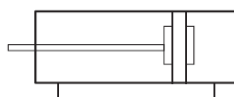


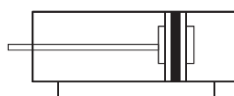
PVSF Series ISO21287 Compact Cylinder



PVSF



PVSF-S



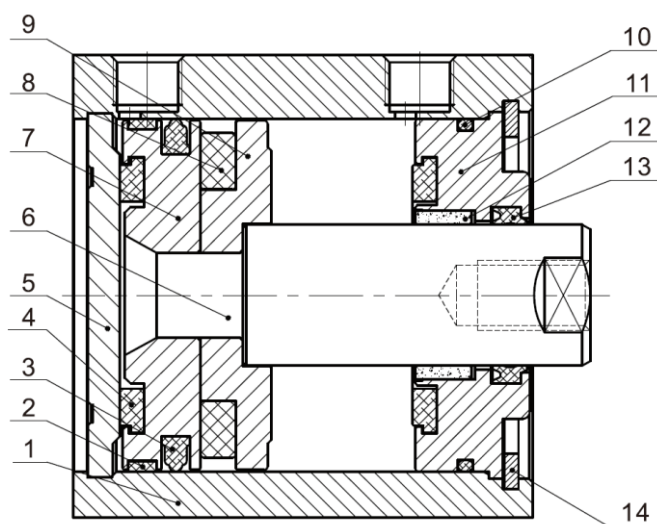
P	V	S	F		20	x	5	-		-	S	-	
Series no.		Type No.		Bore		Stroke		Adjustable stroke		Magnet		Piston Rod thread type	
PVSF		Blank: Basic type		20		5		10		Blank: No magnet		Blank: Female thread	
		D: Double shaft		25		10		20		S: With magnet		M: Male thread	
		J: Double shaft and adjustable stroke type		32		15		30					
		SA: Single acting spring extend		...		20		40					
		SB: Single acting spring return		100		...		50					
								75					
								100					

Specifications

Bore size (mm)	20	25	32	40	50	63	80	100
Acting type	Single acting / Double acting							
Working medium	Clean air (After 40 µm filtration)							
Working pressure (bar)	2 ~ 10 (Single acting) / 1 ~ 10 (Double acting)							
Guaranteed pressure (bar)	15							
Working temperature (°C)	-20 ~ 80 (No freezing)							
Speed range (mm/s)	30 ~ 500							
Cushion type	Rubber cushion							
Port size	M5x0.8			G1/8				

Bore (mm)		Standard stroke (mm)	Max. stroke (mm)
Single acting	20 ~ 63	5 10 15 20 25	25
Double acting	20/25	5 10 15 20 25 30 35 40 45 50 60 80 100 125 150	150
	32 ~ 63	5 10 15 20 25 30 35 40 45 50 60 80 100 125 150 175 200	200
	80/100	10 15 20 25 30 35 40 45 50 60 80 100 125 150 175 200	200

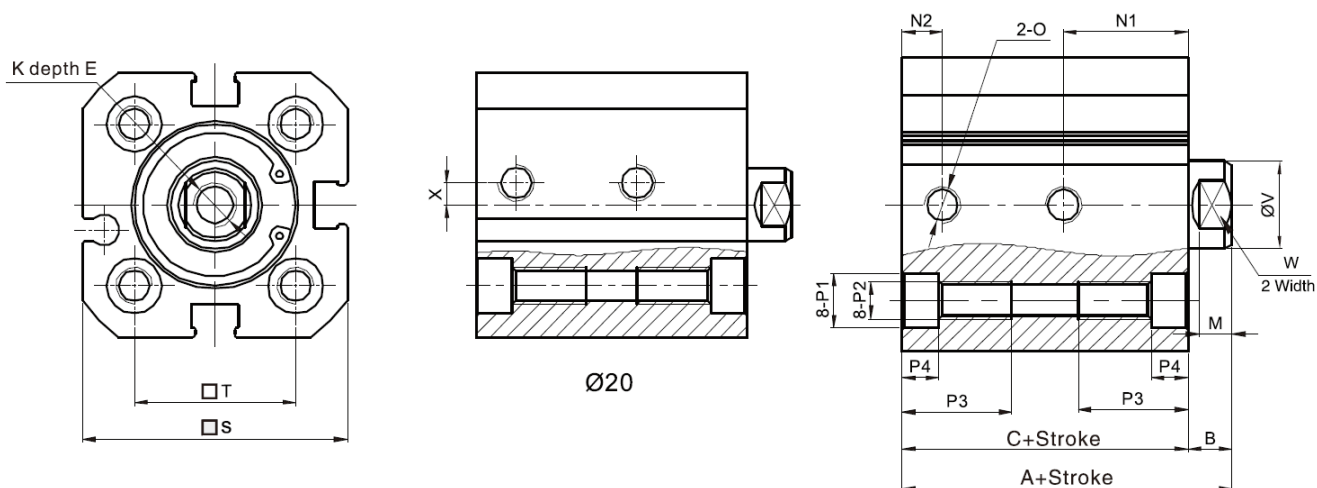
Internal Structure



No.	Part name	20	25	32	40	50	63	80	100
1	Barrel	Aluminum alloy							
2	Wear ring	No			PTEE				
3	Piston seal	NBR							
4	Anti-bump cushion	TPU				NBR			
5	Rear cover	Aluminum alloy							
6	Piston rod	Stainless steel		Carbon steel					
7	Piston	Aluminum alloy							
8	Magnet	RbFeB			Plastic				
9	Magnet base	Aluminum alloy							
10	O-ring	NBR							
11	Head cover	Aluminum alloy							
12	Bearing	No			Bronze powder				
13	Piston rod seal	TPU							
14	C type retainer ring	Spring steel							

