

# Compact Cylinder P10S-7 Series



Standard/P10S-7	_____	P. 221
$\phi 12, \phi 16, \phi 20, \phi 25, \phi 32, \phi 40, \phi 50, \phi 63, \phi 80, \phi 100$		
Double Acting Double Rod/P10S-7D	_____	P. 234
$\phi 12, \phi 16, \phi 20, \phi 25, \phi 32, \phi 40, \phi 50, \phi 63, \phi 80, \phi 100$		
Single Acting Single Rod/P10S-7SR(SH)	_____	P. 243
$\phi 12, \phi 16, \phi 20, \phi 25, \phi 32, \phi 40, \phi 50$		
Accessory	_____	P. 266
Order Made Type	_____	P. 273
Non-Rotating Cylinder, 3-Position Cylinder, 4-Position Cylinder, Adjustable Stroke Cylinder		
Big Bore Size/10S-6	_____	P. 281
$\phi 125, \phi 140, \phi 160$		

# Compact Cylinder / P10S-7 Series

Bore : Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



## Bore

Ø 12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 32	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 50	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ø 63	<input type="radio"/>	<input type="radio"/>	
Ø 80	<input type="radio"/>	<input type="radio"/>	
Ø 100	<input type="radio"/>	<input type="radio"/>	

## Cushion

Bumper Cushion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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## Mounting

Standard(Through-hole and Ends tapped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Side Luge Foot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
End Angles Foot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flange (Head side)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flange (Cap side)	<input type="radio"/>		<input type="radio"/>
Single Clevis	<input type="radio"/>		<input type="radio"/>
Double Clevis	<input type="radio"/>		<input type="radio"/>

## Sensor type

Reed type	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solid type	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

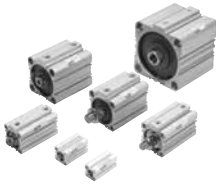
Accessories      ●Y Knuckle   ●I Knuckle

Order Made      ●3 Position cylinder   ●4 Position cylinder   ●Adjustable Stroke cylinder   ●None-Rotating Cylinder



# Compact Cylinder

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



## Specifications

Acting	Unit	Double Acting
Fluid		Air
Operating Pressure Range	Mpa	Ø12 ~ Ø32 : 0.1 ~ 1
		Ø40 ~ Ø100 : 0.05 ~ 1
Proof Pressure	Mpa	1.5
Operating Temperature	℃	with sensor : 0 ~ 60
		without sensor : -10 ~ 70
Piston Speed	mm/s	Ø12 ~ Ø40 : 30 ~ 500
		Ø50 ~ Ø100 : 30 ~ 300
Cushion		Ø12, Ø16 : None Cushion
		Ø20 ~ Ø100 : Bumper Cushion
Stroke Tolerance		Ø20 ~ Ø100 : $^{+0.05}_{-0}$

Note) The mounting bracket apply to the bore Ø32~Ø100.

## Standard Stroke

Type	Bore	Standard Stroke(mm)																	
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100
Double Acting	Ø 12	○	○	○	○	○	○												
	Ø 16	○	○	○	○	○	○												
	Ø 20	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
	Ø 25	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
	Ø 32	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Ø 40	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Ø 50		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Ø 63		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Ø 80		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Ø 100		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

### Note) • Intermediate Stroke

The intermediate stroke is manufactured by bring collars closer each other.

Ex) P10S-7ST040N33N will be manufactured by 2mm collar in 35mm stroke tube.

• For longer stroke than standard, please contact PARKER.

• Avoid use of a cylinder in such a manner that eccentric load applies to the cylinder. When use of mounting accessories of rotary type in particular, be sure to consult PARKER in advance.

# Standard P10S-7 Series

## Theoretical Output

(Unit : N)

Bore (mm)	Rod Dia. (mm)	Direction	Pressure ( Mpa )									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Ø 12	Ø 6	Extended	11.3	22.6	33.9	45.2	56.5	67.9	79.2	90.5	102	113
		Retracted	8.5	17.0	25.4	33.9	42.4	50.9	59.4	67.9	76.3	84.8
Ø 16	Ø 8	Extended	20.1	40.2	60.3	80.4	101	121	141	161	181	201
		Retracted	15.1	30.2	45.2	60.3	75.4	90.5	106	121	136	151
Ø 20	Ø 10	Extended	31.4	62.8	94.2	126	157	188	220	251	283	314
		Retracted	23.6	47.1	70.7	94.2	118	141	165	188	212	236
Ø 25	Ø 12	Extended	49.1	98.2	147	196	245	295	344	393	442	491
		Retracted	37.8	82.4	124	165	206	247	288	330	371	412
Ø 32	Ø 16	Extended	80.4	161	241	322	402	483	563	643	724	804
		Retracted	60.3	121	181	241	302	362	422	483	543	603
Ø 40	Ø 16	Extended	126	251	377	503	628	754	880	1005	1131	1257
		Retracted	106	211	317	422	528	633	739	844	950	1055
Ø 50	Ø 20	Extended	196	393	589	785	982	1178	1374	1571	1767	1963
		Retracted	165	330	495	660	825	990	1155	1319	1484	1649
Ø 63	Ø 20	Extended	312	623	935	1247	1559	1870	2182	2494	2806	3117
		Retracted	280	561	841	1121	1402	1682	1962	2242	2523	2803
Ø 80	Ø 25	Extended	503	1005	1508	2011	2513	3016	3519	4021	4524	5027
		Retracted	454	907	1361	1814	2268	2721	3175	3629	4082	4536
Ø 100	Ø 30	Extended	785	1571	2356	3142	3927	4712	5498	6283	7069	7854
		Retracted	715	1429	2144	2859	3574	4288	5003	5718	6432	7147

Note) Double Acting : Effective output = Theoretical Output × 0.85

## Weight

### Double Acting(None Magnet)

(Unit : g)

Bore (mm)	Basic Weight	Additional Weight per stroke of 1mm	Mounting Weight				
			Side Luge Foot	End Angles Foot	Flange	Single Clevis	Double Clevis
Ø 12	22	1.3	—	—	—	—	—
Ø 16	30	1.7	—	—	—	—	—
Ø 20	58	2.5	—	—	—	—	—
Ø 25	78	3.2	—	—	—	—	—
Ø 32	100	4.1	96	84	210	145	165
Ø 40	176	4.9	110	100	275	205	220
Ø 50	276	7.4	160	150	415	275	380
Ø 63	437	8.6	260	240	560	375	505
Ø 80	875	13.8	520	500	1515	890	1100
Ø 100	1554	18.9	590	580	1950	1090	1360

### Double Acting(Built in Magnet)

(Unit : g)

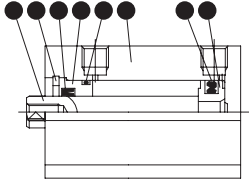
Bore (mm)	Basic Weight	Additional Weight per stroke of 1mm	Mounting Weight				
			Side Luge Foot	End Angles Foot	Flange	Single Clevis	Double Clevis
Ø 12	28.6	1.3	—	—	—	—	—
Ø 16	40	1.7	—	—	—	—	—
Ø 20	86	2.5	—	—	—	—	—
Ø 25	116	3.2	—	—	—	—	—
Ø 32	151	4.1	96	84	210	145	165
Ø 40	248	4.9	110	100	275	205	220
Ø 50	385	7.4	160	150	415	275	380
Ø 63	593	8.6	260	240	560	375	505
Ø 80	1122	13.8	520	500	1515	890	1100
Ø 100	1845	18.9	590	580	1950	1090	1360

# Compact Cylinder

## Constructions and Parts

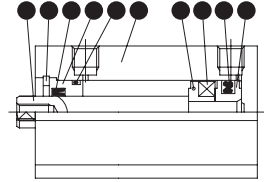
Double Acting(None Magnet)

- Bore  $\varnothing 12, \varnothing 16$

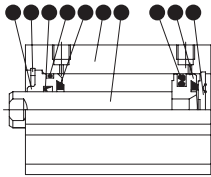


Double Acting(Built in Magnet)

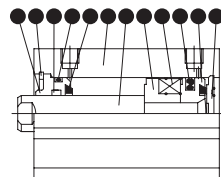
- Bore  $\varnothing 12, \varnothing 16$



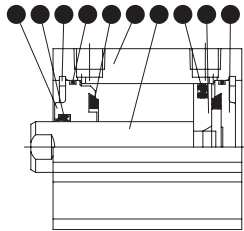
- Bore  $\varnothing 20, \varnothing 25, \varnothing 32$



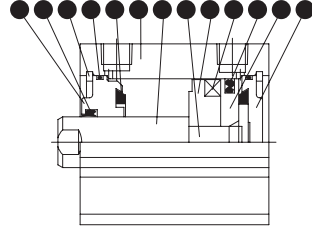
- Bore  $\varnothing 20, \varnothing 25, \varnothing 32$



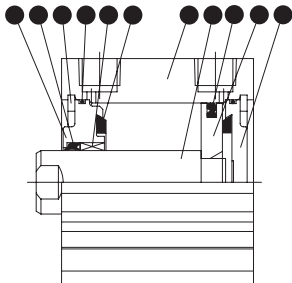
- Bore  $\varnothing 40, \varnothing 50, \varnothing 63$



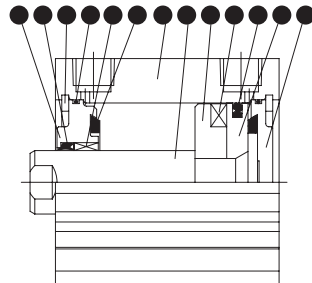
- Bore  $\varnothing 40, \varnothing 50, \varnothing 63$



- Bore  $\varnothing 80, \varnothing 100$



- Bore  $\varnothing 80, \varnothing 100$



# Standard P10S-7 Series

## Main Parts

NO	Part Name	Material	
1	Body	AL alloy	
2	Rod Cover	AL alloy	
3	Head Cover	AL alloy	
4	Piston	AL alloy	
5	Piston Rod	Ø32~Ø100	Carbon Steel
		Ø12~Ø25	Stainless Steel
6	Magnet Cover	AL alloy	
7	Cushion Pad	Urethane	
8	Stop Ring	Carbon Steel	
9	Piston packing	Rubber	
10	Rod Packing	Rubber	
11	O-ring	Rubber	
12	Magnet		
13	Bush		

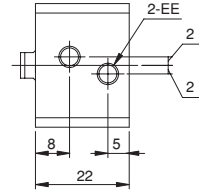
# Compact Cylinder

## Dimensions

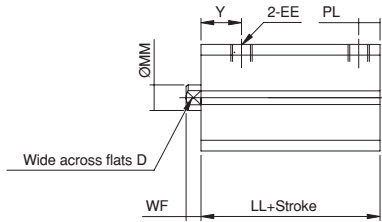
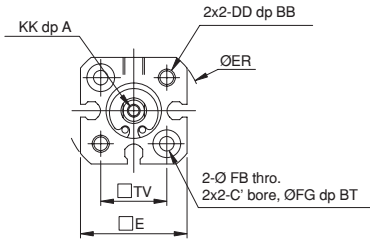
(Unit : mm)

### Basic (None Magnet)

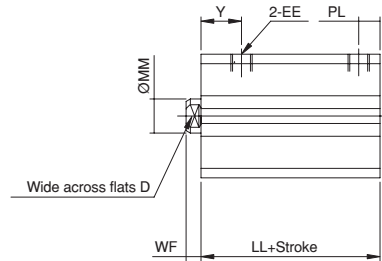
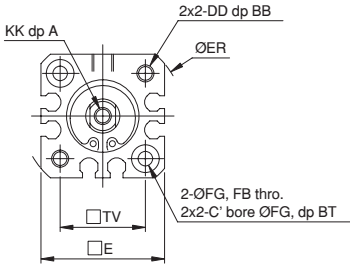
- Bore :  $\varnothing 12$



