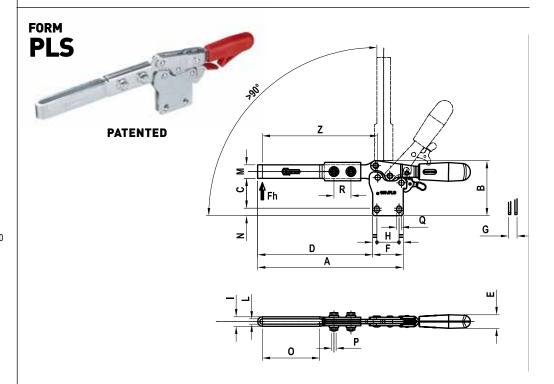
Features and applications:

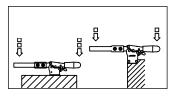
The main features of this series are the special anti-release lever and the special extension of the locking arm to facilitate the specific use in control templates; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses.

A special grease is placed between two

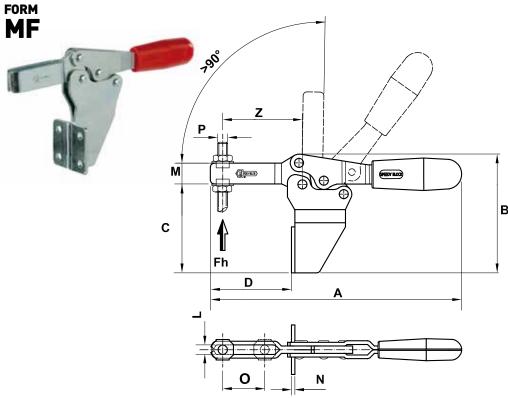
contacting surfaces during assembly.







Code	Description	Α	В	С	D	E	F	G	Н	-1	L	М	N	0	P	Q	R	Z	Fh (daN)	gr. △△
AD146	130/0LS	171	51	30,5	135	40	36	22,4÷28,4	26	11,5	6,3	16	2,5	67,5	M6	5,6	20	134	60	295
AD151	130/PLS	171	64,5	35÷38	135	16	36	10	26	11,5	6,3	16	5,8÷8,8	67,5	M6	5,6	20	134	60	295
AD295	230/0LS	196	61,5	36,5	152	44	44	26÷31,5	26	14,2	8,2	18	3	71,5	M8	6,6	26	150	110	485
AD297	230/PLS	196	75,5	42÷44,5	152	16	44	12	26	14,2	8,2	18	6,5	71,5	M8	6,6	26	150	110	485



HORIZONTAL SERIES WITH FRONT BASE

Some sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or AISI 304 stainless

steel

Riveted pivots:

Galvanized steel or AISI 304

stainless steel

Supporting bushes:

Hardened and ground steel (for sizes ≥355)

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form MF and **form MFX** with open clamping lever and two flanged washers.

Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The main feature of this series is the front mount; these tools are designed to prevent the operator's fingers from being crushed by the levers when opening. During the closing, the clamping lever is guided laterally to ensure greater stability against possible transverse stresses.

A special grease is placed between two contacting surfaces during assembly.

<u>↑</u>	
	7

Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	L	М	N	0	Р	Q	Z	Fh (daN)	gr. ∆∆
AD076	75/MF	DS076	75/MFX	118	62	45	36	30	25,5	18	13,5	5,5	11	2	20	M5	4,5	36	90	105
AD136	130/MF	DS136	130/MFX	171,5	85	64	54	39	35	26	22	6,5	16	2,5	32	M6	5,5	55	100	240
AD271	230/MF	DS271	230/MFX	196	102	77	62	43	40	28,5	24	8,5	18	3	37	M8	6,5	62	170	400
AD371	355/MF			269	135	102	96	52	52	32	32	10.5	22	3.5	58	M10	8.5	98	180	830











In this series, the circular movement of the control lever is transformed into a linear movement of the push rod. Except for models 120/AS and 300/AS, this series works and clamps either by pushing or pulling. The light version meets clamping requirements from 80 to 720 daN, while the heavy-duty series from 120 to 4500 daN.

PERFORMANCE

FOR THE LIGHT SERIES: Push rod, guide sleeve and other parts in galvanized sheet steel.

The main feature of the ASD/ASS models is the low force application point as well as the very reduced vertical encumbrance. Models 80-165-340/AS have the possibility of front mounting with an external thread that enables rotation of the control lever to the most favourable position for use. The bracket increases the range of applications.

FOR THE HEAVY-DUTY SERIES: Hot forged ASTM A105 steel base body with manganese phosphated finishing for all sizes. Riveted pins for sizes 70-160-360. Pins with bushings hardened for the other sizes. Push rod and control lever in galvanized steel.





PUSH AND PULL STRAIGHT-LINE ACTION SERIES

Material:

Galvanized steel

Riveted pivots, sliding push bar and bearing:

Galvanized steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form ASS

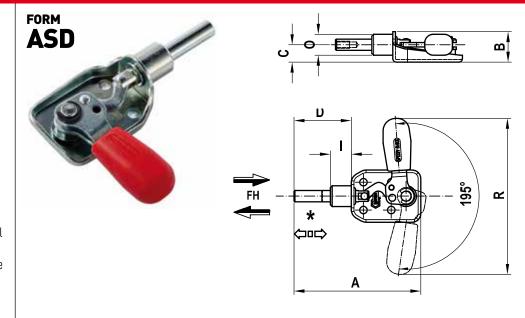
- push clamping with clockwise control lever rotation
- traction clamping with anti-clockwise control lever rotation
- Form ASD
- push clamping with anti-clockwise control lever rotation
- -traction clamping with clockwise control lever rotation

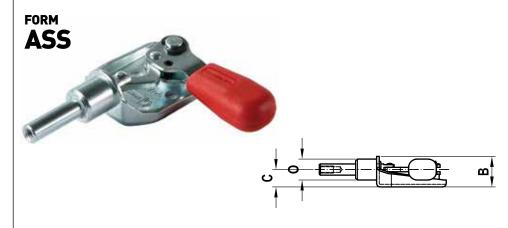
Spindles:

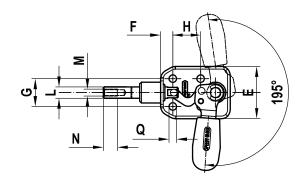
To be ordered separately (see Accessories on page 87).

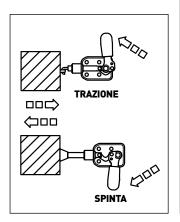
Features and applications:

The main feature of this series is its low force application point as well as the very reduced vertical encumbrance. A special grease is placed between two contacting surfaces during assembly.

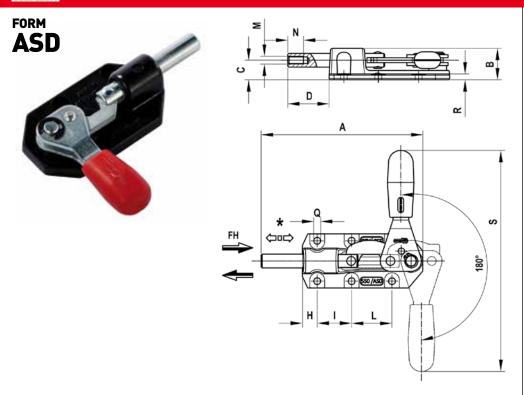








Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Q	R	*	Fh (daN)	gr. ∆∆
AG050	50/ASD	73	17,5	10	33	30,5	7	16	16	12	6,5	M4	9	12	4,3	90	16	80	60
AG055	50/ASS	73	17,5	10	33	30,5	7	16	16	12	6,5	M4	9	12	4,3	90	16	80	60



FORM ASS D 180°

PUSH AND PULL STRAIGHT-LINE ACTION SERIES

Material:

Galvanized steel

Riveted pivots, push bar and control lever:

Galvanized steel

Basic clamp body:

ASTM A105 hot forged steel with manganese phosphated finishing.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

Form ASS

- push clamping with clockwise control lever rotation
- traction clamping with anti-clockwise control lever rotation

Form ASD push clamping

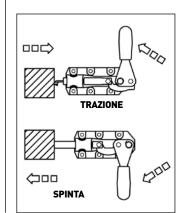
- with anti-clockwise control lever
- traction clamping with clockwise control lever rotation

Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The main feature of this series is its low force application point as well as the very reduced vertical encumbrance. A special grease is placed between two contacting surfaces during assembly.



Code	Description	A	В	С	D	E	F	G	Н	-1	L	М	N	P	Q	R	S	*	Fh (daN)	gr. ∆∆
AG075	70/ASD	85	19,5	12	22	36	64	26	13	26		M6	12	8,5	4,3	6	98	20	90	160
AG080	70/ASS	85	19,5	12	22	36	64	26	13	26		M6	12	8,5	4,3	6	98	20	90	160
AG165	160/ASD	117	25	15	32	46	85	33,5	11,5	36,5		M6	12	11	5,5	7	158	30	130	350
AG170	160/ASS	117	25	15	32	46	85	33,5	11,5	36,5		M6	12	11	5,5	7	158	30	130	350
AG175	550/ASD	164,5	32	20	42	55	122,5	41	15	35	41	M8	16	14	7	7	225	42	450	720
AG180	550/ASS	164,5	32	20	42	55	122,5	41	15	35	41	M8	16	14	7	7	225	42	450	720



ONLY PUSH STRAIGHT-LINE ACTION SERIES

Material:

Galvanized steel

Riveted pivots, push bar, sliding bearing and nut:

Galvanized steel

Handles:

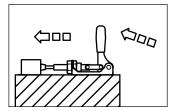
Red polyurethane resistant to oils, grease and other chemical agents.

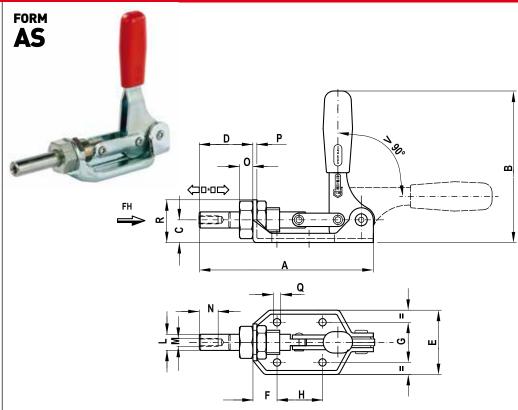
Spindles:

To be ordered separately (see Accessories on page 87).

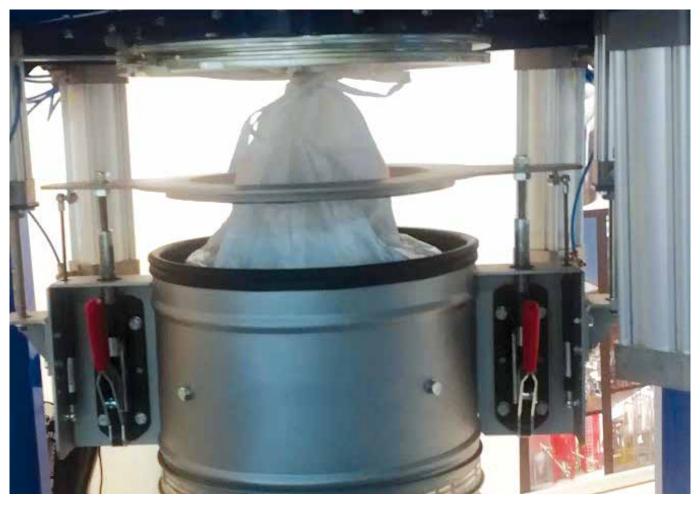
Features and applications:

The tools of this series can only be pushed.

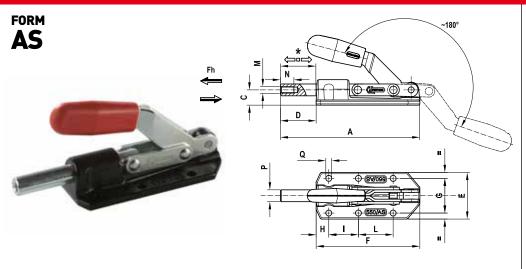


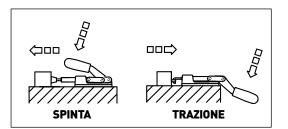


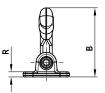
Code	Description	A	В	C	D	E	F	G	Н	L	М	N	0	P	Q	R		Fh (daN)	gr. ∆∆
AG120	120/AS	130	111	17	40	48	18	30	34	12	M6	12	10	3	5,5	32	20	360	350
AG300	300/AS	167	140	20	57	58	18	34	50	14	M8	16	12	3	6,5	36	33	720	560











PUSH AND PULL STRAIGHT-LINE ACTION SERIES

Material: Galvanized steel Riveted pivots, push bar and control lever: Galvanized steel Basic clamp body: STM A105 hot forged steel and 304 stainless steel for mod. 70-160-360 / ASX

Finish: Manganese phosphating for mod. 70-160-1100 / AS. Painting for mod. 360-550-2100-3100 / AS. Polishing for mod. 70-160-360 / ASX **Handles:** Red polyurethane; resistant to oils, grease and other chemical agents.

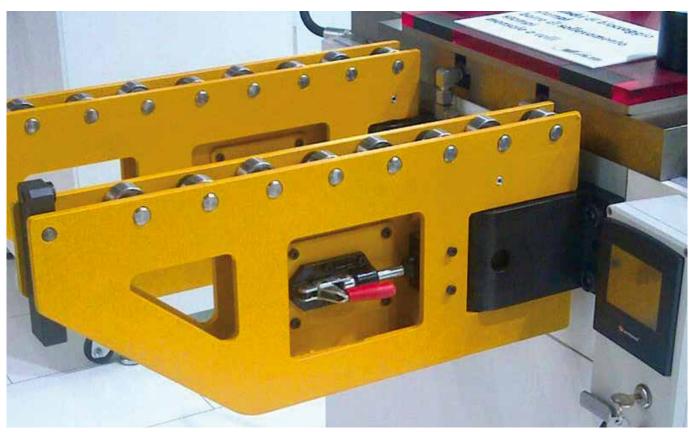
Spindles: To be ordered separately (see Accessories on page 87).

Features and applications:

The tools of this series can either be pushed or pulled.

A special grease is placed between two contacting surfaces during assembly. This pneumatic actuated series is found on page 84-85.

Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	-1	L	М	N	P	Q	R		Fh (daN)	gr. ∆∆
AG070	70/AS	AS395	70/ASX	86	41	12	22	36	64	26	13	26		M6	12	8,5	4,3	6	20	120	165
AG160	160/AS	AS397	160/ASX	116	56	15	31	46	85	33,5	11,5	36,5		M6	12	11	5,5	7	30	280	360
AG351	360/AS	AS399	360/ASX	122	70	25	32	45,5	90	33,5	30	36,5		M8	15	12	5,5	7	32	560	485
AG355	550/AS			164,5	75	18	42	55	122,5	41	15	35	41	M8	16	14	7	7	42	800	750
AG361	1100/AS			182	92	25	49	57	133	41	15	35	41	M10	18	16	8,5	8	50	1600	1060
AG371	2100/AS			238	118,5	35	61	70	177	50	35	50	50	M12	22	20	8,5	10	60	2500	2280
AG381	3100/AS			316	137	40	100	76	216	54	40	70	70	M14	25	22	11	10	100	4500	3350





PUSH AND PULL STRAIGHT-LINE ACTION SERIES

The sizes of this series are also produced in stainless steel and are shown below in red.

Material: Galvanized steel or AISI 304 stainless steel

Riveted pivots, push bar, bushing fixing screws and sliding bearing and ring:

Galvanized steel or AISI 304 stainless

steel

Sliding bushes: Galvanized steel or

AISI 303 steel

Mounting bracket (to be ordered separately): Galvanized steel or AISI 304 stainless steel

Handles: Red polyurethane resistant to oils, grease and other chemical

agents.

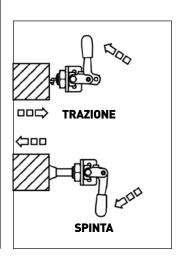
Spindles: To be ordered separately (see Accessories on page 87)

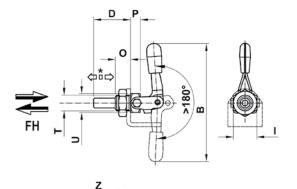
Features and applications:

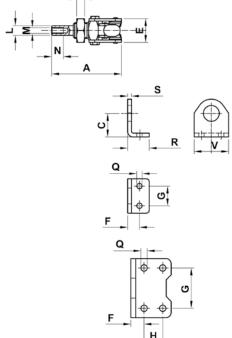
Thanks to the front thread, the tools of this series can be mounted directly on the equipment used and the control lever can be turned to the most favourable position for use.

The mounting bracket (order separately) increases the possibility of use.









Code	Description	Stainless steel Code	Description	A	В	D	E	1	L	М	N	0	P	Ţ	U	Z	*	Fh (daN)	gr. ∆∆
AG401	80/AS	AS401	80/ASX	71	120	38	24	24	10	M6	12	15,5	10	M16X1,5	19	8	21	300	135
AG406	165/AS	AS406	165/ASX	113	194	59	28	30	12	M8	15	20	16	M20X1,5	22	9	38	540	335
AG411	340/AS	AS411	340/ASX	173	256	90	38	36	16	M10	18	22	28	M24X2	30	10	66	700	835

Code	Description	Stainless steel Code	Description	С	F	G	Н	Q	R	S	V	Supporto per modello
AG416	30080	AS416	30080X	24	8	20	-	5,5	22	4	35	80/AS - 80/ASX
AG421	30165	AS421	30165X	32	13,5	41	19	6,5	41	5	60	165/AS - 165/ASX
AG426	30340	AS426	30340X	48	19	55	25	8,5	59	5	75	340/AS - 340/ASX













The circular movement of the control lever is transformed into linear movement of the rod. This series is mostly used to fasten hinged lids and for containers. Available with forces from 160 to 1000 daN, and in the heavy-duty series from 1700 to 4000 daN. The push bars can be adjusted within the stroke (height D). The main features of the different models are:

FOR T - TF - TL - TFL - T2 MODELS: • Support base parallel to the force line of action. • In the closed position, the control lever is parallel to the support base.

