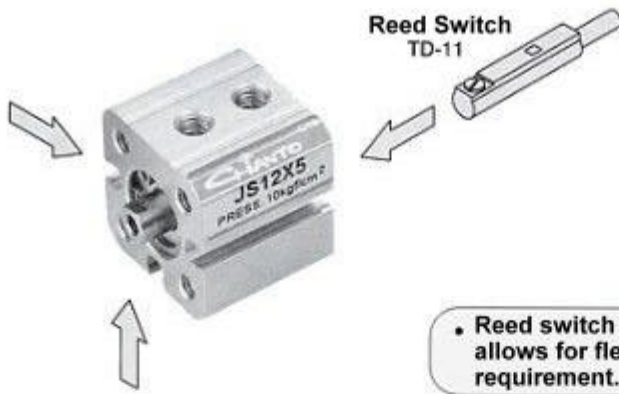


- $\varnothing 12, \varnothing 16$



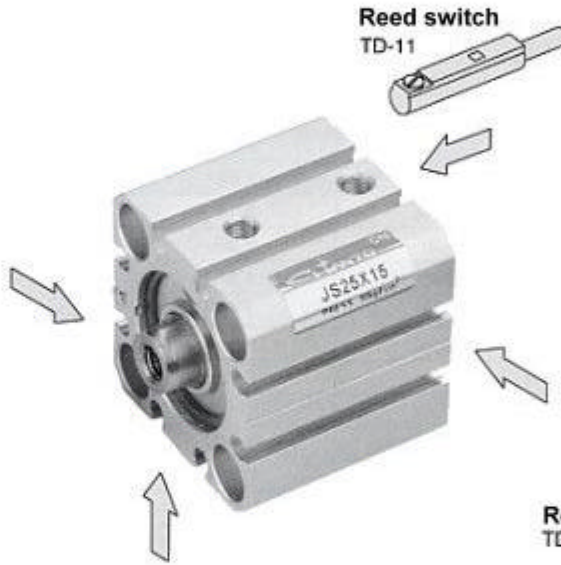
• The reed switch will not protrude from reed switch mounting groove.

• Reed switch mounting allows for flexible designing requirement.

• 3 faces on $\varnothing 12$ & $\varnothing 16$

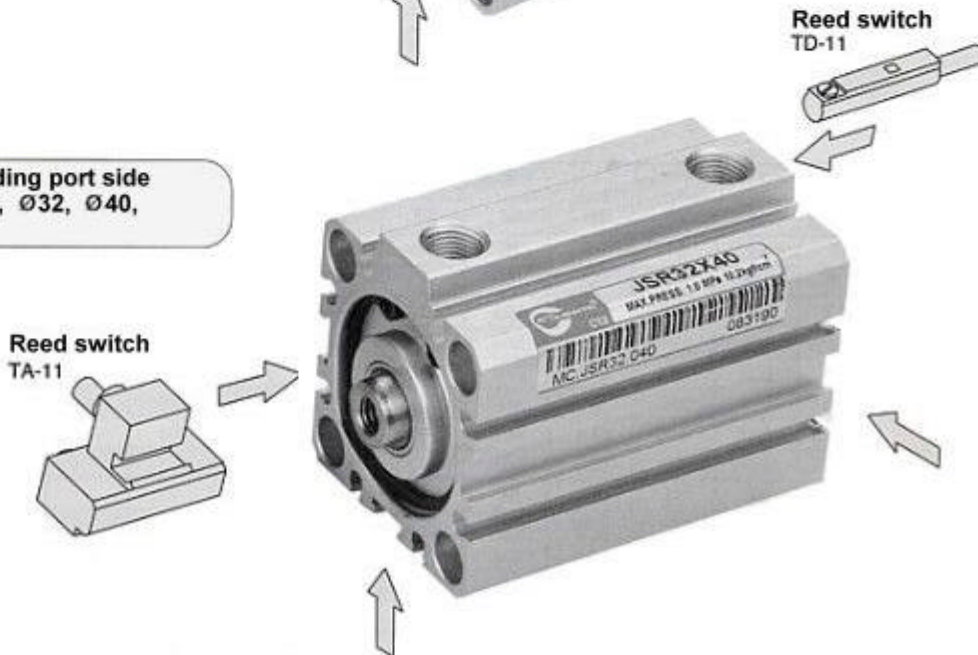
- $\varnothing 20, \varnothing 25$

• Ideal for application with small space requirement



- $\varnothing 32 \sim \varnothing 63$

• 4 faces including port side on $\varnothing 20, \varnothing 25, \varnothing 32, \varnothing 40, \varnothing 50, \varnothing 63$

