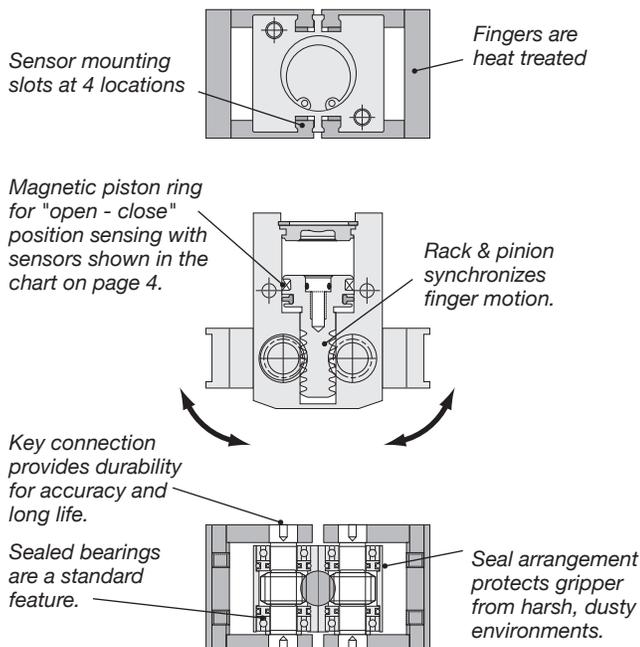
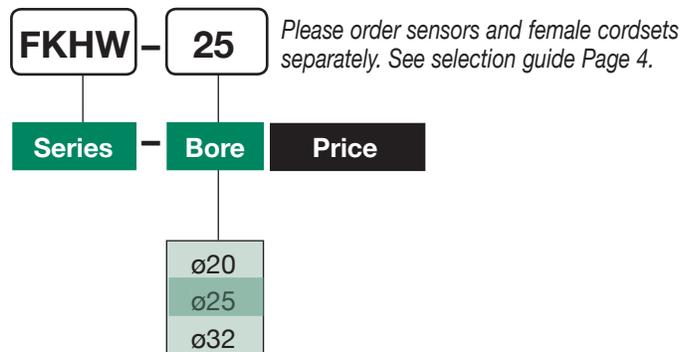




### Features

1. Magnetic piston is standard feature.
2. Adding optional sensors enable "open" and "close" position sensing.
3. Rack and pinion design synchronizes finger motion.
4. Fingers are heat treated for durability.
5. All bearings are sealed for longer operational life.
6. Compact design make grippers ideal for handling various sized workpieces in confined areas.
7. Gripper body is hardcoated aluminum ensuring abrasion and corrosion resistance.
8. No extra lubrication required.

### How to Order

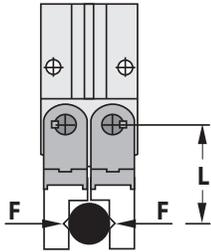


### Specifications

Media	Compressed air
Operating pressure	0.15 MPa (22 psi) to 0.7 MPa (101 psi)
Ambient & media temperature	-10°C(14°F) ~ +60°C(140°F)
Lubrication	None required or use ISO VG32
Repeatability	±0.2 mm
Max. operating frequency	60 c.p.m. (30 c.p.m. for 32 bore)
Effective gripping force	See pg.2

## Determine Effective Grip Force

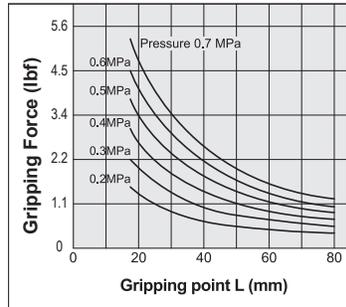
Figure 1



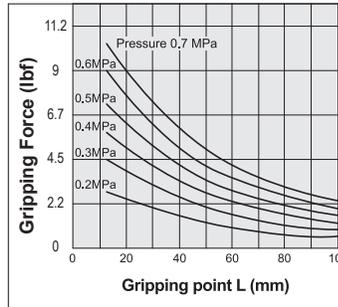
• The effective gripping force shown in the graph to the right is expressed as "F", which is the applied force of one finger, when both fingers and attachments are in full contact with the workpiece as shown in Figure 1.

