

82L...-2... SERIES

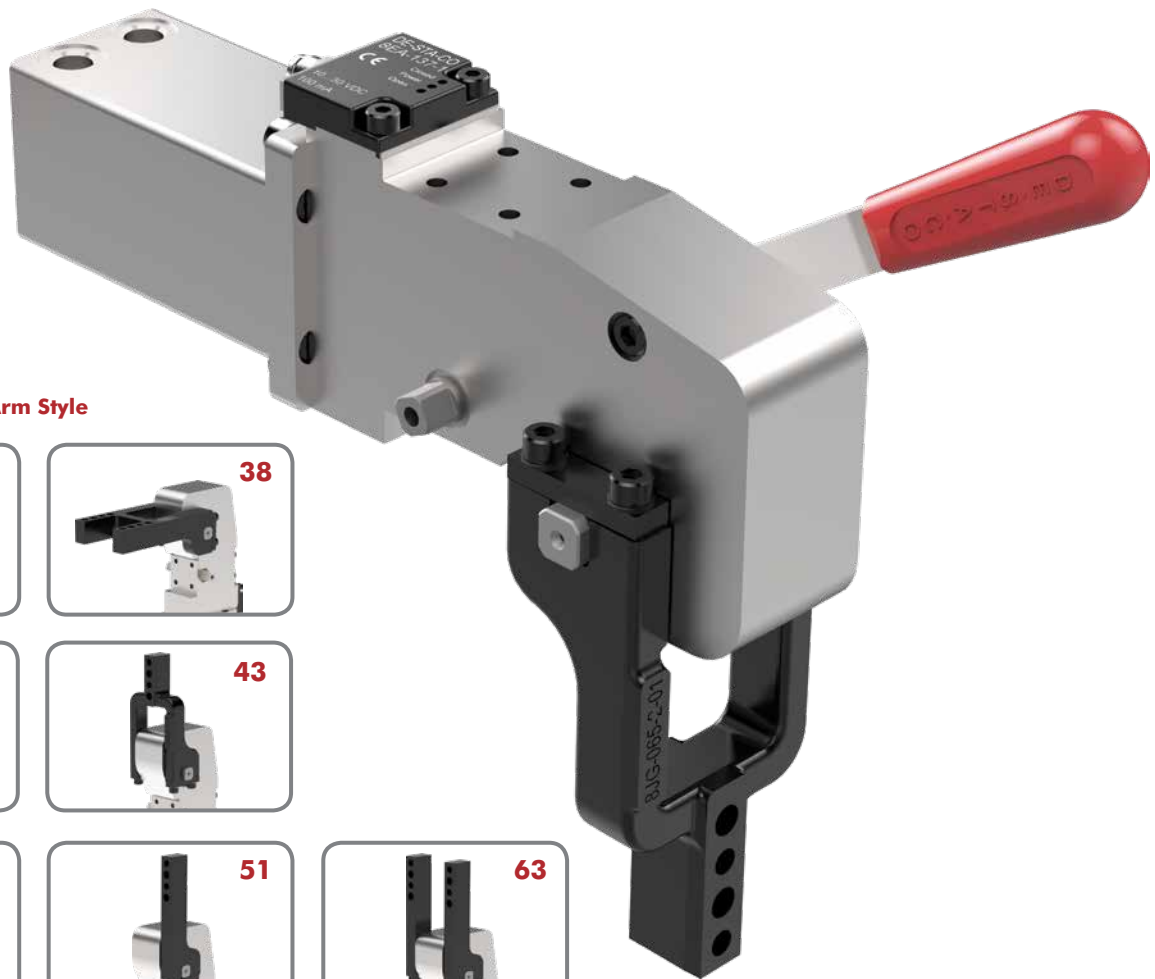
Pneumatic Power Clamps | Ordering Information



Base Model	Size	Description
	2G	Ø25 (G1/8) Cylinder Bore Size
	3G	Ø32 (G1/8) Cylinder Bore Size
	3N	Ø32 (1/8-18 NPT) Cylinder Bore Size
	4G	Ø40 (G1/4) Cylinder Bore Size
	4N	Ø40 (1/4-18 NPT) Cylinder Bore Size

Arm Style	Description
03	U-clamp arm, central 90°
11	Lateral clamp arm, left 90°
12	Lateral clamp arm, right 90°
23	2x lateral clamp arm 90°
38	H-clamp arm 90°
43	U-clamp arm, central 180°
51	Lateral clamp arm, left 180°
52	Lateral clamp arm, right 180°
63	2x lateral clamp arm 180°
78	H-clamp arm 180°

