

Miniture Power Clamps

01/28/2025



info@cesehsa.com.mx

cesehsa.com.mx



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PC-PPC-1

Miniture Power Clamps

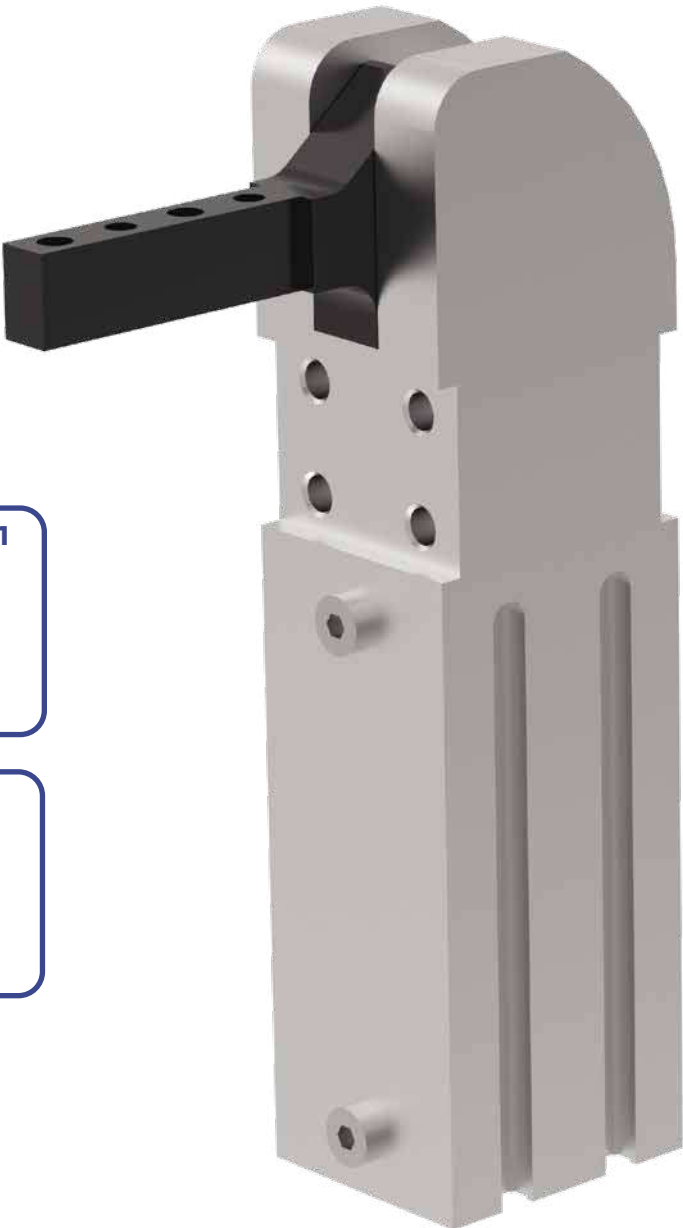
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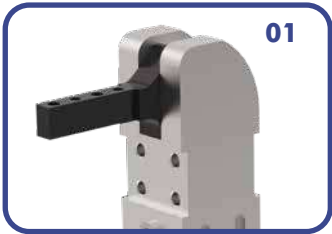
81L

Pneumatic Power Clamps | Miniature | Ordering Information

Size		Arm Style		Design	
Description		Description		Description	
12-1	12 mm Cylinder (M5 Port)	01	Clamping arm, horizontal	00	Standard design
16-1	16 mm Cylinder (M5 Port)	41	Clamping arm, vertical		
20-1	20 mm Cylinder (M5 Port)	See below for further details			
25-1	20 mm Cylinder (M5 Port)				



Arm Style



Accessories

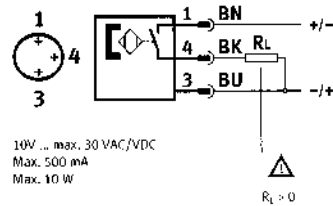
8EA-109-1

Description (order separately)

Sensor, 3-wire cable, M8x1 connector, 3-pin

82ZB-004-1

Adapter for mounting 81L20-1, 81L25-1 to 25mm dia. bar



12

Max Holding Torque
25 Nm [18.4 ft-lb]
Max Clamping Torque
4,5 Nm [3.3 ft-lb]
at 5 bar [72 psi]

