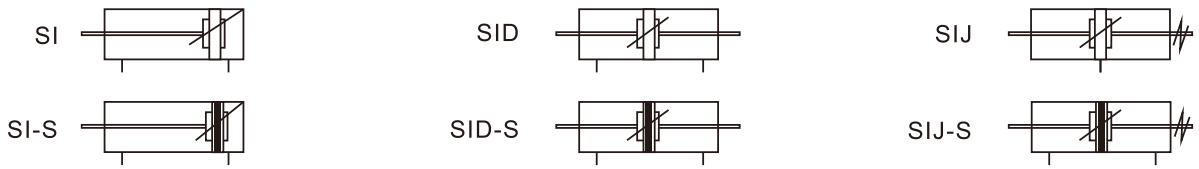
SI Series ISO6431 Standard Cylinder





Ordering Code SI Series ISO6431 Standard Cylinder

S I 5 0 X 5 0 - S - 2 0 - L B

Series code
SI: Standard cylinder
SID: Double-shaft type
SIJ: Double-shaft adjustable stroke type

Bore

Stroke

Magnet
Nil: Without magnet
S: With magnet

Adjustable stroke
Nil: Standard
10: 10mm
20: 20mm
30: 30mm
40: 40mm
50: 50mm
75: 75mm
100: 100mm

Mounting type
Nil: Standard cylinder
LB: Leg mounting
FA: Front plate mounting
FB: Rear plate mounting
CA: Single trunnion mounting
CB: Double trunnion mounting
CR: Clevis foot
TC: Centre trunnion mounting

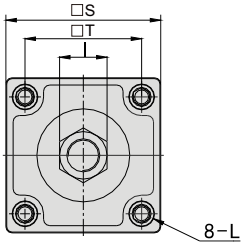
Note: Adjustable stroke type only available as a double-shaft cylinder.

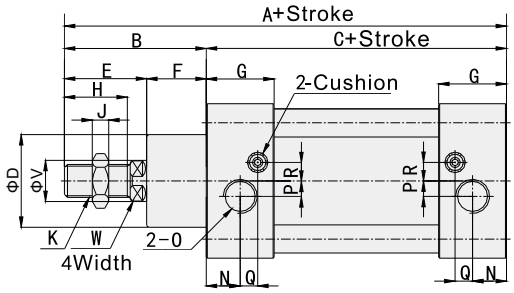
Specifications

Bore (mm)		32	40	50	63	80	100	125	160	200
Acting type		Double acting								
Working medium		Clean air (40μm filteration)								
Mounting type	SI Series	Basic type FA FB CA CB LB TC TC-M1 TC-M2								
	SID Series	Basic type FA LB TC TC-M1 TC-M2								
	SIJ Series	Basic type FA LB TC TC-M1 TC-M2								
Working pressure range		0.1 to 1.0MPa								
Max. working pressure		1.5MPa								
Working temperature		5 to 70℃								
Speed range		SI Series: 50 to 800mm/s Other Series: 30 to 800mm/s								
Cushion type		Adjustable cushion								
Cushion stroke		27mm		30mm		36mm		40mm	50mm	
Port size		G1/8	G1/4		G3/8		G1/2			G3/4

Main Dimensions

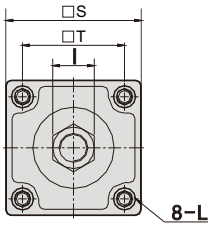
Basic type

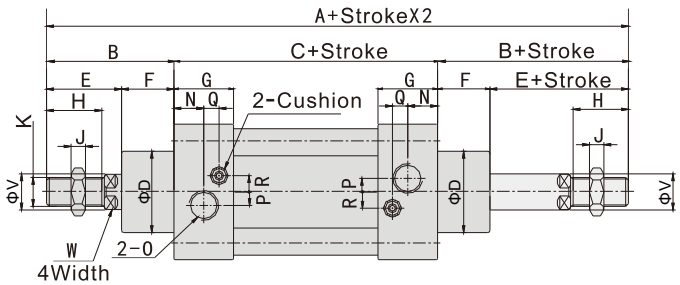




Bore \ Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32	142	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40	159	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13
50	175	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	9	65	46.5	20	17
63	190	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17
80	214	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22
100	229	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22
125	279	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27
160	332	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G1/2	15	12	20	180	140	40	36
200	347	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36

