

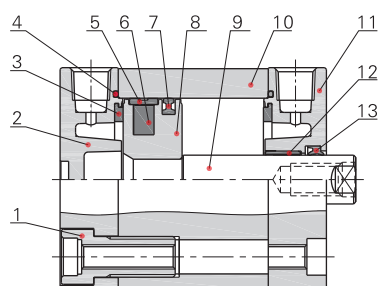
Cilindro compatto

AirTAC

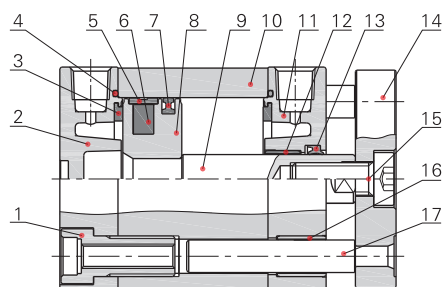
Serie ACE

Struttura interna

ACE-S



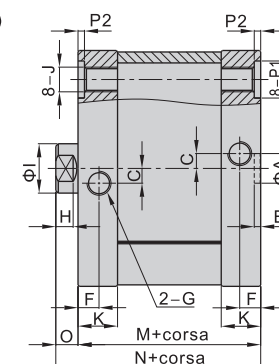
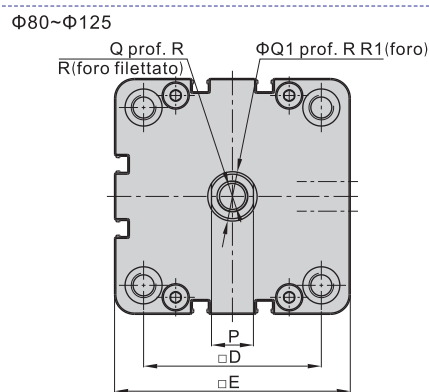
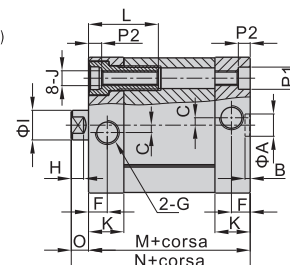
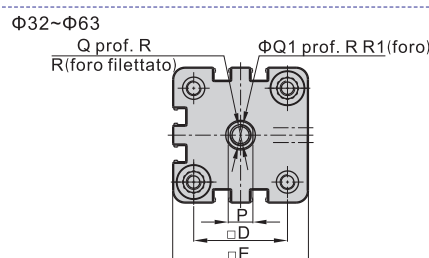
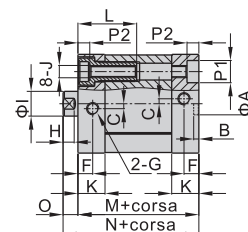
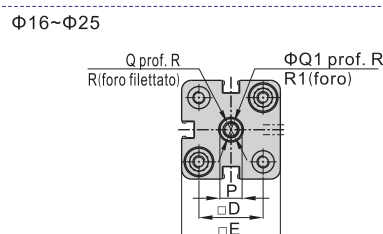
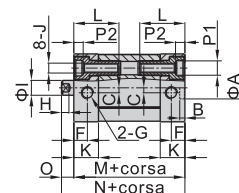
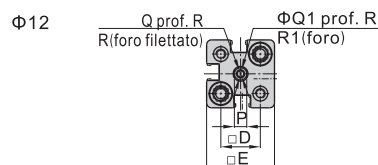
TACE-S



Nr. Voce	Materiale
1 Vite	Acciaio al carbonio
2 Testata posteriore	Lega d'alluminio
3 Ammortizzo	TPU
4 O-ring	NBR
5 Guarnizione	Φ 12~20: non presente Altri: materiali antiusura
6 Magnete	Φ 12~20: neodimio Altri: polimero
7 O-ring pistone	TPU
8 Pistone	Lega di alluminio
9 Stelo	Φ 12~20: acciaio inox Altri: S45C
10 Camicia	Lega di alluminio
11 Testata anteriore	Lega di alluminio
12 Guarnizione	Φ 12~25: non presente Altri: materiali antiusura
13 O-ring	NBR
14 Piastra	Lega di alluminio
15 Vite	Acciaio al carbonio
16 Guarnizione	Materiali antiusura
17 Guida	Φ 12~40: acciaio inox Altri: S45C

Struttura esterna

Modello: ACE



Alesaggio\Voce	A	B	C	D	E	F	G	H	I	J	K	L
12	9	2.1	2	16	27.5	5.5	M5 × 0.8	3.7	6	M4 × 0.7	10	18.3
16	9	2.1	2	18	30	5.5	M5 × 0.8	3.7	8	M4 × 0.7	10	18.3
20	9	2.1	2	22	35.5	6	M5 × 0.8	4.5	10	M5 × 0.8	10.5	23.8
25	9	2.1	2	26	40	6	M5 × 0.8	4.5	10	M5 × 0.8	11	23.8
32	9	2.1	3	32.5	49.5	7.6	1/8"	5	12	M6 × 1.0	14	28.3
40	9	2.1	3	38	55	7.6	1/8"	5	12	M6 × 1.0	14.3	28.3
50	12	2.6	3	46.5	65.5	7.6	1/8"	6	16	M8 × 1.25	14.3	30.3
63	12	2.6	4	56.5	75.5	7.6	1/8"	6	16	M8 × 1.25	15	30.3
80	12	2.6	6	72	95.5	8.5	1/8"	7	20	M10 × 1.5	16	—
100	12	2.6	7	89	113.5	10.5	1/8"	7	20	M10 × 1.5	19	—
125	12	2.6	8	110	134.5	10.5	G1/4	9	25	M12 × 1.75	20	—

Alesaggio\Voce	M	N	O	P	P1	P2	Q	Q1	R	R1
12	35	40	5	5	6	3.5	M3 × 0.5	3.3	8	1.5
16	35	40	5	7	6	3.5	M4 × 0.7	4.5	10	1.5
20	37	43	6	9	9	4.8	M6 × 1.0	6.5	14	2.6
25	39	45	6	9	9	4.8	M6 × 1.0	6.5	14	2.6
32	44	51	7	10	9	4.8	M8 × 1.25	8.5	16	3.3
40	45.5	52.5	7	10	9	4.8	M8 × 1.25	8.5	16	3.3
50	45.5	53.5	8	13	11	4.8	M10 × 1.5	10.5	20	4.7
63	49	57	8	13	11	4.8	M10 × 1.5	10.5	20	4.7
80	54	63	9	17	15	2.6	M12 × 1.75	12.5	20	6.1
100	67	76	9	17	15	2.6	M12 × 1.75	12.5	20	6.1
125	81	92	11	21	—	—	M16 × 2.0	16.5	25	7

Note: i modelli con e senza magneti hanno dimensioni identiche. Per i modelli con stelo filettato maschio, fare riferimento a pagina 201.



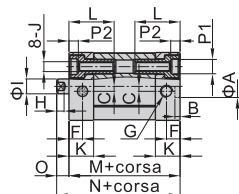
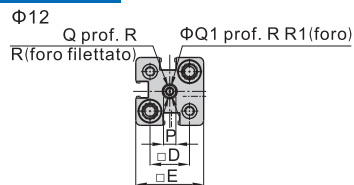
ACE

Cilindro compatto

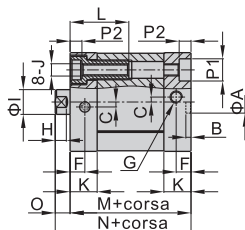
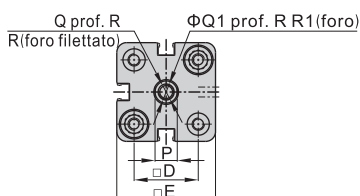
AirTAC

Serie ACE

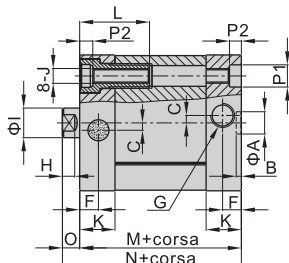
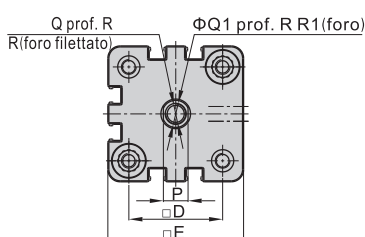
Modello: ASE