FOR T3 MODELS: • Support base perpendicular to the force line of action. • In the closed position, the control lever is parallel to the support base.

FOR T4 MODELS: • Support base perpendicular to the force line of action. • In the closed position, the control lever is perpendicular to the support base.

FOR T5 - T6 MODELS: • If the tool is used on machines or in applications with strong stress or vibrations, (in which an accidental and undesired opening is likely), it is necessary to ensure a secure grip by means of a latch.

FOR E MODELS: • The ET and EG models allow safe clamping in mainly static uses, while the ETL and EGL models can operate even in the presence of strong vibrations thanks to the safety lever against accidental opening.





T – TF ROD SERIES (LIGHT PERFORMANCE)

Material:

Zinc coated plates

Riveted pivots and rod:

Galvanized steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

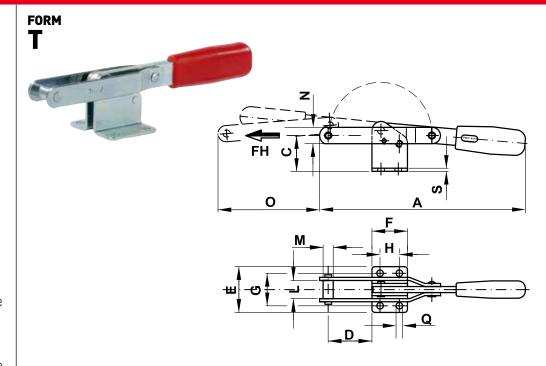
Form T is supplied with a pivot for traction;

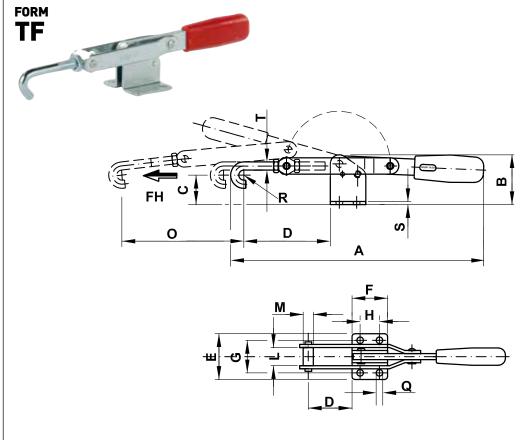
Form TF is supplied with a coupling hook for traction

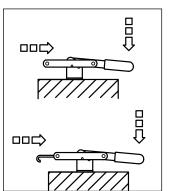
Features and applications:

The tools of this series ensure a perfect closing of lids.

The position of the threaded rod can be adjusted within a certain range (see dimension "D") to meet the requirements of use.

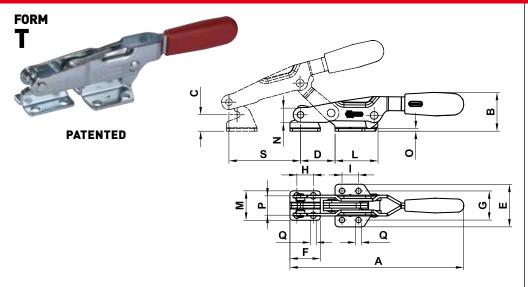






Code	Description	A	В	С	D	E	F	G	Н	L	М	N	0	Q	R	S	T	Fh (daN)	gr. ∆∆
AL200	200/T	203	49	36	43	45	35	32	19	18	10	16	100	6,5		3		200	300
AL205	200/TF	251	49	29	85÷105	45	35	32	19	18		16	100	6,5	5	3	M8	200	380
AL300	300/T	225	49	36	43	60	48	45	32	21	10	18	100	8,5		3		300	460
AL305	300/TF	277	49	25	90÷115	60	48	45	32	21		18	100	8,5	6	3	M10	300	560
AL400	400/T	275	60,5	43	45,5	84	54	60,5	28,5	26	14	25	160	10,5		5		400	1000
AL405	400/TF	339	60,5	30	107÷129	84	54	60,5	28,5	26		25	160	10,5	7	5	M12	400	1200





PATENTED PATENTED

T – TF ROD SERIES (LIGHT PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized sheet metal or AISI 304

stainless steel

Riveted pivots and rod:

Galvanized steel or **AISI 304 stainless**

stee

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

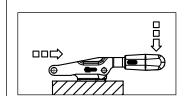
Form T and **form TX** is supplied with a pivot for traction and a hooking bracket;

Form TF and **form TFX** it is possible to choose from three different optional rods (to be ordered separately):
Eye bolt rod "TG", T-shaped rod "TT",
Hook Rod "U" (See page 49).

Features and applications:

The tools of this series ensure a perfect closing of lids.

The position of the threaded rod can be adjusted within a certain range (see drawing) to meet the requirements of use.



Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	P	Q	S	Fh (daN)	gr. ∆∆
AL410	33/T	AS430	33/TX	200	45	19	40	49	35	33,5	19	19	50	34	17	3	22,3	6,5	83	500	422
AL415	33/TF	AS432	33/TFX	197	45	19	40	49		33,5		19	50		17	3		6,5	83	500	394
AL420	43/T	AS436	43/TX	248	56	28	51	63	50	45	31	32	61	41	20	4	25,4	8,5	110	1000	811
AL425	43/TF	AS438	43/TFX	242	56	28	51	63		45		32	61		20	4		8,5	90	1000	696



TL – TFL ROD SERIES WITH SAFETY LEVER (LIGHT PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized sheet metal or AISI 304 stainless steel

Riveted pivots and rod:

Galvanized steel or **AISI 304 stainless**

steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

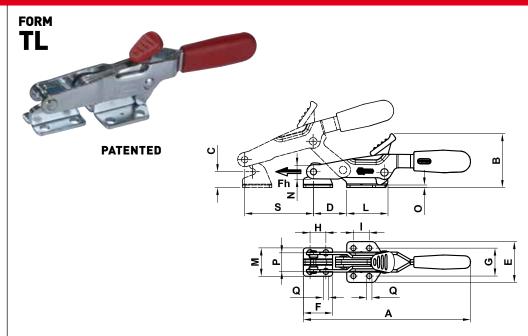
Form TL and **form TLX** is supplied with a pivot for traction and a hooking bracket:

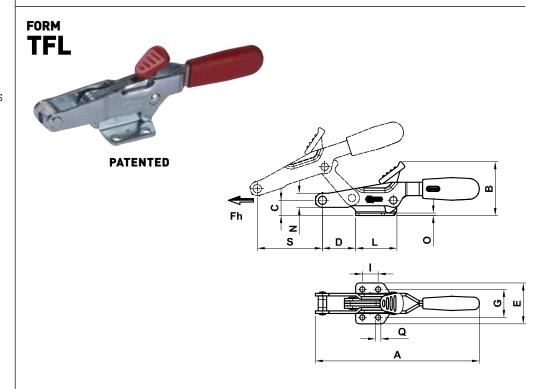
Form TFL and **form TFLX** it is possible to choose from three different optional rods (to be ordered separately):
Eye bolt rod "TG", T-shaped rod "TT",
Hook Rod "U" (see Page 47).

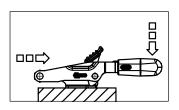
Features and applications:

The tools of this series ensure a perfect closing of lids.

The position of the threaded rod can be adjusted within a certain range (see drawing) to meet the requirements of use.





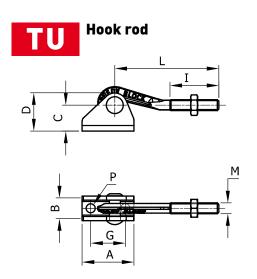


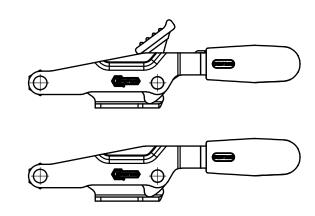
Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	P	Q	S	Fh (daN)	gr. ∆∆
AL430	33/TL	AS440	33/TLX	200	65	19	40	49	35	33,5	19	19	50	34	17	3	22,3	6,5	83	500	441
AL435	33/TFL	AS442	33/TFLX	197	65	19	40	49		33,5		19	50		17	3		6,5	83	500	413
AL440	43/TL	AS444	43/TLX	248	74	28	51	63	50	45	31	32	61	41	20	4	25,4	8,5	90	1000	834
AL445	43/TFL	AS446	43/TFLX	242	74	28	51	63		45		32	61		20	4		8,5	90	1000	719

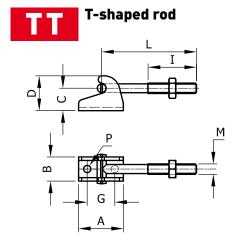
LATCH SERIES ACCESSORIES

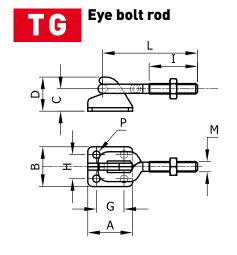












Code	Description	Stainless steel Code	Description	A	В	С	D	G	Н	1	L	М	P
AU544	33/TG	AU556	33/TGX	35	34	19	30	19	22,3	34	76,5	M8	6,7
AU546	43/TG	AU558	43/TGX	50	41	28	40,5	31	25,4	42	95,5	M10	8,5
Code	Description	Stainless steel Code	Description	A	В	С	D	G	1	L	М	Р	
AU548	33/TU	AU560	33/TUX	38	18	19	28	25,4	34	76,5	M8	6,7	
AU550	43/TU	AU562	43/TUX	50	26	28	39	31	43	93	M10	8,5	
Code	Description	Stainless steel Code	Description	A	В	С	D	G	1	L	М	Р	
AU552	33/TT	AU564	33/TTX	35	18	19	30	19	34	76,5	M8	6,7	
AU554	43/TT	AU566	43/TTX	50	26	28	40,5	31	43	93	M10	8,5	



DOUBLE ROD SERIES (LIGHT PERFORMANCE).

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or

AISI 304 stainless steel

Riveted pivots and rod:

Galvanized steel or **AISI 304 stainless** steel

Swinging pivot:

Galvanized steel or **AISI 303 stainless** steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

The tool comes with a double bar with hooking bracket and nuts. In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

Therefore, when ordering, indicate:

T2 or T2X = Tool with Standard Double Threaded Rod and hooking bracket

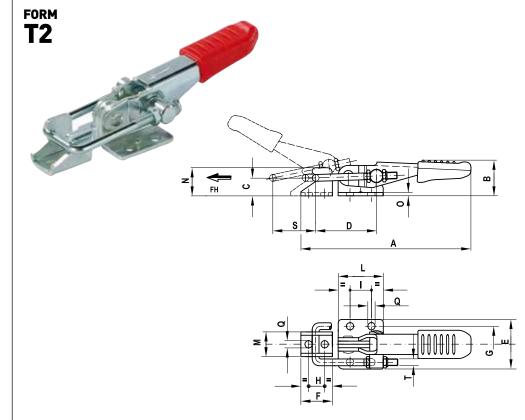
T20 or T20X = Tool without double Threaded rod, which is to be ordered

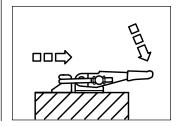
separately (see page 57) Features and applications:

The tools of this series ensure a perfect closing of lids.

The support base is perpendicular to the force line of action.

In the closed position, the control lever is parallel to the support base.









Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Q	S	T	Fh (daN)	gr. ∆∆
AL500	160/T2	AS500	160/T2X	98	25	12	35÷44	28	20	19	10	16	26	14	18	2	4,3	25	M4	160	85
AL505	320/T2	AS505	320/T2X	152	30	16	54÷63	44	28	32	14,3	19	40	22	25	3	6,5	48	M6	320	250
AL510	700/T2	AS510	700/T2X	220	42	24	70÷90	54	38	38	19	41,5	60	26	36	3,5	8,5	58	M8	750	600



HEAVY-DUTY LATCH SERIES

FORM T2

DOUBLE AND WELDABLE DOUBLE ROD SERIES (HEAVY PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Hot-stamped, weldable, black varnished steel or hot-stamped AISI 304 stainless steel

Pivot:

Hardened, ground and knurled steel to prevent rotation.

Bar, swinging pivot and nuts:

Galvanized steel or AISI 303 stainless

steel

Performance:

Form T2 Hot-stamped black varnished steel or hot-stamped AISI 304

stainless steel

Form T2S Hot-stamped and phosphated stainless steel or hot-stamped AISI

304 stainless steel

The tool comes with a double bar with hooking bracket and nuts.

In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

Therefore, when ordering, indicate:

T2-T2S or T2X-T2SX -= Tool with Standard Double Threaded Rod and hooking bracket

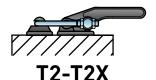
T20-T2S0 or T20X-T2S0X -= Tool without double Threaded rod, which is to be ordered separately (see page 57)

Features and applications:

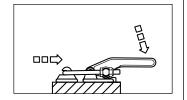
The tools of this series ensure a good closure of lids. The construction features and the materials chosen give these tools high resistance qualities. The support base is perpendicular to the force line of action. In the closed position, the control lever

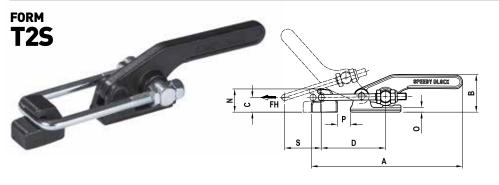
is parallel to the support base. A special grease is placed between two

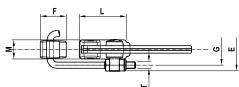
contacting surfaces during assembly.





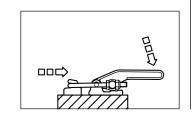












Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	N	0	P	Q	s	T	Fh (daN)	FhX (daN)	gr. ∆∆
AL518	1700/T2	AS518	1700/T2X	226	55	21	94-106	64	48	45	28	45	68	34	7	14	8,5	54-58	M10	1700	1400	1085
AL522	4000/T2	AS522	4000/T2X	282	68	27	112-124	80	60	57	35	57	85	42	9	14	10,5	62-65	M12	4000	3000	2070

Code	Description	Stainless steel Code	Description	A	В	C	D	E	F	G	L	М	N	0	P	S	T	Fh (daN)	FhX (daN)	gr. ∆∆
AL520	1700/T2S	AS520	1700/T2SX	221	55	21	94-106	64	38	46	68	26,5	34,5	7	19	54-58	M10	1700	1400	1085
AL524	4000/T2S	AS524	4000/T2SX	277	68	27	102-124	80	50	55	85	32	43	9	19	62-65	M12	4000	3000	2070



DOUBLE ROD WITH SAFETY LEVER SERIES (LIGHT PERFORMANCE)

The sizes of this series are also produced in **Stainless Steel 316** and are shown below in red.

Material:

Galvanized steel or AISI 316 stainless steel

Rivets and rods:

Galvanized steel or **AISI 316 stainless** steel

Swinging pivot:

Galvanized steel or AISI 316 stainless steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

The tool comes with a double bar with hooking bracket and nuts.

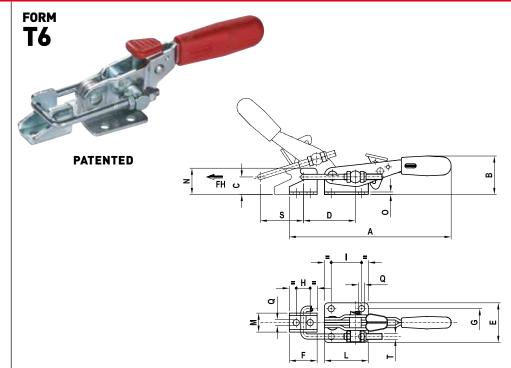
In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

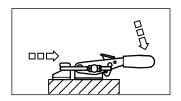
T6 or T16 = Tool with Standard Double Threaded Rod and hooking bracket

T60 or T160X = Tool without double Threaded rod, which is to be ordered separately (see page 57)

Features and applications:

The main feature of this series is the special safety lever with the purpose of preventing any accidental openings caused by vibrations. The tools of this series ensure a perfect closing of lids. The support base is perpendicular to the force line of action. In the closed position, the control lever is parallel to the support base. A special grease is placed between two contacting surfaces during assembly.





