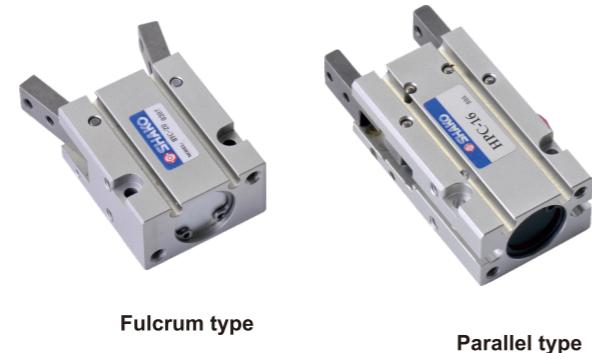


■ Features

1. The gripper open and close are controlled by pneumatic system.
2. Miniature design, space saving.
3. Sensor installation is available.



■ How to order

HYC	32	SR	D	1
Mini chuck	Bore size	Sensor	Type	Number of sensor
HPC:Parallel type	10 : Ø10	Blank :W/O sensor	Blank:Reed switch	1 pc
HYC:Fulcrum type	16 : Ø16	SR :Round type	D:NPN	2 pcs
	20 : Ø20		E:PNP	
	25 : Ø25			
	32 : Ø32	SU :Square type		

