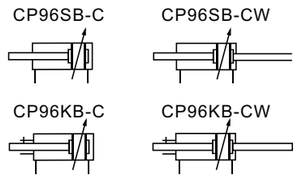
IS09001 CE
VPC PNEUMATIC®

CP96 Series ISO15552 Standard Cylinder







Ordering Code CP96 Series ISO15552 Standard Cylinder

CP96S	D	B	32	×	100	-	C	W
Series Code	Magnet	Mounting	Bore size		Stroke		Air cushion on both ends + Bumper cushion	Rod type

S: Standard cylinder
K: Non-rotating rod type

Nil: Without magnet
D: With magnet

B: Basic
L: Axial foot
F: Rod flange
G: Head flange
C: Single clevis
D: Double clevis

32: 32mm
40: 40mm
50: 50mm
63: 63mm
80: 80mm
100: 100mm

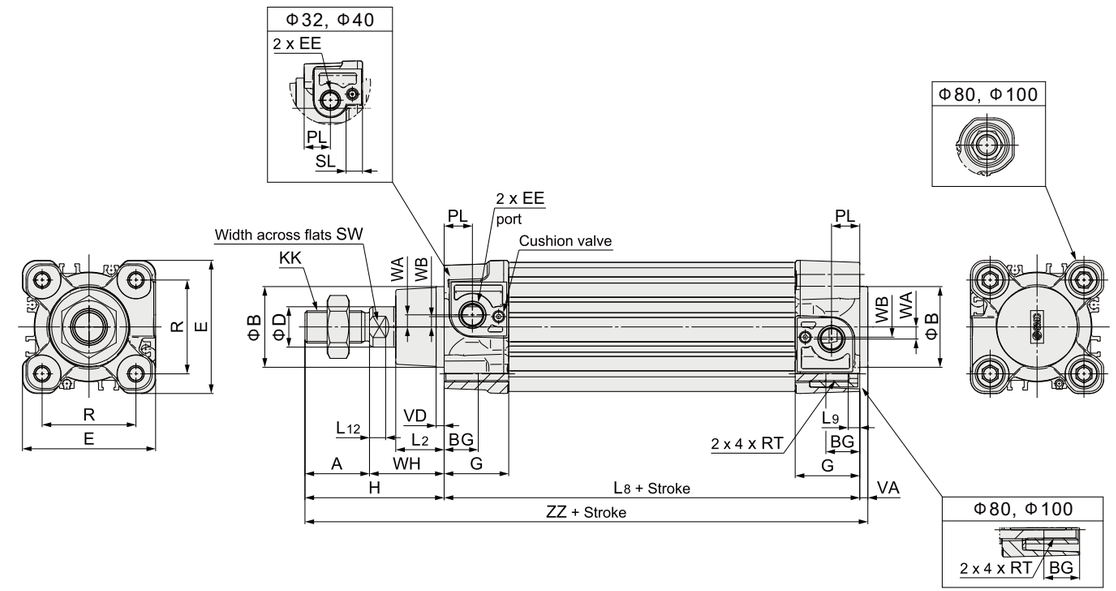
Blank: Single rod
W: Double rod

* Mounting brackets can be purchased separately.

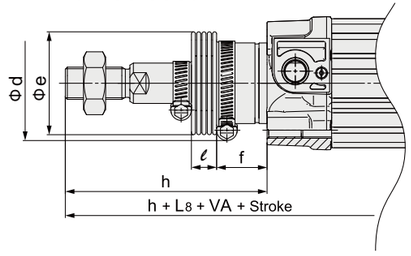
Specifications

Bore(mm)	32	40	50	63	80	100
Working medium	Clean air (40μm filteration)					
Acting type	Double acting					
Proof pressure	1.5MPa					
Max. Working pressure	1.0MPa					
Min. Working pressure	0.05MPa					
Working temperature	Without auto switch: -20 to 70℃ (No freezing) With auto switch: -10 to 60℃ (No freezing)					
Lubrication	Not required (Non-lube)					
Speed range	50 to 1000mm/s					
Stroke tolerance	Up to 500 stroke: $^{+2}_{0}$, 501 to 1000 stroke: $^{+2.4}_{0}$ 1001 to 1500 stroke: $^{+2.8}_{0}$, 1501 to 2000 stroke: $^{+3.2}_{0}$					
Cushion type	Air cushion on both ends + Bumper cushion					
Port size	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2
Mounting	Basic, Axial foot, Rod flange, Head flange, Single clevis, Double clevis					
Non-rotating accuracy	±0.5°		±0.5°		±0.3°	
Allowable rotational torque [N•m]	0.25	0.45	0.64		0.79	

