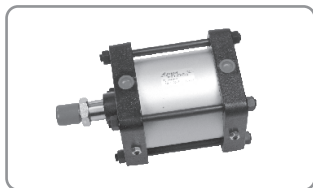
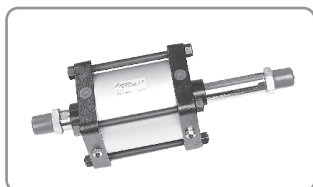


FC Large Bore Size Cylinders

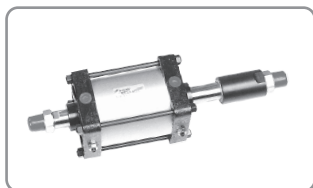
SERIES Products Content



FCA Double acting cylinders Ø 125~ Ø 300 *P.127*



FCC Double rods cylinders Ø 125~ Ø 300 *P.136*



FCD Double rods with forward alignment cylinders Ø 125~ Ø 300 *P.138*

Feature

bore (mm)	125、150、160、180、200、250、300	
fluid	filter compressed air (need lubricating oil/ ISO-VG32)	
working pressure (Kgf/cm ²)	0.5~9.9	
temperature (°C)	0 ~ +60	
piston speed (m/s)	50~700	
stroke	(1) S ≤ 500 : 0~+4.0 (2) 501 ≤ S ≤ 1250 : 0~+5.0	
cushion length (mm)	Ø 125 ~ Ø 200	25
	Ø 250 ~ Ø 300	30

- note: 1. actual output= theoretical output - cylinder friction - external acting friction
2. actual output= theoretical output x (50~60)%

Type

Type	Mark	Graphics	Sensor	Dust cover	Heat resistance	Bore (mm)							
						125	150	160	180	200	250	300	
Double acting cylinders	FC-A		FCA-G (bore 125~200)	FCA-H	FCA-J	●	●	●	●	●	●	●	
Double rods cylinders	FC-C		FCC-G (bore 125~200)	FCC-H	FCC-J	●	●	●	●	●	●	●	
Double rods with forward alignment cylinders	FC-D		FCD-G (bore 125~200)	FCD-H	FCD-J	●	●	●	●	●	●	●	

Air Preparation (FRL)

Pneumatic Valves

Pneumatic Cylinders

Pneumatic Connectors

Sensors

Pneumatic Accessories

Theoretical output table

units:kg

bore (mm)	rod (mm)	action	pressure area (cm ²)	working pressure(kgf/cm ²)					
				3	4	5	6	7	8
125	35	push	123	369	492	615	738	861	984
		pull	113	339	452	565	678	791	904
150	40	push	177	531	708	885	1062	1239	1416
		pull	164	492	656	820	984	1148	1312
160	40	push	201	603	804	1005	1206	1407	1608
		pull	187	561	748	935	1122	1309	1496
180	45	push	254	762	1016	1270	1524	1778	2032
		pull	238	714	952	1190	1428	1666	1904
200	50	push	314	942	1256	1570	1884	2198	2512
		pull	294	892	1176	1470	1764	2058	2352
250	60	push	491	1473	1964	2455	2946	3437	3928
		pull	463	1389	1852	2315	2778	3241	3704
300	60	push	707	2121	2828	3535	4242	4949	5656
		pull	679	2037	2716	3395	4074	4753	5432

Selection Instructions

- Push(air intake back)/ pull(air intake front)
- Working pressure(Kgf/cm²)
- Actual force(Kg)
- Check the table to select the appropriate bore

Parts Weight

units:g

symbol bore	FA/FB	LB	CA	CB	TC	CA+CB	Y	I	PIN
125	2.62	0.66	3.14	3.04	3.7	6.54	1.80	2.06	0.36
150	5.32	0.83	5.00	4.98	4.58	10.34	1.98	1.99	0.36
160	6.26	0.97	6.42	6.42	4.98	13.20	3.54	1.99	0.36
180	9.64	2.27	9.78	9.44	10.50	19.86	3.54	3.30	0.64
200	11.74	2.51	11.12	11.04	10.66	22.80	3.54	3.07	0.64
250	22.76	3.56	22.71	22.25	21.94	46.11	6.14	3.94	1.15
300	33.46	4.64	28.61	28.39	22.57	58.15	6.14	3.94	1.15



Y connector included pins and bolt

example: FCA-SD-125-100ST-Y

weight(ST=0)-----12kg

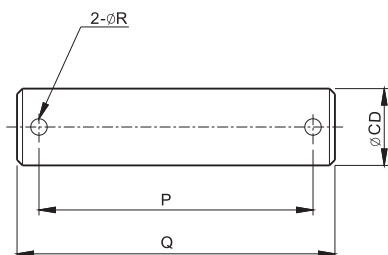
increase stroke weight -----(100 ÷ 50)x0.92=1.84kg

(Y)-----1.8kg

■ total weight= 12+1.84+1.8=15.64kg

Connector dimensions

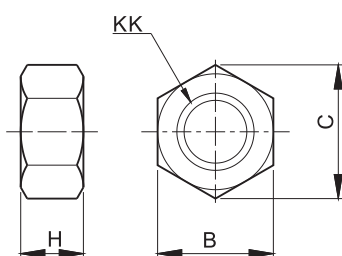
● PIN



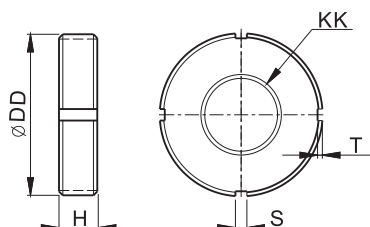
symbol		CD	P	Q	R
bore					
125	Y, CB	25	86	96	3
150					
160					
180	Y, CB	31.5	96	106	3
200					
250	Y	40	106	117	3
	CB	40	119	130	3
300	Y	40	106	117	3
	CB	40	123	134	3

