

**Features:**

- ▶ For use in limited space requirements.
- ▶ Double/Single Acting, Non cushioned.
- ▶ Bore Sizes: Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, & Ø100.
- ▶ Aluminum alloy Body.
- ▶ Hard chrome plated steel piston rod.
- ▶ Polyurethane seals.
- ▶ Optional magnetic sensors.
- ▶ Optional Adjustable stroke versions.
- ▶ End face mounting or Foot mounting options.

Technical Specifications :

Specification		Units	Details									
Bore size		mm	12	16	20	25	32	40	50	63	80	100
Type of operation		—	Double/Single acting (Single ended or Double ended)									
Medium		—	Compressed, Filtered Air									
Pressure range		Bar	2 - 7		1.5 - 7			1 - 7				
Max. service pressure		Bar	9.5									
Range of service Temp.		°C	0 - 60									
Range of piston speed	Double acting	mm/sec	50 - 500						50 - 350	50 - 250		
	Single acting		100 - 500						—			
Lubrication		—	Lubrication free									
Connection port		—	M5 x 0.8				RC 1/8"		RC 1/4"		RC 3/8"	
Magnet		—	Standard : Without sensor, S : With sensor									

How to Order

TYPE	TYPE	BOREØ	STROKE	ROD END TYPE	SENSOR
VJ	DA	32	50	B	S
DA - Standard, Double acting SR - Single acting (Spring return) SE - Single acting (Spring extended) DD - Double ended, Double acting AT - Double ended, Adjustable stroke AR - Adjustable stroke (Retraction type)		12, 16, 20, 25, 32, 40, 50, 63, 80 & 100	Ø12 - 5 to 50mm Ø16 - 5 to 50mm Ø20 - 5 to 100mm Ø25 - 5 to 100mm Ø32 - 5 to 100mm Ø40 - 5 to 150mm Ø50 - 5 to 150mm Ø63 - 5 to 150mm Ø80 - 5 to 150mm Ø100 - 5 to 150mm	No code - Female thread B - Male thread	No code - Without sensor S - With sensor

Example: VJDA- 32 - 50 - B - S

Selection Chart :

Symbol	Item	Cylinder bore and stroke																																				
		Bore Size	Standard stroke															With sensor cylinder stroke																				
			5	10	15	20	25	30	35	40	45	50	55	60	75	85	100	125	150	5	10	15	20	25	30	35	40	45	50	55	65	75	90	115	140			
	VJDA Double Acting	12	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●												
		16	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●												
		20	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
		25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		63	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		80	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●
 	VJSR Single Acting (Spring Return) VJSE Single Acting (Spring extended)	12	●	●	●	●														●	●	●	●	●														
		16	●	●	●	●															●	●	●	●	●													
		20	●	●	●	●	●	●													●	●	●	●	●													
		25	●	●	●	●	●	●													●	●	●	●	●													
		32	●	●	●	●	●	●													●	●	●	●	●													
		40	●	●	●	●	●	●													●	●	●	●	●													
50	●	●	●	●	●	●													●	●	●	●	●															
	VJDD Double Ended Double acting	20	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●										
		25	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
		32	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
		40	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
		50	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
		63	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
		80	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
		100	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●	●										
	VJAT Adjustable Stroke	20					●				●			●	●	●								●				●			●	●						
		25					●				●			●	●	●								●				●			●	●						
		32					●				●			●	●	●								●				●			●	●						
		40					●				●			●	●	●								●				●			●	●						
		50					●				●			●	●	●								●				●			●	●						
		63					●				●			●	●	●								●				●			●	●						
		80					●				●			●	●	●								●				●			●	●						
		100					●				●			●	●	●								●				●			●	●						
	VJAR Adjustable Stroke (Retraction type)	20		●		●		●		●		●		●	●	●					●		●		●		●		●		●	●						
		25		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					
		32		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					
		40		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					
		50		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					
		63		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					
		80		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					
		100		●		●		●		●		●		●	●	●						●		●		●		●		●		●	●					

Note: ● Additional 5mm to be added into the overall cylinder length. For example VJDA Ø20 x (35)
The overall cylinder length is same as VJDA Ø20 x 40

Cylinder Thrust : (In Kgf)

Double acting cylinder



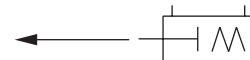
Bore size	Rod dia	Action	Piston area Cm ²	Air pressure (Kgf/cm ²)						
				1	2	3	4	5	6	7
12	6	Push	1.13	—	2.26	3.39	4.52	5.65	6.78	7.91
		Pull	0.84	—	1.69	2.54	3.39	4.24	5.08	5.93
16	6	Push	2.01	—	4.02	6.03	8.04	10.05	12.06	14.07
		Pull	1.73	—	3.45	5.18	6.91	8.63	10.36	12.09
20	8	Push	3.14	—	6	9	12	15	18	21
		Pull	2.64	—	5	7	10	13	15	18
25	10	Push	4.90	—	9	14	19	24	29	34
		Pull	4.12	—	8	12	16	20	24	28
32	12	Push	8.04	—	16	24	32	40	48	56
		Pull	6.90	—	13	20	27	34	41	48
40	16	Push	12.56	12	25	37	50	62	75	87
		Pull	10.55	10	21	31	42	52	63	73
50	20	Push	19.63	19	39	58	78	98	117	137
		Pull	16.49	16	32	49	65	82	98	115
63	20	Push	31.17	31	62	93	124	155	187	218
		Pull	28.03	28	56	84	112	140	168	196
80	25	Push	50.26	50	100	150	201	251	301	351
		Pull	45.36	45	90	136	181	226	272	317
100	25	Push	78.50	78	157	235	314	392	471	549
		Pull	70.05	70	140	211	281	352	422	493

Note: The above data is for reference only. Frictional force and the mechanical efficiency have to be taken into consideration for actual values.