Main Dimensions Basic Type



With rod boot*



(mm)

Bore	Stroke range		A	ΦB d11	BG	ΦD	E	EE	G	H	KK	L2	L8	L9	L12	PL	R	RT	SL	SW	VA	VD	WA	WB	WH	ZZ
	Without rod boot	With rod boot																								
32	Up to 2000	Up to 1000	22	30	16	12	47	G1/8	28.9	48	M10×1.25	15	94	4	6	13	32.5	M6×1	8	10	4	4	4	7	26	146
40	Up to 2000	Up to 1000	24	35	16	16	54	G1/4	32.6	54	M12×1.25	17	105	4	6.5	14	38	M6×1	8	13	4	4	5	8.9	30	163
50	Up to 2000	Up to 1000	32	40	16	20	66	G1/4	32	69	M16×1.5	24	106	5	8	14	46.5	M8×1.25	–	17	4	4	6	5.1	37	179
63	Up to 2000	Up to 1000	32	45	16	20	77	G3/8	38.6	69	M16×1.5	24	121	5	8	16	56.5	M8×1.25	–	17	4	4	9	6.3	37	194
80	Up to 2000	Up to 1000	40	45	17	25	99	G3/8	38.4	86	M20×1.5	30	128	–	10	16	72	M10×1.5	–	22	4	4	11.5	6	46	218
100	Up to 2000	Up to 1000	40	55	17	25	118	G1/2	42.9	91	M20×1.5	32	138	–	10	18	89	M10×1.5	–	22	4	4	17	10	51	233

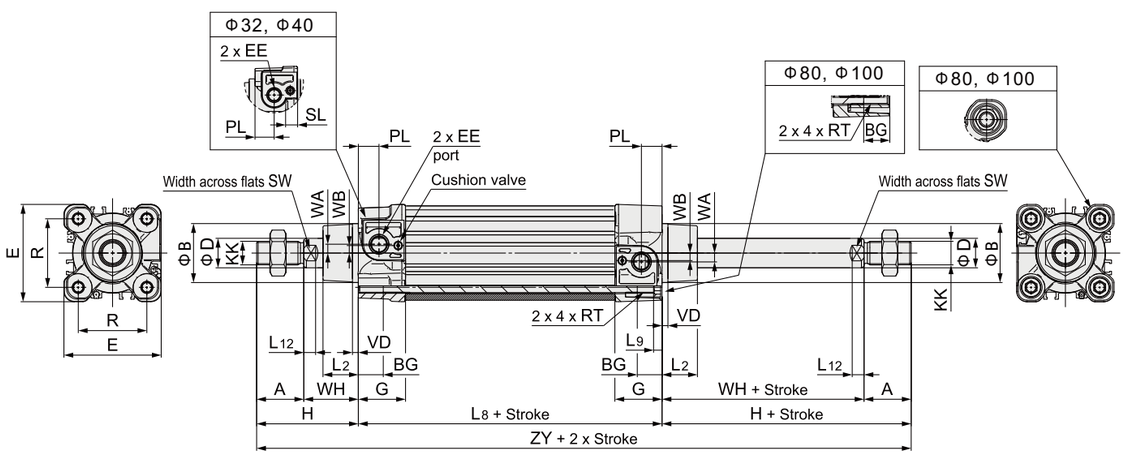
(mm)