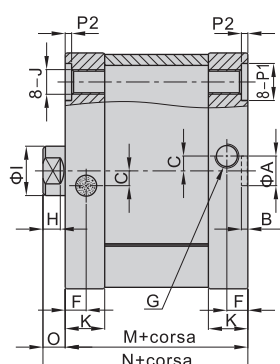
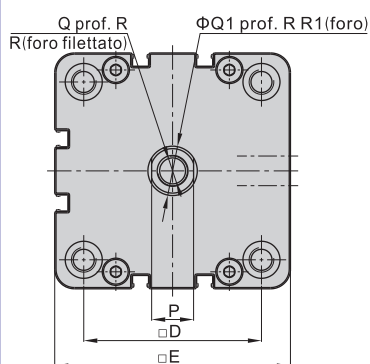
Φ12~Φ25



Φ32~Φ63



Φ80/Φ100

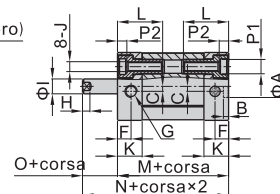
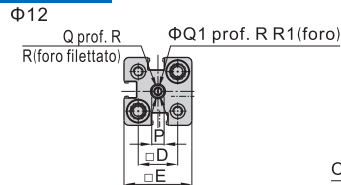


Alesaggio/Voce	A	B	C	D	E	F	G	H	I	J	K
12	9	2.1	2	16	27.5	5.5	M5 × 0.8	3.7	6	M4 × 0.7	10
16	9	2.1	2	18	30	5.5	M5 × 0.8	3.7	8	M4 × 0.7	10
20	9	2.1	2	22	35.5	6	M5 × 0.8	4.5	10	M5 × 0.8	10.5
25	9	2.1	2	26	40	6	M5 × 0.8	4.5	10	M5 × 0.8	11
32	9	2.1	3	32.5	49.5	7.6	1/8"	5	12	M6 × 1.0	14
40	9	2.1	3	38	55	7.6	1/8"	5	12	M6 × 1.0	14.3
50	12	2.6	3	46.5	65.5	7.6	1/8"	6	16	M8 × 1.25	14.3
63	12	2.6	4	56.5	75.5	7.6	1/8"	6	16	M8 × 1.25	15
80	12	2.6	6	72	95.5	8.5	1/8"	7	20	M10 × 1.5	16
100	12	2.6	7	89	113.5	10.5	1/8"	7	20	M10 × 1.5	19

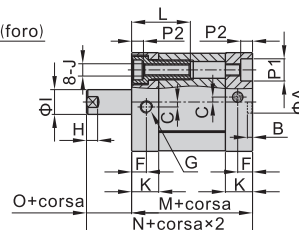
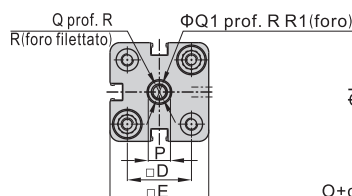
Alesaggio/Voce	L	M	N	O	P	P1	P2	Q	Q1	R	R1
12	18.3	35	40	5	5	6	3.5	M3 × 0.5	3.3	8	1.5
16	18.3	35	40	5	7	6	3.5	M4 × 0.7	4.5	10	1.5
20	23.8	37	43	6	9	9	4.8	M6 × 1.0	6.5	14	2.6
25	23.8	39	45	6	9	9	4.8	M6 × 1.0	6.5	14	2.6
32	28.3	44	51	7	10	9	4.8	M8 × 1.25	8.5	16	3.3
40	28.3	45.5	52.5	7	10	9	4.8	M8 × 1.25	8.5	16	3.3
50	30.3	45.5	53.5	8	13	11	4.8	M10 × 1.5	10.5	20	4.7
63	30.3	49	57	8	13	11	4.8	M10 × 1.5	10.5	20	4.7
80	-	54	63	9	17	15	2.6	M12 × 1.75	12.5	20	6.1
100	-	67	76	9	17	15	2.6	M12 × 1.75	12.5	20	6.1

Note: i modelli con e senza magneti hanno dimensioni identiche. Per i modelli con stelo filettato maschio, fare riferimento a pagina 201.

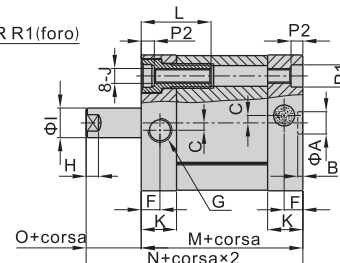
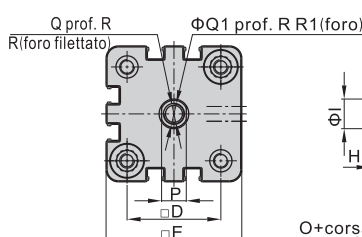
Modello: ATE



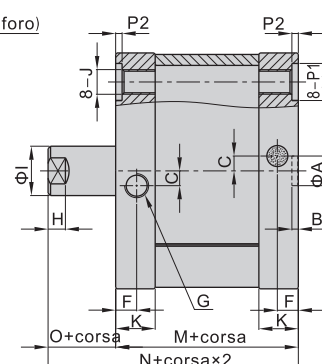
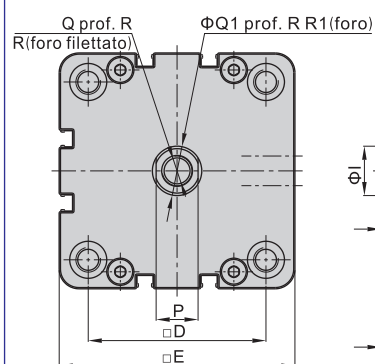
Φ16~Φ25



Φ32~Φ63



Φ80/Φ100



Alesaggio/Voce	A	B	C	D	E	F	G	H	I	J	K
12	9	2.1	2	16	27.5	5.5	M5 × 0.8	3.7	6	M4 × 0.7	10
16	9	2.1	2	18	30	5.5	M5 × 0.8	3.7	8	M4 × 0.7	10
20	9	2.1	2	22	35.5	6	M5 × 0.8	4.5	10	M5 × 0.8	10.5
25	9	2.1	2	26	40	6	M5 × 0.8	4.5	10	M5 × 0.8	11
32	9	2.1	3	32.5	49.5	7.6	1/8"	5	12	M6 × 1.0	14
40	9	2.1	3	38	55	7.6	1/8"	5	12	M6 × 1.0	14.3
50	12	2.6	3	46.5	65.5	7.6	1/8"	6	16	M8 × 1.25	14.3
63	12	2.6	4	56.5	75.5	7.6	1/8"	6	16	M8 × 1.25	15
80	12	2.6	6	72	95.5	8.5	1/8"	7	20	M10 × 1.5	16
100	12	2.6	7	89	113.5	10.5	1/8"	7	20	M10 × 1.5	19

Alesaggio/Voce	L	M	N	O	P	P1	P2	Q	Q1	R	R1
12	18.3	35	40	5	5	6	3.5	M3 × 0.5	3.3	8	1.5
16	18.3	35	40	5	7	6	3.5	M4 × 0.7	4.5	10	1.5
20	23.8	37	43	6	9	9	4.8	M6 × 1.0	6.5	14	2.6
25	23.8	39	45	6	9	9	4.8	M6 × 1.0	6.5	14	2.6
32	28.3	44	51	7	10	9	4.8	M8 × 1.25	8.5	16	3.3
40	28.3	45.5	52.5	7	10	9	4.8	M8 × 1.25	8.5	16	3.3
50	30.3	45.5	53.5	8	13	11	4.8	M10 × 1.5	10.5	20	4.7
63	30.3	49	57	8	13	11	4.8	M10 × 1.5	10.5	20	4.7
80	-	54	63	9	17	15	2.6	M12 × 1.75	12.5	20	6.1
100	-	67	76	9	17	15	2.6	M12 × 1.75	12.5	20	6.1

Note: i modelli con e senza magneti hanno dimensioni identiche. Per i modelli con stelo filettato maschio, fare riferimento a pagina 201.