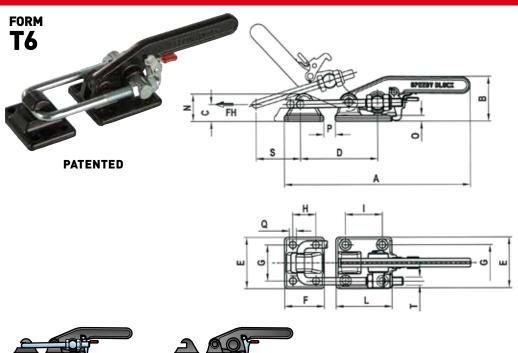




Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	M	N	0	Q	s	T	Fh (daN)	gr. ∆∆	gr. ∆∆inox
AL780	160/T6	AS600	160/T16	101	31	12	35÷44	28	20	19	10	16	26	14	18	2	4,3	18÷24	M4	160	92	95
AL785	320/T6	AS605	320/T16	169	45	16	54÷63	44	28	32	14,3	19	40	22	25	3	6,5	26÷34	M6	320	307	331
AL790	700/T6	AS610	700/T16	221	56	24	70÷90	54	38	38	19	41,5	60	26	36	3,5	8,5	40÷50	M8	750	627	644

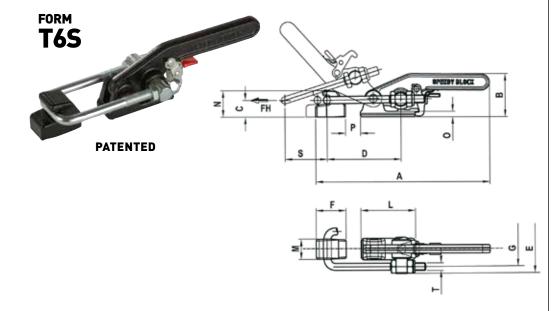


HEAVY-DUTY LATCH SERIES



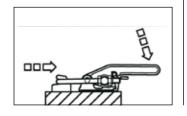












DOUBLE AND WELDABLE DOUBLE ROD WITH SAFETY LEVER SERIES (HEAVY PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Hot stamped, weldable, black varnished steel or hot stamped **AISI 304** stainless steel.

Pivot:

Hardened, ground and knurled steel to prevent rotation.

Bar, swinging pivot and nuts:

Galvanized steel or AISI 303 stainless

Performance:

Form T6 hot stamped, black varnished steel or hot stamped **AISI 304** stainless steel.

Form T6S hot stamped, and phosphated steel or hot stamped **AISI 304** stainless steel.

The tool comes with a double bar with hooking bracket and nuts.

In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

Therefore, when ordering, indicate:

T6-T6S or T6X-T6SX = Tool with Standard Double Threaded Rod and hooking bracket

T60-T6S0 or T60X-T6S0X = Tool without double Threaded rod, which is to be ordered separately (see page 57).

Features and applications:

The tools of this series ensure a perfect closing of lids.

The construction features and materials chosen make these tools highly resistant.

The support base is perpendicular to the force line of action.

In the closed position, the control lever is parallel to the support base.

Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	L	N	0	P	Q	S	Ţ	Fh (daN)	FhX (daN)	gr. ∆∆
AL795	1700/T6	AS615	1700/T6X	226	55	21	94÷106	64	48	45	28	45	68	34	7	14	8,5	54÷58	M10	1700	1400	1110
AL800	4000/T6	AS620	4000/T6X	282	68	27	112÷124	80	60	57	35	57	85	42	9	14	10,5	62÷65	M12	4000	3000	2100

Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	L	М	N	0	P	S	Ţ	Fh (daN)	FhX (daN)	gr. ∆∆
AL805	1700/T6S	AS625	1700/T6SX	221	55	21	94÷106	64	38	46	68	26,5	34,5	7	19	54÷58	M10	1700	1400	1110
AL810	4000/T6S	AS630	4000/T6SX	277	68	27	112÷124	80	50	55	85	32	43	9	19	62÷65	M12	4000	3000	2100



DOUBLE ROD SERIES (LIGHT PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Galvanized steel or **AISI 304 stainless** steel

Riveted pivots and rod: Galvanized steel or AISI 304 stainless steel

Swinging pivot:

Galvanized steel or **AISI 303 stainless** steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

the tool comes with a double bar with hooking bracket and nuts.

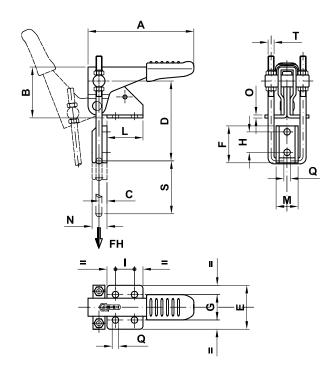
In addition to the standard length of the U rods, a variety of other lengths are given on page 57. Therefore, when ordering, indicate: **T3 or T3X** = Tool with Standard Double Threaded Rod and hooking bracket

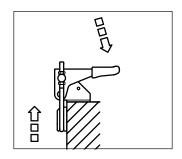
T30 or T30X = Tool without double Threaded rod, which is to be ordered separately (see page 57)

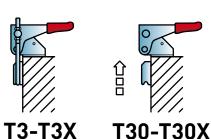
Features and applications:

The tools of this series ensure a perfect closing of lids. The support base is perpendicular to the force line of action. In the closed position, the control lever is parallel to the support base. A special grease is placed between two contacting surfaces during assembly.





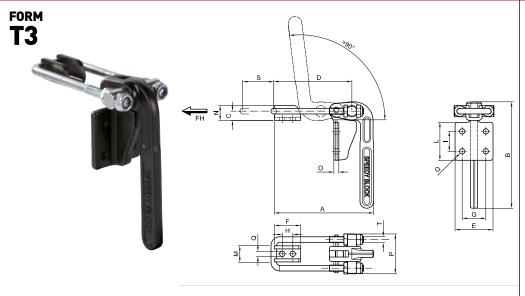


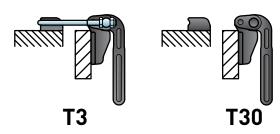


Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	-1	L	М	N	0	Q	S	T	Fh (daN)	gr. ∆∆
AL530	160/T3	AS530	160/T3X	68	37	5	49,5÷58	35	25,5	22	14,3	13	26	14	10	2	4,3	22÷29	M4	160	100
AL535	320/T3	AS535	320/T3X	106	53	8	75÷95	44	37	25,5	20,5	19	36	22	15	3	6,5	39÷49	M6	320	320
AL540	700/T3	AS540	700/T3X	147	66	13	98÷122	54	48,5	36,5	27	32	52	26	23	3,5	8,5	50÷62	M8	750	680

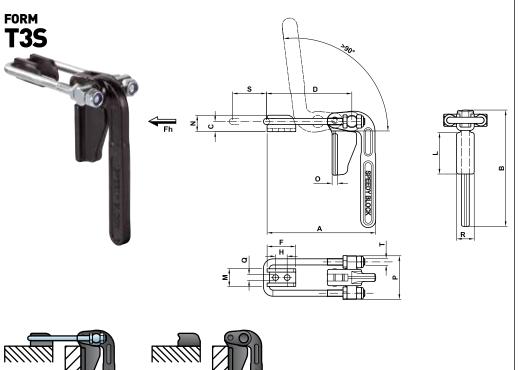


HEAVY-DUTY LATCH SERIES





T3S



T3S0

DOUBLE AND WELDABLE DOUBLE ROD SERIES (HEAVY PERFORMANCE)

Material:

Hot-stamped, weldable, black varnished steel.

Pivot: Hardened, ground and knurled steel to prevent rotation.

Bar, swinging pivot and nuts:

Galvanized steel.

Performance:

Form T3 Hot-stamped, black varnished steel.

Form T3S Hot-stamped and phosphated steel

The tool comes with a double bar with hooking bracket and nuts.

In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

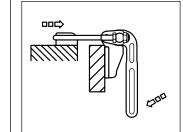
Therefore, when ordering, indicate:

T3-T3S = Tool with Standard Double Threaded Rod and hooking bracket

T30-T3S0 = Tool without double Threaded rod, which is to be ordered separately (see page 57)

Features and applications:

The tools of this series ensure a perfect closing of lids. The construction features and materials chosen make these tools highly resistant. The support base is perpendicular to the force line of action. In the closed position, the control lever is parallel to the support base.



Code	Description	A	В	С	D	E	F	G	Н	- 1	L	М	N	0	P	Q	s	T	Fh (daN)	gr. ∆∆
AL550	1400/T3	159,5	171	15	104,5÷125,5	61	42	38	17	32	61	26	24	8	64	8,5	50	M10	1200	1235
Code	Description	Α	В	С	D	F	Н		L	М	N	0	P	Q	R	s		T	Fh (daN)	gr. ∆∆
AL552	1400/T3S	159,5	171	15	104,5÷125,5	42	17	(61	26	24	8	64	8,5	26	5()	110	1200	1115



DOUBLE ROD SERIES (LIGHT PERFORMANCE)

Material:

Galvanized steel

Riveted pivots and rod:

Galvanized steel

Swinging pivot:

Galvanized steel

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

The tool comes with a double bar with hooking bracket and nuts.

In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

Therefore, when ordering, indicate:

T4 = Tool with Standard Double

Threaded Rod and hooking bracket

T40 = Tool without double Threaded rod, **which is to be ordered**

separately (see page 57) Features and applications:

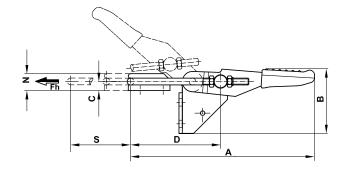
The tools of this series ensure a perfect closing of lids.

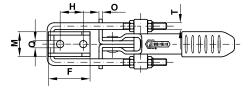
The support base is perpendicular to the force line of action.

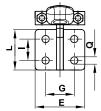
In the closed position, the control lever is perpendicular to the support base. A special grease is placed between two contacting surfaces during assembly.

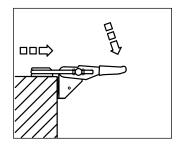
FORM **T4**

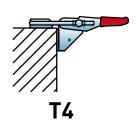


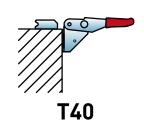










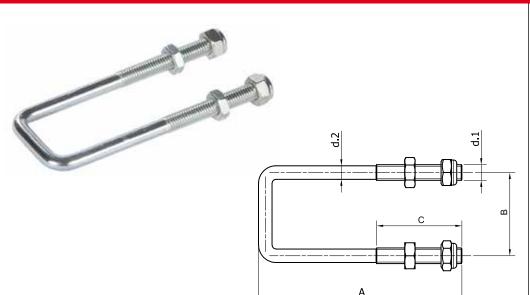


Co	ode	Description	A	В	C	D	E	F	G	Н	1.0	L	М	N	0	Q	S	T	Fh (daN)	gr. ∆∆
Α	L560	160/T4	104	40	5	49÷58	35	25,5	22	14,3	13	26	14	10	2	4,3	23,5÷27,5	M4	160	95
A	L565	320/T4	160	57,5	8	75÷95	44	37	25,5	20,5	19	36	22	15	3	6,5	40÷46	M6	320	295
Α	L570	700/T4	233	82	13	98÷122	54	48,5	36,5	27	32	52	26	23	3,5	8,5	50÷58	M8	750	655





LATCH SERIES ACCESSORIES



U-SHAPED ACCESSORY FOR LATCH SERIES

Material:

Galvanized steel or AISI 304 stainless steel or AISI 316 stainless steel

Performance:

The rod comes complete with 4 nuts.

Code	Description	Stainless steel 304 Code	Description	Stainless steel 316 Code	Description	A	В	C	D.1	D.2
AX556	160/T2-T6	AX570	160/T2X	AX604	160/T16	56,4	21	27,5	M4	3,4
AX557	160/T3-T4	AX574	160/T3X			70,4	21	28,5	M4	3,4
AX556-103	160/T20-T30-T40-T60	AX570-103	160/T20X-T30X	AX604-103	160/T160	103,4	21	30	M4	3,4
AX556-153	160/T20-T30-T40-T60	AX570-153	160/T20X-T30X	AX604-153	160/T160	153,4	21	35	M4	3,4
AX556-203	160/T20-T30-T40-T60	AX570-203	160/T20X-T30X	AX604-203	160/T160	203,4	21	35	M4	3,4
AX558	320/T2-T6	AX572	320/T2X	AX606	320/T16	78,2	32	44	M6	5,2
AX559	320/T3-T4	AX576	320/T3X			110,2	32	44	M6	5,2
AX558-130	320/T20-T30-T40-T60	AX572-130	320/T20X-T30X	AX606-130	320/T160	130,2	32	45	M6	5,2
AX558-155	320/T20-T30-T40-T60	AX572-155	320/T20X-T30X	AX606-155	320/T160	155,2	32	45	M6	5,2
AX558-205	320/T20-T30-T40-T60	AX572-205	320/T20X-T30X	AX606-205	320/T160	205,2	32	45	M6	5,2
AX560	700/T2-T6	AX573	700/T2X	AX608	700/T16	111,2	38	52	M8	7,2
AX563	700/T3-T4	AX577	700/T3X			143,2	38	56	M8	7,2
AX560-127	700/T20-T30-T40-T60	AX573-127	700/T20X-T30X	AX608-127	700/T160	127,2	38	60	M8	7,2
AX560-157	700/T20-T30-T40-T60	AX573-157	700/T20X-T30X	AX608-157	700/T160	157,2	38	60	M8	7,2
AX560-207	700/T20-T30-T40-T60	AX573-207	700/T20X-T30X	AX608-207	700/T160	207,2	38	60	M8	7,2

Code	Description	Stainless steel 304 Code	Description	A	В	С	D.1	D.2
AX561	1700/T2-T2S-T6-T6S	AX578	1700/T2X-T2SX-T6-T6SX	129	46	45	M10	9
AX564	1400/T3-T3S			149	46	55	M10	9
AX561-179	1400/T30-T3S0 1700/T20-T2S0-T60-T6S0	AX578-179	1700/T20X-T2S0X-T60X-T6S0X	179	46	45	M10	9
AX561-209	1400/T30-T3S0 1700/T20-T2S0-T60-T6S0	AX578-209	1700/T20X-T2S0X-T60X-T6S0X	209	46	45	M10	9
AX561-259	1400/T30-T3S0 1700/T20-T2S0-T60-T6S0	AX578-259	1700/T20X-T2S0X-T60X-T6S0X	259	46	45	M10	9
AX565	1500-1510/T2S			179	52	70	M10	8,9
AX562	4000/T2-T2S-T6-T6S	AX580	4000/T2X	150,8	55	70	M12	10,8
AX562-211	4000/T20-T2S0-T60-T6S0	AX580-211	4000/T20X-T2S0X-T60X-T6S0X	210,8	55	70	M12	10,8
AX562-361	4000/T20-T2S0-T60-T6S0	AX580-361	4000/T20X-T2S0X-T60X-T6S0X	360,8	55	70	M12	10,8
AX562-421	4000/T20-T2S0-T60-T6S0	AX580-421	4000/T20X-T2S0X-T60X-T6S0X	420,8	55	70	M12	10,8

HEAVY-DUTY LATCH SERIES



T5 ROD SERIES WITH SAFETY LEVER (LIGHT PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

Material:

Parts made of phosphated sheet metal and riveted pivots made of galvanized steel or **AISI 304 stainless steel**. Turned parts made of galvanized steel or

AISI 303 stainless steel.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

Rod:

Phosphated steel or **AISI 304 stainless steel** to be ordered separately.

Features and applications:

The tool can be opened with only one hand, disengage the working surface (the clamping lever opens by itself) and close it again for the next operation; you can choose from three different optional tie rods (to be ordered separately):

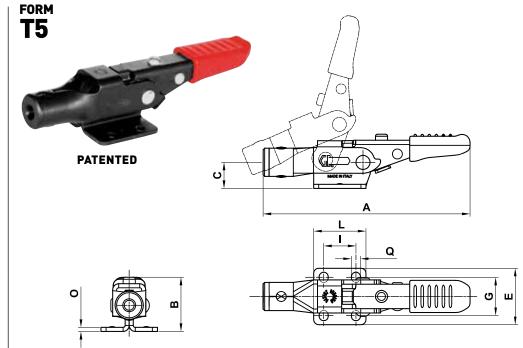
Eye bolt rod "TG", T-shaped rod "TT",

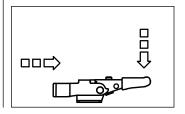
Hook Rod "TU".

The construction features and materials chosen make these tools highly resistant.

The support base is perpendicular to the force line of action.

In the closed position, the control lever is parallel to the support base.

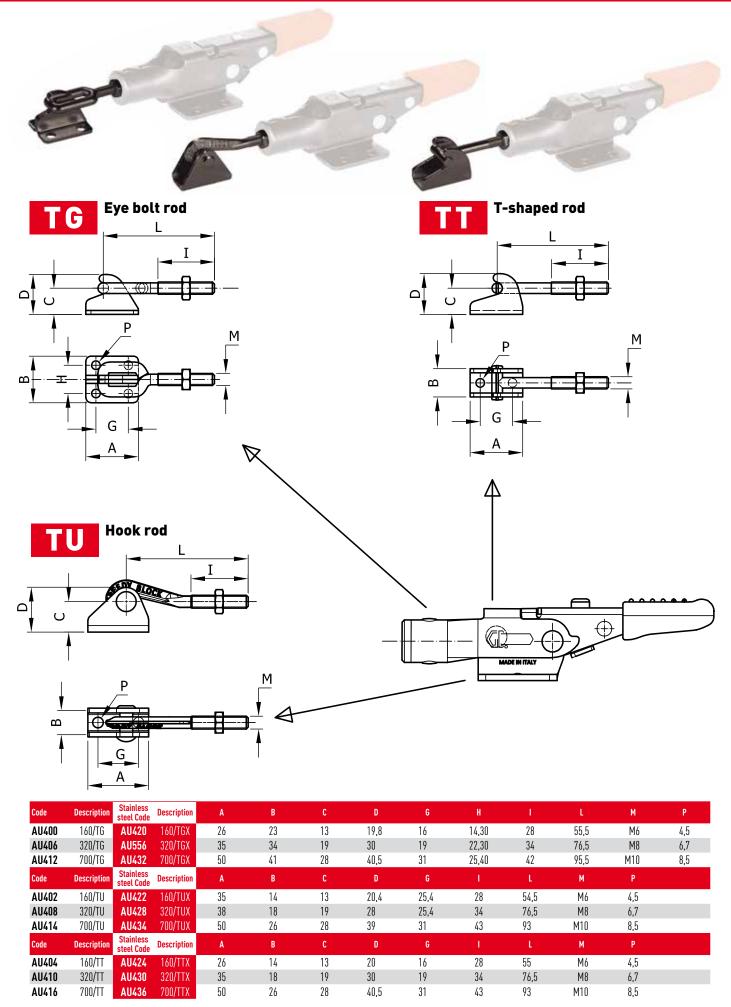




Code	Description	Stainless steel Code	Description	A	В	С	E	G	1	L	0	Q	Fh (daN)	gr. △△
AL575	160/T5	AS545	160/T5X	103	26,8	13	28	19	16	26	2	4,5	175	100
AL580	320/T5	AS550	320/T5X	153	38,5	19	44	32	19	40	3	6,7	400	295
A1 585	700/T5	45555	7NN/T5Y	222	53	28	5/4	38.1	41.5	60	3.5	8.5	750	600







HEAVY-DUTY LATCH SERIES



T5 ROD SERIES WITH SAFETY LEVER (HEAVY PERFORMANCE)

Material:

Parts made of sheet metal and phosphated riveted pivots
Turned parts made of phosphated steel **Handles:**

Red polyurethane resistant to oils, grease and other chemical agents.

