

	C	COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =
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The clamping and control levers more in the same Crection. When clamping is obtained, the control lever is in the control position. The light version of the series presented in his atomic has a returning force between 75 and 775 dat. N, while the heavy version has a retaining force between 1000 and 3000 daN. The reavy version is used when highly it tense resistant forces are used, for example when closing jigs for foams, polyurethare, etc. The clamps of this series are built to be easily disassembled for reworking of the individual elements depending on the requirements of use.

PERFORMANEEH1 FH2

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

FOR THE HEAVY SERIES: The pivots and supporting bushes are made of tempered and ground steel. The other parts are made of <u>reddeble steel</u>. Finishing of the series: burnished.

The red handles are made of polyurethane and are constant to of scolvents and other chemical agents.____







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 \geq 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 76)

Features and applications: 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.

This pneumatic actuated series is found on page 69.









Code	Description	Stainless steel Code	Stainless steel	A	B	C	D	E	F	G	H	I	L	M	N	0	P	Q	Fh1 (daN)	Fh2 (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	75	160	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	105	175	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	19÷20		8,5	18	3	40	M8	6,7	200	320	380
AA544	230/E	AS190	230/EX	112	168	33,5	69	45	43	32	19÷20	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	240	400	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	280	500	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	450	875	2110
AA574	530/E			225	303	84,5	145	95	80	70	50÷51	10		32	7		M12	12,5	450		2110



SPEEDY BLOCK



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 \geq 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 76)

Features and applications: 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	Stainless steel	A	B	c	D	E	F	G	н	I	L	M	N	0	P	Q	Fh1 (daN)	Fh2 (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	75	160	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	105	175	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	19÷20		8,5	18	6,5	40	M8	6,7	200	320	380
AA546	230/F	AS195	230/FX	112	183	41,5	69	23	43	12	19÷20	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	240	400	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	280	500	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	450	875	1920
AA576	530/F			225	337	105	148	34	77	18	50÷51	10		32	12,5		M12	12,5	450		1920

SPEEDY BLOCK]]



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 76)

Features and applications: 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.

This pneumatically actuated series











FORM **AV**

FORM EV

Code	Description	A	B	c	D	E	F	G	H	I	L	M	N	0	P	Q	R	S	Fh1 (daN)	Fh2 (daN)	gr.
AA220	200/AV	157	154	75	58,5	38	32	26	16		8,5	17	3	34	M8	6,5	16	32	120	240	430
AA225	200/EV	159	154	75	60,5	38	32	26	16	6		17	3		M8	6,5	16	32	120	240	430
AA320	300/AV	193	198	108	76	48	45	30	28		10,4	20	3	42	M10	8,5	30	48	190	280	800
AA325	300/EV	195	198	108	78	48	45	30	28	8		20	3		M10	8,5	30	48	190	280	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 76)

Features and applications: 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. This pneumatic actuated series is found on page 69.











AVF

FORM EVF R

Q

Code	Description	A	B	c	D	E	F	G	H	I	L	M	N	0	P	Q	R	S	Fh1 (daN)	Fh2 (daN)	Gr.
AA221	200/AVF	103	203	77	59	38	32	26	16		8,5	17	3	36	M8	6,5	16	32	160	250	390
AA226	200/EVF	105	203	77	61	38	32	26	16	6		17	3		M8	6,5	16	32	160	250	400
AA321	300/AVF	130	258	108	76	48	45	30	28		10,3	20	3	50	M10	8,5	30	48	240	370	680
AA326	300/EVF	132	258	108	77,5	48	45	30	28	8		20	3		M10	8,5	30	48	240	370	690

SPEEDY BLOCK 13



HEAVY VERTICAL SERIES

Material: Weldable burnished 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 applications requiring which require major 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	B	C	D	E	F	G	H	I	Fh (daN)	gr.
AA900	1000/F	190	265	55	110	36	80	20	25	57,5	1000	2400
AA905	2000/F	220	295	65	120	36	100	20	35	57,5	2000	3600
AA910	3000/F	250	320	80	140	45	110	25	40	71	3000	5700





LONG LIFE SERIES

The tools of the Long life series have been successfully tested for more than 1,000,000 cycles.

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: Burnished 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 76) **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. Tested for more than 1,000,000 cycles.











Code	Description	A	B	c	D	E	F	G	H	I	L	M	N	0	P	Q	Fh1 (daN)	Fh2 (daN)	gr.
AA600	LLA01	91	136,5	30	49	48	36	32	20		6,3	16	3,5	32	M6	6,5	220	280	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	440	820	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

FORM

LLA

Q

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REINFORCED VERTICAL SERIES



REINFORCED VERTICAL SERIES WITH STRAIGHT BASE

Material: Burnished 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 76) 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.

Tested for more than 1,000,000 cycles.









B

301

330

78

88,5

74

96

52

68

75

90

24

32

Code

AA605

AA615

AA635

AA645

AA665

AA685

Description

LLB01

LLF01

LLB02

LLF02

LLF03

LLF04

A

91

86

129,5

129,5

161

203





Fh2 (daN) Fh1 G Μ Q D E F H I N 0 P gr. (daN) 37,5 29 20 Μ6 152 49 36 13 6,3 16 8 32 6,5 220 280 330 152 37,5 44 29 36 13 20 6,5 16 8 38 Μ6 6,5 220 325 6 235 59,5 54 20 30 10,3 24 10 34 M10 8,5 440 1200 64 42 820 30 235 59,5 64 42 54 20 10 10,5 24 10 54,5 M10 8,5 440 1200

12,5

16,5

30

35

10

17,5

62

80

10,5

12,5

M12

M16

850

1540

55

65

12

16



1200

4510

LLF

TOGGLE MECHANISMS



TOGGLE MECHANISM WITH FOLDED BASE Material: Burnished steel Pivots: Hardened and ground steel. Supporting bushes: Hardened and ground steel Accessories: To be ordered separately (see Accessories on page 24) 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, being possible to weld the different parts and accessories and make up your clamp to better meet your requirements.

Tested for more than 1,000,000 cycles.









Code	Description	A	В	c	D	E	F	G	H	I	M	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

TOGGLE MECHANISMS



TOGGLE MECHANISM WITH STRAIGHT BASE
Material: Burnished steel
Pivots: Hardened and ground steel.
Supporting bushes: Hardened and ground steel
Accessories: To be ordered separately (see Accessories on page 24)
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, being possible to weld the different parts and accessories and make up your clamp to better meet your requirements.

Tested for more than 1,000,000 cycles.











Code	Description	A	B	C	D	E	F	G	H	I	Μ	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

Tested for more than 1,000,000 cycles.

