FABCO-AIR

FKA Series

Pneumatic Angular Grippers





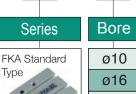
Features

- 1. Magnetic piston is standard feature.
- 2. Adding optional sensors enables "open" and "close" position sensing.
- 3. Compact design make grippers ideal for handling small parts in confined areas.
- 4. Gripper body is hardcoated aluminum ensuring abrasion and corrosion resistance.

16

5. No extra lubrication required.

How to Order



See sensor specifications, selection guide and pricing on page 3. Please order sensors and female cordsets separately.

ore	Model	Price	
ø10	FKA-10	-	
ø16	FKA-16	_	
ø20	FKA-20	_	
o25	FKA-25	_	
023	FRA-23	_	

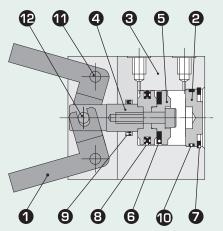
Specifications

100 psi max.

Model		FKA				
Action		Double acting				
Bore (mm)		ø10	ø16	ø20	ø25	
Media		Compressed air				
Min.operating pressure		15 psi				
Max.operating pressure		0.7 MPa (7 kgf/cm2) 100 psi				
Ambient & media temperature		−10°C(14°F) ~ +70°C(158°F) Use filtered dry air				
Lubrication		None required or use ISO VG32				
Port siz	ze	M3x0.5	M5x0.8			
Openii	Opening		approx10°~ +30°			
М	Open	.12 x P	.31 x P	.49 x P	.76 x P	
141	Close	.077 x P	.23 x P	.37 x P	.59 x P	
Max tooling length (in.)		1.18	1.57	2.36	2.75	
Effective gripping force (F) lbf		F = M/L x 0.0332				
Weight g (ounce)		40(1.41)	96(3.38)	180(6.34)	313(11.0)	

- **F** = Effective gripping force (lbf) **M** = Calc
- **M** = Calculated from chart above.
- **P** = Operating pressure (psi)
- $\mathbf{L} = \text{Distance grip point to jaw pivot. (in.)}$

Construction



Parts List

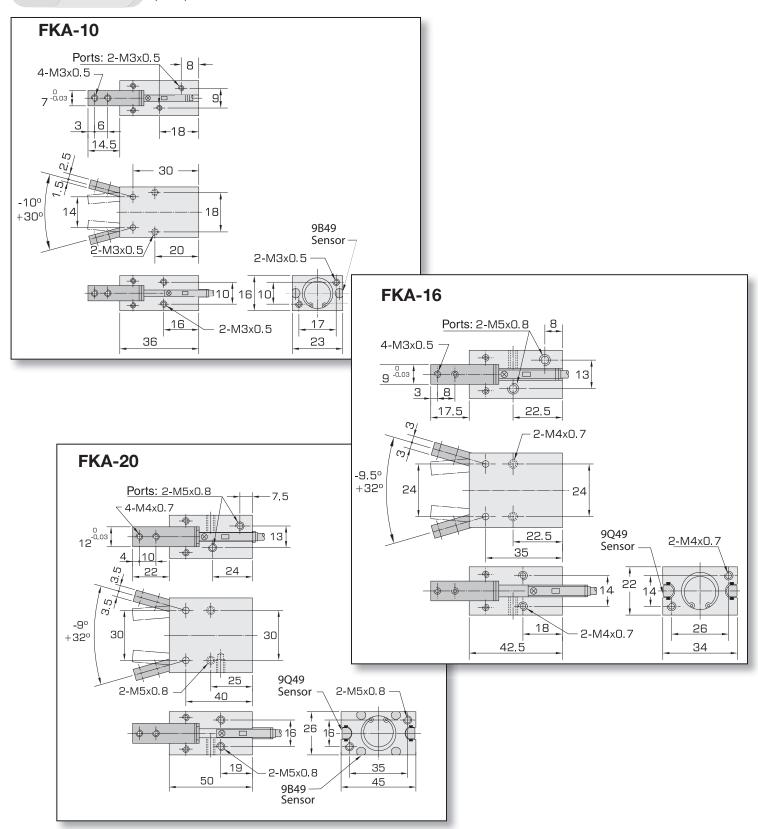
NO	Description	Material	Qty
0	Finger	Nitrided carbon steel	1
9	Rear end cover	Anodized aluminum alloy	1
③	Body	Hard anodized aluminum alloy	1
4	Piston rod	Hard chrome carbon steel	
9	Piston	Aluminum alloy	1
6	Magnet	Rubber bonded barium ferrite	1
0	Snap ring	Stainless steel	
8	Piston seal	Nitrile - Buna N	1
9	Piston rod seal	Nitrile - Buna N	1
10	End cover seal	al Nitrile - Buna N	
1	Finger pivot	Steel alloy	1
P	Finger pivot	Steel alloy	1