Main Dimension

PVSF $\varnothing 20$, $\varnothing 25$

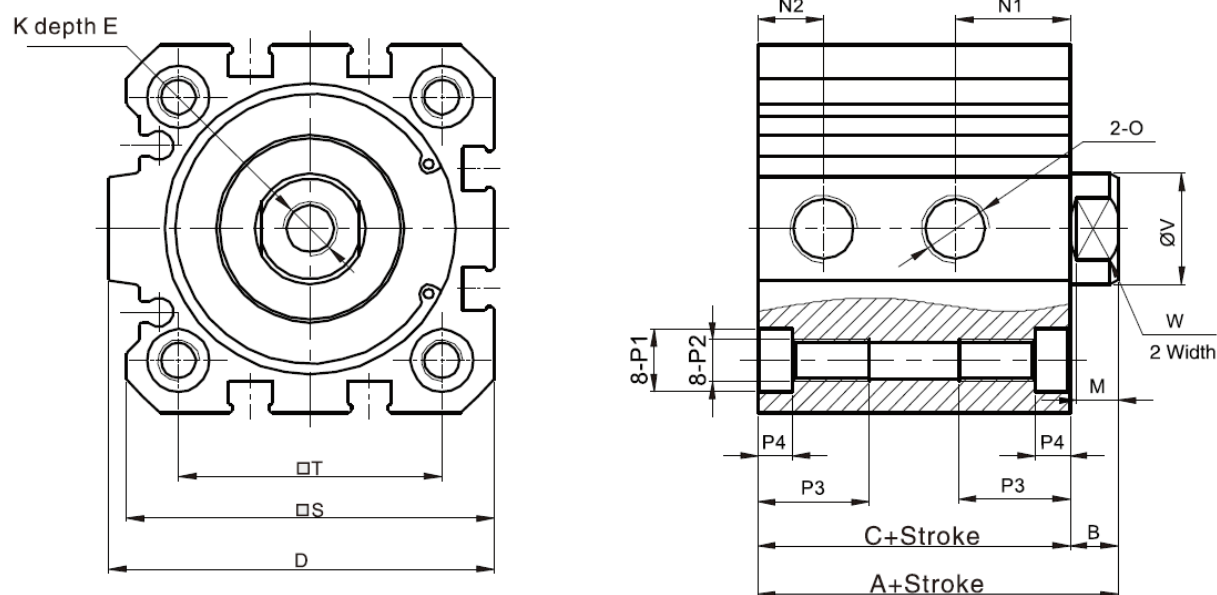


(mm)

Bore	A	C	N1	N2	B	E	M	K	O
20	43	37	15	5.5	6	10	4	M6x1.0	M5x0.8
25	45	39	17	5.5	6	10	4.5	M6x1.0	M5x0.8

Bore	P1	P2	P3	P4	S	T	X	V	W
20	$\varnothing 7.3$	M5x0.8	15	5	36	22	3	10	8
25	$\varnothing 7.3$	M5x0.8	15	5	40	26	-	12	10

PVSF $\varnothing 32$, $\varnothing 40$

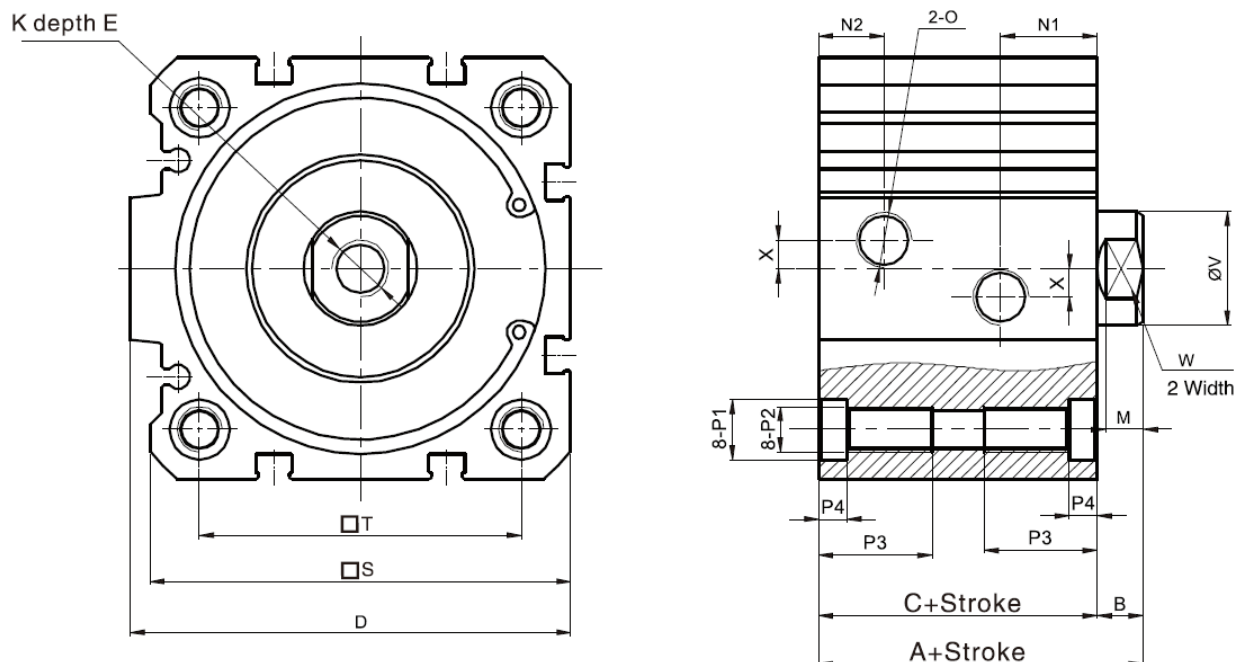


(mm)

Bore	A	C	N1	N2	B	D	E	M	K
32	51	44	15	8	7	48	12	6	M8x1.25
40	52	45	16.5	9.5	7	55.5	12	6	M8x1.25

Bore	O	P1	P2	P3	P4	S	T	V	W
32	1/8"	$\varnothing 9$	M6x1.0	16	5	45.5	32.5	16	14
40	1/8"	$\varnothing 9$	M6x1.0	16	5	53	38	16	14

PVSF $\varnothing 50 \sim \varnothing 100$



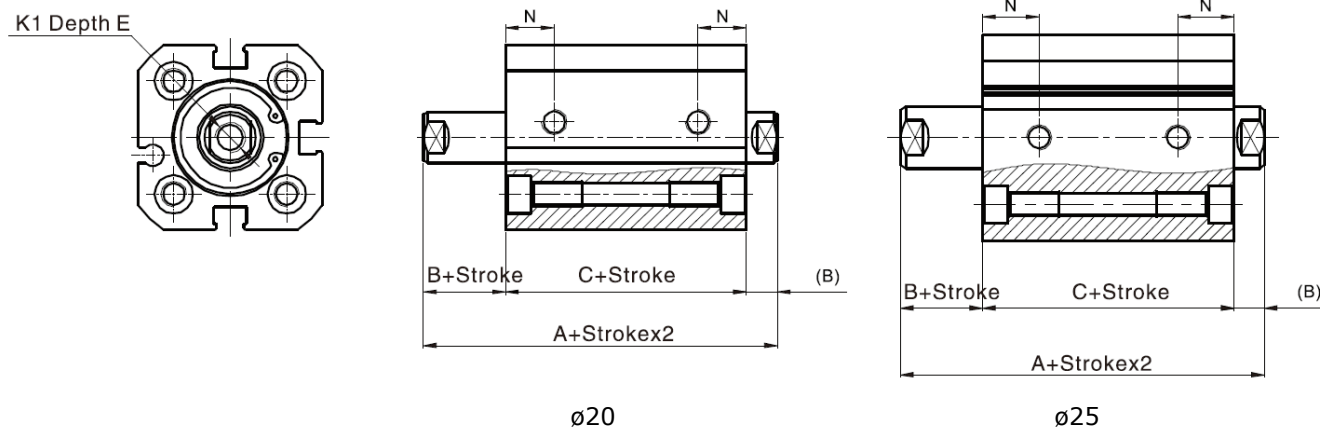
(mm)