Bore	H	Φd	Φe	f	ℓ												h											
					1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000
32	48	54	36	23	12.5	25	37.5	50	75	100	125	150	175	200	225	250	75	88	100	113	138	163	188	213	238	263	288	313
40	54	54	36	23	12.5	25	37.5	50	75	100	125	150	175	200	225	250	75	88	100	113	138	163	188	213	238	263	288	313
50	69	64	51	25	12.5	25	37.5	50	75	100	125	150	175	200	225	250	87	100	112	125	150	175	200	225	250	275	300	325
63	69	64	51	25	12.5	25	37.5	50	75	100	125	150	175	200	225	250	87	100	112	125	150	175	200	225	250	275	300	325
80	86	68	56	30	12.5	25	37.5	50	75	100	125	150	175	200	225	250	103	116	128	141	166	191	216	241	266	291	316	341
100	91	76	56	32	12.5	25	37.5	50	75	100	125	150	175	200	225	250	103	116	128	141	166	191	216	241	266	291	316	341

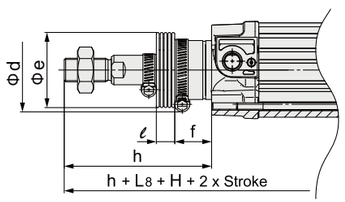
* Default without rod boot, if necessary, please contact VPC Pneumatic.

CP96 Series ISO15552 Standard Cylinder

Main Dimensions Double Shaft Type



With rod boot at one end*



(mm)

Bore	Stroke range	A	ΦB d11	ΦD	EE	PL	RT	L12	KK	SW	G	BG	L8	VD	WA	WB	WH	ZY	E	R	L2	L9	H	SL
32	Up to 1000	22	30	12	G1/8	13	M6×1	6	M10×1.25	10	28.9	16	94	4	4	7	26	190	47	32.5	15	4	48	8
40	Up to 1000	24	35	16	G1/4	14	M6×1	6.5	M12×1.25	13	32.6	16	105	4	5	8.9	30	213	54	38	17	4	54	8
50	Up to 1000	32	40	20	G1/4	14	M8×1.25	8	M16×1.5	17	32	16	106	4	6	5.1	37	244	66	46.5	24	5	69	–
63	Up to 1000	32	45	20	G3/8	16	M8×1.25	8	M16×1.5	17	38.6	16	121	4	9	6.3	37	259	77	56.5	24	5	69	–
80	Up to 1000	40	45	25	G3/8	16	M10×1.5	10	M20×1.5	22	38.4	17	128	4	11.5	6	46	300	99	72	30	–	86	–
100	Up to 1000	40	55	25	G1/2	18	M10×1.5	10	M20×1.5	22	42.9	17	138	4	17	10	51	320	118	89	32	–	91	–

(mm)

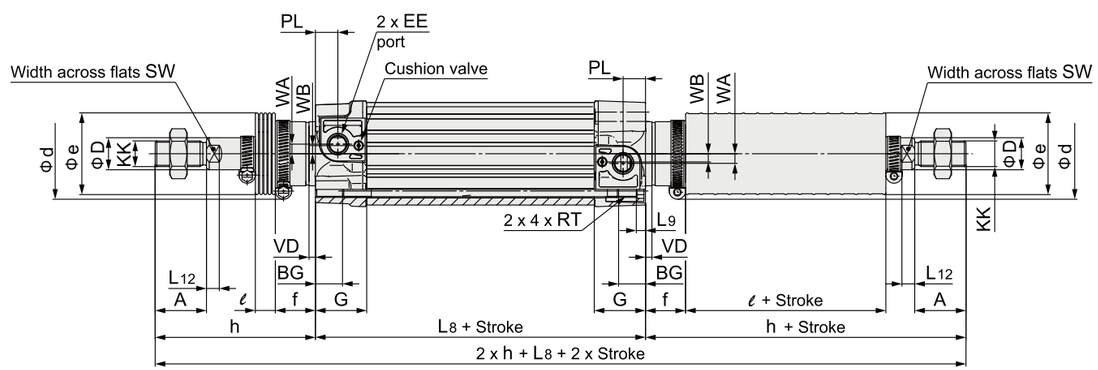
Bore	Φe	Φd	f	ℓ												h										
				1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000
32	36	54	23	12.5	25	37.5	50	75	100	125	150	175	200	225	250	75	88	100	113	138	163	188	213	238	263	288	313
40	36	54	23	12.5	25	37.5	50	75	100	125	150	175	200	225	250	75	88	100	113	138	163	188	213	238	263	288	313
50	51	64	25	12.5	25	37.5	50	75	100	125	150	175	200	225	250	87	100	112	125	150	175	200	225	250	275	300	325
63	51	64	25	12.5	25	37.5	50	75	100	125	150	175	200	225	250	87	100	112	125	150	175	200	225	250	275	300	325
80	56	68	30	12.5	25	37.5	50	75	100	125	150	175	200	225	250	103	116	128	141	166	191	216	241	266	291	316	341
100	56	76	32	12.5	25	37.5	50	75	100	125	150	175	200	225	250	103	116	128	141	166	191	216	241	266	291	316	341

