

Self-centering Vise MP 2-Jaws

MP is a self-centering vise with wedge-hook mechanism and pneumatic drive for cycle time reduction. Used on machine tools and industrial equipments to clamp the workpiece with high precision. Also used on assembly machines for part clamping.

Advantages

- Precise wedge-hook mechanism allows machining accuracy
- High force drive for secure clamping
- Extended clamping range with long jaw guidance
- Optimum jaw guides (hardened, sturdy, low-backlash) allow high clamping forces and a long service life
- Lean outer contour for optimal accessibility of the machine spindle to the workpiece
- Optimized lubrication system for consistently high clamping forces and long life
- Base jaws with grooves for tongues
- All functional parts are hardened and ground to ensure a high repeatability



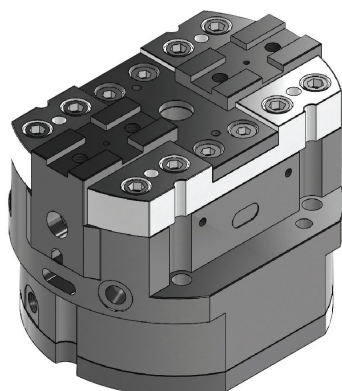
SPECIFICATIONS

Model	Stroke per jaw	Closing force per jaw @ 9 bar	Total closing force @ 9 bar	Pressure	Repeatability	Fluid consumption double stroke	Weight
MP85	2.5 mm	2938 N	5875 N	6-9 bar	±0.01 mm	63.87 cm ³	2 Kg
	0.10 in	660.42 lb	1320.84 lb	87-130 psi	±0.0004 in	3.90 in ³	4.41 lb
MP110	2.25 mm	6232 N	12464 N	6-9 bar	±0.01 mm	125.13 cm ³	4.4 Kg
	0.09 in	1401.09 lb	2802.18 lb	87-130 psi	±0.0004 in	7.64 in ³	9.70 lb
MP140	3 mm	9695 N	19391 N	6-9 bar	±0.01 mm	248.55 cm ³	8.6 Kg
	0.12 in	2179.72 lb	4359.44 lb	87-130 psi	±0.0004 in	15.17 in ³	18.96 lb
MP170	3 mm	17894 N	35789 N	6-9 bar	±0.01 mm	491.74 cm ³	15.1 Kg
	0.12 in	4022.99 lb	8045.97 lb	87-130 psi	±0.0004 in	30.01 in ³	33.29 lb

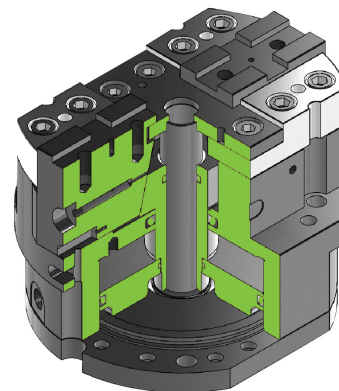
Ambient Temperature **5 - 60 °C (41 - 140 °F)**