Bore	A	C	N1	N2	B	D	E	M	K	O
50	53	45	16	10.5	8	65.5	16	6.5	M10x1.5	1/8"
63	57	49	17	11.5	8	77.5	16	6.5	M10x1.5	1/8"
80	64	54	17	15	10	95.5	21	8.5	M12x1.75	1/8"
100	77	67	24.5	19	10	113.5	21	8	M12x1.75	1/8"

Bore	P1	P2	P3	P4	S	T	X	V	W
50	$\varnothing 10.5$	M8x1.25	20	5	63	46.5	4	20	17
63	$\varnothing 10.5$	M8x1.25	20	5	74	56.5	5	20	17
80	$\varnothing 10.5$	M10x1.5	25	5	92	72	10	25	22
100	$\varnothing 10.5$	M10x1.5	25	5	109	89	14	32	27

Note: With magnet and without magnet, the dimensions are the same.

PVSF-D $\varnothing 20$, $\varnothing 25$

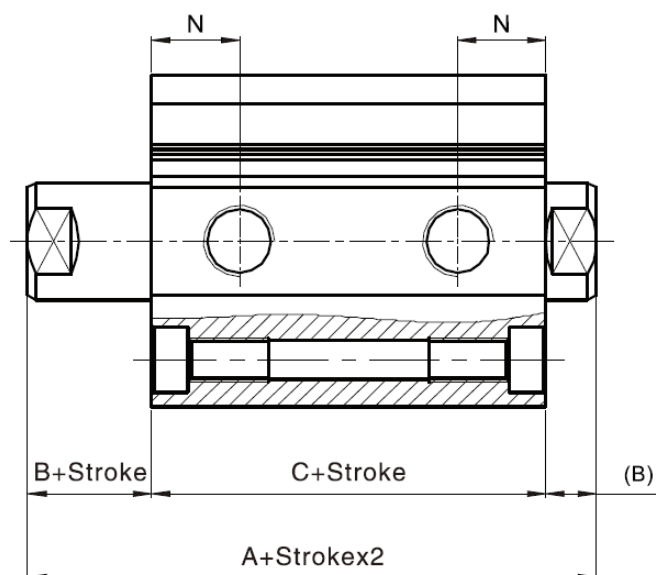
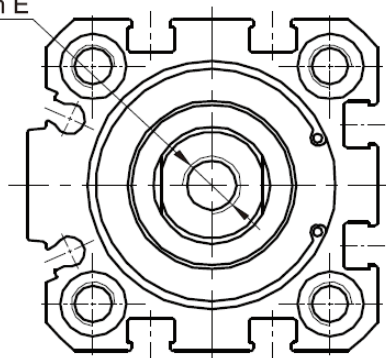


(mm)

Bore	A	B	C	N	K1	E
20	49	6	37	9.5	M6x1.0	10
25	51	6	39	11	M6x1.0	10

PVSF-D $\varnothing 32$, $\varnothing 40$

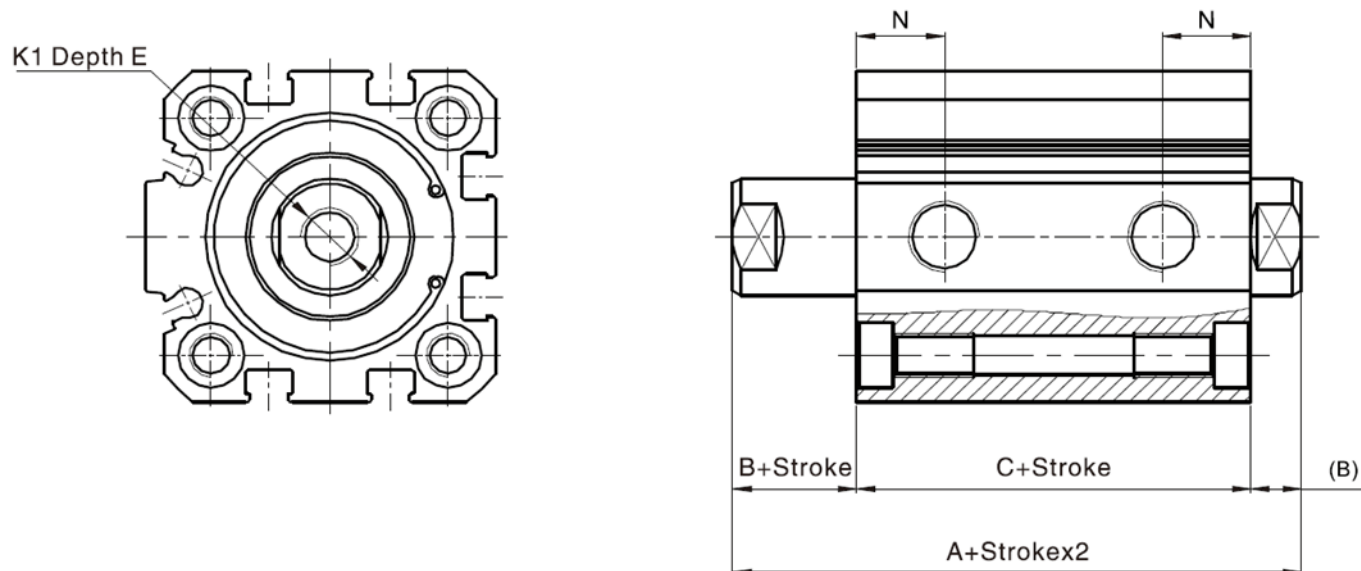
K1 Depth E



(mm)

