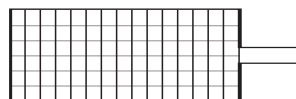




FUJIKURA COMPOSITES

Fujikura BF Cylinders

FC *SERIES***FCS** Single Action Push Type**FCD** Double Action Type**F**ujikura
Cylinder**FUJIKURA RUBBER LTD.**

Fujikura BF Cylinders

DESIGN CONCEPTION :

"No Leakage and Less Friction"

— *The main Design conception that lies extended at the basis of **BF Cylinders**.*

"Precision Control rather than Power"

— *The main object of developing **BF Cylinders**.*

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TYPES

FEATURES IN COMMON

- **Perfect Leak-proof** No Blow-By Leakage.
- **Very Low Friction** : Responsive to minute pressure variations.
: Virtually no hysteresis - loss in movement.
: Low start up pressure as low as 0.01MPa.
: Smooth "Non-Jarring" action.
: Ready to start even after long interval.
- **Lubrication-Free** No Lubricator required in the air line.
- **Excellent resistance to pressure** ... Assured by the rolling principle of **BF Diaphragms**.
(Molded products of durable fabric-reinforced NBR)

PREFERRED APPLICATIONS

- Sensitive Actuators in Automatic Controllers & Instruments, Pressure rollers and Dancer rollers.
- Air line equipment in the clean factories disliking oil mist contamination.
- Polishing equipment for Lenses and Jewels.
- Precision actuators of constant output force. (Spot welder etc.)
- Actuator for emergency use.



Model FCS: Single Action (push)

Model FCD: Double Action

■ SPECIFICATIONS

Operating Style	Single Action (Push)/ Double Action	
Cylinder Diameter	mm	10 to 200
Stroke	mm	6 to 320
Working Fluid	Compressed Air (Non-Lubricated)	
Working Pressure Range	MPa	0.01~0.7
Working Temperature Range	°C	0 to 60
Rod Bearing	Dry Bearing	
Mounting	Direct, L, Front Flange, Rear Flange, Trunnion, Pivot-Mounting	

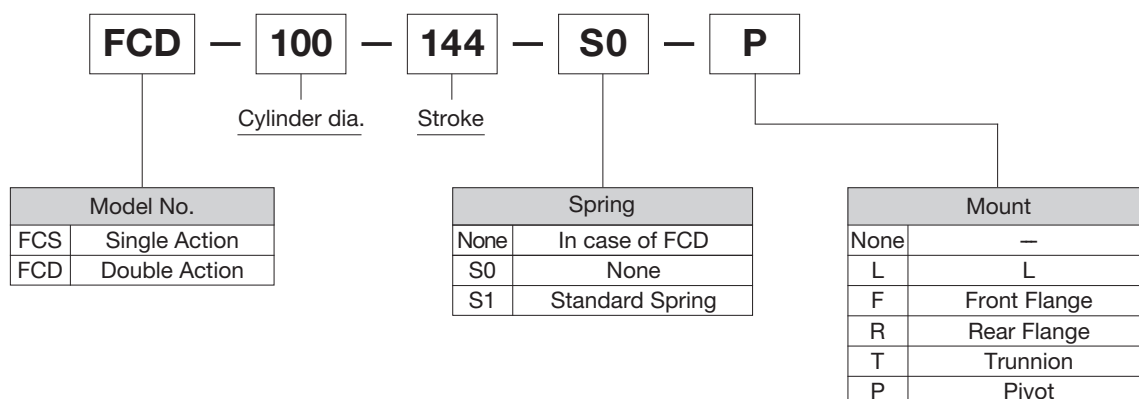
■ FEATURES

- FC Series are standard type of **BF Cylinders**. They are designed in a variety of sizes from 10 to 200.
- Each size is available in both a single action and a double action style.
- A variety of mounts is provided.

■ NOTE

- Customers are requested to follow the " **BF Cylinders** Handling Manual " (KS-569E) before installing and putting in service.
- Large size **BF Cylinders** of 112mm and over in diameter are customized only for individual requirement.
Customers are kindly advised to check up the delivery time.
- Consult Fujikura for any special requirements.

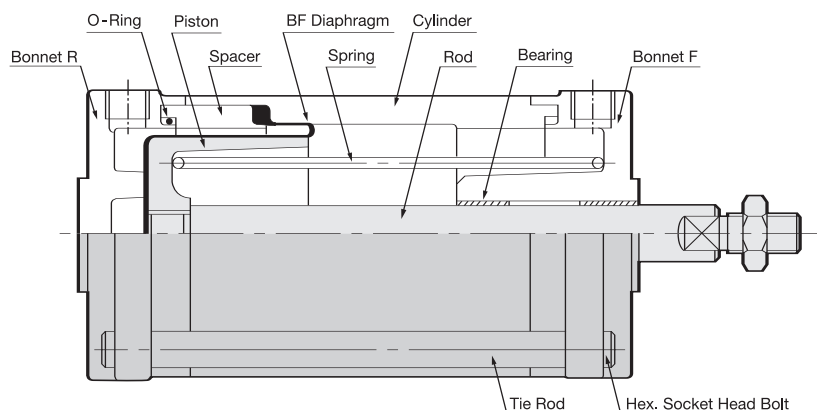
■ ORDERING DATA [Example]



INTERNAL CONSTRUCTION/PARTS DESCRIPTION

(For Cylinders of 40mm and over in diameter)

SINGLE ACTION TYPE Model FCS-40 to-200

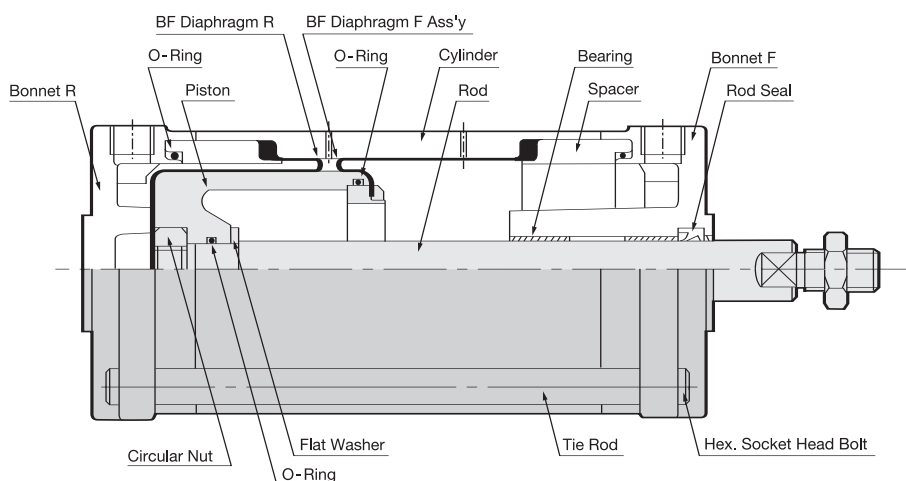


■ PARTS LIST

DESCRIPTION	MATERIAL
Bonnet F/R	A ℓ Alloy Die-Casting A ℓ Alloy Casting (FCS-160 & over)
O-Ring	NBR
Piston	A ℓ Alloy Casting
Cylinder/Spacer	A ℓ Alloy
Rod	Stainless Steel Hard Steel, Hard Chrome Plated (FCS-80 & over)
BF Diaphragm	Fabric Reinforced NBR
Return Spring	Spring Steel Wire
Bearing	Dry Bearing
Tie Rod	Carbon Steel

Note : 1. A ℓ parts are anodic treated.
2. Unless otherwise specified, steel parts are galvanized.
3. A ℓ die-casting parts are bake painted.

DOUBLE ACTION TYPE Model FCD-40 to-100

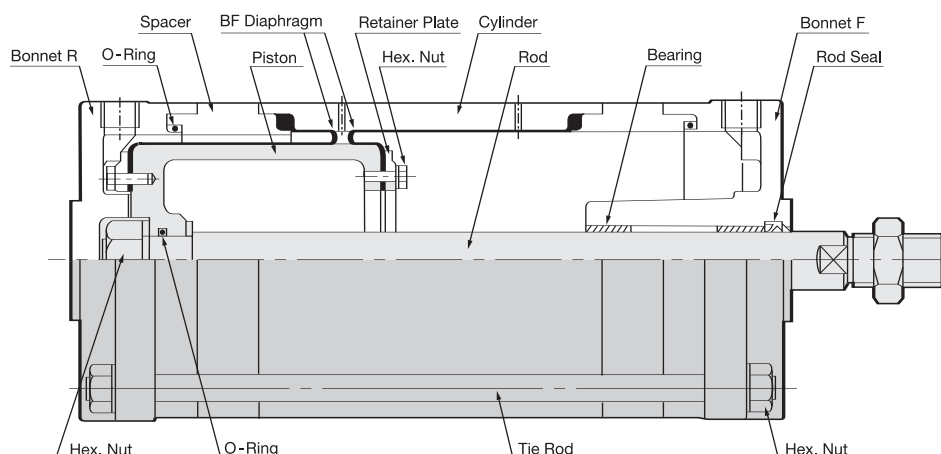


■ PARTS LIST

DESCRIPTION	MATERIAL
Bonnet F/R	A ℓ Alloy Die-Casting
Circular Nut	Carbon Steel
O-Ring	NBR
Piston	A ℓ Alloy Casting
BF Diaphragm R	Fabric Reinforced NBR
BF Diaphragm F Ass'y	Fabric Reinforced NBR with Fitting Caulked
Cylinder/Spacer	A ℓ Alloy
Rod	Stainless Steel Hard Steel, Hard Chrome Plated (FCD-80 & -100)
Bearing	Dry Bearing
Rod Seal	NBR
Tie Rod	Carbon Steel

Note : 1. A ℓ parts are anodic treated.
2. Unless otherwise specified, steel parts are galvanized.
3. A ℓ die-casting parts are bake painted.