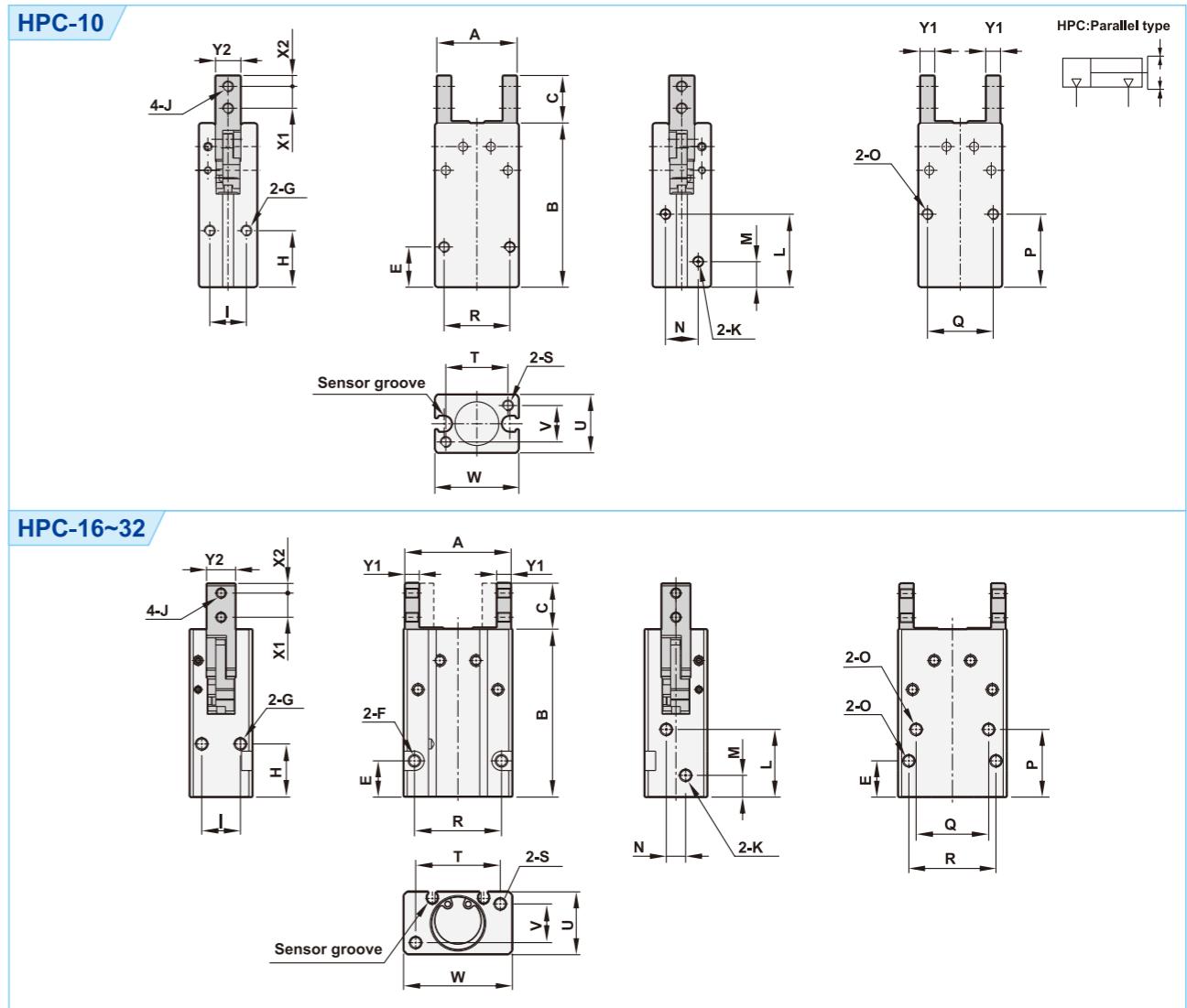
AL-07
AL-16

*Sensor please refer to P3-191, P3-193

■ Specifications

Bore size	Ø10	Ø16	Ø20	Ø25	Ø32
Port size	M3			M5	
Gripping gap distance (For HPC)	4mm	8mm	12mm	14mm	16mm
Gripping force (For HPC)	5N	17.6N	34.3N	58.8N	83.3N
Operating angle (For HYC)			-10° ~ +30°		
Fluid			Compressed air		
Acting			Double acting		
Operating pressure range			1.5 ~ 7 kgf/cm²		
Max. operating pressure			10.5 kgf/cm²		
Lubrication			Not required or few		
Body material			Aluminum alloy		
Magnet			Built-in		
Ambient temperature			0°C ~ 60°C		
Operating frequency			50 ~ 700 mm/Sec.		

■ Dimensions



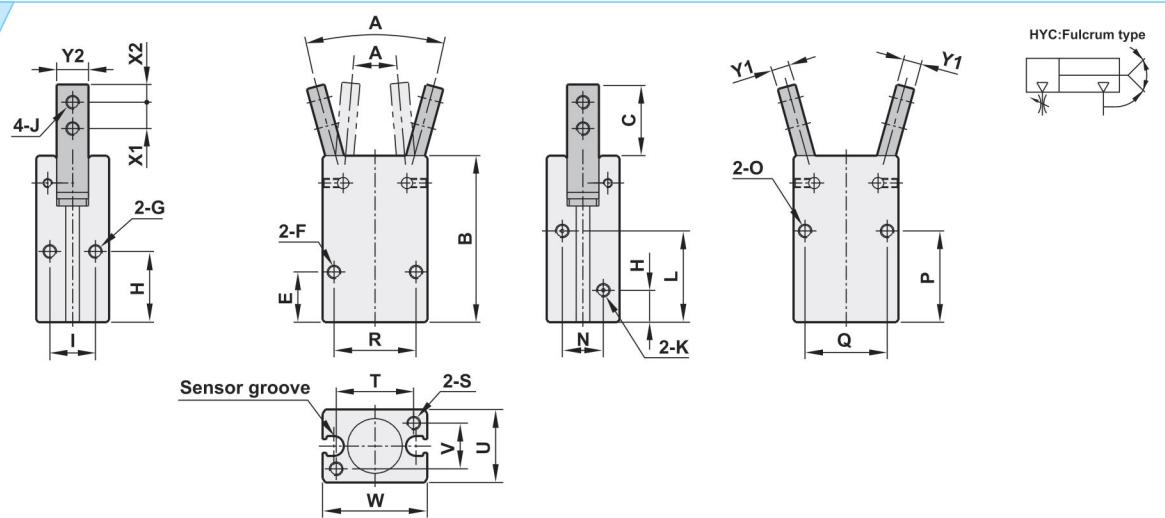
Pneumatic Actuators Mini Gripper HPS HYC SRGN SRZN

Model	A			B	C	E	F			G	H	I	J
	Open	Closed											
HPC-10	22°	18°	45	13	11	M3xP0.5xL8.0				M3xP0.5xDepth5.0	15.5	10	M3xP0.5 through
HPC-16	33°	25°	58.5	15	14	Ø3.4 through, Ø6 Counter bore x Depth 3.5				M4xP0.7xDepth8.0	21	14	M3xP0.5 through
HPC-20	44°	32°	69.5	19	15	Ø4.3 through, Ø8 Counter bore x Depth 4.6				M5xP0.8xDepth10.0	22	16	M4xP0.7 through
HPC-25	51°	37°	79.5	24	16	Ø5.3 through, Ø9.5 Counter bore x Depth 5.5				M6xP1.0xDepth12.0	24.5	20	M5xP0.8 through
HPC-32	60°	44°	88	31	18	Ø5.3 through, Ø9.5 Counter bore x Depth 5.5				M6xP1.0xDepth15.0	30	26	M6xP1.0 through