Stroke 5mm



- Bore :  $\varnothing 16$



Stroke 10~30 over

Bore	A	BB	BT	D	DD	E	EE	ER	FB	FG	KK	LL	MM
$\varnothing 12$	6	8	3.5	5	M4X0.7	25	M5X0.8	32	3.4	6.5	M3X0.5	17	6
$\varnothing 16$	8	8	3.5	6	M4X0.7	29	M5X0.8	38	3.4	6.5	M4X0.7	17	8

Bore	PL		TV	WF	Y	
	5st	10st over			5st	10st over
$\varnothing 12$	5	5	15.5	3.5	8	9.5
$\varnothing 16$	5	5	20	3.5	8	9.5



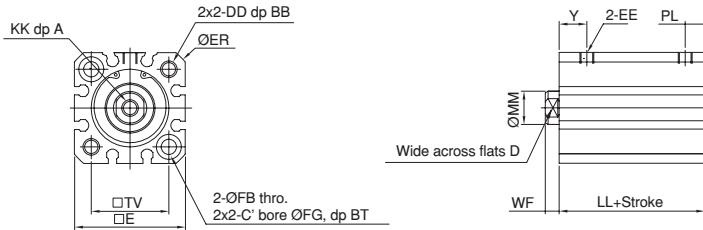
# Standard P10S-7 Series

## Dimensions

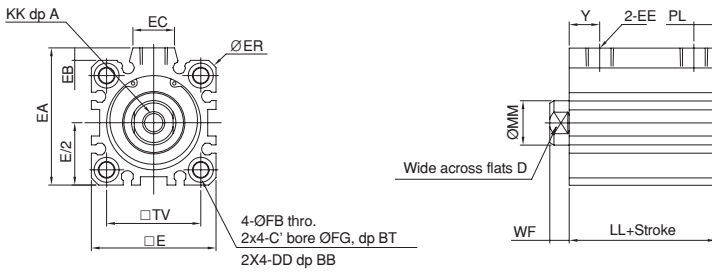
(Unit : mm)

### Basic (None Magnet)

- Bore :  $\varnothing 20 \sim \varnothing 25$



- Bore :  $\varnothing 32 \sim \varnothing 100$



Bore	A	BB	BT	D	DD	E	EA	EB	EC	EE	ER	FB	FG
$\varnothing 20$	7	10	5.4	8	M6X1	36	-	-	-	M5X0.8	47	5.5	9
$\varnothing 25$	12	10	5.4	10	M6X1	40	-	-	-	M5X0.8	52	5.5	9
$\varnothing 32$	13	12	5.4	14	M6X1	45	49.5	4.5	15	Rc1/8	60	5.5	9
$\varnothing 40$	13	12	5.4	14	M6X1	52	57	5	17.5	Rc1/8	69	5.5	9
$\varnothing 50$	15	14	8	17	M8X1.25	64	71	7	19	Rc1/4	85	6.6	11
$\varnothing 63$	15	18	10.5	17	M10X1.5	77	84	7	19	Rc1/4	102	9	14
$\varnothing 80$	21	22	13.5	22	M12X1.75	98	104	6	25	Rc3/8	130	11	17.5
$\varnothing 100$	27	22	13.5	27	M12X1.75	117	123.5	6.5	25	Rc3/8	156	11	17.5

Bore	KK	LL	MM	PL		TV	WF	Y	
				5st	10st over			5st	10st over
$\varnothing 20$	M5X0.8	21.5	10	6	7	25.5	4.5	9	10
$\varnothing 25$	M6X1	22.5	12	6	7	28	5	9	10
$\varnothing 32$	M8X1.25	23	16	6	8	34	7	10	11
$\varnothing 40$	M8X1.25	29.5	16	10	11.5	40	7	10	11.5
$\varnothing 50$	M10X1.5	30.5	20	-	12	50	8	-	12
$\varnothing 63$	M10X1.5	36	20	-	14.5	60	8	-	14.5
$\varnothing 80$	M16X2	43.5	25	-	16.5	77	10	-	16.5
$\varnothing 100$	M20X2.5	53	30	-	21	94	12	-	21

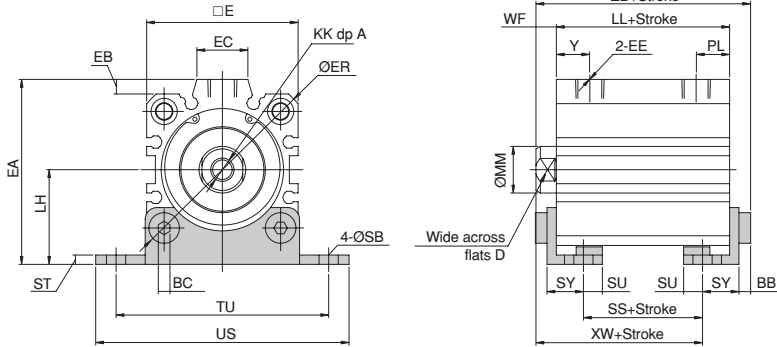
# Compact Cylinder

## Dimensions

(Unit : mm)

### Side Luge Foot / LA(Non Magnet)

●Bore :  $\varnothing 32 \sim \varnothing 100$



Note) ● P10S-7LA032N005 and P10S-7LA080N010 are not available.  
(Accessories will interfere, unless there is a stroke of at least 10 for  $\varnothing 32$  and 15 for  $\varnothing 80$ )

Bore	A	BB	BC	D	E	EA	EB	EC	EE	ER	KK	LH	LL	MM	SB
$\varnothing 32$	13	4	4	14	45	55.5	4.5	15	Rc1/8	60	M8X1.25	28.5	23	16	6.6
$\varnothing 40$	13	4	4	14	52	63.5	5	17.5	Rc1/8	69	M8X1.25	32.5	29.5	16	6.6
$\varnothing 50$	15	5	5	17	64	77	7	19	Rc1/4	85	M10X1.5	38	30.5	20	9
$\varnothing 63$	15	6	6	17	77	90	7	19	Rc1/4	102	M10X1.5	44.5	36	20	11
$\varnothing 80$	21	7	8	22	98	113.5	6	25	Rc3/8	130	M16X2	58.5	43.5	25	14
$\varnothing 100$	27	7	8	27	117	132	6.5	25	Rc3/8	156	M20X2.5	67	53	30	14

Bore	SS	ST	SU	SY	TU	US	WF	XW	PL		Y		ZB
									5st	10st over	5st	10st over	
$\varnothing 32$	4.4	3.2	6.5	12.5	65	78	7	20.7	-	8	-	11	37.2
$\varnothing 40$	10.9	3.2	6.5	12.5	73	87	7	27.2	10	11.5	10	11.5	43.7
$\varnothing 50$	8.9	3.2	8	14	87	103	8	27.7	-	12	-	12	46.7
$\varnothing 63$	11.4	3.2	9.5	15.5	109	127	8	31.7	-	14.5	-	14.5	53.2
$\varnothing 80$	10.5	4.5	11	21	123	145	10	37	-	16.5	-	16.5	65
$\varnothing 100$	20	4.5	11	21	137	159	12	48.5	-	21	-	21	76.5

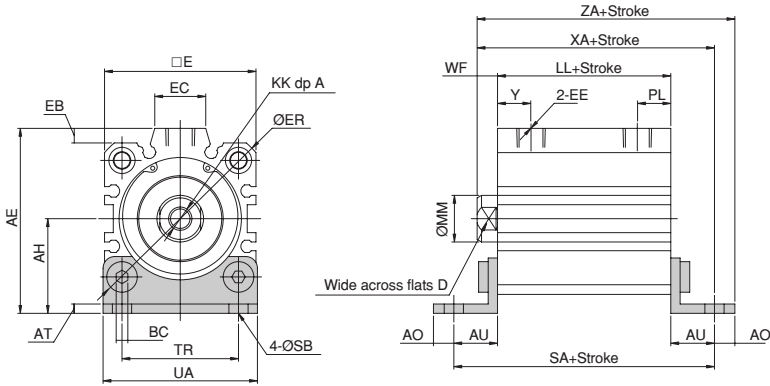
# Standard P10S-7 Series

## Dimensions

(Unit : mm)

### End Angels Foot / LB(None Magnet)

- Bore :  $\varnothing 32 \sim \varnothing 100$



Bore	A	AE	AH	AO	AT	AU	BC	D	E	EB	EC	EE	ER	KK	LL
$\varnothing 32$	13	55.5	28.5	7	3.2	15	4	14	45	4.5	15	Rc1/8	60	M8X1.25	23
$\varnothing 40$	13	63.5	32.5	7	3.2	15	4	14	52	5	17.5	Rc1/8	69	M8X1.25	29.5
$\varnothing 50$	15	77	38	9	3.2	18	5	17	64	7	19	Rc1/4	85	M10X1.5	30.5
$\varnothing 63$	15	90	44.5	11	3.2	20	6	17	77	7	19	Rc1/4	102	M10X1.5	36
$\varnothing 80$	21	113.5	58.5	14	4.5	25	8	22	98	6	25	Rc3/8	130	M16X2	43.5
$\varnothing 100$	27	132	67	14	4.5	25	8	27	117	6.5	25	Rc3/8	156	M20X2.5	53

Bore	MM	SA	SB	TR	UA	WF	XA	PL		Y		ZA
								5st	10st over	5st	10st over	
$\varnothing 32$	16	53	6.6	34	45	7	45	6	8	10	11	52
$\varnothing 40$	16	59.5	6.6	40	53	7	51.5	10	11.5	10	11.5	58.5
$\varnothing 50$	20	66.5	9	50	64	8	56.5	-	12	-	12	65.5
$\varnothing 63$	20	76	11	60	77	8	64	-	14.5	-	14.5	75
$\varnothing 80$	25	93.5	14	77	100	10	78.5	-	16.5	-	16.5	92.5
$\varnothing 100$	30	103	14	94	117	12	90	-	21	-	21	104

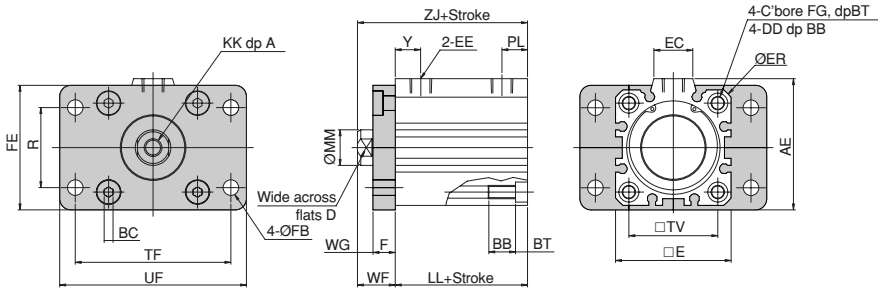
# Compact Cylinder

## Dimensions

(Unit : mm)

### Flange-Head Side / FA(Non Magnet)

●Bore : Ø32 ~ Ø100



Bore	A	AE	BB	BC	BT	D	DD	E	EC	EE	ER	F	FB	FE	FG
Ø32	13	51	12	4	5.4	14	M6X1	45	15	Rc1/8	60	8	7	48	9
Ø40	13	59	12	4	5.4	14	M6X1	52	17.5	Rc1/8	69	10	7	56	9
Ø50	15	74	14	5	8	17	M8X1.25	64	19	Rc1/4	85	10	9	70	11
Ø63	15	87.5	18	6	10.5	17	M10X1.5	77	19	Rc1/4	102	10	9	84	14
Ø80	21	107.5	22	8	13.5	22	M12X1.75	98	25	Rc3/8	130	16	12	105	17.5
Ø100	27	125.5	22	8	13.5	27	M12X1.75	117	25	Rc3/8	156	16	12	121	17.5