● rod nut

bore: 125~180

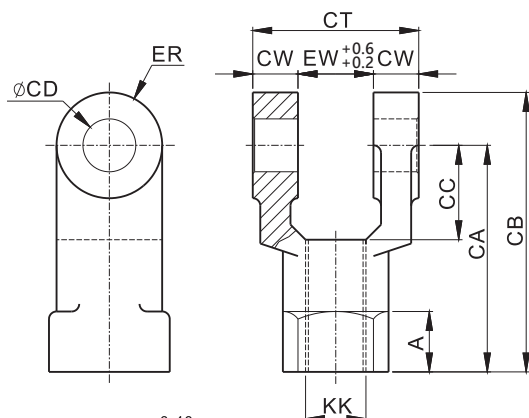


bore: 200~300



symbol		KK	B	C	DD	H	S	T
bore								
125	M30x1.5	41	47	—	17	—	—	—
150	M36x1.5	50	57	—	18	—	—	—
160	M36x1.5	50	57	—	17	—	—	—
180	M39x1.5	50	57	—	18	—	—	—
200	M45x1.5	—	—	70	18	6	2.5	—
250	M56x2.0	—	—	85	20	6	2.5	—
300	M56x2.0	—	—	85	20	6	2.5	—

● Y connector



note: 1. EW $^{+0.40}_0$
2. CD $^{+0.10}_0$

symbol		KK	A	CA	CB	CC	CD	CT	CW	EW	ER
bore											
125	M30x1.5	25	105	133	45	25	80	20	40	28	—
150	M36x1.5	25	105	133	45	25	80	20	40	28	—
160	M36x1.5	25	105	133	45	25	80	20	40	28	—
180	M39x1.5	40	135	170	55	31.5	90	22.5	45	35	—
200	M45x1.5	40	135	170	55	31.5	90	22.5	45	35	—
250	M56x2.0	50	160	200	60	40	100	25	50	40	—
300	M56x2.0	50	160	200	60	40	100	25	50	40	—

Air
Preparation
(FRL)

Pneumatic
Valves

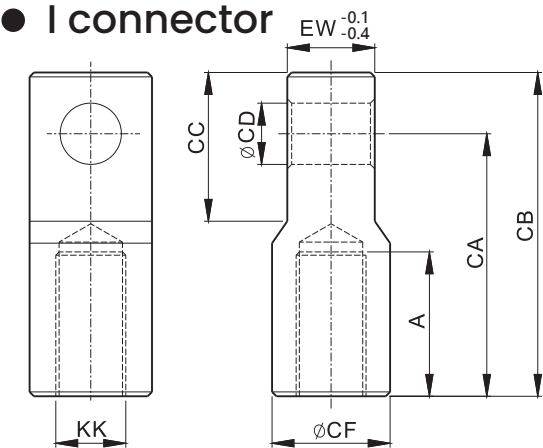
Pneumatic
Cylinders

Pneumatic
Connectors

Sensors

Pneumatic
Accessories

● I connector

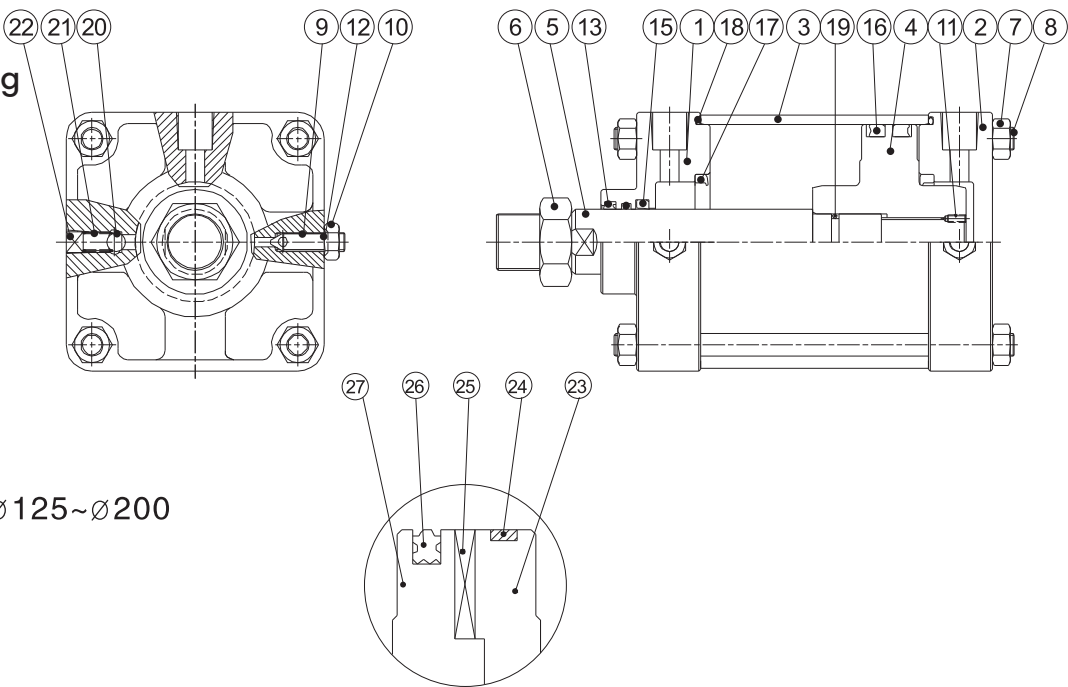


note: 1.EW $^{-0.10}_{-0.40}$
2.CD $^{+0.10}_0$

symbol bore	KK	A	CA	CB	CC	CD	CF	EW
125	M30x1.5	32	100	125	60	25	60	40
150	M36x1.5	35	100	125	60	25	60	40
160	M36x1.5	35	100	125	60	25	60	40
180	M39x1.5	45	125	155	75	31.5	70	45
200	M45x1.5	50	125	155	75	31.5	70	45
250	M56x2.0	50	144	184	90	40	75	50
300	M56x2.0	50	144	184	90	40	75	50

Internal structure and parts name

● double acting



with sensor: $\varnothing 125 \sim \varnothing 200$

item	part name	qty	item	part name	qty
①	rod cover	1	⑮	rod cover seal	1
②	head cover	1	⑯	piston seal	2
③	tube(125~200 aluminium alloy)	1	⑰	cushion seal	2
④	piston	1	⑱	cover O-ring	2
⑤	rod	1	⑲	piston O-ring	1
⑥	rod cap	1	⑳	steel ball	2
⑦	screw nut	8	㉑	spring	2
⑧	tie-rod	4	㉒	throat plug	2
⑨	cushion screw	2	㉓	sensor rod piston	1
⑩	cushion screw nut	2	㉔	sensor piston wear ring	1
⑪	screw	1	㉕	inductive magnet	1
⑫	teflon seal	2	㉖	sensor piston seal	1
⑬	rod cover dust seal	1	㉗	sensor back piston	1

Weight

units:g

bore	125	150	160	180	200	250	300
SD type, stroke ST = 0	12	17.9	21.9	28.9	38	59.8	91.8
add weight for every 50mm increase in stroke	0.92	1.12	1.16	2.62	3.31	4.41	5.36