Bore	A	B	C	N	K1	E
32	58	7	44	12	M8x1.25	12
40	59	7	45	13	M8x1.25	12

PVSF-D $\varnothing 50 \sim \varnothing 100$

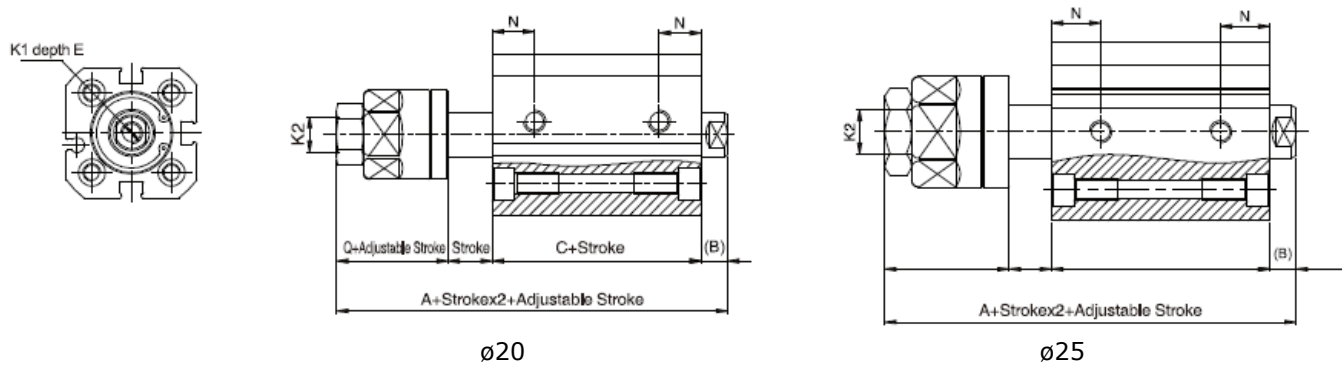


(mm)

Bore	A	B	C	N	K1	E
50	61	8	45	13.5	M10x1.5	12(5≤S<15)/16(S≥15)
63	65	8	49	16	M10x1.5	12(5≤S<15)/16(S≥15)
80	74	10	54	16	M12x1.75	14(10≤S<25)/21(S≥25)
100	87	10	67	20.5	M12x1.75	21

Note: Not marked dimensions are the same as standard type.

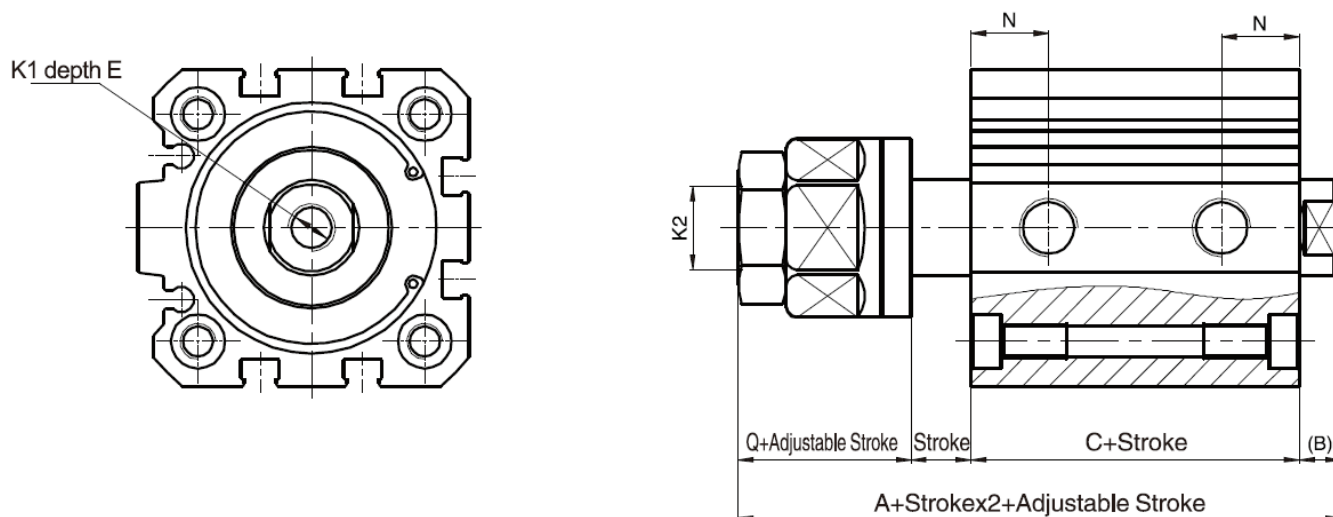
PVSF-J $\varnothing 20$, $\varnothing 25$



(mm)

Bore	A	B	C	Q	N	K1	E	K2
20	68	6	37	25	9.5	M6x1.0	10	M8x1.25
25	72.5	6	39	28	11	M6x1.0	10	M8x1.25

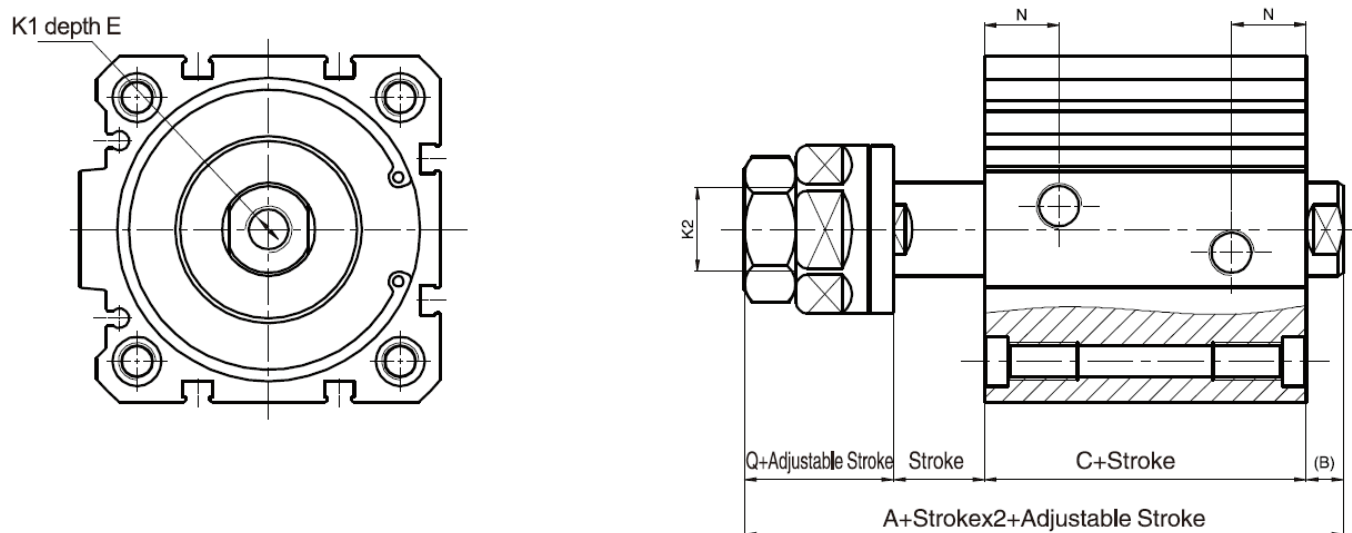
PVSF-J $\varnothing 32$, $\varnothing 40$