Bore	KK	LL	MM	R	TV	TF	UF	WF	WG	PL		Y		ZJ
										5st	10st over	5st	10st over	
Ø32	M8X1.25	23	16	33	34	58	72	15	7	6	8	10	11	38
Ø40	M8X1.25	29.5	16	36	40	70	84	17	7	10	11.5	10	11.5	46.5
Ø50	M10X1.5	30.5	20	47	50	86	104	18	8	-	12	-	12	48.5
Ø63	M10X1.5	36	20	56	60	98	116	18	8	-	14.5	-	14.5	54
Ø80	M16X2	43.5	25	70	77	126	150	26	10	-	16.5	-	16.5	69.5
Ø100	M20X2.5	53	30	84	94	143	165	28	12	-	21	-	21	81

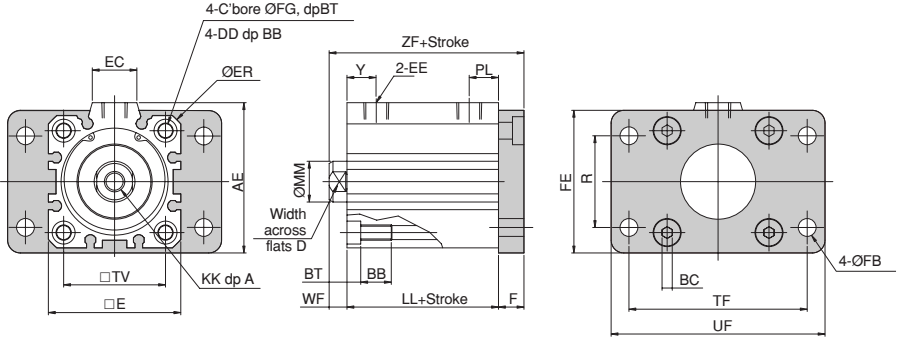
# Standard P10S-7 Series

## Dimensions

(Unit : mm)

### Flange-Cap Side / FB(Non Magnet)

●Bore : Ø32 ~ Ø100



Bore	A	AE	BB	BC	BT	D	DD	E	EC	EE	ER	F	FE	FG
Ø32	13	51	12	4	5.4	14	M6X1	45	15	Rc1/8	60	8	48	9
Ø40	13	59	12	4	5.4	14	M6X1	52	17.5	Rc1/8	69	10	56	9
Ø50	15	74	14	5	8	17	M8X1.25	64	19	Rc1/4	85	10	70	11
Ø63	15	87.5	18	6	10.5	17	M10X1.5	77	19	Rc1/4	102	10	84	14
Ø80	21	107.5	22	8	13.5	22	M12X1.75	98	25	Rc3/8	130	16	105	17.5
Ø100	27	125.5	22	8	13.5	27	M12X1.75	117	25	Rc3/8	156	16	121	17.5

Bore	KK	LL	MM	R	TV	TF	UF	WF	PL		Y		ZF
									5st	10st over	5st	10st over	
Ø32	M8X1.25	23	16	33	34	58	72	7	6	8	10	11	38
Ø40	M8X1.25	29.5	16	36	40	70	84	7	10	11.5	10	11.5	46.5
Ø50	M10X1.5	30.5	20	47	50	86	104	8	-	12	-	12	48.5
Ø63	M10X1.5	36	20	56	60	98	116	8	-	14.5	-	14.5	54
Ø80	M16X2	43.5	25	70	77	126	150	10	-	16.5	-	16.5	69.5
Ø100	M20X2.5	53	30	84	94	143	165	12	-	21	-	21	81

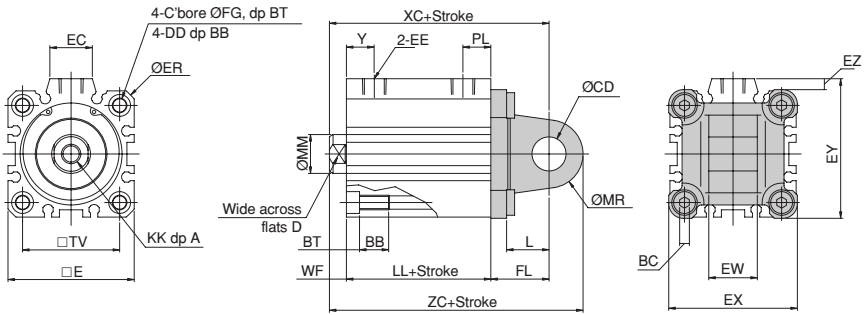
# Compact Cylinder

## Dimensions

(Unit : mm)

Single Clevis / CA(Non Magnet)

●Bore :  $\varnothing 32 \sim \varnothing 100$



Bore	A	BB	BC	BT	CD	D	DD	E	EC	EE	ER	EX	EY	EZ
$\varnothing 32$	13	12	4	5.4	$\varnothing 12H9$	14	M6X1	45	15	Rc1/8	60	45	49.5	4.5
$\varnothing 40$	13	12	4	5.4	$\varnothing 14H9$	14	M6X1	52	17.5	Rc1/8	69	53	57.5	4.5
$\varnothing 50$	15	14	5	8	$\varnothing 14H9$	17	M8X1.25	64	19	Rc1/4	85	64	71	7
$\varnothing 63$	15	18	6	10.5	$\varnothing 14H9$	17	M10X1.5	77	19	Rc1/4	102	77	84	7
$\varnothing 80$	21	22	8	13.5	$\varnothing 20H9$	22	M12X1.75	98	25	Rc3/8	130	100	105	5
$\varnothing 100$	27	22	8	13.5	$\varnothing 20H9$	27	M12X1.75	117	25	Rc3/8	156	117	123.5	6.5

Bore	EW	FL	KK	L	LL	MM	MR	TV	WF	XC	PL		Y		ZC
											5st	10st over	5st	10st over	
$\varnothing 32$	16 $\frac{0.070}{-}$	24	M8X1.25	16.5	23	16	R12	34	7	54	6	8	10	11	66
$\varnothing 40$	20 $\frac{0.084}{-}$	24	M8X1.25	16	29.5	16	R14	40	7	60.5	10	11.5	10	11.5	74.5
$\varnothing 50$	20 $\frac{0.084}{-}$	24	M10X1.5	16	30.5	20	R14	50	8	62.5	-	12	-	12	76.5
$\varnothing 63$	20 $\frac{0.084}{-}$	24	M10X1.5	16	36	20	R14	60	8	68	-	14.5	-	14.5	82
$\varnothing 80$	32 $\frac{0.100}{-}$	32	M16X2	21	43.5	25	R19	77	10	85.5	-	16.5	-	16.5	104.5
$\varnothing 100$	32 $\frac{0.100}{-}$	32	M20X2.5	21	53	30	R19	94	12	97	-	21	-	21	116

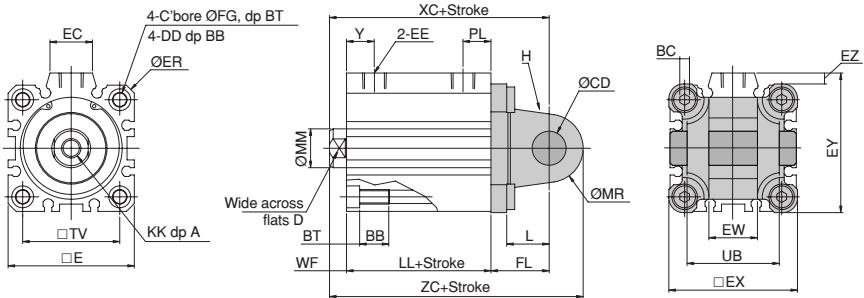
# Standard P10S-7 Series

## Dimensions

(Unit : mm)

### Double Clevis / CB(Non Magnet)

●Bore :  $\varnothing 32 \sim \varnothing 100$



Bore	A	BB	BC	BT	CD	D	DD	E	EC	EE	ER	EX	EY	EZ	EW
$\varnothing 32$	13	12	4	5.4	$\varnothing 12H9/f8$	14	M6X1	45	15	Rc1/8	60	45	49.5	4.5	16 <sup>+0.7</sup> <sub>-0.5</sub>
$\varnothing 40$	13	12	4	5.4	$\varnothing 14H9/f8$	14	M6X1	52	17.5	Rc1/8	69	53	57.5	4.5	20 <sup>+0.7</sup> <sub>-0.5</sub>
$\varnothing 50$	15	14	5	8	$\varnothing 14H9/f8$	17	M8X1.25	64	19	Rc1/4	85	64	71	7	20 <sup>+0.7</sup> <sub>-0.5</sub>
$\varnothing 63$	15	18	6	10.5	$\varnothing 14H9/f8$	17	M10X1.5	77	19	Rc1/4	102	77	84	7	20 <sup>+0.7</sup> <sub>-0.5</sub>
$\varnothing 80$	21	22	8	13.5	$\varnothing 20H9/f8$	22	M12X1.75	98	25	Rc3/8	130	100	105	5	32 <sup>+0.7</sup> <sub>-0.5</sub>
$\varnothing 100$	27	22	8	13.5	$\varnothing 20H9/f8$	27	M12X1.75	117	25	Rc3/8	156	117	123.5	6.5	32 <sup>+0.7</sup> <sub>-0.5</sub>

Bore	FL	H	KK	L	LL	MM	MR	TV	UB	WF	XC	PL		Y		ZC
												5st	10st over	5st	10st over	
$\varnothing 32$	24	R16.5	M8X1.25	16.5	23	16	R12	34	31	7	54	6	8	10	11	66
$\varnothing 40$	24	R18	M8X1.25	16	29.5	16	R14	40	38	7	60.5	10	11.5	10	11.5	74.5
$\varnothing 50$	24	R21	M10X1.5	16	30.5	20	R14	50	49	8	62.5	-	12	-	12	76.5
$\varnothing 63$	24	R22	M10X1.5	16	36	20	R14	60	52	8	68	-	14.5	-	14.5	82
$\varnothing 80$	32	R30	M16X2	21	43.5	25	R19	77	64	10	85.5	-	16.5	-	16.5	104.5
$\varnothing 100$	32	R30	M20X2.5	21	53	30	R19	94	64	12	97	-	21	-	21	116

# Compact Cylinder / Double Acting Double Rod

# P10S-7D Series

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

## Order Key



### 1. Magnet

Blank	None Magnet
R	Built in Magnet

### 2. Bore(mm)

012	Ø 12	040	Ø 40
016	Ø 16	050	Ø 50
020	Ø 20	063	Ø 63
025	Ø 25	080	Ø 80
032	Ø 32	100	Ø 100

### 3. Cushion

N	Bumper Cushion(Standard)
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Note) Bumper is not available Ø12, Ø16.

### 4. Stroke(mm)

Please refer to standard stroke table(P.25)

### 5. Rod Thread

N	Female Thread
T	Male Thread

Note) If cylinder will be mounted using Head side flange, please write "WF" length due to extension of rod (Referring to dimension on P33, P38 and P72).

## Sensor

Type	Part No.	Load Voltage	Load Current	Leak Current	Indicator Lamp	Wire	Wire direction	Sensor Length
Reed type	PD11S*	DC24V	5~40mA	Max. 50 $\mu$ A	LED	2 Wire	Horizontal	24mm
		AC110V	5~20mA					
		AC220V	5~10mA					
	PD31S*	DC24V	5~40mA					
		AC110V	5~20mA					
		AC220V	5~10mA					
	PD12S*	DC24V	2.5~40mA		None	Horizontal		
		AC110V	2.5~20mA					
		AC220V	2.5~10mA					
	PD32S*	DC24V	2.5~40mA			Vertical		
		AC110V	2.5~20mA					
		AC220V	2.5~10mA					
Solid state type	PD13S*	DC5~28V	DC0.1~40mA	Max. 50 $\mu$ A	LED	3 Wire(NPN)	Horizontal	15mm
	PD14S*	DC10~28V	DC5~20mA	Max. 1mA (DC24V)	None	2 Wire		
	PD15S*		DC 2.5~20mA					
	PE33S*	DC5~28V	DC0.1~40mA	Max. 50 $\mu$ A	LED	3 Wire(NPN)	Vertical	
	PE34S*	DC10~28V	DC5~20mA	Max. 1mA (DC24V)				
	PE35S*		DC 2.5~20mA					
					None	2 Wire		

Note) \* :Lead wire length : 1m - 1 / 3m - 3



# Double Acting Double Rod P10S-7D Series

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100



## Specifications

Acting	Unit	Double Acting
Fluid		Air
Operating Pressure Range	Mpa	Ø12 ~ Ø32 : 0.1 ~ 1
		Ø40 ~ Ø100 : 0.05 ~ 1
Proof Pressure	Mpa	1.5
Operating Temperature	℃	with sensor : 0 ~ 60
		without sensor : -10 ~ 70
Piston Speed	mm/s	Ø12 ~ Ø40 : 30 ~ 500
		Ø50 ~ Ø100 : 30 ~ 300
Cushion		Ø12, Ø16 : None Cushion
		Ø20 ~ Ø100 : Bumper Cushion
Stroke Tolerance		Ø120 ~ Ø100 : $^{+1.0}_0$

Note) The mounting bracket apply to the bore Ø32~Ø100.