16

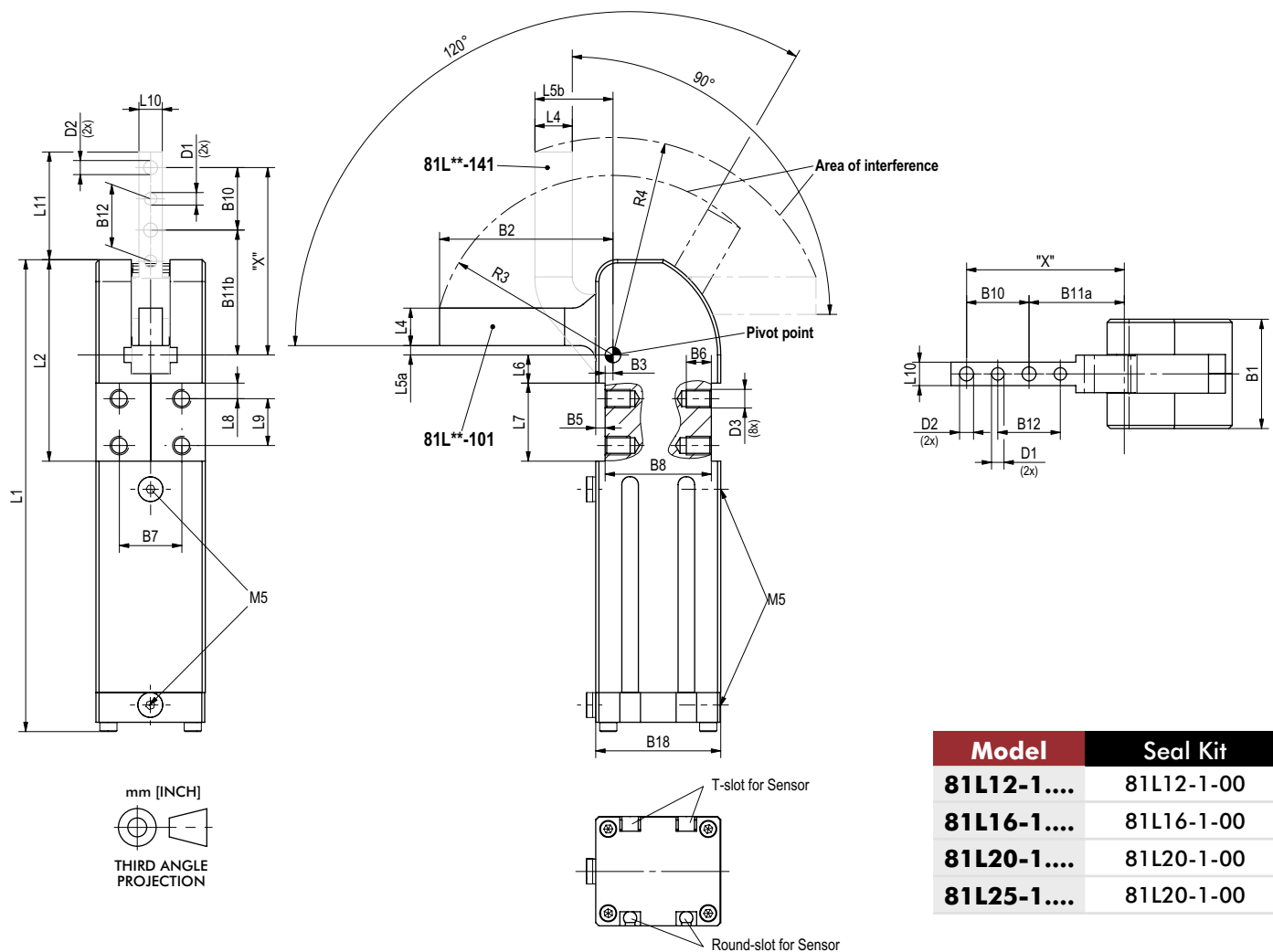
Max Holding Torque
60 Nm [44.3 ft-lb]
Max Clamping Torque
7 Nm [5.2 ft-lb]
at 5 bar [72 psi]

20

Max Holding Torque
100 Nm [73.8 ft-lb]
Max Clamping Torque
18 Nm [13.3 ft-lb]
at 5 bar [72 psi]

25

Max Holding Torque
100 Nm [73.8 ft-lb]
Max Clamping Torque
18 Nm [13.3 ft-lb]
at 5 bar [72 psi]



Model	Seal Kit
81L12-1....	81L12-1-00
81L16-1....	81L16-1-00
81L20-1....	81L20-1-00
81L25-1....	81L20-1-00

Power by compressed air, max. 6 bar Operation with oil-free air is permissible.