Performance:

The tool comes with an eye bolt bar and hooking bracket.

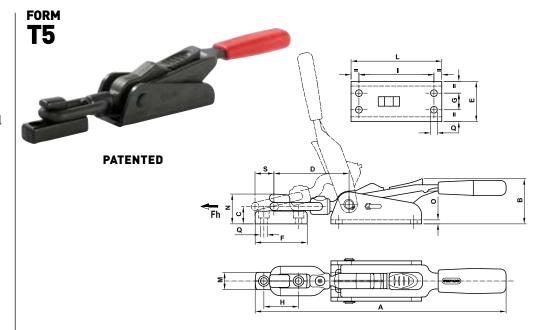
Features and applications:

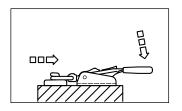
The tool can be opened with only one hand, disengage the working surface (the clamping lever opens by itself) and close it again for the next operation.

The construction features and materials chosen make these tools highly resistant.

The support base is perpendicular to the force line of action.

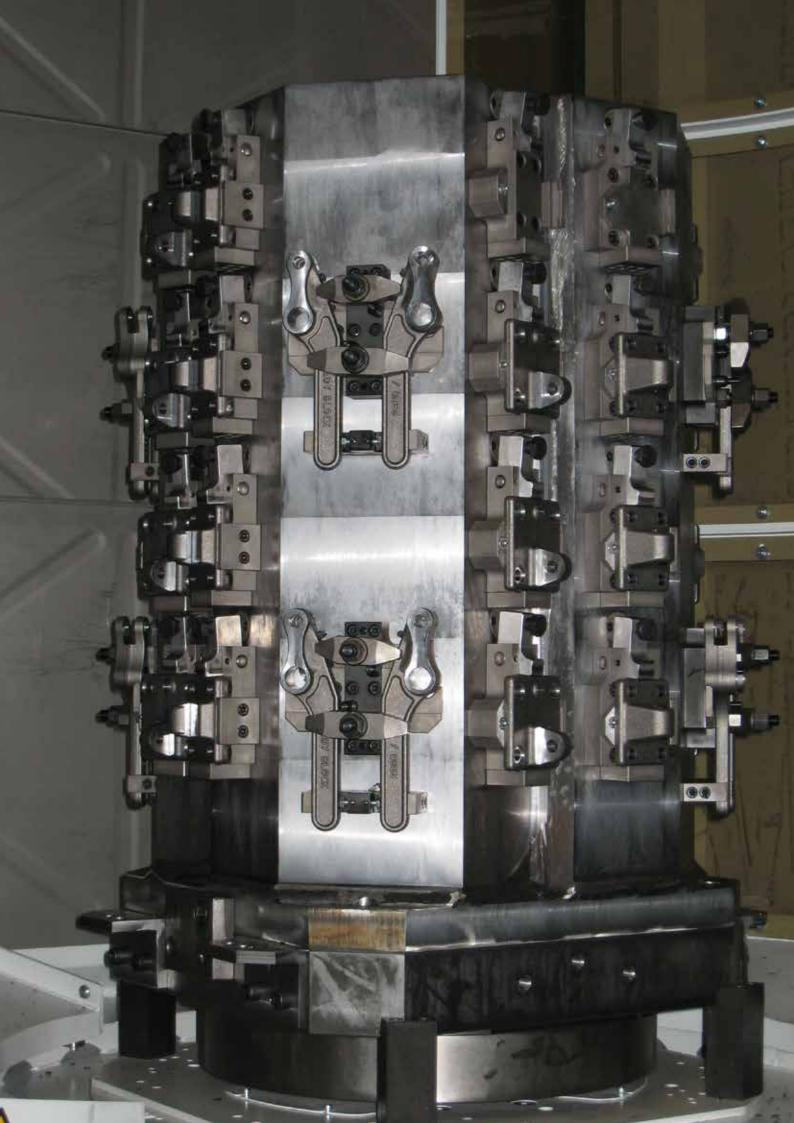
In the closed position, the control lever is parallel to the support base.





Code	Description	A	В	C	D	E	F	G	Н	1	L	М	N	0	Q	S	Fh (daN)	gr. ДД	
AI 590	1400/T5	318	57	22	95-105	51	66	21	44	95	115	22	38	5	8.5	25	1500	1600	







ET-EG ROD SERIES (LIGHT PERFORMANCE)

Material:

Galvanized steel or **AISI 304 stainless**

Steel

Swivel Pivot:

Galvanized steel or **AISI 303 stainless Steel**

Riveted Pivots and rod:

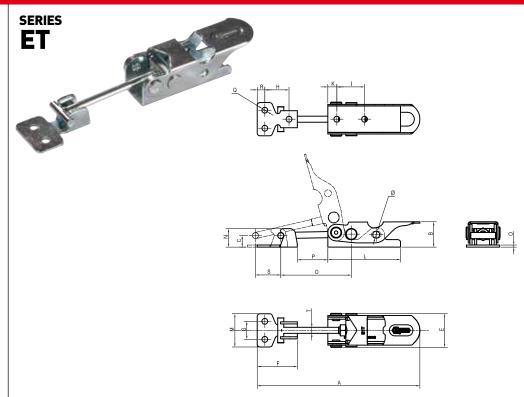
Galvanized steel or **AISI 304 stainless**

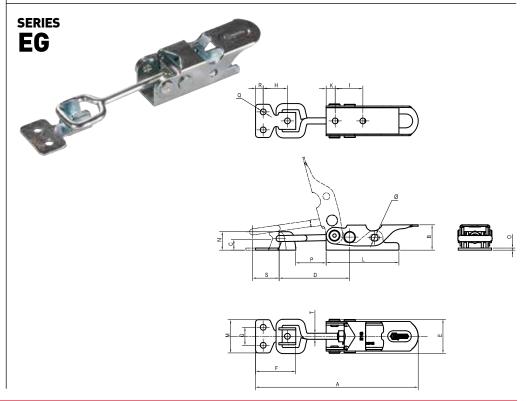
Steel

Performance:

Form ET is supplied with a T-shaped rod and a hooking bracket.

Form EG is supplied with a eye-bolt rod and a hooking bracket.

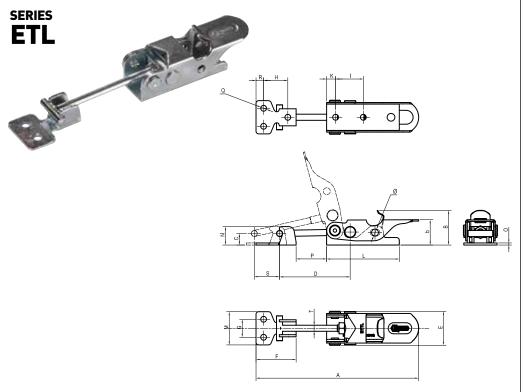


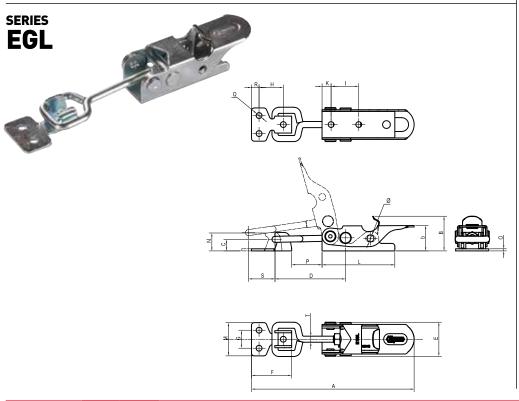


Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	K	L	М	N	0	P	Q	R	s	Ţ	Diam.	Fh (daN)	gr. ∆∆
AE1020	E1T	ES1020	E1TX	117,5	18	8,3	51÷58	25	29	13	17,5	20	6,5	52,5	24	13,3	1,5	22÷29	4,2	5,5	11	M5	5	100	61
AE2020	E2T	ES2020	E2TX	155,5	25	10	64÷75	31	42	15	24	24,5	8	65	32	16,4	2	28÷39	5,2	10	13	M6	6	200	135
AE3020	E3T	ES3020	E3TX	189,5	32	12,7	79,5÷92	36	52	20	29,5	30	11	81,5	38	20,7	2,5	33÷45,5	6,5	12,5	16	M8	8	300	256

Code	Description	Stainless steel Code	Description	A	В	С	D	E	F	G	Н	1	K	L	М	N	0	Р	Q	R	s	Ţ	Diam.	Fh (daN)	gr. ∆∆
AE1010	E1G	ES1010	E1GX	117,5	18	8,3	51÷58	25	29	13	17,5	20	6,5	52,5	24	13,3	1,5	22÷29	4,2	5,5	12	M5	5	100	63
AE2010	E2G	ES2010	E2GX	155,5	25	10	64÷75	31	42	15	24	24,5	8	65	32	16,4	2	28÷39	5,2	10	14	M6	6	200	142
AE3010	E3G	ES3010	E3GX	189,5	32	12,7	79,5÷92	36	52	20	29,5	30	11	81,5	38	20,7	2,5	33÷45,5	6,5	12,5	18	M8	8	300	270







ETL-EGL ROD SERIES (LIGHT PERFORMANCE)

The sizes of this series are also produced in stainless steel and are shown below in red.

The main feature of this series is the special safety lever with the purpose of preventing any accidental openings caused by vibrations.

Material:

Galvanized steel or AISI 304 stainless Steel

Swivel Pivot:

Galvanized steel or AISI 303 stainless Steel

Riveted Pivots and rod:

Galvanized steel or AISI 304 stainless Steel

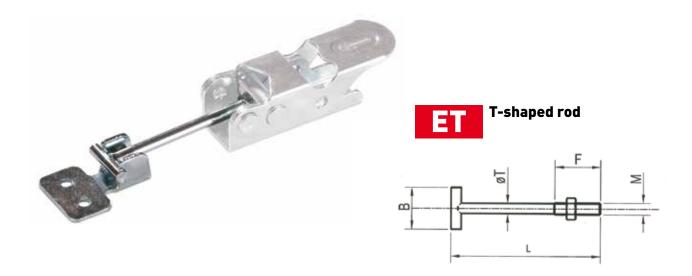
Performance:

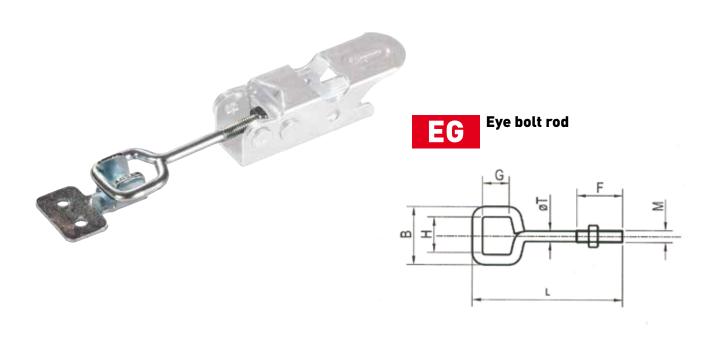
Form ETL is supplied with a T-shaped rod and a hooking bracket. Form EGL is supplied with a eye-bolt rod and a hooking bracket

Code	Description	Stainless steel Code	Description	A	b	В	С	D	E	F	G	Н	1	K	L	М	N	0	P	Q	R	s	T	Diam.	Fh (daN)	gr. ∆∆
AE1120	E1TL	ES1120	E1TLX	117,5	18	25	8,3	51÷58	25	29	13	17,5	20	6,5	52,5	24	13,3	1,5	22÷29	4,2	5,5	11	M5	5	100	62
AE2120	E2TL	ES2120	E2TLX	155,5	25	33	10	64÷75	31	42	15	24	24,5	8	65	32	16,4	2	28÷39	5,2	10	13	M6	6	200	136
AE3120	E3TL	ES3120	E3TLX	189,5	32	41,5	12,7	79,5÷92	36	52	20	29,5	30	11	81,5	38	20,7	2,5	33÷45,5	6,5	12,5	16	M8	8	300	258

Code	Description	Stainless steel Code	Description	A	b	В	С	D	E	F	G	Н	ı	K	L	М	N	0	Р	Q	R	S	T	Diam.	Fh (daN)	gr. ∆∆
AE1110	E1GL	ES1110	E1GLX	117,5	18	25	8,3	51-58	25	29	13	17,5	20	6,5	52,5	24	13,3	1,5	22-29	4,2	5,5	12	M5	5	100	65
AE2110	E2GL	ES2110	E2GLX	155,5	25	33	10	64-75	31	42	15	24	24,5	8	65	32	16,4	2	28-39	5,2	10	14	M6	6	200	143
AE3110	E3GL	ES3110	E3GLX	189,5	32	41,5	12,7	79,5-92	36	52	20	29,5	30	11	81,5	38	20,7	2,5	33-45,5	6,5	12,5	18	M8	8	300	273







Code	Description	Stainless steel Code	Description	В	F	G	Н	L	М	Ţ
AX642	E1T-E1TL	AX648	E1TX-E1TLX	18	20			64	M5	4,4
AX644	E2T-E2TL	AX650	E2TX-E2TLX	24	25			84	M6	5,2
AX646	E3T-E3TL	AX652	E3TX-E3TLX	30	30			102	M8	7
AAU4U										
ANU4U										
Code	Description	Stainless steel Code	Description	В	F	G	н	L	М	Ţ
			Description E1GX-E1GLX	в 25	F 20	G 12	н 16	L 64	м М5	T 4,4
Code	Description	steel Code						L 64 83		











ROTATION SERIES

The rotational moulding of plastics requires clamping devices able to work in a quick and safe way at very high temperatures (240-300°C.) without any hesitation when opening and clamping. So, we have achieved a full series of clamps suitable to this type of work. This series is in part a spin off from the Speedy Block's mass production with the contribution of suitable alterations (couplings with different tolerances, modified geometries, different finishings, etc.), and it has been optimized following the suggestions and expectations of the users which urged their design.



VERTICAL ROTATIONAL SERIES



VERTICAL SERIES FOR HIGH TEMPERATURES

Material:

Phosphated steel

Riveted pivots:

Phosphated steel

Supporting bushes:

Hardened and ground steel.

Performance:

With eye bolt clamping lever for inserting the spindle.

Spindles:

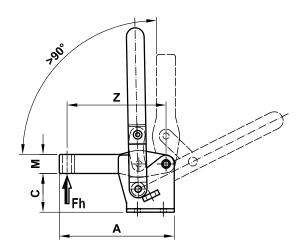
To be ordered separately (see Accessories on page 87)

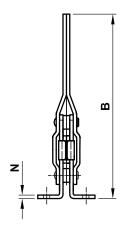
Features and applications:

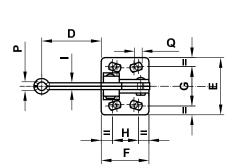
The tools of this series are generally used in rotational forging, as it is able to operate at high temperatures (240-300°C).

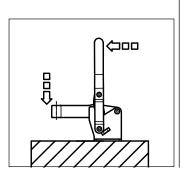
This is made possible thanks to their finish, the interposition of special copper grease between the parts and appropriate tolerances between the couplings.







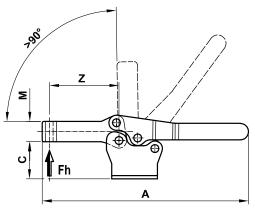


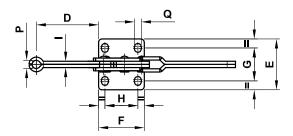


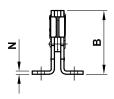
Code	Description	A	В	С	D	E	F	G	Н	1	М	N	P	0	Z	Fh (daN)	gr. ∆∆
AR530	130/ER	85	136	28	44	42	35	27÷29	12,5÷19	5	16	2,5	6,5	5,6	73	160	210
AR540	230/ER	110	164	33,5	60	45	43	32	19÷20	6	18	3	8	6,7	96	200	330
AR550	330/ER	128	189	43	69	65	50	45÷46	29÷32	7	22	3.5	10.5	8.5	111	240	519

HORIZONTAL ROTATIONAL SERIES

FORM OR







HORIZONTAL SERIES FOR HIGH TEMPERATURES

Material:

Phosphated steel

Riveted pivots:

Phosphated steel

Supporting bushes:

Hardened and ground steel.

Performance:

With eye bolt clamping lever for inserting the spindle.

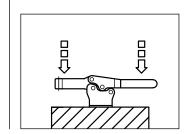
Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

The tools of this series are generally used in rotational forging, as it is able to operate at high temperatures (240-300°C).

This is made possible thanks to their finish, the interposition of special copper grease between the parts and appropriate tolerances between the couplings.