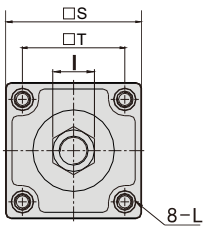
Double shaft type

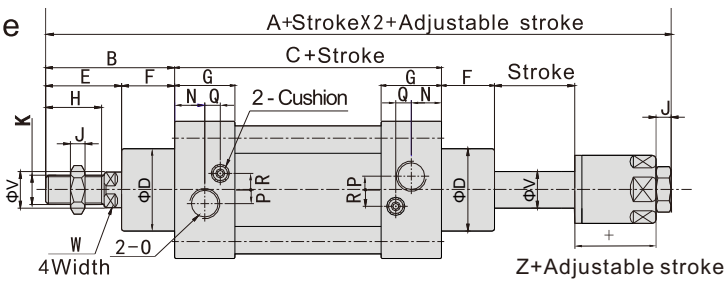




Bore \ Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W
32	190	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	7	47	32.5	12	10
40	213	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13
50	244	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	9	65	46.5	20	17
63	259	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17
80	300	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22
100	320	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22
125	398	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27
160	484	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G1/2	15	12	20	180	140	40	36
200	514	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36

Double shaft adjustable stroke type





Bore \ Sign	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	V	W	Z
32	187	48	94	30	32	16	28	22	17	6	M10X1.25	M6	13.5	G1/8	4	7.5	6.5	47	32.5	12	10	21
40	207	54	105	35	36	18	29	24	19	7	M12X1.25	M6	16	G1/4	6	9.5	9	53	38	16	13	21
50	233	69	106	40	44	25	31	32	24	8	M16X1.5	M8	18.5	G1/4	8.5	6.7	7.5	65	46.5	20	17	23
63	250	69	121	45	44	25	32	32	24	8	M16X1.5	M8	19	G3/8	6	7.7	9	75	56.5	20	17	23
80	286	86	128	45	56	30	35	40	30	10	M20X1.5	M10	19	G3/8	10	5	13.5	95	72	25	22	29
100	308	91	138	55	59	32	36	40	30	10	M20X1.5	M10	18	G1/2	12.5	10	14.5	115	89	25	22	29
125	373	119	160	60	74	45	46	54	41	13.5	M27X2	M12	23	G1/2	14	12	14	140	110	32	27	35
160	448	152	180	65	94	58	50	72	55	18	M36X2	M16	25	G1/2	15	12	20	180	140	40	36	40
200	472	167	180	75	107	60	50	72	55	18	M36X2	M16	25	G3/4	15	12	20	220	175	40	36	40

DNC/SI ISO6431 Standard Cylinder Brackets

Ordering Code

SI - 50 - FA

- SI: ISO 6431 standard
- 50: Bore
- FA: Brackets type

LB: Leg mounting
FA: Front plate mounting
FB: Rear plate mounting
CA: Single trunnion mounting
CB: Double trunnion mounting
TC: Centre trunnion mounting
Y: Y fitting
I: I fitting
F: Floating fitting
B: Bearing fitting

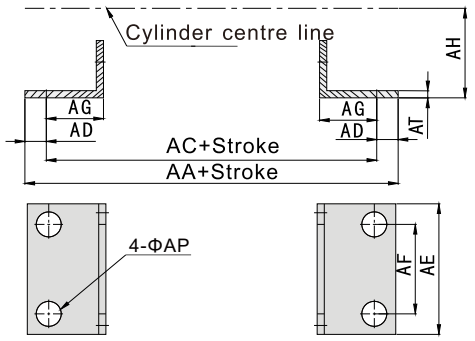
Note: ISO standard accessories, only suitable for DNC, SI ect ISO6431 series standard cylinder.