* Default without rod boot, if necessary, please contact VPC Pneumatic.

CP96 Series ISO15552 Standard Cylinder

Main Dimensions Double Shaft Adjustable Stroke Type

With rod boot at both ends*



(mm)

Bore	Stroke range	A	ΦD	EE	PL	RT	L12	KK	SW	G	BG	L8	VD	WA	WB	E	R	L9	SL
32	Up to 1000	22	12	G1/8	13	M6×1	6	M10×1.25	10	28.9	16	94	4	4	7	47	32.5	4	8
40	Up to 1000	24	16	G1/4	14	M6×1	6.5	M12×1.25	13	32.6	16	105	4	5	8.9	54	38	4	8
50	Up to 1000	32	20	G1/4	14	M8×1.25	8	M16×1.5	17	32	16	106	4	6	5.1	66	46.5	5	–
63	Up to 1000	32	20	G3/8	16	M8×1.25	8	M16×1.5	17	38.6	16	121	4	9	6.3	77	56.5	5	–
80	Up to 1000	40	25	G3/8	16	M10×1.5	10	M20×1.5	22	38.4	17	128	4	11.5	6	99	72	–	–
100	Up to 1000	40	25	G1/2	18	M10×1.5	10	M20×1.5	22	42.9	17	138	4	17	10	118	89	–	–

(mm)

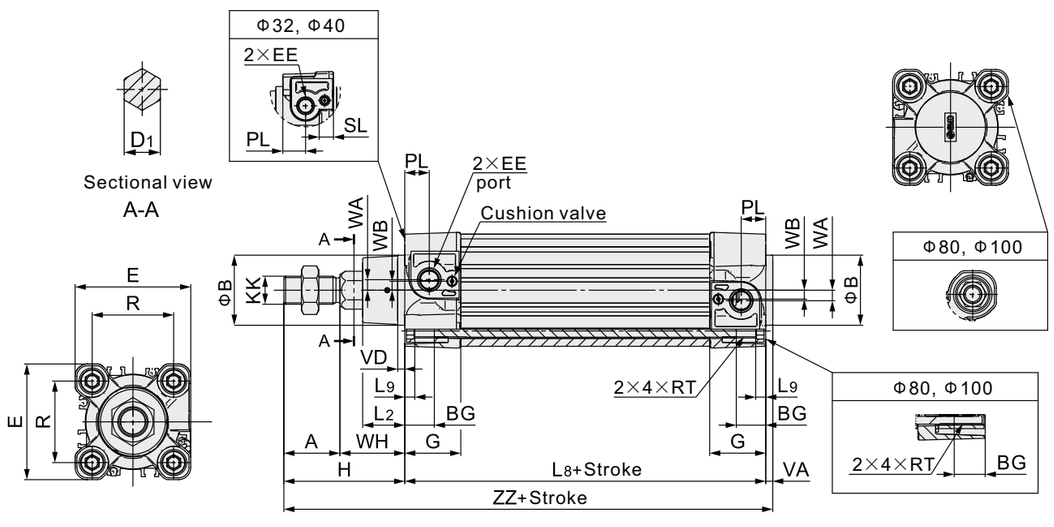
Bore	Φe	Φd	f	ℓ												h										
				1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000	1 to 50	51 to 100	101 to 150	151 to 200	201 to 300	301 to 400	401 to 500	501 to 600	601 to 700	701 to 800	801 to 900	901 to 1000
32	36	54	23	12.5	25	37.5	50	75	100	125	150	175	200	225	250	75	88	100	113	138	163	188	213	238	263	288	313
40	36	54	23	12.5	25	37.5	50	75	100	125	150	175	200	225	250	75	88	100	113	138	163	188	213	238	263	288	313
50	51	64	25	12.5	25	37.5	50	75	100	125	150	175	200	225	250	87	100	112	125	150	175	200	225	250	275	300	325
63	51	64	25	12.5	25	37.5	50	75	100	125	150	175	200	225	250	87	100	112	125	150	175	200	225	250	275	300	325
80	56	68	30	12.5	25	37.5	50	75	100	125	150	175	200	225	250	103	116	128	141	166	191	216	241	266	291	316	341
100	56	76	32	12.5	25	37.5	50	75	100	125	150	175	200	225	250	103	116	128	141	166	191	216	241	266	291	316	341