## Standard Stroke

Type	Bore	Standard Stroke(mm)																	
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100
Double Acting	Ø 12	○	○	○	○	○													
	Ø 16	○	○	○	○	○													
	Ø 20	○	○	○	○	○	○												
	Ø 25	○	○	○	○	○	○												
	Ø 32	○	○	○	○	○	○	○	○	○	○								
	Ø 40	○	○	○	○	○	○	○	○	○	○								
	Ø 50		○	○	○	○	○	○	○	○	○								
	Ø 63		○	○	○	○	○	○	○	○	○								
	Ø 80		○	○	○	○	○	○	○	○	○								
	Ø 100		○	○	○	○	○	○	○	○	○								

### Note) • Intermediate Stroke

The intermediate stroke is manufactured by bring collars closer each other.

Ex) P10S-7ST040N33N will be manufactured by 2mm collar in 35mm stroke tube.

• For longer stroke than standard, please contact PARKER.

• Avoid use of a cylinder in such a manner that eccentric load applies to the cylinder. When use of mounting accessories of rotary type in particular, be sure to consult PARKER in advance.

# Compact Cylinder

## Theoretical Output

(Unit : N)

Bore (mm)	Rod Dia. (mm)	Pressure ( Mpa )									
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Ø 12	Ø 6	8.5	17.0	25.4	33.9	42.4	50.9	59.4	67.9	76.3	84.8
Ø 16	Ø 8	15.1	30.2	45.2	60.3	75.4	90.5	106	121	136	151
Ø 20	Ø 10	23.6	47.1	70.7	94.2	118	141	165	188	212	236
Ø 25	Ø 12	37.8	82.4	124	165	206	247	288	330	371	412
Ø 32	Ø 16	60.3	121	181	241	302	362	422	483	543	603
Ø 40	Ø 16	106	211	317	422	528	633	739	844	950	1055
Ø 50	Ø 20	165	330	495	660	825	990	1155	1319	1484	1649
Ø 63	Ø 20	280	561	841	1121	1402	1682	1962	2242	2523	2803
Ø 80	Ø 25	454	907	1361	1814	2268	2721	3175	3629	4082	4536
Ø 100	Ø 30	715	1429	2144	2859	3574	4288	5003	5718	6432	7147

Note) Double Acting : Effective output = Theoretical Output × 0.85

## Weight

### Double Acting Double Rod (None Magnet)

(Unit : g)

Bore (mm)	Basic Weight	Additional Weight per stroke of 1mm	Mounting Weight		
			Side Luge Foot	End Angles Foot	Flange
Ø 12	30	1.6	—	—	—
Ø 16	42	2.1	—	—	—
Ø 20	76	3.1	—	—	—
Ø 25	104	4.1	—	—	—
Ø 32	169	5.7	96	84	210
Ø 40	229	6.4	110	100	275
Ø 50	362	9.8	160	150	415
Ø 63	550	11.1	260	240	560
Ø 80	1151	17.6	520	500	1515
Ø 100	1973	24.4	590	580	1950

### Double Acting Double Rod(Built in Magnet)

(Unit : g)

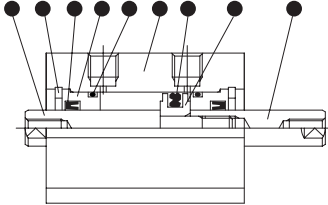
Bore (mm)	Basic Weight	Additional Weight per stroke of 1mm	Mounting Weight		
			Side Luge Foot	End Angles Foot	Flange
Ø 12	36.6	1.6	—	—	—
Ø 16	52	2.1	—	—	—
Ø 20	106	3.1	—	—	—
Ø 25	142	4.1	—	—	—
Ø 32	220	5.7	96	84	—
Ø 40	301	6.4	110	100	—
Ø 50	471	9.8	160	150	—
Ø 63	706	11.1	260	240	—
Ø 80	1398	17.6	520	500	1
Ø 100	2333	24.4	590	580	1

# Double Acting Double Rod P10S-7D Series

## Constructions and Parts

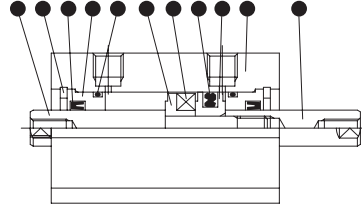
### Double Acting Double Rod(None Magnet)

- Bore  $\varnothing 12, \varnothing 16$

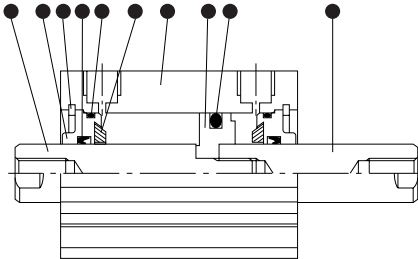


### Double Acting Double Rod(Built in Magnet)

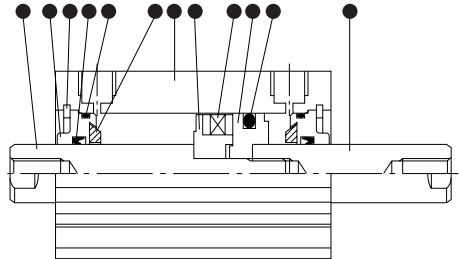
- Bore  $\varnothing 12, \varnothing 16$



- Bore  $\varnothing 20 - \varnothing 100$



- Bore  $\varnothing 20 - \varnothing 100$



## Main Parts

NO	Part Name	Material
1	Tube	AL alloy
2	Piston	AL alloy
5	Piston Rod A	Stainless Steel(Hard Chromiated) $\varnothing 12 \sim \varnothing 25$ Carbon Steel(Hard Chromiated) $\varnothing 32 \sim \varnothing 100$
6	Piston Rod B	Stainless Steel(Hard Chromiated) $\varnothing 12 \sim \varnothing 25$ Carbon Steel(Hard Chromiated)) $\varnothing 32 \sim \varnothing 100$
7	Head Cover	AL alloy
9	Stop Ring	Carbon Steel
10	Cushion	Urethane
12	Magnet	-
13	Spacer	Al alloy
19	Piston Packing	Rubber
20	Rod Packing	Rubber
21	O-Ring	Rubber

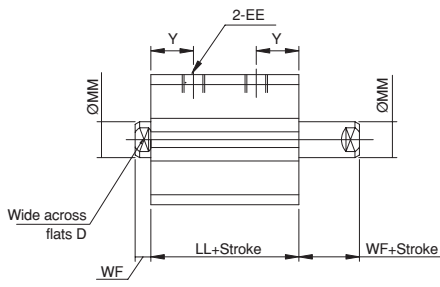
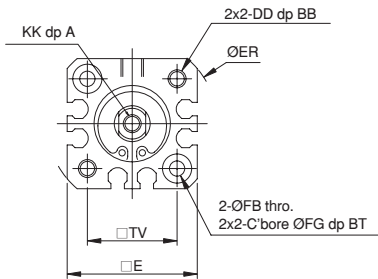
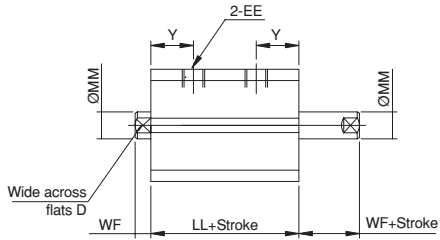
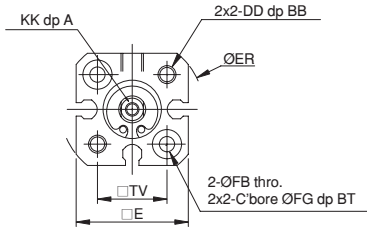
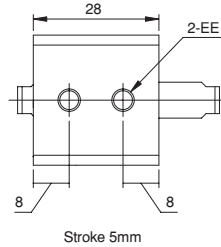
# Compact Cylinder

## Dimensions

(Unit : mm)

Basic / ST(Non Magnet)

●Bore :  $\varnothing 12, \varnothing 16$



Bore	A	BB	BT	D	DD	E	EE	ER	FB	FG	KK	LL	MM
$\varnothing 12$	6	8	3.5	5	M4X0.7	25	M5X0.8	32	3.4	6.5	M3X0.5	23	6
$\varnothing 16$	8	8	3.5	6	M4X0.7	29	M5X0.8	38	3.4	6.5	M4X0.7	23	8

Bore	TV	WF	Y
$\varnothing 12$	15.5	3.5	9.5
$\varnothing 16$	20	3.5	9.5



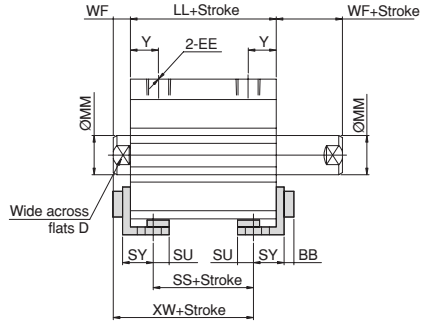
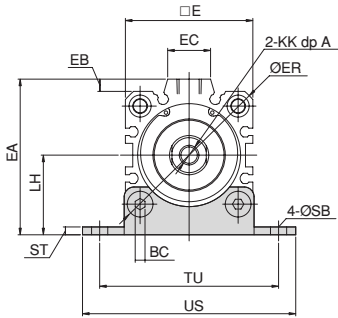
# Compact Cylinder

## Dimensions

(Unit : mm)

### Side Luge Foot / LA(Non Magnet)

●Bore : Ø32-Ø100



Bore	A	BB	BC	D	E	EA	EB	EC	EE	ER	KK	LH	LL	MM	SB	SS	ST
Ø32	13	4	4	14	45	55.5	4.5	15	Rc1/8	60	M8X1.25	28.5	33	16	6.6	14.4	3.2
Ø40	13	4	4	14	52	63.5	5	17.5	Rc1/8	69	M8X1.25	32.5	34.5	16	6.6	15.9	3.2
Ø50	15	5	5	17	64	77	7	19	Rc1/4	85	M10X1.5	38	35.5	20	9	13.9	3.2
Ø63	15	6	6	17	77	90	7	19	Rc1/4	102	M10X1.5	44.5	41	20	11	16.4	3.2
Ø80	21	7	8	22	98	113.5	6	25	Rc3/8	130	M16X2	58.5	53.5	25	14	20.5	4.5
Ø100	27	7	8	27	117	132	6.5	25	Rc3/8	156	M20X2.5	67	63	30	14	30	4.5

Bore	SU	SY	TU	US	WF	XW	Y
Ø32	6.5	12.5	65	78	7	30.7	11
Ø40	6.5	12.5	73	87	7	32.2	11.5
Ø50	8	14	87	103	8	32.7	12
Ø63	9.5	15.5	109	127	8	36.7	14.5
Ø80	11	21	123	145	10	47	16.5
Ø100	11	21	137	159	12	58.5	21