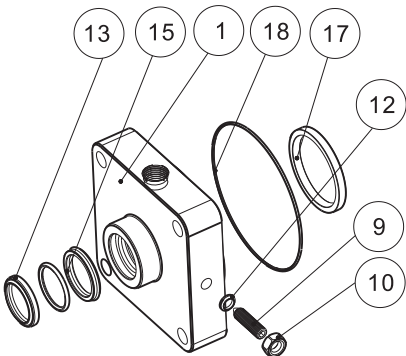
Parts' Group Weight

units:g

bore		125	150	160	180	200	250	300
part's group name	★ with seal							
rod cover grp		3300	5300	6600	8500	10700	16300	27100
head cover grp		3300	5300	6600	8500	10700	16300	27100
piston grp		2700	3300	4100	6300	7300	13700	19700

Rod Cover Grp

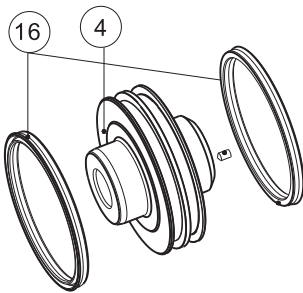
item	part name	qty
①	rod cover	1
⑨	cushion screw	1
⑩	cushion screw nut	1
⑫	teflon seal	1
⑬	rod cover dust seal	1
⑮	rod cover seal	1
⑰	cushion seal	1
⑱	cover O-ring	1



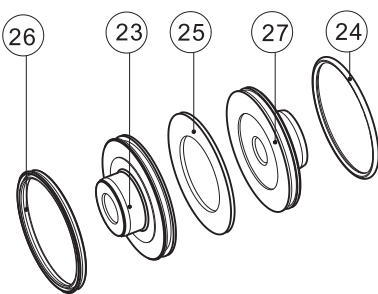
Piston Grp

item	part name	qty
④	piston	1
⑮	piston seal	2
⑳	sensor rod piston	1
㉔	sensor piston wear ring	1
㉕	inductive magnet	1
㉖	sensor piston seal	1
㉗	sensor back piston	1

no sensor piston group

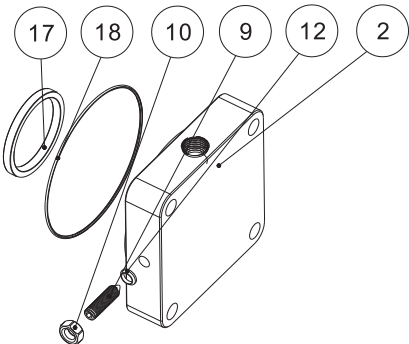


sensor piston group



Head Cover Grp

item	part name	qty
②	head cover	1
⑨	cushion screw	1
⑩	cushion screw nut	1
⑫	teflon seal	1
⑰	cushion seal	1
⑱	cover O-ring	1



Air
Preparation
(FRL)

Pneumatic
Valves

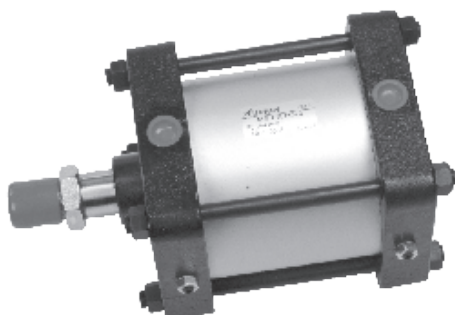
Pneumatic
Cylinders

Pneumatic
Connectors

Sensors

Pneumatic
Accessories

FCA Double Acting Cylinders



1.The front and rear end covers are basically equipped with cushions.

2.Magnets can be attached and magnetic sensors can be installed (Ø125~Ø200).

Order Indication

FCA		SD	125	100ST		T × n
series	performance	installation type	bore	stroke	end connectors	magnetic sensor
double acting cylinders	blank: indicates standard G: sensor (bore 125, 150, 160, 200 only) H: shaft with dust cover J: heat/acid & alkali resistance	SD: basic FA: front flange FB: rear flange LB: end flange CA: clevis CB: double clevis TC: mid trunnion	125:125mm 150:150mm 160:160mm 180:180mm 200:200mm 250:250mm 300:300mm		Y: Y connector I: I connector PIN: pin	JFS01 T: 2 outgoing lines, standard line is 2 m P:PNP 3 outgoing lines, standard line is 2 m N:NPN 3 outgoing lines, standard line is 2 m n: qty *The order with G mark but no T × n mark indicates that only induction magnet is attached without magnetic sensor

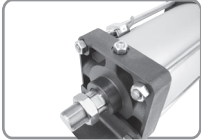
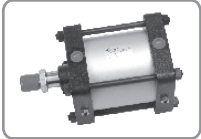
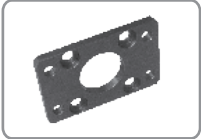
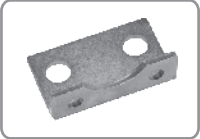
! blank = indicates standard, no need to specify when order

Note:If you want to order sensor double rods cylinders,please change the series code to "ALA".

Part Order Indication

FCA		125	100ST	rod cover
series	performance	bore	stroke	part name
large bore size cylinders	blank: indicates standard G: sensor H: shaft with dust cover J: heat/acid & alkali resistance			please refer to internal structure and parts name

Order Indication

performance	G: sensor  H: shaft with dust cover 				
end connectors	Y : Y connector  I : I connector 				
installation type	SD: basic 	FA/FB: front/rear flange 	LB: end flange 	CA: clevis 	CB: double clevis 
	TC: mid trunnion 				
magnetic sensor	JFS-01 				

Air Preparation (FRL)

