

How to Order ?

Series No	Cushion Type	Type No	Bore X	Stroke	Adjustable stroke	Magnet No	Tail type	Mounting type	Thread type
RA	C: Air cushion Blank: Rubber cushion	16 20 25 32 40	16 20 25 32 40	25 50 75 100 ...	10 20 30 40 50 75 100	S: With Magnet	Blank: Swiveling tail U: Flat tail CM: Round tail	Blank: No LB FA SDB IJ YJ BJ ...	Blank: G P: PT T: NPT

Order Example:
 RA series, Double shaft and adjustable stroke type, air cushion, Bore 32mm, stroke 25mm, Adjustable stroke 20, with magnet, NO Mounting type, Round tail, PT thread.
 ERP code is: RACJ32*25-20-S-CM-P
 Note: 1. If cylinder with several different mounting accessories, pls with this sequential coding: LB/FA/SDB /IJ/YJ/BJ
 2. RA series always with magnet.

Specifications

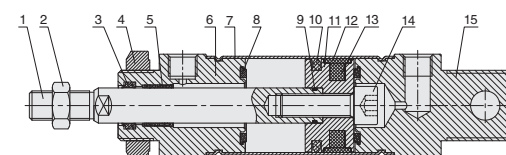
Bore size(mm)	16	20	25	32	40
Acting type	Double Acting/Single Acting				
Working medium	Clean Air(40 μm filtration)				
Working pressure (MPa)	0.1-0.7(Double Acting) / 0.2-0.7(Single Acting)				
Guaranteed pressure (MPa)	1.5				
Working temperature (°C)	-20~80(Dry air)				
Speed range (mm/s)	50~800				
Cushion type	Fixed cushion/ Adjustable cushion				
Barrel material	Stainless steel				
Mounting type	LB FA SDB				
Port size	M5 x0.8	G1/8			

● NPT, PT port size is optional.

Stroke

	Bore (mm)	Standard stroke (mm)	Max. stroke (mm)
Double Acting	16	25 50 75 80 100 125 150 160 175 200	500
Acting	20-40	25 50 75 80 100 125 150 160 175 200 250 300	800
Single Acting	16	25 50 75 100	100
Acting	20-40	25 50 75 100	150

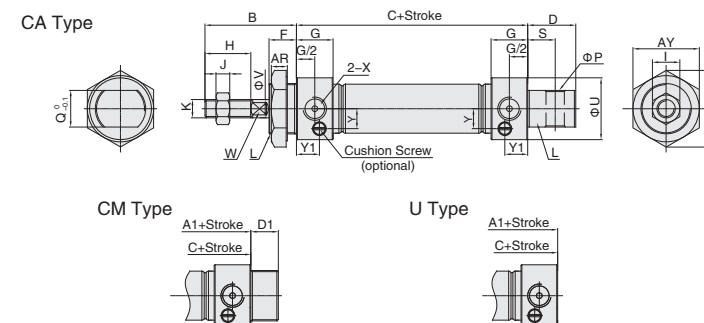
Internal Structure



NO.	Part name	Material
1	Piston rod	S45C hard chrome carbon steel
2	Nut	Carbon steel
3	Piston rod seal	NBR
4	Nut	Carbon steel
5	Self lubricating bearing	Bronze powder
6	Head cover	Aluminum alloy
7	Barrel	Stainless Steel
8	Anti-bump cushion	TPU
9	O-ring	NBR
10	Piston seal	NBR
11	Piston	Aluminum alloy
12	Wear ring	PTFE
13	Magnet	Plastic
14	Hexagon screw	Carbon steel
15	Rear cover	Aluminum alloy

Main dimensions

RA Φ16-Φ40

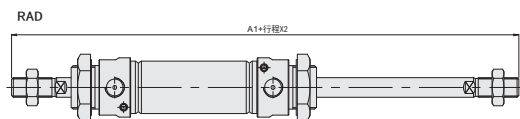


Bore/Sign	A1	B	C	D	D1	F	G	H	I	J	K	Y1	L	P	Q	S	U	V	W	X	AX	AY	Y
16	98	38	60	16	16	16	10	16	10	5	M6X1.0	7	M16X1.5	6	12	9	21	6	5	M5X0.8	25	22	6.5
20	116	40	76	21	12	12	16	20	12	6	M8X1.25	12.5	M22X1.5	8	16	12	27	8	6	1/8"	33	29	8
25	120	44	76	21	14	14	16	22	17	6	M10X1.25	12.5	M22X1.5	8	16	12	30	10	8	1/8"	33	29	10
32	120	44	76	27	14	14	16	22	17	6	M10X1.25	12	M24X2.0	10	16	15	35	12	10	1/8"	37	32	12
40	122	46	76	27	14	14	17	24	17	7	M12X1.25	13	M30X2.0	12	20	15	42	16	14	1/8"	47	41	16

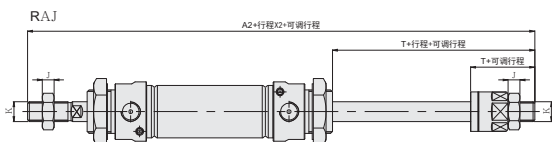
Note: With magnet and without magnet, the dimensions are same.

