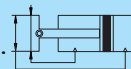


**DOUBLE ACTING
WITH MAGNETIC PISTON** **DKA**

Features

- Suitable for handling small parts in confined areas.
- Compact design, gripping body is made of hardcoated aluminium, ensures abrasion and corrosion proof.
- Use non-lubricated seals for durable performance.
- Reed switches are available for indication of piston position, ensure of parts being pick-up.

Specification

Type	DKA
Bore	Φ 10、16、20、25
Power fluid	Filtered air with or without lubrication
The range of pressure	1 ~ 7 kgf/cm ²
Proof pressure	10 kgf/cm ²
Speed range	50 ~ 100 mm/sec
The range of temperature	-10 ~ +70 °C (No freezing)

How to order

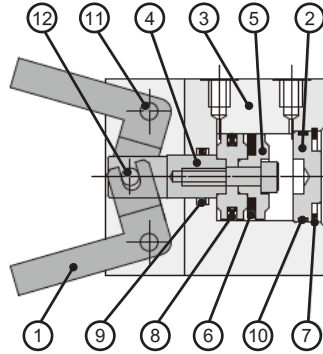
DKA	16	-	DTH-F9B	1
Type	Bore		Sensor switch	Quantity
 DKA	10 : Φ 10 16 : Φ 16 20 : Φ 20 25 : Φ 25		DTH-F9B Two wire type No reed switch	1 : 1pc 2 : 2pcs
			DTH-F9BV Two wire type No reed switch	
			DTH-F9N Three wire type NPN Current sinking	
			DTH-F9NV Three wire type NPN Current sinking	
			DTH-F9P Three wire type PNP Current sourcing	
			DTH-F9PV Three wire type PNP Current sinking	
			DTD11047 Fixing frame	

Theoretic force

Bore	Φ 10	Φ 16	Φ 20	Φ 25
Theoretic force (M) A(area)×P	Open	0.78 x P	2.0 x P	3.1 x P
	Close	0.5 x P	1.5 x P	2.3 x P
Max. clamp length	30 mm	40 mm	60 mm	70 mm
Clamping force (F)	$F = M / L \times 0.85 \text{ kgf}$			
Angle	-10° ~ +30°			
Fitting port	M3 x 0.5		M5 x 0.8	
Weight	40 g	96 g	180 g	313 g

Note : F = Clamping force (kgf) M = Holding force (kgf · cm) P = Pressure (kgf · cm²) L = Max. clamp length(mm)

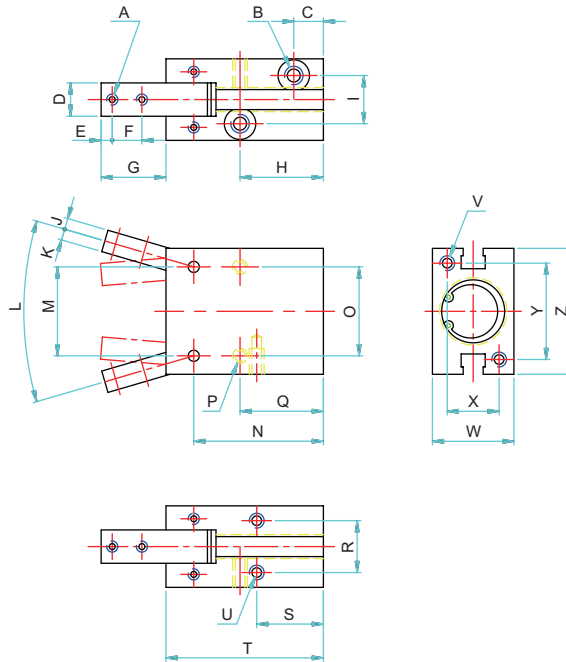
DKA Inside structure



Parts list

No.	Part name	Material	Quantity	No.	Part name	Material	Quantity	No.	Part name	Material	Quantity
1	Finger	Nitrided medium carbon steel	1	5	Piston	Aluminium	1	9	Piston rod seal	NBR	1
2	End cover	Anodized aluminium alloy	1	6	Magnet	Resionus magnet	1	10	End cover seal	NBR	1
3	Barrel	Hard anodized aluminium alloy	1	7	Snap ring	Stainless steel	1	11	Finger pivot	Steel alloy	1
4	Piston rod	Hardened chrome mediumcarbon steel	1	8	Piston seal	NBR	1	12	Finger pivot	Steel alloy	1

DKA Dimensional features



Dimensional table

Mark Bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Φ10	4-M3x0.5	2-M3x0.5	8	7 _{-0.03} ⁰	3	6	14.5	18	10	2.5	1.5	-10° ~ +30°	14	30	18	2-M3x0.5	20	10	16	36	2-M3x0.5	2-M3x0.5	16	10	17	23
Φ16	4-M3x0.5	2-M5x0.8	8	9 _{-0.03} ⁰	3	8	17.5	22.5	13	3	3	-9.5° ~ +32°	24	35	24	2-M4x0.7	22.5	14	18	42.5	2-M4x0.7	2-M4x0.7	22	14	26	34
Φ20	4-M4x0.7	2-M5x0.8	7.5	12 _{-0.03} ⁰	4	10	22	24	13	3.5	3.5	-9° ~ +32°	30	40	30	2-M5x0.8	25	16	19	50	2-M5x0.8	2-M5x0.8	26	16	35	45
Φ25	4-M5x0.8	2-M5x0.8	8.5	14 _{-0.03} ⁰	5	12	26	28	18	5	4	-9° ~ +28°	36	45.5	36	2-M6x1.0	28.5	20	21.5	58	2-M6x1.0	2-M6x1.0	32	20	40	52