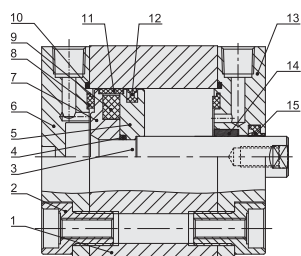


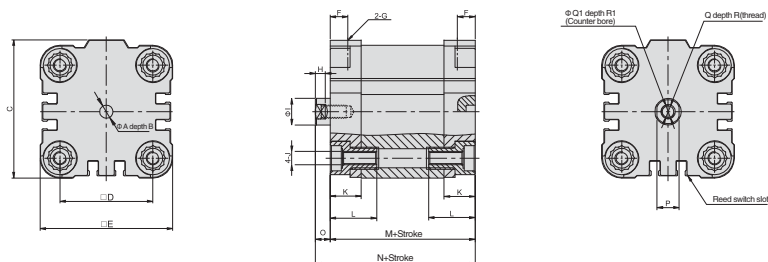
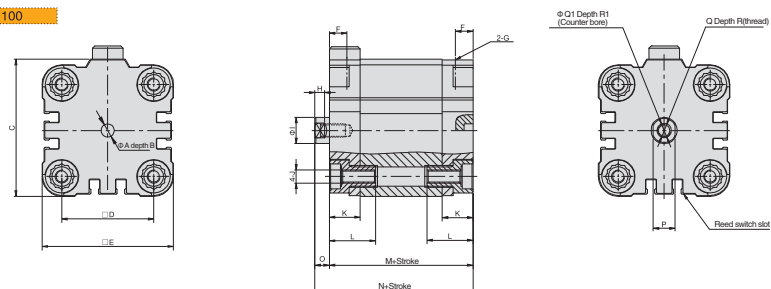
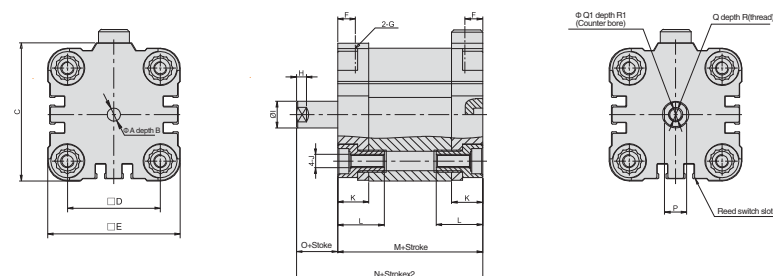
Internal Structure

1



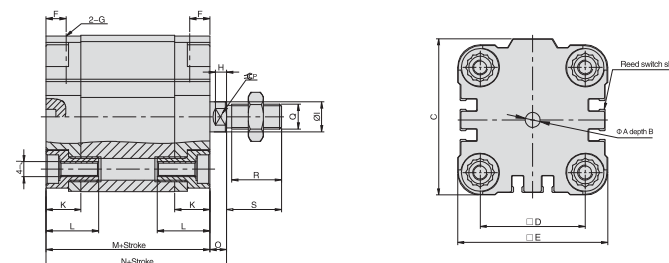
No	Part Name	Material
1	Ontology alloy	Aluminum alloy
2	Screws	Carbon steel
3	Piston rod	Stainless steel Φ 12- Φ 25/S45C(else)
4	O-ring	NBR
5	Piston	Aluminum alloy
6	Rear cover	Aluminum alloy
7	Magnet base	Aluminum alloy
8	Bumper	TPU
9	Magnet	Sintered NdFeB(Φ 12- Φ 32)/Plastic(else)
10	O-ring	NBR
11	Wear ring	Nothing(Φ 12- Φ 32)/PTEE(else)
12	Piston seal	NBR
13	Head cover	Aluminum alloy
14	Bearing	Nothing(Φ 12- Φ 32)/Bronze powder(else)
15	Head cover	TPU

Main Dimensions (Female thread type)