Main dimensions

RAD $\Phi 16-\Phi 40$



RAJ $\Phi 16-\Phi 40$



Bore/Sign	A1	A2	J	K	T
16	136	135	5	M6X1.0	21
20	156	153	6	M8X1.25	25
25	164	161	6	M10X1.25	27
32	164	161	6	M10X1.25	27
40	168	164	7	M12X1.25	28

Note: Unlabeled the same size as standard type.

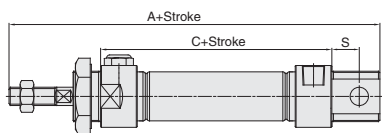
RASB $\Phi 16-\Phi 40$



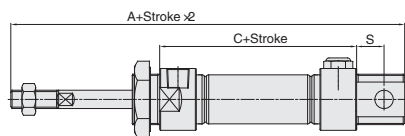
RASA $\Phi 16-\Phi 40$



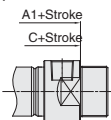
CA Type



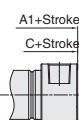
CA Type



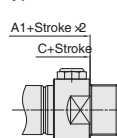
CM Type



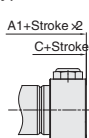
U Type



CM Type



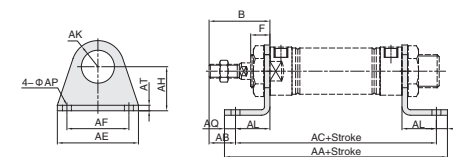
U Type



Bore/Sign	A			A1			C			S
	0-50	51-100	101-150	0-50	51-100	101-150	0-50	51-100	101-150	
16	139	164	-	123	148	-	85	110	-	9
20	162	187	212	141	166	191	101	126	151	12
25	166	191	216	145	170	195	101	126	151	12
32	172	197	222	145	170	195	101	126	151	15
40	174	199	224	147	172	197	101	126	151	15

Note: Unlabeled the same size as standard type.

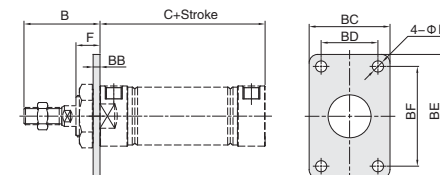
Dimensions of LB Type



Model/Sign	B		F		AA		AA(RALS)			AA(RAS)			AB	
	RAL	RA	RAL	RA	RAL	RA	0-50	51-100	101-150	0-50	51-100	101-150	RAL	RA
FJ-RA16LB	36	38	14	16	96	100	121	146	-	125	150	-	22	24
FJ-RA20LB	40	40	12	12	118	124	143	168	193	149	174	199	24	24
FJ-RA25LB	44	44	14	14	118	124	143	168	193	149	174	199	28	28
FJ-RA32LB	44	44	14	14	138	144	163	188	213	169	194	219	18	18
FJ-RA40LB	46	46	14	14	162	146	187	212	237	171	196	221	19	19

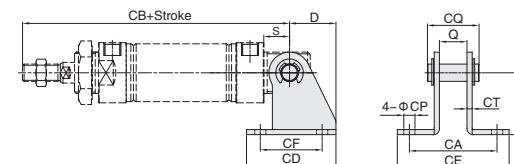
Model/Sign	AC		AC(RALS)			AC(RAS)			AE	AF	AH	AK	AL	AP	AQ	AT
	RAL	RA	0-50	51-100	101-150	0-50	51-100	101-150								
FJ-RA16LB	84	88	109	134	-	113	138	-	44	32	20	14	14	5.5	6	3
FJ-RA20LB	102	108	127	152	177	133	158	183	54	40	25	17	16	6.5	8	3
FJ-RA25LB	102	108	127	152	177	133	158	183	54	40	25	17	16	6.5	8	3
FJ-RA32LB	122	128	147	172	197	153	178	203	59	45	32	19	26	6.5	8	3
FJ-RA40LB	146	130	171	196	221	155	180	205	64	50	36	23	27	6.5	8	3

Dimensions of FA Type



Model/Sign	B		C		C(RALS)			C(RAS)			BB	BC	BD	BE	BF	BP	F	
	RAL	RA	RAL	RA	0-50	51-100	101-150	0-50	51-100	101-150							RAL	RA
FJ-RA16FA	36	38	56	60	81	106	-	85	110	-	3	26	-	52	40	5.5	14	16
FJ-RA20FA	40	40	70	76	95	120	145	101	126	151	4	33	-	64	50	6.5	12	12
FJ-RA25FA	44	44	70	76	95	120	145	101	126	151	4	33	-	64	50	6.5	14	14
FJ-RA32FA	44	44	70	76	95	120	145	101	126	151	4	47	33	72	58	6.5	14	14
FJ-RA40FA	46	46	92	76	117	142	167	101	126	151	4	50	36	84	70	6.5	14	14