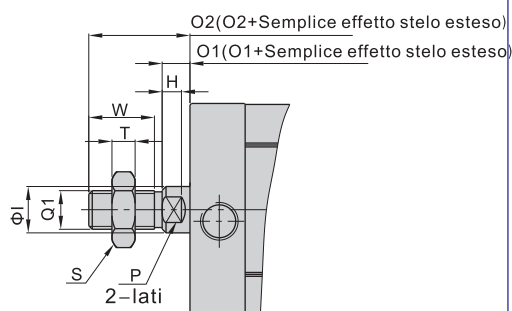


Cilindro compatto

AirTAC

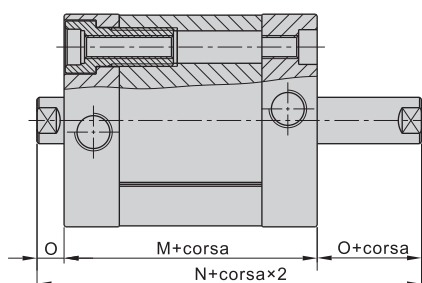
Serie ACE

Dimensioni modello filettato maschio

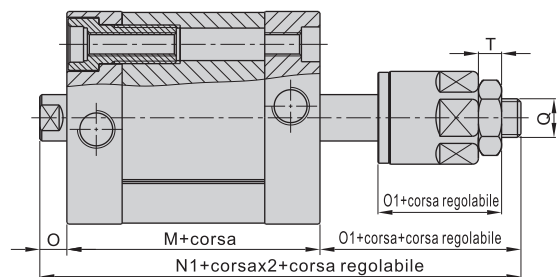


Allesaggio\Voce	O1	O2	W	S	T	Q1	H	I	P
12	5	15	9	8	4	M5 × 0.8	3.7	6	5
16	5	17	11	10	5	M6 × 1.0	3.7	8	7
20	6	22	15	12	6	M8 × 1.25	4.5	10	9
25	6	22	15	12	6	M8 × 1.25	4.5	10	9
32	7	26	17	17	6	M10 × 1.25	5	12	10
40	7	26	17	17	6	M10 × 1.25	5	12	10
50	8	30	20	17	7	M12 × 1.25	6	16	13
63	8	30	20	17	7	M12 × 1.25	6	16	13
80	9	37	26	23	8	M16 × 1.5	7	20	17
100	9	37	26	23	8	M16 × 1.5	7	20	17
125	11	51	38	26	10	M20 × 1.5	9	25	21

Modello: ACED



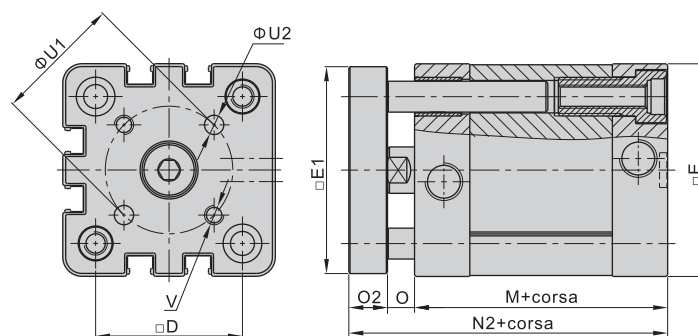
Modello: ACEJ



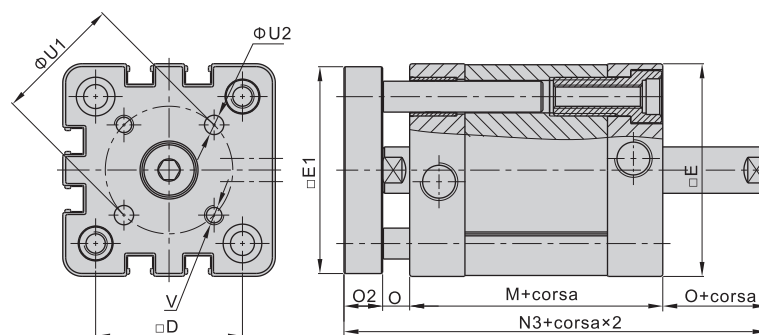
Allesaggio\Voce	M	N	N1	O	O1	T	Q
12	35	45	57	5	17	4	M5 × 0.8
16	35	45	61	5	21	5	M6 × 1.0
20	37	49	68	6	25	6	M8 × 1.25
25	39	51	70	6	25	6	M8 × 1.25
32	44	58	78	7	27	6	M10 × 1.25
40	45.5	59.5	79.5	7	27	6	M10 × 1.25
50	45.5	61.5	81.5	8	28	7	M12 × 1.25
63	49	65	85	8	28	7	M12 × 1.25
80	54	72	92	9	29	8	M16 × 1.5
100	67	85	105	9	29	8	M16 × 1.5
125	81	103	127.5	11	35.5	10	M20 × 1.5

Note: cilindri ACE con corse non standard hanno le stesse dimensioni dei cilindri con corse standard; cilindri con e senza magneti hanno le stesse dimensioni.

Modello: TACE



Modello: TACED



Allesaggio\Voce	D	E	E1	M	N2	N3	O	O2	U1	U2	V
12	16	27.5	26.5	35	46	51	5	6	12	3	M3 × 0.5
16	18	30	29	35	46	51	5	6	14	3	M3 × 0.5
20	22	35.5	34.5	37	51	57	6	8	17	4	M4 × 0.7
25	26	40	39	39	53	59	6	8	22	5	M5 × 0.8
32	32.5	49.5	48	44	61	68	7	10	28	5	M5 × 0.8
40	38	55	53.5	45.5	62.5	69.5	7	10	33	5	M5 × 0.8
50	46.5	65.5	64	45.5	65.5	73.5	8	12	42	6	M6 × 1.0
63	56.5	75.5	74	49	69	77	8	12	50	6	M6 × 1.0
80	72	95.5	94	54	77	86	9	14	65	8	M8 × 1.25
100	89	113.5	112	67	90	99	9	14	80	10	M10 × 1.5

Note: cilindri ACE con corse non standard hanno le stesse dimensioni dei cilindri con corse standard; cilindri con e senza magneti hanno le stesse dimensioni.



ACE

Floating Joint

Table for floating joint and cylinder

Cylinder	SE							SI						
Accessory	32	40	50	63	80	100	125	32	40	50	63	80	100	125
F-M10125F	●							●						
F-M12125F		●							●					
F-M16150F			●	●						●	●			
F-M20150F					●	●						●	●	

Cylinder	SGC				SC				JSI			
Accessory	125	160	200	250	32	40	50	63	80	100	32	40
F-M10125F					●						●	
F-M12125F						●						
F-M14150F												●
F-M16150F							●	●				
F-M18150F											●	●
F-M20150F									●	●		

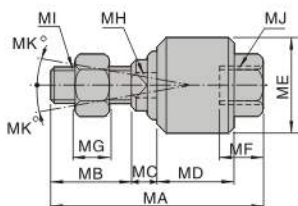
Cylinder	ACP							ACQ						
Accessory	12	16	20	25	32	40	50	63	80	100	12	16	20	25
F-M08125F		●											●	
F-M10125F			●	●	●	●								●
F-M12125F							●	●						
F-M14150F													●	●
F-M16150F								●						
F-M18150F													●	●
F-M20150F									●					

Cylinder	MA				MAL				MF			
Accessory	16	20	25	32	40	50	63	20	25	32	40	20
F-M06100F	●											
F-M08125F		●						●				●
F-M10125F			●	●					●	●		●
F-M12125F					●						●	
F-M14150F						●	●					●

Cylinder	PB					MI				
Accessory	4	6	10	12	16	8	10	12	16	20
F-M03050F		●								
F-M04070F			●			●	●			
F-M05080F				●	●					
F-M06100F								●	●	
F-M08125F										●
F-M10125F										●
F-M12125F										●