Single acting cylinder

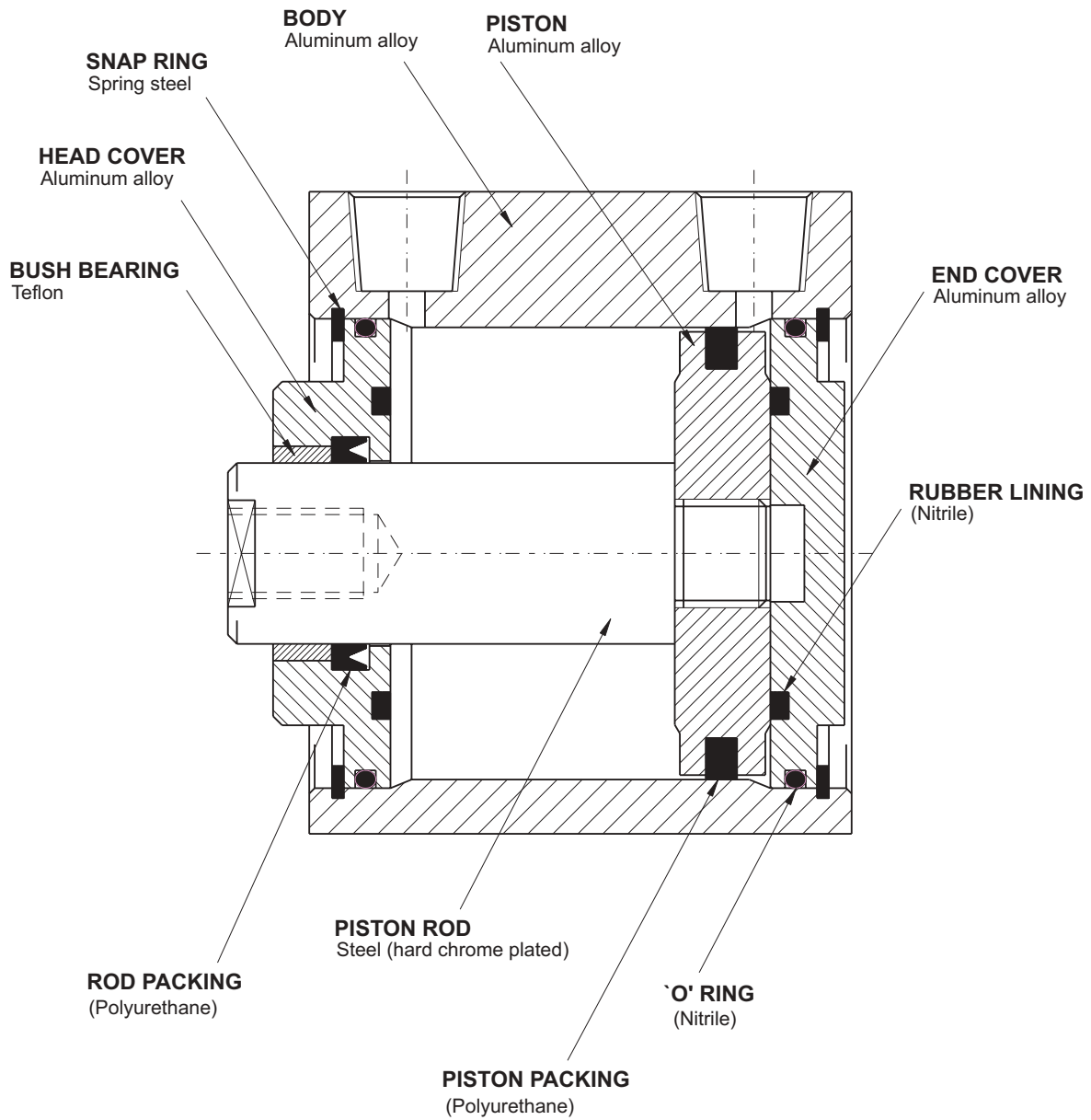
VJSR - Series spring return type

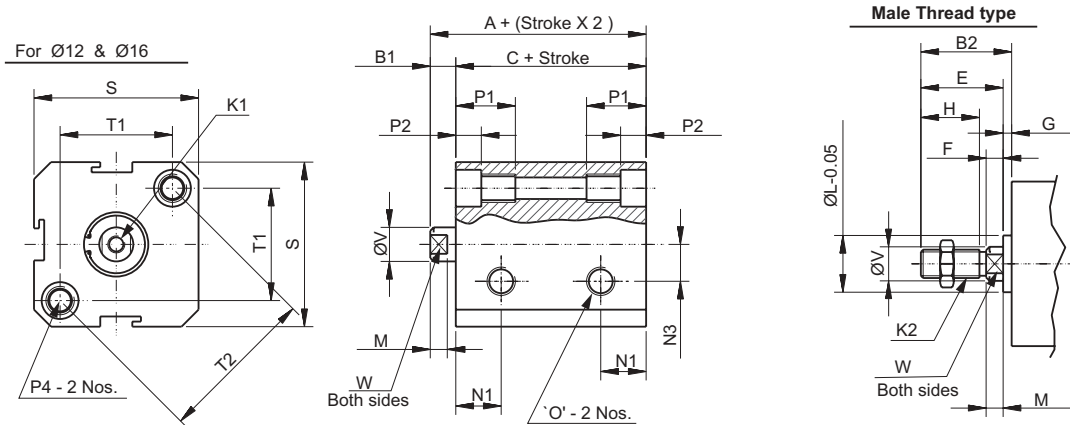
VJSE - Series spring extended type



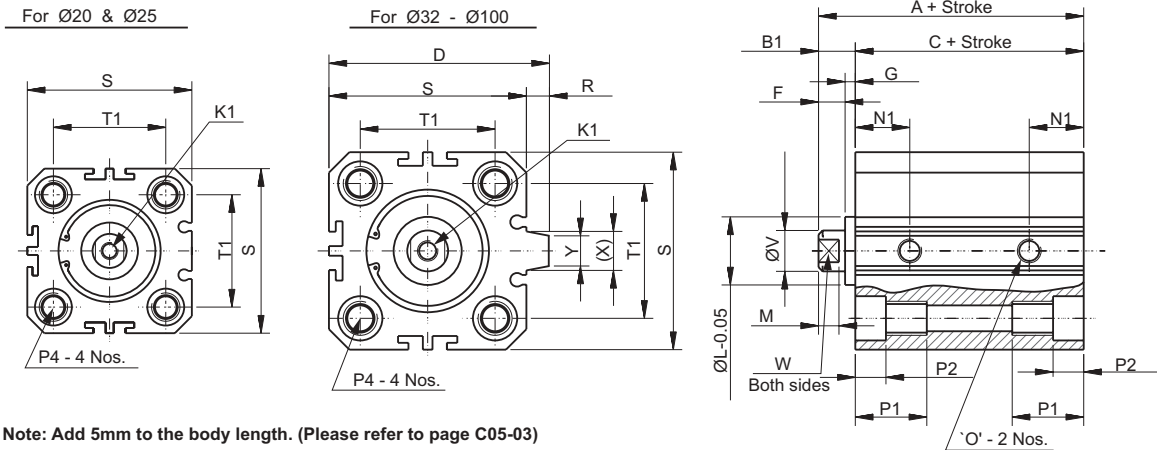
Model	Bore size	Rod dia	Piston area Cm ²	Air pressure (Kgf/cm ²)						
				1	2	3	4	5	6	7
Spring Return VJSR Type	12	6	1.13	—	1.32	2.45	3.56	4.71	5.84	6.97
	16	6	2.01	—	2.85	4.86	6.87	8.88	10.69	12.90
	20	8	3.14	—	5	8	11	14	17	20
	25	10	4.90	—	7	12	17	22	27	32
	32	12	8.04	—	11	19	27	35	43	51
	40	16	12.56	—	19	32	44	57	69	82
	50	20	19.63	—	34	54	74	93	113	133
Spring extended VJSE Type	12	6	0.848	—	0.7	1.6	2.4	3.3	4.1	4.9
	16	6	1.73	—	2.2	4.0	5.7	7.4	9.1	10.9
	20	8	2.64	—	4	6	9	11	14	17
	25	10	4.12	—	6	10	14	18	22	26
	32	12	6.90	—	9	16	22	29	36	43
	40	16	10.55	—	15	26	36	47	57	68
	50	20	16.49	—	28	45	61	78	94	111

Note: The above data is for reference only. Frictional force and the mechanical efficiency have to be taken into consideration for actual values.