Code	Description	A	В	С	D	E	F	G	Н	1	М	N	P	Q	Z	Fh (daN)	gr. ∆∆
AR145	130/OR	165	51	30,5	50	40	36	22,4÷28,4	26	5	16	2,5	6,5	5,6	56	100	185
AR280	230/OR	190	61,5	36,5	56	44	44	26÷31,5	26	6	18	3	8,5	6,6	63	170	300
AR380	355/OR	260,5	83	50	89,5	58	60	38.8÷43	41	7	22	3,5	10,5	8,6	98.5	180	700

ROTATIONAL ROD SERIES



DOUBLE ROD SERIES FOR HIGH TEMPERATURES

Material:

Base and lever in hot pressed rough steel

Rod:

Rough steel

Hooking bracket:

Rough steel.

Performance:

The tool comes with a bar with hooking bracket and nuts.

Features and applications:

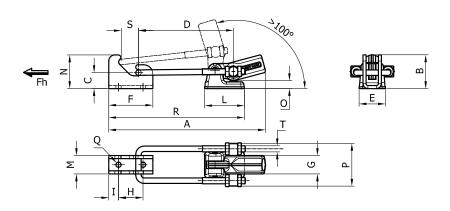
The tools of this series are generally used in rotational forging, as it is able to operate at high temperatures (240-300°C).

This is made possible thanks to their finish, the interposition of special copper grease between the parts and appropriate tolerances between the couplings.

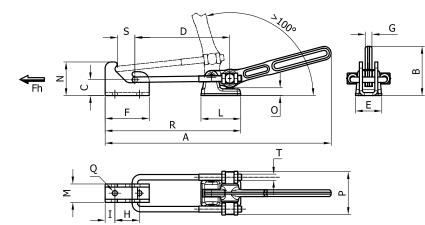
In addition to the standard length of the U rods, a variety of other lengths are given on page 57.

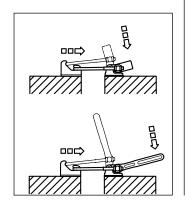
Therefore, when ordering, indicate: T2S = Tool with Standard Double Threaded Rod and hooking bracket T2SO = Tool without double Threaded rod, which is to be ordered separately (see page 57)







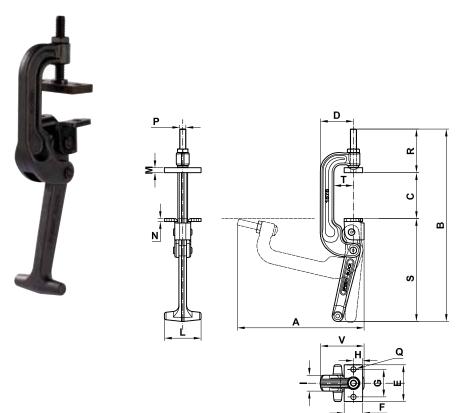




Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	Р	Q	R	S	T	Fh (daN)	gr. ∆∆
AL750	1500/T2S	256	55	26	155	43	72	30	40	16	65	30	55	13	70	8,5	222	28	M10	1500	1240
AL755	1510/T2S	369	80,5	26	155	43	72	11	40	16	65	30	55	13	70	8,5	222	28	M10	1500	1320

ROTATIONAL C SERIES

FORM C



C SERIES FOR HIGH TEMPERATURES

Material:

The sheet metal parts are made from steel;

The other parts are made of hotstamped weldable steel.

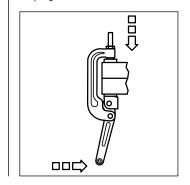
Performance:

The tool comes complete with adjusting screw and bearing plate.

Features and applications:

The tools of this series are generally used in rotational forging, as it is able to operate at high temperatures (240-300°C).

This is made possible thanks to their finish, the interposition of special copper grease between the parts and appropriate tolerances between the couplings.



Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	P	Q	R	S	T	V	Fh (daN)	gr. ∆∆
AL758	1540	173	280	40	54	60	30	45	15	26	60	8	5	M10	8,5	71	169	32	72	1500	1110
AL760	1575	207	315	75	54	60	30	45	15	26	60	8	5	M10	8,5	71	169	32	72	1500	1190









This series combines the advantages of toggle action (even in case of pressure loss the tool remains closed) with the possibilities offered by the pneumatics:

- Constant FS clamping force independent of the operation.
- Possibility of actuating several devices at the same time.
- Possibility of actuating various points; remote control performed also by machines.
- Several versions are available with magnetic cylinders that enable positioning control without contacts, to obtain electric command impulses in certain clamping situations.

The pneumatic series also contains vertical and push rod series with Fs clamping forces between 50 and 240 daN and Fh retaining forces from 70 to 450 daN for the light series; and Fs from 87 daN to 430 daN with Fh from 220 to 2000 daN for the heavy-duty series. The use of a filter - reducer - lubricator group is essential for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulators and calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed. The cylinders of the heavy-duty series (1000-2000/EPM/EPVM) already mount these flow regulators on the heads and they can be adjusted using a screw on the side of the air supply. For all the other cylinders, a fixed pin is present in the back head to slow down the stroke during the opening phase. Operating pressure between 2-6 bar. Ambient temperature -30° + 80°C. The Fs forces indicated in the catalogue were measured at a pressure of 4 bar.

PERFORMANCE

LIGHT SERIES: Components in case-hardening sheet steel. Hardened and tempered supporting pivots. Supporting bushes (for sizes from 200 daN and over) undergo case-hardening and grinding.

HEAVY-DUTY SERIES: Base made of black varnished spheroidal cast iron. Other parts made of galvanized (weldable) steel. Supporting pivots undergo case hardening.

REINFORCED HEAVY-DUTY SERIES: Base body made of black phosphated steel sheet; cemented and ground support pins and bushes.

Double-acting cylinder with adjustable shock absorption. The tools of this series are built so as to be easily disassembled: the pivots are fixed axially with seeger rings.



LIGHT PNEUMATIC SERIES

Some sizes of this series are also produced for Magnetic performance and are shown in the table below ("magnetic version")

Material: Sheet metal and galvanized steel riveted pivots. Hardened and ground steel rotation pivots.

Performance:

Form AP3 with open clamping lever and two flanged washers.

Form EP3 with full clamping lever and bolt retainers.

Form APM just like AP3 but with magnetic cylinder for the detection of the position.

Form EPM just like EP3 but with magnetic cylinder for the detection of the position.

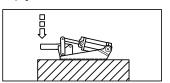
Cylinder:

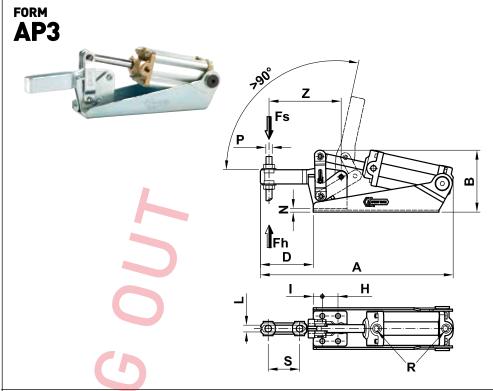
Maximum operating pressure 6 bar.
Maximum operating temperature 80°C
The AU460 model reed switch is used
for detecting the position, for sizes 200
and 300; model AU450 is used for size
400 (see Accessories on page 87).
The proximity switches must be ordered
separately.

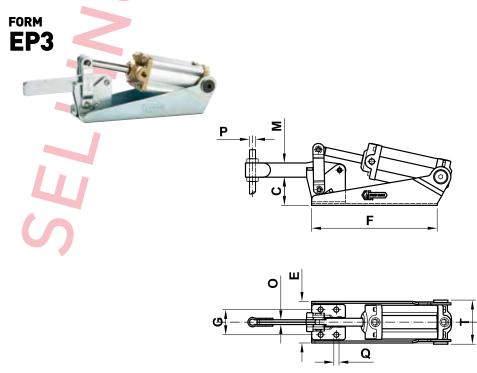
Spindles: To be ordered separately (see Accessories on page 87).

Features and applications:

We recommend using a filter-reducerlubricator group for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulators and calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed. A special grease is placed between two contacting surfaces during assembly. This manually actuated series is found on page 10.

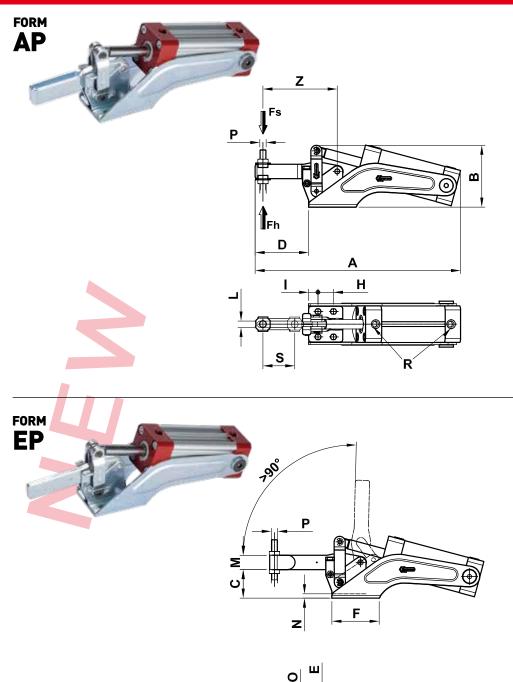






Code	Description	Magnetic Version Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	P	Q	R	s	ī	Z	Fh (daN)	Fs (daN)	gr. ∆∆
A0020	70/AP3			163	51,5	21	38	42	92	24	15	6,5÷7	5,2	11	4		M5	4,5	1/8"	20	45	56	70	50	500
A0025	70/EP3			163	51,5	21	39	42	92	24	15	6,5÷7		11	4	4	M5	4,5	1/8"		45		70	50	500
A0041	125/AP3			200	70,5	30	50	47,5	150	29	19	8÷11,2	6,2	14	4,5		M6	5,5	1/8''	23	46	71	160	70	700
A0046	125/EP3			201	70,5	30	51	47,5	150	29	19	8÷11,2		14	4,5	5	M6	5,5	1/8"		46		160	70	700
A0161	200/AP3	A0162	200/APM	246	79	36	67,5	53	160	32	20	11,5÷12	8,5	18	5,5		M8	6,5	1/8"	40	56	94	220	90	1070
A0166	200/EP3	A0167	200/EPM	248	79	36	69,5	53	160	32	20	11,5÷12		18	5,5	6	M8	6,5	1/8"		56		220	90	1070
A0201	300/AP3	A0202	300/APM	304,5	98	48	78,5	74	195,5	46	29	8,5÷10,5	10,5	20	8,5		M10	8,5	1/4"	42	66	110	270	120	2100
A0206	300/EP3	A0207	300/EPM	306	98	48	80	74	195,5	46	29	8,5÷10,5		20	8,5	8	M10	8,5	1/4"		66		270	120	2100
A0301	400/AP3	A0302	400/APM	360	107,5	51	110	74	216	45	32	10	12,5	22	10		M12	8,5	1/4"	66	80	143	300	140	3100
A0306	400/EP3	A0307	400/EPM	362	107,5	51	112	74	216	45	32	10		22	10	10	M12	8,5	1/4"		80		300	140	3100





LIGHT PNEUMATIC SERIES

This series has been completely redesigned, giving the items a greater operating life.

Material:

Sheet metal and galvanized steel riveted pivots.

Hardened and groung steel rotation pivots, running into sockets with similar feature.

Pneumatic cylinder:

All the cylinders of this series are magnetic, with a pneumatic brake inside the back head.

Maximum operating pressure 6 bar.

Maximum operating temperature 70°C.

The electronic switch for detecting the position is AU570 (see the presentation at page 87) and must be ordered separately.

Spindle:

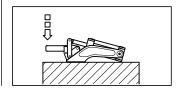
To be ordered separately (see accessories on page 87).

Feature and applications:

A filter-reducer-lubricator group is recommanded for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulations and calibrating the speed of the motion desired.

You can find the instructions for the set-up and daily use of the items of this series on the technical sheets reported on our website.

The values of the clamping force Fs on the chart are measured at 6 bar pressure air. This pneumatically operated series can be found on p. 10.



Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	0	P	Q	R	s	Ţ	Z	Fh (daN)	Fs (daN)	gr. ∆∆
A0400	75/AP	162	54	22	38	40	40	24	14,5÷16,5	6,5÷7	5,2	11	3,5		M5	4,5	M5	20	47	56	75	38	400
A0402	75/EP	163	54	22	39	40	40	24	14,5÷16,5	6,5÷7		11	3,5	4	M5	4,5	M5		47		75	38	400
A0408	130/AP	195	66	30	50	47,5	45	27÷29	12,5÷19	8÷11,2	6,2	16	4,5		M6	5,6	1/8"	28	51	71	105	80	650
A0410	130/EP	196	66	30	51	47,5	45	27÷29	12,5÷19	8÷11,2		16	4,5	5	M6	5,6	1/8"		51		105	80	650
A0416	230/AP	259	78	36	67	51	55	32	18,5÷20,5	11,5÷12	8,5	18	5,5		M8	6,7	1/8"	40	58	94	200	118	1150
A0418	230/EP	261	78	36	69	51	55	32	18,5÷20,5	11,5÷12		18	5,5	6	M8	6,7	1/8"		58		200	118	1130
A0428	330/AP	307	96	46	78	74	55	45÷46	29÷32	8,5÷10,5	10,5	22	6,5		M10	8,6	1/4"	45	70	110	240	173	1850
A0430	330/EP	309	96	46	80	74	55	45÷46	29÷32	8,5÷10,5		22	6,5	7	M10	8,6	1/4"		70		240	173	1900
A0440	430/AP	363	114	55	88	73	70	45	32	14	12,5	26	7,5		M12	8,5	1/4"	48	82,5	124	400	325	3300
A0442	430/EP	364	114	55	90	73	70	45	32	14		26	7,5	10	M12	8,5	1/4"		82,5		400	325	3300

Q



LIGHT PNEUMATIC SERIES

The sizes of this series are also produced for Magnetic performance and are shown in the table (see "magnetic version").

Material: Sheet metal and galvanized steel riveted pivots.

Hardened and ground steel rotation pivots.

Performance:

Form APV3 with open clamping lever and two flanged washers.

Form EPV3 with full clamping lever and bolt retainers.

Form APVM just like APV3 but with magnetic cylinder for the detection of the position.

Form EPVM just like EPV3 but with magnetic cylinder for the detection of the position.

Cylinder: Maximum operating pressure 6 bar.

Maximum operating temperature 80°C Model AU460 is the reed switch for detecting the position (see Accessories on page 87).

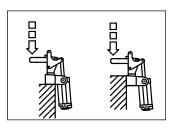
The proximity switches must be ordered separately.

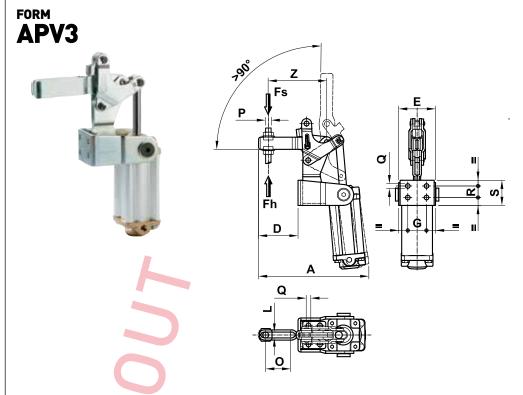
Spindles:

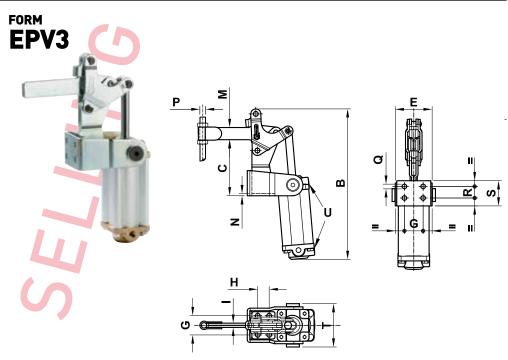
To be ordered separately (see Accessories on page 87).

Features and applications:

We recommend using a filter-reducerlubricator group for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulators and calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed. A special grease is placed between two contacting surfaces during assembly. This manually actuated series is found on page 15.

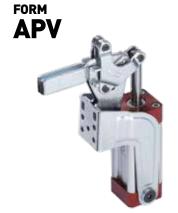


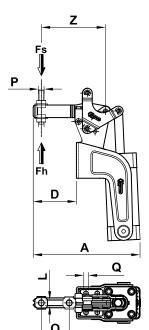


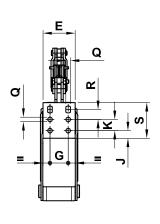


Code	Description	Magnetic Version Code	Description	A	В	С	D	E	G	Н	1	L	М	N	0	P	Q	R	S	Т	U	Z	Fh (daN)	Fs (daN)	gr. △△
A0181	200/APV3	A0182	200/APVM	149	210	77	55	51	26	16		8,5	17	3	34	M8	6,5	16	35	59,5	1/8"	88	160	90	1200
A0186	200/EPV3	A0187	200/EPVM	151	210	77	57	51	26	16	6		17	3		M8	6,5	16	35	59,5	1/8"		160	90	1200
A0221	300/APV3	A0222	300/APVM	186	258	108	71	60,5	30	28		10	20	3	42	M10	8,5	30	50	68,5	1/4"	110	240	120	2450
A0226	300/EPV3	A0227	300/EPVM	187.5	258	108	72.5	60.5	30	28	8		20	3		M10	8.5	30	50	68.5	1/4"		240	120	2450





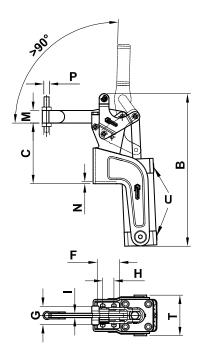






FORM





LIGHT PNEUMATIC SERIES

This series has been completely redesigned, giving the items a greater operating life.

