

Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC / SU
SCT
SC A.
SL
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MAC L A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
MHL2
Pneumatic
Fingers
MXH/MXQ
CJP
CJ2
CDU
TN
CXS
MGP
MSQ

Patent Product

Infringement must be prohibited

Patent No. : ZL 200930344937.0
ZL 200920124808.5



Feature

SQ Series cylinder is a new super economical cylinder patent product. Body and covers are latest innovated, with new structure, smart, cost reduced, material saved. The installation dimension is the same as SI, conforms to ISO 15552 standard.

Ordering Code

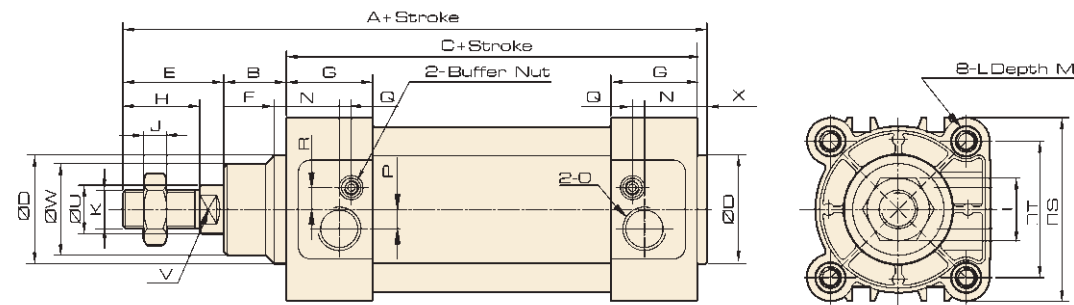
SQ	D	50	50	10	S	LB	MT
Series	Series Code	Bore	Stroke	Adjustable Stroke	Magnet	Mountings	Sensor
SQ: ISO 15552 Standard cylinder	Blank: Standard double acting	32	25-1000mm	10: 10mm	S: With magnet	Blank: Basic mountings	Blank: Without Sensor
	D: Double-shaft double acting	40		20: 20mm	Blank: Without magnet	LB: Front and back mounting	JEL-30R type
		50		30: 30mm			
	J: Double-shaft with adjustable stroke	63		50: 50mm		FA: Front mounting flange	* Standard wire length is 1 meter, please specify for other length
		80		75: 75mm		FB: Back mounting flange	
		100		100: 100mm			
						CA: Back clevis (Single earring)	
							
						CB: Back hinge (Double earring)	
							
						YB: Back hinge	
							

Specification

Bore (mm)	32	40	50	63	80	100
Operation	Double Acting					
Working Medium	Air					
Mounting	Basic FA FB CA CB LB YB					
Operating Pressure Range	0.1 ~ 1MPa					
Proof Pressure	1.5MPa					
Operating Temperature Range	-20 ~ 70℃					
Operating Speed Range	50 ~ 800mm/s					
Cushion	Adjustable Cushion					
Adjustable Cushion Stroke	20mm			26mm		
Port Size	G1/8"	G1/4"	G3/8"		G1/2"	

Overall Dimension

SQ32-100



Dimension

Bore /Symbol	A	B	C	D	E	F	G	H	I	J	K	L
32	142	16	94	30	33	4	25	22	17	6	M10x1.25	M6
40	159	20	105	35	34	4	29.5	24	17	7	M12x1.25	M6
50	175	27	106	40	42.5	5	32	32	23	8	M16x1.5	M8
63	190	26	122	45	42	5	36	32	23	8	M16x1.5	M8
80	214	35	127	45	53	6	37	40	26	10	M20x1.5	M10
100	229	40	137	55	52	6	39	40	26	10	M20x1.5	M10

Bore /Symbol	M	N	O	P	Q	R	S	T	U	V	W	X
32	12	15	G1/8	5	3	6.5	45	32.5	12	10	25	4
40	12	17.5	G1/4	7	3	7	52	38	16	13	33	4
50	12	20	G1/4	7	3	9	65	46.5	20	17	36	4
63	12	22	G3/8	8	5	9	76	56.5	20	17	38	4
80	15	23	G3/8	10	5	12	94	72	25	22	43	5
100	15	26	G1/2	10	5	14	112	89	25	22	43.5	6

*The installation dimension of super economy SQ series cylinder is the same as SI series cylinder and all the cylinder accessories and sensor switch can share with SI cylinder.