See below for further details



Arm Style



82L..-2... SERIES

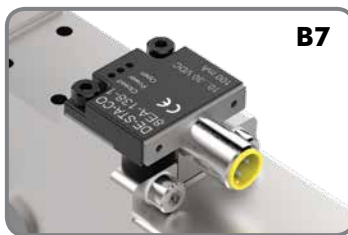
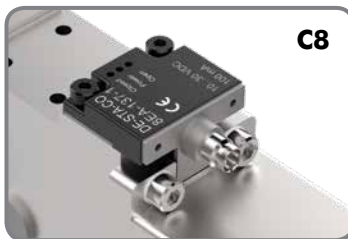
Pneumatic Power Clamps | Ordering Information

Hand Lever	Description
0	No Hand Lever
H	With Hand Lever

Base Model	Description
B	Power clamp without clamping arm. To be marked with an additional "B". Only with clamping arm "03"

Opening Angle	Description
0	105° (Standard)
3	90°
4	75°
5	60°
6	45°
7	30°
8	15°

Sensing	Description
00	No Sensing
C8	8EA-137-1 (M8x1)
B7	8EA-138-1 (M12x1)
B8	8EA-139-1 (M12x1)



2G

Max Holding Torque
75 Nm
Max Clamping Torque
25 Nm at 5bar

3G/N

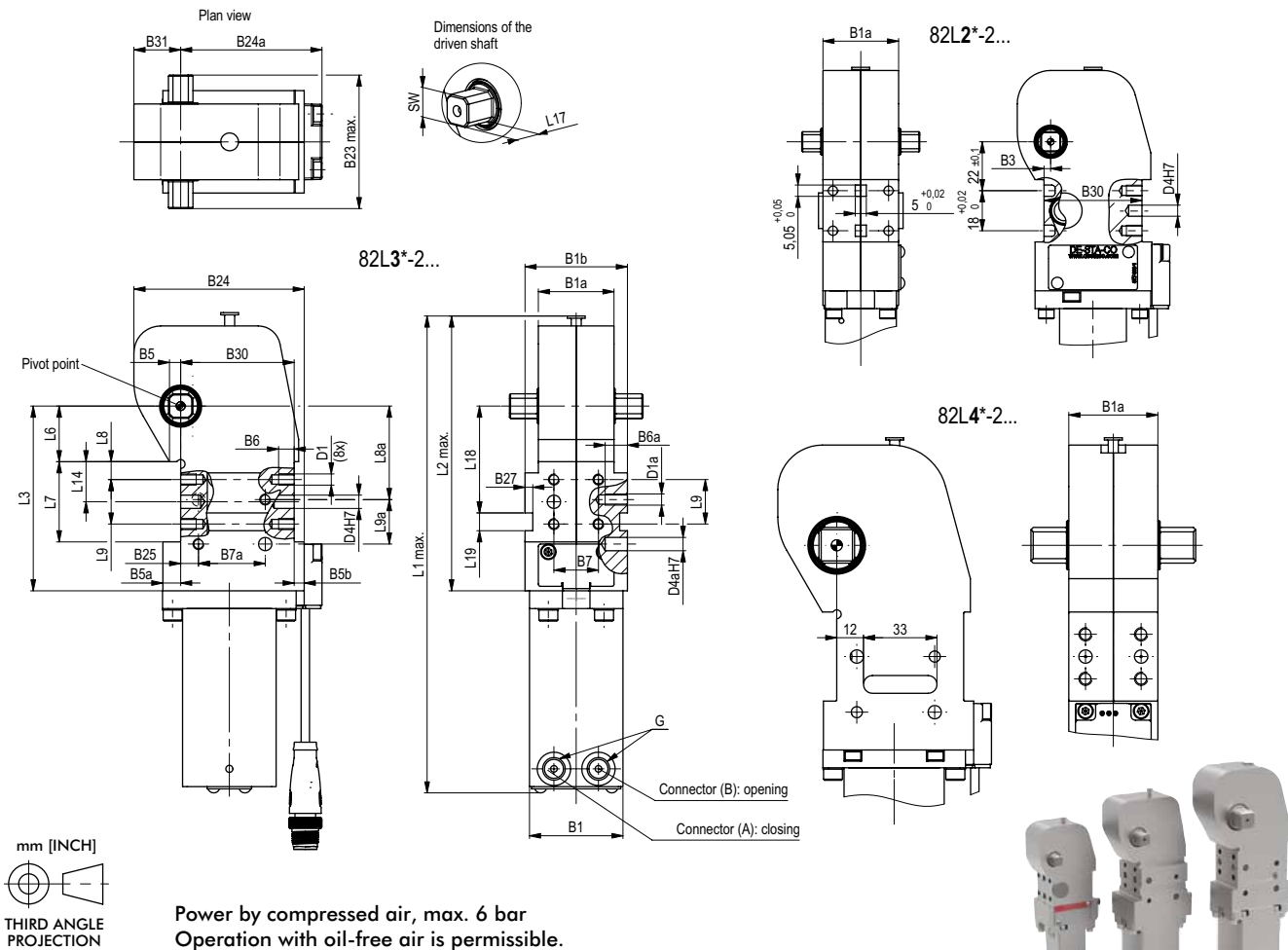
Max Holding Torque
180 Nm
Max Clamping Torque
55 Nm at 5bar