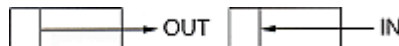


Specifications:

Action	Double acting with magnet piston
Operating fluid	Air
Max. operating pressure	(0.97 Mpa)9.9 kgf/cm ²
Proof pressure	(1.47 Mpa)15 kgf/cm ²
Temperature range	-10~70°C (with reed switch -10~60°C)
Lubrication	Not required
Rubber bumper	Only for bore size above 20
Rod end male thread	Female (standard type)
Stroke allowance	+1.0
Operating piston speed	50~500mm/s



Theoretical Force:



Unit: N (Kgf)







Bore mm	Rod diameter mm	Operation	Pressurized area (cm ²)	Operating pressure Mpa(9.9kgf/cm ²)		
				0.3(3)	0.5(5)	0.7(7)
12	6	Out	1.13	34(3.5)	57(5.8)	79(8.1)
		In	0.85	25(2.6)	42(4.3)	59(6.0)
16	8	Out	2.01	60(6.1)	101(10.3)	141(14.4)
		In	1.51	45(4.6)	75(7.7)	106(10.8)
20	10	Out	3.14	94(9.6)	157(16.0)	220(22.4)
		In	2.36	71(7.2)	118(12.0)	165(16.8)
25	12	Out	4.91	147(14.9)	245(24.9)	344(35.1)
		In	3.78	113(11.5)	189(19.3)	264(26.9)
32	16	Out	8.04	240(24.5)	400(40.8)	560(57.1)
		In	6.03	180(18.4)	300(30.6)	420(42.8)
40	16	Out	12.56	370(37.7)	620(63.2)	870(88.7)
		In	8.98	310(31.6)	520(53.0)	730(74.5)
50	20	Out	19.63	580(59.2)	980(99.9)	1370(139.7)
		In	16.49	490(49.9)	820(83.6)	1150(117.3)
63	20	Out	31.16	930(94.9)	1550(158.1)	2180(222.3)
		In	28.02	840(85.7)	1400(142.8)	1960(200.0)
80	25	Out	50.24	1500(150)	2510(251)	3520(352)
		In	45.33	1360(136)	2270(227)	3170(317)
100	30	Out	78.5	2360(236)	3930(393)	5500(550)
		In	71.52	2140(214)	3570(357)	5000(500)

Weight Table:

Unit: g

Bore size (mm)	Standard stroke (mm)												Additional weight for male thread
	5	10	15	20	25	30	35	40	45	50	75	100	
JS12	40	47	54	61	68	75	-	-	-	-	-	-	2
JS16	61	72	83	94	105	116	-	-	-	-	-	-	3
JS20	91	112	132	152	173	193	213	234	254	274	-	-	7
JS25	118	139	160	181	203	224	245	266	287	309	-	-	17
JS32	157	180	202	225	248	270	292	316	339	362	-	-	40
JS40	272	294	316	338	360	382	404	426	448	470	-	-	40
JS50	-	401	439	476	514	551	589	626	663	701	-	-	80
JS63	-	647	687	727	767	807	847	887	927	967	-	-	80
JS80	-	1443	1534	1624	1714	1804	1894	1985	2076	2166	2830	3296	160
JS100	-	2208	2314	2420	2526	2632	2738	2844	2950	3056	3801	4138	270
JSR12	50	57	64	71	78	85	-	-	-	-	-	-	2
JSR16	71	82	94	105	116	127	-	-	-	-	-	-	3
JSR20	104	123	143	163	184	204	224	245	265	286	-	-	7
JSR25	129	150	179	192	214	235	256	278	298	320	-	-	17
JSR32	259	271	283	295	318	340	363	386	409	436	-	-	40
JSR40	341	365	389	412	432	452	474	496	518	544	-	-	40
JSR50	-	497	532	566	607	647	682	716	751	806	-	-	80
JSR63	-	727	767	806	850	894	934	973	1013	1081	-	-	80
JSR80	-	1603	1697	1791	1885	1979	2074	2168	2263	2395	2860	3326	160
JSR100	-	2518	2577	2635	2744	2852	2956	3059	3163	3313	3831	4348	270