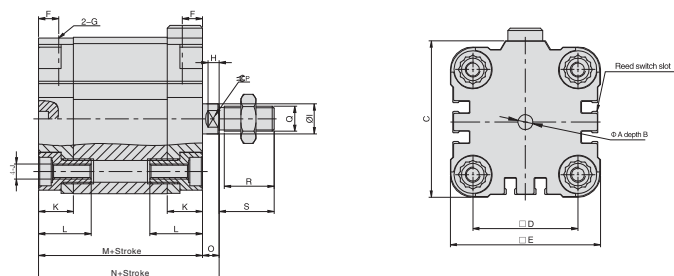
SE Φ 12- Φ 100

SESB Φ 12- Φ 100

SESA Φ 12- Φ 100


内径	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Q1	R	R1
12	6	4	30	18	29	7	M5X0.8	3	6	M4X0.7	11.5	18	38	42.5	4.5	5	M3X0.5	3.3	8	1.5
16	6	4	30	18	29	7	M5X0.8	3	8	M4X0.7	11.5	18	38	42.5	4.5	6	M4X0.7	4.5	10	1.5
20	6	4	37.5	22	36	7	M5X0.8	3	10	M5X0.8	11.5	18	38	42.5	4.5	8	M5X0.8	5.5	12	2
25	6	4	41.5	26	40	7	M5X0.8	4	10	M5X0.8	11.5	18	39.5	45	5.5	8	M5X0.8	5.5	12	2
32	6	4	52	32	50	8	1/8"	4.5	12	M6X1.0	14	21	44.5	50.5	6	10	M6X1.0	6.5	14	2.6
40	6	4	62.5	42	60	8	1/8"	4.5	12	M6X1.0	14	21	45.5	52	6.5	10	M6X1.0	6.5	14	2.6
50	6	4	71	50	68	8	1/8"	5	16	M8X1.25	14	21.5	45.5	53	7.5	13	M8X1.25	8.5	16	3.3
63	8	4	91	62	87	8	1/8"	5	16	M10X1.5	15	24	50	57.5	7.5	13	M8X1.25	8.5	16	3.3
80	8	4	111	82	107	8.5	1/8"	5.5	20	M10X1.5	16	27	56	64	8	17	M10X1.5	10.5	20	4.7
100	8	4	133	103	128	10.5	1/4"	7.5	25	M10X1.5	20	32	66.5	76.5	10	22	M12X1.75	12.5	24	6.1

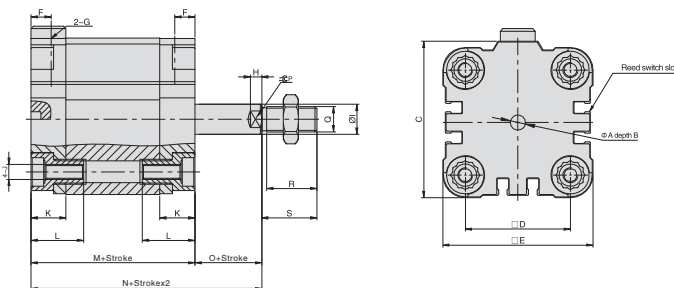
Main Dimensions (Female thread type)

SE Φ 12- Φ 100-M


SESB012-0100-M



SESA012-0100-M



Bore size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
12	6	4	30	18	29	7	M5X0.8	3	6	M4X0.7	11.5	18	38	42.5	4.5	5	M6X1.0	15	16
16	6	4	30	18	29	7	M5X0.8	3	8	M4X0.7	11.5	18	38	42.5	4.5	6	M8X1.25	19	20
20	6	4	37.5	22	36	7	M5X0.8	3	10	M5X0.8	11.5	18	38	42.5	4.5	8	M10X1.25	20	22
25	6	4	41.5	26	40	7	M5X0.8	4	10	M5X0.8	11.5	18	39.5	45	5.5	8	M10X1.25	20	22
32	6	4	52	32	50	8	1/8"	4.5	12	M6X1.0	14	21	44.5	50.5	6	10	M10X1.25	20	22
40	6	4	62.5	42	60	8	1/8"	4.5	12	M6X1.0	14	21	45.5	52	6.5	10	M10X1.25	20	22
50	6	4	71	50	68	8	1/8"	5	16	M8X1.25	14	21.5	45.5	53	7.5	13	M12X1.25	22	24
63	8	4	91	62	87	8	1/8"	5	16	M10X1.5	15	24	50	57.5	7.5	13	M12X1.25	22	24
80	8	4	111	82	107	8.5	1/8"	5.5	20	M10X1.5	16	27	56	64	8	17	M16X1.5	30	32
100	8	4	133	103	128	10.5	1/4"	7.5	25	M10X1.5	20	32	66.5	76.5	10	22	M20X1.5	38	40

How to Order?