4G/N

Max Holding Torque
380 Nm
Max Clamping Torque
120 Nm at 5bar

82L...-2... SERIES

Pneumatic Power Clamps | Dimensions | Technical Specifications



Technical Information | Model without Hand Lever

Model	Max. holding torque Nm [lb ft]	Clamping torque at 5 bar [72 psi] Nm [lb ft]	Piston Ø mm	Weight kg [lbs]	Air consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Connection G
82L2G-2...	75 [55]	25 [18]	25	1,0 [2.20]	0,4 [0.01]	G1/8
82L3G-2... 82L3N-2...	180 [133]	55 [41]	32	1,3 [2.86]	0,8 [0.03]	G1/8 1/8-18 NPT
82L4G-2... 82L4N-2...	380 [280]	120 [89]	40	1,9 [4.18]	1,2 [0.04]	G1/4 1/4-18 NPT

Model	B1	B1a	B1b	B3	B5	B5a	B5b	B6	B6a	B7	B7a**	B23	B24	B24a	B25	B27	B30	B31
										± 0,1	± 0,1	max.			+ 0,1		± 0,1	
82L2G-2...	32	34	-	3	4	4	4,5	7	-	25	-	53	60,5	53,5	-	-	44	15
82L3.-2...	42	34	46	-	5	8	4,5	7	10	20	30	60	76,5	63,5	8	3,5	51	21
82L4.-2...	45	40	-	-	6,5	6	4,5	10	10	25	35	74	88	69,5	9	3,5	57	26,5

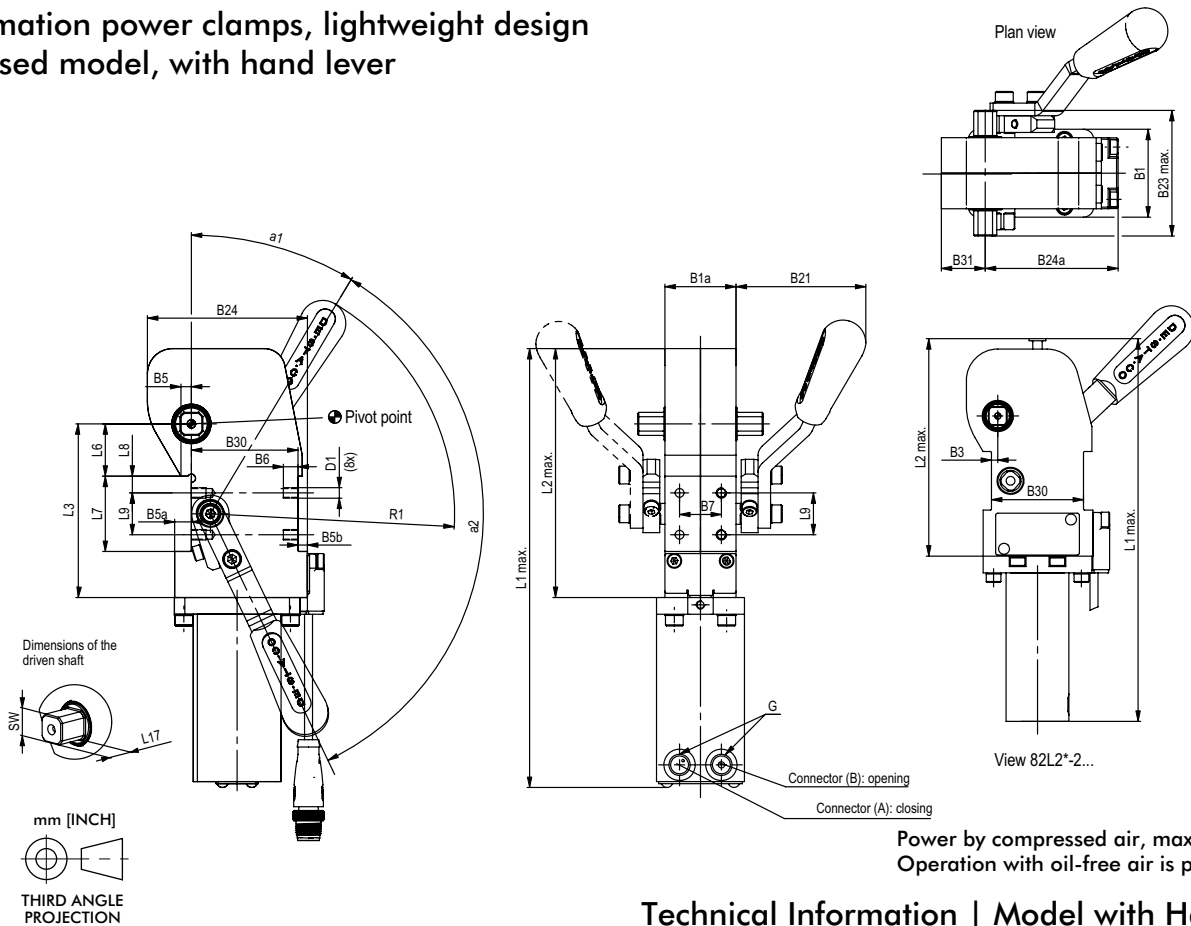
Model	D1	D1a	D4	D4a	L1	L2	L3	L6	L7	L8	L8a	L9	L9a**	L14	L17	L18	L19	SW
			H7	H7	max.	max.		± 0,05	+ 0,1	± 0,1	± 0,1	± 0,1	± 0,1	± 0,1	± 0,1		N9	h9
82L2G-2...	M5	M5	5	-	183,5	104,5	67	17	28	5	-	18	-	14	8,5	-	-	9
82L3.-2...	M5	M5	6	6	215	124	83	25	36	8	42	20	20	18	12,5	48	8	11
82L4.-2...	M6	M6	6	6	245	141	92	30	40	10	50	20	25	20	16	58,5	8	16