Model	D1 Ø [H7]	D2 Ø	D3 Ø	B1	B2	B3 ±0,1	B5 ±0,2	B6	B7 ±0,1	B8 ±0,1	B10 ±0,2	B11a	B11b	B12
81L12-1....	[0.12] 3	[0.13] 3,3	M4	[0.94] 24	[1.57] 40	[0.10] 2,5	[0.06] 1,5	[0.24] 6	[0.59] 15	[0.98] 25	[0.35] 9	[1.06] 27	[1.24] 31,5	[0.35] 9
81L16-1....	[0.12] 3	[0.17] 4,3	M5	[1.12] 30	[1.97] 50	[0.08] 2	[0.08] 2	[0.19] 5	[0.79] 20	[1.02] 26	[0.59] 15	[1.18] 30	[1.56] 39,5	[0.59] 15
81L20-1....	[0.16] 4	[0.18] 4,5	M6	[1.38] 35	[2.12] 55,5	[0.10] 2,5	[0.12] 3	[0.28] 7	[0.79] 20	[1.34] 34	[0.79] 20	[1.20] 30,5	[1.57] 40	[0.79] 20
81L25-1....	[0.16] 4	[0.26] 6,5	M6	[1.38] 35	[2.58] 65,5	[0.10] 2,5	[0.12] 3	[0.28] 7	[0.79] 20	[1.34] 34	[0.79] 20	[1.59] 40,5	[1.97] 50	[0.79] 20

Model	B18	L1 ~	L2	L4	L5a	L5b	L6	L7 ±0,1	L8	L9	L10	L11	R3 ~	R4 ~
81L12-1....	[1.10] 28	[4.09] 104	[1.59] 40,5	[0.28] 7	[0.10] 2,5	[0.7] 17,5	[0.18] 4,5	[0.59] 15	[0.12] 3	[0.35] 9	[0.24] 6	[0.93] 23,5	[1.61] 41	[1.89] 48
81L16-1....	[1.18] 30	[4.69] 119	[1.95] 49,5	[0.35] 9	[0.09] 2,25	[0.8] 20,5	[0.23] 5,75	[0.79] 20	[0.16] 4	[0.47] 12	[0.31] 8	[1.41] 35,75	[2.00] 51	[2.48] 63
81L20-1....	[1.57] 40	[5.94] 151	[2.54] 64,5	[0.47] 12	[0.12] 3	[0.98] 25	[0.35] 9	[0.98] 25	[0.19] 5	[0.59] 15	[0.29] 7,5	[1.36] 34,5	[2.26] 57,5	[2.75] 70
81L25-1....	[1.57] 40	[5.94] 151	[2.54] 64,5	[0.47] 12	[0.12] 3	[0.98] 25	[0.35] 9	[0.98] 25	[0.19] 5	[0.59] 15	[0.47] 12	[1.75] 44,5	[2.64] 67	[3.11] 79

Pneumatic Power Clamps | Miniature | Technical Specifications

Model	Max. Holding Torque Nm [ft-lb]	Max. Clamping Torque at 5 bar [72 psi] Nm [ft-lb]	Weight kg [lbs]	Air Consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Max. Added Load (at Position, "X") g [oz]
81L12-101..	25 [18.4]	4,5 [3.3]	0,16 [0.4]	0,25 [0.01]	50 [1.8]
81L12-141..	20 [14.8]	4,5 [3.3]	0,17 [0.4]	0,25 [0.01]	50 [1.8]
81L16-101..	60 [44]	6,5 [4.8]	0,25 [0.6]	0,27 [0.01]	80 [2.8]
81L16-141..	40 [29.5]	7,0 [5.23]	0,27 [0.6]	0,26 [0.01]	80 [2.8]
81L20-101..	100 [73.8]	18 [13.3]	0,50 [1.1]	0,40 [0.02]	90 [3.2]
81L20-141..	80 [59]	17 [12.5]	0,52 [1.2]	0,35 [0.01]	90 [3.2]
81L25-101..	100 [73.8]	18 [13.3]	0,52 [1.2]	0,40 [0.02]	100 [3.5]
81L25-141..	80 [59]	17 [12.5]	0,54 [1.25]	0,35 [0.01]	100 [3.5]

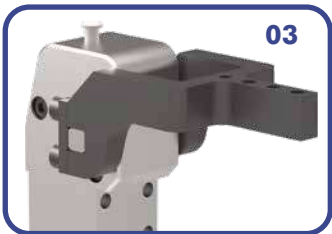
82L...-4...