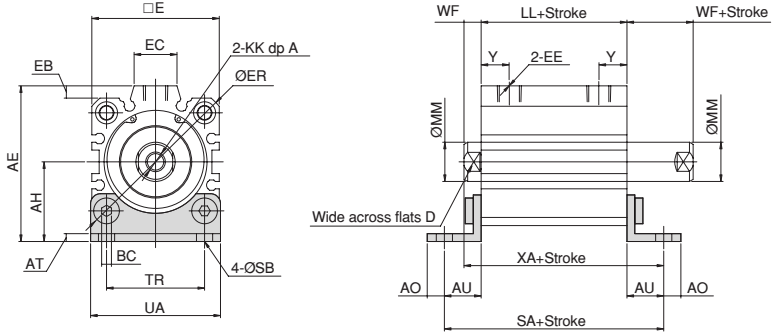
# Double Acting Double Rod P10S-7D Series

## Dimensions

(Unit : mm)

### End Angles Foot / LB(None Magnet)

●Bore :  $\varnothing 32$ - $\varnothing 100$



Bore	A	AE	AH	AO	AT	AU	BC	D	E	EB	EC	EE	ER	KK	LL	MM	SA
$\varnothing 32$	13	55.5	28.5	7	3.2	15	4	14	45	4.5	15	Rc1/8	60	M8X1.25	33	16	63
$\varnothing 40$	13	63.5	32.5	7	3.2	15	4	14	52	5	17.5	Rc1/8	69	M8X1.25	34.5	16	64.5
$\varnothing 50$	15	77	38	9	3.2	18	5	17	64	7	19	Rc1/4	85	M10X1.5	35.5	20	71.5
$\varnothing 63$	15	90	44.5	11	3.2	20	6	17	77	7	19	Rc1/4	102	M10X1.5	41	20	81
$\varnothing 80$	21	113.5	58.5	14	4.5	25	8	22	98	6	25	Rc3/8	130	M16X2	53.5	25	103.5
$\varnothing 100$	27	132	67	14	4.5	25	8	27	117	6.5	25	Rc3/8	156	M20X2.5	63	30	113

Bore	SB	TR	UA	WF	XA	Y
$\varnothing 32$	6.6	34	45	7	55	11
$\varnothing 40$	6.6	40	53	7	56.5	11.5
$\varnothing 50$	9	50	64	8	61.5	12
$\varnothing 63$	11	60	77	8	69	14.5
$\varnothing 80$	14	77	100	10	88.5	16.5
$\varnothing 100$	14	94	117	12	100	21

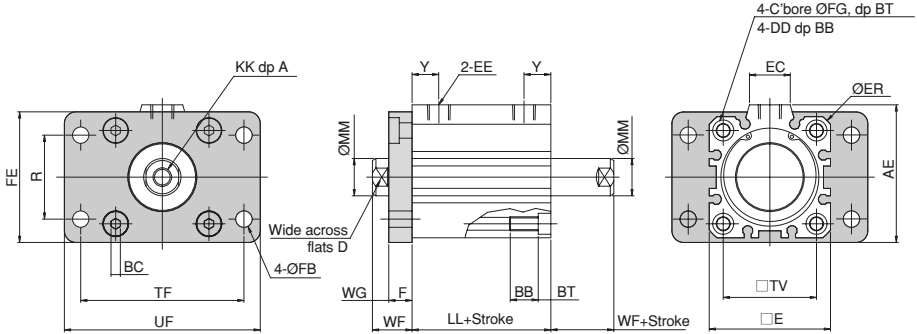
# Compact Cylinder

## Dimensions

(Unit : mm)

Flange - Head Side / FA(None Magnet)

●Bore :  $\varnothing 32$ - $\varnothing 100$



Bore	A	AE	BB	BC	BT	D	DD	E	EC	EE	ER	F	FB	FE	FG	KK
$\varnothing 32$	13	51	12	4	5.4	14	M6X1	45	15	Rc1/8	60	8	7	48	9	M8X1.25
$\varnothing 40$	13	59	12	4	5.4	14	M6X1	52	17.5	Rc1/8	69	10	7	56	9	M8X1.25
$\varnothing 50$	15	74	14	5	8	17	M8X1.25	64	19	Rc1/4	85	10	9	70	11	M10X1.5
$\varnothing 63$	15	87.5	18	6	10.5	17	M10X1.5	77	19	Rc1/4	102	10	9	84	14	M10X1.5
$\varnothing 80$	21	107.5	22	8	13.5	22	M12X1.75	98	25	Rc3/8	130	16	12	105	17.5	M16X2
$\varnothing 100$	27	125.5	22	8	13.5	27	M12X1.75	117	25	Rc3/8	156	16	12	121	17.5	M20X2.5

Bore	LL	MM	R	TV	TF	UF	WF	WG	Y
$\varnothing 32$	33	16	33	34	58	72	15	7	11
$\varnothing 40$	34.5	16	36	40	70	84	17	7	11.5
$\varnothing 50$	35.5	20	47	50	86	104	18	8	12
$\varnothing 63$	41	20	56	60	98	116	18	8	14.5
$\varnothing 80$	53.5	25	70	77	126	150	26	10	16.5
$\varnothing 100$	63	30	84	94	143	165	28	12	21



# Compact Cylinder / Single Acting

# P10S-7 SR(SH) Series

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50

## Order Key

P10S - 7 **R** **SR** **ST** **040** **N** **030** **T**

① ② ③ ④ ⑤ ⑥

### 1. Magnet

Blank	None Magnet
R	Built in Magnet

Note) Magnet type is available for only Spring Return type(SR).

### 2. Acting

SR	Single Acting (Spring Return)
SH	Single Acting (Spring Extend)

### 3. Bore(mm)

012	Ø 12
016	Ø 16
020	Ø 20
025	Ø 25
032	Ø 32
040	Ø 40
050	Ø 50

### 4. Cushion

N	Bumper Cushion (Standard)
---	---------------------------

Note) Bumper is not available Ø12, Ø16.

### 5. Stroke(mm)

Please refer to standard stroke table(P.40)

### 6. Rod Thread

N	Female Thread
T	Male Thread

Note) If cylinder will be mounted using Head side flange, please write "WF" length due to extension of rod (Referring to dimension on P49 and P72).

## Sensor

Type	Part No.	Load Voltage	Load Current	Leak Current	Indicator Lamp	Wire	Wire direction	Sensor Length	
Reed type	PD11S*	DC24V	5~40mA		LED	2 Wire	Horizontal	24mm	
		AC110V	5~20mA						
		AC220V	5~10mA						
	PD31S*	DC24V	5~40mA				None		Vertical
		AC110V	5~20mA						
		AC220V	5~10mA						
	PD12S*	DC24V	2.5~40mA		Horizontal				
		AC110V	2.5~20mA						
		AC220V	2.5~10mA						
	PD32S*	DC24V	2.5~40mA		Vertical				
		AC110V	2.5~20mA						
		AC220V	2.5~10mA						
Solid state type	PD13S*	DC5~28V	DC0.1~40mA	Max. 50 $\mu$ A	LED	3 Wire(NPN)	Horizontal	15mm	
	PD14S*	DC10~28V	DC5~20mA	Max. 1mA (DC24V)	None	2 Wire			
	PD15S*		DC 2.5~20mA						
	PE33S*	DC5~28V	DC0.1~40mA	Max. 50 $\mu$ A	LED	3 Wire(NPN)	Vertical		
	PE34S*	DC10~28V	DC5~20mA	Max. 1mA (DC24V)	None	2 Wire			
	PE35S*		DC 2.5~20mA						

Note) \* :Lead wire length : 1m - 1 / 3m - 3

# Compact Cylinder

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50



## Specifications

Acting	Unit	Single Acting
Fluid		Air
		Ø12 ~ Ø16 : 0.2 ~ 1
Operating Pressure Range	Mpa	Ø20 ~ Ø25 : 0.18 ~ 1
		Ø20 ~ Ø25 : 0.12 ~ 1
Proof Pressure	Mpa	1.5
Operating Temperature	℃	With Sensor : 0 ~ 60
		Without Sensor : -10 ~ 70
Piston Speed	mm/s	Ø12 ~ Ø40 : 100 ~ 500
		Ø50 : 100 ~ 300
Cushion		Ø12, Ø16 : None Cushion
		Ø20 ~ Ø50 : Bumper Cushion
Stroke Tolerance		Ø12 ~ Ø50 : $\begin{matrix} +1.0 \\ 0 \end{matrix}$

## Standard Stroke

Type	Bore	Standard Stroke(mm)									
		5	10	15	20	25	30	35	40	45	50
Single Acting (Spring Return)	Ø 12	○	○	○	○						
	Ø 16	○	○	○	○						
	Ø 20	○	○	○	○	○	○				
	Ø 25	○	○	○	○	○	○				
	Ø 32	○	○	○	○	○	○	○	○	○	○
	Ø 40	○	○	○	○	○	○	○	○	○	○
	Ø 50		○	○	○	○	○	○	○	○	○
Single Acting (Spring Extend)	Ø 12	○	○								
	Ø 16	○	○								
	Ø 20	○	○								
	Ø 25	○	○								
	Ø 32	○	○								
	Ø 40	○	○								
	Ø 50		○		○						

• Only Standard stroke are available in Single Acting type cylinder.

# Single Acting P10S-7SH(SR) Series

Spring Tension (Spring Return type)

(Unit : N)

Bore	Load	Stroke (mm)									
		5	10	15	20	25	30	35	40	45	50
Ø 12	Initial Load	8.1	6.5	10.2	6.4						
	End Load	9.8		11.4							
Ø 16	Initial Load	11.1	9.0	10.3	9.3						
	End Load	13.1		13.2							
Ø 20	Initial Load	18.3	15.6	17.9	16.8	15.7	14.5				
	End Load	21.2		21.4							
Ø 25	Initial Load	24.0	19.9	24.9	22.9	20.0	18.9				
	End Load	28.4		30.7							
Ø 32	Initial Load	33.7	28.5	34.7	33.0	31.3	29.3				
	End Load	39.4		39.2							
Ø 40	Initial Load	44.1	34.7	44.7	45.6	43.5	41.4	39.3	37.2	35.1	33.0
	End Load	47.5		54.5							
Ø 50	Initial Load		48.0	41.9	35.8	50.5	48.5	46.5	44.5	42.5	40.4
	End Load		60.0			60.6					

Spring Tension (Spring Extend type)

Bore	Load	Stroke ( mm )		
		5	10	20
Ø 12	Initial Load	2.9		2.9
	End Load	9.8		9.8
Ø 16	Initial Load	6.2		5.2
	End Load	13.0		13.2
Ø 20	Initial Load	5.9		6.9
	End Load	26.5		27.5
Ø 25	Initial Load	5.9		6.9
	End Load	26.5		27.5
Ø 32	Initial Load	22.6		22.6
	End Load	42.2		41.2
Ø 40	Initial Load	22.6		22.6
	End Load	42.2		41.2
Ø 50	Initial Load			23.5
	End Load			84.2

# Compact Cylinder

## Weight

Single Acting(Spring Return / None Magnet)

(Unit : N)

Bore (mm)	Basic Weight										Additional Weight					Rod Nut
											Mounting Weight					
	5	10	15	20	25	30	35	40	45	50	LA	LB	FA,FB	CA	CB	
Ø 12	28.5	35	49	55.5												2
Ø 16	39	47.5	66	74.5												2
Ø 20	73	85	112	125	137	149										10
Ø 25	101	117	156	172	186	204										20
Ø 32	135	156	214	234	255	275					96	84	210	145	165	43
Ø 40	221	245	343	367	391	415	440	464	488	512	110	100	275	205	220	43
Ø 50		369	512	549	585	622	658	695	731	768	160	150	415	275	380	74

Single Acting(Spring Return / Built in Magnet)

(Unit : N)