DOUBLE ACTION TYPE Model FCD-112 to-200



■ PARTS LIST

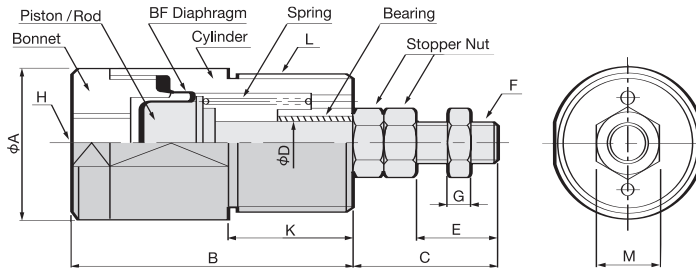
DESCRIPTION	MATERIAL
Bonnet F/R	A ℓ Alloy Die-Casting A ℓ Alloy Casting (FCD-160 & over)
Cylinder/Spacer	A ℓ Alloy Casting
Piston	A ℓ Alloy Casting
BF Diaphragm	Fabric Reinforced NBR
Retainer Plate	A ℓ Alloy Casting
Rod	Hard Steel, Hard Chrome Plated
Bearing	Dry Bearing
Rod Seal	NBR
Tie Rod	Carbon Steel

Note : 1. A ℓ parts are anodic treated.
2. Unless otherwise specified, steel parts are galvanized.
3. A ℓ die-casting parts are bake painted.

Model FCS-10-6 to 20-22



Internal Construction
Outline Dimensions



■ PARTS LIST

DESCRIPTION	MATERIAL
Piston/Rod	Stainless Steel
BF Diaphragm	Fabric Reinforced NBR
Bonnet	Brass
Cylinder	Brass
Spring	Spring Steel Wire
Bearing	Dry Bearing
Stopper Nut	Carbon Steel

F₀/F₁: Spring force at zero/full stroke (N)
A_e: Effective area (mm²)

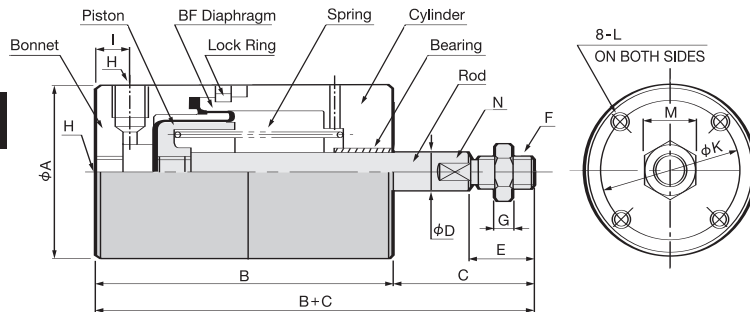
■ OUTLINE DIMENSIONS

Dc-STROKE	A	B	C	D	E	F	G	H	K	L	M	Ae	SPRING FORCE			
													F ₀	F ₁		
10 - 6	18	35	18	5	10	M5×0.5	3.2	Rc 1/8	16	M16×1.5	8	57	0.3	0.9		
12.5- 11	20	45	20		12				20	M18×1.5		95	0.8	2		
16 - 10	24	45	23	7	13	M6×0.75	3.6		20	M22×1.5	10	165	1.5	2.9		
16		58							25							
20 - 8	28	44	26	8	16			20	M26×1.5			269	2	4.9		
22		72						30								

Model FCS-25-6 to 31.5-35



Internal Construction
Outline Dimensions



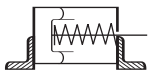
■ PARTS LIST

DESCRIPTION	MATERIAL
Bonnet	Al Alloy
Piston	Al Alloy
BF Diaphragm	Fabric Reinforced NBR
Lock Ring	Brass Wire
Spring	Spring Steel Wire
Cylinder	Al Alloy
Bearing	Dry Bearing
Rod	Stainless Steel

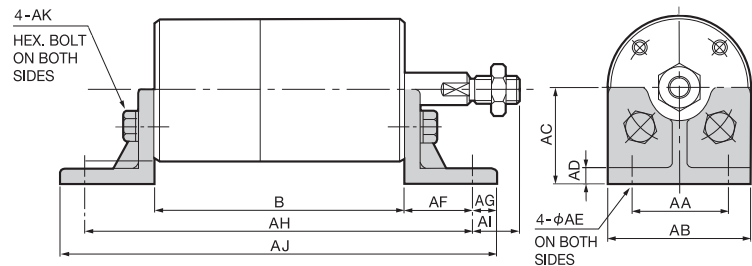
F₀/F₁: Spring force at zero/full stroke (N)
A_e: Effective area (mm²)
N: Wrench flat width

■ OUTLINE DIMENSIONS

Dc-STROKE	A	B	C	B+C	D	E	F	G	H	I	K	L	M	N	A _e	SPRING FORCE	
																F ₀	F ₁
25 - 6	38	46	30	76	8	12	M6 P=0.75	3.6	Rc 1/8	9	30	M4 DP6	10	6	400	3.4	6.9
16		63		93													
26		79		109													
31.5 - 14	45	61	36	97	10	16	M8 P=1	5	Rc 1/8	10	35	M5 DP7.5	13	8	660	4.9	11.8
24		78		114													
35		97		133													