Enclosed Pneumatic Power Clamps | Miniature | Ordering Information

82L		16-4		03		0	
Size	Description	Arm Style	Description	Opening Angle	Description		
12-4	12 mm Cylinder (M5 Port)	00	No clamping arm	0	105° (Standard)		
16-4	16 mm Cylinder (M5 Port)	03	U-bar, central 90°	3	90°		
20-4	20 mm Cylinder (M5 Port)	43	U-bar, central 180°	4	75°		
25-4	25 mm Cylinder (M5 Port)	See below for further details		5	60°		
				6	45°		
				7	30°		
				8	15°		



Arm Style



Accessories

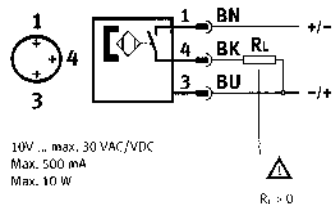
8EA-109-1

82ZB-004-1

Description (order separately)

Sensor, 3-wire cable, M8x1 connector, 3-pin

Adapter for mounting 82L20-4, 82L25-4 to 25mm dia. bar



12

Max Holding Torque
35 Nm [25.8 ft-lb]
Max Clamping Torque

90° version: 10,4 Nm [7.7 ft-lb]
180° version: 8,7 Nm [6.4 ft-lb]
at 5 bar [72 psi]



16

Max Holding Torque
40 Nm [29.5 ft-lb]
Max Clamping Torque

12,4 Nm [9.1 ft-lb]
11 Nm [8.1 ft-lb]
at 5 bar [72 psi]



20

Max Holding Torque
50 Nm [36.9 ft-lb]
Max Clamping Torque

21 Nm [15.5 ft-lb]
19,3 Nm [14.2 ft-lb]
at 5 bar [72 psi]



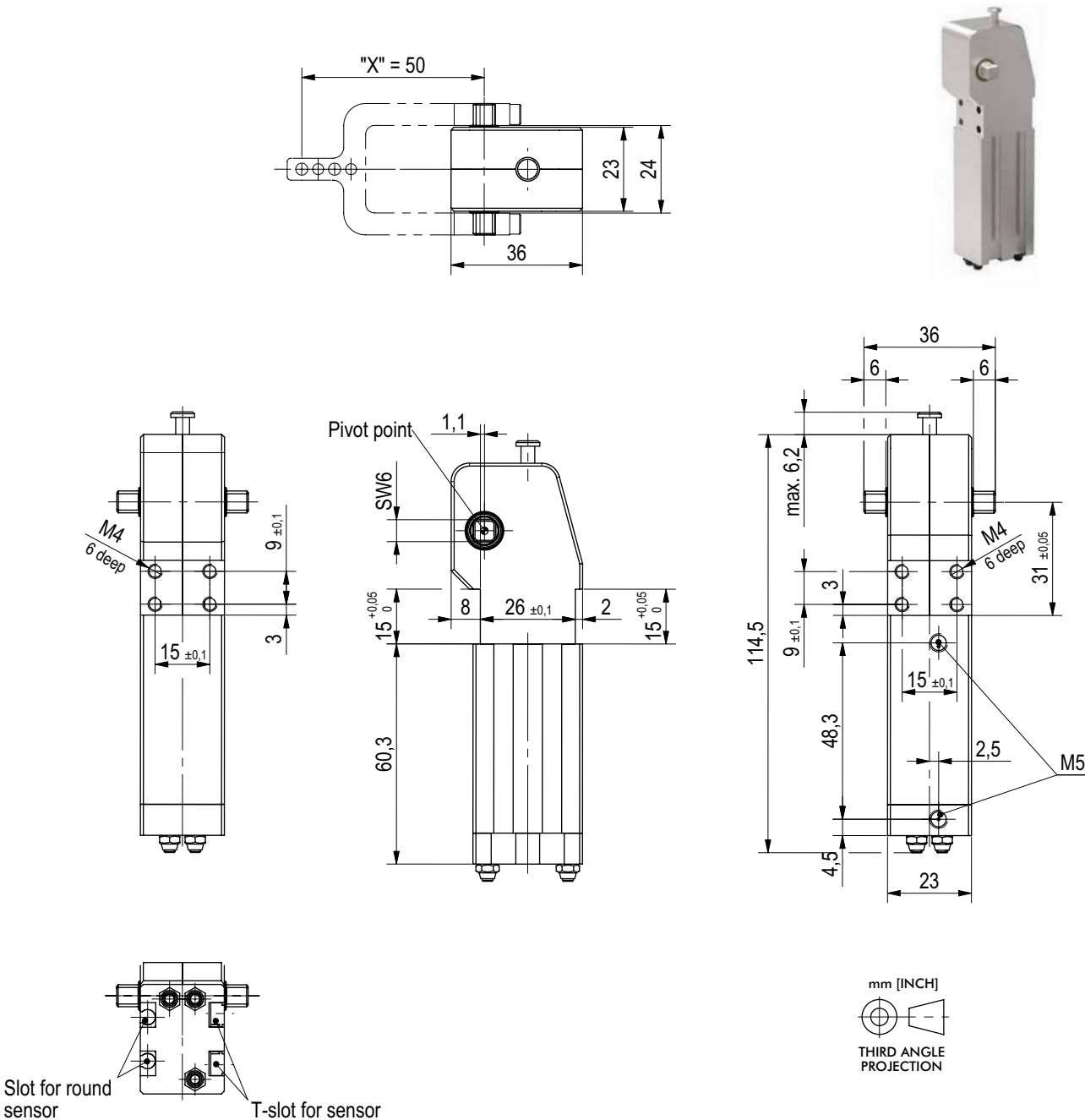
25

Max Holding Torque
80 Nm [59.0 ft-lb]
Max Clamping Torque

31,8 Nm [23.4 ft-lb]
28,5 Nm [21.0 ft-lb]
at 5 bar [72 psi]