0.2 MPa = 29 psi  
 0.3 MPa = 43 psi  
 0.4 MPa = 58 psi  
 0.5 MPa = 72 psi  
 0.6 MPa = 87 psi  
 0.7 MPa = 101 psi

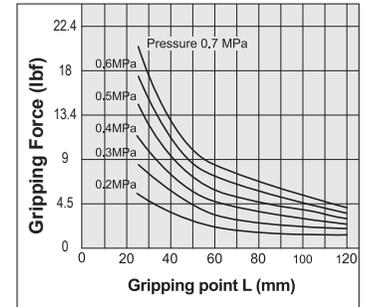
FKHW-20 External Grip Force



FKHW-25 External Grip Force

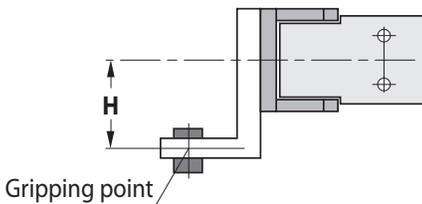


FKHW-32 External Grip Force



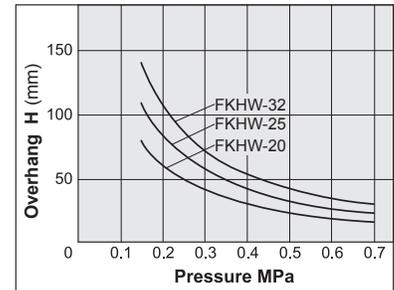
## Determine Effective Grip Point

Figure 2



• Workpiece should be held at a point below the range of overhanging distance "H" for a given pressure indicated in the graph on the right.  
 • When the workpiece is held at a point beyond the recommended range for a given pressure, it may cause an adverse effect on the product life.

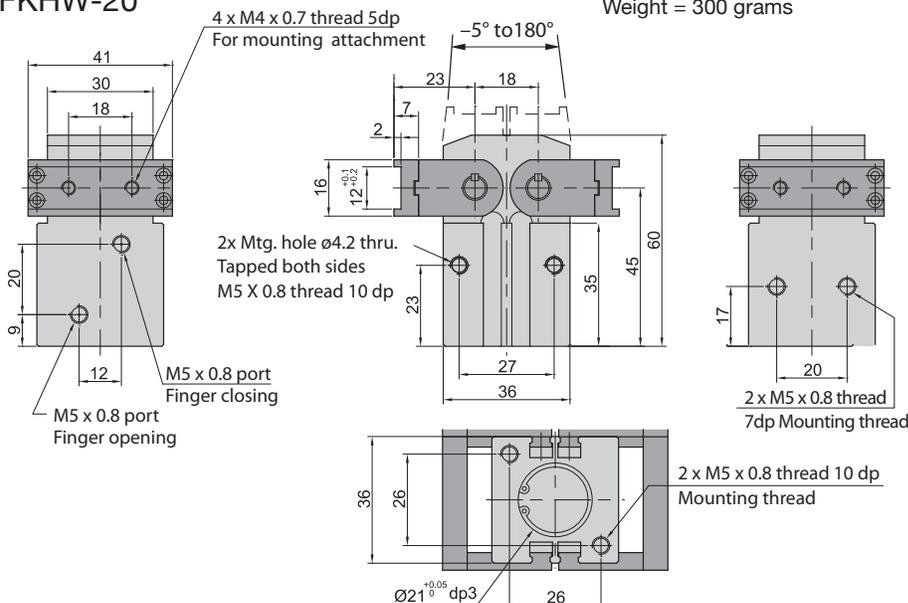
Allowable Overhang



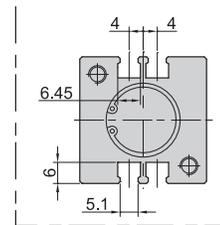
## Dimensions (mm)