**Tolerance for distance to dowel hole ±0,02

82L..-2... SERIES

Pneumatic Power Clamps | Dimensions | Technical Specifications

Automation power clamps, lightweight design enclosed model, with hand lever



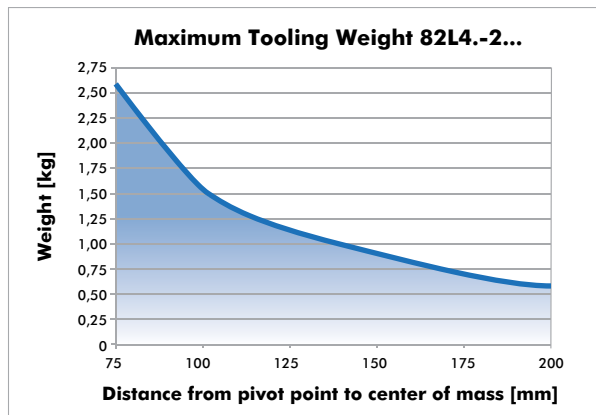
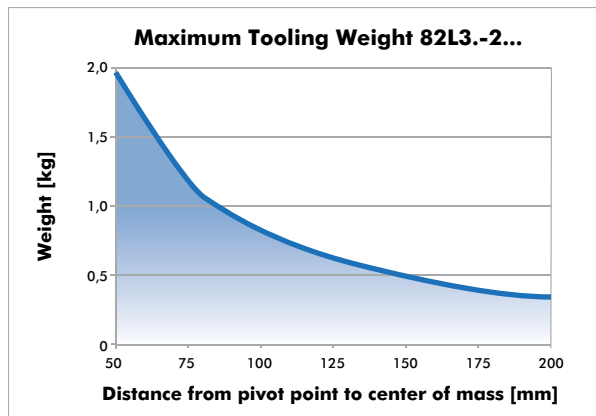
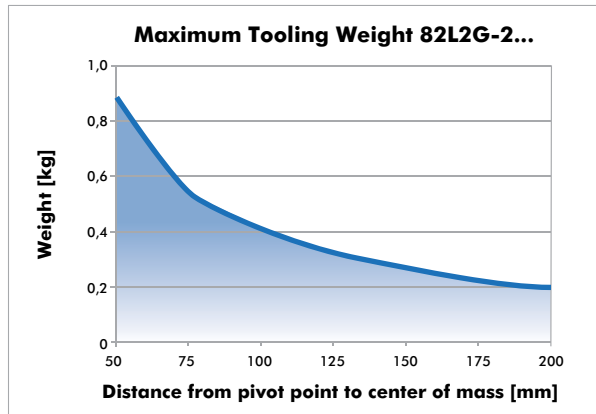
Technical Information | Model with Hand Lever

Model	Max. holding torque Nm [lb ft]	Clamping torque at 5 bar [72 psi] Nm [lb ft]	Piston Ø mm	Weight kg [lbs]	Opening angle	Air consumption per double stroke at 5 bar [72 psi] dm ³ [ft ³]	Connection G	B1	B1a	B3	B5	B5a
82L2G-2...	75 [55]	25 [18]	25	1,1 [2.42]	105°	0,4 [0.01]	G1/8	32	34	3	4	4
82L3G-2... 82L3N-2...	180 [133]	55 [41]	32	1,5 [3.30]		0,8 [0.03]	G1/8 1/8-18NPT	42	34	-	5	8
82L4G-2... 82L4N-2...	380 [280]	120 [89]	40	2,1 [4.62]		1,2 [0.04]	G1/4 1/4-18NPT	45	40	-	6,5	6