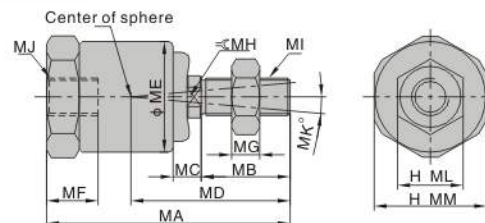
Dimensions

M8\M10\M12\M14\M16\M18\M20



Type/Item	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK
F-M08125F	51	20	6	17	24	11.5	6	8	M8 x 1.25	M8 x 1.25	13
F-M10125F	58	22	7	21	26	11.5	6	10	M10 x 1.25	M10 x 1.25	12
F-M12125F	58	22	8	21	28	11.5	7	12	M12 x 1.25	M12 x 1.25	12
F-M14150F	70	22.2	8.5	28	34.5	17	8	14	M14 x 1.5	M14 x 1.5	12
F-M16150F	90	27	10	41	44.5	19	8	17	M16 x 1.5	M16 x 1.5	7
F-M18150F	92	27	10	41	44.5	22	11	18	M18 x 1.5	M18 x 1.5	7
F-M20150F	102	29	13	46	53	22	10	22	M20 x 1.5	M20 x 1.5	10

M3\M4\M5\M6



Type/Item	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ
F-M03050F	23.5	7.5	3	15	11.8	5.5	2.4	4	M3 x 0.5	M3 x 0.5
F-M04070F	26	9.5	3	17	11.8	5.5	3	4	M4 x 0.7	M4 x 0.7
F-M05080F	34.5	13.5	3.5	23	13.8	7.5	4	6	M5 x 0.8	M5 x 0.8
F-M06100F	34.5	13.5	3.5	23	13.8	7.5	4	6	M6 x 1.0	M6 x 1.0

Type/Item	ML	MM	Angle compensation	Radial direction compensation
F-M03050F	5.5	12	± 5°	0.5
F-M04070F	7	12	± 5°	0.5
F-M05080F	8	14	± 5°	0.5
F-M06100F	10	14	± 5°	0.5



Ordering code

F	—	M10	125	F
Accessories code				Code
				F Floating Joint

Screw thread		Thread pitch	
M3	M3	050	0.5mm
M4	M4	070	0.7mm
M5	M5	080	0.8mm
M6	M6	100	1.0mm
M8	M8	125	1.25mm
M10	M10		
M12	M12		
M14	M14		
M16	M16		
M18	M18		
M20	M20		
		150	1.5mm

I Knuckle

■ Table for I knuckle and cylinder

Cylinder Accessory	SE							SI								
	32	40	50	63	80	100	125	32	40	50	63	80	100	125	160	200
F-M10125II	●							●								
F-M12125II		●							●							
F-M16150II			●	●						●	●					
F-M20150II					●	●						●	●			
F-M27200II							●							●		
F-M36200II															●	●

Cylinder Accessory	SGC				SC					
	125	160	200	250	32	40	50	63	80	100
F-M10125II					●					
F-M12125II						●				
F-M16150II							●	●		
F-M20150II									●	●
F-M27200II	●									
F-M36200II		●	●							
F-M42200II				●						

Cylinder Accessory	MA							MAL				MI							
	16	20	25	32	40	50	63	20	25	32	40	8	10	12	16	20	25	32	40
F-M04070II													●	●					
F-M06100II	●														●	●			
F-M08125II		●						●									●		
F-M10125II			●	●					●	●								●	●
F-M12125II																			●
F-M12125IA					●						●								
F-M14150II						●	●												

Cylinder Accessory	ACQ									
	12	16	20	25	32	40	50	63	80	100
F-M05080IQ	●									
F-M06100IQ		●								
F-M08125IQ			●							
F-M10125IQ				●						
F-M14150IQ					●	●				
F-M18150IQ							●	●		
F-M22150IQ									●	
F-M26150IQ										●

Cylinder Accessory	JSI						
	32	40	50	63	80	100	125
F-M10125IJ	●						
F-M14150IJ		●					
F-M18150IJ			●	●			
F-M22150IJ					●		
F-M26150IJ						●	
F-M27200IJ							●

Cylinder Accessory	MF			
	20	25	32	40
F-M08125IF	●			
F-M10125IF		●	●	
F-M14150IF				●

Cylinder Accessory	PB				
	4	6	10	12	16
F-M04070IB			●		
F-M05080IB				●	●



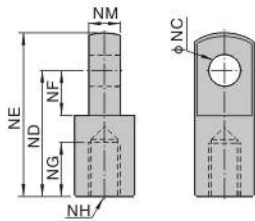
■ Ordering code

F		M16		150		I		I	
Accessories code				Knuckle					
Screw thread				Thread pitch		I I Knuckle		Code	
M04	M4			070	0.7mm			I	ISO standard type
M05	M5			080	0.8mm			J	JSI series
M06	M6			100	1.0mm			Q	ACQ series
M08	M8			125	1.25mm			A	MA series
M10	M10							B	PB series
M12	M12							F	MF series
M14	M14			150	1.5mm				
M16	M16								
M18	M18								
M20	M20								
M22	M22								
M26	M26								
M27	M27			200	2.0mm				
M36	M36								
M42	M42								

I Knuckle

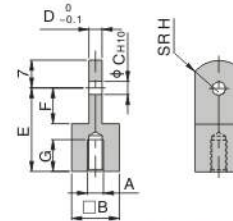
■ Dimensions

ISO standard type



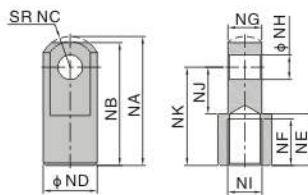
Type/Item	NC	ND	NE	NF	NG	NH	NM
F-M04070II	4	16	21	6.8	8	M4X0.7	3.9
F-M06100II	5	21	28	8.5	8	M6 × 1.0	6
F-M08125II	8	30	40	11	15	M8 × 1.25	8
F-M10125II	10	40	50	15	20	M10 × 1.25	10
F-M12125II	12	48	62	24	20	M12 × 1.25	12
F-M16150II	16	64	82	32	23	M16 × 1.5	16
F-M20150II	20	80	102	40	30	M20 × 1.5	20
F-M27200II	30	110	139	51	45	M27 × 2.0	30
F-M36200II	35	144	181	65	55	M36 × 2.0	35
F-M42200II	40	168	211	85	62	M42X2.0	40

PB Series



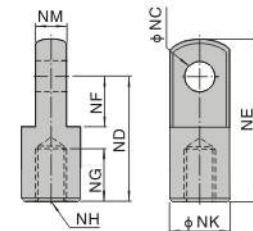
Type/Item	A	B	C	D	E	F	G	H
F-M04070IB	M4 × 0.7	12	3.3	3	21	9.1	7.5	8
F-M05080IB	M5 × 0.8	12	5	6.3	25	14.1	7.5	12

JSI Series



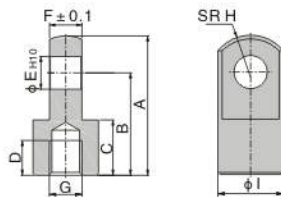
Type/Item	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NI
F-M10125IJ	42	40	12	20	17	14	13.8	10	16	30	M10 × 1.25
F-M14150IJ	52.5	50	12.5	22	21	19	13.8	10	19	40	M14 × 1.5
F-M18150IJ	66.5	64	16.5	28	27	24	19.8	14	24	50	M18 × 1.5
F-M22150IJ	83.5	80	23.5	40	29	26	29.8	22	34	60	M22 × 1.5
F-M26150IJ	83.5	80	23.5	40	29	26	29.8	22	34	60	M26 × 1.5
F-M27200IJ	120.5	119	28.5	45	40	36	31.8	25	34	92	M27 × 2.0

MA Series



Type/Item	NC	ND	NE	NF	NG	NH	NK	NM
F-M12125IA	10	45	57	16.5	23	M12 × 1.25	24	14

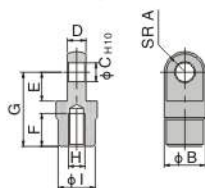
ACQ Series



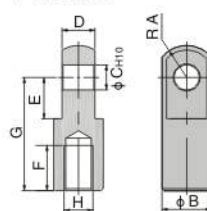
Type/Item	A	B	C	D	E	F	G	H	I
F-M05080IQ	21.5	16	9	6	5	4.7	M5x0.8	6.3	10
F-M06100IQ	32	25	11	8	5	6.2	M6x1.0	8.1	12
F-M08125IQ	34	25	13.5	8.5	8	7.7	M8x1.25	10.3	16
F-M10125IQ	41	30	16	11	10	9.7	M10x1.25	12.8	20
F-M14150IQ	42	30	16	14	10	17.6	M14x1.5	12	22
F-M18150IQ	56	40	20	18	14	21.6	M18x1.5	16	28
F-M22150IQ	71	50	23	21	18	27.6	M22x1.5	21	38
F-M26150IQ	79	55	24	22	22	31.6	M26x1.5	24	44