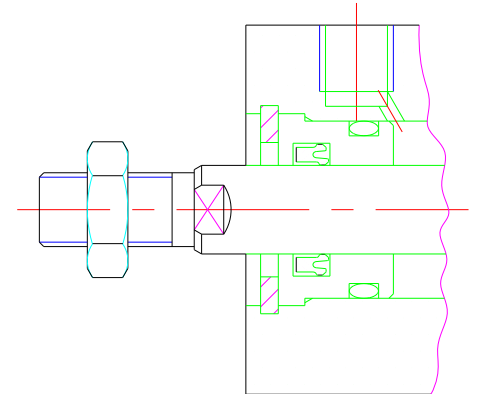
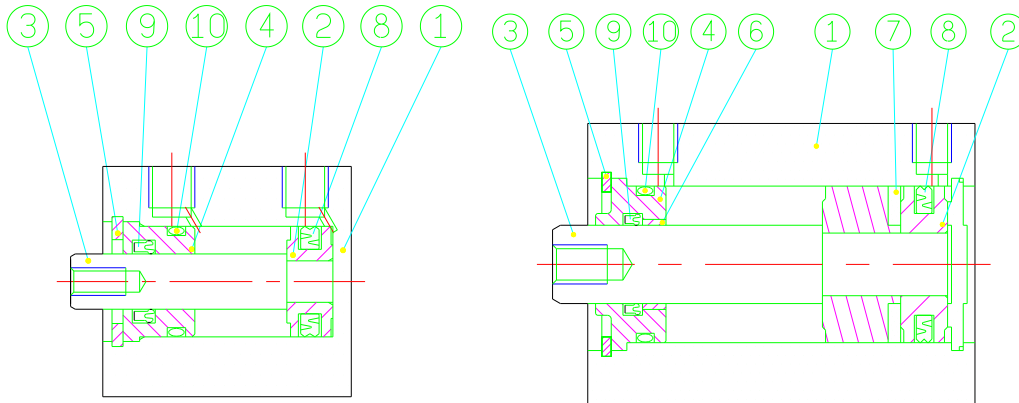
How to order:

JS	R	32	B	LB	TA	2
Series	With magnet	Bore	Rod end male thread	Mounting type	Reed switch	Reed switch
JS Standard type 		ø12 ø16 ø20 ø25 ø32 ø40 ø50 ø63 ø80 ø100		LB Bracket  FA/FB Flange 	TA-11:(JS32~63) DC/AC 4~220V  TD-11:(JS12~100) DC/AC 4~220V 	1 : 1 PC 2 : 2 PCS

• ø12~ø25

• ø32~ø100

Rod end male thread



Parts List:

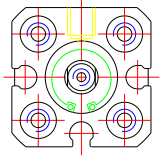
No.	Description	Material	Remarks
①	Barrel	Aluminum alloy	Hard anodized
②	Piston	Aluminum alloy	ø12~ø63 Chromate
③	Piston rod	Stainless steel	ø12 Hard chromate plated
		Carbon steel	ø32~ø63
④	Front end cover	Aluminum bearing alloy	
⑤	Snap ring	Carbon tool steel	Below ø25 stainless steel
⑥	Bush	Oil filled, sintered bronze	ø40~ø63
⑦	Magnet	Synthetic rubber	ø12~ø63

Seals List:

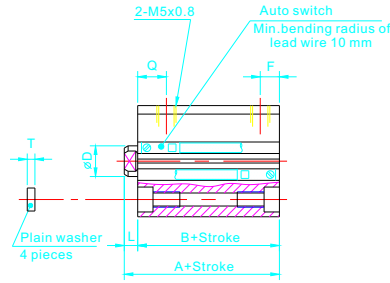
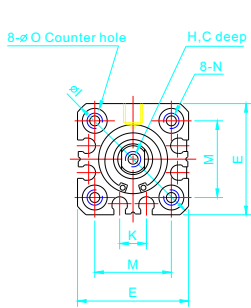
No.	Description	Material	Part No.									
			ø12	ø16	ø20	ø25	ø32	ø40	ø50	ø63	ø80	ø100
⑧	Piston seal	NBR	APA12	APA16	APA20	APA25	APA32	APA40	APA50	APA63	APA80	APA100
⑨	Front end cover seal		MYA6	MYA8	MYA10	MYA12	MYA16	MYA16	MYA20	MYA20	DRP25	DRP30
⑩	Rear cap seal		SM10	SM14	SM18	SM22	SM28	SM36	SM46	SM60	SM75	SM95

Basic type (Through hole / both ends tapped) JS, JSR:

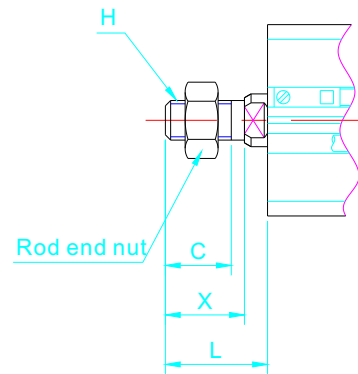
• $\phi 12$



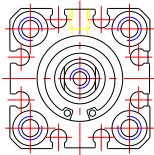
• $\phi 16$



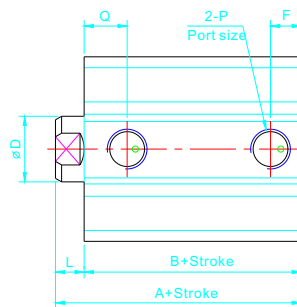
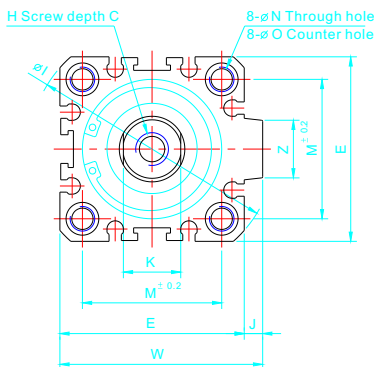
Rod end male thread



• $\phi 20\sim 25$



• $\phi 32\sim 100$



Bore size (mm)	C	X	ϕD	H	L
12	9	10.5	6	M5x0.8	14
16	10	12	8	M6x1.0	15.5
20	12	14	10	M8x1.25	18.5
25	15	17.5	12	M10x1.25	22.5
32	20.5	23.5	16	M14x1.5	28.5
40	20.5	23.5	16	M14x1.5	28.5
50	26	28.5	20	M18x1.5	33.5
63	26	28.5	20	M18x1.5	33.5
80	32.5	35.5	25	M22x1.5	43.5
100	32.5	35.5	30	M26x1.5	43.5

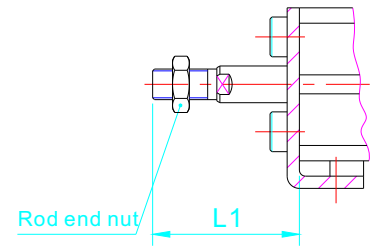
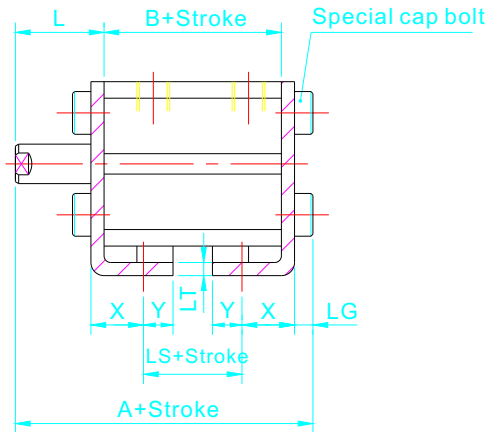
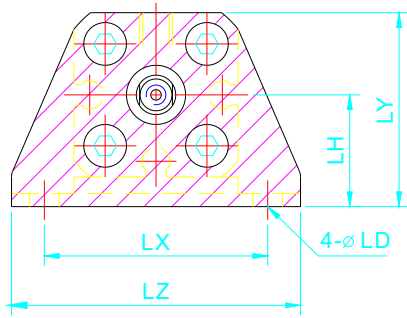
External Dimensions:

Model	Stroke (mm)	Standard		Sensing		C	ϕD	E	F	H	ϕI	J	K	L	M	N	$\phi N1$	P	Q	W	Z
		A	B	A	B																
JS12	5~30	20.5	17	25.5	22	6	6	25	5	M3x0.5	32	-	5	3.5	15.5	M4x0.7	6.5 depth 3.5	M5x0.8	7.5	-	-
JS16	5~30	20.5	17	25.5	22	8	8	29	5.5	M4x0.7	38	-	6	3.5	20	M4x0.7	6.5 depth 3.5	M5x0.8	8	-	10
JS20	5~50	24	19.5	34	29.5	7	10	36	5.5	M5x0.8	47	-	8	4.5	25.5	M6x1.0	9 depth 7	M5x0.8	9	-	10
JS25	5~50	27.5	22.5	37.5	32.5	12	12	40	5.5	M6x1.0	52	-	10	5	28	M6x1.0	9 depth 7	M5x0.8	11	-	10
JS32	5	30	23	40	33	13	16	45	5.5	M8x1.25	60	4.5	14	7	34	M6x1.0	9 depth 7	M5x0.8	11.5	49.5	18
	7.5								1/8										10.5		
JS40	10~50	36.5	29.5	46.5	39.5	13	16	52	8	M8x1.25	69	5	14	7	40	M6x1.0	9 depth 7	1/8	11	57	18
JS50	10~50	38.5	30.5	48.5	40.5	15	20	64	10.5	M10x1.5	86	7	17	8	50	M8x1.25	11 depth 8	1/4	10.5	71	22
JS63	10~50	44	36	54	46	15	20	77	10.5	M10x1.5	103	7	17	8	60	M10x1.5	14 depth 10.5	1/4	15	84	22
JS80	10~50	53.5	43.5	63.5	53.5	21	25	98	12.5	M16x2.0	132	6	22	10	77	M12x1.75	17.5 depth 13.5	3/8	16	104	26
JS100	10~50	65	53	75	63	27	30	117	13	M20x2.5	156	6.5	27	12	94	M12x1.75	17.5 depth 13.5	3/8	23	123.5	26

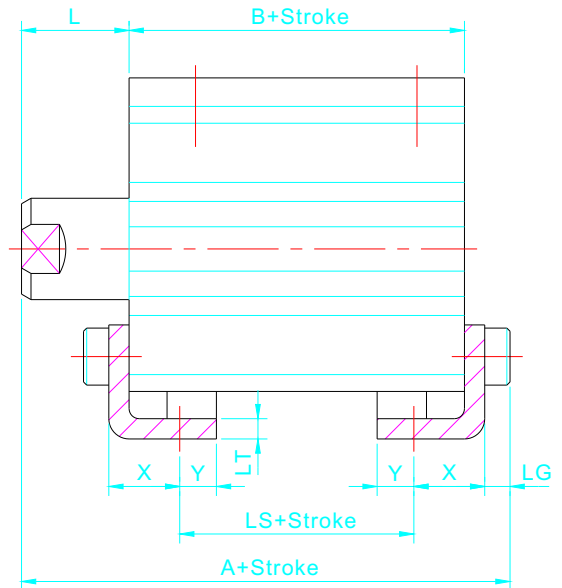
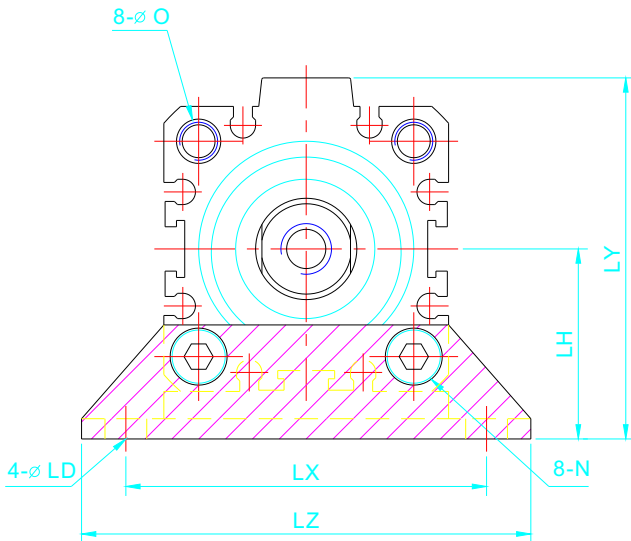
• Foot mounting