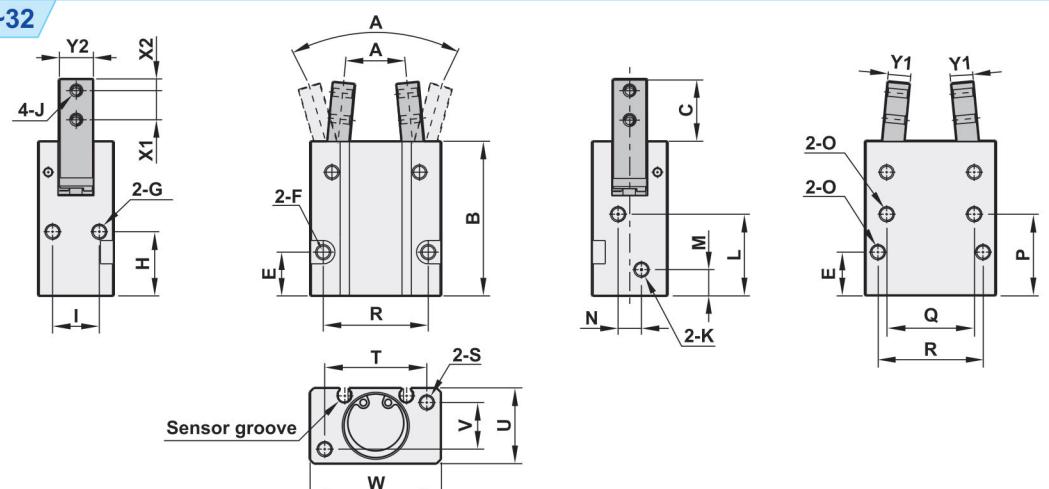
Model	K	L	M	N	O	P	Q	R	S	T	U	V	W	X1	X2	Y1	Y2
HPC-10	M3xP0.5	20	7	6	M3xP0.5xL8.0	20	18	18	M3xP0.5xL5.0	17	16	10	23	6	3	4	7
HPC-16	M5xP0.8	23	8	6	M4xP0.7xL8.0	25.5	24	28	M4xP0.7xL8.0	26	22	14	34	8	3	4	11
HPC-20	M5xP0.8	28	9	8	M5xP0.8xL10.0	28	30	36	M5xP0.8xL10.0	35	26	16	45	10	4	6	12
HPC-25	M5xP0.8	30.5	9.5	18	M6xP1.0xL12.0	31.5	36	40	M6xP1.0xL10.0	40	32	20	52	12	5	8	14
HPC-32	M5xP0.8	34	10	24	M6xP1.0xL15.0	37.5	44	50	M6xP1.0xL10.0	46	40	26	60	15	7	9	18