Bore (mm)	Basic Weight										Additional Weight					Rod Nut
											Mounting Weight					
	5	10	15	20	25	30	35	40	45	50	LA	LB	FA,FB	CA	CB	
Ø 12	35.1	41.6	55.6	62.1												2
Ø 16	49	57.5	76	84.5												2
Ø 20	101	113	141	153	165	177										10
Ø 25	139	155	194	218	226	242										20
Ø 32	186	207	265	285	306	326					96	84	210	145	165	43
Ø 40	293	317	415	439	463	487	512	536	560	584	110	100	275	205	220	43
Ø 50		479	621	658	694	731	768	804	841	877	160	150	415	275	380	74

Single Acting(Spring Extend / None Magnet)

(Unit : N)

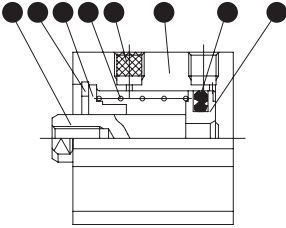
Bore (mm)	Basic Weight			Additional Weight					Rod Nut
				Mounting Weight					
	5	10	20	LA	LB	FA,FB	CA	CB	
Ø 12	29	35.5							2
Ø 16	39	47.5							2
Ø 20	77	88							10
Ø 25	107	121							20
Ø 32	139	154		96	84	210	145	165	43
Ø 40	225	243		110	100	275	205	220	43
Ø 50		386	443	160	150	415	275	380	74

# Single Acting P10S-7SR(SH) Series

## Constructions and Parts

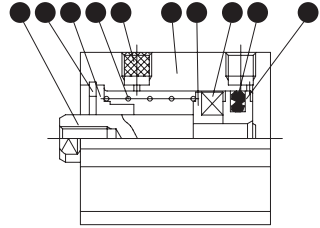
### Spring Return(None Magnet)

- Bore  $\varnothing 12$ ,  $\varnothing 16$

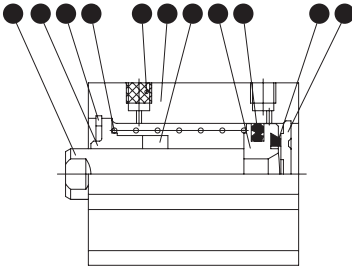


### Spring Return(Built in Magnet)

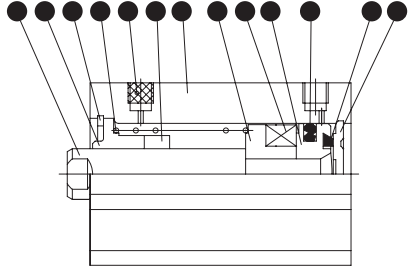
- Bore  $\varnothing 12$ ,  $\varnothing 16$



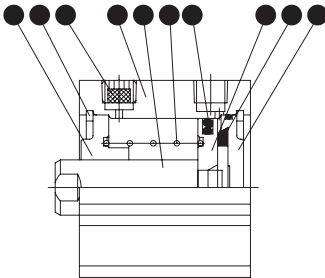
- Bore  $\varnothing 20$ ,  $\varnothing 25$ ,  $\varnothing 32$



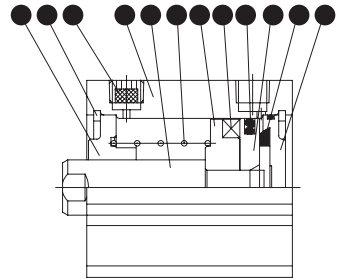
- Bore  $\varnothing 20$ ,  $\varnothing 25$ ,  $\varnothing 32$



- Bore  $\varnothing 40$ ,  $\varnothing 50$

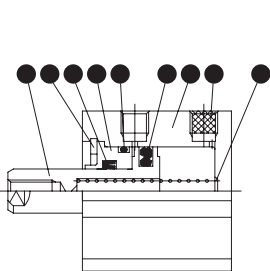


- Bore  $\varnothing 40$ ,  $\varnothing 50$

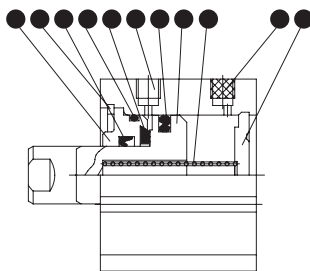


### Spring Extend(None Magnet)

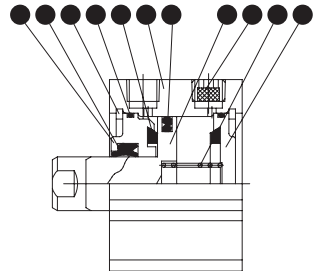
- Bore  $\varnothing 12$ ,  $\varnothing 16$



- Bore  $\varnothing 20$ ,  $\varnothing 25$ ,  $\varnothing 32$



- Bore  $\varnothing 40$ ,  $\varnothing 50$



# Compact Cylinder

## Main Parts(Spring Return)

NO	Parts Name	Material
1	Body	AL alloy
2	Rod Cover	AL alloy
3	Head Cover	AL alloy
4	Piston	AL alloy
5	Piston Rod A	Carbon Steel
6	Magnet Cover	
7	Cushion Pad	Urethane
8	Stop Ring	Carbon Steel
9	Piston Packing	Rubber
10	Magnet	Magnet
11	Spring	Piano Wire
12	Filter Plug	Plastic : $\varnothing 20 \sim \varnothing 40$ , Sintered Steel : $\varnothing 50$
13	Spacer	AL alloy

## Main Parts(Spring Extend)

NO	Parts Name	Material
1	Body	AL alloy
2	Rod Cover	AL alloy
3	Head Cover	AL alloy
4	Piston Rod A	Carbon Steel
5	Spring	Piano Wire
6	Cushion Pad	Urethane
7	Stop Ring	Carbon Steel
8	Piston Packing	Rubber
9	Rod Packing	Rubber
10	O-Ring	Rubber
11	Filter Plug	Plastic : $\varnothing 20 \sim \varnothing 40$ , Sintered Steel : $\varnothing 50$

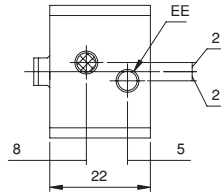
# Single Acting P10S-7(R)SR Series

## Dimensions

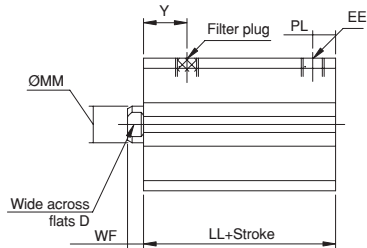
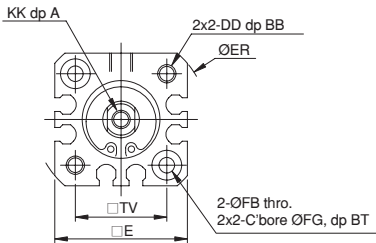
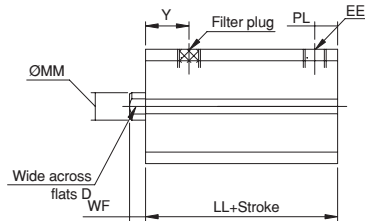
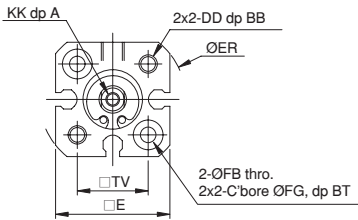
(Unit : mm)

### Spring Return Basic (None Magnet / Built in Magnet)

● Bore :  $\varnothing 12$



Stroke 5mm



Bore	A	BB	BT	D	DD	E	EE	ER	FB	FG	KK	MM	PL		TV	WF	Y	
													5	10 over			5	10 over
$\varnothing 12$	6	8	3.5	5	M4X0.7	25	M5X0.8	32	3.4	6.5	M3X0.5	6	5	5	15.5	3.5	8	9.5
$\varnothing 16$	8	8	3.5	6	M4X0.7	29	M5X0.8	38	3.4	6.5	M4X0.7	8	5	5	20	3.5	8	9.5

Bore	LL (None Magnet)				LL (Built in Magnet)			
	5	10	15	20	5	10	15	20
$\varnothing 12$	22	27	37	42	27	32	42	47
$\varnothing 16$	22	27	37	42	27	32	42	47

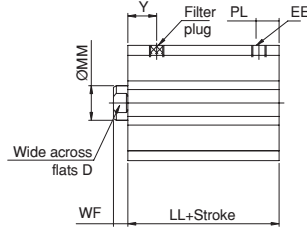
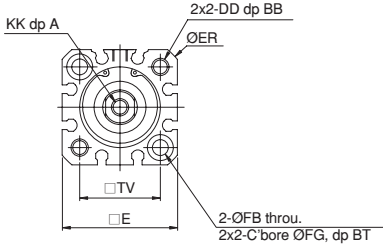
# Compact Cylinder

## Dimensions

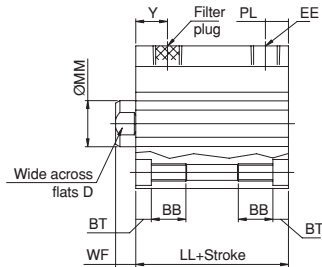
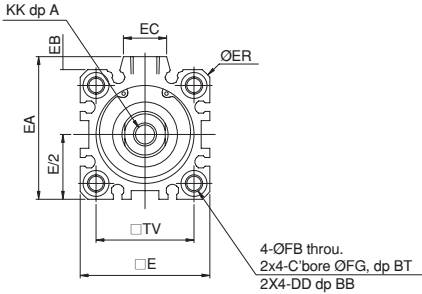
(Unit : mm)

### Spring Return Basic / ST(Non Magnet / Built in Magnet)

- Bore  $\varnothing 12\text{--}\varnothing 25$



- Bore  $\varnothing 32\text{--}\varnothing 50$



Bore	A	BB	BT	D	DD	E	EA	EB	EC	EE	ER	FB	FG	KK	MM	PL		TV	WF	Y	
																5	10 over			5	10 over
$\varnothing 20$	7	10	5.4	8	M6X1	36	-	-	-	M5X0.8	47	5.5	9	M5X0.8	10	6	7	25.5	4.5	9	10
$\varnothing 25$	12	10	5.4	10	M6X1	40	-	-	-	M5X0.8	52	5.5	9	M6X1	12	6	7	28	5	9	10
$\varnothing 32$	13	12	5.4	14	M6X1	45	49.5	4.5	15	Rc1/8	60	5.2	9	M8X1.25	16	6	8	34	7	10	11
$\varnothing 40$	13	12	5.4	14	M6X1	52	57	5	17.5	Rc1/8	69	5.2	9	M8X1.25	16	10	11.5	40	7	10	11.5
$\varnothing 50$	15	14	8	17	M8X1.25	64	71	7	19	Rc1/4	85	6.5	11	M10X1.5	20	-	12	50	8	-	12

Bore	LL(Non Magnet)										LL(Built in Magnet)									
	5	10	15	20	25	30	35	40	45	50	5	10	15	20	25	30	35	40	45	50
$\varnothing 20$	26.5	31.5	41.5	46.5	51.5	56.5					36.5	41.5	51.5	56.5	61.5	66.5				
$\varnothing 25$	27.5	32.5	42.5	47.5	52.5	57.5					37.5	42.5	52.5	57.5	62.5	67.5				
$\varnothing 32$	28	33	48	53	58	63					38	43	58	63	68	73				
$\varnothing 40$	34.5	39.5	54.5	59.5	64.5	69.5	74.5	79.5	84.5	89.5	44.5	49.5	64.5	69.5	74.5	79.5	84.5	89.5	94.5	99.5
$\varnothing 50$		40.5	45.5	50.5	65.5	70.5	75.5	80.5	85.5	90.5		50.5	55.5	60.5	75.5	80.5	85.5	90.5	95.5	100.5



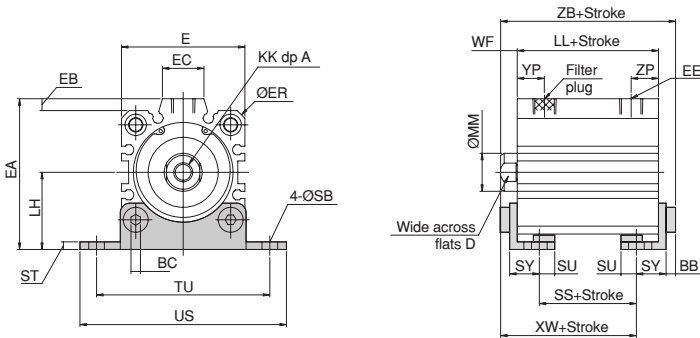
# Single Acting P10S-7(R)SR Series

## Dimensions

(Unit : mm)

### Spring Return End Angles Foot / LA(None Magnet / Built in Magnet)

- Bore Ø32-Ø50



Note) Foot mount is available for over than 10mm stroke.