Dimensions of SDB type



Model/Sign	D	S		Q	CA	CB			CB(RALS)			CB(RAS)			CD	CE	CF	CH	CP	CQ	CT
		RAL	RA			0-50	51-100	101-150	0-50	51-100	101-150										
FJ-RA16SDB	18	7	9	12.1	42.1	99	107	124	149	-	132	157	-	36	55.1	24	25.5	5.5	22.5	3	
FJ-RA20SDB	24.5	12	12	16.1	51.1	122	128	147	172	197	153	178	203	48	66.1	32	32	6.5	27	3	
FJ-RA25SDB	24.5	12	12	16.1	51.1	126	132	151	176	201	157	182	207	48	66.1	32	32	6.5	27	3	
FJ-RA32SDB	27	15	15	16.1	50.1	129	135	154	179	204	160	185	210	52	65.1	36	35.5	6.5	27.5	3	
FJ-RA40SDB	27	15	15	20.1	52.1	153	137	178	203	228	162	187	212	56	69.1	40	40	6.5	32.5	3	

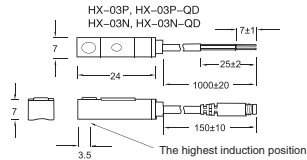
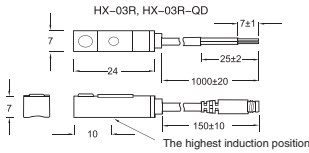


How to Order?

HX	-	03	-	R	-	H	-	2M	-	QD8
Product code		Series No.			Special model			Wire length		Connection
					No.: Standard sensitive			No: Standard 1M		QD8: QD8 Male fitting
					B: NC type			1.5M: 1.5M		
					H: High sensitive type			2M: 2M		
					L: Low sensitive type			5M: 5M		
					X: No indicator type					
Switch type										
R: Two wire reed switch										
N: NPT type										
P: PNP type										

- Note: 1. Testing with standard magnet: $\Phi 15.5 \times \Phi 8 \times 5$ (Plastic magnet) ;
 2. Sine wave/X, Y, Z3 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

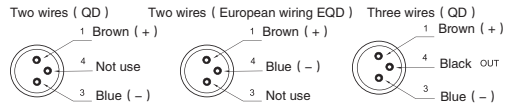


HX-03 be fixed by PBK steel belt



For $\Phi 6 - \Phi 63$ round air cylinder

QD fitting wiring

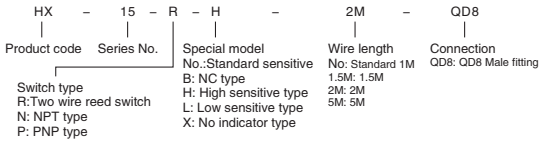


Specification

Type	HX-03R	HX-03N	HX-03P
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	200mA	
Contact rating	10W	6W	
Current consumption	None	20mA max @ 24V	
Voltage drop	3.0V	0.5V max @ 200mA	
Leakage current	None	0.01mA	
Indicator	Red LED	Red LED	Green LED
Max. exchange frequency	200Hz	1000Hz	
Temperature range		-10 - 70°C	
Shock	30G	50G	
Vibration		9G	
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

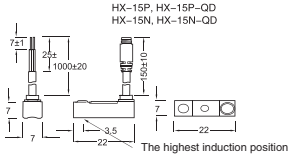
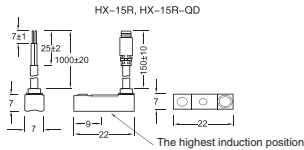


How to Order?



- Note: 1. Testing with standard magnet: $\Phi 15.5 \times \Phi 8 \times 5$ (Plastic magnet);
 2. Sine wave/X, Y, Z3 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

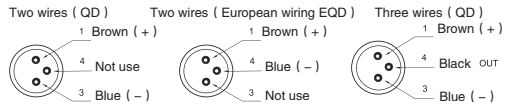


HX-15 be fixed by PBK steel belt



For $\Phi 6-\Phi 63$ round air cylinder

QD fitting wiring



Specification

Type	HX-15R	HX-15N	HX-15P
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	100 mA max.	200 mA max.	
Contact rating	10 W max.	6 W max.	
Current consumption	None	20mA @ 24V DC max	
Voltage drop	3.0V max.	0.5V @ 200mA max	
Leakage current	None	0.01mA max.	
Indicator	Green LED	Red LED	
Max. exchange frequency	200Hz	1000Hz	
Temperature range		-10 - 70°C	
Shock	30G		50G
Vibration		9G	
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	