Pneumatic Valves

Pneumatic Cylinders

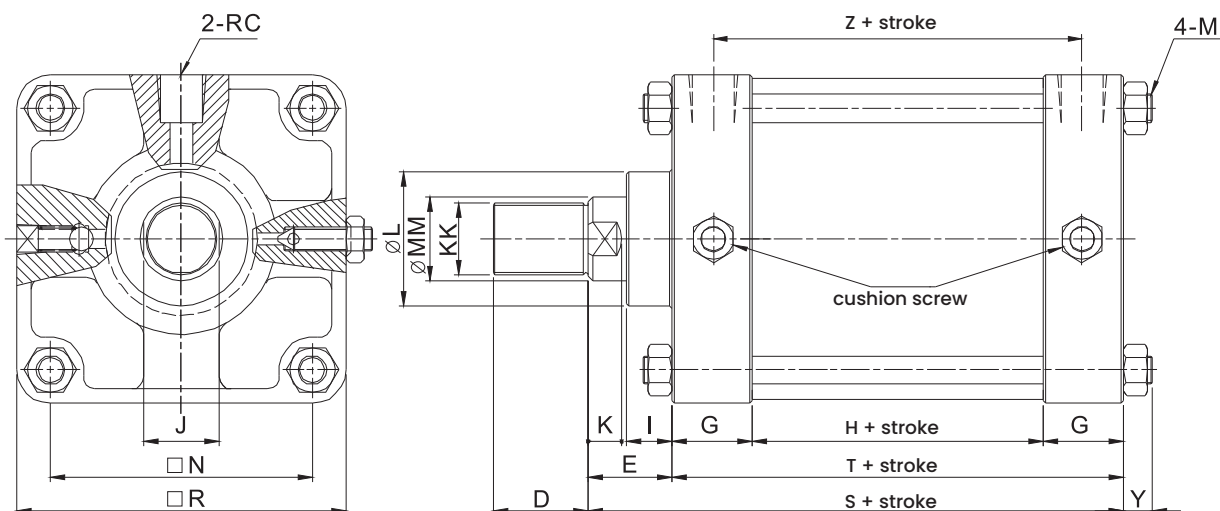
Pneumatic Connectors

Sensors

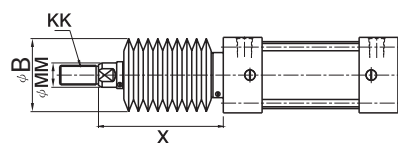
Pneumatic Accessories

External Dimensions

● FCA-SD basic



shaft with dust cover (FCL-H)



*X= piston rod retracted length

● specify material when ordering:

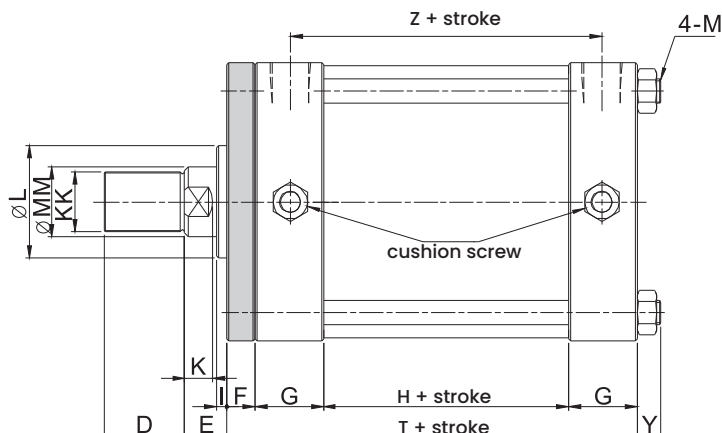
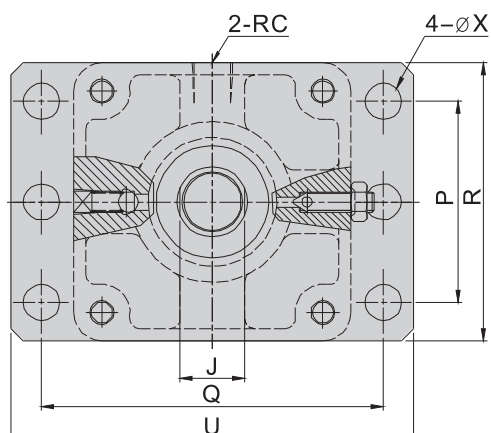
- (1) N: rubber
- (2) V: heat resist. ≤200°C

symbol bore	MM	KK	D	E	G	H	I	J	K	L	M	N	R
125	35	M30x1.5	40	35	34	42	19	32	14	56	M12x1.5	110	138
150	40	M36x1.5	45	45	34	52	25	37	17	60	M16x1.5	128	164
160	40	M36x1.5	56	54	42	44	25	37	17	60	M16x1.5	144	180
180	45	M39x1.5	55	50	42	48	30	42	17	65	M18x1.5	160	202
200	50	M45x1.5	60	57	42	56	30	47	20	70	M20x1.5	172	224
250	60	M56x2.0	70	57	42	64	35	56	20	84	M22x1.5	220	278
300	60	M56x2.0	70	70	50	76	35	56	22	84	M26x1.5	250	325

symbol bore	S	T	Y	Z	RC	φB	X
125	145	110	12	75	Rc1/2	71	1/4ST+71
150	165	120	17	82	Rc1/2	80	1/4ST+75
160	182	128	17	82	Rc3/4	80	1/4ST+75
180	182	132	17	90	Rc3/4	80	1/4ST+75
200	197	140	20	98	Rc3/4	80	1/4ST+75
250	205	148	22	106	Rc3/4	80	1/4ST+80
300	246	176	24	126	Rc1		

External Dimensions

● FCA-FA front flange



⚠ note: ØX: Ø125~Ø250 (4 holes)
Ø300 (6 holes)

symbol bore	MM	KK	D	E	F	G	H	I	J	K	L	M	P
125	35	M30x1.5	40	21	14	34	42	5	32	14	56	M12x1.5	100
150	40	M36x1.5	45	25	20	34	52	5	37	17	60	M16x1.5	128
160	40	M36x1.5	56	34	20	42	44	5	37	17	60	M16x1.5	134
180	45	M39x1.5	55	26	24	42	48	6	42	17	65	M18x1.5	162
200	50	M45x1.5	60	33	24	42	56	6	47	20	70	M20x1.5	180
250	60	M56x2.0	70	27	30	42	64	5	56	20	84	M22x1.5	226
300	60	M56x2.0	70	40	30	50	76	5	56	22	84	M26x1.5	270

symbol bore	Q	U	T	X	Y	Z	RC	R
125	170	200	124	18	12	75	Rc1/2	138
150	200	236	140	18	17	82	Rc1/2	164
160	212	248	148	18	17	82	Rc3/4	180
180	242	282	156	20	17	90	Rc3/4	202
200	268	312	164	22	20	98	Rc3/4	224
250	330	382	178	26	22	106	Rc3/4	278
300	400	460	206	22	24	126	Rc1	325

Air
Preparation
(FRL)