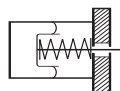


L Type Mount

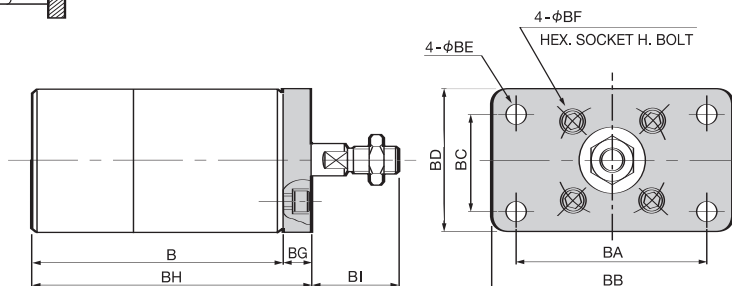


Dc-STROKE	B	AH	AJ
25 - 6	46	84	96
16	63	101	113
26	79	117	129
31.5 - 14	61	105	121
24	78	122	138
35	97	141	157

Dc	AA	AB	AC	AD	AE	AF	AG	AI	AK
25	25	38	25	4	6	19	6	11	M4×10
31.5	30	45	30	5	6	22	8	14	M5×12

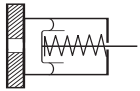


Front Flange Type Mount

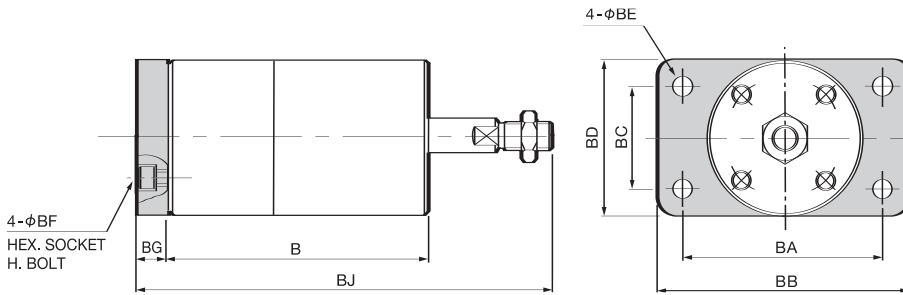


Dc-STROKE	B	BH
25 - 6	46	52
16	63	69
26	79	85
31.5 - 14	61	69
24	78	86
35	97	105

Dc	BA	BB	BC	BD	BE	BF	BG	BI
25	50	65	25	38	5	M4×6	6	24
31.5	60	75	30	45	6	M5×8	8	28

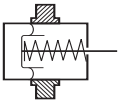


Rear Flange Type Mount

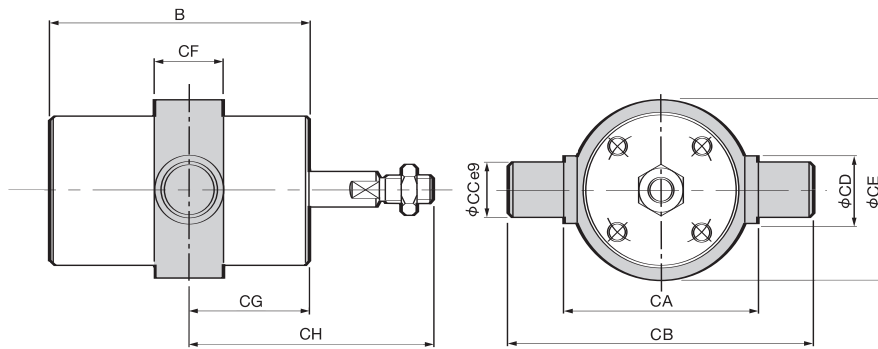


Dc-STROKE	B	BJ
25 - 6	46	82
16	63	99
26	79	115
31.5 - 14	61	105
24	78	122
35	97	141

Dc	BA	BB	BC	BD	BE	BF	BG
25	50	65	25	38	5	M4×6	6
31.5	60	75	30	45	6	M5×8	8

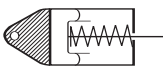


Trunnion Type Mount

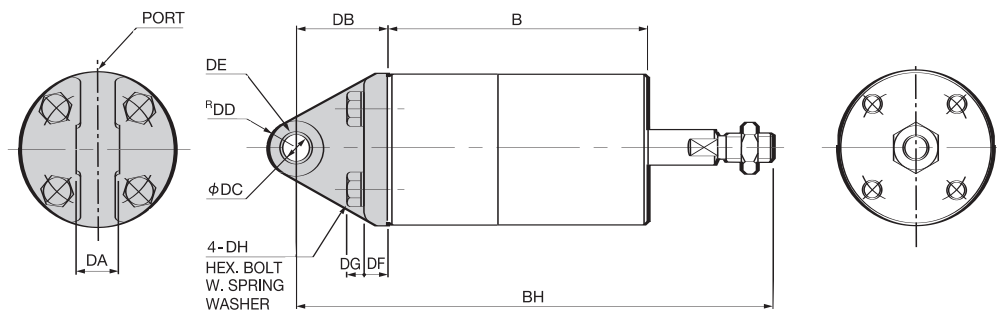


Dc-STROKE	B	CG	CH
25 - 6	46	12	42
16	63	24	54
26	79	40	70
31.5 - 14	61	24	60
24	78	36	72
35	97	48	84

Dc	CA	CB	CC	CD	CE	CF
25	46	66	10	15	46	16
31.5	54	78	12	16	53	17



Pivot Type Mount

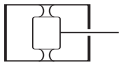


Dc-STROKE	B	BH
25 - 6	46	101
16	63	118
26	79	134
31.5 - 14	61	124
24	78	141
35	97	160

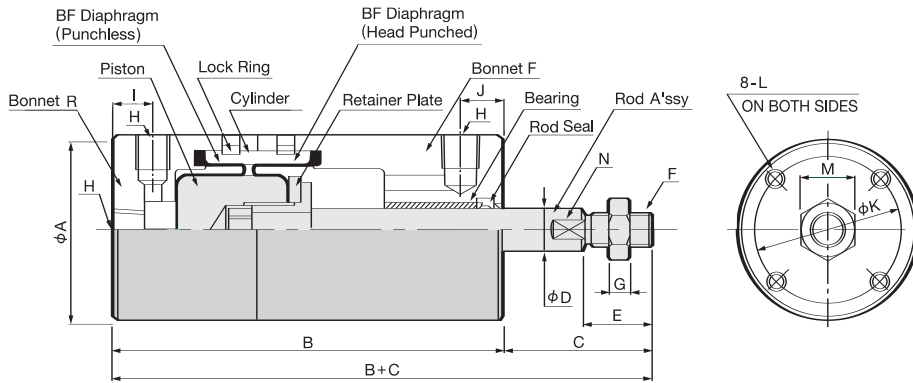
Dc	DA	DB	DC	DD	DE	DF	DG	DH
25	12	25	8	8	0812	6	3.8	M4×12
31.5	13	27	8	8	0812	7	4.8	M4×14

DE : Bearing Size No.

Model FCD-25-6 to 31.5-35



Internal Construction Outline Dimensions



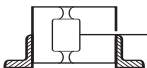
PARTS LIST

DESCRIPTION	MATERIAL
Bonnet	A ℓ Alloy
Piston	A ℓ Alloy
BF Diaphragm	Fabric Reinforced NBR
Lock Ring	Brass Wire
Cylinder	A ℓ Alloy
Retainer Plate	A ℓ Alloy
Bearing	Dry Bearing
Rod Seal	NBR
Rod Ass'y	Stainless Steel/Carbon Steel

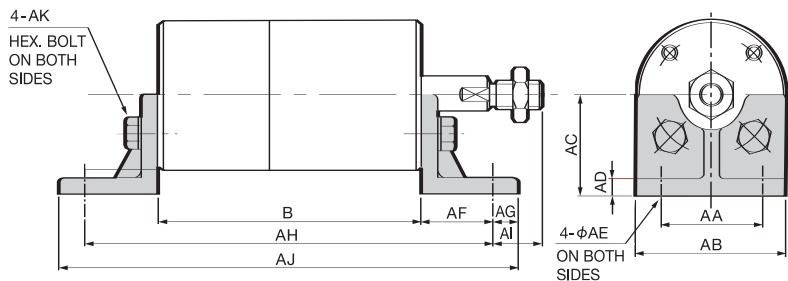
OUTLINE DIMENSIONS

Ae : Effective area (mm²)
N : Wrench flat width

Dc-STROKE	A	B	C	B+C	D	E	F	G	H	I	J	K	L	M	N	Ae	
																PUSH	PULL
25 - 6	38	71	30	101	8	12	M6 P=0.75	3.6	Rc1/8	9	9	30	M4 DP6	10	6	400	350
		86		116													
		101		131													
31.5 - 14	45	85	36	121	10	16	M8 P=1	5	Rc1/8	10	10	35	M5 DP7.5	13	8	660	580
		101		137													
		118		154													