Double Acting (Standard) VJDA


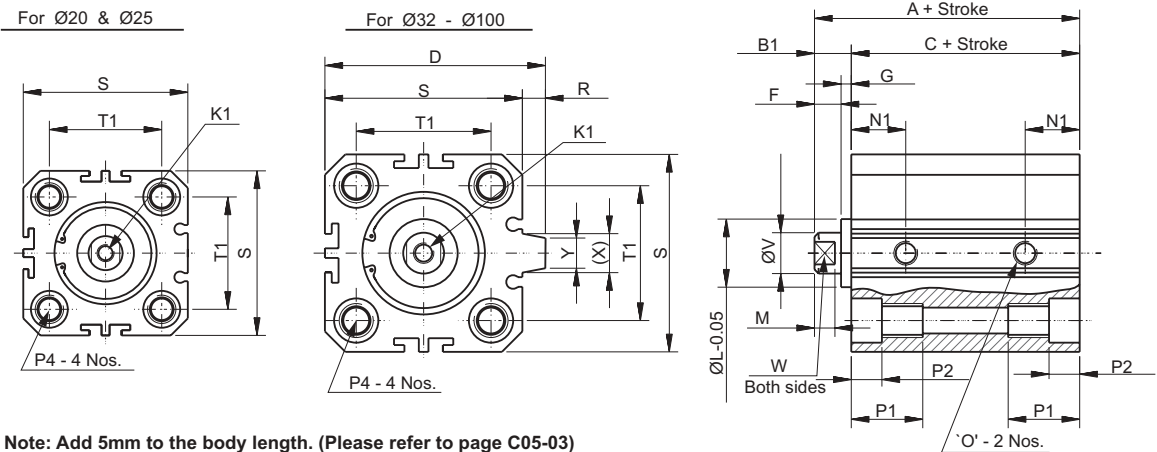
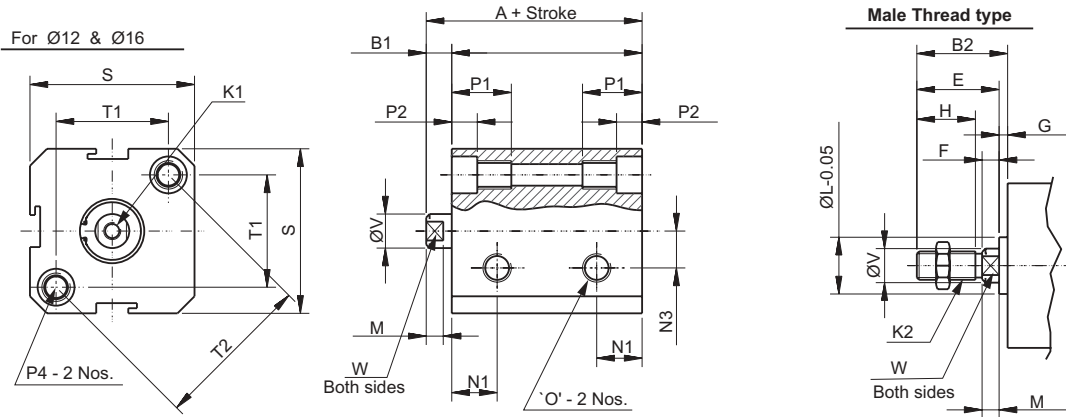
Note: Add 5mm to the body length. (Please refer to page C05-03)



Note: Add 5mm to the body length. (Please refer to page C05-03)

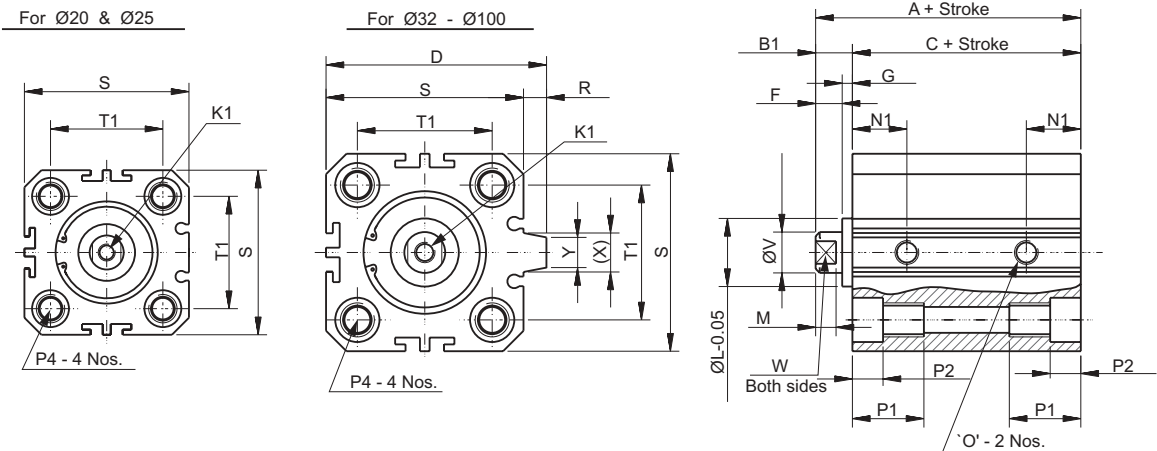
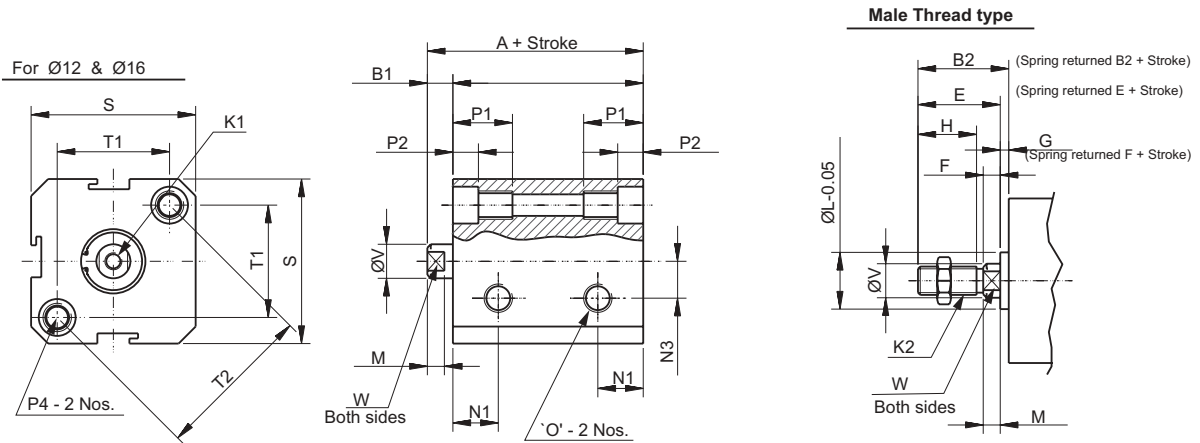
Code	Standard				D	E	F	G	H	K1	K2	L	M	N1	N3	O
Bore dia	A	B1	B2	C												
12	25	4.5	14.5	20.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	7.5	6	M5 x 0.8
16	26	4.5	14.5	20.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	8	6.5	M5 x 0.8
20	25	5.5	19.5	19.5	—	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	—	M5 x 0.8
25	27	6	22	21	—	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	—	M5 x 0.8
32	31	7	24	24	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	—	PT 1/8"
40	33.5	7	34	26.5	58	31	4	3.3	25	M8 x 1.25p x 14 dp.	M14 x 1.5	28	3	10	—	PT 1/8"
50	37.5	9	36	28.6	71	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	38	3	10.8	—	PT 1/4"
63	41.5	9	36	32.5	84.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	40	3	11	—	PT 1/4"
80	52	11	44	41	104	39	6	5	30	M14 x 1.5p x 20 dp.	M22 x 1.5	45	4	13	—	PT 3/8"
100	54	9	42	45.5	124	39	6	3	30	M16 x 2p x 20 dp.	M22 x 1.5	45	4	15	—	PT 3/8"