Material:

Sheet metal and galvanized steel riveted pivots.

Hardened and groung steel rotation pivots, running into sockets with similar feature.

Pneumatic cylinder:

All the cylinders of this series are magnetic, with a pneumatic brake inside the back head.

Maximum operating pressure 6 bar. Maximum operating temperature 70°C. The electronic switch for detecting the position is AU570 (see the presentation at page 87) and must be ordered separately.

Spindle:

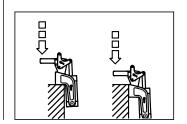
To be ordered separately (see accessories on page 87)

Feature and applications:

A filter-reducer-lubricator group is recommanded for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulations and calibrating the speed of the motion desired.

You can find the instructions for the set-up and daily use of the items of this series on the technical sheets reported on our website.

The values of the clamping force Fs on the chart are measured at 6 bar pressure air. This pneumatically operated series can be found on p. 10.



Code	Description	A	В	С	D	E	F	G	Н		J	K	L	М	N	0	Р	Q	R	s	T	U	Z	Fh (daN)	Fs (daN)	gr. ∆∆
A0404	75/APV	99	151	43	34	40	22	24	12,5		10	12,5	5,2	11	2	21	M5	4,5		30	47	M5	56,5	75	57	500
A0406	75/EPV	99	151	43	35	40	22	24	12,5	4	10	12,5		11	2		M5	4,5		30	47	M5		75	57	500
A0412	130/APV	118	167	70	41	47	28	27	12,5		16	12,5	6,2	16	2,5	28,5	M6	5,6	12,5	49	51	1/8"	72	110	61	750
A0414	130/EPV	119	167	70	42	47	28	27	12,5	5	16	12,5		16	2,5		M6	5,6	12,5	49	51	1/8"		110	61	750
A0420	230/APV	153	218	87	62	46	32	26	16		11	16	8,5	18	3	41	M8	6,5	14,25	51	58	1/8"	94,5	220	126	1250
A0422	230/EPV	155	218	87	63	46	32	26	16	6	11	16		18	3		M8	6,5	14,25	51	58	1/8"		220	126	1255
A0432	330/APV	182	263	108	68	56	45	30	28		19	30	10,5	22	3,5	45	M10	8,5	20	79	70	1/4"	110	260	181	2200
A0434	330/EPV	184	263	108	70	56	45	30	28	7	19	30		22	3,5		M10	8,5	20	79	70	1/4"		260	181	2200



LIGHT PNEUMATIC SERIES

The sizes of this series are also produced for Magnetic performance and are shown in the table (see "magnetic version")

Material:

Sheet metal and galvanized steel riveted pivots.

Hardened and ground steel rotation pivots.

Performance:

Form APV3S with open clamping lever and two flanged washers.

Form EPV3S with full clamping lever and bolt retainers.

Form APVMS just like APV3S but with magnetic cylinder for the detection of the position.

Form EPVMS just like EPV3S but with magnetic cylinder for the detection of the position.

Cvlinder:

Maximum operating pressure 6 bar. Maximum operating temperature 80°C Model AU460 is the reed switch for detecting the position (see Accessories on page 87).

The proximity switches must be ordered separately.

Handles:

Red polyurethane resistant to oils, grease and other chemical agents.

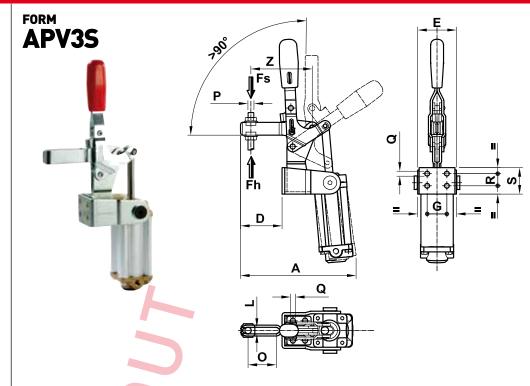
Spindles:

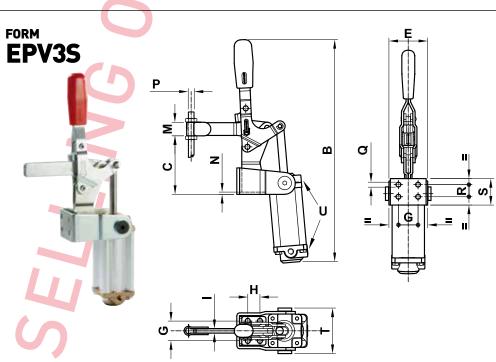
To be ordered separately (see Accessories on page 87).

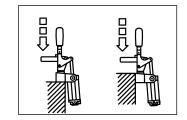
Features and applications:

The tools of this series are used when there is a need for pneumatic closing (generally simultaneous closing of the tools remotely) but manual and single opening is mandatory. We recommend using a filter-reducer-lubricator group for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulators and calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed.

A special grease is placed between two contacting surfaces during assembly. This manually actuated series is found on page 16.

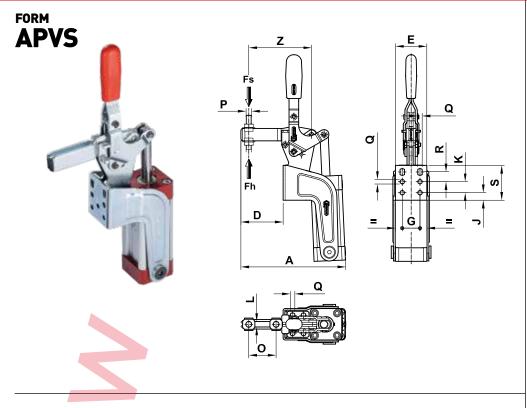




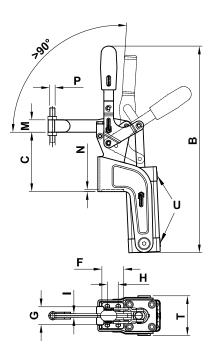


Code	Description	Magnetic Version Code	Description	A	В	С	D	E	G	Н	ı	L	M	N	0	P	Q	R	S	Ţ	U	Z	Fh (daN)	Fs (daN)	gr. ∆∆
A0184	200/APV3S	A0185	200/APVMS	149	296	77	55	51	26	16		8,5	17	3	34	M8	6,5	16	35	59,5	1/8"	88	160	90	1200
A0189	200/EPV3S	A0190	200/EPVMS	151	296	77	57	51	26	16	6		17	3		M8	6,5	16	35	59,5	1/8"		160	90	1200
A0224	300/APV3S	A0225	300/APVMS	186	360	108	71	60,5	30	28		10	20	3	42	M10	8,5	30	50	68,5	1/4"	110	240	120	2450
A0229	300/EPV3S	A0230	300/EPVMS	187.5	360	108	72.5	60.5	30	28	8		20	3		M10	8.5	30	50	68.5	1/4"		240	120	2450









LIGHT PNEUMATIC SERIES

This series has been completely redesigned, giving the items a greater operating life.

Material:

Sheet metal and galvanized steel riveted pivots. Hardened and groung steel rotation pivots, running into sockets with similar feature.

Pneumatic cylinder:

All the cylinders of this series are magnetic, with a pneumatic brake inside the back head.

Maximum operating pressure 6 bar. Maximum operating temperature 70°C. The electronic switch for detecting the position is AU570 (see the presentation at page 87) and must be ordered separately.

Handle:

Red polyurethan resistant to oils, grease and other chemical agents.

Spindle:

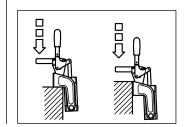
To be ordered separately (see accessories on page 87)

Feature and applications:

A filter-reducer-lubricator group is recommanded for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulations and calibrating the speed of the motion desired.

You can find the instructions for the set-up and daily use of the items of this series on the technical sheets reported on our website.

The values of the clamping force Fs on the chart are measured at 6 bar pressure air. This pneumatically operated series can be found on p. 16/17.



Code	Description	A	В	С	D	E	F	G	н	1	J	K	T.	М	N	0	P	Q	R	S	T	U	Z	Fh (daN)	Fs (daN)	gr. ∆∆
A0424	230/APVS	153	302	87	62	46	32	26	16		11	16	8,5	18	3	41	M8	6,5	14,25	51	58	1/8"	94,5	220	126	1350
A0426	230/EPVS	155	302	87	63	46	32	26	16	6	11	16		18	3		M8	6,5	14,25	51	58	1/8"		220	126	1400
A0436	330/APVS	182	363	108	68	56	45	30	28		19	30	10,5	22	3,5	45	M10	8,5	20	79	70	1/4"	110	260	181	2300
A0438	330/EPVS	184	363	108	70	56	45	30	28	7	19	30		22	3,5		M10	8,5	20	79	70	1/4"		260	181	2300



HEAVY-DUTY PNEUMATIC SERIES

Material:

Base made of black varnished spheroidal cast iron; Lever in galvanized steel; Hardened and ground pivots.

Cylinder:

ISO Magnetic Standards.

Maximum operating pressure 10 bar.

Maximum operating temperature 80°C

Model AU470 is the reed switch for
detecting the position to be ordered
separately.

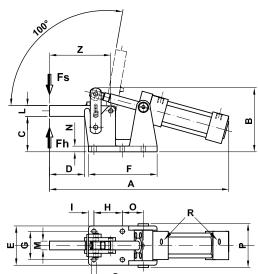
Features and applications:

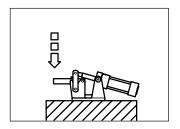
These tools are designed to withstand high loads and a high number of operations.

We recommend using a filter-reducerlubricator group for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using the flow regulators found on the head for calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed. A special grease is placed between two contacting surfaces during assembly.

FORM **EPM**



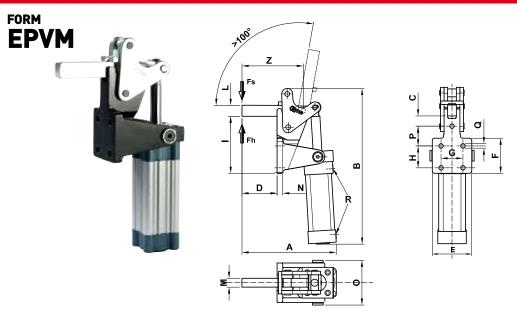


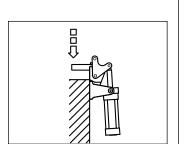


C	Code	Description	A	В	C	D	E	F	G	Н	1	L	М	N	0	P	Q	R	Z	Fh (daN)	Fs (daN)	yı. ∆∆
I	A0600	1000/EPM	410	146,5	80	80	90	155	65	65	12,5	25	20	13	48	102	10,5	1/4"	140	1000	320	6500
F	A0620	2000/EPM	487	171,5	90	100	100	176	70	70	15	35	20	13	56	112	10,5	3/8"	172	2000	380	9500









HEAVY-DUTY PNEUMATIC SERIES

Material:

Base made of black/varnished spheroidal cast iron. Lever in galvanized steel; Hardened and ground pivots.

Cylinder:

ISO Magnetic Standards Maximum operating pressure 10 bar. Maximum operating temperature 80°C Model AU470 is the reed switch for detecting the position to be ordered separately.

Features and applications:

These tools are designed to withstand high loads and a high number of operations.

We recommend using a filter-reducerlubricator group for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using the flow regulators found on the head for calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed. A special grease is placed between two contacting surfaces during assembly.

Code	Description	A	В	С	D	E	F	G	Н	- 1	L	М	N	0	P	Q	R	Z	Fh (daN)	Fs (daN)	gr. ∆∆
A0605	1000/EPVM	215	355		80	90	80	50	50	130	25	20	13	102		10,5	1/4"	140	1000	340	6500
A0625	2000/EPVM	246,5	424	45	100	100	90	54	58	157	35	20	14	112	45	12.5	3/8"	172	2000	432	9000



REINFORCED PNEUMATIC SERIES



REINFORCED HEAVY-DUTY PNEUMATIC SERIES

Material:

Phosphated Steel.

Pivots:

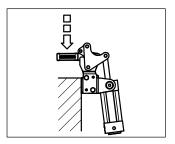
Hardened and ground Steel. **Supporting bushes:**Hardened and ground Steel.

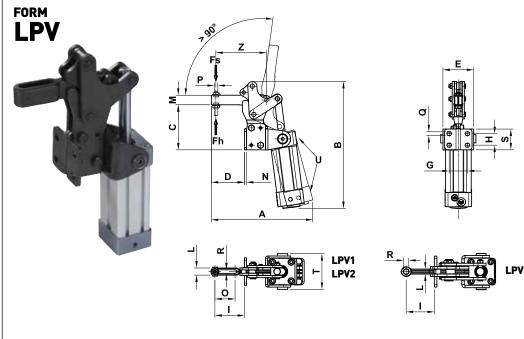
Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

the clamping levers are obtained by hot moulding; the series is generally used in clamping jobs with medium and heavy loads, on welding masks, carpentry works, moulds and where large clamping forces and strong repetitiveness of movements are required.





Code	Description	A	В	С	D	E	G	Н		L	М	N	0	P	Q	R	S	T	U	Z	Fh (daN)	Fs (daN)	gr. △△
A0384	LPV1	172	172	215	77	57	30÷34	20	51	12,3	16,6	3,5	35	M6	6,3	6,3	36	63	1/8"	89	240	118	1150
A0386	LPV2	195	195	288	106	71	42,5÷46,5	30	60	20	24	5	35	M10	10,3	10,3	54	75	1/4"	113,5	440	217	2750
A0388	LPV3	239	239	372	140	80	52÷56	55	68	12	31	6		M12	10,5	12,5	75	89	1/4"		850	317	5300







PUSH HEAVY-DUTY PNEUMATIC SERIES

Some sizes of this series are also produced for Magnetic performance and are shown in the table below (see "magnetic version").

Material:

Galvanized steel

Riveted pivots, push bar and control lever:

Galvanized steel

Basic clamp body:

Black varnished brass for size 70; hot forged steel and painted black for the other sizes.

Performance:

Form SP3 Tool equipped with normal pneumatic cylinder.

Form SPM Tool equipped with magnetic pneumatic cylinder.

Cylinder:

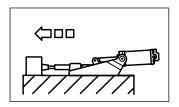
Maximum operating pressure 6 bar.
Maximum operating temperature 80°C.
The AU460 model reed switch is used for detecting the position, for sizes 360 and 1100; model AU450 is used for size 2100 (see Accessories on page 87).
The proximity switches must be ordered separately.

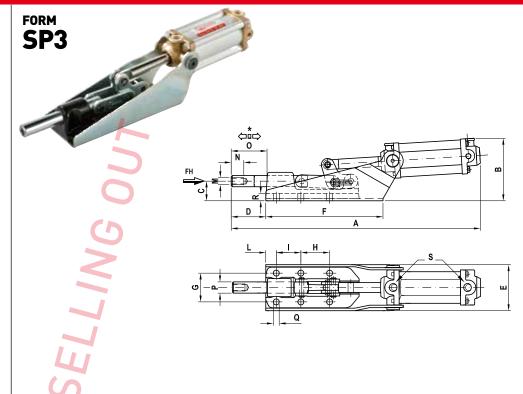
Spindles:

To be ordered separately (see Accessories on page 87).

Features and applications:

We recommend using a filter-reducerlubricator group for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulators and calibrating the speed of the motions desired, starting from a low speed and gradually increasing this speed. A special grease is placed between two contacting surfaces during assembly. This manually actuated series is found on page 41.

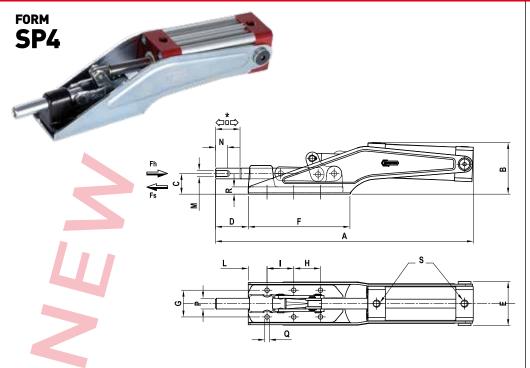






Code	Description	Magnetic Version Code	Description	A	В	С	D	E	F	G	Н	1	ι	М	N	0	Р	Q	R	S	*	Fh (daN)	Fs (daN)	gr. △△
A0350	70/SP3			171	51	14	20	42	64	26	26		13	M6	12	22	8,5	4,3	8	1/8"	12	120	50	550
A0361	360/SP3	A0362	360/SPM	260	72,5	27,5	32	55	116	33,5	36,5		30	M8	15	34	12	5,5	9,5	1/8"	22	560	310	1300
A0371	1100/SP3	A0372	1100/SPM	355	89	28	49	66	167	41	41	35	15	M10	18	50	16	8,5	12	1/4"	32	1600	410	2400
A0381	2100/SP3	A0382	2100/SPM	468,5	100	38,5	61,5	81	231	50	50	50	35	M12	22	63,5	20	8,5	13	1/4"	45	2500	607	5000







LIGHT PNEUMATIC SERIES

This series has been completely redesigned, giving the items a greater operating life.

Material:

Sheet metal and galvanized steel riveted pivots.

Hardened and groung steel rotation pivots, running into sockets with similar feature.

Pneumatic cylinder:

All the cylinders of this series are magnetic, with a pneumatic brake inside the back head.

Maximum operating pressure 6 bar. Maximum operating temperature 70°C. The electronic switch for detecting the position is AU570 (see the presentation at page 87) and must be ordered separately.