MF Series

F-M08125IF
F-M10125IF



F-M14150IF



Type/Item	A	B	C	D	E	F	G	H	I
F-M08125IF	9.5	20	9	9	14	16	36	M8 × 1.25	18
F-M10125IF	9.5	20	9	9	14	18	38	M10 × 1.25	18
F-M14150IF	15	24	12	16	20	22	55	M14 × 1.5	-



■ Table for universal joint and cylinder

Cylinder	SE							SI						
Accessory	32	40	50	63	80	100	125	32	40	50	63	80	100	125
F-M10125U	●							●						
F-M12125U		●							●					
F-M16150U			●	●						●	●			
F-M20150U					●	●						●	●	
F-M27200U							●							●
F-M36200U													●	●

Cylinder	SGC				SC				JSI			
Accessory	125	160	200	250	32	40	50	63	80	100	32	40
F-M10125U					●						●	
F-M12125U						●						
F-M14150U												●
F-M16150U						●	●					
F-M18150U											●	●
F-M20150U									●	●		
F-M27200U	●											
F-M36200U		●	●									

Cylinder	MI				PB				MF				MA			
Accessory	8	10	12, 16	20	25, 32	40	10	12, 16	20	25, 32	40	16	20	25, 32	40	50, 63
F-M04070U	●	●						●								
F-M05080U								●								
F-M06100U			●										●			
F-M08125U				●					●					●		
F-M10125U					●					●					●	
F-M12125U						●					●					●
F-M14150U												●				●

Cylinder	MAL				ACQ				ACP			
Accessory	20	25	32	40	12	16	20	25	32	40	50	63
F-M05080U					●							
F-M06100U						●						
F-M08125U	●						●					
F-M10125U		●	●					●				
F-M12125U				●								
F-M14150U								●	●			
F-M16150U												●
F-M18150U										●	●	
F-M20150U												●

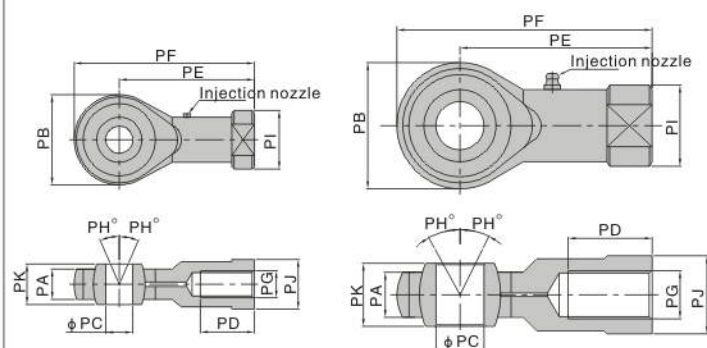
■ Ordering code

F		M10		125		U	
Accessories code				Code			
Screw thread				Thread pitch			
M04	M4			070	0.7mm	U	Universal Joint
M05	M5			080	0.8mm		
M06	M6			100	1.0mm		
M08	M8			125	1.25mm		
M10	M10						
M12	M12						
M14	M14			150	1.5mm		
M16	M16						
M18	M18						
M20	M20						
M27	M27			200	2.0mm		
M36	M36						

■ Dimensions

M8 and below

M10 and above



Type/Item	PA	PB	PC(H9)	PD	PE	PF	PG	PH	PI	PJ	PK
F-M04070U	6	18	4	10	27	36	M4 × 0.7	13	12.5	10	8
F-M05080U	6	18	5	10	27	36	M5 × 0.8	13	12.5	10	8
F-M06100U	6.8	20	6	12	30	40	M6 × 1.0	13	13	11	9
F-M08125U	9	24	8	16	36	48	M8 × 1.25	13	16	14	12
F-M10125U	11	26	10	20	43	56	M10 × 1.25	13	19	17	14
F-M12125U	12	32	12	22	50	66	M12 × 1.25	13	22	19	16
F-M14150U	14	36	14	28	57	75	M14 × 1.5	13	25	22	19
F-M16150U	15	40	16	28	64	84	M16 × 1.5	15	27	22	21
F-M18150U	16.5	46	18	30	71	94	M18 × 1.5	15	31	27	23
F-M20150U	18	46	20	33	77	100	M20 × 1.5	15	34	30	25
F-M27200U	24	66	28	51	103	136	M27 × 2.0	15	46	41	35
F-M36200U	27.5	80	35	56	125	165	M36 × 2.0	15	57.5	50	43

Y Knuckle

Table for Y knuckle and cylinder

Cylinder	SE							SI						
Accessory	32	40	50	63	80	100	125	32	40	50	63	80	100	125
F-M10125YI	•							•						
F-M12125YI		•							•					
F-M16150YI			•	•						•	•			
F-M20150YI					•	•						•	•	
F-M27200YI							•							•
F-M36200YI														•

Cylinder	SGC				SC				
Accessory	125	160	200	250	32	40	50	63	80
F-M10125YI					•				
F-M12125YI						•			
F-M16150YI							•	•	
F-M20150YI									•
F-M27200YI	•								
F-M36200YI		•	•						
F-M42200YI				•					

Cylinder	MA					MAL			
Accessory	16	20	25	32	40	50	63	20	25
F-M06100YI	•							•	
F-M08125YI		•							
F-M10125YI			•	•				•	•
F-M12125YA					•				
F-M14150YJ						•	•		

Cylinder	ACQ									
Accessory	12	16	20	25	32	40	50	63	80	100
F-M05080YQ	•									
F-M06100YQ		•								
F-M08125YQ			•							
F-M10125YQ				•						
F-M14150YQ					•	•				
F-M18150YQ							•	•		
F-M22150YQ									•	
F-M26150YQ										•

Cylinder	MI							
Accessory	8	10	12	16	20	25	32	40
F-M04070YE	•	•						
F-M06100YE			•	•				
F-M08125YE					•			
F-M10125YE						•	•	
F-M12125YI								•

Cylinder	JSI					
Accessory	32	40	50	63	80	100
F-M10125YJ	•					
F-M14150YJ		•				
F-M18150YJ			•	•		
F-M22150YJ					•	
F-M26150YJ						•
F-M27200YJ						•

Cylinder	MF			
Accessory	20	25	32	40
F-M08125YF	•			
F-M10125YF		•	•	
F-M14150YF				•

Cylinder	PB				
Accessory	4	6	10	12	16
F-M04070YB			•		
F-M05080YB				•	•



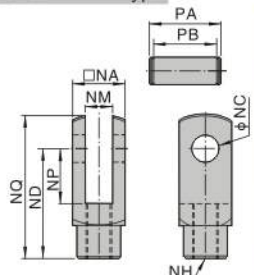
Ordering code

F		M16		150		Y		I	
Accessories code				Knuckle				Code	
Screw thread				Thread pitch		Y Knuckle		Code	
M04	M4	070	0.7mm	I	ISO standard type				
M05	M5	080	0.8mm	E	ISO standard type (MI series M10 and below)				
M06	M6	100	1.0mm	J	JSI series				
M08	M8	125	1.25mm	Q	ACQ series				
M10	M10			A	MA series				
M12	M12			B	PB series				
M14	M14	150	1.5mm	F	MF series				
M16	M16								
M18	M18								
M20	M20								
M22	M22								
M26	M26								
M27	M27	200	2.0mm						
M36	M36								
M42	M42								