Material: Burnished steel Pivots: Hardened and ground steel. Supporting bushes: Hardened and ground steel Accessories: To be ordered separately (see Accessories on page 24) 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, being possible to weld the different parts and accessories and make up your clamp to better meet your RoHS



requirements.





Code	Description	A	B	C	D	E	F	G	I	Μ	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

22 SPEEDY BLOCK

LONG LIFE SERIES ACCESSORIES





HANDLE

		A	B	C	F	gr
AU151	10151	13	5	55		12
AU154	10154	20	8	77		34
AU156	10156			112	22	50
AU157	10157			112	25	50









CLAMPING LEVER

CONTROL LEVER

LC01

LCO2

LCO3

LCO4

13

20

22

25

Code Description

AU250

AU255

AU260

AU265

Code	Description	K	M	N	0	gr	
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	

G

5

8

H

63

90

122

138

gr

31

108

122

175

SLEEVE

Code	Description	Р	Q	R	gr
AU280	LM01	13	16	6.5	13
AU285	LM02	20	24	10.5	42
AU290	LM03	24	30	12.5	76
AU295	LM04	32	35	16.5	120

BASE PLATE

Code	Description	S	T	U	٧	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





24 SPEEDY BLOCK







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

Components in case-hardening sheet steel. Hardened and tempered supporting pivots. Supporting bushes (for sizes from 350 daN and over) undergo case-hardening 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 during closing to ensure greater stability against transverse stresses.

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 made of stainless steel and are shown 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 M and **form MX** with open clamping lever and two flanged washers. Form O and **form OX** 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 76)

Features and applications:

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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.

Con March

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

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FORM

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Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	E	F	G	H		L	M	N	0	P	Q	Fh1 (daN)	Fh2 (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	40		25
AD075	75/M	DS075	75/MX	118	37	20	40	26	28	16÷19	13,5		5,5	11	2	20	M5	4,5	90	135	88
AD085	75/0	DS085	75/OX	118,5	37	20	40,5	26	28	16÷19	13,5	4		11	2		M5	4,5	90	135	88
AD135	130/M	DS135	130/MX	170	51	30,5	56	40	36	22,4÷28,4	26		6,5	16	2,5	32	M6	5,5	100	200	200
AD145	130/0	DS145	130/OX	171	51	30,5	57	40	36	22,4÷28,4	26	5		16	2,5		M6	5,5	100	200	200
AD270	230/M	DS270	230/MX	195	61,5	36,5	65	42	44	26÷31,5	26		8,5	18	3	37	M8	6,5	170	330	330
AD280	230/0	DS280	230/0X	197	61,5	36,5	67	42	44	26÷31,5	26	6		18	3		M8	6,5	170	330	340
AD370	355/M			269	83	50	100	56	60	38,8÷43	41		10	22	3,5	58	M10	8,5	180	400	700
AD380	355/0			271	83	50	102	56	60	38,8÷43	41	7		22	3,5		M10	8,5	180	400	720
AD470	455/M			308	98,5	60	115	65	70	40÷43	41,5		12,4	26	4	65	M12	8,5	320	620	1200
AD480	455/0			310	98,5	60	117	65	70	40÷43	41,5	10		26	4		M12	8,5	320	620	1230



SPEEDY BLOCK

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HORIZONTAL SERIES

WITH STRAIGHT BASE. Some sizes of this series are also made of stainless steel and are shown 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 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 76)

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.



1 L L



Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	F	G	H	Т	L	M	N	0	P	Q	Fh1 (daN)	Fh2 (daN)	gr.
AD080	75/N	DS080	75/NX	118	44,5	24÷25,5	40	28	8	13,5		5,5	11	4,5	20	M5	4,5	90	135	88
AD090	75/P	DS090	75/PX	118,5	44,5	24÷25,5	40,5	28	8	13,5	4		11	4,5		M5	4,5	90	135	88
AD140	130/N	DS140	130/NX	170	64	35÷38	56	36	10	26		6,5	16	7	32	M6	5,5	100	200	200
AD150	130/P	DS150	130/PX	171	64	35÷38	57	36	10	26	5		16	7		M6	5,5	100	200	200
AD275	230/N	DS275	230/NX	195	74,5	42÷44,5	65	44	12	26		8,5	18	6,75	37	M8	6,5	170	330	330
AD285	230/P	DS285	230/PX	197	74,5	42÷44,5	67	44	12	26	6		18	6,75		M8	6,5	170	330	340
AD375	355/N			269	102	60÷62	100	60	14	41		10	22	7,5	58	M10	8,5	180	400	700
AD385	355/P			271	102	60÷62	102	60	14	41	7		22	7,5		M10	8,5	180	400	720
AD475	455/N			308	119	68÷69,5	115	70	18	41,5		12,4	26	11,75	65	M12	8,5	320	620	1200
AD485	455/P			310	119	68÷69,5	117	70	18	41,5	10		26	11,75		M12	8,5	320	620	1230





HORIZONTAL SERIES WITH FOLDED BASE AND WITH 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 (for sizes $\geq 355)$

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 76)

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.











FORM

Code	Description	Stainless steel Code	Stainless steel	A	B	C	D	E	F	G	H	I	L	М	N	0	P	Q	Fh 1 (daN)	Fh2 (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	90	135	90
AD096	75/0L	DS104	75/0LX	118,5	37	20	39,5	26	28	16÷19	13,5	4		11	2		M5	4,5	90	135	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	100	200	200
AD156	130/OL	DS156	130/0LX	172	51	30,5	57	40	36	22,4÷28,4	26	5		16	2,5		M6	5,6	100	200	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	170	330	320
AD294	230/OL	DS291	230/0LX	196,5	61,5	36,5	66	44	44	26÷31,5	26	6		18	3		M8	6,6	170	330	330
AD390	355/ML			269	83	50	100	58	60	38,8÷43	41		10,5	22	3,5	58	M10	8,6	180	400	750
AD394	355/OL			270	83	50	101	58	60	38,8÷43	41	7		22	3,5		M10	8,6	180	400	750
AD490	455/ML			305	99	60	114	65	70	40÷43	41,5		12,5	26	4	65	M12	8,7	320	620	1200
AD494	455/OL			306,5	99	60	115,5	65	70	40÷43	41,5	10		26	4		M12	8,7	320	620	1220





HORIZONTAL SERIES WITH STRAIGHT

BASE AND WITH 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



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 76)

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	Stainless steel	A	B	c	D	F	G	H	I	L	M	N	0	P	Q	Fh1 (daN)	Fh2 (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	90	135	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	135	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	100	200	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	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	170	330	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	330
AD392	355/NL			269	102	60÷62	100	60	14	41		10,5	22	9,6÷7,5	58	M10	8,6	180	400	730
AD396	355/PL			270	102	60÷62	101	60	14	41	7		22	9,6÷7,5		M10	8,6	180	400	750
AD492	455/NL			305	120	68÷69,5	114	70	18	41,5		12,5	26	12,5÷11	65	M12	8,7	320	620	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	620	1220

SPEEDY BLOCK 31



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



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

Spindles: To be ordered separately (see Accessories on page 76)

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.







Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	E	F	G	H	L	M	N	0	P	Q	Fh1 (daN)	Fh2 (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	90	135	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	100	200	240
AD271	230/MF	DS271	230/MFX	196	102	77	62	43	40	28,5	24	8,5	18	3	37	M8	6,5	170	330	400
AD371	355/MF			269	135	102	96	52	52	32	32	10,5	22	3,5	58	M10	8,5	180	400	830





In this series, the circular movement of the control lever is transformed into a linear movement of the push rod. Excepted 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 series from 120 to 4500 daN.

PERFORMANCE

(ii) Sector stars)

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

The main feature of the ASD/ASS models is the low force application point as well as the very reduced encumbrance in the vertical. Models 80-165-30/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 SERIES: Based made of black varnished brass for size 70. Base made of forged black varnished steel for the other sizes. Components in galvanized case bardening sheet steel. Gaivenized steel pash roods. Supporting bushes and pivots undergo case burdening.

11











FORM **ASD**



Code	Description	A	B	C	D	E	F	G	H	I	L	M	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



PUSH AND PULL STRAIGHT-LINE ACTION SERIES

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

Performance:

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

traction clamping with clockwise control lever rotation

Spindles: To be ordered separately (see Accessories on page 76) **Features and applications:** The main feature of this series is its low force application point as well as the very reduced encumbrance in the vertical. A special grease is placed between two contacting surfaces during assembly.



PULL

PUSH



Code	Description	A	B	C	D	E	F	G	H	I.	L	M	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 76) Features and applications: The tools of this series can only be pushed. A special grease is placed between two contacting surfaces during assembly.







Code	Description	A	B	C	D	E	F	G	H	L	Μ	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: Black varnished brass for size 70; hot forged steel and painted black for the other sizes. Handles: Red polyurethane resistant to oils, grease and other chemical agents.

Spindles: To be ordered separately (see Accessories on page 76) 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 72.









Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	Р	Q	R	*	Fh (daN)	gr.
AG070	70/AS	86	42,5	12	22	36	64	26	13	26		M6	12	8,5	4,3	6	20	120	165
AG160	160/AS	116	56	15	31	46	85	33,5	11,5	36,5		M6	12	11	5,5	7	30	280	360
AG351	360/AS	122	72	25	32	45,5	90	33,5	30	36,5		M8	15	12	5,5	7	32	560	480
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	95	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 76) 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. A special grease is placed between two contacting surfaces during assembly.





PULL















Code	Description	Stainless steel Code	Stainless steel	A	B	D	E	I	L	M	N	0	P	T	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	Stainless steel	c		F	G		H	Q		R		s	V	S	upporto	per modello	1
Code AG416	Description 30080	Stainless steel Code AS416	Stainless steel 30080X	с 24		F 8	g 20		H	Q 5,5		r 22		s 4	v 35	S	upporto 80/AS	per modella - 80/ASX	
Code AG416 AG421	Description 30080 30165	Stainless steel Code AS416 AS421	Stainless steel 30080X 30165X	с 24 32		F 8 13,5	G 20 41		н - 19	Q 5,5 6,5		R 22 41		s 4 5	v 35 60	S	upporto 80/AS 65/AS	per modello - 80/ASX - 165/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 750 daN, and in the heavy 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 - 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 direction. In the closed position, the control lever is perpendicular to the support base.

PERFORMANCE

LIGHT SERIES: Companying the instruction of the seel. Draw hook instruction of the second sec

SPEEDY BLOCK 43

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LATCH SERIES



LATCH 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.

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







FOF	RW
TF	

Code	Description	A	B	C	D	E	F	G	н	L	M	N	0	Q	R	S	Т	Fh (daN)	gr.
AL200	200/T	203	49	37	43	45	35	32	19	18	10	16	100	6,5		3		200	300
AL205	200/TF	250	49	29	85÷105	45	35	32	19			16	100	6,5	5	3	M8	200	380
AL300	300/T	226	49	35	43	60	48	45	32	21	10	18	104	8,5		3		300	460
AL305	300/TF	305	49	25	90÷120	60	48	45	32			18	104	8,5	6	3	M10	300	560
AL400	400/T	278	60,5	43	45,5	84	54	60,5	28,5	26	14	25	160	10,5		5		400	1000
AL405	400/TF	343	60,5	30	105÷135	84	54	60,5	28,5	26		25	160	10,5	7	5	M12	400	1200





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 rod, bracket and nuts.

Features and applications: The tools of this series ensure a perfect closing of lids. The support base is parallel 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	Stainless steel	A	B	c	D	E	F	G	H	I	L	M	N	0	Q	S	T	Fh (daN)	gr.
AL500	160/T2	A\$500	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

LATCH SERIES



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 rod, bracket and nuts. 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	Stainless steel	A	B	c	D	E	F	G	H	I	L	M	N	0	Q	S	т	Fh (daN)	gr.
AL530	160/T3	AS530	160/T3X	68	36	5	48÷58	35	25,5	22	14,3	13	26	14	10	2	4,3	34,5	M4	160	100
AL535	320/T3	AS535	320/T3X	106	52,5	8	75÷95	44	37	25,5	20,5	19	36	22	15	3	6,5	53	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	64	M8	750	680



LATCH SERIES









FORM

Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	0	Q	S	T	Fh (daN)	gr.
AL560	160/T4	99	40	5	48÷58	35	25,5	22	14,3	13	26	14	10	2	4,3	32	M4	160	95
AL565	320/T4	152	57,5	8	75÷95	44	37	25,5	20,5	19	36	22	15	3	6,5	53	M6	320	295
AL570	700/T4	225	82	13	98÷122	54	48,5	36,5	27	32	52	26	23	3,5	8,5	64	M8	750	655





DOUBLE ROD SERIES (HEAVY PERFORMANCE)

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

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: The tool comes with a double rod, bracket and nuts. 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 parallel 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	Stainless steel	A	B	c	D	E	F	G	н	I	L	M	N	0	Q	S	Fh (daN)	FhX (daN)	gr.
AL600	1400/T2	AS580	1400/T2X	220	52	21	93÷105	64	48	45	28	45	68	M10	34	7	8,5	63	1700	1400	1110
AL610	2800/T2	AS585	2800/T2X	273	65	27	113÷123	80	60	57	35	57	85	M12	42	9	10,5	78	4000	3000	2070





DOUBLE ROD SERIES WELDABLE (HEAVY PERFORMANCE)

The sizes of this series are also produced in stainless $\Box\Box\Box$

Material: Hot-stamped, weldable, black varnished

steel or hot-stamped AISI 304 stainless steel.