Series No	Type No	Bore	X	Stroke	Adjustable stroke	Magnet No	Piston Rod thread type	Thread type
SF	Blank: Basic type D: Double shaft type J: Double shaft and adjustable stroke type SA: Single acting spring extend SB: Single acting spring return	20 25 32 ...	...	5 10 15 20 ...	10 20 30 40 50 75 100	Blank: No magnet S: With magnet	Blank: Female thread M: Male thread N: No thread	Blank: G P: PT T: NPT

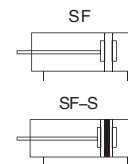
Order Example:

SF Series basic cylinder, 25mm bore, 50mm stroke, with magnet, male thread on piston rod, G thread
ERP code is: SF25X50-S-M

Specifications

Bore size(mm)	20	25	32	40	50	63	80	100
Acting type	Double acting/Single acting							
Working medium	Clean Air(40 μm filtration)							
Working pressure(MPa)	0.1~1.0(Double acting) / 0.2~1.0(Single acting)(MPa)							
Guaranteed pressure(MPa)	1.5(MPa)							
Working temperature(°C)	-20~80(Dry air)							
Speed range(mm/s)	30~500							
Cushion type	Bumper							
Port size	M5X0.8				G1/8 ①			

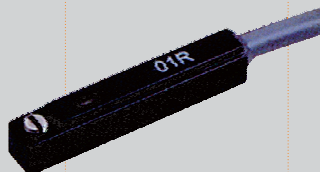
①NPT、PT port size is optional.



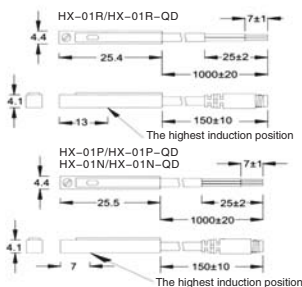
How to Order?

HX	-	01	-	R	-	H	-	2M	-	QD8
Product code		Series No.		Special model		Wire length		Connection		
Switch type		No.: Standard sensitive		No.: Standard 1M		1.5M: 1.5M		QD8: QD8 Male fitting		
R: Two wire reed switch		B: NC type		2M: 2M		5M: 5M				
N: NPT type		H: High sensitive type								
P: PNP type		L: Low sensitive type								
		X: No indicator type								

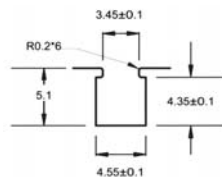
Note: 1. Testing with standard magnet: $\Phi 15.5 \times \Phi 8 \times 5$ (Plastic magnet);
 2. Sine wave/X, Y, Z axial direction/ each axial direction three times/ each time 11ms;
 3. complex amplitude 1.5mm/10Hz~55Hz sweep frequency, last one minute/ each time X, Y, Z axial direction for one hour;
 4. 1=No/2=output short circuit protection/3=Power reverse connection protection/4=Surge absorption protection



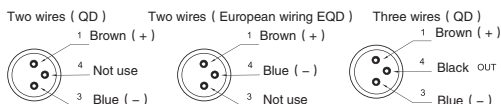
Dimensions



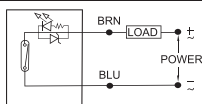
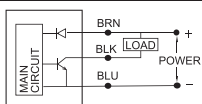
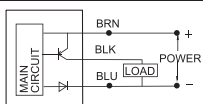
Groove dimension



QD fitting wiring



Specification

Type	HX-01R	HX-01N	HX-01P
Connect Diagram			
Parameter			
Wiring method	2-Wire Type	3-Wire Type	
Switching logic	SPST Normally Open	Solid State Output, Normally Open	
Sensor type	Reed switch	NPN type (Input)	PNP type (Output)
Operating voltage	5-240V DC/AC	5-30V DC	
Max. switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA @ 24V DC max.	
Voltage drop	2.5 V max.	0.5V @ 200mA max	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Max. exchange frequency	200Hz	1000Hz	
Temperature range		-10 ~ 70℃	
Shock	30G	9G	50G
Vibration			
Enclosure classification		IEC 529 IP67 (NEMA 6)	
Protection circuit	None	Power reverse connection protection Surge absorption protection	
Cable	2.8Φ, 2C, Gray color, oil resistance PVC	2.8Φ, 3C, Black color, oil resistance PVC	