Please visit http://portal.fabco-air.com/configure.php for current pricing. Specifications and prices subject to change without notice or incurring obligation

Pneumatic Angular Grippers

Dimensions

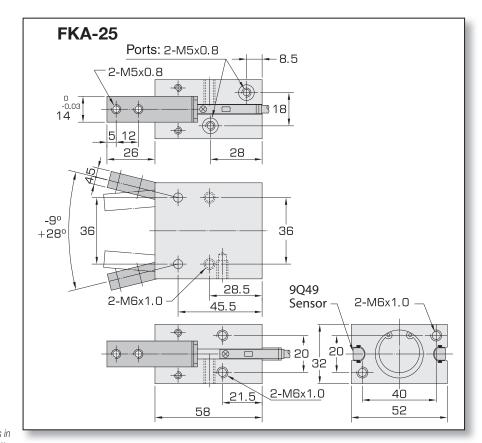
(mm)



FKA Series Pneumatic Angular Grippers

Dimensions

(mm)



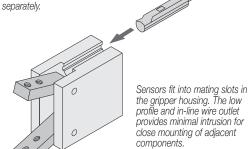
Sensors

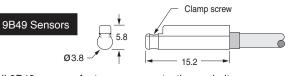
9Q49 Sensors

Leadwire

Clamp

Please order sensors and female cordsets





All 9B49 sensors feature surge protection, polarity protection, LED indicator, and extremely fast switching speeds. The 9B49 series has an amplifier module (with LED) approximately 18 inches away from the sensor housing. Total length of the pre-wired type is approximately 10.5 feet. The quick connect version is roughly 19 inches overall length with the amplifier and LED integrated into the connector.



CFC-5M

Б		9B49 S	ensor Selection Guide for bore sizes ø10 & ø20	Pre-wired Leadwire	Quick Disconnect
9B49 4 mm roul	00	Sensor Type	Electrical Characteristics	Part No. Price	Part No. Price
	[]	Electronic (LED)	Sourcing PNP 6-24 VDC, 0.2 Amp Max current, 6 Watt max., 1.0 voltage drop	9B49-000-031	9B49-000-331
					9B49-000-332

	9Q49 Sensor Selection Guide for bore sizes ø16 ~ ø25		Prewired 9 ft. Leadwire	Quick Disconnect*
	Sensor Type	Electrical Characteristics	Part No. Price	Part No. Price
	Electronic (LED)	Electrical Characteristics Sourcing PNP 5-28 VDC, 0.20 Amp Max current, 0.5 Voltage Drop	9Q49-000-031	9Q49-000-331
	Electronic (LED)	Sinking NPN 5-28 VDC, 0.20 Amp Max current, 0.5 Voltage Drop	9Q49-000-032	9Q49-000-332

*Note: 6.3mm oval quick disconnect style sensors are supplied with 6 inch pigtail with male connector.

5 Meters

Fabco-Air Product Catalog Library



Cylinders, Valves and Accessories Catalog #CV9



Pancake® II Air Cylinders Catalog Pan2-2



Square Pancake® II Air Cylinders Catalog # SqPan2

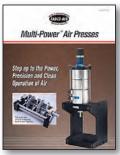


Check out these new product lines today !

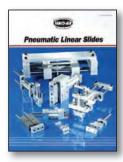
ISO 6431 Cylinders Catalog # FAQR-09



Twin Rod, Non-Rotating Air Cylinders - Catalog # FDF-09 and Catalog # FDXS-09



Multi-Power® Air Presses Catalog # FP16



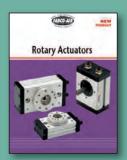
Linear Slides - 6 Families Catalog # LS-03



Pneumatic Grippers, Parallel Jaw and Angular Motion – Catalog # GR-8



ISO 6432 Cylinders Catalog # FAE-09



Rotary Actuators, Pneumatic Catalog # FRA.C-09



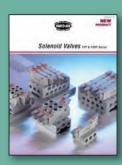
NFPA Interchangeable Air Cylinders – Catalog # NF-6



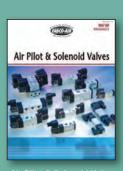
Global Series™ Metric Air Cylinders - Catalog # GC-15



Swing Clamps Bulletin # SC-DB04



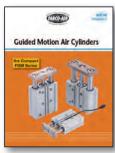
Manifold Solenoid Valves Catalog # FVS.Y-09



Air Pilot & Solenoid Valves Catalog # FVA.E-09



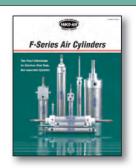
Modular Air Preparation System - FRLs Catalog # FRL-06



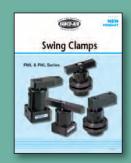
Guided Motion Air Cylinders Catalog # FGM-10



Stopper Cylinders Catalog # ST-SC



Stainless Steel Body Air Cylinders Catalog # SSB-03



Pneumatic & Hydraulic Swing Clamps Catalog # FML.H

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