Pneumatic Guided Cylinders

Features

- Twin-rod cylinder
- Can be mounted from four directions
- Magnetic switch slots around the cylinder body
- Can be mounted the workpiece from three directions
- Bumper in front of the barrel
- Six bore size available

RS PRO Slide Cylinder

0291839

RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

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Product Description

The non-rotating precision is high and deflection of the end of piston rod is low, which is suitable for precise guide.
Mounting holes on three sides facilitates multi-position mounting.
There are two groups of air intake and outlet at two sides of the cylinder for the actual selection.
Bumper in front of the barrel can adjust the stroke of cylinder and relieve impact.

General Specifications

Stroke	See table below for more details
Bore	See table below for more details
Manufacturer Series	HPSK
Action	Double
Bearing Type	Slide bearing
Pneumatic Connection	See table below for more details
Maximum Operating Pressure	10 bar
Cushioning Type	Rubber cushion

Mechanical Specifications

Body	Aluminium
Rod	Carbon steel
Maximum Operating Temperature	70°C
Minimum Operating Temperature	-20°C
Dimension	See table below for more details
Weight	See table below for more details
Length	See table below for more details

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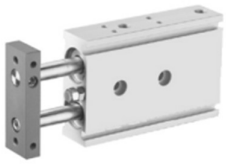
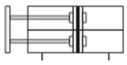
RS PRO HNG BB Series Slide Cylinder Specifications

Stock No.	Series Model	Bore (mm)	Stroke (mm)	Length (mm)	Height (mm)	Width (mm)	Weight (g)	Pneumatic Connect.
0291858	BS	10	10	82	17	46	170	M5
0291860	BS	10	20	92	17	46	190	M5
0291862	BS	10	50	122	17	46	250	M5
0291863	BS	16	10	89	20	58	270	M5
0291864	BS	16	20	99	20	58	300	M5
0291866	BS	16	25	104	20	58	315	M5
0291867	BS	16	30	109	20	58	330	M5
0291869	BS	16	40	119	20	58	360	M5
0291870	BS	16	50	129	20	58	390	M5
0291872	BS	16	80	159	20	58	480	M5
0291873	BS	16	100	179	20	58	540	M5
0291875	BS	20	20	114	25	64	480	M5
0291876	BS	20	25	119	25	64	500	M5
0291878	BS	20	50	144	25	64	600	M5
0291879	BS	20	80	174	25	64	720	M5
0291881	BS	20	100	194	25	64	800	M5
0291882	BS	25	50	146	30	80	880	1/8
0291884	BS	25	80	176	30	80	1050	1/8
0291885	BS	25	100	196	30	80	1190	1/8
0291886	BS	32	40	152	38	98	1480	1/8
0291839	BS	32	50	162	38	98	1570	1/8
0291840	BS	32	80	192	38	98	1840	1/8
0291841	BS	32	100	212	38	98	2020	1/8
0291842	BS	32	200	312	38	98	2920	1/8

Pneumatic Guided Cylinders

Specifications





HPSK... BS

Specifications

Bore(mm)	6	10	16	20	25	32
Acting type	Double acting					
Working Medium	Clean Air(after 40 μ m filtration)					
Working Pressure (MPa)	0.1~1.0					
Guaranteed Pressure (MPa)	1.5					
Working Temperature (℃)	–20~70(No freezing)					
Speed range (mm/s)	30~500					
Cushion type	Rubber cushion					
Stroke tolerance(mm)	$^{+1.0}_{0}$					
Adjustable stroke(mm)	–5~0					
No–rotating precision	± 0.2°		± 0.15°			± 0.1°
Port Size	M5 × 0.8					G1/8❶

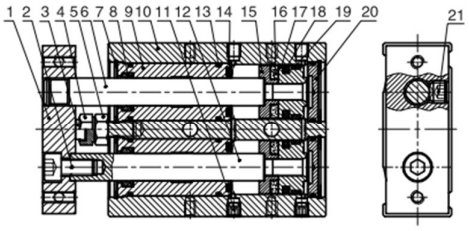
❶ PT、NPT port size is optional.

Stroke

Bore (mm)	Standard Stroke (mm)	Max. Stroke (mm)
6	10 20 30 40 50	50
10	10 20 25 30 40 50 60 70 75 80 90 100	100
16~32	10 20 25 30 40 50 60 70 75 80 90 100 125 150 175 200	200

Note:The dimensions of non–std stroke cylinder has the same dimensions as the next longer stroke std. stroke cylinder.
e.g. 27mm stroke cylinder has the same dimensions of 30 std. stroke cylinder.

