MSE Series ISO15552 Cylinders

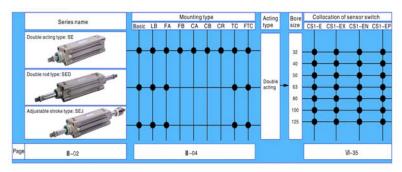
The MSE - Series Cylinders conform to ISO15552 and use pressure assisted Polyurethane seals for service long life. All cylinders have magnetic pistons and end of stroke cushions as standard. The range may be used with a variety of position sensors.



Product Features

- 1. Conforming to ISO15552 and VDMA24562 standards.
- 2. Pressure assisted Piston and Rod Polyurethane seals.
- 3. Square profile clean-line Barrel.
- 4. Smooth action cushions at each end.
- 5. Magnetic pistons for position sensors.
- 6. Substantial range of cylinder mounting accessories.

Product Series



Theoretical Load values

Bore	Rod	0.00	an han	Pressure	1 VII	15	Ope	erating pr	essure	(MF	a)	. x	- 1
size(mm)	size(mm)	ACI	ing type	area (mm²)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
32	12		Push side	804	80.4	160.8	241.2	321.6	402.0	482.4	562.8	643.2	723.€
32	12		Pull side	690	69.0	138.0	207.0	276.0	345.0	414.0	483.0	552.0	621.0
40	16		Push side	1256	125.6	251.2	376.8	502.4	628.0	753.6	879.2	1002.4	1130.4
40	10		Pull side	1055	105.5	211.0	316.5	422.0	527.5	633.0	738.5	844.0	949.5
50	20		Push side	1963	196.3	392.6	588.9	785.2	981.5	1177.8	1374.1	1570.4	1766.7
50	20		Pull side	1649	164.9	329.8	494.7	659.6	824.5	989.4	1154.3 1399.2	1484.1	
63	20	Double	Push side	3117	311.7	623.4	935.1	1246.8	1558.5	1870.2	2181.9	2493.6	2805.3
63	20	acting	Pull side	2803	280.3	560.6	840.9	1121.2	1401.5	1681.8	1962.1	2242.4	2.4 2522.7
80	25		Push side	5026	502.6	1005.2	1507.8	2010.4	2513.0	3015.6	3518.2	4020.8	4523.4
80	25		Pull side	4536	453.6	907.2	1360.8	1814.4	^268.0	2721.6	3175.2	3628.8	4082.4
100	25	1	Push side	7853	785.3	1570.6	2355.9	3141.2	3926.5	4711.8	4288.2	6282.4	7067.7
100	25		Pull side	7362	736.2	1472.4	2208.6	2948.6	3681.0	4417.2	5153.4	5889.6	6625.8
125	32		Push side	12272	1227.2	2454.4	3681.6	4908.8	6136.0	7363.2	8590.4	9817.6	11044.8
125	32		Pull side	11468	1146.8	2293.6	3440.4	4587.2	5734.0	6880.8	8027.6	9174.4	10321.2

Specification

Bore size mm		32	40			8	0):	
Acting type	е	Double acting								
Fluid		Air(to be filtered by 40um filter element)								
	SE	Ba	sic FA	FB CA	CB	CR LB	FTC	TF	TM	
Mounting type	SED		Bas	ic FA		FTC		TA4		
	SEJ		Bas	ic FA	LB	FIG	I.F	I M		
Operating	pressure	0.1~1.0MPa(14-145Psi)								
Proof pres	sure	1.5MPa(215Psi)								
Temperatu	ure °C	-20~80								
Speed ran	ge mm/s	30~800 30~500								
Stroke Tolerance		0~250*1.0 251~1000*1.4 1001~1500*1.8								
Cushion type		Variable cushion								
Adjustable cushion stroke mm		27		3	0		36			40
Port size	1)	1/8*	1/4"			3/8"			1/	2"

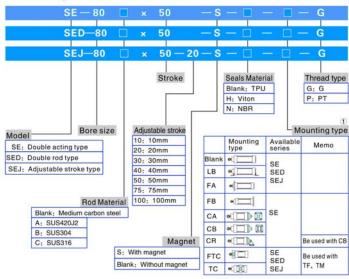
G thread and PT thread are available;
Add: Refer to PVI-35-VI-44 for detail of sensor switch.

Stroke

Bore size (mm)		Max. Stroke	Available stroke
32	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500	1000	1800
40	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800	1200	1800
50		1200	1800
63		1500	1800
80	25 50 75 80 100 125 150 160 175 200 250 300 350 400 450 500 600 700 800 900 1000	1500	1800
100		1500	1800
125		1500	1800

Remark: Consult us for non-standard stroke

Ordering code



Please refer to page III – 04~ III – 06 for accessory parts.