Pivot: Hardened, ground and knurled steel to prevent V

Bar, swinging pivot and nuts: Galvanized steel or AISI 303 stainless steel Performance: The tool comes with a double rod, bracket and nuts.

Features and applications: The tools of this series ensure a perfect closing of lids.

The shape of the base plate and the hooking bracket are made in a way so that they can be easily welded to the tool to be used.

The construction features and materials chosen make these tools highly resistant. The support base is parallel 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	Stainless steel	A	B	c	D	E	F	G	I	L	м	N	0	S	Fh (daN)	FhX (daN)	gr.
AL620	1400/T2S	AS590	1400/T2SX	216	52	21	93÷105	64	38	46	26,5	68	M10	34,5	9,2	63	1700	1400	930
AL630	2800/T2S	AS595	2800/T2SX	257	65	27	102÷123	80	50	55	32	80	M12	43	12,7	78	4000	3000	1708



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: The tool comes with a double rod, bracket and nuts. **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.

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



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SPEEDY BLOCK





DOUBLE ROD SERIES WELDABLE

(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: The tool comes with a double rod, bracket and nuts.

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 shape of the base plate and the hooking bracket are made in a way so that they can be easily welded to the tool to be used.

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.

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LATCH SERIES VALUE

DEVICE WITH LATCH MAKES ACCIDENTAL OPENINGS IMPOSSIBLE. REQUIRES THE USE OF ONLY ONE HAND.

If the toplet st be used on machines or with applications in the presence of strong stressor vibrations, in which an accidental and undesired opening is likely, it is necessary to ensure a secure grip by means of a latch.

Fig. 1 shows the tool in the closed position; in this position it is not possible to open the tool.

In **Fig. 2**, the consent button (see arrow) has been pressed and the tool can be opened. The tool is opened and the end a<u>f</u> the stroke is reached when rotating the control lever (**Fig. 3 and 4**) in the direction of the arrow. Then, when the lever retracted in the direction opposite that of rotation (**Fig. 5 and 6**), the rod, which invoked by a device, automatically rises and frees the **vark** surface.

To close the tool again, return to the point shown in **Fig. 3**, then the path shown in **Fig. 2** is retraced when holding downthe release burion. Finally, when closing the tool (**Fig. 1**), the locking device, which is invoked by a spring, is inverted automatically. The entire cycle is carried out with one hand







T5 LATCH SERIES WITH SAFETY LOCK (LIGHT PERFORMANCE)

The sizes of this series are also produced in stainless steel $\Box\Box\Box$

Material: Burnished steel part and riveted pivots in galvanized steel or AISI 304 stainless steel.

Turned parts in galvanized steel or AISI 303 stainless steel.

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

Rod: Burnished 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 (the operation is described on page 53)

It is possible to choose from three different optional 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 parallel 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.



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Code	Description	Stainless steel Code	Stainless steel	A	B	c	E	G	I.	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	A\$550	320/T5X	153	38,5	19	44	32	19	40	3	6,7	400	295
AL585	700/T5	AS555	700/T5X	222	53	28	54	38,1	41,5	60	3,5	8,5	750	690





Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	G	H	I	L	м	P
AU400	160/TG	AU420	160/TGX	26	23	13	19,8	16	14,30	28	55,5	M6	4,5
AU406	320/TG	AU426	320/TGX	35	34	19	30	19	22,30	34	76,5	M8	6,7
AU412	700/TG	AU432	700/TGX	50	41	28	40,5	31	25,40	42	95,5	M10	8,5
Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	G	I	ι	м	P	
AU402	160/TU	AU422	160/TUX	35	14	13	20,4	25,4	28	54,5	M6	4,5	
AU408	320/TU	AU428	320/TUX	38	18	19	28	25,4	34	76,5	M8	6,7	
AU414	700/TU	AU434	700/TUX	50	26	28	39	31	43	93	M10	8,5	
Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	G	I	ι	м	Р	
AU404	160/TT	AU424	160/TTX	26	14	13	20	16	28	55	M6	4,5	
AU410	320/TT	AU430	320/TTX	35	18	19	30	19	34	76,5	M8	6,7	
AU416	700/TT	AU436	700/TTX	50	26	28	40,5	31	43	93	M10	8,5	

SPEEDY BLOCK 55



T5 LATCH SERIES WITH SAFETY LOCK (HEAVY PERFORMANCE)

Material: Sheet metal parts and riveted pivots in burnished steel.

Turned parts made of burnished steel **Handles:** Red polyurethane resistant to oils, grease and other chemical agents.

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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 operation is described on page 53)

The construction features and materials chosen make these tools highly resistant. The support base is parallel 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.







DOUBLE ROD SERIES WITH SAFETY LOCK (LIGHT PERFORMANCE)

The sizes of this series are also produced in AISI 316 stainless steel and are shown below in red.

Material: Galvanized steel or AISI 316 stainless steel

Riveted pivots and rod: 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 rod, bracket and nuts

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.

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	Stainless steel	A	B	c	D	E	F	G	H	I	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	25	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	44	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	58	M8	750	627	644





DOUBLE ROD SERIES WITH SAFETY LOCK (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 steelor 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: The tool comes with a double rod, bracket and nuts.

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







Code	Description	Stainless steel Code	Stainless steel	A	B	C	D	E	F	G	H	I	L	N	0	P	Q	S	T	Fh (daN)	gr.	gr.inox
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





DOUBLE ROD SERIES WELDABLE WITH SAFETY LOCK (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 steelor hotstamped **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: The tool comes with a double rod, bracket and nuts.

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





Code	Description	Stainless steel Code	Stainless steel	A	B	c	D	E	F	G	L	M	N	0	P	S	T	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







VERTICAL SERIES

FOR HIGH TEMPERATURES

Material: Burnished steel Riveted pivots: Burnished 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 76)

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 $^\circ$ 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	B	C	D	E	F	G	H	I	М	N	Р	Q	Fh1 (daN)	Fh2 (daN)	gr.
AR530	130/ER	85	136	28	44	42	35	27÷29	12,5÷19	5	16	2,5	6,5	5,6	160	300	210
AR540	230/ER	110	164	33,5	60	45	43	32	19÷20	6	18	3	8	6,7	200	320	330
AR550	330/ER	128	189	43	69	65	50	45÷46	29÷32	7	22	3,5	10,5	8,5	240	400	519





HORIZONTAL SERIES

FOR HIGH TEMPERATURES

Material: Burnished steel Riveted pivots: Burnished steel Supporting bushes: Hardened and ground steel.