(mm)

Bore	A	B	C	Q	N	K1	E	K2
32	79	7	44	30	12	M8x1.25	12	M14x1.5
40	81	7	45	29	13	M8x1.25	12	M14x1.5

PVSF-J $\varnothing 50 \sim \varnothing 100$

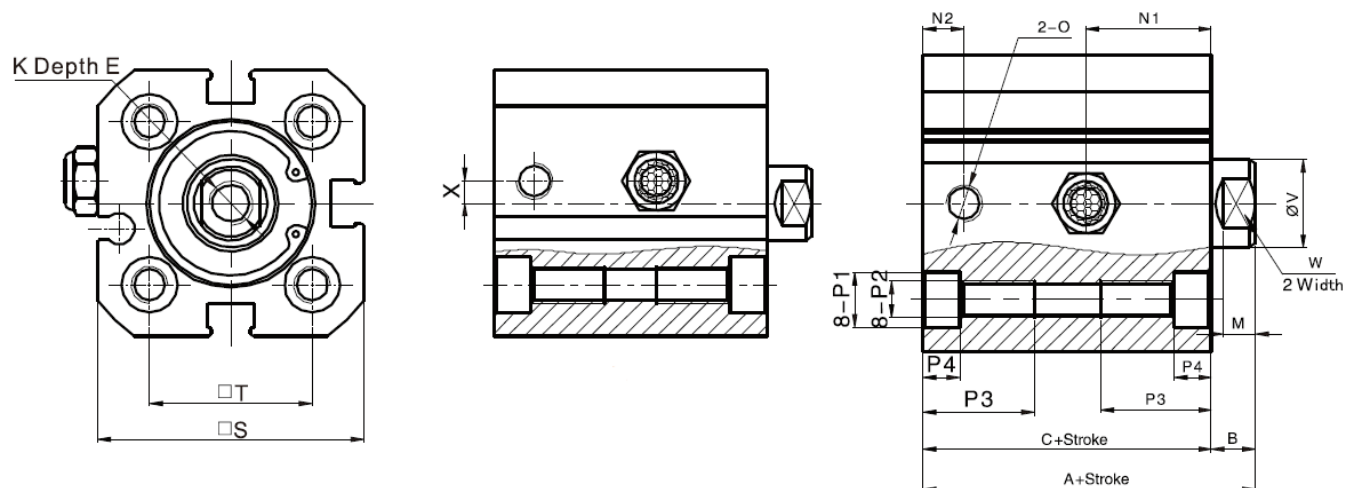


(mm)

Bore	A	B	C	Q	N	K1	E	K2
50	85	8	45	32	13.5	M10x1.5	12(5≤S<15)/16(S≥15)	M18x1.5
63	88.5	8	49	32	16	M10x1.5	12(5≤S<15)/16(S≥15)	M18x1.5
80	101	10	54	37	16	M12x1.75	14(10≤S<25)/21(S≥25)	M22x1.5
100	113.5	10	67	37	20.5	M12x1.75	21	M26x1.5

Note: Not marked dimensions are the same as standard type.

PVSF-SB $\varnothing 20$, $\varnothing 25$

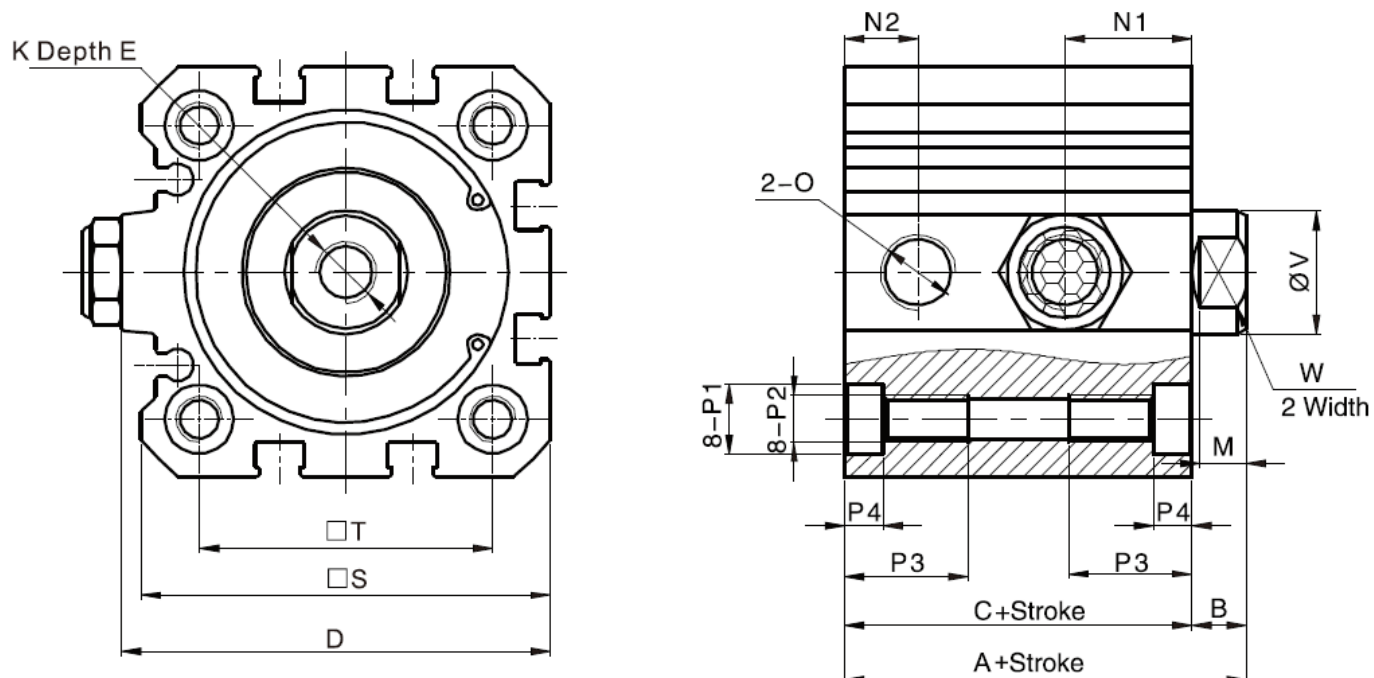


(mm)