Internal Structure

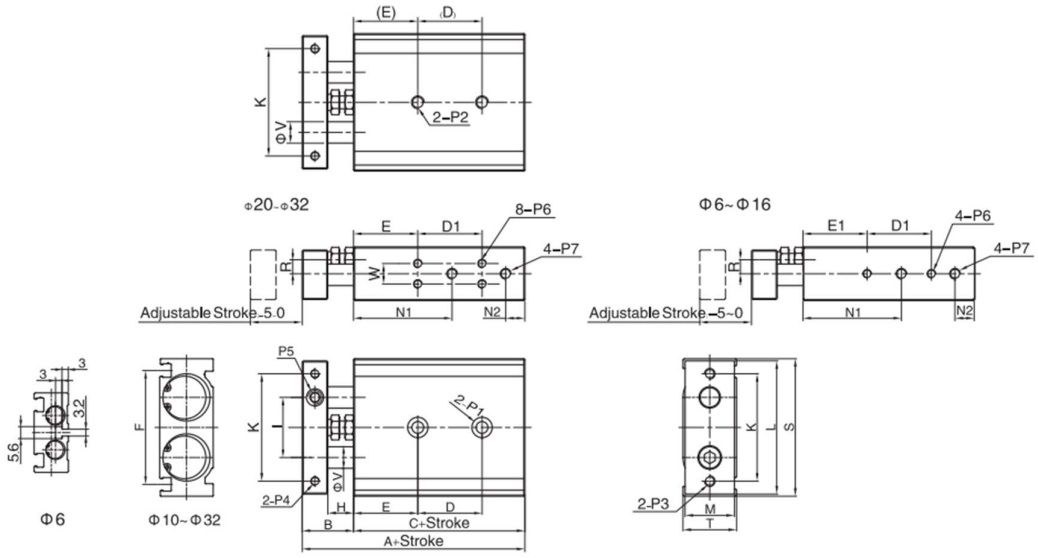


No.	Part Name	Material
1	Fixing plate	Aluminum alloy
2	Nut	Carbon steel
3	Bumper	POM
4	Adjustable nut	Carbon steel
5	Screw	Carbon steel
6	Piston rod	S45C hard chrome carbon steel
7	C clip	Carbon steel
8	Wiper seal	NBR
9	Head cover	Aluminum alloy
10	Body	Aluminum alloy
11	Hex fix screw	Cu
12	Piston rod	S45C hard chrome carbon steel
13	O–ring	NBR
14	Anti–bump cushion	TPU(EN10 is POM)
15	Magnet holder	Aluminum alloy
16	Magnet	NdFeB
17	Piston	Aluminum alloy
18	Piston seal	NBR
19	Wear ring	PTFE
20	Rear cover	Aluminum alloy
21	Hex fix screw	Cu

Pneumatic Guided Cylinders

Dimensions

Main Dimension



(mm)

Bore\Sign	A	B	C	D D1								E	E1	F	H	I	K	L	M	N1	N2	R
				10~25	30~50	60~80	90~100	125	150	175	200											
6	58.5	13.5	45	D=10+Stroke/2 D1=13+Stroke		-	-	-	-	-	-	13	10	25.8	8	16	28	35	14	24.5	6.5	4.5
10	72	17	55	30	40	50	60	-	-	-	-	20	20	36.5	9	20	35	44	15	30	8	3.5
16	79	19	60	25	35	45	55	65	75	145	145	30	30	47.5	9	25	45	56	18	38	8	5
20	94	24	70	30	40	60	60	80	80	100	100	30	-	53	12	28	50	62	23	46	9	6.5
25	96	24	72	30	40	60	60	80	80	100	100	30	-	64	12	35	60	78	28	43	9	9
32	112	30	82	40	50	70	70	90	90	110	110	30	-	76	14	44	75	96	36	53	10	11.5

Bore\Sign	S	T	V	W	P1	P2	P3	P4	P5	P6	P7
6	37	16	4	-	Φ6.5 Dp:3.3;Thru.hole:Φ3.4	-	M3X0.5	M3X0.5	M3X0.5	M3X0.5 Dp:4.5	M5X0.8
10	46	17	6	-	Φ6.5 Dp:3.3;Thru.hole:Φ3.4	M4X0.7 Dp:7	M4X0.7	M3X0.5	M5X0.8	M3X0.5 Dp:5	M5X0.8
16	58	20	8	-	Φ8 Dp:4.4;Thru.hole:Φ4.3	M5X0.8 Dp:8	M5X0.8	M4X0.7	M6X1.0	M4X0.7 Dp:5	M5X0.8
20	64	25	10	9.5	Φ9.5 Dp:5.3;Thru.hole:Φ5.2	M6X1.0 Dp:10	M5X0.8	M4X0.7 Dp:6	M8X1.25	M4X0.7 Dp:5.5	M5X0.8
25	80	30	12	13	Φ11 Dp:6.3;Thru.hole:Φ6.8	M8X1.25 Dp:12	M6X1.0	M5X0.8 Dp:7.5	M8X1.25	M5X0.8 Dp:7	1/8"
32	98	38	16	20	Φ11 Dp:6.3;Thru.hole:Φ6.8	M8X1.25 Dp:12	M6X1.0	M5X0.8 Dp:8	M10X1.5	M5X0.8 Dp:7	1/8"