* Default without rod boot, if necessary, please contact VPC Pneumatic.

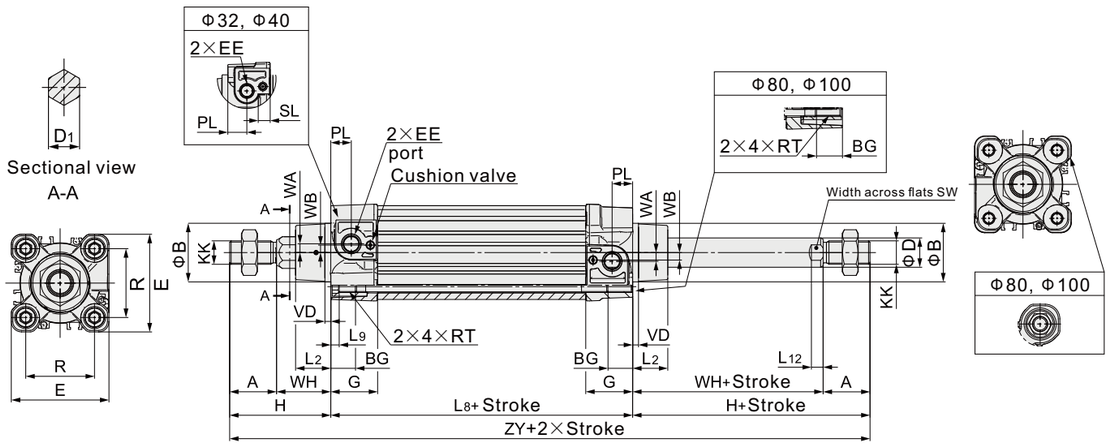
IS09001 CE

CP96 Series ISO15552 Standard Cylinder

Main Dimensions Single Shaft Non-rotating Rod Type



Double Shaft Non-rotating Rod Type



(mm)

Bore	Stroke range	A	ΦB d11	D1	ΦD	EE	PL	RT	L12	KK	SW	G	BG	L8	VD	VA	WA	WB	WH	ZZ	ZY	E	R	L2	L9	H	SL
32	Up to 500	22	30	12.2	12	G1/8	13	M6×1	6	M10×1.25	10	28.9	16	94	4	4	4	7	26	146	190	47	32.5	15	4	48	8
40	Up to 500	24	35	14.2	16	G1/4	14	M6×1	6.5	M12×1.25	13	32.6	16	105	4	4	5	8.9	30	163	213	54	38	17	4	54	8
50	Up to 600	32	40	19	20	G1/4	14	M8×1.25	8	M16×1.5	17	32	16	106	4	4	6	5.1	37	179	244	66	46.5	24	5	69	–
63	Up to 600	32	45	19	20	G3/8	16	M8×1.25	8	M16×1.5	17	38.6	16	121	4	4	9	6.3	37	194	259	77	56.5	24	5	69	–
80	Up to 800	40	45	23	25	G3/8	16	M10×1.5	10	M20×1.5	22	38.4	17	128	4	4	11.5	6	46	218	300	99	72	30	–	86	–
100	Up to 800	40	55	23	25	G1/2	18	M10×1.5	10	M20×1.5	22	42.9	17	138	4	4	17	10	51	233	320	118	89	32	–	91	–