Model	B5b	B6	B7	B21	B23	B24	B24a	B30	B31	D1	L1	L2	L3	L6	L7	L8	L9	L17	SW	α1	α2	R1
			±0,1	~	max			±0,1			max.	max.		±0,05	+0,1	±0,1	±0,1	h9		~	~	~
82L2G-2...	4,5	7	25	62	53	60,5	53,5	44	15	M5	183,5	104,5	67	17	28	5	18	8,5	9	36°	131°	117
82L3G-2... 82L3N-2...	4,5	7	20	62	60	76,5	63,5	51	21	M5	210	119	83	25	36	8	20	12,5	11	31°	124°	117
82L4G-2... 82L4N-2...	4,5	10	25	62	74	88	69,5	57	26,5	M6	241	137	92	30	40	10	20	16	16	31°	131°	117

82L2G-2, 82L3.-2, 82L4.-2 SERIES

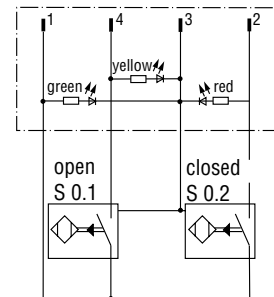
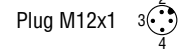
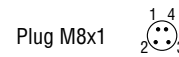
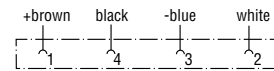
Pneumatic Power Clamps | Technical Specifications



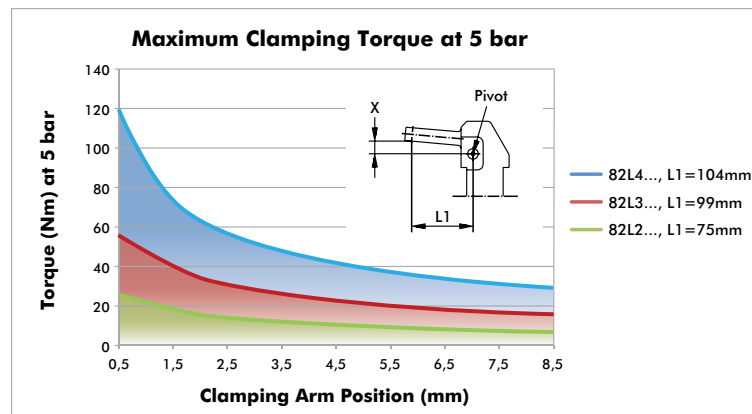
Wiring diagram of electrical sensing system
Sensing system immune to interference from d.c. arc welding and a.c. arc welding

Inductive version: B8, B7, C8

Pin Assignment



ATTENTION:
Calculation tool available. Please consult factory.

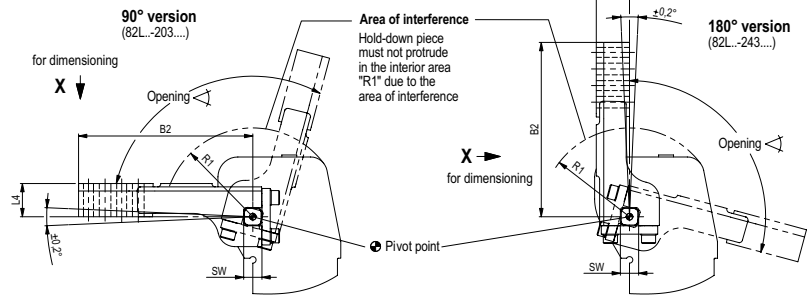
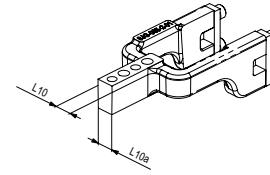
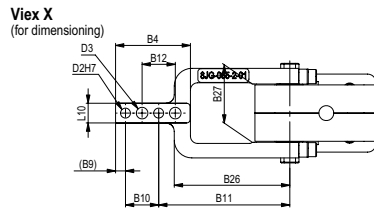


All data refers to a pneumatic pressure of 6 bar and to a opening and closing time of 1 second, as well as to the center of gravity of the complete construction directly attached to the clamp arm related to the fixed fulcrum.