• $\phi 12\sim\phi 25$

Rod end male thread



• $\phi 32\sim 100$



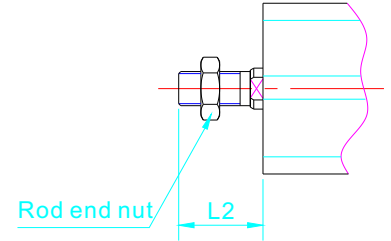
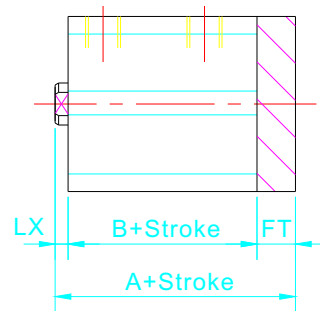
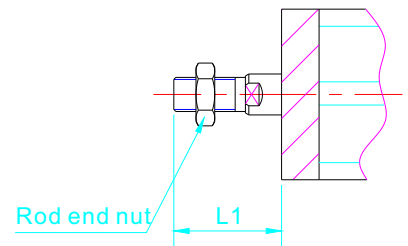
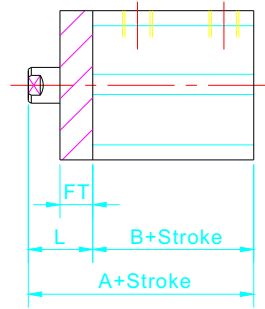
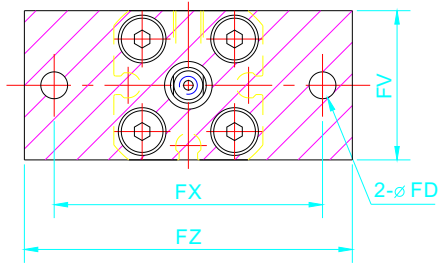
External Dimensions:

Model	Stroke (mm)	Standard			Sensing			L	L1	N	φM1	X	Y	φLD	LG	LH	LT	LX	LY	LZ
		A	B	LS	A	B	LS													
JS12	5~30	35.3	17	5	40.3	22	10	13.5	24	M4 x 0.7	6.5 depth 3.5	8	4.5	4.5	2.8	17	2	34	29.5	44
JS16	5~30	35.3	17	5	40.3	22	10	13.5	25.5	M4 x 0.7	6.5 depth 3.5	8	5	4.5	2.8	19	2	38	33.5	48
JS20	5~50	41.2	19.5	7.5	51.2	29.5	17.5	14.5	28.5	M6 x 1.0	9 depth 7	9.2	5.8	6.6	4	24	3.2	38	42	62
JS25	5~50	44.7	22.5	7.5	54.7	32.5	17.5	15	32.5	M6 x 1.0	9 depth 7	10.7	5.8	6.6	4	26	3.2	52	46	66
JS32	5	47.2	23	7	57.2	33	17	17	38.5	M6 x 1.0	9 depth 7	11.2	5.8	6.6	4	30	3.2	57	57	71
	10~50																			
JS40	10~50	53.7	29.5	13.5	63.7	39.5	23.5	17	38.5	M6 x 1.0	9 depth 7	11.2	7	6.6	4	33	3.2	64	64	78
JS50	10~50	56.7	30.5	7.5	66.7	40.5	17.5	18	43.5	M8 x 1.25	11 depth 8	14.7	8	9	5	39	3.2	79	78	95
JS63	10~50	62.2	36	10	72.2	46	20	18	43.5	M10 x 1.5	14 depth 10.5	16.2	9	11	5	46	3.2	95	91.5	113
JS80	10~50	75	43.5	13.5	85	53.5	23.5	20	53.5	M12x1.75	17.5depth13.5	19.5	11	13	7	59	4.5	118	114	140
JS100	10~50	88	53	19	98	63	29	22	53.5	M12x1.75	17.5depth13.5	23	12.5	13	7	71	6	137	136	162