Dimensions

HYC-10



HYC-16~32



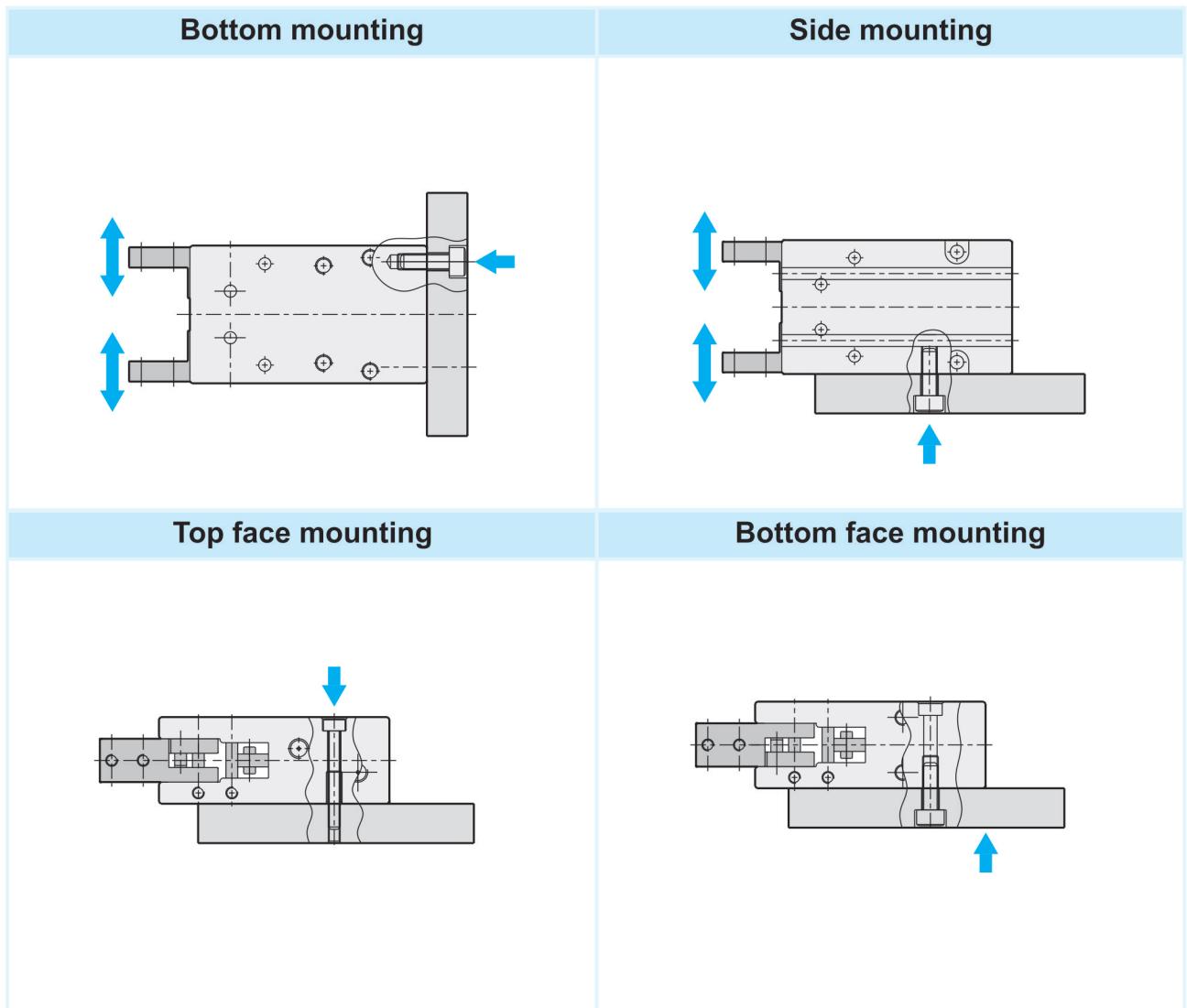
Model	A		B	C	E	F	G	H	I	J	(Unit: mm)
	Open	Closed									
HYC-10	30°	-10°	36.5	15.7	11	M3xP0.5xL8.0	M3xP0.5xL5.0	15.5	10	M3xP0.5 through	
HYC-16	30°	-10°	45.5	15.8	14	φ 3.4 through, φ 6 Counter bore x L3.5	M4xP0.7xL8.0	21	14	M3xP0.5 through	
HYC-20	30°	-10°	53	22	15	φ 4.2 through, φ 8 Counter bore x L4.6	M5xP0.8xL10.0	22	16	M4xP0.7 through	
HYC-25	30°	-10°	61	26	16	φ 5.3 through, φ 9.5 Counter bore x L5.5	M6xP1.0xL12.0	24.5	20	M5xP0.8 through	
HYC-32	30°	-10°	68	30	18	φ 5.3 through, φ 9.5 Counter bore x L5.5	M6xP1.0xL15.0	30	26	M6xP1.0 through	

Model	K	L	M	N	O	P	Q	R	S	T	U	V	W	X1	X2	Y1	Y2
HYC-10	M3xP0.5	20	7	9	M3xP0.5xL8.0	20	18	18	M3xP0.5xL8.0	17	16	10	23	6	3	4	7
HYC-16	M5xP0.8	23	8	6	M4xP0.7xL8.0	25.5	24	28	M4xP0.7xL8.0	26	22	14	34	8	3	6	9
HYC-20	M5xP0.8	28	9	8	M5xP0.8xL10.0	28	30	36	M5xP0.8xL10.0	35	26	16	45	10	4	7	12
HYC-25	M5xP0.8	30.5	9.5	18	M6xP1.0xL12.0	31.5	36	40	M6xP1.0xL10.0	40	32	20	52	12	5	9	14
HYC-32	M5xP0.8	34	10	24	M6xP1.0xL15.0	37.5	44	50	M6xP1.0xL10.0	46	40	26	60	14	6	10	18