82L2G-2, 82L3.-2, 82L4.-2 SERIES

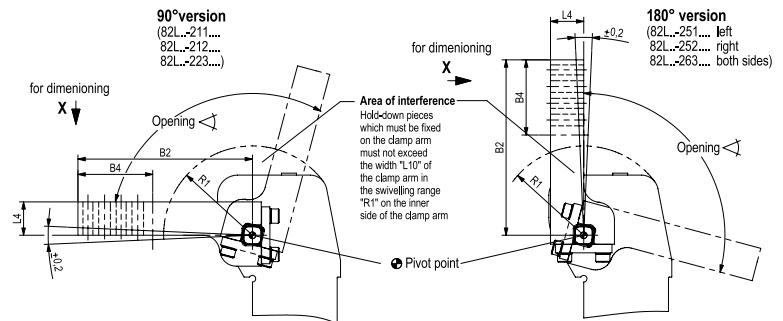
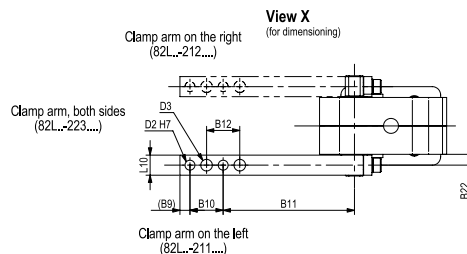
Pneumatic Power Clamps | Dimensions | Technical Specifications

U-Type Central Clamping Arms



Model	Order no. for set of U-type central clamping arms	Opening angle for 90° Version	Opening angle for 180° Version	Weight [kg]	B2	B4	B9	B10	B11	B12	B26	B27	D2	D3	L4	L10	L10a	R1	SW J7
		max.	max.		±0,02			±0,1	±0,2	+0,2	H7	±0,1	*±1,1	~	~				
82L2G-2...	8JG-075-3-01	105°	105°	0,3	93	45	8	20	65	20	58	36	4	6,5	20	12	-	45	9
82L3.-2...	8JG-065-2-01	105°	105°	0,37	105	45	6	20	79	20	69	35,1	6	7	20	12*	11,4	55	11
82L4.-2...	8JG-067-2-01	105°	105°	0,5	110	45	6	20	84	20	78	42,1	6	7	22	15*	14,3	58	16

Lateral Clamping Arms

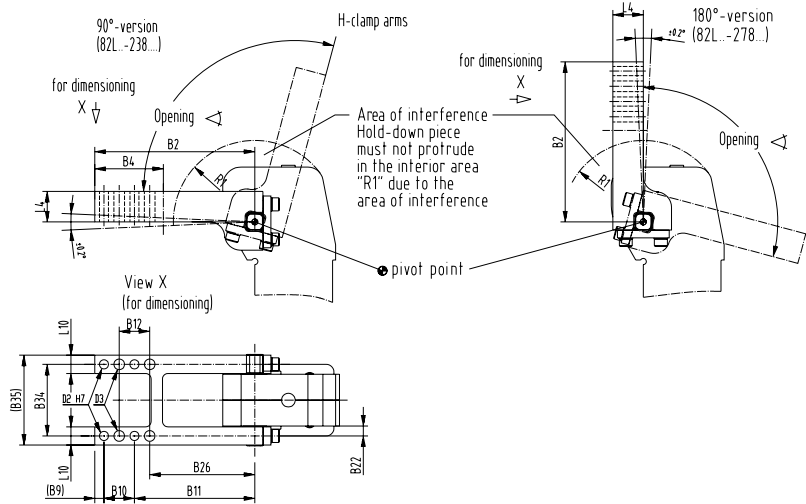


Model	Order no. for set of Lateral clamping arms	Opening angle for 90° - Version	Opening angle for 180° - Version	Weight [kg]	B2	B4	B9	B10	B11	B12	B22	D2	D3	L4	L10	R1
		max.	max.		±0,02			±0,1	±0,2	H7	±0,1	~				
82L3.-2...	8JG-066-1-01	105°	105°	0,25	105	45	6	20	79	20	6,5	6	7	20	12	55
82L4.-2...	8JG-068-1-01	105°	105°	0,3	92	45	6	20	66	20	8,5	6	7	22	15	58

82L2G-2, 82L3.-2, 82L4.-2 SERIES

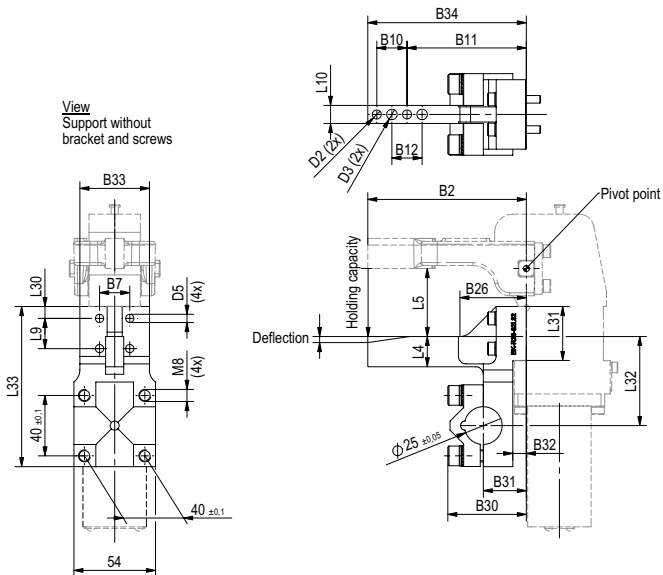
Pneumatic Power Clamps | Dimensions | Technical Specifications