82L12-4

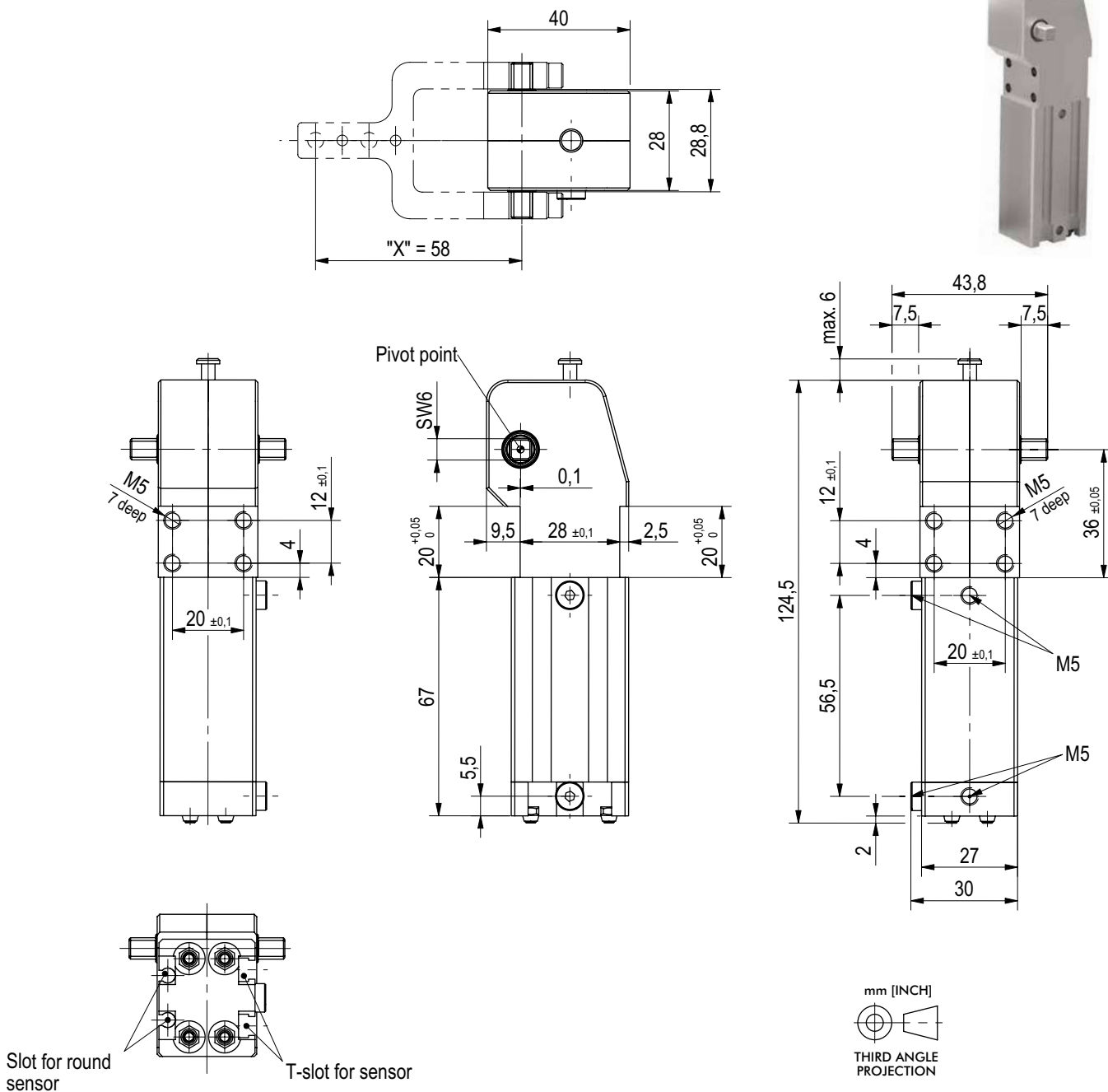
Enclosed Pneumatic Power Clamps | Miniature | Dimensions and Technical Specifications



Power by compressed air, max. 6 bar Operation with oil-free air is permissible.