Accessories

Brackets \ Cylinder		SI	SID	SIJ
Mounting type	LB	●	●	●
	FA	●	●	●
	FB	●	X	X
	CA	●	X	X
	CB	●	X	X
	CR	●	X	X
	TC	●	●	●
	TC-M1	●	●	●
	TC-M2	●	●	●
Rod end fitting type	I	●	●	●
	Y	●	●	●
	F	●	●	●
	B	●	●	●

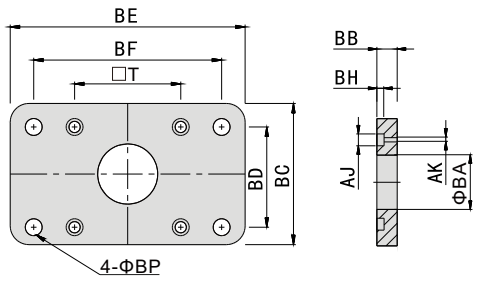
Main Dimensions

LB



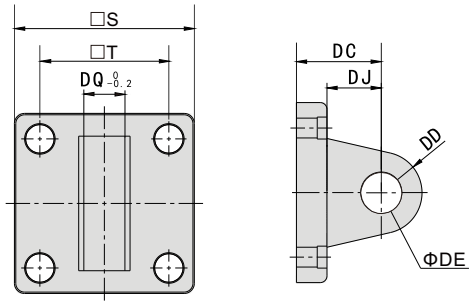
Sign \ Bore	32	40	50	63	80	100	125	160	200
AA	158	179	190	209	248	258	290	340	380
AC	142	161	170	185	210	220	250	300	320
AD	8	9	10	12	19	19	20	20	30
AE	48	53	63	73	98	115	140	180	220
AF	32	36	45	50	63	75	90	115	135
AG	24	28	32	32	41	41	45	60	70
AH	32	36	45	50	63	71	90	115	135
ΦAP	7	9	9	9	12	14	16	18	22
AT	4	4	4	4	5	5	8	8	9

FA/FB



Sign \ Bore	32	40	50	63	80	100	125	160	200
AJ	10.5	10.5	14	14	17	17	19	25	25
AK	7	7	9	9	11	11	13	17	17
ΦBA	30.3	35.3	40.3	45.3	45.3	55.3	60.3	65.3	75.3
BB	10	10	12	12	16	16	20	20	25
BC	50	55	65	75	100	120	140	180	220
BD	32	36	45	50	63	75	90	115	135
BE	80	90	110	125	154	186	224	280	320
BF	64	72	90	100	126	150	180	230	270
BH	6.5	6.5	6.5	8.5	10.5	10.5	8	8	12
ΦBP	7	9	9	9	12	14	16	18	22
T	32.5	38	46.5	56.5	72	89	110	140	175

CA

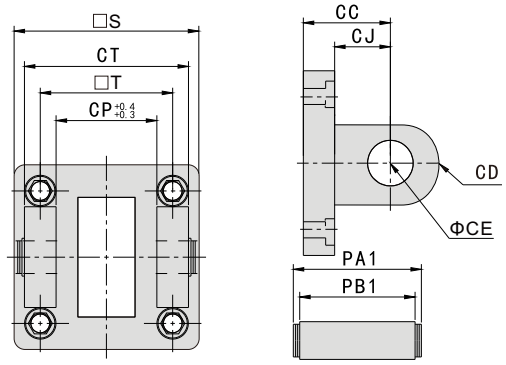


Sign \ Bore	32	40	50	63	80	100	125	160	200
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175
DC	22	25	27	32	36	41	50	55	60
DD	9	12	12	15	15	20	25	30	30
ΦDE	10	12	12	16	16	20	25	30	30
DJ	13	16	17	22	22	27	33	35.5	37
DQ	25.8	27.8	31.7	39.7	49.7	59.7	69.7	89.7	89.7