Pneumatic
Valves

Pneumatic
Cylinders

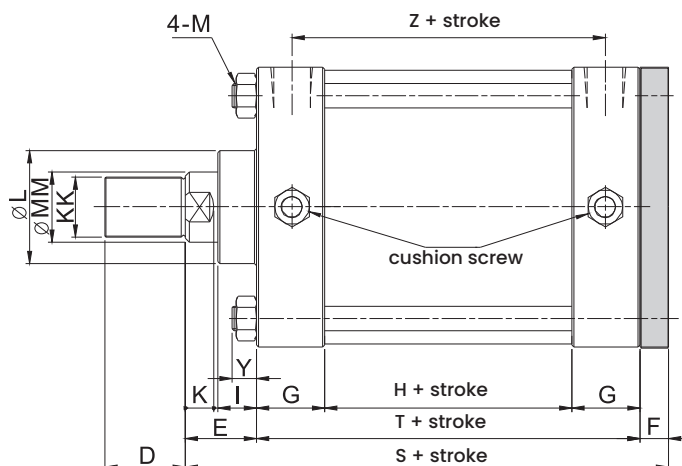
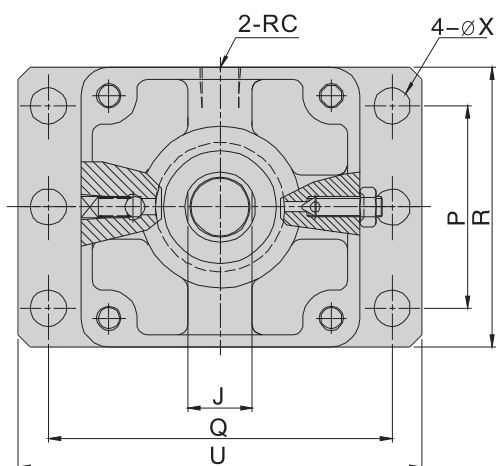
Pneumatic
Connectors

Sensors

Pneumatic
Accessories

External Dimensions

● FCA-FB rear flange



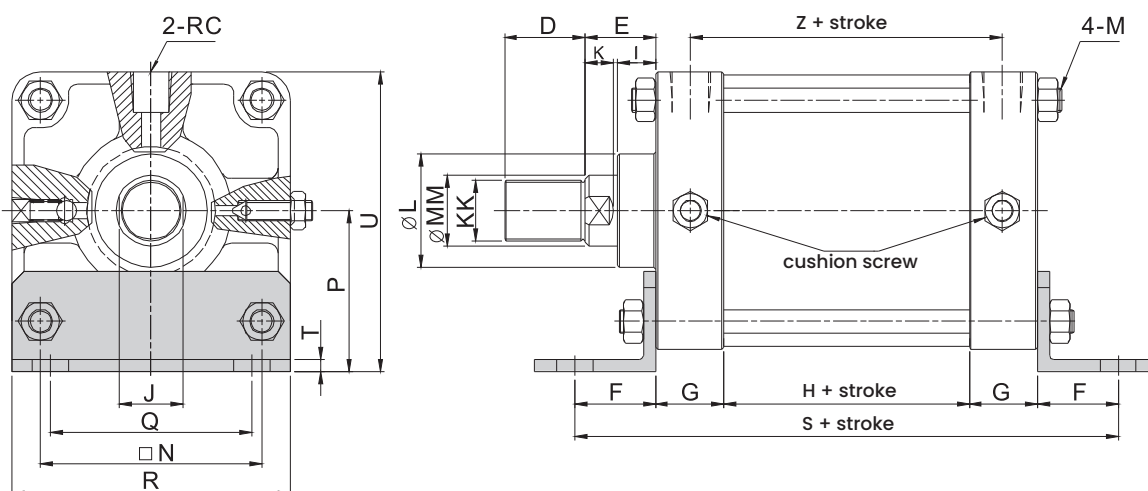
⚠ note: ØX: Ø125~Ø250 (4 holes)
Ø300 (6 holes)

bore	symbol	MM	KK	D	E	F	G	H	I	J	K	L	M	P
125		35	M30x1.5	40	35	14	34	42	19	32	14	56	M12x1.5	100
150		40	M36x1.5	45	45	20	34	52	25	37	17	60	M16x1.5	128
160		40	M36x1.5	56	54	20	42	44	25	37	17	60	M16x1.5	134
180		45	M39x1.5	55	50	24	42	48	30	42	17	65	M18x1.5	162
200		50	M45x1.5	60	57	24	42	56	30	47	20	70	M20x1.5	180
250		60	M56x2.0	70	57	30	42	64	35	56	20	84	M22x1.5	226
300		60	M56x2.0	70	70	30	50	76	35	56	22	84	M26x1.5	270

bore	symbol	Q	S	T	U	X	Y	Z	RC	R
125		170	159	110	200	18	12	75	Rc1/2	138
150		200	185	120	236	18	17	82	Rc1/2	164
160		212	202	128	248	18	17	82	Rc3/4	180
180		242	206	132	282	20	17	90	Rc3/4	202
200		268	221	140	312	22	20	98	Rc3/4	224
250		330	235	148	382	26	22	106	Rc3/4	278
300		400	276	176	460	22	24	126	Rc1	325

External Dimensions

● FCA-LB end flange



Air
Preparation
(FRL)