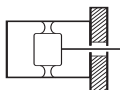


L Type Mount

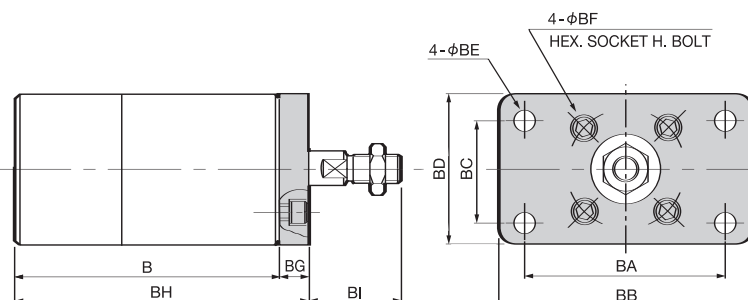


Dc-STROKE	B	AH	AJ
25 - 6	71	109	121
	86	124	136
	101	139	151
31.5 - 14	85	129	145
	101	145	161
	118	162	178

Dc	AA	AB	AC	AD	AE	AF	AG	AI	AK
25	25	38	25	4	6	19	6	11	M4×10
31.5	30	45	30	5	6	22	8	14	M5×12

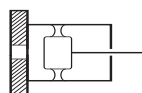


Front Flange Type Mount

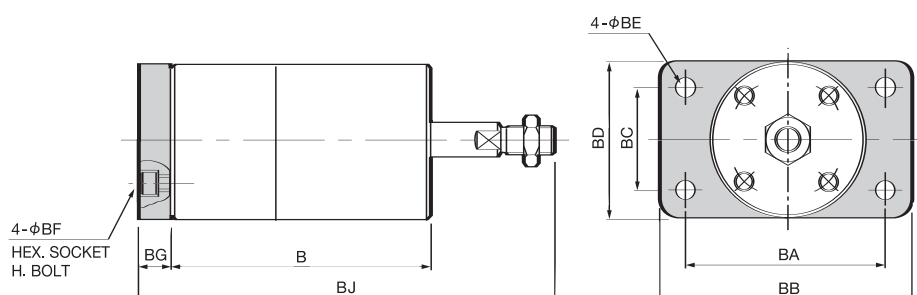


Dc-STROKE	B	BH
25 - 6	71	77
	86	92
	101	107
31.5 - 14	85	93
	101	109
	118	126

Dc	BA	BB	BC	BD	BE	BF	BG	BI
25	50	65	25	38	5	M4×6	6	24
31.5	60	75	30	45	6	M5×8	8	28

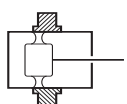


Rear Flange Type Mount

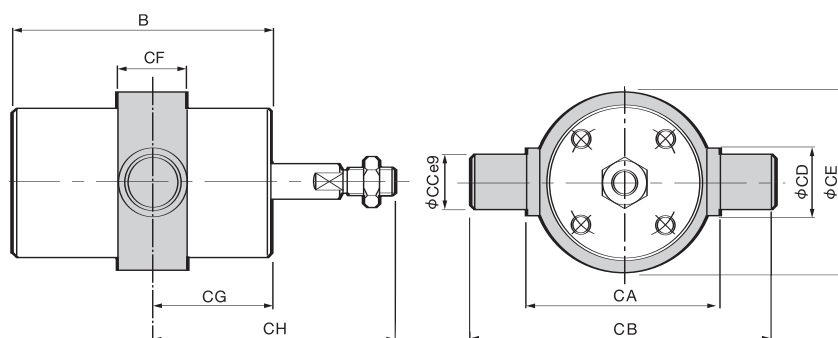


Dc-STROKE	B	BJ
25 - 6	71	107
16	86	122
26	101	137
31.5 - 14	85	129
24	101	145
35	118	162

Dc	BA	BB	BC	BD	BE	BF	BG
25	50	65	25	38	5	M4×6	6
31.5	60	75	30	45	6	M5×8	8

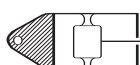


Trunnion Type Mount

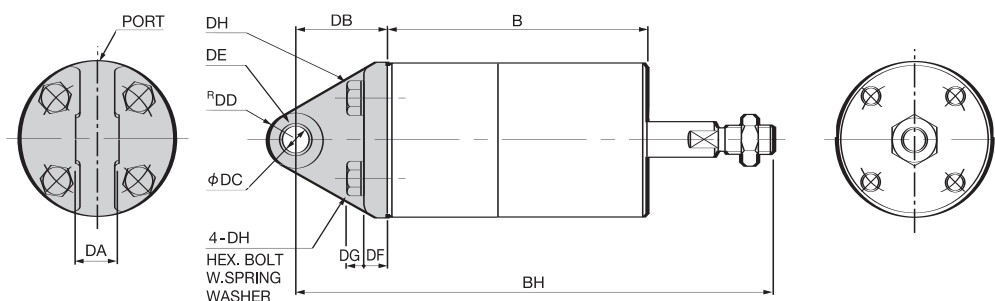


Dc-STROKE	B	CG	CH
25 - 6	71	26	56
16	86	33	63
26	101	38	68
31.5 - 14	85	44	80
24	101	60	96
35	118	67	103

Dc	CA	CB	CC	CD	CE	CF
25	46	66	10	15	46	16
31.5	54	78	12	16	53	17



Pivot Type Mount

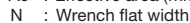


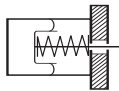
Dc-STROKE	B	BH
25 - 6	71	126
16	86	141
26	101	156
31.5 - 14	85	148
24	101	164
35	118	181

Dc	DA	DB	DC	DD	DE	DF	DG	DH
25	12	25	8	8	0812	6	3.8	M4×12
31.5	13	27	8	8	0812	7	4.8	M4×14

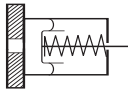
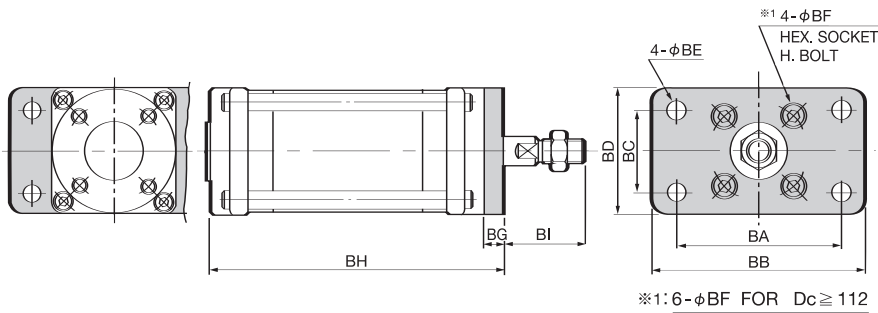
DE : Bearing Size No.

Response	Percentage
Yes, the current system is the best	60%
No, the current system is not the best	40%

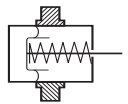
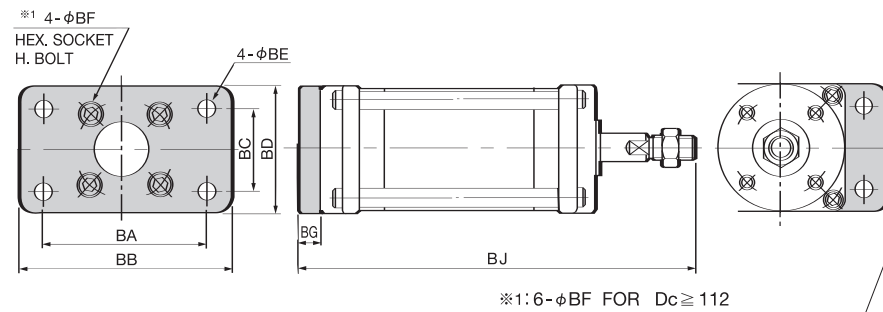




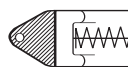
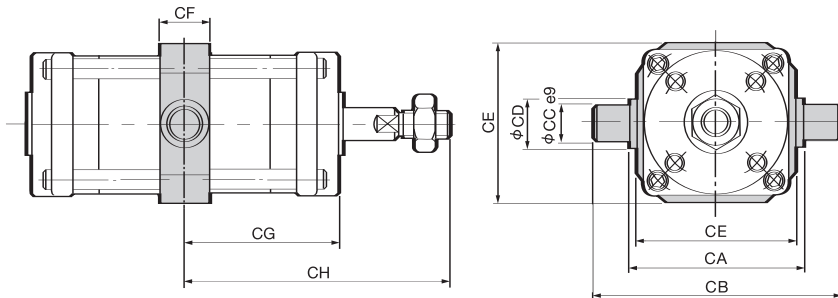
Front Flange Type Mount



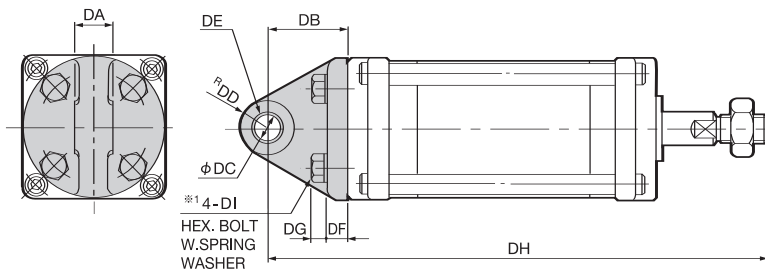
Rear Flange Type Mount



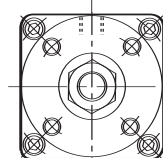
Trunnion Type Mount



Pivot Type Mount



※1: 6-DI FOR Dc ≥ 112



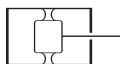
Dc-STROKE	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
40 - 8										
24	70	90	35	53	6.5	M6 × 10	9	53	33	95
36								77		119
48								96		138
50 - 16								114		156
36	80	100	40	63	7.5	M6 × 10	10	67	35	112
50								97		142
64								119		164
63 - 16								140		185
42	105	130	55	82	9.5	M8 × 12	12	78	38	128
59								117		167
78								143		193
80 - 30								172		222
62	120	150	70	100	9.5	M8 × 12	13	100	45	158
87								148		206
108								186		244
100 - 46								218		276
86	150	180	85	120	11.5	M10 × 16	14	132	51	197
115								192		257
144								237		302
112 - 42								282		347
88	166	195	100	137	14	M10 × 16	15	132	57	204
122								201		273
156								253		325
125 - 52								305		377
102	180	210	115	150	14	M10 × 16	16	148	60	224
140								223		299
122								281		357
162								338		414
204								389		473

Dc-STROKE	CA	CB	CC	CD	CE	CF	CG	CH
40 - 8								
24	64	92	14	18	60	18	34	76
36							43.5	85.5
48							52.5	94.5
50 - 16							28.5	73.5
36	74	106	16	20	70	20	43.5	88.5
50							54.5	99.5
64							65	110
63 - 16							33	83
42	94	134	20	25	88	25	52.5	102.5
59							65.5	115.5
78							80	130
80 - 30							43.5	101.5
62	114	168	25	30	108	30	67.5	125.5
87							86.5	144.5
108							102.5	160.5
100 - 46							59	124
86	134	194	30	35	128	35	89	154
115							111.5	176.5
144							134	199
112 - 42							58.5	130.5
88	156	216	30	35	150	35	93	165
122							119	191
156							145	217
125 - 52							66	142
102	170	234	32	38	164	38	103.5	179.5
140							132.5	208.5
122							161	237
162							77	161
204	190	260	35	42	184	42	122	206
							153	237
							185	269