Noise Emission (Sound Pressure) **≤ 70 dB(A) in any direction or notification.**

SECTIONAL DIAGRAM

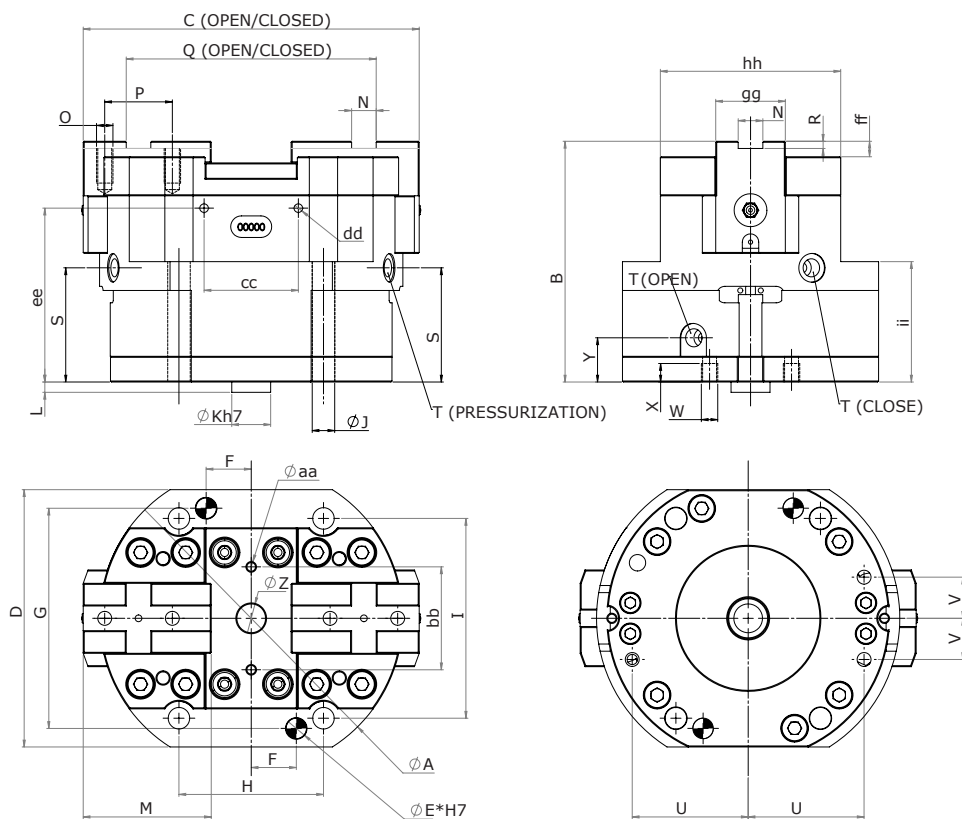


For a better operation of the vise
please consider the distance between the clamping point
and the top surface of the jaws.



PRODUCT INFORMATION

MP 2-Jaws



* Finished holes on request

	A	B	Stroke C open	Stroke C closed	D	E	F	G	H	I	J	K	L	M	N	O	P	Stroke Q open	Stroke Q closed
MP 85	90 (3.54)	73 (2.87)	97.3 (3.83)	92 (3.62)	77 (3.03)	6 (0.24)	13 (0.51)	65 (2.56)	42.32 (1.67)	58.25 (2.29)	6.5 (0.26)	14 (0.55)	5.5 (0.22)	37.1 (1.46)	8 (0.31)	M6	20 (0.79)	70.8 (2.79)	65.8 (2.59)
MP 110	118 (4.65)	91 (3.58)	124.5 (4.90)	120 (4.72)	100 (3.94)	8 (0.31)	18 (0.71)	86 (3.39)	55.84 (2.20)	76.86 (3.03)	9 (0.35)	16 (0.63)	5.5 (0.22)	45 (1.77)	10 (0.39)	M8	25 (0.98)	92.5 (3.64)	88 (3.46)
MP 140	148 (5.83)	117 (4.61)	156 (6.14)	150 (5.91)	125 (4.92)	10 (0.39)	22 (0.87)	107 (4.21)	70.53 (2.78)	97.08 (3.82)	11 (0.43)	20 (0.79)	5 (0.20)	56.5 (2.22)	12 (0.47)	M8	33 (1.30)	114 (4.49)	108 (4.25)
MP 170	180 (7.09)	138 (5.43)	187 (7.36)	181 (7.13)	150 (5.91)	10 (0.39)	34 (1.34)	126 (4.96)	99 (3.90)	106 (4.17)	11 (0.43)	25 (0.98)	4.5 (0.18)	69.5 (2.74)	16 (0.63)	M10	40 (1.57)	128.5 (5.06)	122.5 (4.82)

	R	S	T	U	V	W	X	Y	Z	aa	bb	cc	dd	ee	ff	gg	hh	ii
MP 85	3.5 (0.14)	35 (1.38)	M5	33.17 (1.31)	14 (0.55)	M5	5 (0.20)	13 (0.51)	6 (0.24)	M4	26 (1.02)	26 (1.02)	M4	53 (2.09)	4 (0.16)	20 (0.79)	53 (2.09)	38 (1.50)
MP 110	3.5 (0.14)	44.5 (1.75)	1/8" Gas	44 (1.73)	16 (0.63)	M5	7 (0.28)	18 (0.71)	10 (0.39)	M5	36 (1.42)	36 (1.42)	M5	60.5 (2.38)	4.5 (0.18)	26 (1.02)	70 (2.76)	46.5 (1.83)
MP 140	3.5 (0.14)	55.5 (2.19)	1/8" Gas	56.57 (2.23)	20 (0.79)	M8	9 (0.35)	21.5 (0.85)	14 (0.55)	M5	50 (1.97)	46 (1.81)	M5	84.5 (3.33)	7.5 (0.30)	34 (1.34)	88 (3.46)	58.5 (2.30)
MP 170	4 (0.16)	66 (2.60)	1/8" Gas	68 (2.68)	24.5 (0.96)	M8	9 (0.35)	24 (0.94)	19 (0.75)	M5	60 (2.36)	65 (2.56)	M5	98 (3.86)	6 (0.24)	40 (1.57)	105 (4.13)	69 (2.72)

* Dimensions are in millimeters (inches).

** All dimensions are descriptive and subject to variation for technical upgrading. We reserve the right to make variations without prior notification.



Applied Robotics
648 Saratoga Road
Glenville, NY 12302 USA
Tel. +1 518 384 1000 Fax +1.5183841200
info@appliedrobotics.com
www.appliedrobotics.com



EFFECTO GROUP S.p.A.
Via Roma, 141/143
28017 San Maurizio d'Opaglio (NO) - Italy
Tel. +39 0322 96142 Fax +39 0322 967453
info@effectogroup.com
www.effectogroup.com