Bore dia	P4 (Spot facing)										P1	P2	R	S	T1	T2	V	W	X	Y
12	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)										10.5	4.5	—	25	15.7	22.2	6	5	—	—
16	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)										10.5	4.5	—	29	19.8	28	6	5	—	—
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)										11	5	—	34	24	—	8	6	—	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	—	40	28	—	10	8	—	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	6	44	34	—	12	10	15	13.6
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)										18	8	6	52	40	—	16	14	15	13.6
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9	62	48	—	20	17	21.6	19
63	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9.5	75	60	—	20	17	32	20.5
80	Ø9.8 (Thru-hole) Spot facing Ø14 x 10.5 dp. & M12 x 1.75 x 12 (Both sides)										22.5	10.5	10	94	74	—	25	22	38.8	26.8
100	Ø11.5 (Thru-hole) Spot facing Ø18.5 x 13 dp. & M14 x 2 x 15 (Both sides)										28	13	10	114	90	—	25	22	37.3	26.3

Double Acting Cylinder (with Sensor)


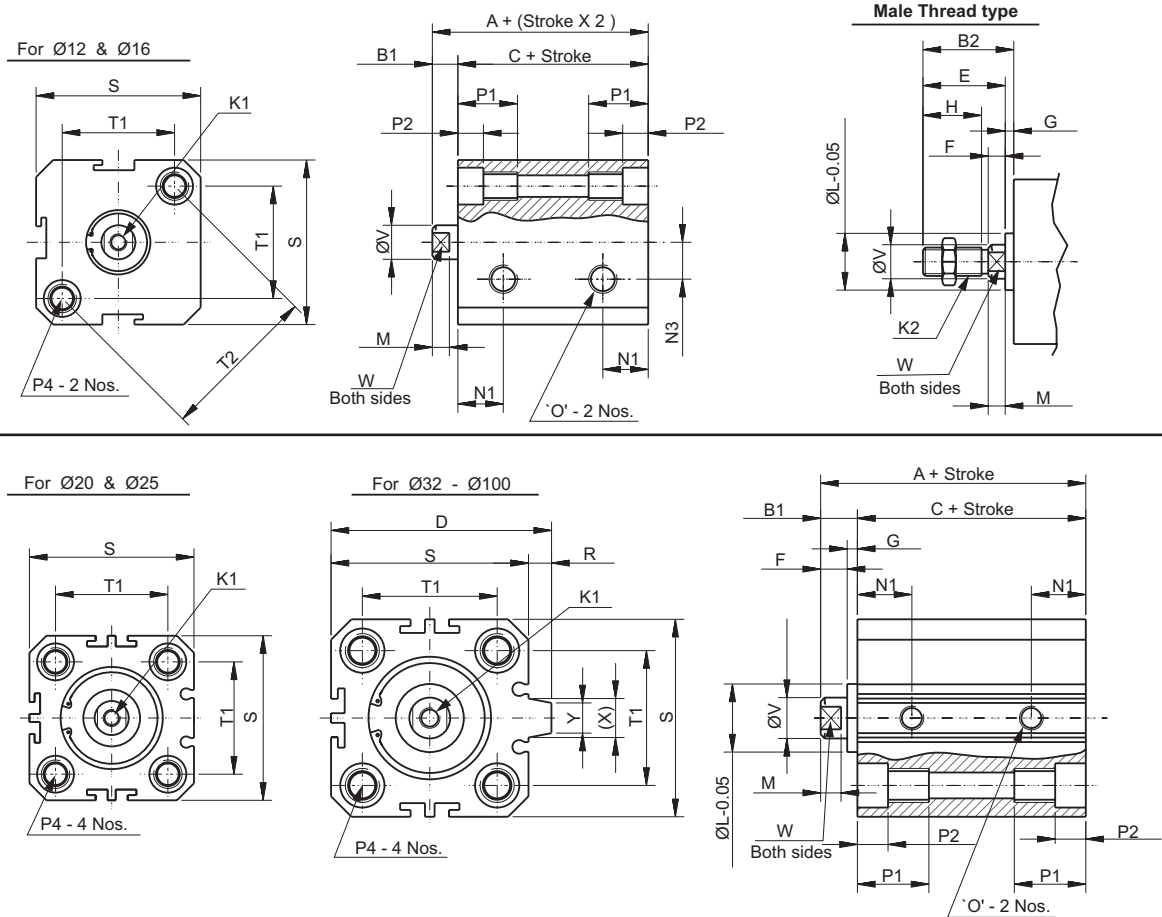
Code	Standard				D	E	F	G	H	K1	K2	L	M	N1	N3	O
Bore dia	A	C	B1	B2												
12	35	30.5	4.5	14.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	7.5	6	M5 x 0.8
16	36	31.5	4.5	14.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	8	6.5	M5 x 0.8
20	35	29.5	5.5	19.5	—	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	—	M5 x 0.8
25	37	31	6	22	—	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	—	M5 x 0.8
32	41	34	7	24	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	—	PT 1/8"
40	43.5	36.5	7	34	58.5	31	4	3.3	25	M8 x 1.25p x 14 dp.	M14 x 1.5	28	3	10	—	PT 1/8"
50	47.5	38.6	9	36	71.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	38	3	10.8	—	PT 1/4"
63	51.5	42.5	9	36	84.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	40	3	11	—	PT 1/4"
80	62	51	11	44	104	39	6	5	30	M14 x 1.5p x 20 dp.	M22 x 1.5	45	4	13	—	PT 3/8"
100	64	55	9	42	124	39	6	3	30	M16 x 2p x 20 dp.	M22 x 1.5	45	4	15	—	PT 3/8"

Bore dia	P4 (Spot facing)	P1	P2	R	S	T1	T2	V	W	X	Y
12	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)	10.5	4.5	—	25	15.7	22.2	6	5	—	—
16	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)	10.5	4.5	—	29	19.8	28	6	5	—	—
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)	11	5	—	34	24	—	8	6	—	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)	14	6	—	40	28	—	10	8	—	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)	14	6	6	44	34	—	12	10	15	13.6
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)	18	8	6	52	40	—	16	14	15	13.6
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)	18.5	8.5	9	62	48	—	20	17	21.6	19
63	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)	18.5	8.5	9.5	75	60	—	20	17	32	20.5
80	Ø9.8 (Thru-hole) Spot facing Ø14 x 10.5 dp. & M12 x 1.75 x 12 (Both sides)	22.5	10.5	10	94	74	—	25	22	38.8	26.8
100	Ø11.5 (Thru-hole) Spot facing Ø18.5 x 13 dp. & M14 x 2 x 15 (Both sides)	28	13	10	114	90	—	25	22	37.3	26.3

Single Acting (Spring Return) VJSR


Code	Standard				With Magnet				B1	B2	D	E	F	G	H	K1	K2	L	M	N1	N3	O
Stroke	5 ~ 15		20 ~ 35		5, 10		20															
Bore dia	A	C	A	C	A	C	A	C														
12	35	30.5	35	30.5	45	40.5	45	40.5	4.5	14.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	7.5	6	M5 x 0.8
16	36	31.5	36	31.5	46	41.5	46	41.5	4.5	14.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	8	6.5	M5 x 0.8
20	35	29.5	35	29.5	45	39.5	45	39.5	5.5	19.5	—	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	—	M5 x 0.8
25	37.2	31	37.2	31	47	41	47	41	6	22	—	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	—	M5 x 0.8
32	41.5	34	41.5	34	51.5	44	51.5	44	7.5	24.3	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	—	PT 1/8"
40	44	36.5	44	36.5	54	46.5	54	46.5	7.5	34.5	58.5	31	4	3.3	25	M8 x 1.25p x 14 dp.	M14 x 1.5	28	3	10	—	PT 1/8"
50	47.5	38.5	47.6	38.5	57.5	48.5	57.5	48.5	9	36	71.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	38	3	10.85	—	PT 1/4"