### Model FKHW-20

Weight = 300 grams



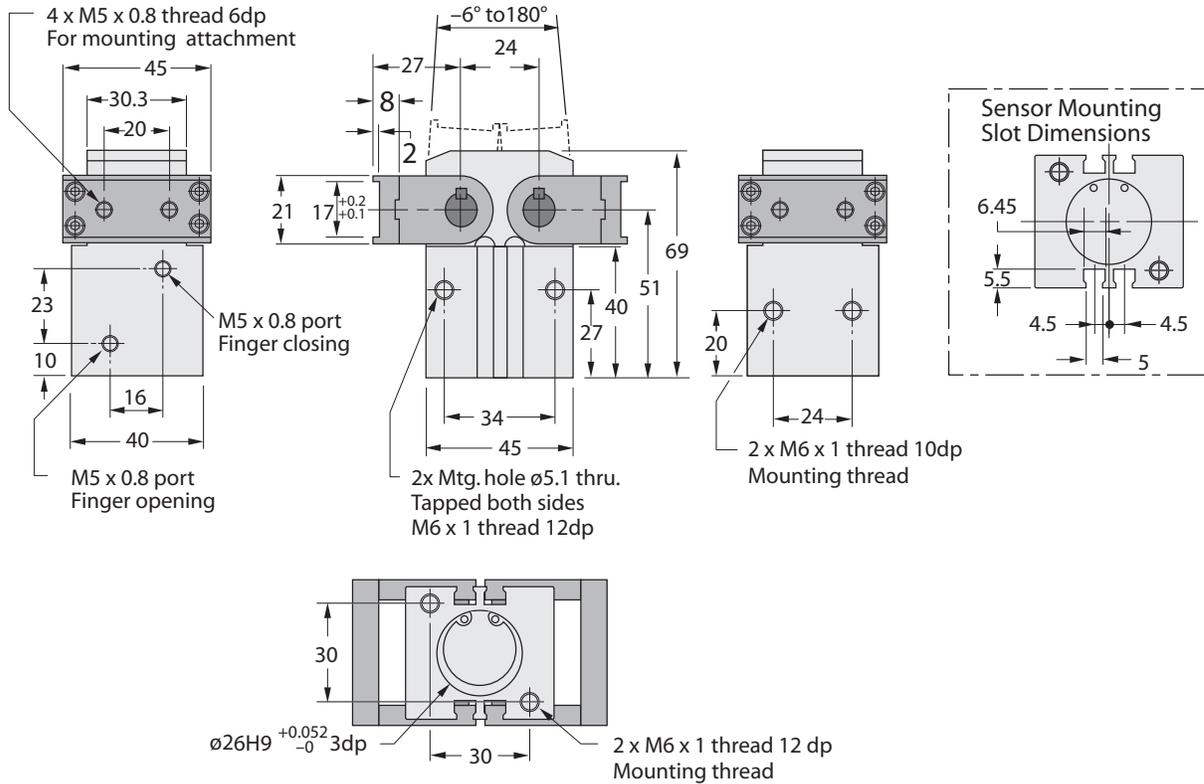
Sensor Mounting Slot Dimensions



#### Dimensions (mm)

##### Model FKHW-25

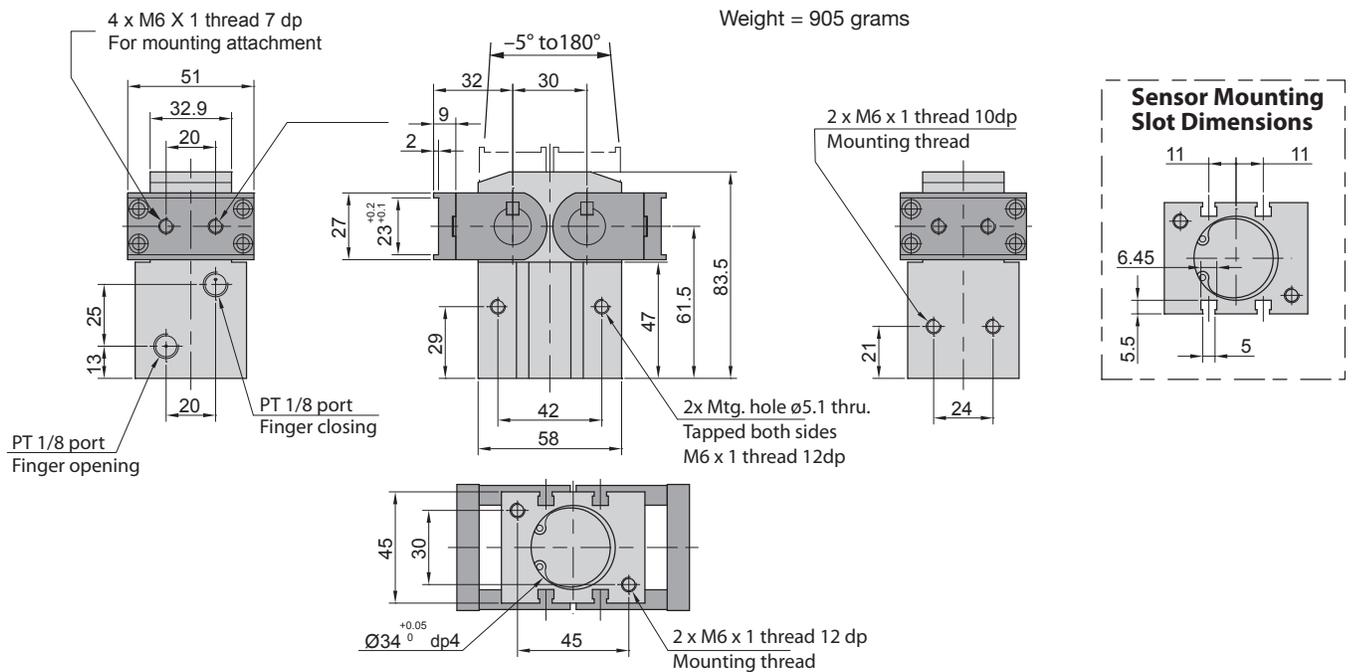
Weight = 510 grams



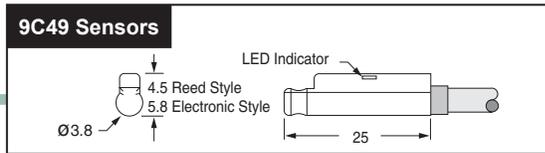
#### Dimensions (mm)

##### Model FKHW-32

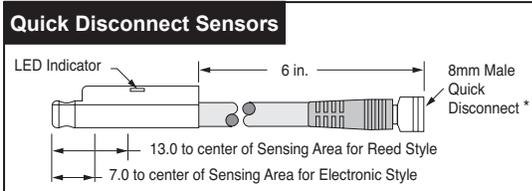
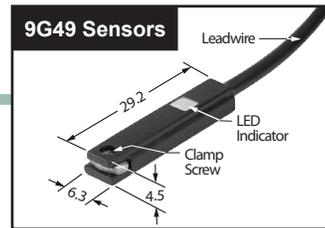
Weight = 905 grams



## Position Sensors



All 9C49 sensors feature surge protection, polarity protection, LED indicator, and extremely fast switching speeds.



Female Cord Sets		
Length	Part No.	Price
1 Meter	CFC-1M	-
2 Meters	CFC-2M	-
5 Meters	CFC-5M	-

6.3 mm wide	9G49 Sensor Selection Guide		Prewired 9 ft. Leadwire		Quick Disconnect*	
	Sensor Type	Electrical Characteristics	Part No.	Price	Part No.	Price
	Reed (LED)	5-120 VDC/VAC, 0.03 Amp max, 0.005 AMP min, 4 Watt max., 2.0 voltage drop	9G49-000-002	-	9G49-000-302	-
	Electronic (LED)	Sourcing PNP 5-28 VDC, 0.20 Amp max current, 1.5 voltage drop	9G49-000-031	-	9G49-000-331	-
	Electronic (LED)	Sinking NPN 5-28 VDC, 0.20 Amp max current, 1.5 voltage drop	9G49-000-032	-	9G49-000-332	-

4 mm round	9C49 Sensor Selection Guide		Prewired 9 ft. Leadwire		Quick Disconnect*	