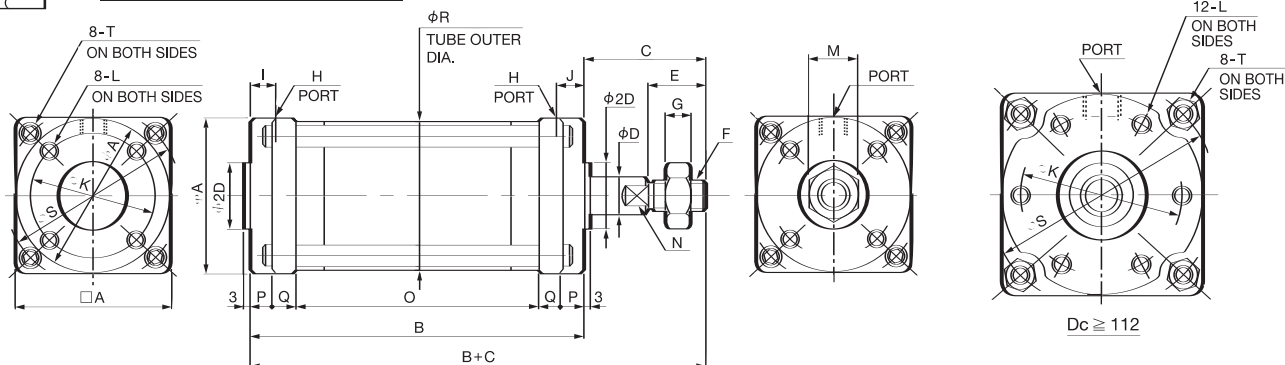
Dc-STROKE	DA	DB	DC	DD	DE	DF	DG	DH	DI
40 - 8									
24	15	30	10	14	1015	8	5.5	116	M6 × 18
36								140	
48								159	
50 - 16								177	
36	15	33	10	14	1015	9	5.5	135	M6 × 18
50								165	
64								187	
63 - 16								208	
42	20	38	12	15	1220	10	7.5	154	M8 × 22
59								193	
78								219	
80 - 30								248	
62	20	44	15	16.5	1520	12	7.5	189	M8 × 22
87								237	
108								275	
100 - 46								307	
86	25	50	18	18	1825	15	9.5	233	M10 × 30
115								293	
144								338	
112 - 42								383	
88	28	54	18	20	1810	16	9.5	243	M10 × 30
122					2pcs.			312	
156								364	
125 - 52								416	
102	30	59	20	23	2010	17	9.5	267	M10 × 30
140					2pcs.			342	
122								400	
162								457	
204	34	64	22	25	2210	19	11	302	M12 × 35
					2pcs.			392	
								454	
								518	

DE : Bearing Size No.

Model FCD-40-8 to 140-204



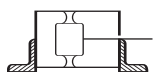
Outline Dimensions



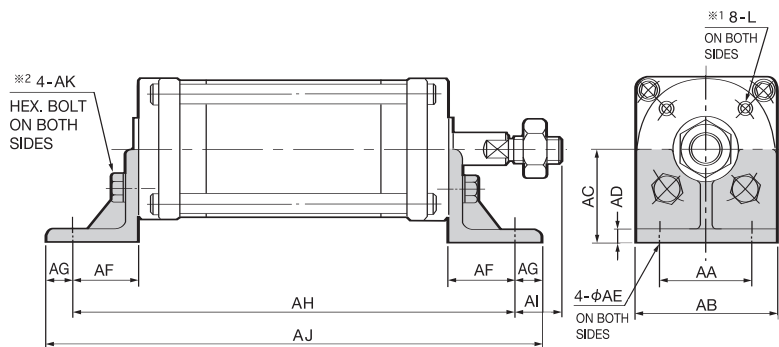
OUTLINE DIMENSIONS

Ae : Effective area (mm²)
N : Wrench flat width

Dc-STROKE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ae PUSH	Ae PULL
40 - 8		54				M10 × 1.25		Rc 1/8	9	9	42	M6 DP 9	17	10	24							
24	53	78	42	12	20										48	8	7	51.5	61	M5	1100	980
36		97													67							
48		116													86							
50 - 16		67				M10 × 1.25		Rc 1/8	10	10	50	M6 DP 9	17	10	35							
36	63	97	45	12	20										65	8	8	61.5	73	M6	1770	1650
50		119													87							
64		141													109							
63 - 16		79				M12 × 1.5		Rc 1/4	12	12	63	M8 DP 12	19	13	39							
42	82	118	50	16	24										78	9	11	78.5	94	M8	2730	2530
59		145													105							
78		175													135							
80 - 30		100				M16 × 1.5		Rc 1/4	14	14	80	M8 DP 12	24	17	52							
62	100	148	58	20	32										100	10	14	97	114	M8	4540	4230
87		187													139							
108		220													172							
100 - 46		132				M20 × 1.5		Rc 1/4	14	14	98	M10 DP 15	30	22	78							
86	120	192	65	25	40										138	11	16	117.5	136	M10	7240	6750
115		239													185							
144		284													230							
112 - 42		138				M22 × 1.5		Rc 3/8	18	18	112	M10 DP 15	32	22	76							
88	137	207	72	25	44										145	12	19	135	156	M12	8820	8330
122		260													198							
156		313													251							
125 - 52		153				M24 × 1.5		Rc 3/8	18	18	125	M10 DP 15	36	24	81							
102	150	228	76	30	48										156	16	20	149	170	M14	11100	10400
140		287													215							
178		346													274							
140 - 62		173				M27 × 1.5		Rc 3/8	18	18	140	M12 DP 18	41	30	93							
122	165	263	84	35	52										183	16	24	164	190	M14	14100	13300
162		326													246							
204		392													312							



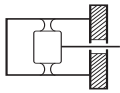
L Type Mount



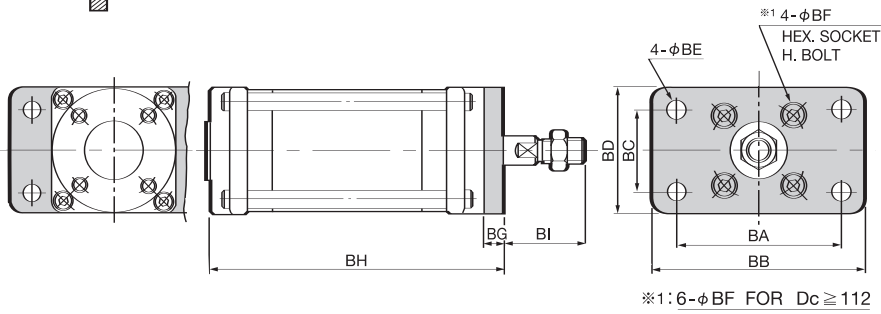
※1 : 12-L FOR Dc ≥ 112 ON BOTH SIDES

※2 : 6-AK FOR Dc ≥ 112 ON BOTH SIDES

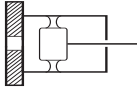
Dc-STROKE	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
40 - 8								104		124	
24	35	53	35	5	6.5	25	10	128	17	148	M6
36								147		167	× 14
48								166		186	
50 - 16								119		141	
36	40	63	40	6	7.5	26	11	149	19	171	M6
50								171		193	× 14
64								193		215	
63 - 16								141		169	
42	50	82	50	6	9.5	31	14	180	19	208	M8
59								207		235	× 20
78								237		265	
80 - 30								170		204	
62	60	100	60	8	9.5	35	17	218	23	252	M8
87								257		291	× 20
108								290		324	
100 - 46								212		252	
86	75	120	70	8	12	40	20	272	25	312	M10
115								319		359	× 25
144								364		404	
112 - 42								226		272	
88	85	137	80	8	14	44	23	295	28	341	M10
122								348		394	× 25
156								401		447	
125 - 52								245		293	
102	95	150	87	10	14	46	24	320	30	368	M10
140								379		427	× 25
178								438		486	
140 - 62								265		313	
122	100	165	95	10	16	46	24	355	38	403	M12
162								418		466	× 30
204								484		532	



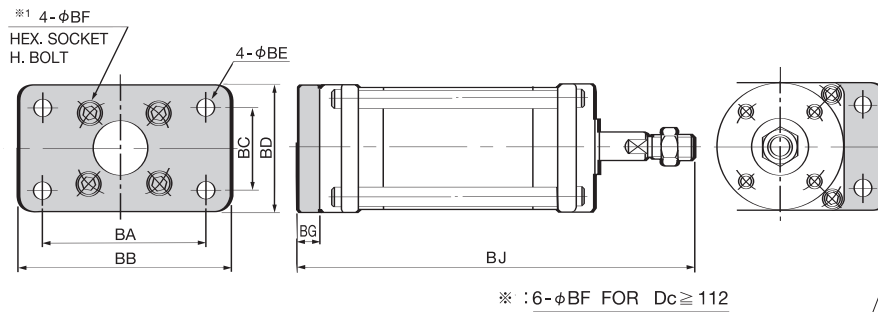
Front Flange Type Mount



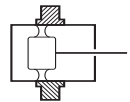
Dc-STROKE	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ
40 - 8										
24	70	90	35	53	6.5	M6	9	63	33	105
36						× 10		87		129
48								106		148
50 - 16								125		167
36	80	100	40	63	7.5	M6	10	77		122
50						× 10		107		152
64								129	35	174
63 - 16								151		196
42	105	130	55	82	9.5	M8	12	91		141
59						× 14		130	38	179
78								157		207
80 - 30								187		237
62								113		171
87	120	150	70	100	9.5	M8	13	161	45	219
108						× 14		200		258
100 - 46								233		291
86	150	180	85	120	11.5	M10	14	146		211
115						× 16		206	51	271
144								253		318
112 - 42								298		363
88	166	195	100	137	14	M10	15	153		225
122						× 16		222	57	294
156								275		347
125 - 52								328		400
102	180	210	115	150	14	M10	16	169		245
140						× 16		244	60	320
178								303		379
140 - 62								362		438
122	195	225	125	165	16	M12	19	192		276
162						× 20		282	65	366
204								345		429
								411		495