Y Knuckle

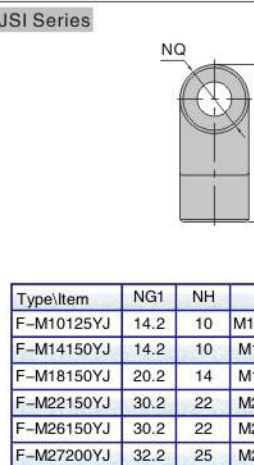
■ Dimensions

ISO standard type



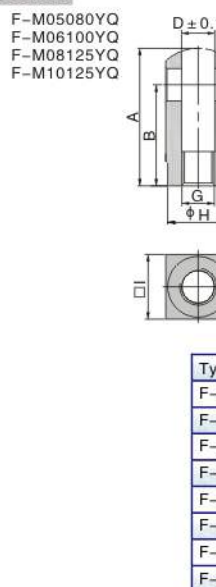
Type\Item	NA	NC	ND	NP	NQ	NM	NH	PA	PB
F-M06100YI	12	5	21	14	28	6	M6 × 1.0	17.2	12.5
F-M08125YI	16	8	30	15	40	8	M8 × 1.25	21.6	16.5
F-M10125YI	19	10	40	20	52	10	M10 × 1.25	25.6	20
F-M12125YI	25.4	12	48	24	62	12	M12 × 1.25	32.4	26.2
F-M16150YI	32	16	64	32	80	16	M16 × 1.5	39	33
F-M20150YI	44.4	20	80	40	102	20	M20 × 1.5	53.4	45
F-M27200YI	54	30	110	55	139	30	M27 × 2.0	64.2	55
F-M36200YI	70	35	144	73	179	35	M36 × 2.0	80.2	71
F-M42200YI	85	40	168	86	211	40.3	M42 × 2.0	115	93

JSI Series



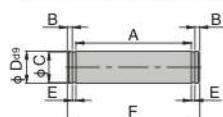
Type\Item	NG1	NH	NI	NL	NM	NO	NP	NQ	NR	NS	PA	PB
F-M10125YJ	14.2	10	M10 × 1.25	27.8	16	10	30	20	40	20	34.6	28.8
F-M14150YJ	14.2	10	M14 × 1.5	27.8	19	17	40	22	51	22	34.6	28.8
F-M18150YJ	20.2	14	M18 × 1.5	39.8	24	19	50	28	64	28	47	40.8
F-M22150YJ	30.2	22	M22 × 1.5	59.8	34	20	65	40	85	40	69.2	60.8
F-M26150YJ	30.2	22	M26 × 1.5	59.8	34	20	65	40	85	40	69.2	60.8
F-M27200YJ	32.2	25	M27 × 2.0	63.8	42	47	100	54	127	46	73.2	64.8

ACQ Series



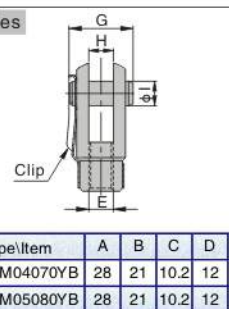
Type\Item	A	B	D	E	F	G	H	I	J
F-M05080YQ	22	16	5.3	5	6	M5 × 0.8	9	10	-
F-M06100YQ	28	21	6.6	5	11	M6 × 1.0	11	12	-
F-M08125YQ	34	25	8.3	8	8.5	M8 × 1.25	15	16	-
F-M10125YQ	41	30	10.3	10	10.5	M10 × 1.25	19	20	-
F-M14150YQ	42	30	18.4	10	16	M14 × 1.5	22	22	36
F-M18150YQ	56	40	22.4	14	20	M18 × 1.5	28	28	44
F-M22150YQ	71	50	28.4	18	23	M22 × 1.5	38	38	56
F-M26150YQ	79	55	32.4	22	24	M26 × 1.5	44	44	64

PIN



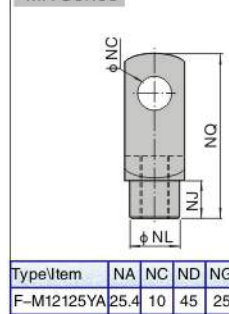
Type\Item	F-05080YQ	F-06100YQ	F-08125YQ	F-10125YQ	F-14150YQ	F-18150YQ	F-22150YQ	F-26150YQ
A	10.2	12.2	16.2	20.2	36.2	44.2	56.2	64.2
B	1.5	1.5	1.5	2	2	2	2	2.5
C	3	3	6	8	8	12	15	19
D	5	5	8	10	10	14	18	22
E	0.7	0.7	0.9	1.1	1.1	1.1	1.7	1.7
F	14.6	16.6	21	26.4	42.4	50.4	63.6	72.6

PB Series



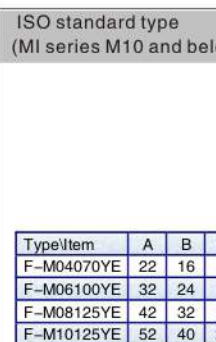
Type\Item	A	B	C	D	E	F	G	H	I
F-M04070YB	28	21	10.2	12	M4 × 0.7	10	15.5	3.2	3.3
F-M05080YB	28	21	10.2	12	M5 × 0.8	10	15.5	6.5	5

MA Series



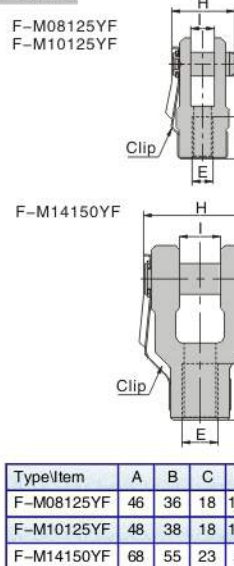
Type\Item	NA	NC	ND	NG	NH	NJ	NL	NM	NN	NP	NQ	PA	PB
F-M12125YA	25.4	10	45	25	M12 × 1.25	15	23	14	10	20	57	32	26.2

ISO standard type (MI series M10 and below)



Type\Item	A	B	C	D	E	F	G	H	I
F-M04070YE	22	16	8	8	M4 × 0.7	7	11.5	4	4
F-M06100YE	32	24	12	12	M6 × 1.0	10	16	6	6
F-M08125YE	42	32	16	16	M8 × 1.25	14	21	8	8
F-M10125YE	52	40	20	19	M10 × 1.25	18	25	10	10

MF Series



Type\Item	A	B	C	D	E	F	G	H	I	J
F-M08125YF	46	36	18	17.5	M8 × 1.25	16	16	24	9	9
F-M10125YF	48	38	18	17.5	M10 × 1.25	18	16	24	9	9
F-M14150YF	68	55	23	26	M14 × 1.5	22	25	44	16	12

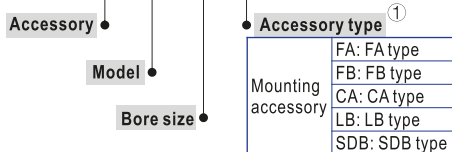
Compact cylinder

AIRTAC

Accessories

Ordering code

F-ACE 50 LB



① The listed accessories are for ACE cylinder. Accessories that are adaptable to other cylinders are not shown. Please refer to accessory list on P206 for selection and ordering information.

Accessory selection

Cylinder model	Accessories								
	LB	FA	FB	CA	CB	CR	SDB	FTC	TCM2
ACE	●	●	●	●	●	●	●	●	●
ASE/ATE	●	●	●	●	●	●	●	●	●
ACED/ACEJ	●	●	×	×	×	×	×	●	●
TACE	×	×	●	●	●	●	●	●	●
TACED	×	×	●	×	×	×	×	×	×

Cylinder model	Accessories	Knuckle ①				Sensor switch ②	
		I	Y	F	U	CS1-E	DS1-E
ACE	Female thread	Standard	×	×	×	×	×
		With magnet	×	×	×	●	●
	Male thread	Standard	●	●	●	×	×
		With magnet	●	●	●	●	●
ASE/ATE	Female thread	Standard	×	×	×	×	×
		With magnet	×	×	×	●	●
	Male thread	Standard	●	●	●	×	×
		With magnet	●	●	●	●	●
ACED/ACEJ	Female thread	Standard	×	×	×	×	×
		With magnet	×	×	×	●	●
	Male thread	Standard	●	●	●	×	×
		With magnet	●	●	●	●	●
TACE/TACED	Female thread	Standard	×	×	×	×	×
		With magnet	×	×	×	●	●

① The I knuckle and Y knuckle for bore $\Phi 12$ are adaptable to ACQ cylinders, and other knuckles are common parts. Please refer to P377~380 for knuckle detail.

② Please refer to P381~402 for detail of sensor switch.