	Sensor Type	Electrical Characteristics	Part No.	Price	Part No.	Price
	Reed (LED)	5-120 VDC/VAC, 0.04 Amp Max current, 4 Watt Max., 2.5 voltage drop	9C49-300-002	-	9C49-300-302	-
	Electronic (LED)	Sourcing PNP 5-28 VDC, 0.2 Amp Max current, 6 Watt max., 0.5 voltage drop	9C49-300-031	-	9C49-300-331	-
	Electronic (LED)	Sinking NPN 5-28 VDC, 0.2 Amp Max current, 6 Watt max., 0.5 voltage drop	9C49-300-032	-	9C49-300-332	-

Using 9C49 Sensors on these FKHW Grippers requires use of an adapter #TD11046 (included with 9C49-300-xxx sensors) which allows fitting these 4mm round sensors into any of the sensor slots. The adapter is also available separately at no charge.

## You may also be interested in these other gripper products

### detailed in the Fabco Catalog Library



Angular Grippers  
Catalog #FKA-09



High Closing Force  
Angular Grippers  
Catalog #FKHC-10



Toggle Type  
Angular Grippers  
Catalog #FKHT-10



Wide & Narrow Parallel  
Grippers - Catalogs  
#FKHZ-10 & #FKHQ-10



Wide Opening  
Parallel Grippers  
Catalog #FKHL-10



3 Series of Angular &  
Parallel Motion Grippers  
Catalog #GR8



3 Jaw Parallel Motion  
Grippers Catalog #FKHS