Spindles: To be ordered separately (see Accessories on page 76) **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	B	C	D	E	F	G	H	I	Μ	N	Р	Q	Fh1 (daN) Fh	12 (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	100	200	185
AR280	230/OR	190	61,5	36,5	56	44	44	26÷31,5	26	6	18	3	8,5	6,6	170	330	300
AR380	355/OR	260,5	83	50	89,5	58	60	38,8÷43	41	7	22	3,5	10,5	8,6	180	400	700



PULL-ACTION SERIES



DOUBLE PULL-ACTION 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.









FORM 1500/T2S



Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	P	Q	R	S	T	Fh1 (daN)	gr.
AL750	1500/T2S	256	55	26	155	43	72	30	40	16	65	30	55	70	8,5	222	28	M10	1500	1240
AL755	1510/T2S	369	80,5	26	155	43	72	11	40	16	65	30	55	70	8,5	222	28	M10	1500	1320



C SERIES



C SERIES FOR HIGH TEMPERATURES

Material: The sheet metal parts are made from steel; The other parts are made of hot-stamped 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	B	c	D	E	F	G	H	I	L	м	N	P	Q	R	S	T	v	Fh1 (daN)	gr.
AL758	1540	173	280	40	54	60	30	45	15	26	60	8	5	M10	8,5	71	168	32	72	1500	1110
AL760	1575	207	315	75	54	60	30	45	15	26	60	8	5	M10	8,5	71	168	32	72	1500	1190

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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 340 daN to 430 daN with Fh from 1000 to 2000 daN for the heavy 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 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. Operating pressure between 2-6 bar. Ambient temperature $-30^{\circ} + 80^{\circ}$ 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 SERIES: Base made of black varnished spheroidal cast iron. Other parts made of galvanized (weldable) steel. Supporting pivots undergo case hardening.

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. The clamping lever can be reworked after dismantling according to the required use.





THE PROXIMITY SWITCHES

are sensors capable of sensing the presence of a magnetic field and report it through an electric pulse. The tools of the magnetic pneumatic series are provided with magnetic cylinders that, since they are related by relative proximity switches, provide electric command and/or control impulses as they work. Since it is equipped with luminous LEDs, 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 annuls the effects of the capacity of the cable. DC positive pole is always 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 feel a signal at a speed of 1 m/s.

ELECTRICAL DATA					
DC Voltage	3-110 V		and the second sec	10000	
AC Voltage	3-110 V	- CO1			
Current at 25°	0.3 A	100	a		
Power	10 VA		a La		
Connection time	0.6 mS				Constant of
Disconnection time	0.1 mS				
Connection point	110 Gauss				
Disconnection point	60 Gauss		Martin Contraction		and the fi
Electrical life (pulses)	107		and the second s	A CONTRACTOR	
Contact resistance	0.1 Ohm				
ELECTRICAL DATA					
DC Voltage	3-110V				
AC Voltage	3-110 V				
Current at 25°	200 mA				
Power	6 w				A
Connection time	0.5 mS		0.0		
Disconnection time	0.1 mS			a : _	
Connection point	110 Gauss			3	
Disconnection point	60 Gauss				
Electrical life (pulses)	107				
Contact resistance	0.1 Ohm			A	and the second se
Voltage drop	< 3	<u>r</u>		A RED	and the same
V Nominal operating point	nt 25-30 A		(Can)	and the second	-
T Operating frequency	Max. 500 Hz			a contraction of the second se	- Aller













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 76)

The proximity switches must be ordered separately.

Spindles: To be ordered separately (see Accessories on page 76)

Features and applications: 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 10.