Model	Max. Holding Torque Nm [ft-lb]	Max. Clamping Torque at 5 bar [72 psi] Nm [ft-lb]	Weight [with arm] kg [lbs]	Air Consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Max. Added Load (at Position "X") g [oz]
82L12-4030	35 [25.8]	10,4 [7.8]	0,23 [0.5]	0,25 [0.01]	50 [1.8]
82L12-4430	35 [25.8]	8,7 [6.4]	0,23 [0.5]	0,25 [0.01]	50 [1.8]

Enclosed Pneumatic Power Clamps | Miniature | Dimensions and Technical Specifications

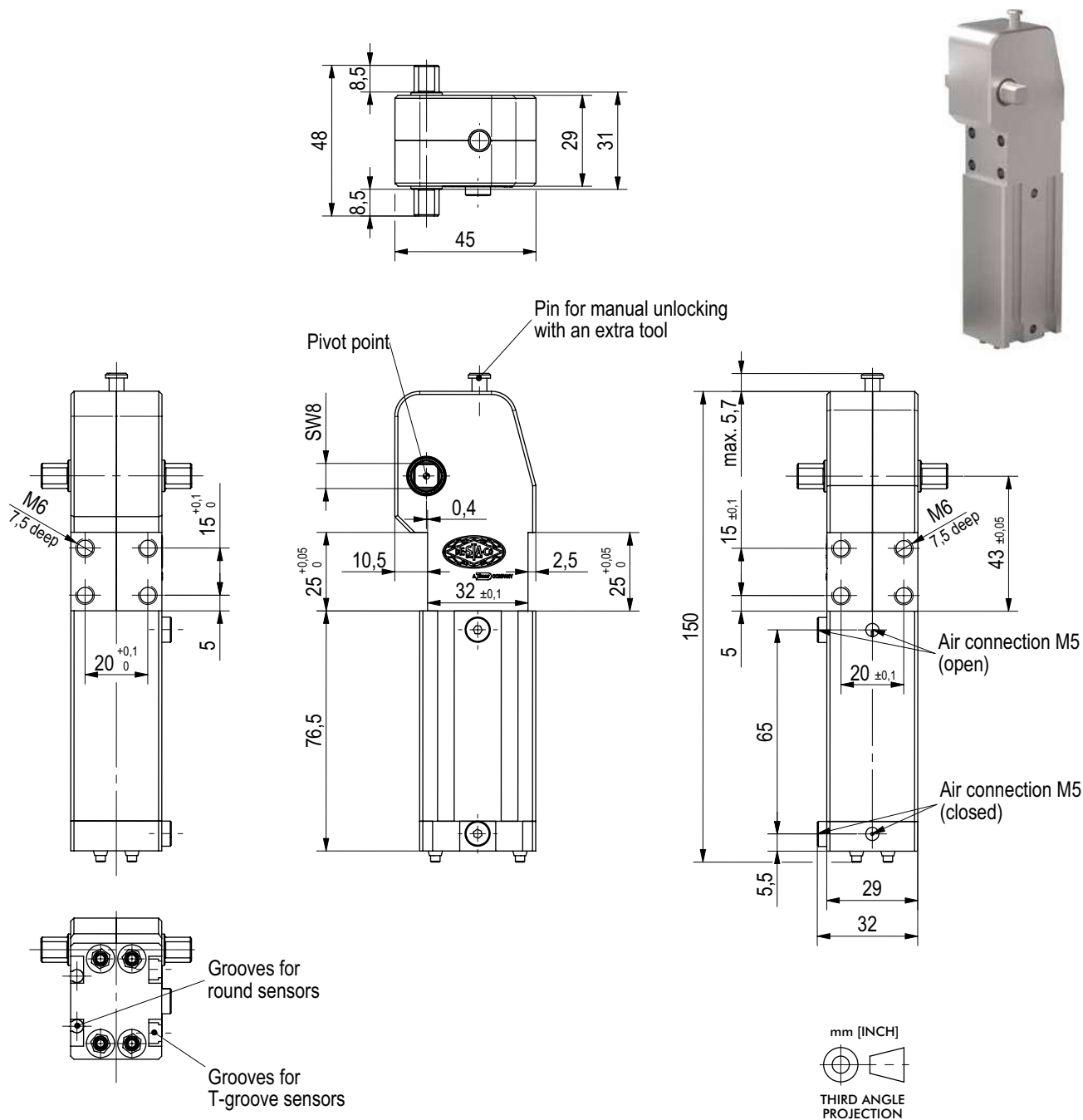


Power by compressed air, max. 6 bar Operation with oil-free air is permissible.

