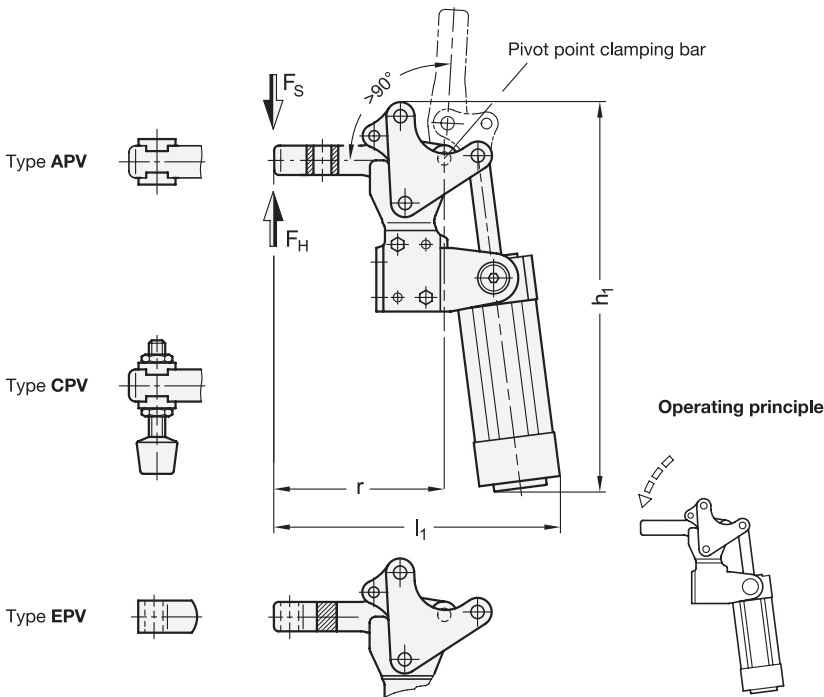


Steel, with Vertical Mounting Base, with Magnetic Piston



- 2

Type
- APV Clamping arm with slotted hole, with two flanged washers
- CPV Clamping arm with slotted hole, with two flanged washers and spindle assembly GN 708.1
- EPV Clamping arm with bushing
- 3

Coding
- M Magnetic piston

Specification

Tensioning mechanism

- Steel
- Base phosphate-treated
 - Bearing pins / bushings
Hardened / ground
 - Double-action air cylinder
 - With adjustable end position damping
 - Max. pressure 6 bar
 - Moving parts
Lubricated with special grease

Flanged washers GN 898 for type APV / CPV

Steel, zinc plated, blue passivated finish

Toggle Clamp Spindle Assemblies GN 708.1

for type CPV

- Steel, zinc plated, blue passivated finish
- Thrust pad
Chloroprene rubber (CR)
 - Hardness 85 Shore A ≈
 - Vulcanized
 - Black
 - Type A (flat pressure area)

RoHS

Heavy duty pneumatic toggle clamps GN 962 are equipped with a reinforced body, and bearing pins and bushings are hardened and ground. This makes them suitable for applications in which substantial forces arise and a long service life is required.

To ensure an extended life of the mechanical parts as well as the pneumatic cylinder, the operating pressure should not exceed 6 bar. In addition, a compressed-air control unit should be mounted in the air intake line.

Heavy duty pneumatic toggle clamps GN 962 are equipped with a magnetic piston as standard. This makes end position detection possible in connection with sensors GN 3380.

Technical Information	Page
More Information to Toggle Clamps (Pneumatic)	QVX
Accessory	
GN 3380 Sensor	QVX
GN 801 Clamp Mounts (for Type APV)	QVX
Clamping Screws (for Type APV)	QVX cont.

How to order	1 Size
GN962-440-APV-M	2 Type
	3 Coding

Metric table

1

Dimensions in: millimeters / inches

Size	Type APV Type CPV	Type EPV	F _H Holding capacity	F _S Clamping force at 6 bar ≈	a ≈	b ₁ ≈	b ₂	b ₃	b ₄	d ₁	d ₂	d ₃	d ₄	Inside Ø connection tube	e ≈
220	-	-	2200 N 495 lbf	870 N 196 lbf	35 1.38	62 2.44	48 1.89	36 1.42	6.3 0.25	M 6	6.5 0.26	G 1/8	-	4 0.16	38.3 1.51
440	-	-	4400 N 989 lbf	1220 N 274 lbf	35 1.38	74 2.91	65 2.56	54 2.13	10.3 0.41	M 10	8.5 0.33	G 1/4	-	6 0.24	54.1 2.13
-	-	850	8500 N 1911 lbf	2280 N 513 lbf	-	87.5 3.44	75 2.95	75 2.95	-	M 12	10.5 0.41	G 1/4	12.5 0.49	8 0.31	70.7 2.78

Size	Type APV Type CPV	Type EPV	h ₁ ≈	h ₂	h ₃	h ₄ ≈	h ₅	l ₁ ≈	l ₂ ≈	l ₃ ≈	l ₄	m ₁	m ₂	m ₃	r	s ₁	s ₂	w Adjustable range
220	-	-	221 8.70	77 3.03	16.6 0.65	26 1.02	60.3 2.37	161 6.34	51 2.01	-	65 2.56	30 1.18	34 1.34	20 0.79	96 3.78	3.5 0.14	-	27 1.06
440	-	-	287 11.30	106 4.17	24 0.94	38 1.50	78 3.07	195 7.68	60 2.36	-	77 3.03	42.5 1.67	46.5 1.83	30 1.18	125 4.92	5 0.20	-	18 0.71
-	-	850	355 13.98	140 5.51	31 1.22	-	-	229 9.02	-	68 2.68	-	52 2.05	56 2.20	55 2.17	151 5.94	6 0.24	12 0.47	-