Pneumatic
Valves

Pneumatic
Cylinders

Pneumatic
Connectors

Sensors

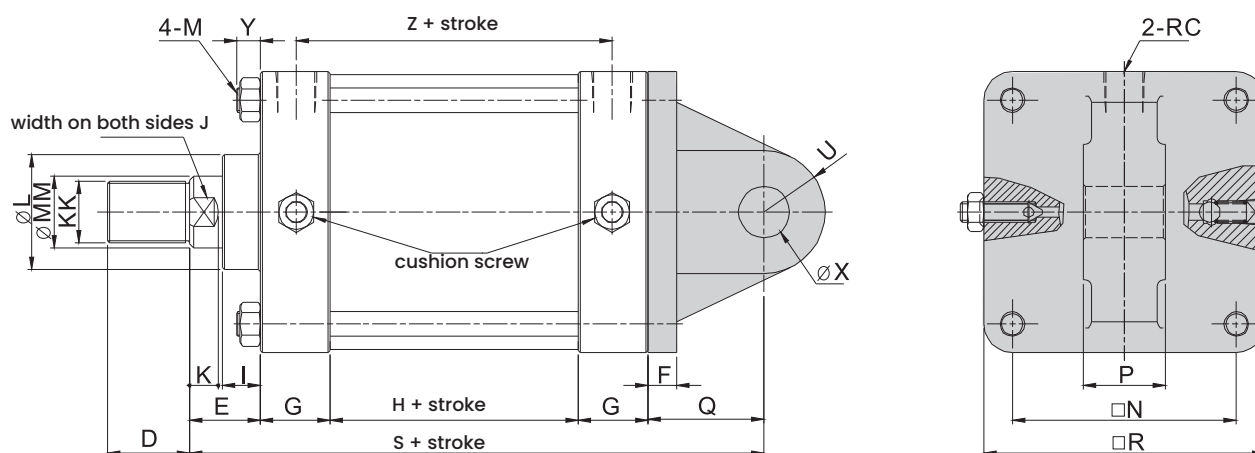
Pneumatic
Accessories

symbol bore	MM	KK	D	E	F	G	H	I	J	K	L	M	N	P
125	35	M30x1.5	40	35	40	34	42	19	32	14	56	M12x1.5	110	80
150	40	M36x1.5	45	45	45	34	52	25	37	17	60	M16x1.5	128	98
160	40	M36x1.5	56	54	50	42	44	25	37	17	60	M16x1.5	140	96
180	45	M39x1.5	55	50	58	42	48	30	42	17	65	M18x1.5	160	116
200	50	M45x1.5	60	57	58	42	56	30	47	20	70	M20x1.5	172	126
250	60	M56x2.0	70	57	64	42	64	35	56	20	84	M22x1.5	220	150
300	60	M56x2.0	70	70	70	50	76	35	56	22	84	M26x1.5	250	185

symbol bore	Q	R	S	T	U	X	Z	RC
125	100	138	190	6	149	18	75	Rc1/2
150	116	164	210	6	180	18	82	Rc1/2
160	134	182	228	6	186	18	82	Rc3/4
180	156	202	248	10	217	20	90	Rc3/4
200	170	224	256	10	238	22	98	Rc3/4
250	212	278	276	10	289	24	106	Rc3/4
300	272	325	316	12	347.5	28	126	Rc1

External Dimensions

● FCA-CA clevis

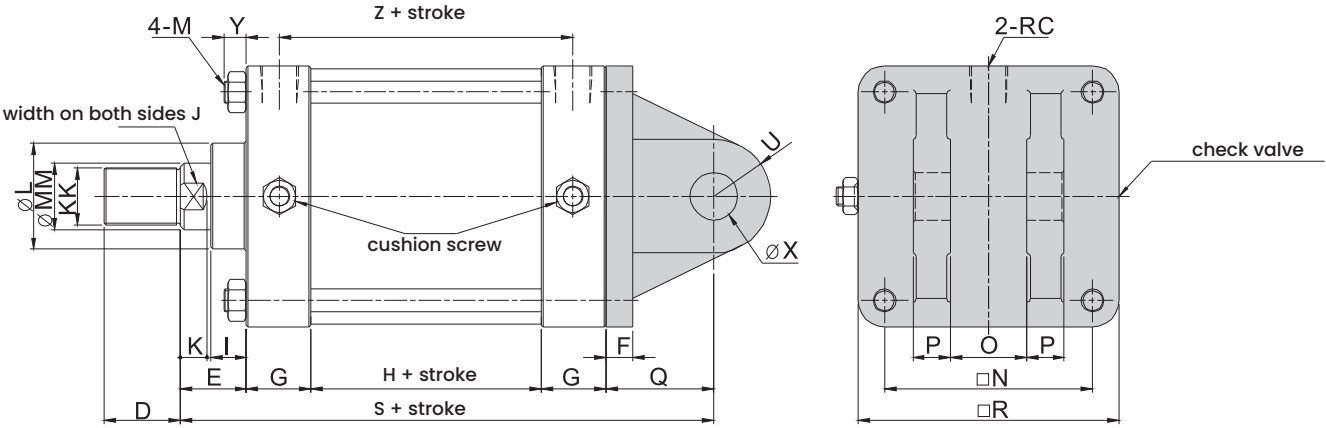


bore \ symbol	MM	KK	D	E	F	G	H	I	J	K	L	M	N	P	Q
125	35	M30x1.5	40	35	14	34	42	19	32	14	56	M12x1.5	110	40	57
150	40	M36x1.5	45	45	20	34	52	25	37	17	60	M16x1.5	128	40	63
160	40	M36x1.5	56	54	20	42	44	25	37	17	60	M16x1.5	140	40	63
180	45	M39x1.5	55	50	25	42	48	30	42	17	65	M18x1.5	160	45	80
200	50	M45x1.5	60	57	25	42	56	30	47	20	70	M20x1.5	172	45	80
250	60	M56x2.0	70	57	30	42	64	35	56	20	84	M22x1.5	220	56	95
300	60	M56x2.0	70	70	30	50	76	35	56	22	84	M26x1.5	250	60	100

bore \ symbol	R	S	U	X	Y	Z	RC
125	138	202	R30	25	12	75	Rc1/2
150	164	228	R30	25	17	82	Rc1/2
160	180	245	R30	25	17	82	Rc3/4
180	202	262	R38	31.5	17	90	Rc3/4
200	224	277	R38	31.5	20	98	Rc3/4
250	278	300	R48	40	22	106	Rc3/4
300	325	346	R40	40	24	126	Rc1

External Dimensions

FCA-CB double clevis



symbol bore	MM	KK	D	E	F	G	H	I	J	K	L	M	N	O	P
125	35	M30x1.5	40	35	14	34	42	19	32	14	56	M12x1.5	110	40	20
150	40	M36x1.5	45	45	20	34	52	25	37	17	60	M16x1.5	128	40	20
160	40	M36x1.5	56	54	20	42	44	25	37	17	60	M16x1.5	140	40	20
180	45	M39x1.5	55	50	25	42	48	30	42	17	65	M18x1.5	160	45	22
200	50	M45x1.5	60	57	25	42	56	30	47	20	70	M20x1.5	172	45	22
250	60	M56x2.0	70	57	30	42	64	35	56	20	84	M22x1.5	220	56	28
300	60	M56x2.0	70	70	30	50	76	35	56	22	84	M26x1.5	250	60	28

symbol bore	Q	R	S	U	X	Y	Z	RC
125	57	138	202	R30	25	12	75	Rc1/2
150	63	164	228	R30	25	17	82	Rc1/2
160	63	180	245	R30	25	17	82	Rc3/4
180	80	202	262	R38	31.5	17	90	Rc3/4
200	80	224	277	R38	31.5	20	98	Rc3/4
250	95	278	300	R48	40	22	106	Rc3/4
300	100	325	346	R40	40	24	126	Rc1