Bore	A	C	N1	N2	B	E	M	K	O
20	43	37	15	5.5	6	10	4	M6x1.0	M5x0.8
25	45	39	17	5.5	6	10	4.5	M6x1.0	M5x0.8

Bore	P1	P2	P3	P4	S	T	X	V	W
20	$\varnothing 7.3$	M5x0.8	15	5	36	22	3	10	8
25	$\varnothing 7.3$	M5x0.8	15	5	40	26	-	12	10

PVSF-SB $\varnothing 32$, $\varnothing 40$

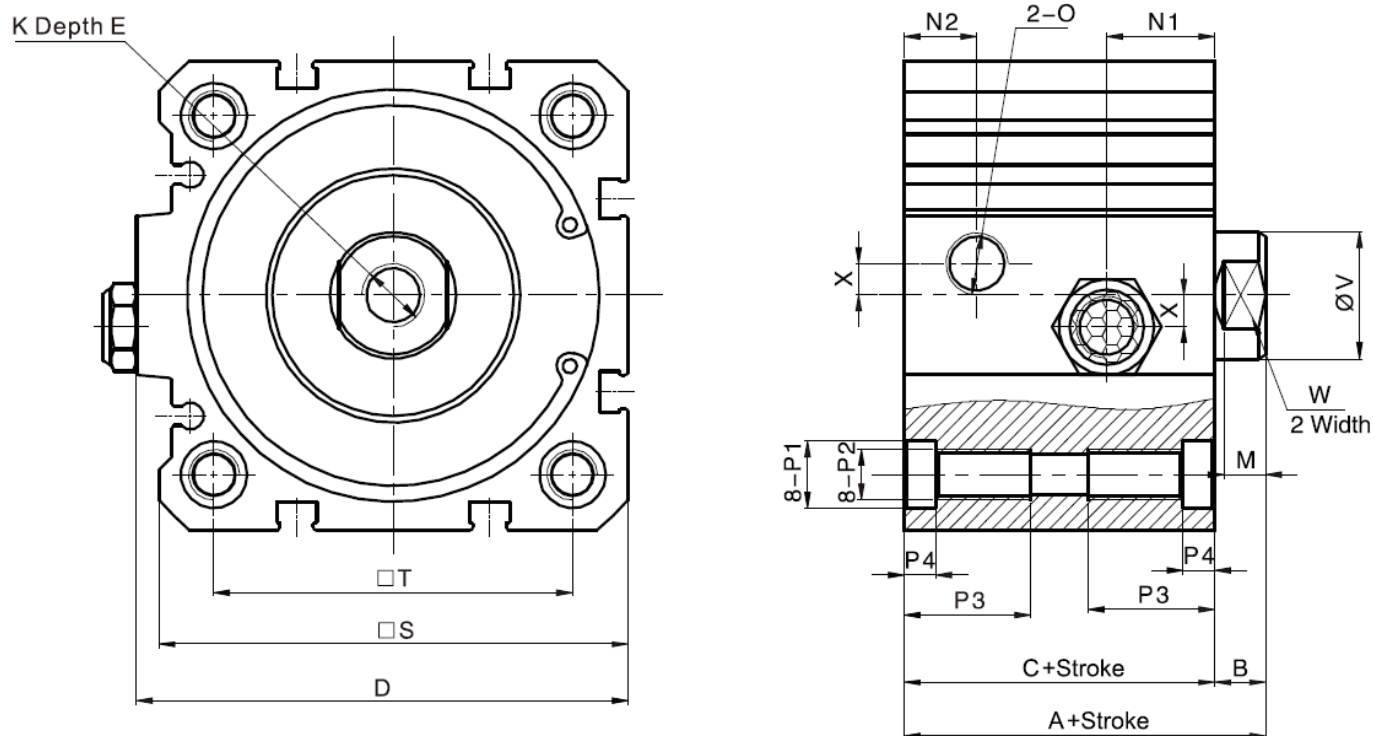


(mm)

Bore	A	C	N1	N2	B	D	E	M	K
32	51	44	15	8	7	48	12	6	M8x1.25
40	52	45	16.5	9.5	7	55.5	12	6	M8x1.25

Bore	O	P1	P2	P3	P4	S	T	V	W
32	1/8"	$\varnothing 9$	M6x1.0	16	5	45.5	32.5	16	14
40	1/8"	$\varnothing 9$	M6x1.0	16	5	53	38	16	14

PVSF-SB $\varnothing 50 \sim \varnothing 100$



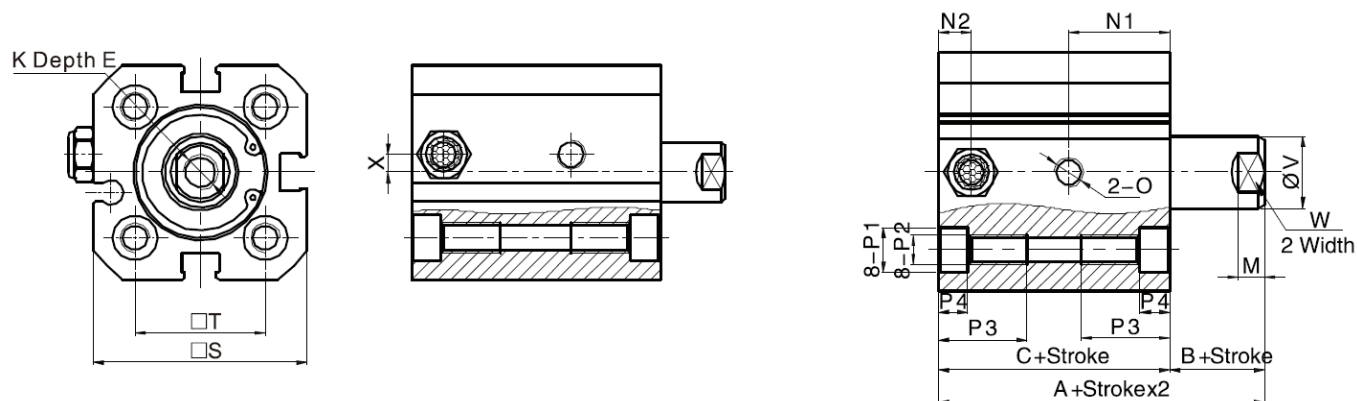
(mm)

Bore	A	C	N1	N2	B	D	E	M	K	O
50	53	45	16	10.5	8	65.5	16	6.5	M10x1.5	1/8"
63	57	49	17	11.5	8	77.5	16	6.5	M10x1.5	1/8"

Bore	P1	P2	P3	P4	S	T	X	V	W
50	$\varnothing 10.5$	M8x1.25	20	5	63	46.5	4	20	17
63	$\varnothing 10.5$	M8x1.25	20	5	74	56.5	5	20	17

Note: With magnet and without magnet, the dimensions are the same.