Bore dia	P4 (Spot facing)	P1	P2	R	S	T1	T2	V	W	X	Y
12	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)	10.5	4.5	—	25	15.7	22.2	6	5	—	—
16	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)	10.5	4.5	—	29	19.8	28	6	5	—	—
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)	11	5	—	34	24	—	8	6	—	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)	14	6	—	40	28	—	10	8	—	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)	14	6	6	44	34	—	12	10	15	10.3
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)	18	8	6.5	52	40	—	16	14	15	16.3
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)	18.5	8.5	9.5	62	48	—	20	17	21.6	20.5

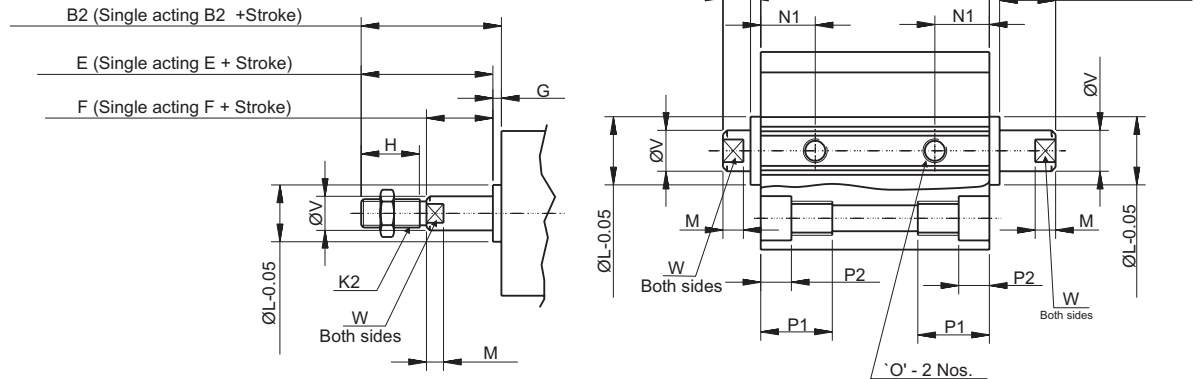
Single Acting (Spring Extended) VJSE


Code	Standard				With Magnet				B1	B2	D	E	F	G	H	K1	K2	L	M	N1	N3	O
Stroke	5 ~ 15		20 ~ 35		5, 10		20															
Bore dia	A	C	A	C	A	C	A	C														
12	35	30.5	35	30.5	45	45	45	40.5	4.5	14.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	9.8	3	7.5	6	M5 x 0.8
16	36	31.5	36	31.5	46	46	46	41.5	4.5	14.5	—	14.5	4.5	—	9	M3 x 0.5p x 7 dp.	M5 x 0.8	10	3	8	6.5	M5 x 0.8
20	35	29.5	35	29.5	45	39.5	45	39.5	5.5	19.5	36	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	—	M5 x 0.8
25	37	31	37	31	47	41	47	41	6	22	42	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	—	M5 x 0.8
32	41.5	34	41.5	34	51.5	44	51.8	44	7.5	24.3	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	—	PT 1/8"
40	44	36.5	44	36.5	54	46.5	54	46.5	7.5	34.5	58.5	31	4	3.3	25	M8 x 1.25p x 14 dp	M14 x 1.5	28	3	10	—	PT 1/8"
50	47.5	38.5	47.5	38.5	57.5	48.5	57.5	48.5	9	36	71.5	32	5	4	25	M10 x 1.5p x 15 dp	M18 x 1.5	38	3	10.85	—	PT 1/4"

Bore dia	P4 (Spot facing)										P1	P2	R	S	T1	T2	V	W	X	Y
12	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)										10.5	4.5	—	25	15.7	22.2	6	5	—	—
16	Ø3.8 (Thru-hole) Spot facing Ø6.5 x 4.5 dp. & M5 x 0.8 x 6 (Both sides)										10.5	4.5	—	29.4	19.8	28	6	5	—	—
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)										11	5	—	34	24	—	8	6	—	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	—	40	28	—	10	8	—	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	6	44	34	—	12	10	15	10.3
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)										18	8	6.5	52	40	—	16	14	15	16.3
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9.5	62	48	—	20	17	21.6	20.5

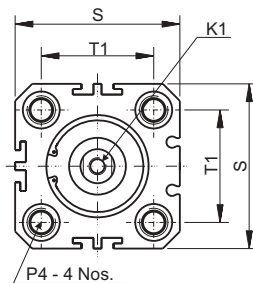
Double Ended Cylinder VJDD

Male Thread Type

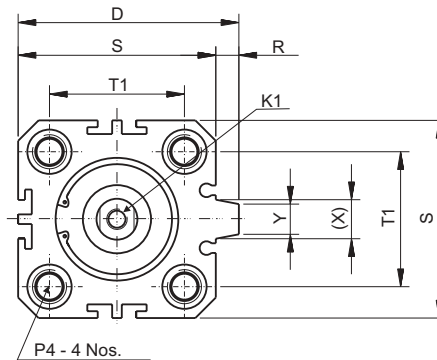


Note: Add 5mm to the body length. (Please refer to page C05-03)