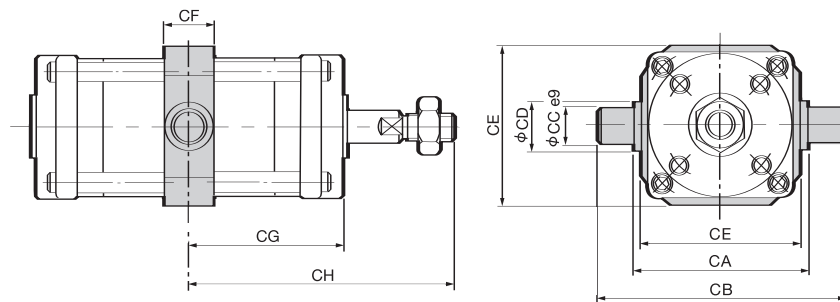
Rear Flange Type Mount



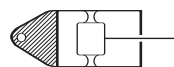
Dc-STROKE	CA	CB	CC	CD	CE	CF	CG	CH
40 - 8								
24	64	92	14	18	60	18	27	69
36							39	81
48							48.5	90.5
50 - 16							58	100
36	74	106	16	20	70	20	33.5	78.5
50							48.5	93.5
64							59.5	104.5
63 - 16							70.5	115.5
42	94	134	20	25	88	25	39.5	89.5
59							59	109
78							72.5	122.5
80 - 30							87.5	137.5
62	114	168	25	30	108	30	50	108
87							74	132
108							93.5	151.5
100 - 46							110	168
86	134	194	30	35	128	35	66	131
115							96	161
144							119.5	184.5
112 - 42							142	207
88	156	216	30	35	150	35	69	141
122							103.5	175.5
156							130	202
125 - 52							156.5	228.5
102	170	234	32	38	164	38	76.5	152.5
140							114	190
178							143.5	219.5
140 - 62							173	249
122	190	260	35	42	184	42	86.5	170.5
162							131.5	215.5
204							163	247
							196	280



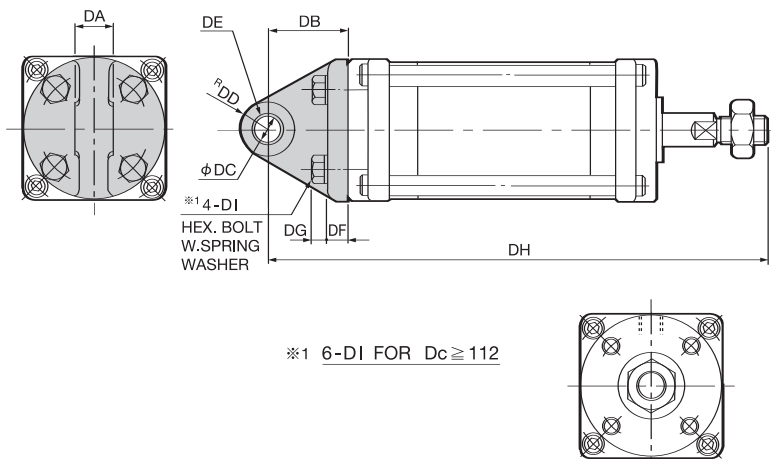
Trunnion Type Mount



Dc-STROKE	DA	DB	DC	DD	DE	DF	DG	DH	DI
40 - 8									
24	15	30	10	14	1015	8	5.5	126	M6
36								150	× 18
48								169	
50 - 16								188	
36	15	33	10	14	1015	9	5.5	145	M6
50								175	× 18
64								197	
63 - 16								219	
42	20	38	12	15	1220	10	7.5	167	M8
59								206	× 22
78								233	
80 - 30								263	
62	20	44	15	16.5	1520	12	7.5	202	M8
87								250	× 22
108								289	
100 - 46								322	
86	25	50	18	18	1825	15	9.5	247	M10
115								307	× 30
144								354	
112 - 42								399	
88	28	54	18	20	1810	16	9.5	264	M10
122					2pcs.			333	× 30
156								386	
125 - 52								439	
102	30	59	20	23	2010	17	9.5	288	M10
140					2pcs.			363	× 30
178								422	
140 - 62								481	
122	34	64	22	25	2210	19	11	321	M12
162					2pcs.			411	× 35
204								474	
								570	

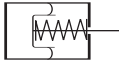


Pivot Type Mount

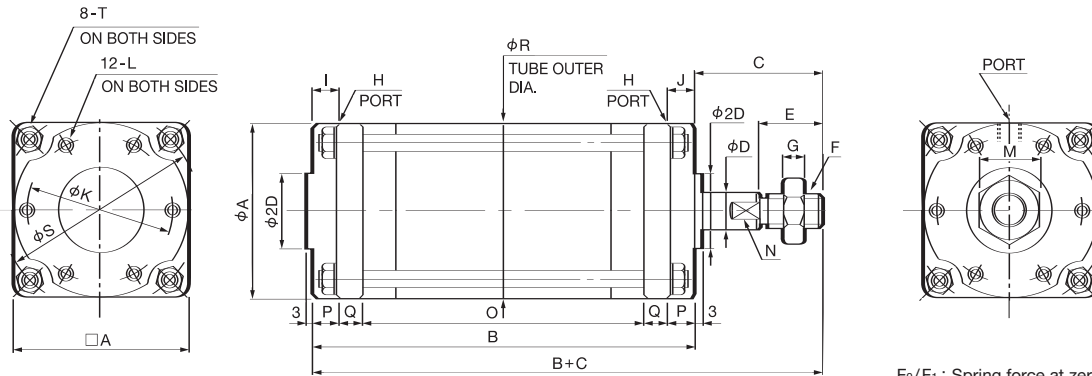


DE : Bearing Size No.

Model FCS-160-82 to 200-320



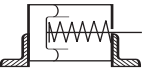
Outline Dimensions



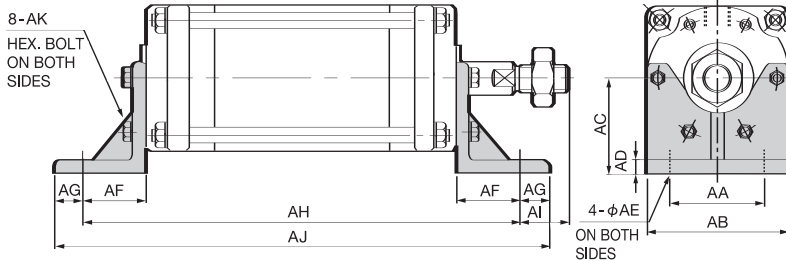
OUTLINE DIMENSIONS

F₀/F₁ : Spring force at zero/full stroke (N)
Ae : Effective area (mm²)
N : Wrench flat width

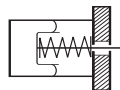
DC-STROKE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ae	SPRING FORCE	
																						F ₀	F ₁
160 – 82	185	184	94	35	60	M30 × 1.5	18	Rc 1/2	22	—	160	M12 DP 18	46	30	86	23	26	185	215	M16	18600	158.8	356.7
		142													274								
		192													351								
		240													425								
180 – 96	205	213	104	40	64	M33 × 1.5	20	Rc 1/2	22	—	176	M14 DP 21	50	36	101	26	30	205	238	M18	23800	205.8	490
		168													321								
		226													410								
		280													493								
200 – 112	225	244	120	45	72	M36 × 1.5	21	Rc 3/4	24	—	194	M16 DP 24	55	41	118	28	35	225	262	M20	29600	254.8	656.6
		192													364								
		256													462								
		320													560								