Spindle:

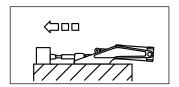
To be ordered separately (see accessories on page 87)

Feature and applications:

A filter-reducer-lubricator group is recommanded for a long and smooth operation of the cylinder, while for a long duration of the mechanical components we recommend using suitable flow regulations and calibrating the speed of the motion

You can find the instructions for the set-up and daily use of the items of this series on the technical sheets reported on our website.

The values of the clamping force Fs on the chart are measured at 6 bar pressure air. This pneumatically operated series can be found on p. 41.



Code	Description	A	В	С	D	E	F	G	Н	1	L	М	N	P	Q	R	S	*	Fh (daN)	Fs (daN)	gr. ∆∆
A0444	70/SP4	163	50	13,5	20	48	70	26		26	13	M6	12	8,5	4,3	7,5	M5	12	120	78	500
A0446	360/SP4	274	69	27,5	32	58	94	33,5		36,5	30	M8	15	12	5,5	9,5	1/8"	23	560	128	1400
A0448	1100/SP4	361	85	28	49	70	138	41	41	35	15	M10	18	16	8,5	11	1/4"	32	1600	340	2600
A0450	2100/SP4	482	96,5	38,5	61,5	82,5	190	50	50	50	35	m12	22	20	8,5	13,5	1/4"	45	2500	552	5200



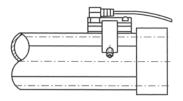
THE PROXIMITY SWITCHES

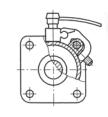
The proximity switches are sensors capable of detecting the presence of a magnetic field and report it through an electric pulse. The tools of this series are provided with magnetic cylinders that, since they are related by relative proximity switches, provide electric command and/or control impulses when activated. Since it is equipped with luminous LEDs, it operates at a minimum voltage of 3 V, and in case of series connection, the voltage drop will be 3 V. for each. It is good practice to use a connecting cable that is as short as possible since this could harm the operation of the sensor due to the capacity of the cable, which is directly proportional to its length. For example, for a 10 meter cable we recommend the series application to an inductor sensor that eliminates the effects of the capacity of the cable. DC positive pole must always be connected to the brown wire. We recommend keeping an adequate distance between the electric cables and large ferrous objects as this could cause disturbances to the sensor due to the effects of mutual induction. The sensors are in a condition to receive a signal at a speed of 1 m/s.

ELECTRICAL DATA	
DC Voltage	3-110 V
AC Voltage	3-110 V
Current at 25°	0,3 A
Power	10 VA
Connection time	0,6 mS
Disconnection time	0,1 mS
Connection point	110 Gauss
Disconnection point	60 Gauss
Electrical life (pulses)	107
Contact resistance	0,1 Ohm



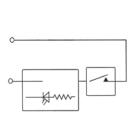


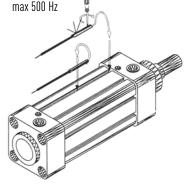




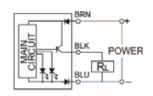


ELECTRICAL DATA	
DC Voltage	3-110V
AC Voltage	3-110 V
Current at 25°	200 mA
Power	6 w
Connection time	0,5 mS
Disconnection time	0,1 mS
Connection point	110 Gauss
Disconnection point	60 Gauss
Electrical life (pulses)	107
Contact resistance	0,1 0hm
Voltage drop	۷ 3
V Nominal operating point	25-30 A
T Operating frequency	max 500 Hz





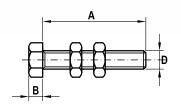
CONNECTION BOARD



ELECTRICAL DATA	
Switch logic	Electronic normally open
Model	PNP
Operating voltage	10 ~ 28 V DC
Operating current	80 mA max
Power	2 W max
Red Led indicator	unstable reading rang
Green Led	stable reading range
Operating temperature	-10 ~ 60 °C



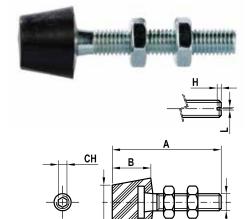




RIGID SPINDLE

ALSO IN STAINLESS STEEL (See table)

Code	Description	Stainless steel Code	Description	A	В	D
AU099	10099	AU509	50099	20	3	M4
AU100	10100	AU510	50100	35	3,5	M5
AU101	10101	AU511	50101	45	4	M6
AU102	10102	AU512	50102	55	5	M8
AU103	10103			70	6	M10
AU104	10104			80	8	M12
AU105	10105			120	8	M12



NEOPRENE SPINDLE

ALSO IN STAINLESS STEEL (See table)

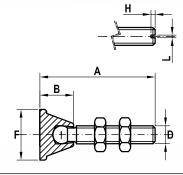
Code	Description	Stainless steel Code	Description	A	В	D	F	СН	L	Н
AU139	10139	AU539	50139	25	5	M4	6			
AU140	10140	AU540	50140	45	11	M5	10	2,5		
AU141	10141	AU541	50141	55	12	M6	12,5	3		
AU142	10142	AU542	50142	70	16	M8	16	4		
AU143	10143			77	20	M10	20	5		
AU144	10144			100	25	M12	24		2	2,8
AU145	10145			130	25	M12	24		2	2,8





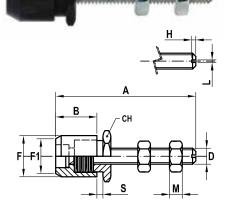
ALSO IN STAINLESS STEEL (See table)

Code	Description	Stainless steel Code	Description	A	В	D	F	L	Н
AU120	10120	AU520	50120	36	9,5	M5	14	0,8	1,25
AU121	10121	AU521	50121	46	10	M6	16	1	1,6
AU122	10122	AU522	50122	65	12	M8	18	1,2	2
AU123	10123			75	14	M10	20	1,6	2,4
AU124	10124			85	16	M12	24	2	2,8
AU125	10125			125	16	M12	24	2	2,8



SPRING SPINDLE

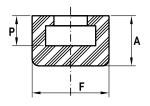
Code	Description	A	В	D	F	F1	М	CH	L	Н
AU128	10128	45	13	M5	13	11	4	14	0,8	1,25
AU129	10129	50	15	M6	16	13	4	16	1	1,6
AU130	10130	70	17	M8	18	15	5	18	1,2	3
AU131	10131	85	20	M10	24	18	6	24	1,6	2,4
AU132	10132	106	24	M12	28	21	7	27	2	2.8



ELI (doN) 300										1
FH (daN) 300		M12								
250	_	$\overline{}$								
200			$\overline{}$							
150	/	M10								
	_	М8	<u></u>	L						
100										
50	_	М6								
0		M5			//	/	_ `	/	′	S (m/m)
_ ()	1	1		2	3	3	-	+	, ,



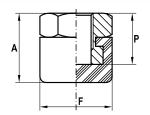




NEOPRENE CAP

Code	Description	A	F	Р	For spindle
AU109	1099	6,5	11	4	10099-M4
AU110	1100	8	12	5,5	10100-M5
AU111	1101	10	15	6	10101-M6
AU112	1102	13	19	7,5	10102-M8
AU113	1103	16	24	9	10103-M10
AU114	1104	19	26	10,5	10104-10105-M12



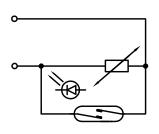


THREADED NEOPRENE CAP

Code	Description	A	F	P	For spindle
AU200	1200	11	12,5	8,5	M5
AU201	1201	14	15	10	M6
AU202	1202	18	19	12,5	M8
AU203	1203	23	24	16	M10
AU204	1204	26,6	26	18	M12

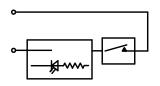


PROXIMITY SWITCHES



A0400 IOI IIIOUCIO
400/APM/EPM - 2100/SPM
AU460 for models
200/APM/EPM - 300/APM/EPM
200/APVM/EPVM - 200/APVMS/EPVMS
300/APVM/EPVM - 300/APVMS/EPVMS





AU	4/U	To	Γī	ΠO	đe	ts

360/SPM - 1100/SPM

1000/EPM/EPVM 2000/EPM/EPVM

AU570 for models

1000/EPM/EPVM 2000/EPM/EPVM

LPV1/2/3 - 75-130-230-330-430/AP/EP/APV/EPV/ APVS/EPVS - 70-360-1100-2100/SP4





ERGONOMIC HANDLE

Code	Description	Used for series
AU150	10150	75/A-B-E-F-M-MF-N-O-P-ML-NL-OL-PL**50/ASD-ASS**70/AS-ASD-ASS**80/AS**160/T6 "Also for the Stainless steel series"
AU151	10151	120/AS**130/M-N-O-P-MF-A-B-E-F-ML-NL-OL-PL-OLS-PLS**LLA-LLB-LLE-LLF/01 "Also for the Stainless steel series"
AU152	10152	200/AVF-EVF**230/A-B-E-F-AL-BL-EL-ELS-FL-FLS-M-MF-N-O-P**165/AS**320/T6**200/ APV3S-APVMS-EPV3S-EPVMS** "Also for the Stainless steel series"
AU153	10153	200/AV-EV**300/AVF-EVF**330/A-B-E-F**550/ASD-ASS**300/AS**550/AS**200/ T-TF**33/T-TF-TL-TFL**700/T6**300/APV3S-APVMS-EPV3S-EPVMS "Also for the Stainless steel series"
AU154	10154	300/AV-EV**430/A-B-E-F**LLA-LLB-LLE-LLF/02**1100/AS**340/AS**300/T-TF**43/ T-TF-TL-TFL**1400/T5**355/M-MF-N-O-P "Also for the Stainless steel series"
AU155	10155	530/A-B-E-F**2100/AS**3100/AS**400-T-TF**455/M-MF-N-O-P
AU156	10156	LLE-LLF/03**1000/F**2000/F
AU157	10157	LLE-LLF/04**3000/F
AU158	10158	160/AS-ASD-ASS**230/OLS-PLS
AU159	10159	230/ML-NL-OL-PL "Also for the Stainless steel series"
AU160	10160	355/ML-NL-OL-PL
AU161	10161	455/ML-NL-OL-PL

FLANGED WASHER

ALSO IN STAINLESS STEEL (See table)



Code	Description	Stainless steel Code	Description	Used for series	For spindle
AU205	20105	AU505	50105	25/M-MX	M4
AU206	20106	AU506	50106	70/AP3-75/M-N-MF-A-B-ML-NL "Also for the Stainless steel series"	M5
AU207	20107	AU507	50107	AT6-AP6 (NO INOX) 130/M-N-MF-A-B-ML-NL-AL-BL "Also for the Stainless steel series"	M6
AU208	20108	AU508	50108	AT8-AP8 (NO INOX) 200/AV-APM-AP3-APV3-APVM-APV3S- APVMS-AVF-230/M-N-MF-A-B-ML-NL-AL-BL "Also for the Stainless steel series"	M8
AU209	20109			300/A-B-AV-APV3S-APVMS-APM-APV3-APVM-AP3-AVF-330/A-B-355/M-N-MF-ML-NL	M10
AU210	20110			400/AP3-APM-430/A-B-455/M-N-ML-NL-530/A	M12
AU211	20111			LLA-B/01	M6
AU212	20112			LLA-B/02	M10

BOLT RETAINER BAND

ALSO IN STAINLESS STEEL (See table)

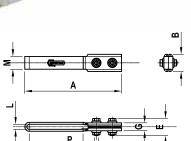


Code	Description	Stainless steel Code	Description	Used for series	For spindle
AU180	10180	AU580	50180	70/EP3-75/0-P-E-F-OL-PL "Also for the Stainless steel series"	M5
AU181	10181	AU581	50181	125/EP3	M6
				200/EV-EPM-EP3-EPV3-EPVM-EPV3S-EPVMS-EVF-230/	
AU182	10182	AU582	50182	O-P-E-F-OL-PL-EL-FL	M8
				"Also for the Stainless steel series"	
AU183	10183			300/EV-EPV3S-EPVMS-EPM-EPV3-EPVM-EP3-EVF	M10
AU184	10184			330/E-F-355/O-P-OL-PL	M12
AU185	10185			400/EP3-EPM	M12
AU186	10186			430/E-F-455/O-P-OL-PL	M12
AU189	10189	AU589	50189	130/O-P-E-F-OL-PL-EL-FL "Also for the Stainless steel series"	M6
AU190	10190			530/E-F	M12

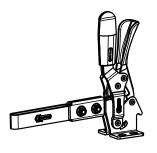
ACCESSORIES







EXTENSION

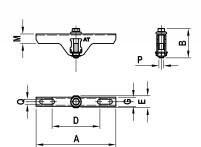




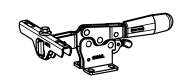
Code	Description	A	В	D	E	G	1	M	0	P	Q	yı. ∆∆	Can be applied to the tools
AU340	AP6	121	21,5	67,5	21,5	10	6,3	16	20	M5		95	130/OLS/PLS/ELS/FLS
AU342	AP8	142	24,5	71,5	26,5	12	8,2	18	26	M6		165	230/OLS/PLS/ELS/FLS

CROSS BAR





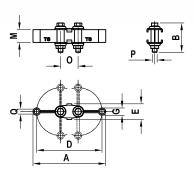


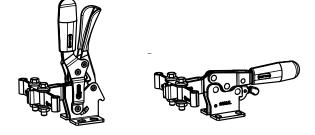


Code	Description	A	В	D	Ε	G	L	М	0	P	Q	gr. ∆∆	Can be applied to the tools
AU320	AT6	100	37	60-85	15	11,5		12		M6	6,2	50	130 VER130 HORIZ125/AP3
AU322	AT8	120	43	70-100	18	14		15,5		M8	8,2	96	230 VER 230 HORIZ 200/AP3

ARTICULATED CROSS BAR







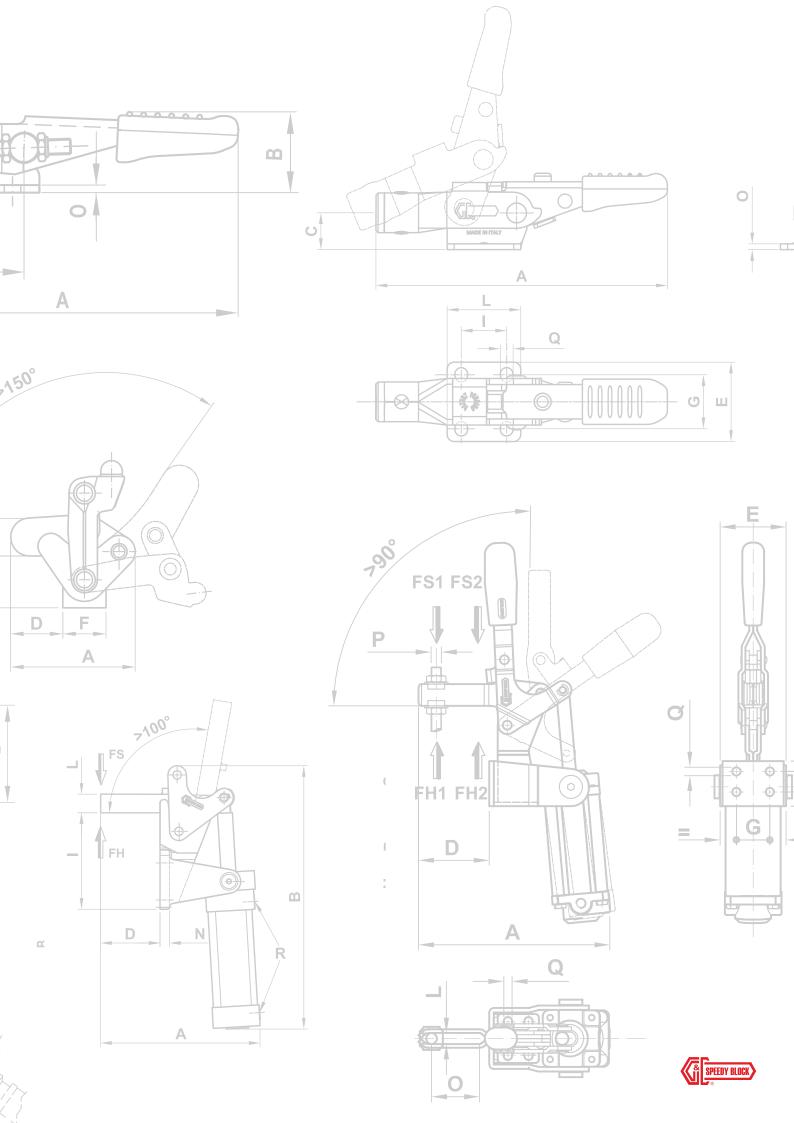
Code	Description	A	В	D	E	G	L	М	0	P	Q	gr. ∆∆	Can be applied to the tools
AU330	TS6	91	37	82	19,5	9,2		16	22	M6	6,2	70	130 VER 130 HORIZ 125AP3
AU332	TS8	112	43	100	26	12		18	27	M8	8	120	230 VER 230 HORIZ 200AP3