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Large Size SQ Series
Standard Cylinder
(Conforms to ISO15552 Standard)

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Features

- 1. The cylinder is in accordance with the ISO15552.
- 2. The piston seal adopts two Y type one-way seals with compensation function, long service life and low starting pressure.
- 3. The cylinder cushion adjustment is smooth and the cushioning distance is long.
- 4. The cylinder bearings and wear rings have long distances and better lateral load performance.
- 5. The front and rear cover and piston adopt high pressure casting technology, with beautiful appearance and stronger strength.



Ordering Code

SQ	D	160	50	10	S	LB	MT
Series	Series Code	Bore	Stroke	Adjustable Stroke	Magnet	Mountings	Sensor
SQ : Large Size Series	Blank: Standard double acting	125	25-1000mm	10: 10mm	S: With magnet	Blank: Basic mountings	JEL-21R type
	D: Double-shaft double acting	160		20: 20mm	Blank: Without magnet	LB: Front and back mounting	
	J: Double-shaft with adjustable stroke	200		30: 30mm		FA: Front mounting flange	
		250		50: 50mm		FB: Back mounting flange	
		320		75: 75mm		CA: Back clevis (Single earring)	* Standard wire length is 1 meter, please specify for other length
				100: 100mm		CB: Back hinge (Double earring)	

Specification

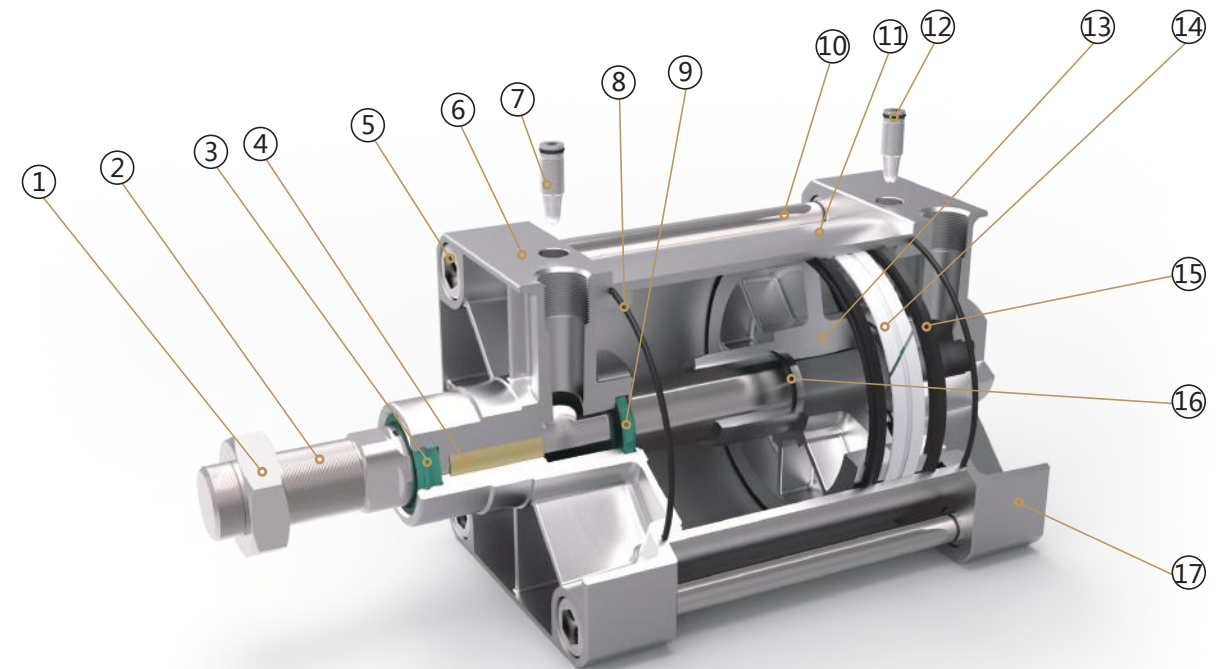
Bore (mm)	125	160	200	250	320
Operation	Double Acting				
Working Medium	Air				
Mounting	Basic FA FB CA CB LB				
Operating Pressure Range	0.1 ~ 1MPa				
Proof Pressure	1.5MPa				
Operating Temperature Range	-20 ~ 70°C				
Operating Speed Range	30-500mm/s				
Cushion	Adjustable Cushion				
Adjustable Cushion Stroke	40mm	50mm			
Port Size	G1/2"	G3/4"		G1"	