DNC/SI ISO6431 Standard Cylinder Brackets

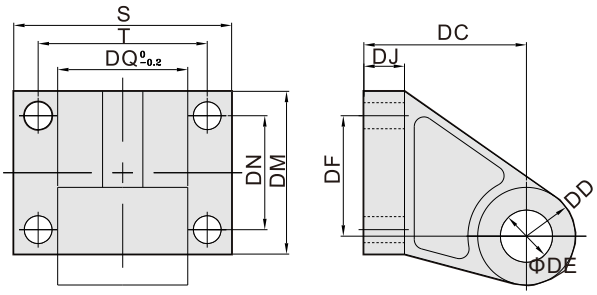
Main Dimensions

CB



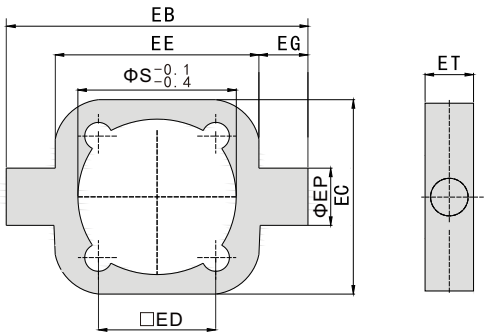
Sign \ Bore	32	40	50	63	80	100	125	160	200
CC	22	25	27	32	36	41	50	55	60
CD	9	12	12	15	15	20	25	30	30
ΦCE	10	12	12	16	16	20	25	30	30
CJ	13	16	17	22	22	27	31	35.5	36
CP	26	28	32	40	50	60	70	90	90
CT	45	52	60	70	90	110	130	170	170
PA1	51	59	67	77	97	119	139	181	181
PB1	45.5	52.5	60.5	70.5	90.5	110.5	130.5	170.5	170.5
S	47	53	65	75	95	115	140	180	220
T	32.5	38	46.5	56.5	72	89	110	140	175

CR



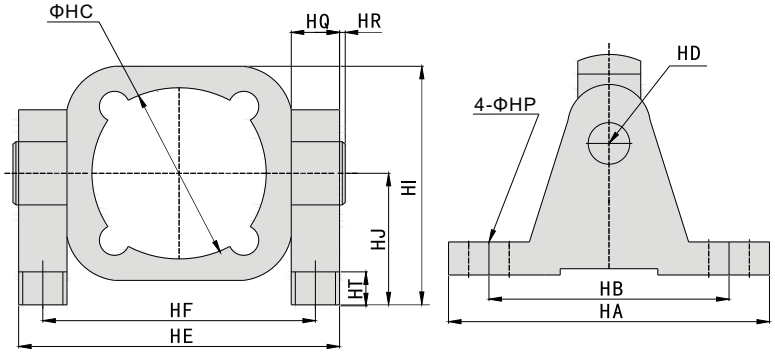
Bore \ Sign	S	T	DC	DD	ΦDE	DF	DJ	DQ	DM	DN
32	51	38	32	10	10	21	8	26	31	18
40	54	41	36	11	12	24	9	28	35	22
50	65	50	57	13	12	33	12	31.5	45	30
63	67	52	50	15	16	37	12.5	40	50	35
80	86	66	63	15	16	41.5	14	50	60	40
100	96	76.5	71.5	18.5	20	55	15	60	70	51

TC



Sign \ Bore	32	40	50	63	80	100	125	160	200
EB	100	113	125	140	160	182	210	264	314
EC	50	58	70	80	100	126	154	196	240
ED	32.5	38	46.5	56.5	72	89	110	140	175
EE	50	63	75	90	110	132	160	200	250
EG	25	25	25	25	25	25	25	32	32
ΦEP	12	16	16	20	20	25	30	32	32
ET	20	24	28	28	28	28	36	40	40
ΦS	36	45	55	68	86	106	132	170	40

TC-M

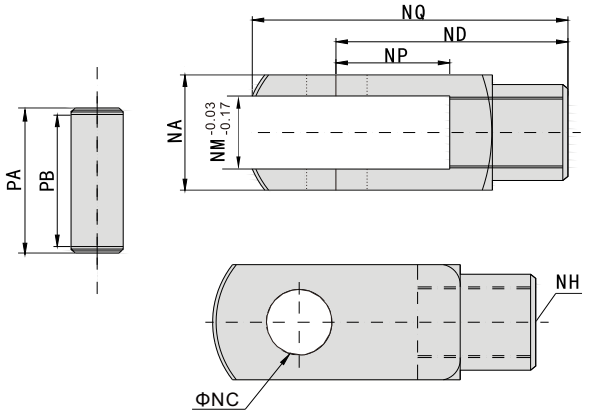


Sign \ Bore	32	40	50	63	80	100
HA	110	110	110	120	120	120
HB	80	80	80	80	80	80
ΦHC	36	45	55	58	86	106
HD	22	22	22	22	22	22
HE	96	109	121	136	156	178
HF	73	86	98	113	133	155
HI	68.5	76.5	82	86	113	130
HJ	43.5	47.5	47	46	63	67
HQ	23	23	23	23	23	23
ΦHR	2	2	2	2	2	2
HT	12	12	12	12	14	14
HP	12	12	12	12	14	14