Model	Max. Holding Torque Nm [ft-lb]	Max. Clamping Torque at 5 bar [72 psi] Nm [ft-lb]	Weight [with arm] kg [lbs]	Air Consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Max. Added Load (at Position "X") g [oz]
82L16-4030	40 [29.5]	12,4 [9.4]	0,33 [0.7]	0,27 [0.01]	80 [2.8]
82L16-4430	40 [29.5]	11,0 [8.1]	0,33 [0.7]	0,27 [0.01]	80 [2.8]

82L20-4

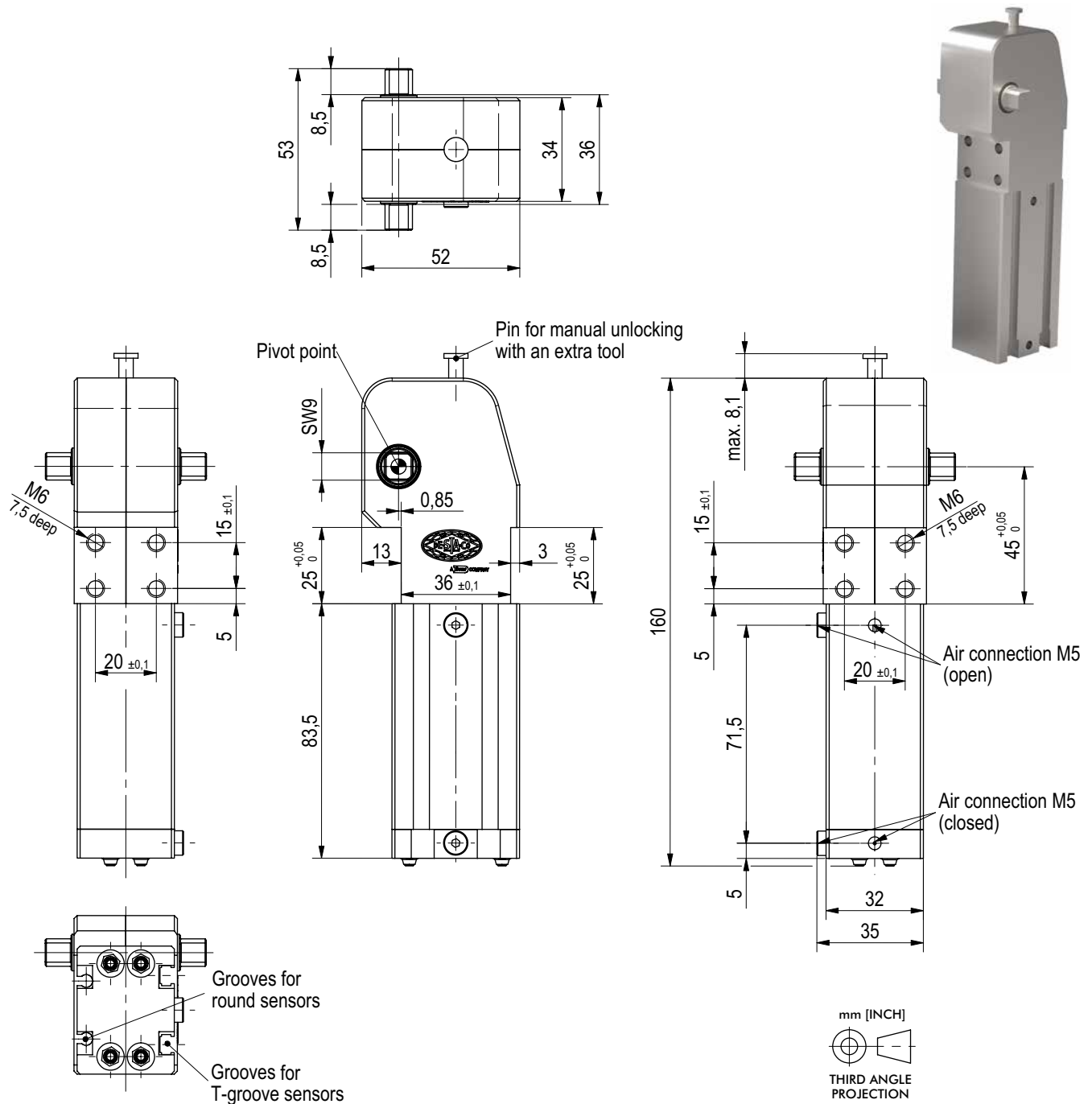
Enclosed Pneumatic Power Clamps | Miniature | Dimensions and Technical Specifications



Power by compressed air, max. 6 bar Operation with oil-free air is permissible.