PVSF-A $\varnothing 20$, $\varnothing 25$

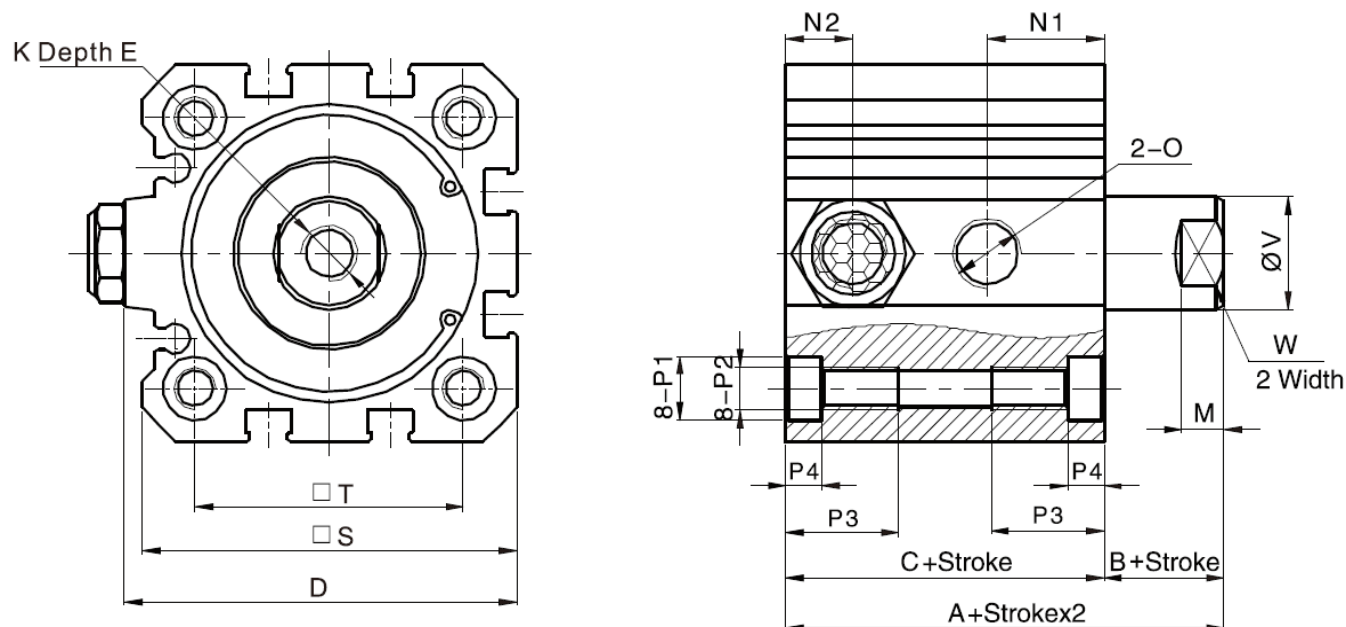


(mm)

Bore	A	C	N1	N2	B	E	M	K	O
20	43	37	15	5.5	6	10	4	M6x1.0	M5x0.8
25	45	39	17	5.5	6	10	4.5	M6x1.0	M5x0.8

Bore	P1	P2	P3	P4	S	T	X	V	W
20	$\varnothing 7.3$	M5x0.8	15	5	36	22	3	10	8
25	$\varnothing 7.3$	M5x0.8	15	5	40	26	-	12	10

PVSF-A $\varnothing 32$, $\varnothing 40$

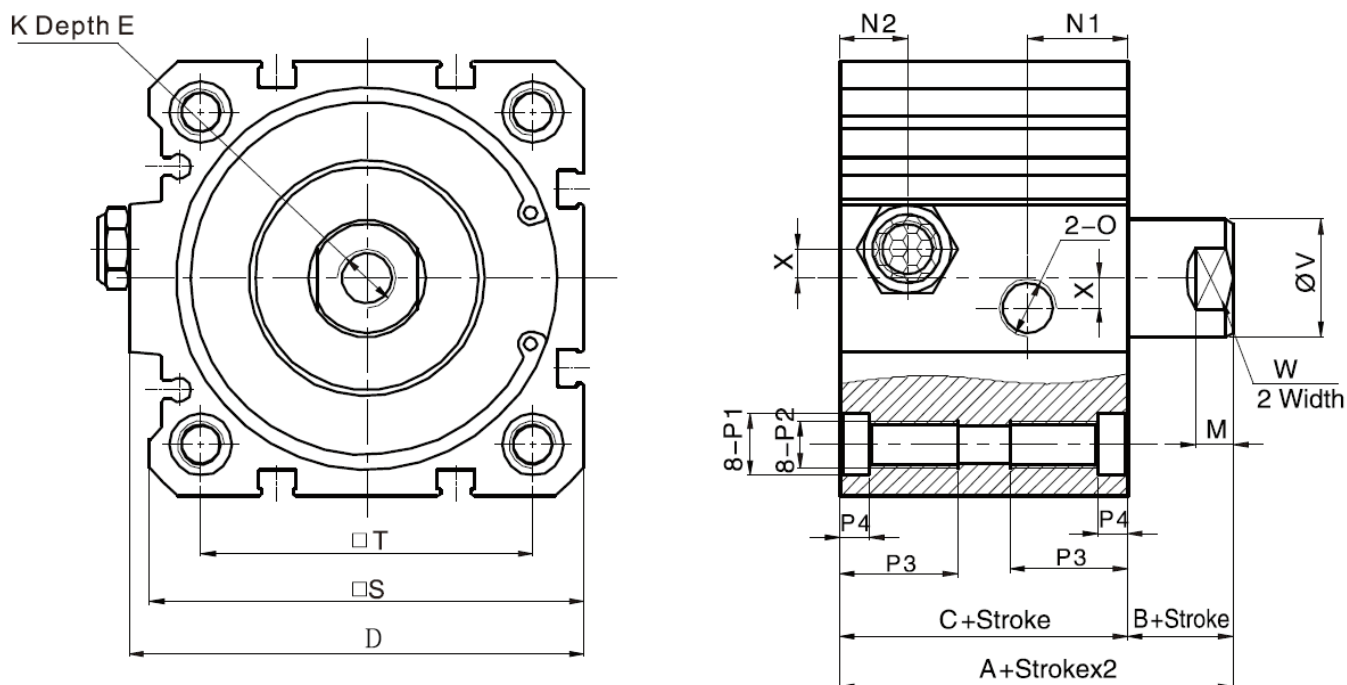


(mm)