Theoretical force

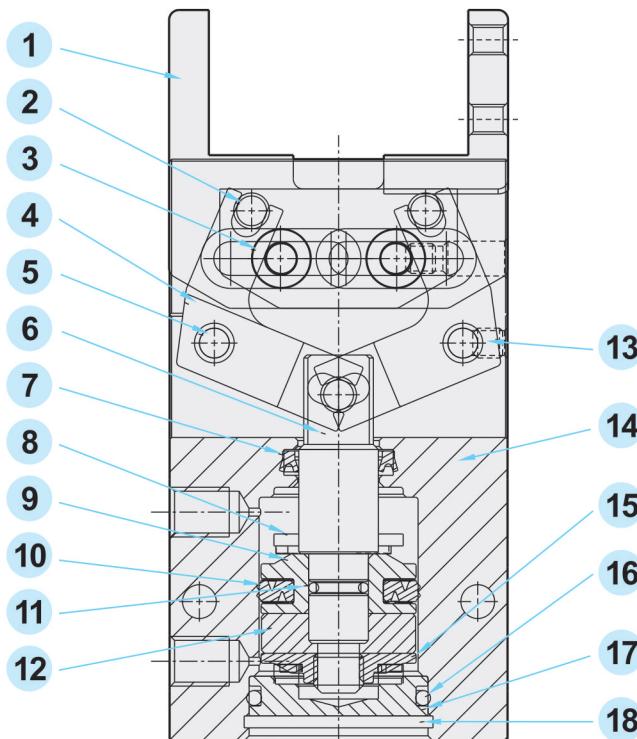
Bore size	Piston area cm ²	Operating pressure kgf/cm ²					
		2	3	4	5	6	7
φ 10	0.79	1.58	2.37	3.16	3.95	4.74	5.53
φ 16	2.01	4.02	6.03	8.04	10.5	12.06	14.07
φ 20	3.14	6.28	9.42	12.56	157	18.84	21.98
φ 25	4.91	9.82	14.73	19.64	24.55	29.46	34.37
φ 32	8.04	16.08	24.12	32.16	40.2	48.24	56.28

Mounting example

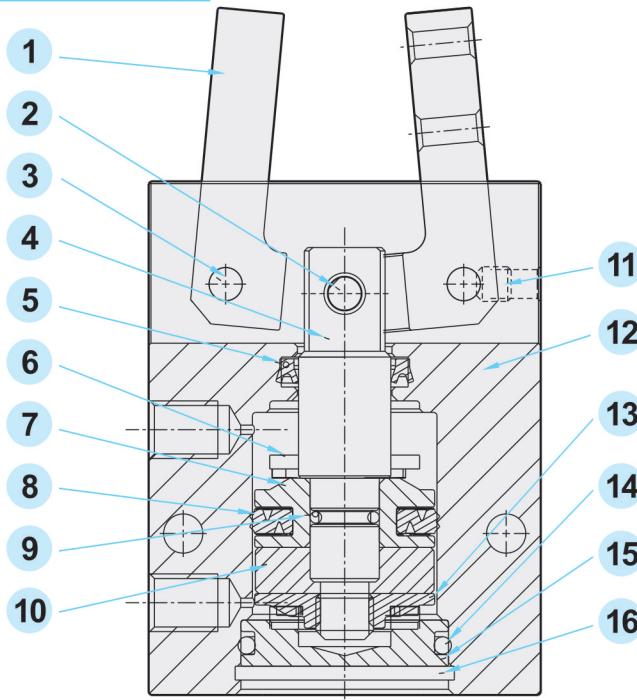


Pneumatic Actuators Mini Gripper HPS HYC SRGN SRZN

■ Material of parts

HPC: Parallel type


No.	Description	Material	Qty
1	Gripper	Stainless steel	2
2	Pin	Carbon steel	3
3	Roller	Carbon steel	4
4	Lever	Stainless steel	2
5	Lever shaft	Carbon steel	4
6	Piston rod	S45C+Cr	1
7	U-ring	NBR	1
8	Gasket	NBR	2
9	Piston	Aluminum alloy	1
10	U-piston seal	NBR	1
11	O-ring	NBR	1
12	Magnet	Ferrite magnet	1
13	Plug	Carbon steel	4
14	Body	Aluminum alloy	1
15	Magnet holder	Aluminum alloy	1
16	O-ring	NBR	1
17	End cover	Aluminum alloy	1
18	C type snap ring	Fe+Ni	1

HYC: Fulcrum type


No.	Description	Material	Qty
1	Gripper	Stainless steel	2
2	Pin	Carbon steel	1
3	Lever shaft	Carbon steel	2
4	Piston rod	S45C+Cr	1
5	U-ring	NBR	1
6	Gasket	NBR	2
7	Piston	Aluminum alloy	1
8	U-piston ring	NBR	1
9	O-ring	NBR	1
10	Magnet	Ferrite magnet	1
11	Plug	Carbon steel	2
12	Body	Aluminum alloy	1
13	Magnet holder	Aluminum alloy	1
14	O-ring	NBR	1
15	End cover	Aluminum alloy	1
16	C type snap ring	Fe+Ni	1

Memo..

Pneumatic Actuators	Mini Gripper
HPS	HYC
SRGN	SRZN


www.shako.com.tw