Model	Max. Holding Torque Nm [ft-lb]	Max. Clamping Torque at 5 bar [72 psi] Nm [ft-lb]	Weight [with arm] kg [lbs]	Air Consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Max. Added Load (at Position "X") g [oz]
82L20-4030	50 [36.9]	21,0 [15.5]	0,42 [0.9]	0,35 [0.01]	90 [3.2]
82L20-4430	50 [36.9]	19,3 [14.3]	0,42 [0.9]	0,35 [0.01]	90 [3.2]

Enclosed Pneumatic Power Clamps | Miniature | Dimensions and Technical Specifications

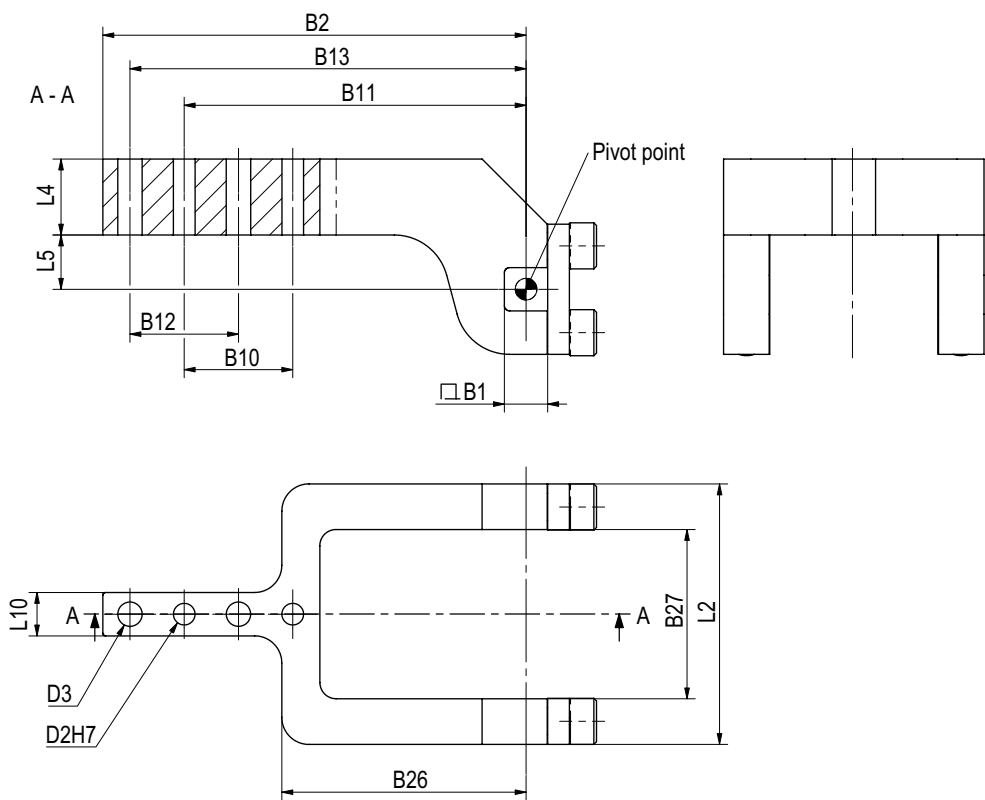


Power by compressed air, max. 6 bar Operation with oil-free air is permissible.

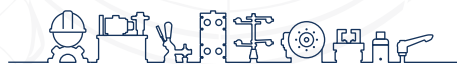
Model	Max. Holding Torque Nm [ft-lb]	Max. Clamping Torque at 5 bar [72 psi] Nm [ft-lb]	Weight [with arm] kg [lbs]	Air Consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Max. Added Load (at Position "X") g [oz]
82L25-4030	80 [59]	31,8 [23.5]	0,66 [1.5]	0,40 [0.01]	100 [3.5]
82L25-4430	80 [59]	28,5 [12.5]	0,66 [1.5]	0,40 [0.01]	100 [3.5]

82L...-4...

Enclosed Pneumatic Power Clamps | Miniature | Clamp Arm Dimensions



Model	Order no. for Arm	Max. Opening angle	B1	B2	B10 ±0,02	B11 ±0,02	B12 ±0,1	B13 ±0,1	B26	B27	D2 H7	D3	L2	L4	L5	L10
82L12-4...	8JG-401-1-01	105°	6	54	9	45.5	9	50	38,5	24	3	3.3	36	7	10	6
82L16-4...	8JG-402-1-01	105°	6	63	15	50.5	15	58	36,5	29	3	4.5	44	9.5	10	10
82L20-4...	8JG-403-1-01	105°	8	78	20	63	20	73	45	31,2	4	4.5	48	14	10	8
82L25-4...	8JG-404-1-01	105°	9	81	20	66	20	76	48	36	4	6.4	53	16	10	12



inf @ /CESEHSA.com.mx