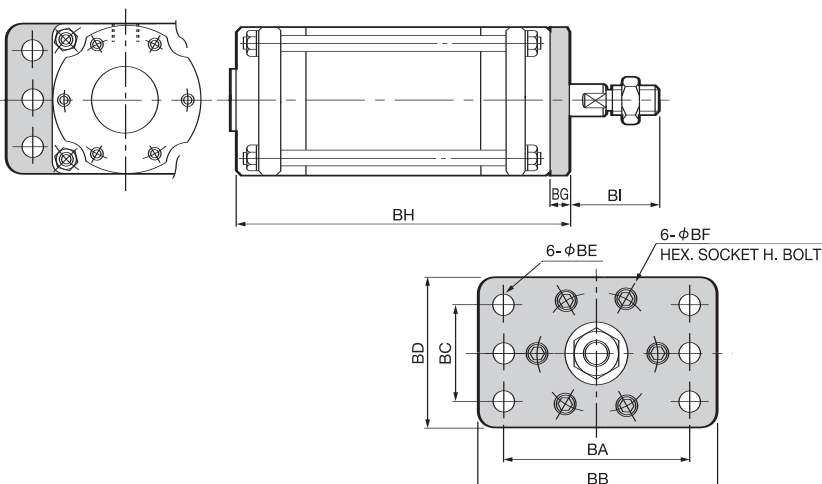
L Type Mount



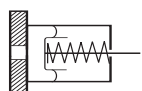
Dc-STROKE	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
160 - 82											
142	115	185	105	13	18	49	26	282	334	M12	
192								372	424	× 30	
240								449	501		
								523	575		
180 - 96											
168	130	205	115	14	18	52	28	317	373	M14	
226								425	481	× 35	
280								514	570		
								597	653		
200 - 112											
192	140	225	125	14	18	52	28	348	404	M16	
256								468	524	× 35	
320								566	622		
								664	720		



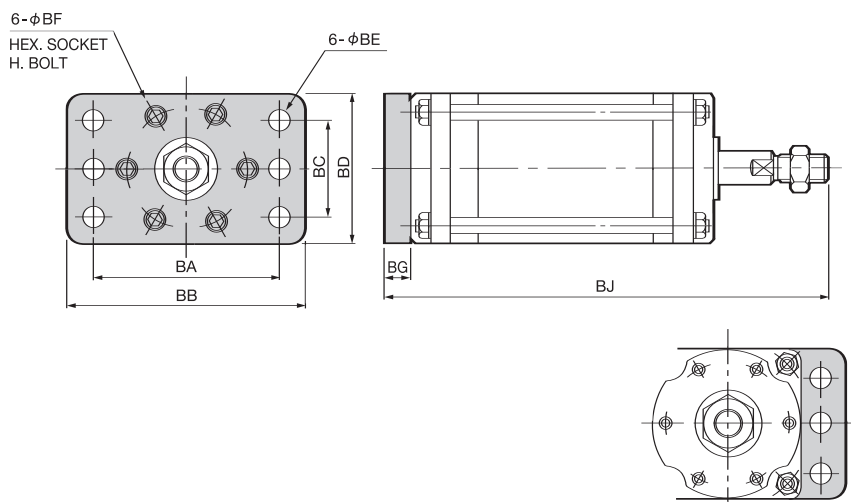
Front Flange Type Mount



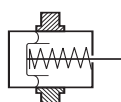
Dc-STROKE	BA	BB	BC	BD	BE	BF	BG	BH	BI
160 - 82									
142	220	260	140	185	16	M12	19	203	75
192						× 20		293	
240								370	
								444	
180 - 96									
168	250	300	160	205	18	M14	22	235	82
226						× 25		343	
280								432	
								515	
200 - 112									
192	275	320	180	225	18	M16	25	269	95
256						× 25		389	
320								487	
								585	



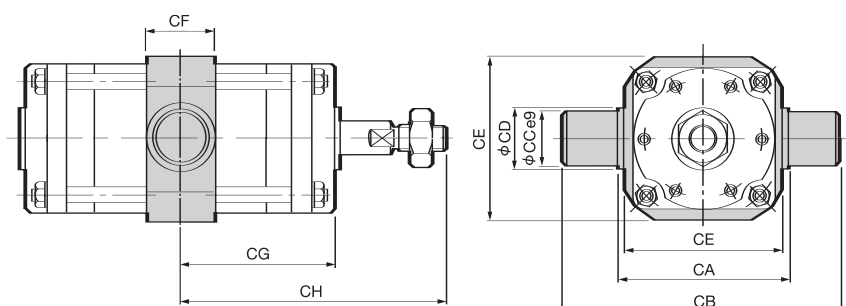
Rear Flange Type Mount



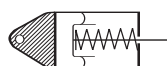
Dc-STROKE	BA	BB	BC	BD	BE	BF	BG	BJ
160 - 82								297
142	220	260	140	185	16	M12 × 20	19	387
192								464
240								538
180 - 96								339
168	250	300	160	205	18	M14 × 25	22	447
226								536
280								619
200 - 112								389
192	275	320	180	225	18	M16 × 25	25	509
256								607
320								705



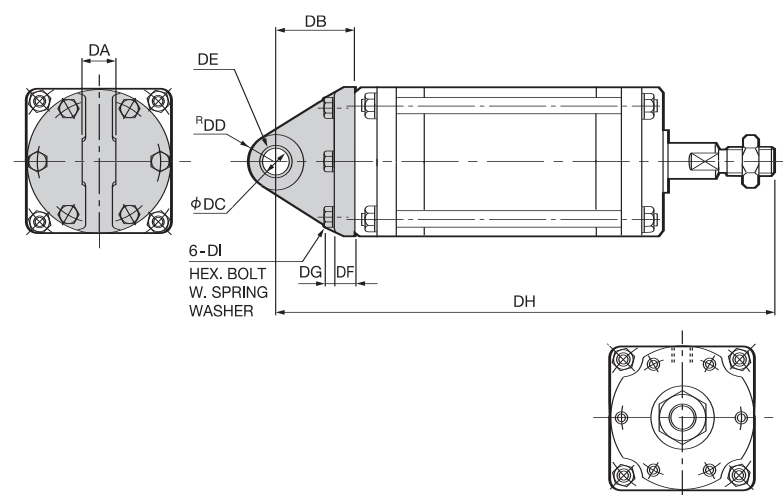
Trunnion Type Mount



Dc-STROKE	CA	CB	CC	CD	CE	CF	CG	CH
160 - 82							92	186
142	215	295	40	60	205	60	137	231
192							175.5	269.5
240							212.5	306.5
180 - 96							106.5	210.5
168	235	325	45	63	225	63	160.5	264.5
226							205	309
280							246.5	350.5
200 - 112							122	242
192	260	350	45	65	250	65	182	302
256							231	351
320							280	400



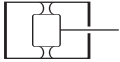
Pivot Type Mount



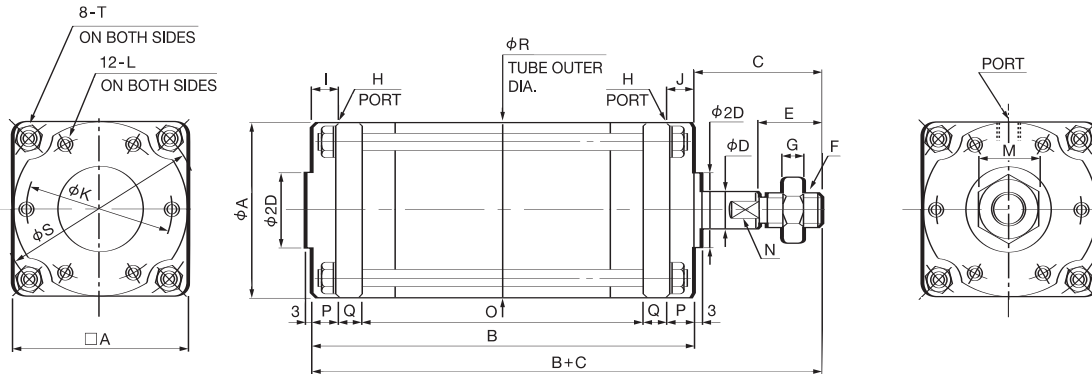
Dc-STROKE	DA	DB	DC	DD	DE	DF	DG	DH	DI
160 - 82								348	M12 × 40
142	38	70	25	28	2510 2pcs.	21	11	438	
192								515	
240								589	
180 - 96								394	M14 × 45
168	42	77	28	32	2812 2pcs.	24	12.5	502	
226								591	
280								674	
200 - 112								449	M16 × 50
192	45	85	30	34	3012 2pcs.	26	14	569	
256								667	
320								765	

DE : Bearing Size No.