Bore	A	BB	BC	D	E	EA	EB	EC	EE	ER	KK	LH	MM	SB	ST	SU	SY	TU	US	WF
Ø32	13	4	4	14	45	55.5	4.5	15	Rc1/8	60	M8X1.25	28.5	16	6.6	3.2	6.5	12.5	65	78	7
Ø40	13	4	4	14	52	63.5	5	17.5	Rc1/8	69	M8X1.25	32.5	16	6.6	3.2	6.5	12.5	73	87	7
Ø50	15	5	5	17	64	77	7	19	Rc1/4	85	M10X1.5	38	20	9	3.2	8	14	87	103	8

Bore	None Magnet										Built in Magnet													
	LL		SS		XW		YP		ZB		ZP		LL		SS		XW		YP		ZB		ZP	
	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5	10 over	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5	10 over	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>	5-10 <small>Note 1)</small>	15-30 <small>Note 2)</small>		
Ø32	23	33	-	14.4	20.7	30.7	-	11	37.2	47.2	-	8	33	43	14.4	24.4	30.7	40.7	11	47.2	57.2	8		
Ø40	29.5	39.5	10.9	20.9	27.2	37.2	10	11.5	43.7	53.7	10	11.5	39.5	49.5	20.9	30.9	37.2	47.2	11.5	53.7	63.7	11.5		
Ø50	30.5	40.5	8.9	18.9	27.7	37.7	-	12	46.7	56.7	-	12	40.5	50.5	18.9	28.9	37.7	47.7	12	56.7	66.7	12		

Note 1) Ø50 : 10-20.

Note 2) Ø40 : 15-50 / Ø50 : 25-50.

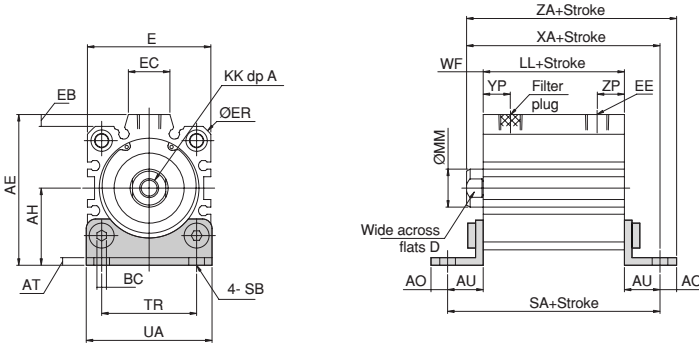
# Compact Cylinder

## Dimensions

(Unit : mm)

### Spring Return Side Luge Foot / LB(Non Magnet / Built in Magnet)

- Bore Ø32-Ø50



Bore	A	AE	AH	AO	AT	AU	BC	D	E	EB	EC	EE	ER	KK	MM	SB	TR	UA	WF
Ø32	13	55.5	28.5	7	3.2	15	4	14	45	4.5	15	Rc1/8	60	M8X1.25	16	6.6	34	45	7
Ø40	13	63.5	32.5	7	3.2	15	4	14	52	5	17.5	Rc1/8	69	M8X1.25	16	6.6	40	53	7
Ø50	15	77	38	9	3.2	18	5	17	64	7	19	Rc1/4	85	M10X1.5	20	9	50	64	8

Bore	None Magnet										Built in Magnet											
	LL		SA		XA		YP		ZA		ZP		LL		SA		XA		YP	ZA		ZP
	5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	5	10 over	5-10 Note1)	15-30 Note2)	5	10 over	5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	YP	5-10 Note1)	15-30 Note2)	ZP
Ø32	23	33	53	63	45	55	-	11	52	62	-	8	33	43	63	73	55	65	11	62	72	8
Ø40	29.5	39.5	59.5	69.5	51.5	61.5	10	11.5	58.5	68.5	10	11.5	39.5	49.5	69.5	79.5	61.5	71.5	11.5	68.5	78.5	11.5
Ø50	30.5	40.5	66.5	76.5	56.5	66.5	-	12	65.5	75.5	-	12	40.5	50.5	76.5	86.5	66.5	76.5	12	75.5	85.5	12

Note 1) Ø50 : 10~20.

Note 2) Ø40 : 15~50 / Ø50 : 25~50.

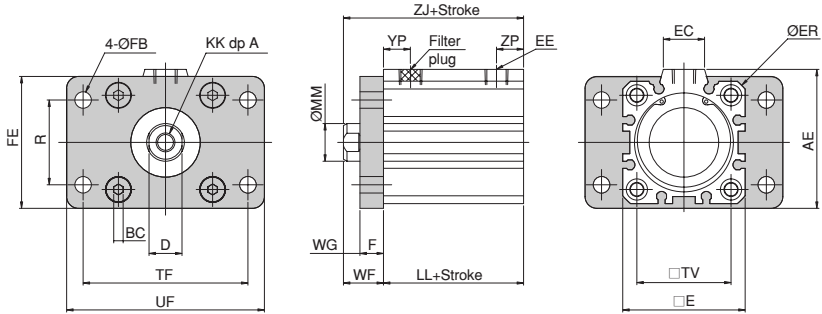
# Single Acting P10S-7(R)SR Series

## Dimensions

(Unit : mm)

### Spring Return Flange - Head Side / FA(Non Magnet / Built in Magnet)

- Bore Ø32-Ø50



Bore	A	AE	BC	D	E	EC	EE	ER	F	FB	FE	KK	MM	R	TV	TF	UF	WG	WF
Ø32	13	51	4	14	45	15	Rc1/8	60	8	7	48	M8X1.25	16	33	34	58	72	7	15
Ø40	13	59	4	14	52	17.5	Rc1/8	69	10	7	56	M8X1.25	16	36	40	70	84	7	17
Ø50	15	74	5	17	64	19	Rc1/4	85	10	9	70	M10X1.5	20	47	50	86	104	8	18

Bore	None Magnet					Built in Magnet										
	LL	YP	ZJ	ZP		LL	YP	ZJ	ZP							
	5-10 Note1)	15-30 Note2)	5	10 over	5-10 Note1)	15-30 Note2)	5	10 over	5-10 Note1)	15-30 Note2)	5	10 over	5-10 Note1)	15-30 Note2)	5	10 over
Ø32	23	33	10	11	38	48	-	8	33	43	11	48	58	8		
Ø40	29.5	39.5	10	11.5	46.5	56.5	10	11.5	39.5	49.5	11.5	56.5	66.5	11.5		
Ø50	30.5	40.5	-	12	48.5	58.5	-	12	40.5	50.5	12	58.5	68.5	12		

Note 1) Ø50 : 10-20.

Note 2) Ø40 : 15-50 / Ø50 : 25-50.

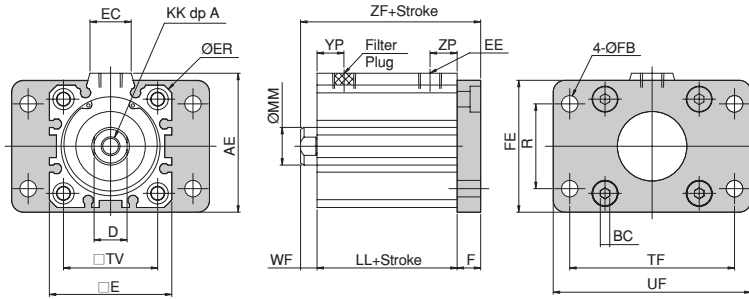
# Compact Cylinder

## Dimensions

(Unit : mm)

### Spring Return Flange-Cap Side / FB(Non Magnet / Built in Magnet)

- Bore  $\varnothing 32$ - $\varnothing 100$



Bore	A	AE	BC	D	E	EC	EE	ER	F	FB	FE	KK	MM	R	TV	TF	UF	WF
$\varnothing 32$	13	51	4	14	45	15	Rc1/8	60	8	7	48	M8X1.25	16	33	34	58	72	7
$\varnothing 40$	13	59	4	14	52	17.5	Rc1/8	69	10	7	56	M8X1.25	16	36	40	70	84	7
$\varnothing 50$	15	74	5	17	64	19	Rc1/4	85	10	9	70	M10X1.5	20	47	50	86	104	8

Bore	None Magnet					Built in Magnet														
	LL	YP	ZF	ZP		LL	YP	ZF	ZP											
$\varnothing 32$	5~10 <small>Note1)</small>	15~30 <small>Note2)</small>	5	10 over	5~10 <small>Note1)</small>	15~30 <small>Note2)</small>	5	10 over	5~10 <small>Note1)</small>	15~30 <small>Note2)</small>	5~10 <small>Note1)</small>	15~30 <small>Note2)</small>	5	10 over	5~10 <small>Note1)</small>	15~30 <small>Note2)</small>	5	10 over	5~10 <small>Note1)</small>	15~30 <small>Note2)</small>
$\varnothing 32$	23	33	10	11	38	48	6	8	33	43	11	48	58	8						
$\varnothing 40$	29.5	39.5	10	11.5	46.5	56.5	10	11.5	39.5	49.5	11.5	56.5	66.5	11.5						
$\varnothing 50$	30.5	40.5	-	12	48.5	58.5	-	12	40.5	50.5	12	58.5	68.5	12						

Note 1)  $\varnothing 50$  : 10-20.

Note 2)  $\varnothing 40$  : 15-50 /  $\varnothing 50$  : 25-50.

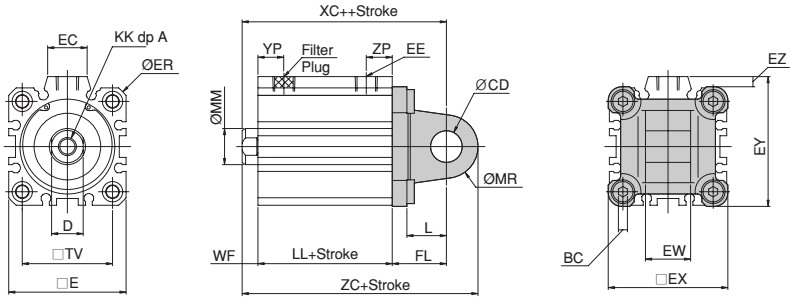
# Single Acting P10S-7(R)SR Series

## Dimensions

(Unit : mm)

### Spring Return Single Clevis /CA(Non Magnet / Built in Magnet)

- Bore Ø32-Ø50



Bore	A	BC	CD	D	E	EC	EE	ER	EX	EY	EZ	EW	FL	KK	L	MM	MR	TV	WF
Ø32	13	4	Ø12H9	14	45	15	Rc1/8	60	45	49.5	4.5	16 <sup>0</sup> <sub>-0.070</sub>	24	M8X1.25	16.5	16	R12	34	7
Ø40	13	4	Ø14H9	14	52	17.5	Rc1/8	69	53	57.5	4.5	20 <sup>0</sup> <sub>-0.084</sub>	24	M8X1.25	16	16	R14	40	7
Ø50	15	5	Ø14H9	17	64	19	Rc1/4	85	64	71	7	20 <sup>0</sup> <sub>-0.084</sub>	24	M10X1.5	16	20	R14	50	8

Bore	None Magnet								Built in Magnet										
	LL		XC		YP		ZC		ZP		LL		XC		YP		ZC		ZP
	5-10	15-30	5-10	15-30	5	10	5-10	15-30	5	10	5-10	15-30	5-10	15-30	5-10	15-30	5-10	15-30	
	Note1)	Note2)	Note1)	Note2)			Note1)	Note2)			Note1)	Note2)	Note1)	Note2)	Note1)	Note2)	Note1)	Note2)	
Ø32	23	33	54	64	10	11	66	76	6	8	33	43	64	74	11	76	86	8	
Ø40	29.5	39.5	60.5	70.5	10	11.5	74.5	84.5	10	11.5	39.5	49.5	70.5	80.5	11.5	84.5	94.5	11.5	
Ø50	30.5	40.5	62.5	72.5	-	12	76.5	86.5	-	12	40.5	50.5	72.5	82.5	12	86.5	96.5	12	

Note 1) Ø50 : 10-20.