Air
Preparation
(FRL)

Pneumatic
Valves

Pneumatic
Cylinders

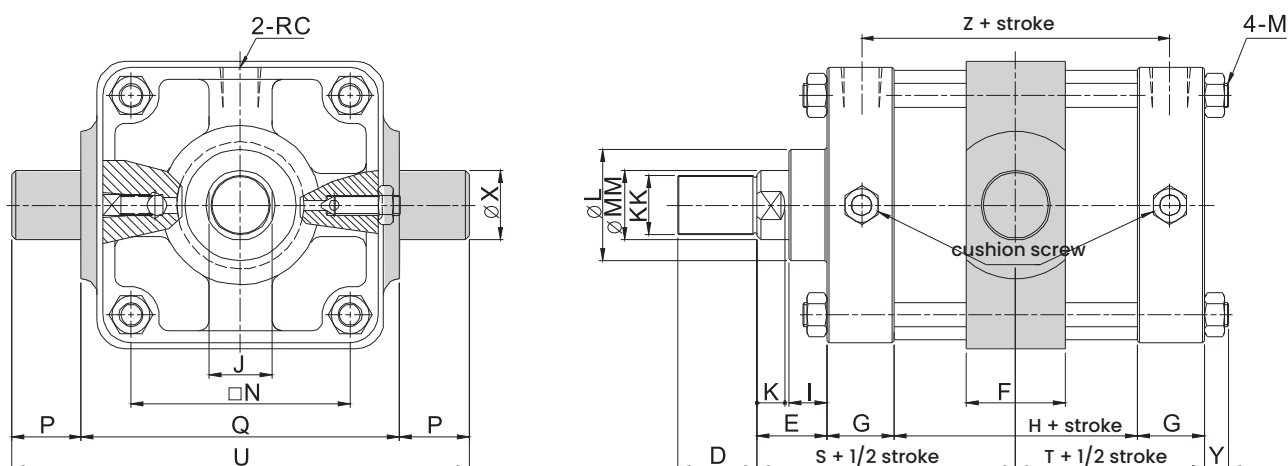
Pneumatic
Connectors

Sensors

Pneumatic
Accessories

External Dimensions

● FCA-TC mid trunnion

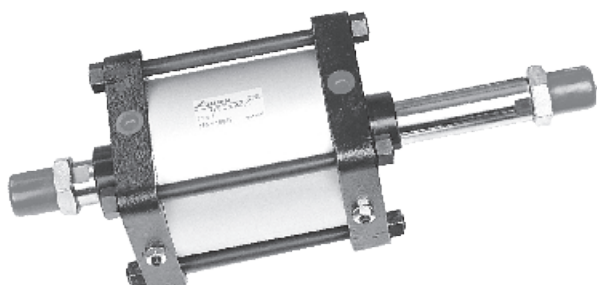


symbol bore	MM	KK	D	E	F	G	H	I	J	K	M	N	P
125	35	M30x1.5	40	35	50	34	42	19	32	14	M12x1.5	110	35
150	40	M36x1.5	45	45	55	34	52	25	37	17	M16x1.5	128	40
160	40	M36x1.5	56	54	55	42	44	25	37	17	M16x1.5	140	40
180	45	M39x1.5	55	50	63	42	48	30	42	17	M18x1.5	160	50
200	50	M45x1.5	60	57	68	42	56	30	47	20	M20x1.5	172	55
250	60	M56x2.0	70	57	78	42	64	35	56	20	M22x1.5	220	60
300	60	M56x2.0	70	70	78	50	76	35	56	22	M26x1.5	250	60

symbol bore	Q	S	T	U	X	Y	Z	RC
125	160	90	55	230	35	12	75	Rc1/2
150	194	105	60	274	40	17	82	Rc1/2
160	206	118	64	286	40	17	82	Rc3/4
180	236	116	66	336	50	17	90	Rc3/4
200	260	127	70	370	56	20	98	Rc3/4
250	320	131	74	440	63	22	106	Rc3/4
300	350	158	88	470	63	24	126	Rc1

Note: Stroke must more than 100ST (excluding 100ST) if need to add an induction switch.

FCC Double Rods Cylinders



1.The front and rear end covers are basically equipped with cushions.

2.Magnets can be attached and magnetic sensors can be installed (Ø125~Ø200).

Order Indication

FCC		SD	125	100ST		T × n
series	performance	installation type	bore	stroke	end connectors	magnetic sensor
double rods cylinders	blank: indicates standard G: sensor (bore 125, 150, 160, 200 only) H: shaft with dust cover J: heat/ acid & alkali resistance	SD: basic FA: front flange FB: rear flange LB: end flange TC: mid trunnion	125:125mm 150:150mm 160:160mm 180:180mm 200:200mm 250:250mm 300:300mm		Y : Y connector I : I connector PIN: pin	JFS01 T: 2 outgoing lines, standard line is 2 m P:PNP 3 outgoing lines, standard line is 2 m N:NPN 3 outgoing lines, standard line is 2 m n: qty *The order with G mark but no T × n mark indicates that only induction magnet is attached without magnetic sensor JFS01 

! blank = indicates standard, no need to specify when order

Note: Stroke must more than 100ST (excluding 100ST) if need to add an induction switch.

Note:If you want to order sensor double rods cylinders,please change the series code to "ALC".