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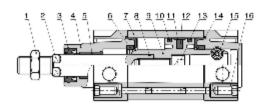
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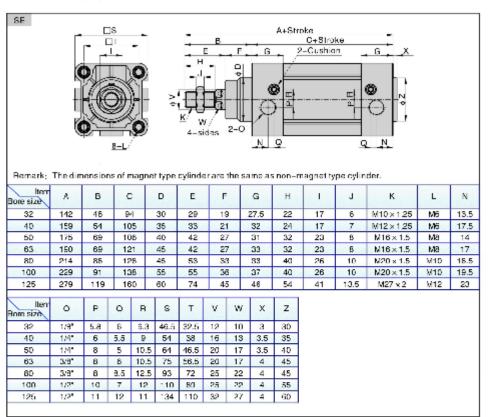


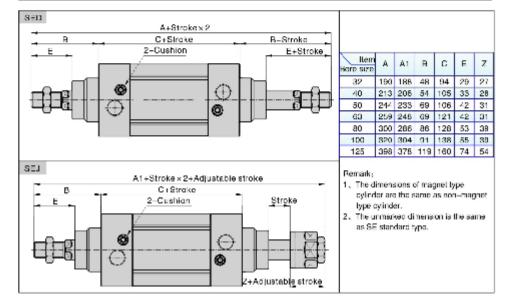
Inner structure and material of major parts SE-S



NO.	tem	Material
1	Red nut	Carbon steel /Stainless steel
2	Piston rod	Carbon steel with 20um chrome plated
2	-istori rod	Stainless steel
3	Front cover packing	TPU
4	Front cover	Aluminum alloy
5	Bushing	Wear resistant material
6,	Gushion O-ring	TPU
7	Barrel	Aluminum alloy
8	O-ring	NBR
9	Platon	Aluminum alloy
10	Piston O-ring	TPU
11	Wearing	Wear resistant material
12	Magnet	Plastic / Rubber (ф 125)
13	Balt	Carbon steel
14	Buffer gasket	TPU
15	Back cover	Aluminum alloy
16	Sarew	Carbon steel /Stainless steel

Dimensions





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MSE Series ISO15552 Cylinders – Accessories

Ordering code



- (i) The listed accessories are for SE cylinder. Accessories that are adaptable to other cylinders are not shown. Please refer to accessory list on PIII-06 for selection and ordering information.
- CB is attached with relevant PIN.

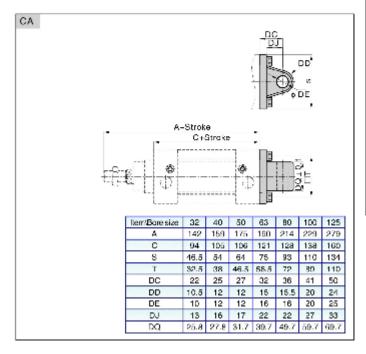
Accessory selection

(C)	linder model		SE		SED	SEJ		
Ar	coessories	Standard	With magnet	Standard	With magnet	Standard	With magnet	
	LB	•	•	•	•	•	•	
	FA	•	•	•	•	•	•	
Mounting accessory	FB	•	•	×	×	×	х	
	CA	•	•	×	×	×	х	
	CB	•	•	×	×	×	×	
	CH		•	×	×	×	×	
	TC	•	•	•	•	•	•	
ş	FTC	•	•	•	•	•	•	
	TF	•	•	•	•	•	•	
	TM	•	•	•	•	•	•	
<u>(i)</u>	I	•	•	•	•	•	•	
9	Y	•	•	•	•	•	•	
Knuckle	ü	•	•	•	•	•	•	
ž	F	•	•	•	•		•	
(2)	CS1-E	×	•	×	•	×	•	
Switch	CS1-EX	×	•	×	•	×	•	
	CS1-EN	×	•	×	•	×	•	
c is	CS1-EP	×	•	×	•	×	•	

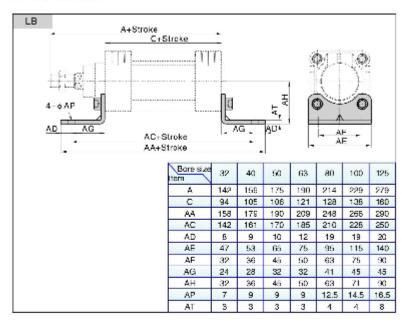
- J: Please refer to PVI-31 VI-34 for knuckle detail;
- 2: Please refer to PVI-35-VI-44 for detail of sensor switch.