Model FCD-160-82 to 200-320



Outline Dimensions

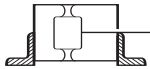


OUTLINE DIMENSIONS

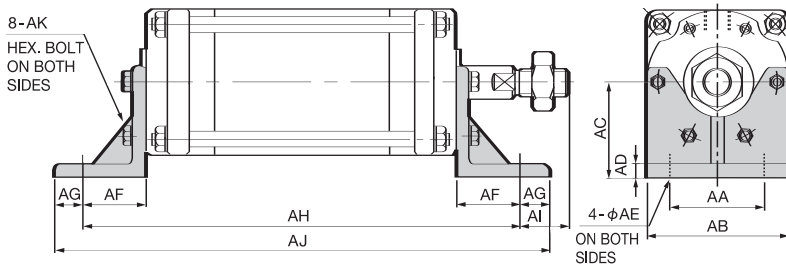
Ae : Effective area (mm²)

N : Wrench flat width

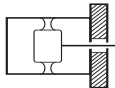
Dc-STROKE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	Ae	
																					PUSH	PULL
160 - 82		230				M30		Rc 1/2	22	22	160	M12	46	30	132			185	215	M16	18600	17600
142	185	320	94	35	60	× 1.5	18					DP 18			222	23	26					
192		399													301							
240		475													377							
180 - 96		260				M33		Rc 1/2	22	22	176	M14	50	36	148			205	238	M18	23800	22500
168	205	368	104	40	64	× 1.5	20					DP 21			256	26	30					
226		459													347							
280		544													432							
200 - 112		292				M36		Rc 3/4	24	24	194	M16	55	41	166			225	262	M20	29600	28000
192	225	412	120	45	72	× 1.5	21					DP 24			286	28	35					
256		512													386							
320		612													486							



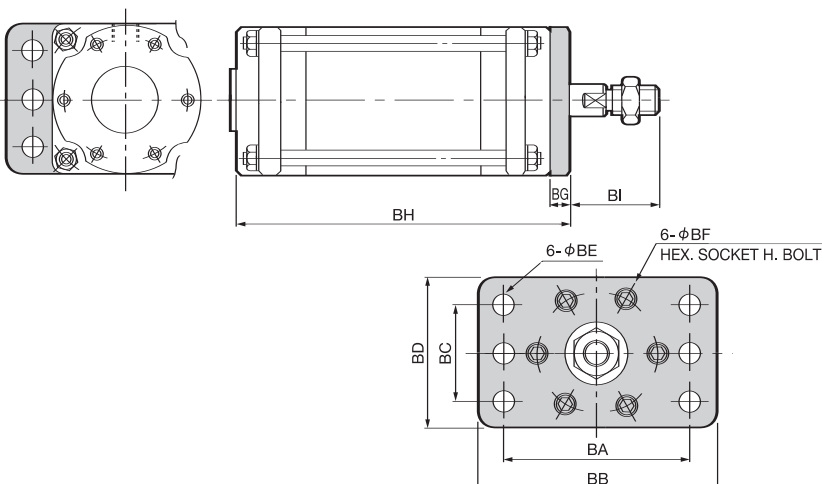
L Type Mount



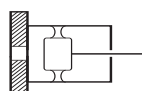
Dc-STROKE	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
160 - 82								328		380	M12
142	115	185	105	13	18	49	26	418	45	470	× 30
192								497		549	
240								573		625	
180 - 96								364		420	M14
168	130	205	115	14	18	52	28	472	52	528	× 35
226								563		619	
280								648		704	
200 - 112								396		452	M16
192	140	225	125	14	18	52	28	516	68	572	× 35
256								616		672	
320								716		772	



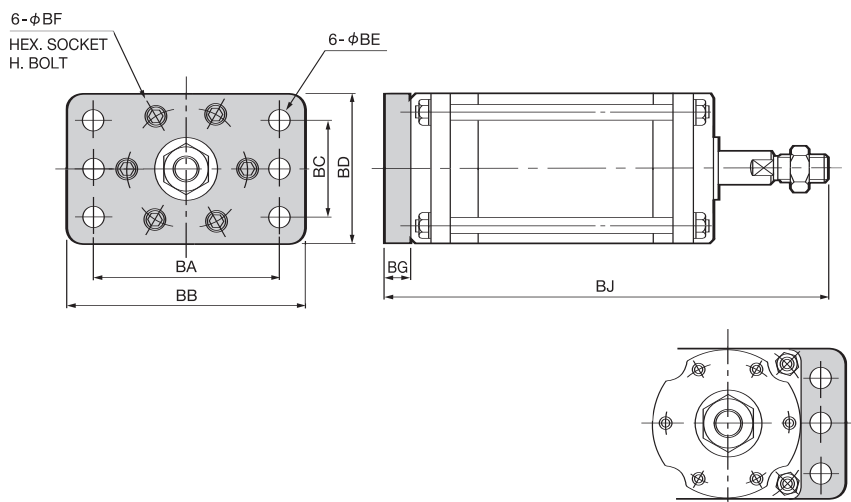
Front Flange Type Mount



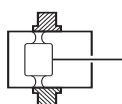
Dc-STROKE	BA	BB	BC	BD	BE	BF	BG	BH	BI
160 - 82								249	
142	220	260	140	185	16	M12	19	339	75
192						× 20		418	
240								494	
180 - 96								282	
168	250	300	160	205	18	M14	22	390	82
226						× 25		481	
280								566	
200 - 112								317	
192	275	320	180	225	18	M16	25	437	95
256						× 25		537	
320								637	



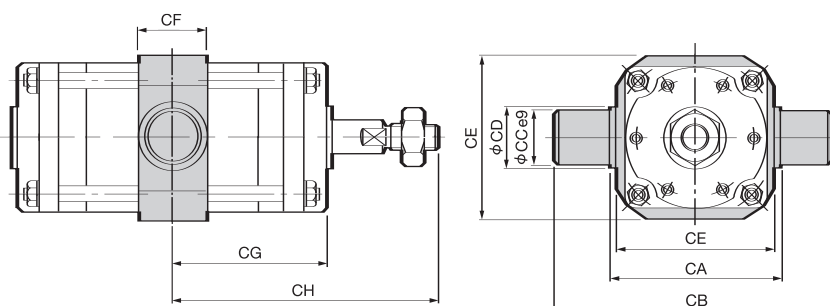
Rear Flange Type Mount



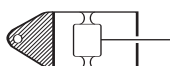
Dc-STROKE	BA	BB	BC	BD	BE	BF	BG	BJ
160 - 82								343
142	220	260	140	185	16	M12 × 20	19	433
192								512
240								588
180 - 96								386
168	250	300	160	205	18	M14 × 25	22	494
226								585
280								670
200 - 112								437
192	275	320	180	225	18	M16 × 25	25	557
256								657
320								757



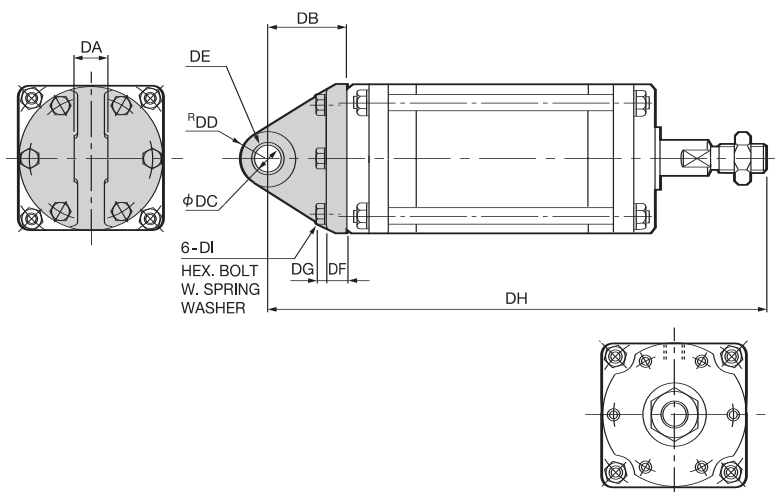
Trunnion Type Mount



Dc-STROKE	CA	CB	CC	CD	CE	CF	CG	CH
160 - 82							115	209
142	215	295	40	60	205	60	160	254
192							199.5	293.5
240							237.5	331.5
180 - 96							130	234
168	235	325	45	63	225	63	184	288
226							229.5	333.5
280							272	376
200 - 112							146	266
192	260	350	45	65	250	65	206	326
256							256	376
320							306	426



Pivot Type Mount



Dc-STROKE	DA	DB	DC	DD	DE	DF	DG	DH	DI
160 - 82								394	M12 × 40
142	38	70	25	28	2510	21	11	484	
192					2pcs.			563	
240								639	
180 - 96								441	M14 × 45
168	42	77	28	32	2812	24	12.5	549	
226					2pcs.			640	
280								725	
200 - 112								497	M16 × 50
192	45	85	30	34	3012	26	14	617	
256					2pcs.			717	
320								817	

DE : Bearing Size No.

[illegible]

[illegible]

Fujikura's Pneumatic Control Products Line

■ General Guide		Cat. No. KS-572E
■ Fujikura BF Cylinder	Series FC	Cat. No. KS-570E
■ Super Precision Air Regulators	Series RS	} Cat. No. KS-128E
■ Super Precision Air Relays	Series RR	
■ Precision Air Regulators	Series RP	Cat. No. KS-129E
■ Precision Vacuum Pressure Regulators	Series RV	Cat. No. KS-131E

[Please request respective catalog for detailed contents of each product.]

Note: Specifications subject to change without notice for improvements and modifications.



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