ISO9001:2015 CE

Large Size SQ Series
Standard Cylinder
(Conforms to ISO15552 Standard)

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Internal Structure



Parts

Number	Name	Number	Name
1	Hexagon nut	10	Tie Rod
2	Piston rod	11	Barrel
3	Shaft seal	12	O ring
4	DU Bearing	13	Piston
5	Cover screw	14	Anti-friction ring
6	Front cover	15	Piston seal
7	Cushion adjust screw	16	O ring
8	O ring	17	Back cover
9	Cushion seal		

Large Size SQ Series Standard Cylinder (Conforms to ISO15552 Standard)



Cylinder

Calculation

SI

SI A

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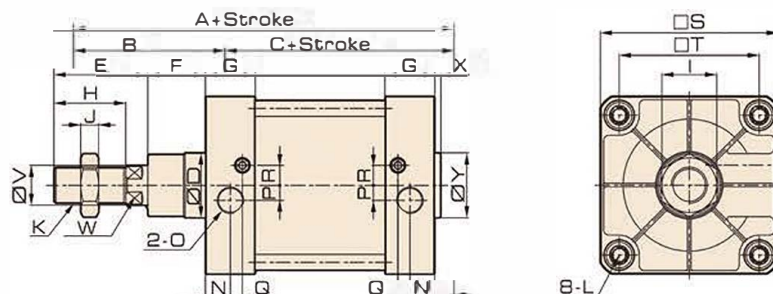
CXS

MGP

MSQ

Overall Dimension

SQ125-200 Standard Type



Dimension

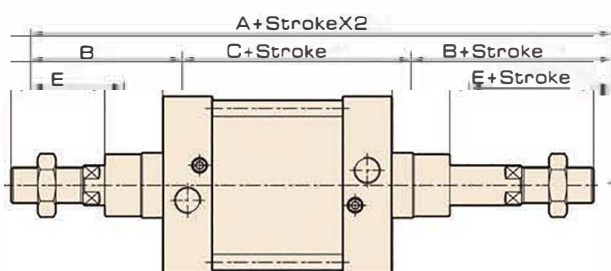
Bore / Symbol	A	B	C	D	E	F	G	H	I	J	K
125	279	119	160	60	74	45	46	54	41	13.5	M27×2
160	332	152	180	65	94	58	50	72	55	18	M36×2
200	347	167	180	75	100	67	50	72	55	18	M36×2
250	389	189	200	90	114	75	60	84	65	21	M42×2
320	436	216	220	110	126	90	65	96	75	24	M48×2

Bore / Symbol	L	N	O	P	Q	R	S	T	V	W	X	Y
125	M12	23	G1/2	14	12	14	140	110	32	27	4	60
160	M16	25	G3/4	15	12	20	178	140	40	36	6	65
200	M16	25	G3/4	15	12	20	220	175	40	36	5	75
250	M20	30	G1	20	10	25	270	220	50	45	8	90
320	M24	31	G1	35	15	35	350	270	63	55	10	110

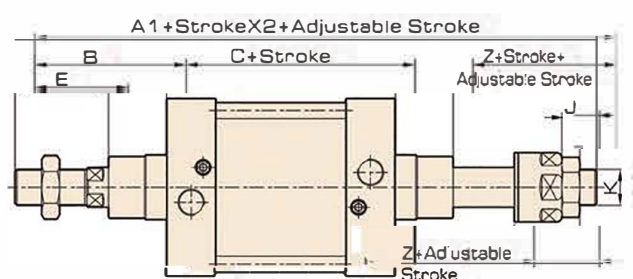
* Cylinder with or without magnet is the same size.

Overall Dimension

SQD125-200 Double Rods Type



SQJ125-200 Double Rods with Adjustable Type



Dimension

Bore / Symbol	A	A1	B	C	E	Z	J	K
125	398	366.5	119	160	74	42.5	13.5	M27×2
160	484	449	152	180	94	55	18	M36×2
200	514	473	167	180	100	55	18	M36×2

* 1. Cylinder with or without magnet is the same size. 2. The no marked size is same with SQ standard.