For Ø20 & Ø25



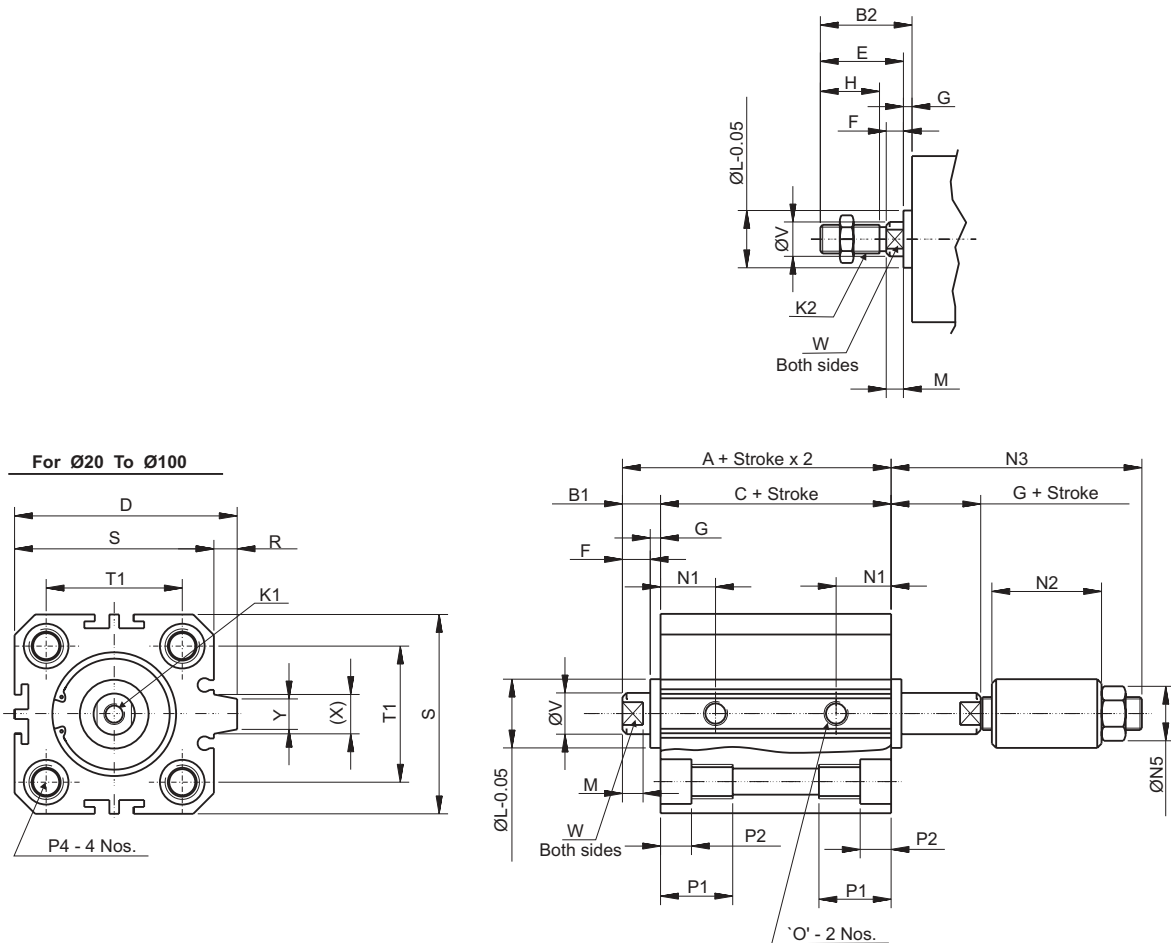
For Ø32 - Ø100



Note: Add 5mm to the body length. (Please refer to page C05-03)

Code	Standard		With Magnet		B1	B2	D	E	F	G	H	K1	K2	L	M	N1	N3	O
Stroke	A	C	A	C														
Bore dia																		
20	30.5	19.5	40.5	29.5	5.5	19.5	—	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	—	M5 x 0.
25	33.2	21.2	43.2	31.2	6	22	—	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	—	M5 x 0.
32	38	24	48	34	7.5	24.3	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	—	PT 1/8
40	40.5	26.5	50.5	36.5	7.5	34.5	58.5	31	4	3.3	25	M8 x 1.25p x 14 dp.	M14 x 1.5	28	3	10	—	PT 1/8
50	46	28.6	56	38.6	9	36	71.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	38	3	10.85	—	PT 1/4
63	50.5	32.5	60.5	42.5	9	36	84.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	40	3	11	—	PT 1/4
80	63	41.3	73	51.3	11	44	104	39	6	5	30	M14 x 1.5p x 20 dp.	M22 x 1.5	45	4	13	—	PT 3/8
100	63	45.3	73	55.3	9	42	124	39	6	3	30	M16 x 2p x 20 dp.	M22 x 1.5	55	4	15	—	PT 3/8

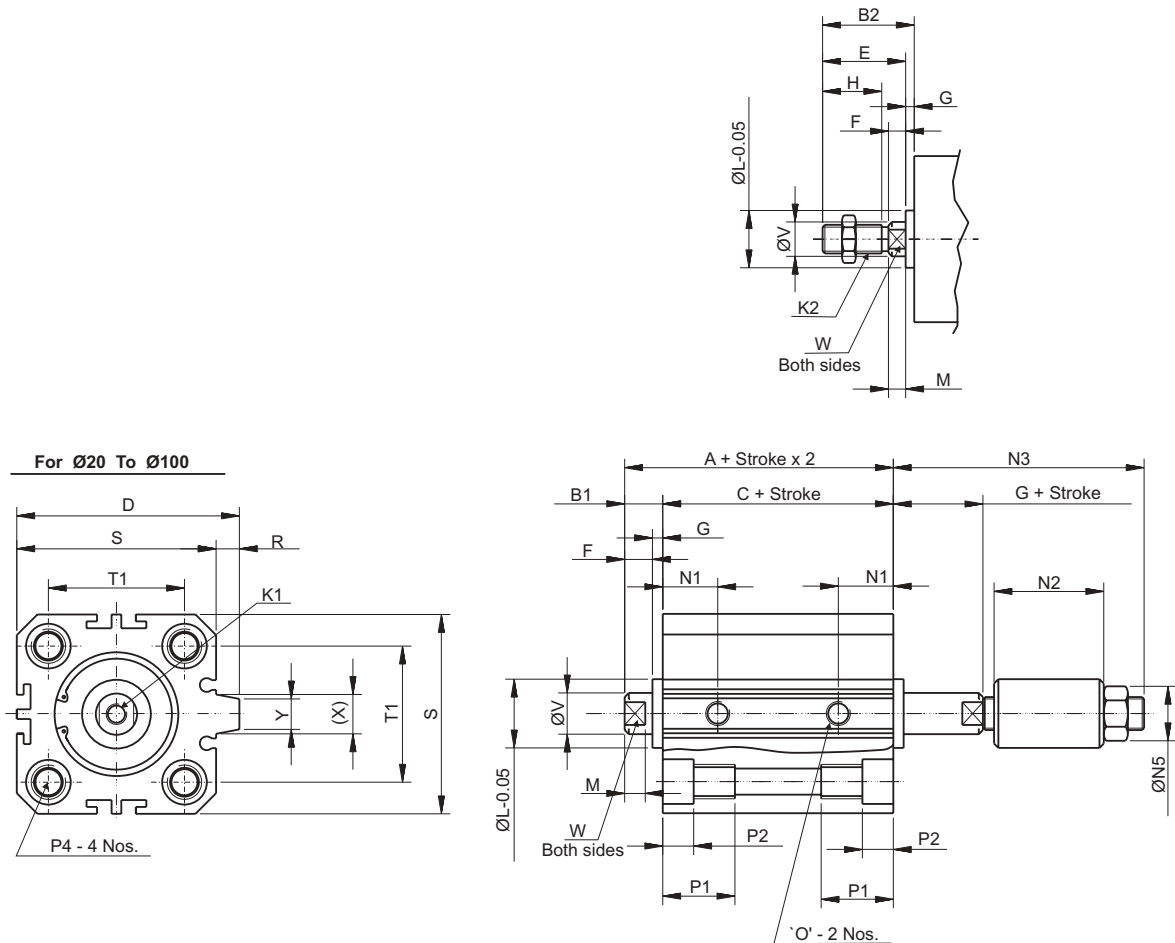
Bore dia	P4 (Spot facing)	P1	P2	R	S	T1	T2	V	W	X	Y
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)	11	5	—	34	24	—	8	6	—	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)	11	6	—	40	28	—	10	8	—	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)	14	6	6	44	34	—	12	10	15	10.3
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)	14	8	6.5	52	40	—	16	14	24.3	16.3
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)	18.5	8.5	9.5	62	48	—	20	17	33	20.5
63	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)	18.5	8.5	9.5	75	60	—	20	17	32	20.5
80	Ø9.8 (Thru-hole) Spot facing Ø14 x 10.5 dp. & M12 x 1.75 x 12 (Both sides)	22.5	10.5	10	94	74	—	25	22	38.8	26.8
100	Ø11.5 (Thru-hole) Spot facing Ø18.5 x 13 dp. & M14 x 2 x 15 (Both sides)	28	13	10	114	90	—	25	22	37.3	26.3

Adjustable Stroke Cylinder VJAT
Male Thread type


Note: 1. Standard stroke 30, 50, 75, 100 (Stroke 30mm is adjustable to 25mm stroke: Stroke 50, 75, 100mm is adjustable to 40mm)
2. Deduct 20mm from N2, N3 when cylinder standard stroke is 30mm.