H- Clamping Arms



Model	Order no. for set of H-clamping arms	Opening angle for 90° - Version	Opening angle for 180° - Version	Weight [kg]	B2	B4	B9	B10	B11	B12	B26	B34	B35	D2	D3	L4	L10	R1
		max.	max.		±0,02			±0,1	±0,2	±0,1		H7	±0,1					
82L3.-2.8...	8JG-363-1-01	105°	105°	0,52	105	45	6	20	79	20	69	47,1	59,1	6	7	20	12	55
82L4.-2.8...	8JG-364-1-01	105°	105°	0,77	110	45	6	20	84	20	78	57,1	72,1	6	7	22	15	58

Counter-Support



* = Tolerance for distance to dowel holes ±0,02
 ** = distance from pivot point

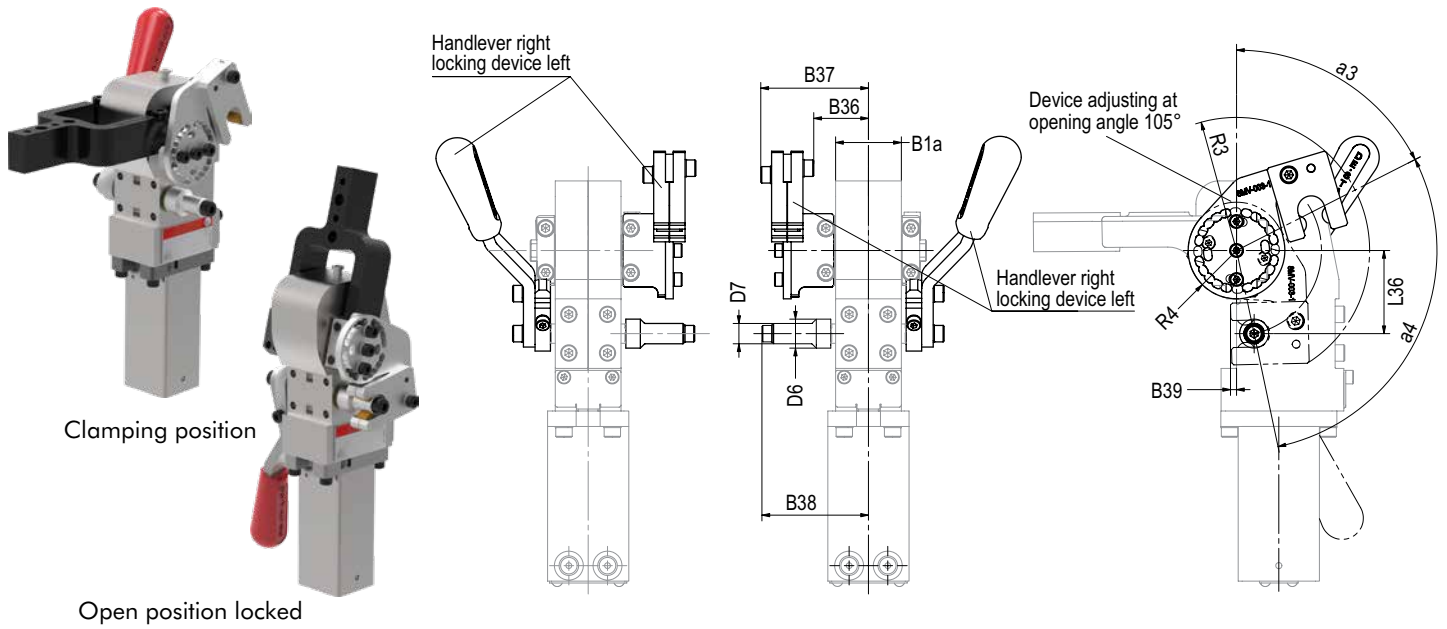
Model	Fit for Model	Holding Capacity max.	Deflection [mm]	Weight [kg]	B2	B7*	B10	B11	B12	B26**	B30**	B31**	B32**
		[N]			±0,1		±0,02	~					
BK-R25-82L25-1	82L2_	914	0,2	0,4	93	25	20	62	20	42	55	31,5	11
BK-R25-82L32-1	82L3_	660	0,16	0,5	105	20	20	79	20	44	52	28,5	9
BK-R25-82L40-1	82L4_	2000	0,37	0,56	110	25	20	84	20	41	52	28,5	7,5

Model	B33	B34	D2	D3	D5	L4	L5	L9	L10	L30	L31	L32	L33
			∅ H7	∅	∅	±0,1	±0,1				-0,1		
BK-R25-82L25-1	35	90	4	6,5	5,5	20	45	18	12	4,95	27,9	50,9	106
BK-R25-82L32-1	46	105	6	7	5,5	20	45	20	12	7,85	35,7	59	106
BK-R25-82L40-1	40	110	6	7	6,6	22	45	20	15	9,85	39,7	66	108