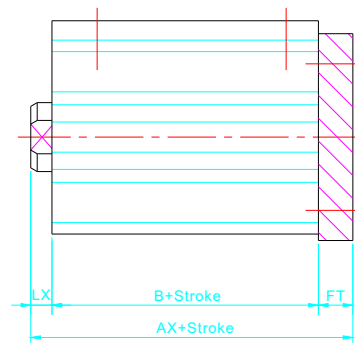
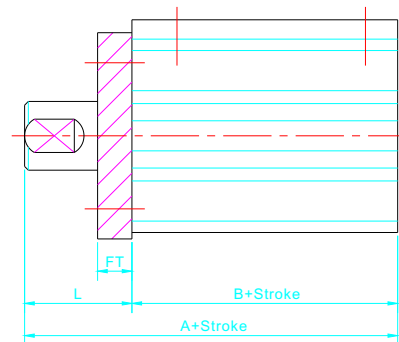
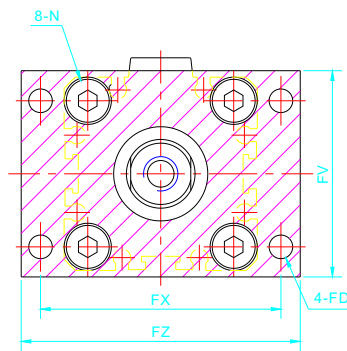
• **Front flange mounting type (FA):**

• $\phi 12\sim\phi 25$

Rod end male thread



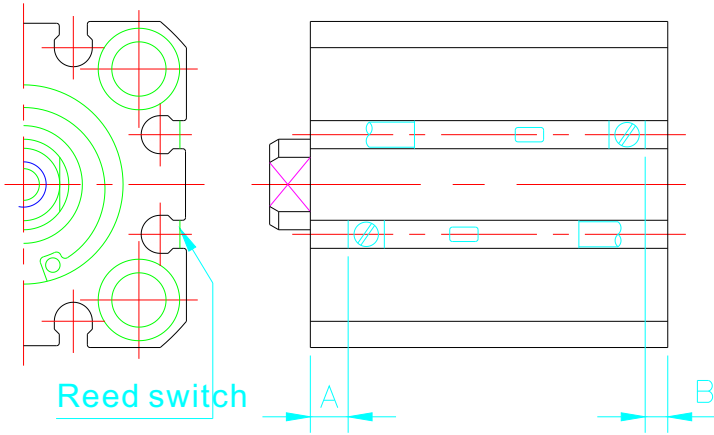
• $\phi 32\sim 100$



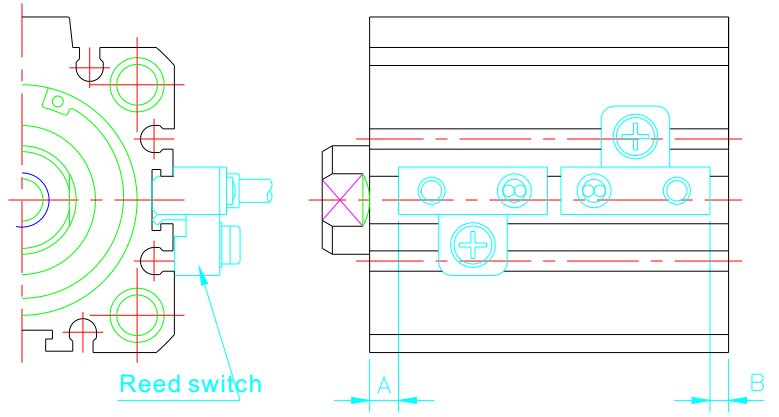
External Dimensions:

Model	Stroke (mm)	Standard			Sensing			L	LX	N	φFD	FT	FV	FX	FZ	L1	L2
		A	AX	B	A	AX	B										
JS 12	5~30	30.5	26	17	35.5	31	22	13.5	3.5	M4 x 0.7	4.5	5.5	25	45	55	24	14
JS 16	5~30	30.5	26	17	35.5	31	22	13.5	3.5	M4 x 0.7	4.5	5.5	30	45	55	25.5	15.5
IS 20	5~50	34	32	19.5	44	42	29.5	14.5	4.5	M6 x 1.0	6.6	8	39	48	60	28.5	18.5
JS 25	5~50	37.5	35.5	22.5	47.5	45.5	32.5	15	5	M6 x 1.0	6.6	8	42	52	64	32.5	22.5
JS 32	5	40	38	23	50	48	33	17	7	M6 x 1.0	5.5	8	48	56	65	38.5	28.5
	M6 x 1.0																
JS 40	10~50	46.5	44.5	29.5	56.5	54.5	39.5	17	7	M6 x 1.0	5.5	8	54	62	72	38.5	28.5
JS 50	10~50	48.5	47.5	30.5	58.5	57.5	40.5	18	8	M8 x 1.25	6.6	9	67	76	89	43.5	33.5
JS 63	10~50	54	53	36	64	63	46	18	8	m10 x 1.5	9	8	80	92	108	43.5	33.5
JS 80	10~50	63.5	64.5	43.5	73.5	74.5	53.5	20	10	m12x1.75	11	11	99	116	134	53.5	43.5
JS100	10~50	75	76	53	85	86	63	22	12	m12x1.75	11	11	117	136	154	53.5	43.5

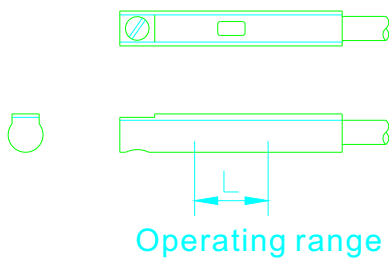
• $\varnothing 12\sim\varnothing 25$



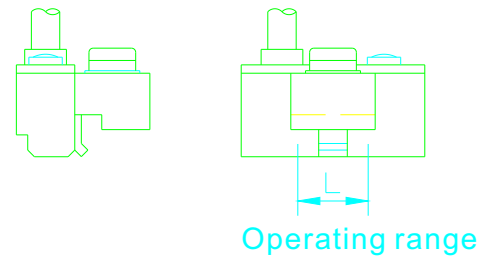
• $\varnothing 32\sim 100$



Reed switch: TD-11



Reed switch: TA-22

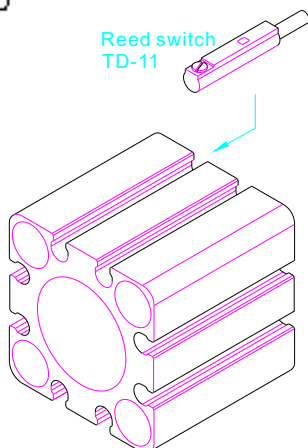


Reed Switches Mounting Positions:

Bore size (mm)	Dimension A	Dimension B	Operating range L
12	2	4.5	7
16	9	4	7
20	4.5	7	15
25	6.5	8.5	13
32	12	11	8
40	14	13	11
50	16	13	11
63	18.5	15	15
80	22	18.5	18
100	25.5	24.5	21.5

How to Install Reed Switches:

• $\varnothing 12\sim\varnothing 25$



• $\varnothing 32\sim\varnothing 100$