Code	Standard		With Magnet		B1	B2	D	E	F	G	H	K1	K2	L	M	N1	N2	N3	N5	O
Stroke Bore dia	A	C	A	C																
20	26.5	19.5	36.5	29.5	5.5	19.5	36	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	56	64.5	16	M5 x 0.8
25	29	21.2	39	31.2	6	22	42	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	58	68	20	M6 x 0.8
32	34.5	24	44.5	34	7.5	24.3	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	58	69.5	25	PT 1/8"
40	37	26.5	47	36.5	7.5	34.5	58.5	31	4	3.3	25	M8 x 1.25p x 14 dp.	M14 x 1.5	28	3	10	60	75	32	PT 1/8"
50	41.6	28.6	51.6	38.6	9	36	71.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	38	3	10.85	62	82	38	PT 1/4"
63	45.5	32.5	55.5	42.5	9	36	84.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	40	3	11	62	82	38	PT 1/4"
80	57	41.3	67	51.3	11	44	104	39	6	5	30	M14 x 1.5p x 20 dp.	M22 x 1.5	45	4	13	62	84.5	44	PT 3/8"
100	57	45.3	67	55.3	9	42	124	39	6	3	30	M16 x 2p x 20 dp.	M22 x 1.5	55	4	15	62	84.5	44	PT 3/8"

Bore dia	P4 (Spot facing)										P1	P2	R	S	T1	V	W	X	Y
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)										11	5	2	34	24	8	6	1	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	2	40	28	10	8	1	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	6	44	34	12	10	1	10.3
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)										18	8	6.5	52	40	16	14	1.6	16.3
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9.5	62	48	20	17	1.6	20.5
63	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9.5	75	60	20	17	1.6	20.5
80	Ø9.8 (Thru-hole) Spot facing Ø14 x 10.5 dp. & M12 x 1.75 x 12 (Both sides)										22.5	10.5	10	94	74	25	22	1.6	26.8
100	Ø11.5 (Thru-hole) Spot facing Ø18.5 x 13 dp. & M14 x 2 x 15 (Both sides)										28	13	10	114	90	25	22	2	26.3

Adjustable Stroke (Retraction Type) VJAR
Male Thread type


Note: 1. Stroke adjustable 10mm.

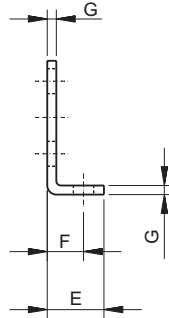
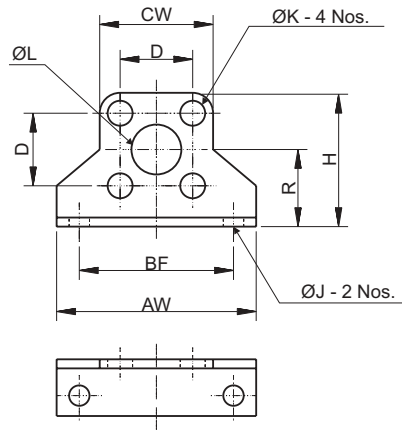
2. Strokes 5, 15, 25, 35, 45, 55. Add 5mm to the body length. (Please refer to page C05-03)

Code	Standard		With Magnet		B1	B2	D	E	F	G	H	K1	K2	L	M	N1	N2	N3	N4	O
Stroke Bore dia	A	C	A	C																
20	25	19.5	35	29.5	5.5	19.5	36	18	4	1.5	13	M4 x 0.7p x 10 dp.	M6 x 1	13	3	7.5	15.3	38.3	M5 x 0.8	M5 x 0.8
25	27.2	21.2	37.2	31.2	6	22	42	20	4	2	15	M5 x 0.8p x 12 dp.	M8 x 1.25	17	3	8	14.9	37.9	M6 x 0.8	M6 x 0.8
32	31.5	24	41.5	34	7	24.3	50	21	4	3.3	16	M6 x 1p x 14 dp.	M10 x 1.25	22	3	9	17.1	43.1	PT 1/8"	PT 1/8"
40	34	26.5	44	36.5	7	34.5	58.5	31	4	3.3	25	M8 x 1.25p x 14 dp.	M14 x 1.5	28	3	10	16.3	42.3	PT 1/8"	PT 1/8"
50	37.5	28.6	47.5	38.6	9	36	71.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	38	3	10.85	20.7	50.7	PT 1/4"	PT 1/4"
63	41.5	32.5	51.5	42.5	9	36	84.5	32	5	4	25	M10 x 1.5p x 15 dp.	M18 x 1.5	40	3	11	19.8	49.8	PT 1/4"	PT 1/4"
80	52.3	41.3	62.3	51.3	11	44	104	39	6	5	30	M14 x 1.5p x 20 dp.	M22 x 1.5	45	4	13	18.6	48.6	PT 3/8"	PT 3/8"
100	54.3	45.3	64.3	55.3	9	42	124	39	6	3	30	M16 x 2p x 20 dp.	M22 x 1.5	55	4	15	16.6	46.6	PT 3/8"	PT 3/8"

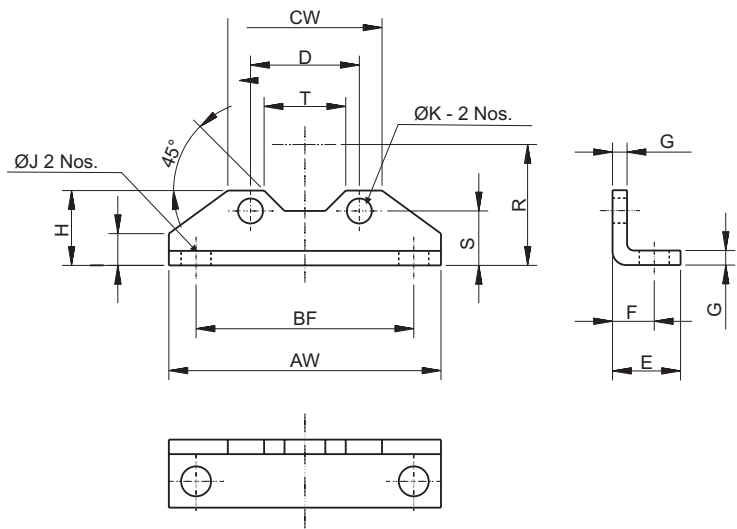
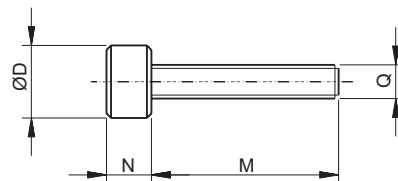
Bore dia	P4 (Spot facing)										P1	P2	R	S	T1	V	W	X	Y
20	Ø4.3 (Thru-hole) Spot facing Ø7 x 5 dp. & M5 x 0.8 x 6 (Both sides)										11	5	2	34	24	8	6	—	—
25	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	2	40	28	10	8	—	—
32	Ø4.8 (Thru-hole) Spot facing Ø8 x 6 dp. & M6 x 1.0 x 8 (Both sides)										14	6	6	44	34	12	10	15	10.3
40	Ø6.8 (Thru-hole) Spot facing Ø9.5 x 8 dp. & M8 x 1.25 x 10 (Both sides)										18	8	6.5	52	40	16	14	24.3	16.3
50	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9.5	62	48	20	17	33	20.5
63	Ø6.8 (Thru-hole) Spot facing Ø11 x 8.5 dp. & M8 x 1.25 x 10 (Both sides)										18.5	8.5	9.5	75	60	20	17	32	20.5
80	Ø9.8 (Thru-hole) Spot facing Ø14 x 10.5 dp. & M12 x 1.75 x 12 (Both sides)										22.5	10.5	10	94	74	25	22	38.8	26.8
100	Ø11.5 (Thru-hole) Spot facing Ø18.5 x 13 dp. & M14 x 2 x 15 (Both sides)										28	13	10	114	90	25	22	37.3	26.3