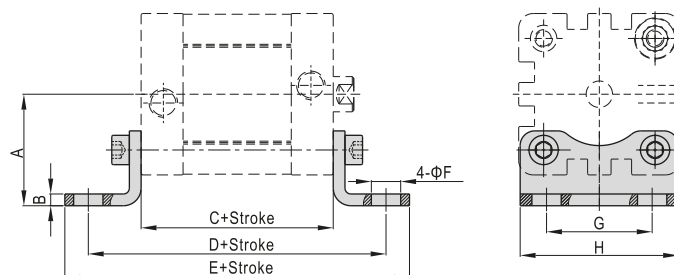
Material of accessories

Bore size	Accessories								
	LB	FA	FB	CA	CB	CR	SDB	FTC	TCM2
12~25	△	●	●	●	—	—	△	■	●
32~100	△	●	●	◇	◇	◇	—	■	●
125	—	◇	◇	◇	◇	◇	—	■	●

● — Aluminum alloy; ■ — Cast iron;
◇ — Ductile Iron; △ — SPCC; □ — Carbon Steel;

Dimensions

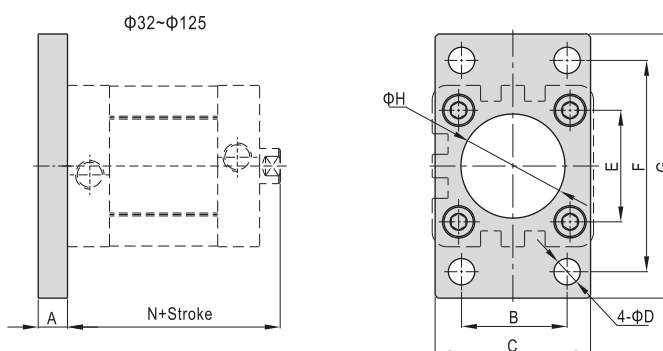
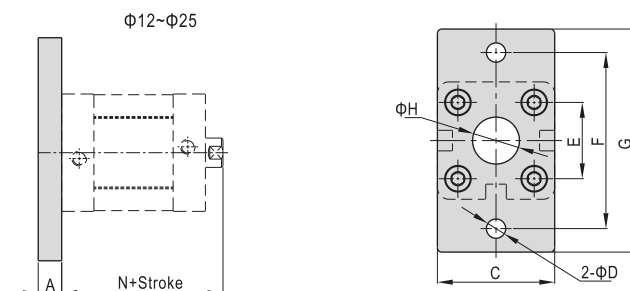
LB



Bore size\Item	A	B	C	D	E	F	G	H
12	21	3	35	61	71	5.5	16	25
16	22	3	35	61	70.6	5.5	18	27
20	27	3.8	37	69	81.6	6.5	22	34
25	29	3.8	39	71	83.6	6.5	26	38
32	33.5	4	44	76	89	7	32	48
40	38	4	45.5	81.5	97.5	10	36	54
50	45	5	45.5	87.5	103.5	10	45	65
63	50	5	49	91	107	10	50	75
80	63	6	54	106	127	12	63	95
100	74	6	67	121	146	14.5	75	112

Note) Valve C in the above table is only for ACE series. Please refer to relevant content for valve C of other series.

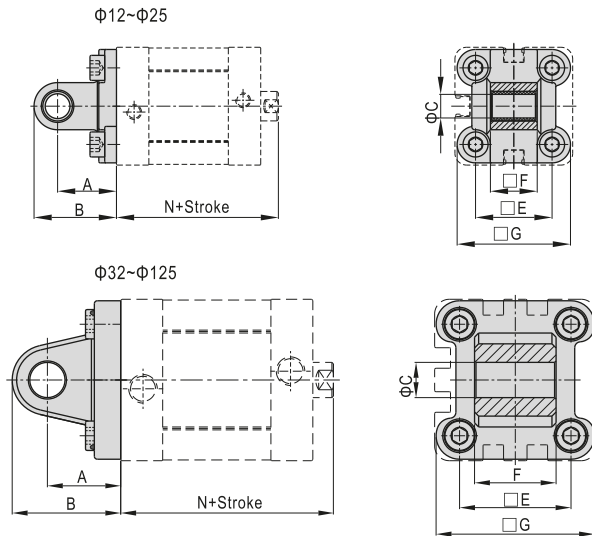
FA/FB



Bore size\Item	A	B	C	D	E	F	G	H	N
12	8	—	25	5.5	16	40	55	10	40
16	8	—	30	5.5	18	43	55	10	40
20	8	—	35	6.6	22	55	68	16	43
25	8	—	39.5	6.6	26	60	76	16	45
32	10	32	47	7	32.5	64	80	30.5	51
40	10	36	53	9	38	72	90	35.5	52.5
50	12	45	65	9	46.5	90	108	40.5	53.5
63	12	50	75	9	56.5	100	118	45.5	57
80	16	63	95	12.5	72	126	150	45.5	63
100	16	75	115	14.5	89	150	176	55.5	76
125	20	90	139	16.5	110	180	218	60.5	92

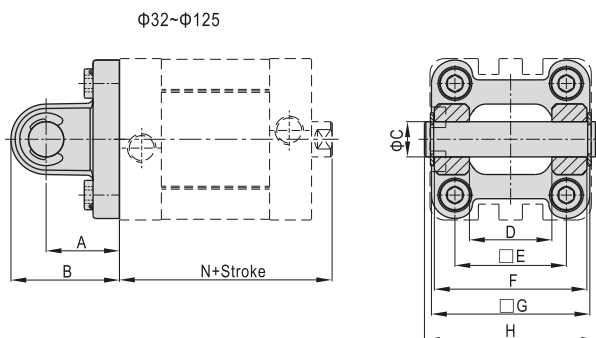


CA



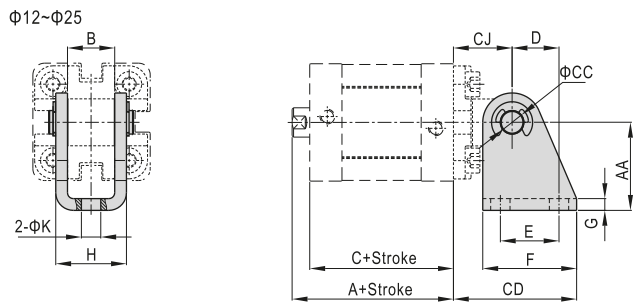
Bore size\Item	A	B	C	E	F	G	N
12	16	22	6	16	11.9	24	40
16	16	22	6	18	11.9	28.5	40
20	20	28	8	22	15.9	34.5	43
25	20	28	8	26	15.9	38.5	45
32	22	32.5	10	32.5	25.8	46.5	51
40	25	37	12	38	27.8	54	52.5
50	27	39	12	46.5	31.7	64	53.5
63	32	47	16	56.5	39.7	75	57
80	36	51.5	16	72	49.7	93	63
100	41	61	20	89	59.7	110	76
125	50	74	25	110	69.7	134	92

CB



Bore size\Item	A	B	C	D	E	F	G	H	N
32	22	32.5	10	26	32.5	45	46.5	51	51
40	25	37	12	28	38	52	54	59	52.5
50	27	39	12	32	46.5	60	64	67	53.5
63	32	47	16	40	56.5	70	75	77	57
80	36	51.5	16	50	72	90	93	97	63
100	41	61	20	60	89	110	110	119	76
125	50	74	25	70	110	130	134	139	92

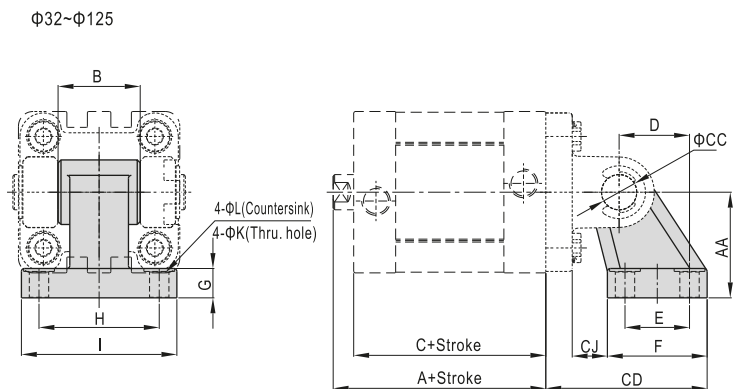
SDB



Bore size\Item	A	AA	B	C	CC	CD	CJ	D	E	F	G	H	K
12	40	27	12.1	35	6	34	16	13	15	25	3	18.1	5.5
16	40	27	12.1	35	6	34	16	13	15	25	3	18.1	5.5
20	43	30	16.1	37	8	42	20	16	20	32	4	24.1	6.6
25	45	30	16.1	39	8	42	20	16	20	32	4	24.1	6.6

Note) SDB can't be used alone, it must be used with CA.