Air Preparation (FRL)

Pneumatic Valves

Pneumatic Cylinders

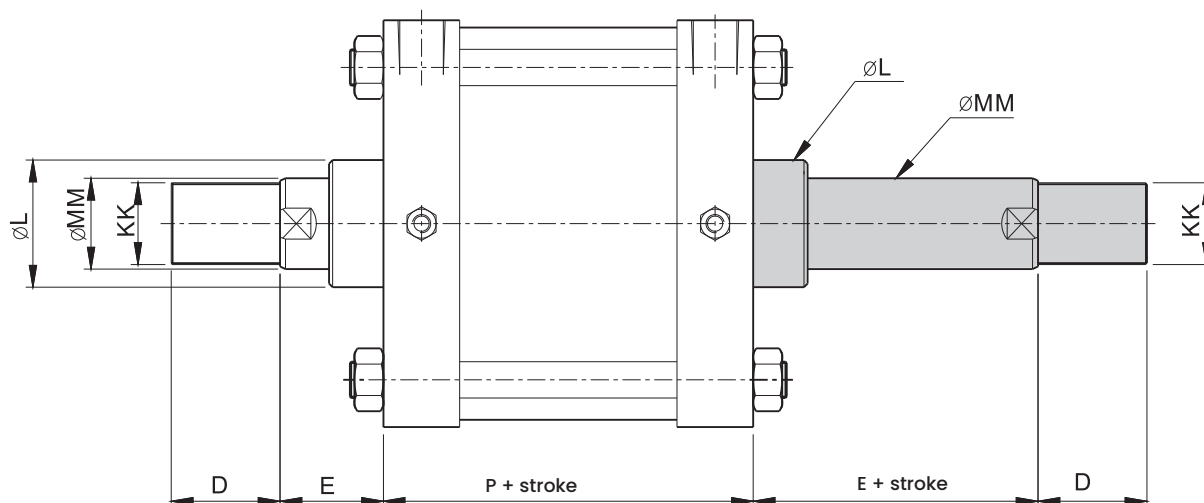
Pneumatic Connectors

Sensors

Pneumatic Accessories

External Dimensions

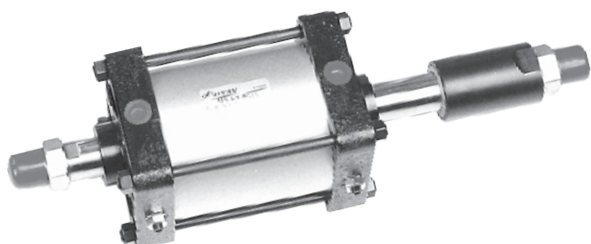
● FCC-SD basic



bore symbol	MM	KK	D	E	L	P
125	35	M30x1.5	40	35	56	110
150	40	M36x1.5	45	45	60	120
160	40	M36x1.5	56	54	60	128
180	45	M39x1.5	55	50	65	132
200	50	M45x1.5	60	57	70	140
250	60	M56x2.0	70	57	84	148
300	60	M56x2.0	70	70	84	176

▲ note: For external dimensions of other accessories, please refer to P.127~P.135 FCA double-acting cylinder.

FCD Double Rods Cylinders (with forward alignment)



1.The front and rear end covers are basically equipped with cushions.

2.Magnets can be attached and magnetic sensors can be installed (Ø125~Ø200).

Order Indication

FCD		SD	125	100ST		25	T × n
series	performance	installation type	bore	stroke	end connectors	adjustable stroke	magnetic sensor
double rods tie-rod cylinders (with forward alignment)	blank: indicates standard G: sensor (bore 125, 150, 160, 200 only) H: shaft with dust cover J: heat/ acid & alkali resistance	SD: basic FA: front flange FB: rear flange LB: end flange TC: mid trunnion	125:125mm 150:150mm 160:160mm 180:180mm 200:200mm 250:250mm 300:300mm		Y : Y connector I : I connector PIN: pin	basic types: 25mm & 50mm	JFS01 T: 2 outgoing lines, standard line is 2 m P:PNP 3 outgoing lines, standard line is 2 m N:NPN 3 outgoing lines, standard line is 2 m n: qty *The order with G mark but no T × n mark indicates that only induction magnet is attached without magnetic sensor JFS01 

! blank = indicates standard, no need to specify when order

Note: Stroke must more than 100ST (excluding 100ST) if need to add an induction switch.

Note:If you want to order sensor double rods cylinders,please change the series code to "ALD".

Air Preparation (FRL)

Pneumatic Valves

Pneumatic Cylinders

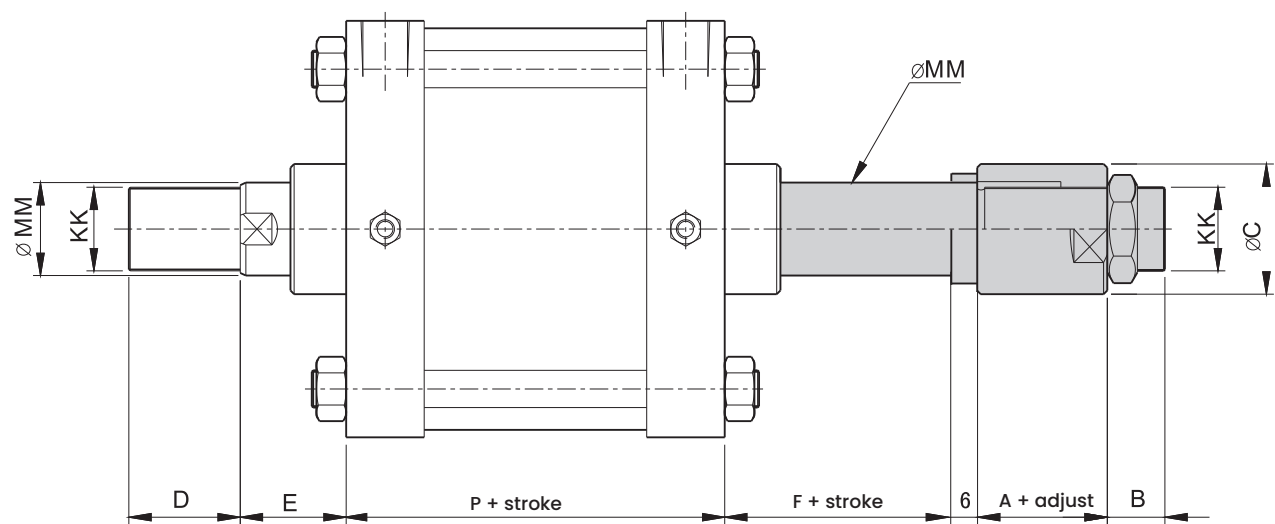
Pneumatic Connectors

Sensors

Pneumatic Accessories

External Dimensions

FCD-SD basic



bore symbol	MM	KK	A	B	C	D	E	F	P
125	35	M30x1.5	36	20	55	40	35	19	110
150	40	M36x1.5	36	23	60	45	45	25	120
160	40	M36x1.5	36	20	60	56	54	25	128
180	45	M39x1.5	36	23	60	55	50	30	132
200	50	M45x1.5	41	23	70	60	57	30	140
250	60	M56x2.0	46	25	90	70	57	35	148
300	60	M56x2.0	46	25	90	70	70	35	176

▲ note: For external dimensions of other accessories, please refer to P.127~P.135 FCA double-acting cylinder.