Mounting Bracket VJDA

For Ø12 & Ø16



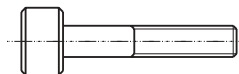
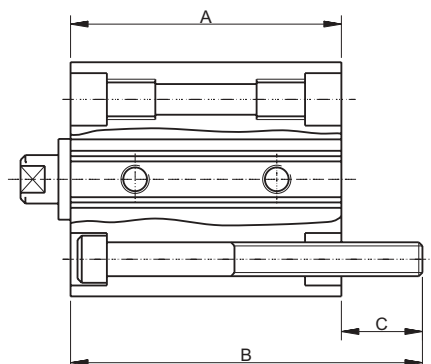
For Ø20 To Ø50


Mounting Screw


Item	Code	AW	BE	BF	CW	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
	Bore dia																				
VJDA - LB12	12	44	34	—	25	15.7	12.5	8	2	29.5	4.5	4.5	5.5	11	12	5	9.5	M5	17	8.9	—
VJDA - LB16	16	48	38	—	29	19.8	13	8	2	33.5	4.5	4.5	5.5	11	12	5	9.5	M5	19	9.1	—
VJDA - LB20	20	60	44	48	34	24	15	9.2	3.2	16.5	7	6.5	5.5	—	12	5	9.5	M5	24	12	18
VJDA - LB25	25	66	51	53	40	28	16.5	10.7	3.2	17.5	6	6.5	6.5	—	14	6	10.5	M6	26	12	24
VJDA - LB32	32	70	55	57	44	34	17	11.2	3.2	19	8	6.5	6.5	—	14	6	10.5	M6	30	13	27
VJDA - LB40	40	78	63	65	52	40	18.2	11.2	3.2	19	7	6.5	8.5	—	20	8	14	M8	33	13	33
VJDA - LB50	50	96	77	79	62	48	22.7	14.7	3.2	22	8	9	8.5	—	20	8	14	M8	39	15	42

Mounting Screw VJDA

The Body Length and Screw specification Table



Model	A	B	C	Screw Size
VJDA12 x 5	25.5	25	4	M3 x 25L
VJDA12 x 10	30.5	30	4	M3 x 30L
VJDA12 x 15	35.5	35	4	M3 x 35L
VJDA12 x 20	40.5	40	4	M3 x 40L
VJDA12 x 25	45.5	45	4	M3 x 45L
VJDA12 x 30	50.5	50	4	M3 x 50L
VJDA12 x 40 (35)	60.5	60	4	M3 x 60L
VJDA12 x 50 (45)	70.5	70	4	M3 x 70L
VJDA16 x 5	26.5	30	8	M3 x 30L
VJDA16 x 10	31.5	35	8	M3 x 35L
VJDA16 x 15	36.5	40	8	M3 x 40L
VJDA16 x 20	41.5	45	8	M3 x 45L
VJDA16 x 25	46.5	50	8	M3 x 50L
VJDA16 x 30	51.5	55	8	M3 x 55L
VJDA16 x 40 (35)	61.5	65	8	M3 x 65L
VJDA16 x 50 (45)	71.5	75	8	M3 x 75L
VJDA20 x 10 (5)	29.5	35	10.5	M4 x 35L
VJDA20 x 20 (15)	39.5	45	10.5	M4 x 45L
VJDA20 x 30 (25)	49.5	55	10.5	M4 x 55L
VJDA20 x 40 (35)	59.5	65	10.5	M4 x 65L
VJDA20 x 50 (45)	69.5	75	10.5	M3 x 75L
VJDA25 x 10 (5)	31.2	35	9.8	M4 x 35L
VJDA25 x 20 (15)	41.2	45	9.8	M4 x 45L
VJDA25 x 30 (25)	51.2	55	9.8	M4 x 55L
VJDA25 x 40 (35)	61.2	65	9.8	M4 x 65L
VJDA25 x 50 (45)	71.2	75	9.8	M3 x 75L
VJDA32 x 10 (5)	34	40	12	M4 x 40L
VJDA32 x 20 (15)	44	50	12	M4 x 50L
VJDA32 x 30 (25)	54	60	12	M4 x 60L
VJDA32 x 40 (35)	64	70	12	M4 x 70L
VJDA32 x 50 (45)	74	80	12	M3 x 80L

Model	A	B	C	Screw Size
VJDA40 x 10 (5)	36.5	40	11.5	M5 x 40L
VJDA40 x 20 (15)	46.5	50	11.5	M5 x 50L
VJDA40 x 30 (25)	56.5	60	11.5	M5 x 60L
VJDA40 x 40 (35)	66.5	70	11.5	M5 x 70L
VJDA40 x 50 (45)	76.5	80	11.5	M5 x 80L
VJDA40 x 60 (55)	86.5	90	11.5	M5 x 90L
VJDA40 x 75	101.5	110	16.5	M5 x 110L
VJDA50 x 10 (5)	38.6	40	9.9	M6 x 40L
VJDA50 x 20 (15)	48.6	50	9.9	M6 x 50L
VJDA50 x 30 (25)	58.6	60	9.9	M6 x 60L
VJDA50 x 40 (35)	68.6	70	9.9	M6 x 70L
VJDA50 x 50 (45)	78.8	80	9.9	M6 x 80L
VJDA50 x 60 (55)	88.6	90	9.9	M6 x 90L
VJDA50 x 75	103.6	110	14.9	M6 x 110L
VJDA63 x 10 (5)	42.6	50	16	M6 x 50L
VJDA63 x 20 (15)	52.6	60	16	M6 x 60L
VJDA63 x 30 (25)	62.5	70	16	M6 x 70L
VJDA63 x 40 (35)	72.5	80	16	M6 x 80L
VJDA63 x 50 (45)	82.5	90	16	M6 x 90L
VJDA63 x 60 (55)	92.5	110	16	M6 x 100L
VJDA63 x 75	107.5	120	21	M6 x 120L
VJDA80 x 10 (5)	51.3	60	19.2	M8 x 60L
VJDA80 x 20 (15)	61.3	70	19.2	M8 x 70L
VJDA80 x 30 (25)	71.3	80	19.2	M8 x 80L
VJDA80 x 40 (35)	81.3	90	19.2	M8 x 90L
VJDA80 x 50 (45)	91.3	110	19.2	M8 x 110L
VJDA80 x 60 (55)	101.3	120	19.2	M8 x 120L
VJDA80 x 75	116.3	130	24.2	M8 x 130L
VJDA100 x 10 (5)	55.3	65	22.7	M6 x 60L
VJDA100 x 20 (15)	65.3	75	22.7	M6 x 70L
VJDA100 x 30 (25)	75.3	85	22.7	M6 x 80L
VJDA100 x 40 (35)	85.3	95	22.7	M6 x 90L
VJDA100 x 50 (45)	95.3	110	22.7	M6 x 110L
VJDA100 x 60 (55)	105.3	120	22.7	M6 x 120L
VJDA100 x 75	120.3	130	22.7	M6 x 130L