CR



Bore size\Item A	AA	B	C	CC	CD	CJ	D	E	F	G	H	I	K	L	
32	51	32	26	44	10	50	10	21	18	31	8	38	51	6.6	11
40	52.5	36	28	45.5	12	56	12	24	22	35	10	41	54	6.6	11
50	53.5	45	32	45.5	12	68	13	33	30	45	12	50	65	9	14
63	57	50	40	49	16	77	17	37	35	50	12	52	67	9	14
80	63	63	50	54	16	93	19	47	40	60	14	66	86	11	17
100	76	71	60	67	20	106	22	55	50	70	15	76	96	11	17
125	92	90	70	81	25	135	26	70	60	90	20	94	124	14	20

Note) CR can't be used alone, it must be used with CB.



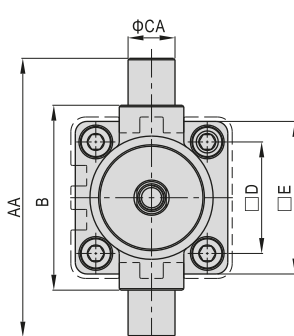
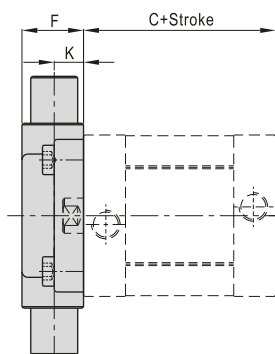
ACE

Compact cylinder

Accessories

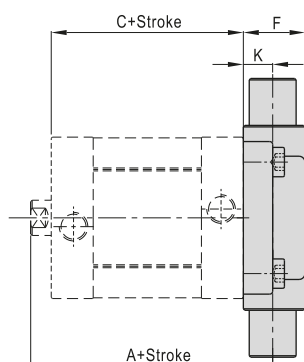
FTC

Φ32~Φ125



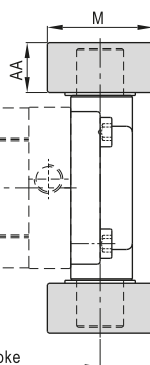
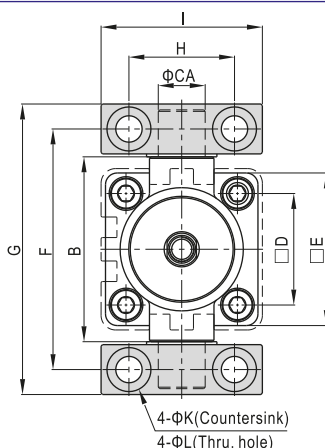
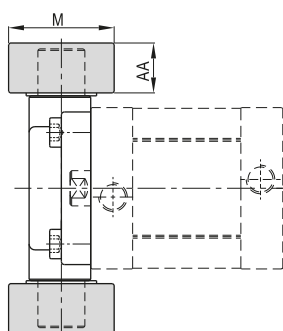
Bore size\Item	A	AA	B	C	CA
32	63	74	50	44	12
40	66.5	95	63	45.5	16
50	71.5	107	75	45.5	16
63	77	130	90	49	20
80	85	150	110	54	20
100	102	185	132	67	25
125	124	210	160	81	25

Bore size\Item	D	E	F	K
32	32.5	46	19	10
40	38	52	21	10
50	46.5	64	26	12
63	56.5	74	28	12
80	72	94	31	16
100	89	114	35	16
125	110	139	43	20



TCM2

Φ32~Φ125



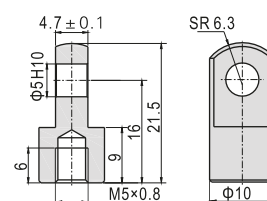
Bore size\Item	A	AA	B	CA	D	E	F	G	H	I	K	L	M
32	63	14	52	12	32.5	46	66	80	32	46	11	7	30
40	66.5	17	65	16	38	52	82	99	36	55	15	9	36
50	71.5	17	75	16	46.5	64	94	111	36	55	15	9	36
63	77	20.5	90	20	56.5	74	113.5	134	42	65	18	11	40
80	85	20.5	112	20	72	94	133.5	154	42	65	18	11	40
100	102	24.5	135	25	89	114	159.5	184	50	75	20	14	50
125	124	24.5	170	25	110	139	187.5	212	50	75	20	14	50

Note) TCM2 can't be used alone, it must be used with FTC.

The installation position of the accessories can not be adjusted arbitrarily.

I knuckle

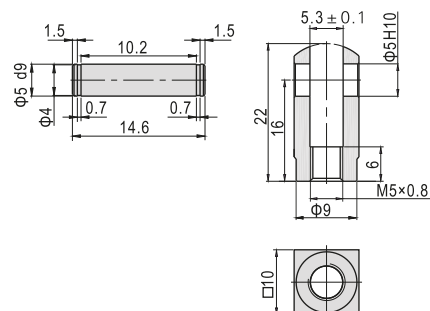
F-ACQ12I



Note) Other I knuckles are common parts. Please refer to P377 for knuckle detail.

Y knuckle

F-ACQ12Y



Note) Other Y knuckles are common parts. Please refer to P378 for knuckle detail.

List for ordering code of accessories

Accessories		Mounting accessory		
Bore size	LB	FA/FB	CA	CB
12	F-ACE12LB	F-ACE12FA	F-ACE12CA	-
16	F-ACP12LB	F-ACE16FA	F-ACE16CA	-
20	F-ACP20LB	F-ACE20FA	F-ACE20CA	-
25	F-ACP25LB	F-ACE25FA	F-ACE25CA	-
32	F-ACE32LB	F-SI32FA	F-SE32CA	F-SE32CB
40	F-ACE40LB	F-SI40FA	F-SE40CA	F-SE40CB
50	F-ACE50LB	F-SI50FA	F-SE50CA	F-SE50CB
63	F-ACE63LB	F-SI63FA	F-SE63CA	F-SE63CB
80	F-ACE80LB	F-SI80FA	F-SE80CA	F-SE80CB
100	F-ACE100LB	F-SI100FA	F-SE100CA	F-SE100CB
125	-	F-SI125FA	F-SE125CA	F-SE125CB

Accessories		Mounting accessory		
Bore size	CR	SDB	FTC	TCM2
12	-	F-MI12SDB	-	-
16	-	F-MI12SDB	-	-
20	-	F-MI20SDB	-	-
25	-	F-MI20SDB	-	-
32	F-SI32CR	-	F-SI32FTC	F-SI32TCM2
40	F-SI40CR	-	F-SI40FTC	F-SI40TCM2
50	F-SI50CR	-	F-SI50FTC	F-SI40TCM2
63	F-SI63CR	-	F-SI63FTC	F-SI63TCM2
80	F-SI80CR	-	F-SI80FTC	F-SI63TCM2
100	F-SI100CR	-	F-SI100FTC	F-SI125TCM2
125	F-SI125CR	-	F-SI125FTC	F-SI125TCM2

Accessories		Knuckle			
Bore size	I: I Knuckle	Y: Y Knuckle	F: F Knuckle	U: U Knuckle	
12	F-ACQ12I	F-ACQ12Y	F-M5X080F	F-M5X080U	
16	F-M6X100I	F-M6X100Y	F-M6X100F	F-M6X100U	
20	F-M8X125I	F-M8X125Y	F-M8X125F	F-M8X125U	
25	F-M10X125I	F-M10X125Y	F-M10X125F	F-M10X125U	
32	F-M12X125I	F-M12X125Y	F-M12X125F	F-M12X125U	
40	F-M16X150I	F-M16X150Y	F-M16X150F	F-M16X150U	
50	F-M20X150I	F-M20X150Y	F-M20X150F	F-M20X150U	
63					
80					
100					
125					

Accessories		Sensor switch	
Bore size	CS1-E	DS1-E	
12~125	CS1-E	DS1-E	