Description	Magnetic Version Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	0	P	Q	R	S	T	Fh1 (daN)	Fh2 (daN)	Fs1 (daN)	Fs2 (daN)	gr.
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	70	145	50	75	500
70/EP3			163	51,5	21	38	42	92	24	15	6,5÷7		11	4	4	M5	4,5	1/8"		45	70	145	50	75	500
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	160	300	70	120	700
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	300	70	120	700
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	220	350	90	150	1070
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	350	90	150	1070
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	270	450	120	240	2100
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	450	120	240	2100
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	300	640	140	260	3100
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	640	140	260	3100
	Description 70/AP3 70/EP3 125/AP3 125/EP3 200/AP3 200/EP3 300/AP3 400/AP3 400/AP3	Magnetic Version Code 70/AP3 70/EP3 125/AP3 125/EP3 200/AP3 A0162 200/AP3 A0167 300/AP3 A0202 300/EP3 A0207 400/AP3 400/EP3 A0307	Magnetic Version Code Description 70/AP3 Description 70/EP3 - 125/AP3 - 125/EP3 - 200/AP3 A0162 200/APM 200/EP3 A0167 200/EPM 300/AP3 A0202 300/APM 300/EP3 A0207 300/EPM 400/AP3 A0302 400/APM 400/EP3 A0307 400/EPM	Magnetic Code Description A 70/AP3	Magnetic Code Description A B 70/AP3 163 51,5 70/EP3 163 51,5 125/AP3 200 70,5 125/AP3 201 70,5 125/EP3 200/APM 246 79 200/AP3 A0162 200/APM 248 79 300/AP3 A0202 300/APM 304,5 98 300/AP3 A0302 400/APM 360 107,5 400/AP3 A0307 400/EPM 362 107,5	Magnetic Code Description A B C 70/AP3 163 51,5 21 70/EP3 163 51,5 21 70/EP3 163 51,5 21 125/AP3 200 70,5 30 125/EP3 201 70,5 30 200/AP3 A0162 200/APM 246 79 36 200/EP3 A0167 200/EPM 248 79 36 300/AP3 A0202 300/APM 304,5 98 48 300/AP3 A0202 300/APM 304,5 98 48 400/AP3 A0302 400/APM 360 107,5 51 400/EP3 A0307 400/EPM 362 107,5 51	Magnetic Code Description A B C D 70/AP3 163 51,5 21 38 70/EP3 163 51,5 21 38 70/EP3 200 70,5 30 50 125/AP3 200 70,5 30 51 200/AP3 A0162 200/APM 246 79 36 67,5 200/EP3 A0167 200/EPM 248 79 36 69,5 300/AP3 A0202 300/APM 304,5 98 48 80 300/EP3 A0207 300/EPM 360 98 48 80 400/AP3 A0302 400/APM 360 107,5 51 110	Magnetic Code Description Code A B C D E 70/AP3 163 51,5 21 38 42 70/AP3 163 51,5 21 38 42 70/EP3 163 51,5 21 38 42 125/AP3 200 70,5 30 50 47,5 125/EP3 201 70,5 30 51 47,5 200/AP3 A0162 200/APM 246 79 36 67,5 53 200/EP3 A0167 200/EPM 248 79 36 67,5 53 300/AP3 A0202 300/APM 304,5 98 48 74 300/AP3 A0207 300/EPM 304 98 48 74 300/AP3 A0202 300/APM 306 98 48 80 74 400/AP3 A0302 400/APM 360 107,5 51 110 74 <	Magnetic Code Description Code A B C D E F 70/AP3 163 51,5 21 38 42 92 70/AP3 163 51,5 21 38 42 92 70/EP3 2 202 70,5 21 38 42 92 125/AP3 2 200 70,5 20 50 47,5 150 125/AP3 2 201 70,5 30 51 47,5 150 125/EP3 2 200/APM 246 79 36 67,5 53 160 200/AP3 A0162 200/APM 248 79 36 67,5 53 160 200/EP3 A0167 200/EPM 248 79 36 67,5 53 160 300/AP3 A0202 300/APM 304,5 98 48 80 74 195,5 400/AP3 A0302 400/APM	Magnetic Code Description Code A B C D E F G 70/AP3 163 51,5 21 38 42 92 24 70/AP3 163 51,5 21 38 42 92 24 70/AP3 163 51,5 21 38 42 92 24 70/EP3 160 200 70,5 30 50 47,5 150 29 125/AP3 200 70,5 30 51 41 51 51 21 38 42 92 24 125/AP3 200 70,5 30 50 47,5 150 29 200/AP3 A0162 200/APM 246 79 36 67,5 53 160 32 200/EP3 A0167 200/APM 304,5 78 48 74 195,5 46 300/AP3 A0207 300/APM 306 98	Magnetic Code Description Code A B C D E F G H 70/AP3 - 163 51,5 21 38 42 92 24 15 70/AP3 - 163 51,5 21 38 42 92 24 15 70/AP3 - - 200 70,5 30 50 47,5 150 29 19 125/AP3 - 200 70,5 30 51 47,5 150 29 19 125/AP3 - 200 70,5 30 51 47,5 150 29 19 125/AP3 - 200 70,5 30 51 47,5 150 29 19 125/AP3 A0162 200/APM 246 79 36 67,5 53 160 32 20 200/AP3 A0202 300/APM 304,5 78 48 74	Magnetic Code Description Code A B C D E F G H I 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 70/EP3 - - 200 70,5 30 50 47,5 150 29 19 8÷11,2 125/AP3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 125/AP3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 125/AP3 - 200/APM 246 79 36 67,5 53 160 32 10 11,5÷12 200/AP3 A0162 200/APM 246 79 36 67,5 53 160 32 2	Magnetic Code Description Code A B C D E F G H I L 70/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 70/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 70/EP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 125/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 125/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 125/AP3 163 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 125/EP3 200/APM 246 79 36 67,5 53 160 32 11,5÷12 8,5 200/	Magnetic Code Description Code A B C D E F G H I L M 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 70/EP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,1 11 125/AP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 125/AP3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,2 14 125/EP3 - 200/APM 246 79 36 67,5 53 160 32 11,5÷12 8,5 18 <th>Description Code Description Code A B C D E F G H I L M N 70/AP3 1 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/AP3 1 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/EP3 1 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 125/AP3 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 125/EP3 201 70,5 30 61,5 53 160 32 20 11,5÷12 8,5 18 5,5 200/AP3 A0167 200/APM 246 79 36 67,5 53 160</th> <th>Description Code Description Code A B C D E F G H I L M N O 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/EP3 - - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 125/AP3 - - 103 50 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 125/EP3 - 200 70,5 30 61 32 10 1,5:12 8,5 16 5,5 200/AP3 A0162 200/APM 246 79 36 67,5</th> <th>Description Code Description Description A B C D E F G H I L M N O P 70/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 70/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 70/EP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 M5 125/AP3 160 20 16,5 5,7 16 14 4,5 M6 125/P3 160 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 125/PF3 200/APM 246 79 36 67,5 53 160 32 11,5+12</th> <th>Description Code Description Code A B C D E F G H I L M N O P Q 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 4,5 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4,5 4,5 70/EP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 - M6 5,5 125/P3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,4 4,5 - M6 5,5 200/AP3 A0162 200/APM 246 79 36 67,5 33 160 32 20</th> <th>Description Code Description Code A B C D E F G H I L M N O P Q R 