82L2G-2, 82L3.-2, 82L4.-2 SERIES

Pneumatic Power Clamps | Dimensions | Technical Specifications

Hold Open Device


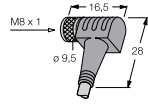

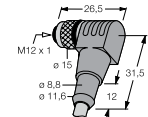


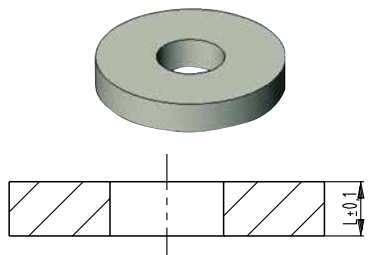
Model	Fit for Model	B1 α	B36	B37	B38	B39	D6	D7	L36	R3	R4	α 3	α 4
82ZB-036-1	82L2.-2....H..	34	25	47	47	3	15	10	31	53	18,5	63°	105°
82ZB-037-1	82L3.-2....H..	34	28	56	56	4	15	10,5	43	69	25	63°	105°
82ZB-038-1	82L4.-2....H..	40	30	58	58	3	15	10,5	50	76	27	63°	105°

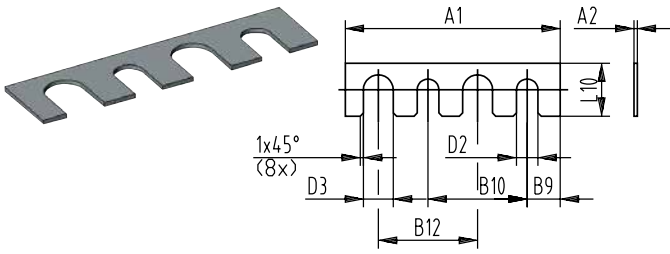
82L2G-2, 82L3.-2, 82L4.-2 ACCESSORIES

Pneumatic Power Clamps | For Use With or Without Hand Lever

Clamping Arms	Order No. for set 82L2G-2....0../ 82L2G-2....H..	Order No. for set 82L3.-2....0../ 82L3.-2....H..	Order No. for set 82L4.-2....0../ 82L4.-2....H..
U-central	8JG-075-3-01	8JG-065-2-01	8JG-067-2-01
Lateral	--	8JG-066-1-01	8JG-068-1-01
H-Shape	--	8JG-363-1-01	8JG-364-1-01

Connector cable (1 connector socket & 5 m cable)			
Connector socket M8x1 straight 4-pin		8EL-009-1	8EL-009-1
Connector socket M8x1 angular 4-pin		8EL-007-1	8EL-007-1
Connector socket M12x1 straight 5-pin		8EL-002-1	8EL-002-1
Connector socket M12x1 angular 4-pin		8EL-003-1	8EL-003-1

Opening angle limitation	Opening Angle	82L2G-2		82L3.-2		82L4.-2	
		Order No.	L ± 0,1	Order No.	L ± 0,1	Order No.	L ± 0,1
	15°	8CE-282-1	28,6	8CE-296-1	33,3	8CE-310-1	38,4
	30°	8CE-284-1	22	8CE-298-1	26,9	8CE-312-1	31
	45°	8CE-286-1	18,5	8CE-300-1	21,5	8CE-314-1	24,7
	60°	8CE-288-1	14	8CE-302-1	16,3	8CE-316-1	18,6
	75°	8CE-290-1	7,9	8CE-304-1	11	8CE-318-1	11
	90°	8CE-292-1	4,7	8CE-306-1	5,5	8CE-320-1	6,2

Shim for clamping arm	Order No.	A1	A2	D2	D3	B9	B10	B12	L10
	82ZB-SH4001		0,1						
	82ZB-SH4002		0,2						
	82ZB-SH4005	42	0,5	6,5	7	6	20	20	11,8
	82ZB-SH4010		1,0						
	82ZB-SH4020		2,0						
	82ZB-SH4050		5,0						

Spare Parts	Order No. for set		Order No. for set		Order No. for set	
	82L2G-2....0..	82L2G-2....H..	82L3.-2....0..	82L3.-2....H..	82L4.-2....0..	82L4.-2....H..
Cylinder	8PW-095-2		82L3G-2 (G port): 8PW-096-2 82L3N-2 (NPT port): 8PW-102-2		82L4G-2 (G port): 8PW-097-2 82L4N-2 (NPT port): 8PW-103-2	

Sensor Kit						
B8 Connector plug, M12x1, cable			8EA-139-1			
B7 Connector plug, M12x1, parallel with cylinder			8EA-138-1			
C8 Connector plug, M8x1, parallel with cylinder			8EA-137-1			
Hand Lever	--	8KB-031-1	--	8KB-031-1	--	8KB-032-1