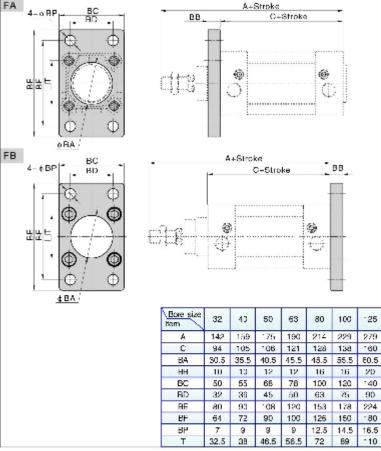
Material of accessories

Accessories	Mounting accessories										Joint accessories	
Bore size	LB	FA	FB	TM	CR	CA	CB	FTC	TF	I. Y	F, U	
32~100	Low carbon steel	ton Aluminum alloy				Nodular cast iron Ca			steel	Garbon steel		
125	Cast steel											



Dimensions





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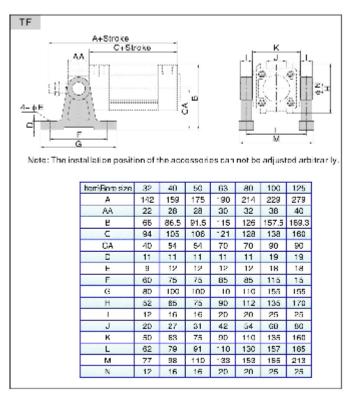
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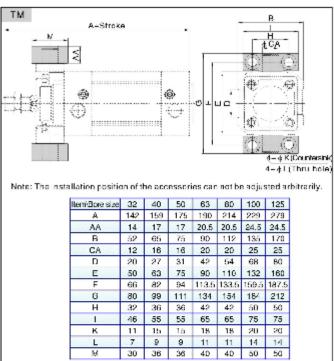
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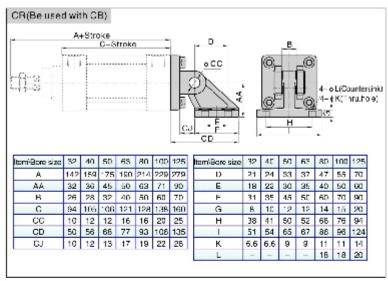
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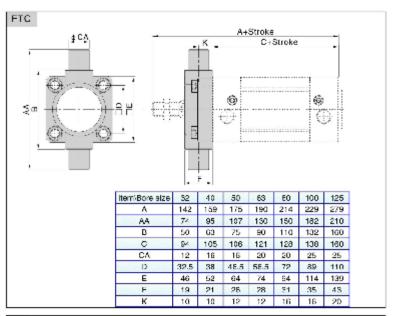


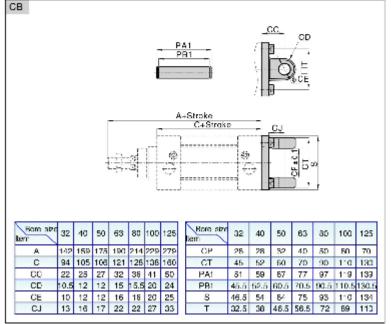
MSE Series ISO15552 Cylinders – Accessories











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List for ordering code of accessories

	Cylinder model essories	32	40	50	63	80	100	125			
	LB	F-SI32LB	F-SI40LB	I40LB F-SI50LB		F-SI63LB F-SI80LB		F-SI125LB			
ž	FA	F-SI32FA	F-SI40FA	F-SI50FA	F-SI63FA	F-SI80FA	F-SI100FA	F-SI125FA			
SSC	FB	F-3132FA	F-3140FA	r-SiSUFA	r-3i03FA	r-Sioura	r-SHOOFA	F-31123FA			
accessory	CA	F-SE32CA	F-SE40CA	F-SE50CA	F-SE63CA	F-SE80CA	F-SE100CA	F-SE125CA			
	СВ	F-SE32CB	F-SE40CB	F-SE50CB	F-SE63CB	F-SE80CB	F-SE100CB	F-SE125CB			
Mounting	CR	F-SI32CR	F-SI40CR	F-SI50CR	F-SI63CR	F-SI80CR	F-SI100CR	F-SI125CR			
no o	TC ①	F-SE32TC	F-SE40TC	F-SE50TC	F-SE63TC	F-SE80TC	F-SE100TC	F-SE125TC			
2	FTC	F-SI32FTC	F-SI40FTC	F-SI50FTC	F-SI63FTC	F-SI80FTC	F-SI100FTC	F-SI125FTC			
	TF	F-SI32TF	F-SI40TF		F-SI63TF						
	TM	F-SI32TM	F-SI40TM		F-SI63TM		F-SI125TM				
<u>e</u>	I: I Knuckle	F-M10125II	F-M12125II	F-M16150II		F-M20150II		F-M27200II			
Knuckle	Y:Y Knuckle	F-M10125YI	F-M12125YI	F-M16150Y	T F-M2015		Ţ	F-M27200YI			
호	U:U Knuckle	F-M10125U	F-M12125U F-M16150U			F-M20150U		F-M27200U			
	F:F Knuckle	F-M10125F	F-M12125F F-M16150F			F-M20150F	F-M20150F				
	CS1-E	CS1-E									
85	CS1-EX	CS1-EX									
Sensor switch	CS1-EN	CS1-EN									
0,00	CS1-EP				CS1-EP						

①: TC accessories are under development.

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