Description	Code	Pag.	Description	Code	Pag.	Description	Code	Pag.
1099	AU109	88	10157	AU157	89	1100 - 2100/SP4	AU570	88
1100	AU110	88	10158	AU158	89	1100/AS	AG361	41
1101	AU111	88	10159	AU159	89	1100/SP3	A0371	84
1102	AU112	88	10160	AU160	89	1100/SP4	A0448	85
1103	AU113	88	10161	AU161	89	120/AS	AG120	40
1104	AU114	88	10180	AU180	89	125/AP3	A0041	74
1200	AU200	88	10181	AU181	89	125/EP3	A0046	74
1201	AU201	88	10182	AU182	89	130/A	AA530	10
1202	AU202	88	10183	AU183	89	130/AL	AA582	12
1203	AU203	88	10184	AU184	89	130/ALX	AS200	12
1204	AU204	88	10185	AU185	89	130/AP	A0408	75
1540	AL758	71	10186	AU186	89	130/APV	A0412	77
1575	AL760	71	10189	AU189	89	130/AVF	AA142	17
10099	AU099	87	10190	AU190	89	130/AX	AS150	10
10100	AU100	87	20105	AU205	89	130/B	AA532	11
10101	AU101	87	20106	AU206	89	130/BL	AA584	13
10102	AU102	87	20107	AU207	89	130/BLX	AS202	13
10103	AU103	87	20108	AU208	89	130/BX	AS155	11
10104	AU104	87	20109	AU209	89	130/E	AA534	10
10105	AU105	87	20110	AU210	89	130/EL	AA586	12
10120	AU120	87	20111	AU211	89	130/ELS	AA587	14
10121	AU121	87	20112	AU212	89	130/ELX	AS204	12
10122	AU122	87	30080	AG416	42	130/EP	A0410	75
10123	AU123	87	30165	AG421	42	130/EPV	A0414	77
10124	AU124	87	30340	AG426	42	130/ER	AR530	68
10125	AU125	87	50099	AU509	87	130/EVF	AA144	17
10128	AU128	87	50100	AU510	87	130/EX	AS160	10
10129	AU129	87	50101	AU511	87	130/F	AA536	11
10130	AU130	87	50102	AU512	87	130/FL	AA588	13
10131	AU131	87	50105	Au505	89	130/FLS	AA589	14
10132	AU132	87	50106	Au506	89	130/FLX	AS206	13
10139	AU139	87	50107	Au507	89	130/FX	AS165	11
10140	AU140	87	50108	Au508	89	130/M	AD135	30
10141	AU141	87	50120	AU520	87	130/MF	AD136	35
10142	AU142	87	50121	AU521	87	130/MFX	DS136	35
10143	AU143	87	50122	AU522	87	130/ML	AD152	32
10144	AU144	87	50139	AU539	87	130/MLX	DS152	32
10145	AU145	87	50140	AU540	87	130/MX	DS135	30
10150	AU150	89	50141	AU541	87	130/N	AD140	31
10151	AU151	26	50142	AU542	87	130/NL	AD154	33
10151	AU151	89	50180	AU580	89	130/NLX	DS154	33
10152	AU152	89	50181	AU581	89	130/NX	DS140	31
10153	AU153	89	50182	AU582	89	130/0	AD145	30
10154	AU154	26	50189	AU589	89	130/0L	AD143	32
10154	AU154	89	1000/EPM	A0600	80	130/0LS	AD136	34
10155	AU155	89	1000/EPM/EPVM	AU470	88	130/0LX	DS156	32
10156	AU156	26	1000/EPM/EPVM	AU570	88	130/0EX 130/0R	AR145	69
10156	AU156	89	1000/EPVM	A0605	81	130/0X	DS145	30
10157	AU157	26	1000/F	AA900	18	130/P	AD150	31
1010/	AU 10/		1000/1	MA7UU	10	100/1	MUTOU	JI

Description	Code	Pag.	Description	Code	Pag.	Description		Code	Pag.
130/PL	AD158	33	160/TUX	AU422	59	230/E		AA544	10
130/PLS	AD151	34	165/AS	AG406	42	230/EL		AA594	12
130/PLX	DS158	33	1700/T2	AL518	51	230/ELS		AA595	14
130/PX	DS150	31	1700/T2-T2S-T6-T6S	AX561	57	230/ELX		AS214	12
1400/T3	AL550	55	1700/T20X-T2S0X-T60X-T6S0X	AX578-179	57	230/EP		A0418	75
1400/T3-T3S	AX564	57	1700/T20X-T2S0X-T60X-T6S0X	AX578-209	57	230/EPV		A0422	77
1400/T30-T3S0	AVE/1 170		1700/T20X-T2S0X-T60X-T6S0X	AX578-259	57	230/EPVS		A0426	79
1700/T20-T2S0-T60-T6S0	AX561-179	57	1700/T2S	AL520	51	230/ER		AR540	68
1400/T30-T3S0	AVE/1 000		1700/T2SX	AS520	51	230/EVF		AA228	17
1700/T20-T2S0-T60-T6S0	AX561-209	57	1700/T2X	AS518	51	230/EX		AS190	10
1400/T30-T3S0	AVE/1 0F0		1700/T2X-T2SX-T6-T6SX	AX578	57	230/F		AA546	11
1700/T20-T2S0-T60-T6S0	AX561-259	57	1700/T6	AL795	53	230/FL		AA596	13
1400/T3S	AL552	55	1700/T6S	AL805	53	230/FLS		AA597	14
1400/T5	AL590	60	1700/T6SX	AS625	53	230/FLX		AS216	13
1500-1510/T2S	AX565	57	1700/T6X	AS615	53	230/FX		AS195	11
1500/T2S	AL750	70	200/AP3	A0161	74	230/M		AD270	30
1510/T2S	AL755	70	200/APM/EPM - 300/APM/EPM	AU460	88	230/MF		AD271	35
160/AS	AG160	41	200/APV3	A0181	76	230/MFX		DS271	35
160/ASD	AG165	39	200/APV3S	A0184	78	230/ML		AD290	32
160/ASS	AG170	39	200/APVM/EPVM - 200/APVMS/EPVMS	AU460	88	230/MLX		DS287	32
160/ASX	AS397	41	200/AV	AA220	15	230/MX		DS270	30
160/T16	AS600	52	200/AVF	AA221	16	230/N		AD275	31
160/T16	AX604	57	200/EP3	A0166	74	230/NL		AD292	33
160/T160	AX604-103	57	200/EPV3	A0186	76	230/NLX		DS289	33
160/T160	AX604-153	57	200/EPV3S	A0189	78	230/NX		DS275	31
160/T160	AX604-203	57	200/EV	AA225	15	230/0		AD280	30
160/T2	AL500	50	200/EVF	AA226	16	230/OL		AD294	32
160/T2-T6	AX556	57	200/T	AL200	46	230/OLS		AD295	34
160/T20-T30-T40-T60	AX556-103	57	200/TF	AL205	46	230/OLX		DS291	32
160/T20-T30-T40-T60	AX556-153	57	2000/EPM	A0620	80	230/OR		AR280	69
160/T20-T30-T40-T60	AX556-203	57	2000/EPM/EPVM	AU470	88	230/OX		DS280	30
160/T20X-T30X	AX570-103	57	2000/EPM/EPVM	AU570	88	230/P		AD285	31
160/T20X-T30X	AX570-153	57	2000/EPVM	A0625	81	230/PL		AD296	33
160/T20X-T30X	AX570-203	57	2000/F	AA905	18	230/PLS		AD297	34
160/T2X	AS500	50	2100/AS	AG371	41	230/PLX		DS293	33
160/T2X	AX570	57	2100/SP3	A0381	84	230/PX		DS285	31
160/T3	AL530	54	2100/SP4	A0450	85	25/M		AD025	30
160/T3-T4	AX557	57	230/A	AA540	10	25/MX		DS025	30
160/T3X	AS530	54	230/AL	AA590	12	300/AP3		A0201	74
160/T3X	AX574	57	230/ALX	AS210	12	300/APV3		A0221	76
160/T4	AL560	56	230/AP	A0416	75	300/APV3S		A0224	78
160/T5	AL575	58	230/APV	A0420	77	300/APVM/EPVM -	300/APVMS/EPVMS	AU460	88
160/T5X	AS545	58	230/APVS	A0424	79	300/AS		AG300	40
160/T6	AL780	52	230/AVF	AA223	17	300/AV		AA320	15
160/TG	AU400	59	230/AX	AS180	10	300/AVF		AA321	16
160/TGX	AU420	59	230/B	AA542	11	300/EP3		A0206	74
160/TT	AU404	59	230/BL	AA592	13	300/EPV3		A0226	76
160/TTX	AU424	59	230/BLX	AS212	13	300/EPV3S		A0229	78
160/TU	AU402	59	230/BX	AS185	11	300/EV		AA325	15
_			_					_	

Description Code P		Pag.	Description	Code	Pag.	Description	Code	Pag.
300/EVF	AA326	16	330/AP	A0428	75	43/T	AL420	47
300/T	AL300	46	330/APV	A0432	77	43/TF	AL425	47
300/TF	AL305	46	330/APVS	A0436	79	43/TFL	AL445	48
3000/F	AA910	18	330/AVF	AA322	17	43/TFLX	AS446	48
3100/AS	AG381	41	330/B	AA552	11	43/TFX	AS438	47
320/T16	AS605	52	330/E	AA554	10	43/TG	AU546	49
320/T16	AX606	57	330/EP	A0430	75	43/TGX	AU558	49
320/T160	AX606-130	57	330/EPV	A0434	77	43/TL	AL440	48
320/T160	AX606-155	57	330/EPVS	A0438	79	43/TLX	AS444	48
320/T160	AX606-205	57	330/ER	AR550	68	43/TT	AU554	49
320/T2	AL505	50	330/EVF	AA328	17	43/TTX	AU566	49
320/T2-T6	AX558	57	330/F	AA556	11	43/TU	AU550	49
320/T20-T30-T40-T60	AX558-130	57	340/AS	AG411	42	43/TUX	AU562	49
320/T20-T30-T40-T60	AX558-155	57	355/M	AD370	30	43/TX	AS436	47
320/T20-T30-T40-T60	AX558-205	57	355/MF	AD371	35	430/A	AA560	10
320/T20X-T30X	AX572-130	57	355/ML	AD390	32	430/AP	A0440	75
320/T20X-T30X	AX572-155	57	355/N	AD375	31	430/AP/EP/APV/EPV/APVS/EPVS	AU570	88
320/T20X-T30X	AX572-205	57	355/NL	AD392	33	430/B	AA562	11
320/T2X	AS505	50	355/0	AD380	30	430/E	AA564	10
320/T2X	AX572	57	355/0L	AD394	32	430/EP	A0442	75
320/T3	AL535	54	355/OR	AR380	69	430/F	AA566	11
320/T3-T4	AX559	57	355/P	AD385	31	455/M	AD470	30
320/T3X	AS535	54	355/PL	AD396	33	455/ML	AD490	32
320/T3X	AX576	57	360/AS	AG351	41	455/N	AD475	31
320/T4	AL565	56	360/ASX	AS399	41	455/NL	AD492	33
320/T5	AL580	58	360/SP3	A0361	84	455/0	AD480	30
320/T5X	AS550	58	360/SP4	A0446	85	455/0L	AD494	32
320/T6	AL785	52	360/SPM - 1100/SPM	AU460	88	455/P	AD485	31
320/TG	AU406	59	400/AP3	A0301	74	455/PL	AD496	33
320/TGX	AU556	59	400/APM/EPM - 2100/SPM	AU450	88	50/ASD	AG050	38
320/TT	AU410	59	400/EP3	A0306	74	50/ASS	AG055	38
320/TTX	AU430	59	400/T	AL400	46	530/A	AA570	10
320/TU	AU408	59	400/TF	AL405	46	530/B	AA572	11
320/TUX	AU428	59	4000/T2	AL522	51	530/E	AA574	10
33/T	AL410	47	4000/T2-T2S-T6-T6S	AX562	57	530/F	AA576	11
33/TF	AL415	47	4000/T20-T2S0-T60-T6S0	AX562-211	57	550/AS	AG355	41
33/TFL	AL435	48	4000/T20-T2S0-T60-T6S0	AX562-361	57	550/ASD	AG175	39
33/TFLX	AS442	48	4000/T20-T2S0-T60-T6S0	AX562-421	57	550/ASS	AG180	39
33/TFX	AS432	47	4000/T20X-T2S0X-T60X-T6S0X	AX580-211	57	70/AP3	A0020	74
33/TG	AU544	49	4000/T20X-T2S0X-T60X-T6S0X	AX580-361	57	70/AS	AG070	41
33/TGX	AU556	49	4000/T20X-T2S0X-T60X-T6S0X	AX580-421	57	70/ASD	AG075	39
33/TL	AL430	48	4000/T2S	AL524	51	70/ASS	AG080	39
33/TLX	AS440	48	4000/T2SX	AS524	51	70/ASX	AS395	41
33/TT	AU552	49	4000/T2X	AS522	51	70/EP3	A0025	74
33/TTX	AU564	49	4000/T2X	AX580	57	70/SP3	A0350	84
33/TU	AU548	49	4000/T6	AL800	53	70/SP4	A0444	85
33/TUX	Au560	49	4000/T6S	AL810	53	700/T16	AS610	52
33/TX	AS430	47	4000/T6SX	AS630	53	700/T16	AX608	57
330/A	AA550	10	4000/T6X	AS620	53	700/T160	AX608-127	57

Description	Code	Pag.	Description	Code	Pag.	Description	Code	Pag.
700/T160	AX608-157	57	75/NX	DS080	31	E3TX-E3TLX	AX652	64
700/T160	AX608-207	57	75/0	AD085	30	LC01	AU250	26
700/T2	AL510	50	75/0L	AD096	32	LC02	AU255	26
700/T2-T6	AX560	57	75/0LX	DS104	32	LC03	AU260	26
700/T20-T30-T40-T60	AX560-127	57	75/0X	DS085	30	LC04	AU265	26
700/T20-T30-T40-T60	AX560-157	57	75/P	AD090	31	LLA01	AA600	22
700/T20-T30-T40-T60	AX560-207	57	75/PL	AD098	33	LLA02	AA630	22
700/T20X-T30X	AX573-127	57	75/PLX	DS106	33	LLB01	AA605	23
700/T20X-T30X	AX573-157	57	75/PX	DS090	31	LLB02	AA635	23
700/T20X-T30X	AX573-207	57	80/AS	AG401	42	LLE01	AA610	22
700/T2X	AS510	50	AP6	AU340	90	LLE02	AA640	22
700/T2X	AX573	57	AP8	AU342	90	LLE03	AA660	22
700/T3	AL540	54	AT6	AU320	90	LLE04	AA680	22
700/T3-T4	AX563	57	AT8	AU322	90	LLF01	AA615	23
700/T3X	AS540	54	E1G	AE1010	62	LLF02	AA645	23
700/T3X	AX577	57	E1G-E1GL	AX630	64	LLF03	AA665	23
700/T4	AL570		E1GL	AE1110	63	LLF04	AA685	23
700/T5	AL585	58	E1GLX	ES1110	63	LM01	AU280	26
700/T5X	AS555	58	E1GX	ES1010	62	LM02	AU285	26
700/T6	AL790	52	E1GX-E1GLX	AX636	64	LM03	AU290	26
700/TG	AU412	5 <u>7</u>	E1T	AE1020	62	LM04	AU295	26
700/TGX	AU432	5 <i>7</i>	E1T-E1TL	AX642	64	LPV1	A0384	82
700/TT	AU416	5 <i>7</i>	E1TL	AE1120	63		A0304	
700/TTX	AU436	5 <i>7</i>	E1TLX	ES1120	63	LPV1/2/3 - 70 - 75 -130 - 230 - 330 - 360	AU570	88
700/TU	AU414	5 <i>7</i>	E1TX	ES1020	62	LPV2	A0386	82
700/TUX	AU414 AU434	59	E1TX-E1TLX	AX648	64	LPV3	A0388	82
75/A	A0434 AA520	10	E2G	AK040 AE2010	62	LS01	AU230	26
75/AP	AA320 A0400	75	E2G-E2GL	AX632	64	LS02	AU230 AU235	26
75/APV		77	E2GL					26
75/AVF	A0404			AE2110 ES2110	63	LS03	AU240	
	AA090	17	E2GLX		63	LS04	AU245	26
75/AX	AS095	10	E2GX	ES2010	62	LSC01	AA700	24
75/B	AA522	11	E2GX-E2GLX	AX638	64	LSC02	AA725	24
75/BX	AS100	11	E2T	AE2020	62	LSC03	AA750	24
75/E	AA524	10	E2T-E2TL	AX644	64	LSC04	AA775	24
75/EP	A0402	75	E2TL	AE2120	63	LSG01	AA705	24
75/EPV	A0406	77	E2TLX	ES2120	63	LSG02	AA730	24
75/EVF	AA092	17	E2TX	ES2020	62	LSG03	AA755	24
75/EX	AS105	10	E2TX-E2TLX	AX650	64	LSG04	AA780	24
75/F	AA526	11	E3G	AE3010	62	LSH01	AA710	25
75/FX	AS110	11	E3G-E3GL	AX634	64	LSH02	AA735	25
75/M	AD075	30	E3GL	AE3110	63	LSH03	AA760	25
75/MF	AD076	35	E3GLX	ES3110	63	LSH04	AA785	25
75/MFX	DS076	35	E3GX	ES3010	62	PB01	AU300	26
75/ML	AD092	32	E3GX-E3GLX	AX640	64	PB02	AU305	26
75/MLX	DS100	32	E3T	AE3020	62	PB03	AU310	26
75/MX	DS075	30	E3T-E3TL	AX646	64	PB04	AU315	26
75/N	AD080	31	E3TL	AE3120	63	TS6	AU330	90
75/NL	AD094	33	E3TLX	ES3120	63	TS8	AU332	90
75/NLX	DS102	33	E3TX	ES3020	62			





SPEEDY BLOCK Srl
Via Pelizza da Volpedo, 36-38-40 - 20085 LOCATE DI TRIULZI MI
Tax Identification and VAT No. 01156830158 - Fully paid share capital € 102,960.
Administrative Economic Repertoire Directory Registration No. MI 378154
Tel.+39.02.90.73.30.26/27
www.speedyblock.com - info@speedyblock.com