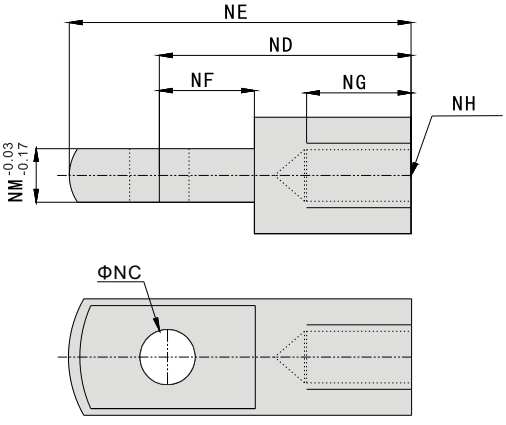
DNC/SI ISO6431 Standard Cylinder Brackets

Main Dimensions

Y Fitting

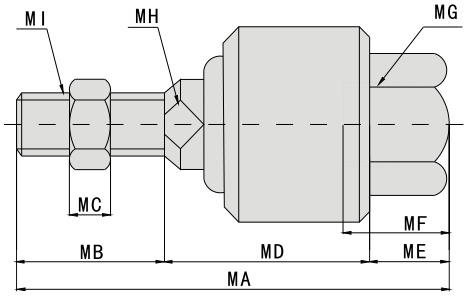


I Fitting



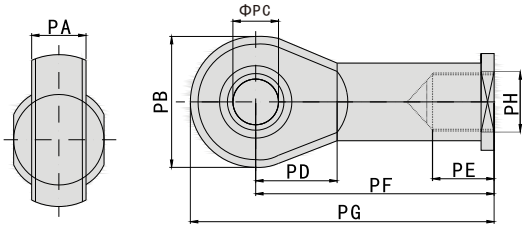
Bore \ Sign	NA	ΦNC	ND	NE	NG	NF	NH	NM	NP	NQ	PA	PB
32	19	10	40	52	20	15	M10X1.25	10	20	52	26.2	20
40	25.4	12	48	67	20	24	M12X1.25	12	24	62	32.8	26.5
50	32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
63	32	16	64	89	23	32	M16X1.5	16	32	83	39.3	33
80	44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
100	44.4	20	80	112	30	40	M20X1.5	20	40	105	53.3	45
125	55	30	110	155	56	50	M27X2.0	30	54	148	64	55.6
160	70	35	144	201	72	50	M36X2.0	35	72	191	80	70.6
200	70	35	144	201	72	55	M36X2.0	35	72	191	80	70.6

Floating Fitting



Bore \ Sign	MA	MB	MC	MD	ME	MF	MG	MH	MI
32	73	20	6	45	8	26	M10X1.25	12	M10X1.25
40	77	24	7	46	7	26	M12X1.25	12	M12X1.25
50	106	32	8	62	12	34	M16X1.5	19	M16X1.5
63	106	32	8	62	12	34	M16X1.5	19	M16X1.5
80	122	40	10	68	14	42	M20X1.5	19	M20X1.5
100	122	40	10	68	14	42	M20X1.5	19	M20X1.5
125	147	54	13.5	77	16	40	M27X2.0	24	M27X2.0
160	251	72	18	161	18	78	M36X2.0	36	M36X2.0
200	251	72	18	161	18	78	M36X2.0	36	M36X2.0

B Fitting



Bore \ Sign	PA	PB	ΦPC	PD	PE	PF	PG	PH
32	14	28	10	15	20	43	57	M10X1.25
40	16	32	12	17	22	50	66	M12X1.25
50	21	42	16	22	28	64	85	M16X1.5
63	21	42	16	22	28	64	85	M16X1.5
80	25	50	20	26	33	77	102	M20X1.5
100	25	50	20	26	33	77	102	M20X1.5
125	37	70	30	36	51	110	145	M27X2.0
160	43	80	35	41	56	125	165	M36X2.0
200	43	80	35	41	56	125	165	M36X2.0