Bore	A	C	N1	N2	B	D	E	M	K
32	51	44	15	8	7	48	12	6	M8x1.25
40	52	45	16.5	9.5	7	55.5	12	6	M8x1.25

Bore	O	P1	P2	P3	P4	S	T	V	W
32	1/8"	$\varnothing 9$	M6x1.0	16	5	45.5	32.5	16	14
40	1/8"	$\varnothing 9$	M6x1.0	16	5	53	38	16	14

PVSF-SB $\varnothing 50 \sim \varnothing 100$



(mm)

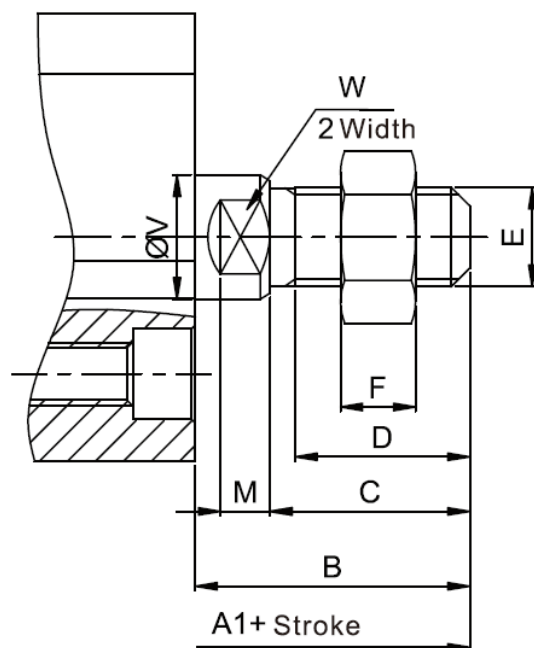
Bore	A	C	N1	N2	B	D	E	M	K	O
50	53	45	16	10.5	8	65.5	16	6.5	M10x1.5	1/8"
63	57	49	17	11.5	8	77.5	16	6.5	M10x1.5	1/8"

Bore	P1	P2	P3	P4	S	T	X	V	W
50	$\varnothing 10.5$	M8x1.25	20	5	63	46.5	4	20	17
63	$\varnothing 10.5$	M8x1.25	20	5	74	56.5	5	20	17

Note: With magnet and without magnet, the dimensions are the same.

Male Thread Dimension

PVSF, PVSF-D, PVSF-J, PVSF-B

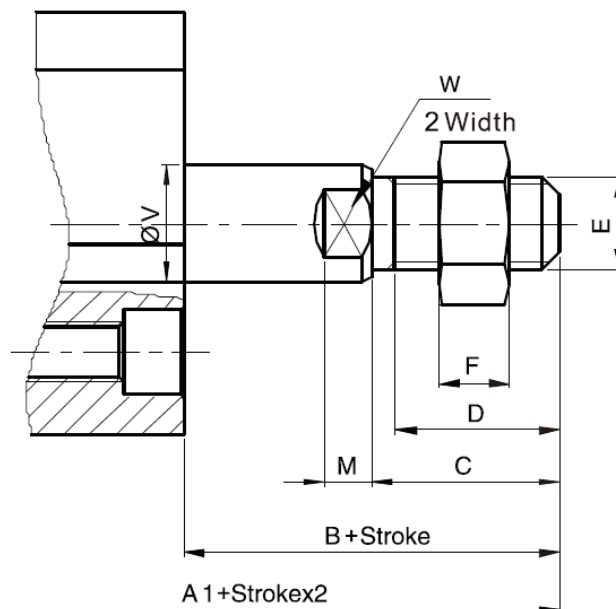


(mm)

Bore	A1	B	C	D	E	F	M	V	W
20	59	22	16	14	M8x1.25	6	4	10	8
25	61	22	16	14	M8x1.25	6	4.5	12	10
32	70	26	19	16.5	M10x1.25	6	6	16	14
40	71	26	19	16.5	M10x1.25	6	6	16	14
50	75	30	22	19.5	M12x1.25	7	6.5	20	17
63	79	30	22	19.5	M12x1.25	7	6.5	20	17
80	92	38	28	25	M16x1.5	8	8.5	25	22
100	105	38	28	25	M16x1.5	8	8	32	27

Note: For PVSF-SB cylinder, ø80 and ø100 are not optional.

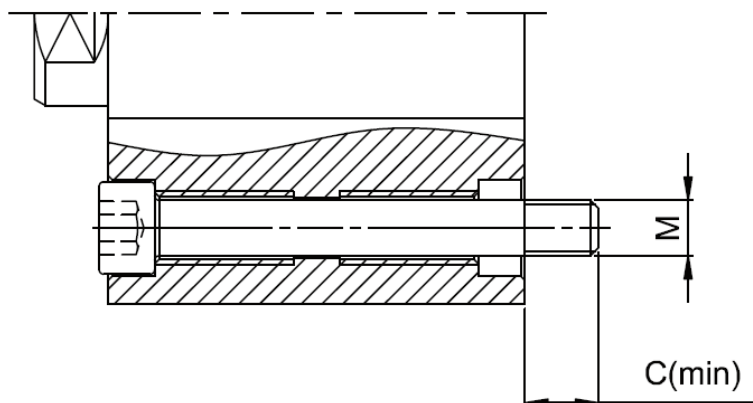
PVSF-A



(mm)

Bore	A1	B	C	D	E	F	M	V	W
20	59	22	16	14	M8x1.25	6	4	10	8
25	61	22	16	14	M8x1.25	6	4.5	12	10
32	70	26	19	16.5	M10x1.25	6	6	16	14
40	71	26	19	16.5	M10x1.25	6	6	16	14
50	75	30	22	19.5	M12x1.25	7	6.5	20	17
63	79	30	22	19.5	M12x1.25	7	6.5	20	17

Installation Note



(mm)

Bore	M	C
20	M4x0.7	6
25	M4x0.7	6
32	M5x0.8	7
40	M5x0.8	7
50	M6x1.0	9
63	M6x1.0	9
80	M8x1.25	12
100	M8x1.25	12