



- 2 Type**
- APV** U-bar version, with two flanged washers
 - CPV** U-bar version, with two flanged washers and GN 708.1 spindle assembly
 - EPV** Solid bar version, with weldable clasp
- 3 Coding**
- M** Magnetic piston

Specification

- Parts in sheet metal
Case-hardened steel C10
Zinc plated, blue passivated finish
- Hardened bearing pins
- Case-hardened bearing rivets
- Case-hardened air cylinder bearing pins
- Double-action air cylinder
Max. pressure 6 bar
- All moving parts lubricated with special grease
- Spindle assembly GN 708.1, Type A
→ page 858
 - Steel, zinc plated, blue passivated finish
 - Rubber tip 85 shore A
- RoHS compliant

Accessory

- Spindle assemblies → starting from page 856
- Clamp mounts GN 801 (for type APV3)
→ www.jwwinco.com
- Clamp mounts GN 809 (for type EPV3)
→ www.jwwinco.com
- Sensor GN 3380 → page 888

Information

The clamping principle of GN 862 pneumatic toggle clamps is identical in construction and dimensions to the manually operated GN 812 vertical acting toggle clamps.

To ensure an extended life of the mechanical parts as well as the air cylinders, the operating pressure should not exceed 6 bar and a compressed air maintenance unit should be installed upstream.

GN 862 toggle clamps have a permanent magnet integrated into the piston. In conjunction with GN 3380 sensors, it is possible to detect the piston position, which can deliver a signal, for instance to a machine controller.

see also...

- [General Information on Pneumatic Toggle Clamps](#) → page 840
- [List of Pneumatic Clamps](#) → page 834

How to order	1	Size
GN 862-230-APV-M	2	Type
	3	Coding

Metric table

Dimensions in: millimeters - inches

Size	F _H in N Holding Capacity	F _S in N Clamping force at 6 bar ≈	a	b ₁	b ₂	b ₃	b ₄	b ₅	d ₁ Thread	d ₂	d ₃ Compressed air connections	Inside Ø connection tube	e	h ₁ ≈	h ₂	h ₃	h ₄
75	750 N 169 lbf	570 N 128 lbf	20 0.79	47 1.85	25.5 1.00	40 1.57	30 1.18	5.2 0.20	M 5	4.5 0.18	M 5	4 0.16	28 1.10	154 6.06	43 1.69	11 0.43	19 0.75
130	1100 N 247 lbf	610 N 137 lbf	28 1.10	51 2.01	33 1.30	47 1.85	49 1.93	6.2 0.24	M 6	5.6 0.22	G 1/8	4 0.16	38 1.50	167 6.57	70 2.76	16 0.63	25.5 1.00
230	2200 N 495 lbf	1260 N 283 lbf	40 1.57	58 2.28	38 1.50	46 1.81	51 2.01	8.5 0.33	M 8	6.5 0.26	G 1/8	4 0.16	41.5 1.63	218 8.58	87 3.43	18 0.71	30 1.18
330	2600 N 585 lbf	1800 N 405 lbf	45 1.77	70 2.76	52.5 2.07	56 2.20	79 3.11	10.5 0.41	M 10	8.5 0.33	G 1/4	6 0.24	52.5 2.07	263 10.35	108 4.25	22 0.87	37 1.46

Size	h ₅	l ₁ ≈		l ₂ ≈	l ₃ max.	l ₄	m ₁	m ₂	m ₃	m ₄	m ₅	m ₆	r ≈		s ₁	s ₂	s ₃	w Adjustable range
		Type APV	Type CPV										Type APV	Type EPV				
75	28 1.10	99 3.90	100 3.94	36.5 1.44	46 1.81	45 1.77	24 0.94	8.5 0.33	12.5 0.49	10 0.39	12.5 0.49	-	62.5 2.46	63 2.48	2 0.08	3.5 0.14	4 0.16	15 0.59
130	53 2.09	118 4.65	119 4.69	47 1.85	58 2.28	55 2.17	27 1.06	13 0.51	12.5 0.49	16 0.63	12.5 0.49	12.5 0.49	79 3.11	80 3.15	2.5 0.10	4.5 0.18	5 0.20	17.5 0.69
230	63 2.48	153 6.02	155 6.10	67 2.64	81 3.19	68 2.68	26 1.02	14 0.55	16 0.63	11 0.43	16 0.63	14.2 0.56	104 4.09	105 4.13	3 0.12	5.5 0.22	6 0.24	20 0.79
330	80 3.15	182 7.17	184 7.24	72 2.83	91 3.58	77 3.03	30 1.18	16 0.63	28 1.10	19 0.75	30 1.18	20 0.79	121 4.76	123 4.84	3.5 0.14	6.5 0.26	7 0.28	19 0.75