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 4,5 1/8" 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5.1 14 4,5 M6 4,5 1/8" 70/EP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 125/EP3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,4 4,5 5. M6 5,5 1/8" 200/APA A0162 200/APM 246 79 36 <td< th=""><th>Description Code Magnetic Description Code Description Code A B C D E F G H I L M N O P Q R S 70/AP3 </th><th>Magnetic Code Description Code A B C D E F G I L M N O P Q R S T 70/AP3 </th><th>Description Magnetic Code Description A B C D E F G H I L M N O P Q R S T Fh1 (dnN) 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 70 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 11 4 M5 4,5 1/8" 20 45 70 125/AP3 - 201 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 20 46 160 125/AP3 - 201 70,5 30 67,5 53 160 32 11,5÷12 8,5 18 5,5</th><th>Description Magnetic Occde Description Code A B C D E F G H I L M N O P Q R S T Rh1 Rh2 CddN 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 MS 4,5 1/8" 20 45 70 145 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 11 4 4 M5 4,5 1/8" 45 70 145 125/AP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 46 160 300 125/EP3 - 200/APM 246 79 36 67,5 53 160</th><th>Magnetic Code Description Code A B C D E F G H L M N O P Q R S T Fh1 (daN) Fh2 (daN) Fs1 (daN) 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 M5 4,5 1/8" 20 45 70 145 50 70/EP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 51 11 4 4 M5 4,5 1/8" 45 70 145 50 125/AP3 - 200 70,5 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 40 50 160 300 70 125/EP3 - 200/APM 246 79<!--</th--><th>Description Magnetic Code Description A B C D E F G H L M N O P Q R S T Rh1 F12 GdNV GdNV</th></th></td<></th>	Description Code Description Code A B C D E F G H I L M N 70/AP3 1 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/AP3 1 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/EP3 1 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 125/AP3 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 125/EP3 201 70,5 30 61,5 53 160 32 20 11,5÷12 8,5 18 5,5 200/AP3 A0167 200/APM 246 79 36 67,5 53 160	Description Code Description Code A B C D E F G H I L M N O 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 70/EP3 - - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 125/AP3 - - 103 50 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 125/EP3 - 200 70,5 30 61 32 10 1,5:12 8,5 16 5,5 200/AP3 A0162 200/APM 246 79 36 67,5	Description Code Description Description A B C D E F G H I L M N O P 70/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 70/AP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 70/EP3 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 M5 125/AP3 160 20 16,5 5,7 16 14 4,5 M6 125/P3 160 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 125/PF3 200/APM 246 79 36 67,5 53 160 32 11,5+12	Description Code Description Code A B C D E F G H I L M N O P Q 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 4,5 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4,5 4,5 70/EP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 - M6 5,5 125/P3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,4 4,5 - M6 5,5 200/AP3 A0162 200/APM 246 79 36 67,5 33 160 32 20	Description Code Description Code A B C D E F G H I L M N O P Q R 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 M5 4,5 1/8" 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5.1 14 4,5 M6 4,5 1/8" 70/EP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 125/EP3 - 201 70,5 30 51 47,5 150 29 19 8÷11,2 6,4 4,5 5. M6 5,5 1/8" 200/APA A0162 200/APM 246 79 36 <td< th=""><th>Description Code Magnetic Description Code Description Code A B C D E F G H I L M N O P Q R S 70/AP3 </th><th>Magnetic Code Description Code A B C D E F G I L M N O P Q R S T 70/AP3 </th><th>Description Magnetic Code Description A B C D E F G H I L M N O P Q R S T Fh1 (dnN) 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 70 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 11 4 M5 4,5 1/8" 20 45 70 125/AP3 - 201 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 20 46 160 125/AP3 - 201 70,5 30 67,5 53 160 32 11,5÷12 8,5 18 5,5</th><th>Description Magnetic Occde Description Code A B C D E F G H I L M N O P Q R S T Rh1 Rh2 CddN 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 MS 4,5 1/8" 20 45 70 145 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 11 4 4 M5 4,5 1/8" 45 70 145 125/AP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 46 160 300 125/EP3 - 200/APM 246 79 36 67,5 53 160</th><th>Magnetic Code Description Code A B C D E F G H L M N O P Q R S T Fh1 (daN) Fh2 (daN) Fs1 (daN) 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 M5 4,5 1/8" 20 45 70 145 50 70/EP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 51 11 4 4 M5 4,5 1/8" 45 70 145 50 125/AP3 - 200 70,5 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 40 50 160 300 70 125/EP3 - 200/APM 246 79<!--</th--><th>Description Magnetic Code Description A B C D E F G H L M N O P Q R S T Rh1 F12 GdNV GdNV</th></th></td<>	Description Code Magnetic Description Code Description Code A B C D E F G H I L M N O P Q R S 70/AP3	Magnetic Code Description Code A B C D E F G I L M N O P Q R S T 70/AP3	Description Magnetic Code Description A B C D E F G H I L M N O P Q R S T Fh1 (dnN) 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 70 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 11 4 M5 4,5 1/8" 20 45 70 125/AP3 - 201 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 20 46 160 125/AP3 - 201 70,5 30 67,5 53 160 32 11,5÷12 8,5 18 5,5	Description Magnetic Occde Description Code A B C D E F G H I L M N O P Q R S T Rh1 Rh2 CddN 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 MS 4,5 1/8" 20 45 70 145 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 11 4 4 M5 4,5 1/8" 45 70 145 125/AP3 - 200 70,5 30 50 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 46 160 300 125/EP3 - 200/APM 246 79 36 67,5 53 160	Magnetic Code Description Code A B C D E F G H L M N O P Q R S T Fh1 (daN) Fh2 (daN) Fs1 (daN) 70/AP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 5,2 11 4 4 M5 4,5 1/8" 20 45 70 145 50 70/EP3 - 163 51,5 21 38 42 92 24 15 6,5÷7 51 11 4 4 M5 4,5 1/8" 45 70 145 50 125/AP3 - 200 70,5 30 51 47,5 150 29 19 8÷11,2 6,2 14 4,5 M6 5,5 1/8" 40 50 160 300 70 125/EP3 - 200/APM 246 79 </th <th>Description Magnetic Code Description A B C D E F G H L M N O P Q R S T Rh1 F12 GdNV GdNV</th>	Description Magnetic Code Description A B C D E F G H L M N O P Q R S T Rh1 F12 GdNV GdNV





