

## FVBC

### Standard Cylinder



### Specifications

Bore Size (mm)	32	40	50	63	80	100
Acting type	Double Acting					
Working medium	Clean Air(40 μ m filtration)					
Working pressure (MPa)	0.1~1.0					
Guaranteed pressure (MPa)	1.5					
Working temperature (°C)	-20~80(No freezing)					
Speed range (mm/s)	50~800					
Cushion type	Air Cushion					
Cushion stroke (mm)	27		30		36	
Mounting type	LB FA FB CA CB CR					
Port size ①	G1/8		G1/4		G3/8 G1/2	

① PT, NPT port size is optional.

### How to Order?

Series No.	Cushion Type	Type No.	Bore	X	Stroke	Adjustable Stroke	Magnet No.	Seal Material	Mounting Type	Thread Type
FVB: Square type barrel	C: Air cushion	32	25	10	Blank: No magnet S: With magnet		Blank: TPU seal	Blank: No CA CB IJ CR YJ LB YCJ FA BJ FB FD	Blank: G P: PT T: NPT	
		40	50	20						
		50	75	30						
		63	...	40						
		80		50						
	Blank: Basic type	100		75						
	D: Double shaft type			100						
	J: Double shaft and adjustable stroke type									

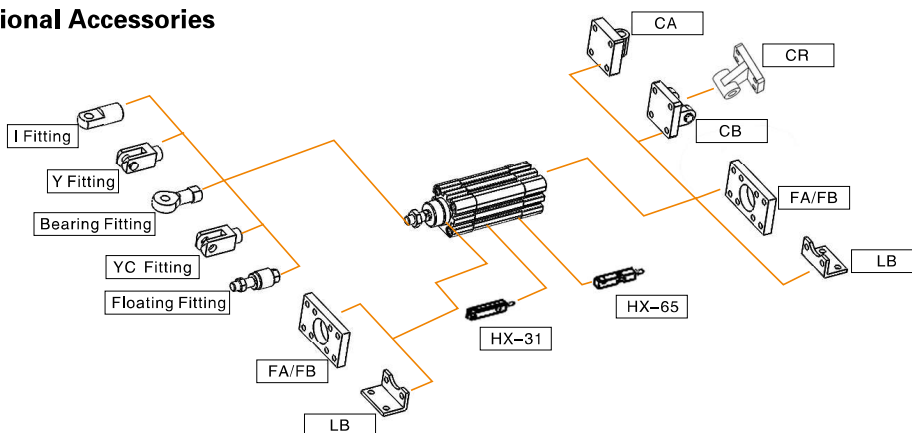
#### Order Example:

FVBC series, double shaft air cylinder, Bore 40mm, stroke 50mm, with magnet, TPU seal material, CA mounting accessory, NPT thread.

ERP code is: FVBCD 40X50-S-CA-T

Note: If cylinder with several different mounting accessories, please use this sequential coding: CA/CB/CR/LB/FA/FB/IJ/YJ/BJ/FD

### Optional Accessories



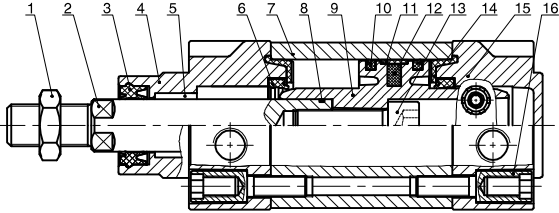
### Stroke

Bore (mm)	Standard Stroke (mm)	Max. Stroke (mm)
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1900
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1900
50~100	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1900

# FVBC Series ISO15552 Standard Cylinder



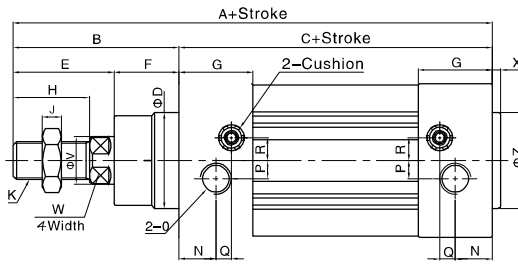
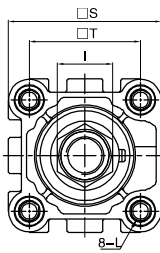
## Internal Structure



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

## Main Dimension

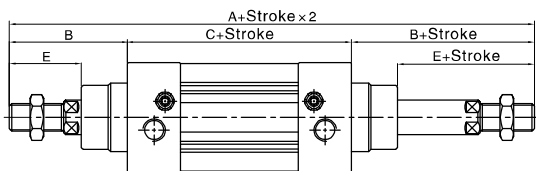
FVBC



Bore/Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	X	Z
32	142	48	94	30	29	19	27.5	22	17	6	M10x1.25	M6 Dp.16	13	1/8"	5.5	6	6	46.5	32.5	12	10	3	30
40	159	54	105	35	33	21	32	24	17	7	M12x1.25	M6 Dp.16	17	1/4"	6	7.5	8.5	54	38	16	13	3.5	35
50	175	69	106	40	42	27	31	32	23	8	M16x1.5	M8 Dp.16	15.5	1/4"	7.5	6.5	9.5	64	46.5	20	17	3.5	40
63	190	69	121	45	42	27	33	32	23	8	M16x1.5	M8 Dp.16	16.5	3/8"	7.5	7.5	11.5	75	56.5	20	17	4	45
80	214	86	128	45	53	33	33	40	26	10	M20x1.5	M10 Dp.17	16.5	3/8"	8	8.5	12.5	93	72	25	22	4	45
100	229	91	138	55	55	36	37	40	26	10	M20x1.5	M10 Dp.17	19.5	1/2"	10	7	12	110	89	25	22	4	55

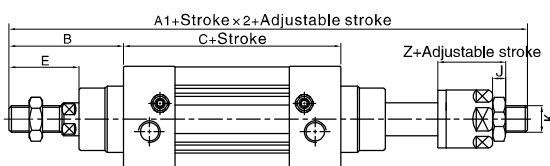
Note: With magnet and without magnet, the dimensions are same.

FVBCD



Bore/Sign	A	A1	B	C	E	Z	J	K
32	190	188	48	94	29	27	6	M10x1.25
40	213	208	54	105	33	28	7	M12x1.25
50	244	233	69	106	42	31	8	M16x1.5
63	259	248	69	121	42	31	8	M16x1.5
80	300	286	86	128	53	39	10	M20x1.5
100	320	304	91	138	55	39	10	M20x1.5

FVBCJ



Note: 1. With magnet and no magnet, the dimensions are same.  
2. Not marked dimension is same as FVBC standard type.  
3. FXBC series dimensions is same as FVBC.