LIGHT PNEUMATIC SERIES

The sizes of this series are also produced for Magnetic performance and are shown in the table below (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 76) The proximity switches must be ordered separately.

Spindles: To be ordered separately (see Accessories on page 76)

Features and applications: 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 12.

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APV3

FORM







FORM EPV3

Code	Description	Magnetic Version Code	Description	A	B	c	D	E	G	H	I	L	M	N	0	P	Q	R	S	T	U (Fh1 (daN)	Fh2 (daN)	Fs 1 (daN)	Fs2 (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″	160	250	90	150	1200
AO186	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	250	90	150	1200
A0221	300/APV3	A0222	300/APVM	186	258	108	71	60,5	30	28		10,3	20	3	42	M10	8,5	30	50	68,5 1/	′4″	240	370	120	240	2450
AO226	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	370	120	240	2450
AVLLU	000/11/0	RULLI	000/ 11 111	107,5	230	100	12,5	00,5	00	20	0		20	0		mil	0,5	00	50	00,5 1/	1	210	070	120	210	2150



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LIGHT PNEUMATIC SERIES

Some sizes of this series are also made for Magnetic performance and are reported in the table below (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 **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 76) 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 76)

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 13.

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FORM APV3S FORM EPV3S

Code	Description	Magnetic Version Code	Description	A	B	c	D	E	G	H	I	L	M	N	0	P	Q	R	s	T	U	Fh1 (daN)	Fh2 (daN)	Fs 1 (daN)	Fs2 (daN)	gr.
AO184	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″	160	250	90	150	1200
AO189	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	250	90	150	1200
AO224	300/APV3S	A0225	300/APVMS	186	360	108	71	60,5	30	28		10,3	20	3	42	M10	8,5	30	50	68,5	1/4″	240	370	120	240	2450
AO229	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	370	120	240	2450





HEAVY PNEUMATIC SERIES

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

Cylinder: Magnetic ISO standards (see introduction on page 65)

Maximum operating pressure 10 bar. Maximum

operating temperature 80°C

Model AU470 is the reed switch for detecting the position (See Accessories on page 76) 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-reducer-lubricator 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	B	C	D	E	F	G	H	I	L	Μ	N	0	P	Q	R	Fh (daN)	Fs (daN)	gr.
A0600	1000/EPM	410	146,5	80	80	90	155	65	65	12,5	25	20	13	48	102	10,5	1/4″	1000	320	6500
AO620	2000/EPM	487	171,5	90	100	100	176	70	70	15	35	20	13	56	112	10,5	3/8″	2000	380	9500









Code	Description	A	B	c	D	E	F	G	H	I.	L	м	N	0	P	Q	R	Fh (daN)	Fs (daN)	gr.
A0605	1000/EPVM	215	355		80	90	80	50	50	130	25	20	13	102		10,5	1/4″	1000	340	6500
A0625	2000/EPVM	246,5	424	45	100	100	90	54	58	157	35	20	14	112	45	13	3/8″	2000	432	9000





PUSH HEAVY 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. Max. 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 76) The proximity switches must be ordered separately.

Spindles: To be ordered separately (see Accessories on page 76)

Features and applications: 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 39.







Code	Description	Magnetic Version Code	Description	A	B	c	D	E	F	G	н	I	L	M	N	0	P	Q	R	S	*	Fh (daN)	Fs (daN)	gr.
AO350	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
AO361	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	51,5	16	8,5	12	1/4″	32	1600	410	2400
AO381	2100/SP3	A0382	2100/SPM	468,5	100	38,5	61,5	81	231	50	50	50	35	M12	22	64,5	20	8,5	13	1/4″	45	2500	607	5000



ACCESSORIES





Hexagonal head spindle with 2 nuts. ALSO IN STAINLESS STEEL (See table)

Code	Description	Stainless steel Code	Stainless steel	A	В	D
AU099	10099	AU509	50099	20	3	M4
AU100	10100	AU510	50100	35	3	M5
AU101	10101	AU511	50101	45	3,5	M6
AU102	10102	AU512	50102	55	4	M8
AU103	10103			65	5,5	M10
AU104	10104			80	7	M12
AU105	10105			120	8	M12



Spindle with head covered in neoprene and 2 nuts. ALSO IN STAINLESS STEEL (See table)

Code	Description	Stainless steel Code	Stainless steel	A	B	D	F
AU140	10140	AU540	50140	45	11	M5	10
AU141	10141	AU541	50141	55	12	M6	13
AU142	10142	AU542	50142	68	16	M8	16
AU143	10143			80	20	M10	20







Head joint spindle and 2 nuts. ALSO IN STAINLESS STEEL (See table)

Code	Description	Stainless steel Code	Stainless steel	A	B	D	F
AU120	10120	AU520	50120	36	9,5	M5	14
AU121	10121	AU521	50121	45	10	M6	16
AU122	10122	AU522	50122	65	12	M8	18
AU123	10123			75	14	M10	20
AU124	10124			85	16	M12	24
AU125	10125			125	16	M12	24



ACCESSORIES





Spring spindle.

Code	Description	A	B	D	F
AU128	10128	45	13	M5	10
AU129	10129	50	15	M6	13
AU130	10130	70	17	M8	15
AU131	10131	85	20	M10	18
AU132	10132	106	24	M12	21
FH (daN) 🚟 I				_	
	M12				
>r	M 10	1			
14	M8	100	<u></u>	-	
·¥	Sec.		~	•	
× .	M6 M5		200		
				S (m/m)	
	M10 M8 M6 M5	////		S (m/m)	

Neoprene cap for hexagonal head spindles.

Code	Description	A	F	P	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







Neoprene cap with threaded insert.

Code	Description	A	F	P	For spindle
AU200	1200	11	12	8,5	M5
AU201	1201	14	15	10	M6
AU202	1202	18	19	12,3	M8
AU203	1203	23,5	24	16,5	M10
AU204	1204	26	26	17,5	M12



ACCESSORIES







Proximity switches.



AU450 for models 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 360/SPM - 1100/SPM

AU470 for models 1000/EPM/EPVM

2000/EPM/EPVM

Ergonomic handle

1	Code	Description	
	AU150	10150	50/ASD-ASS 70/AS-ASD-ASS "Also for th
	AU151	10151	120/AS 130/A-B-E-F-MF 130/M-N- "Also for th
	AU152	10152	165/AS 200/AVF-EVF 200/APV3 "Also for th
	AU153	10153	200/AV-EV-T-TF 300/APV3S-EPV3S-AP
	AU154	10154	300/AV-EV-T-TF 340/AS 355/M-N-O-P "Also for th
	AU155	10155	400/T-TF 455/M-N-(
	AU156	10156	1000/
	AU157	10157	
	AU158	10158	10
	AU159	10159	230/ML-NL-OL-PL "Als

10161

AU161



Used for series S 80/AS 75/A-B-E-F-MF-M-N-O-P-ML-NL-OL-PL 1e Stainless steel series" -O-P-ML-NL-OL-PL 360/AS LLA01 LLB01 LLE01 LLF01 ne Stainless steel series" S-EPV3S-APVMS-EPVMS 230/A-B-E-F 230/M-N-O-P he Stainless steel series" VMS-EPVMS-AVF-EVF-AS 330/A-B-E-F 550/AS-ASD-ASS P-MF 430/A-B-E-F 1100/AS LLA02 LLE02 LLB02 LLF02 he Stainless steel series" 0-P 530/A-B-E-F 2100/AS 3100/AS F 2000/F LLE03 LLF03 3000/F 60/AS/ASD/ASS so for the Stainless steel series" AU160 10160 355/ML-NL-OL-PL

455/ML-NL-OL-PL

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ALSO IN STAINLESS STEEL (See table)								
Code	Description	Stainless steel Code	Stainless steel	Used for series	For spindle			
AU205	20105	AU505	50105	25	M4			
AU206	20106	AU506	50106	70-75	M5			
AU207	20107	AU507	50107	125-130	M6			
AU208	20108	AU508	50108	200-230	M8			
AU209	20109			300-330-355	M10			
AU210	20110			400-430-455-530	M12			
AU211	20111			LLO1	M6			
AU212	20112			LLO2	M10			

Bended washer.



Bolt retainer band ALSO IN STAINLESS STEEL (See table)

Code	Description	Stainless steel Code	Stainless steel	Used for series	For spindle
AU180	10180	AU580	50180	70-75	M5
AU181	10181	AU581	50181	125	M6
AU182	10182	AU582	50182	200-230	M8
AU183	10183			300	M10
AU184	10184			330-355	M12
AU185	10185			400	M12
AU186	10186			430-455	M12
AU189	10189			130	M6
AU190	10190			530	M12





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