Note 2) Ø40 : 15-50 / Ø50 : 25-50.

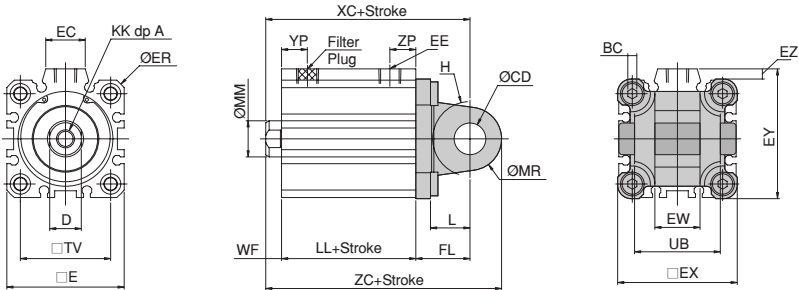
# Compact Cylinder

## Dimensions

(Unit : mm)

### Spring Return Double Clevis / CB(Non Magnet / Built in Magnet)

- Bore Ø32-Ø50



Bore	A	BC	CD	D	E	EC	EE	ER	EX	EY	EZ	EW	FL	H	KK	L	MM	MR	TV	UB	WF
Ø32	13	4	Ø12H9/f8	14	45	15	Rc1/8	60	45	49.5	4.5	16 <sup>+0.2</sup> <sub>-0.5</sub>	24	R16.5	M8X1.25	16.5	16	R12	34	31	7
Ø40	13	4	Ø14H9/f8	14	52	17.5	Rc1/8	69	53	57.5	4.5	20 <sup>+0.7</sup> <sub>-0.5</sub>	24	R18	M8X1.25	16	16	R14	40	38	7
Ø50	15	5	Ø14H9/f8	17	64	19	Rc1/4	85	64	71	7	20 <sup>+0.7</sup> <sub>-0.5</sub>	24	R21	M10X1.5	16	20	R14	50	49	8

Bore	None Magnet								Built in Magnet											
	LL		XC		YP		ZC		ZP		LL		XC		YP	ZC		ZP		
	5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	5	10 over		5-10 Note1)	15-30 Note2)	5	10 over		5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	5-10 Note1)	15-30 Note2)	11.5	8
Ø32	23	33	54	64	10	11		66	76	6	8		33	43	64	74	11	76	86	8
Ø40	29.5	39.5	60.5	70.5	10	11.5		74.5	84.5	10	11.5		39.5	49.5	70.5	80.5	11.5	84.5	94.5	11.5
Ø50	30.5	40.5	62.5	72.5	-	12		76.5	86.5	-	12		40.5	50.5	72.5	82.5	12	86.5	96.5	12

Note 1) Ø50 : 10-20.

Note 2) Ø40 : 15-50 / Ø50 : 25-50.

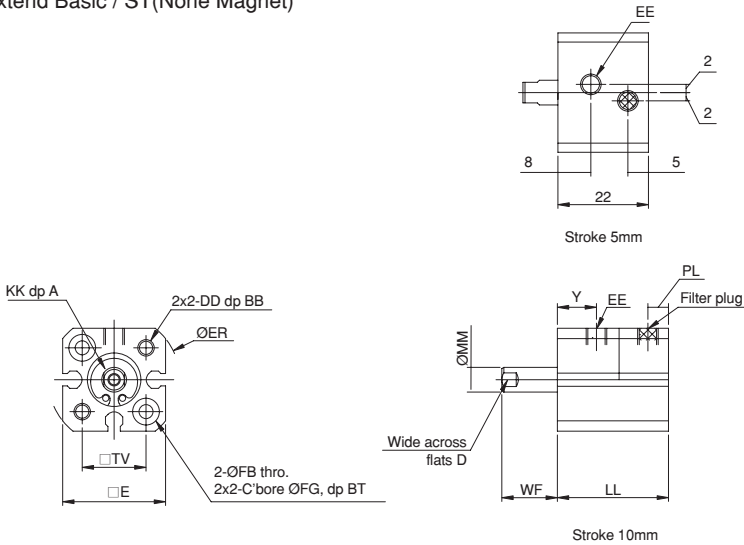
# Single Acting P10S-7SH Series

## Dimensions

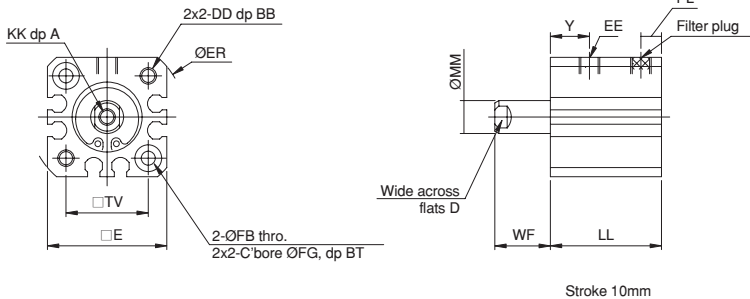
(Unit : mm)

### Spring Extend Basic / ST(Non Magnet)

- Bore  $\varnothing 12$



- Bore  $\varnothing 16$



Bore	A	BB	BT	D	DD	E	EE	ER	FB	FG	KK	MM	PL		TV	Y	
													5	10 over		5	10 over
$\varnothing 12$	6	8	3.5	5	M4X0.7	25	M5X0.8	32	3.5	6.5	M3X0.5	6	5	5	15.5	8	9.5
$\varnothing 16$	8	8	3.5	6	M4X0.7	29	M5X0.8	38	3.5	6.5	M4X0.7	8	5	5	20	8	9.5

Bore	LL			WF		
	5	10	20	5	10	15
$\varnothing 12$	22	27	—	8.5	13.5	—
$\varnothing 16$	22	27	—	8.5	13.5	—

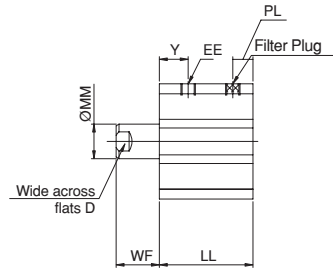
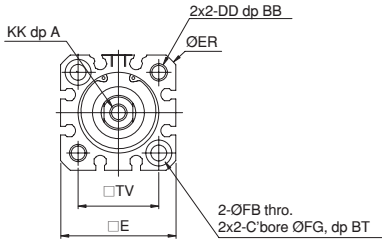
# Compact Cylinder

## Dimensions

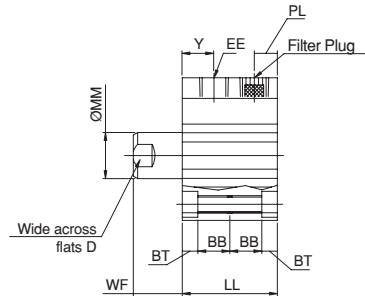
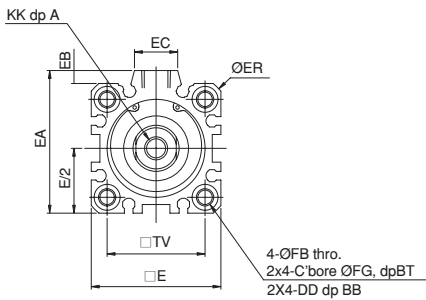
(Unit : mm)

### Spring Extend Basic / ST(Non Magnet)

- Bore  $\varnothing 20$ - $\varnothing 25$



- Bore  $\varnothing 32$ - $\varnothing 50$



Bore	A	BB	BT	D	DD	E	EA	EB	EC	EE	ER	FB	FG	KK	MM	PL		TV	Y	
																5	10 over		5	10 over
$\varnothing 20$	7	10	5.4	8	M6X1	36	-	-	-	M5X0.8	47	5.5	9	M5X0.8	10	6	7	25.5	9	10
$\varnothing 25$	12	10	5.4	10	M6X1	40	-	-	-	M5X0.8	52	5.5	9	M6X1	12	6	7	28	9	10
$\varnothing 32$	13	12	5.4	14	M6X1	45	49.5	4.5	15	Rc1/8	60	5.2	9	M8X1.25	16	6	8	34	10	11
$\varnothing 40$	13	12	5.4	14	M6X1	52	57	5	17.5	Rc1/8	69	5.2	9	M8X1.25	16	10	11.5	40	10	11.5
$\varnothing 50$	15	14	8	17	M8X1.25	64	71	7	19	Rc1/4	85	6.5	11	M10X1.5	20	-	12	50	-	12

Bore	LL			WF		
	5	10	20	5	10	20
$\varnothing 20$	26.5	31.5	-	9.5	14.5	-
$\varnothing 25$	27.5	32.5	-	10	15	-
$\varnothing 32$	28	33	-	12	17	-
$\varnothing 40$	34.5	39.5	-	12	17	-
$\varnothing 50$		40.5	50.5	18	28	



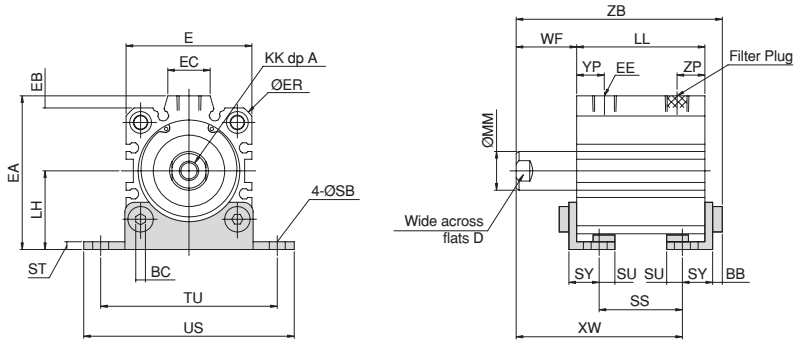
# Single Acting / P10S-7SH Series

## Dimensions

(Unit : mm)

### Spring Extend End Angles Foot / LA(Non Magnet)

- Bore Ø32-Ø50



Note) Foot mount is available for over than 10mm stroke.

Bore	A	BB	BC	D	E	EA	EB	EC	EE	ER	KK	LH	LL			MM	SB
													5	10	20		
Ø32	13	4	4	14	45	55.5	4.5	15	Rc1/8	60	M8X1.25	28.5	-	33	-	16	6.6
Ø40	13	4	4	14	52	63.5	5	17.5	Rc1/8	69	M8X1.25	32.5	34.5	39.5	-	16	6.6
Ø50	15	5	5	17	64	77	7	19	Rc1/4	85	M10X1.5	38	-	40.5	50.5	20	9

Bore	SS			ST	SU	SY	TU	US	WF			XW			YP		ZB			ZP	
	5	10	20						5	10	20	5	10	20	5	10 over	5	10	20	5	10 over
Ø32	-	14.4	-	3.2	6.5	12.5	65	78	-	17	-	-	40.7	-	-	11	-	57.2	-	6	8
Ø40	15.9	20.9	-	3.2	6.5	12.5	73	87	12	17	-	37.2	47.2	-	10	11.5	53.7	63.7	-	10	11.5
Ø50	-	18.9	28.9	3.2	8	14	87	103	-	18	28	-	47.7	67.7	-	12	-	66.7	86.7	-	12

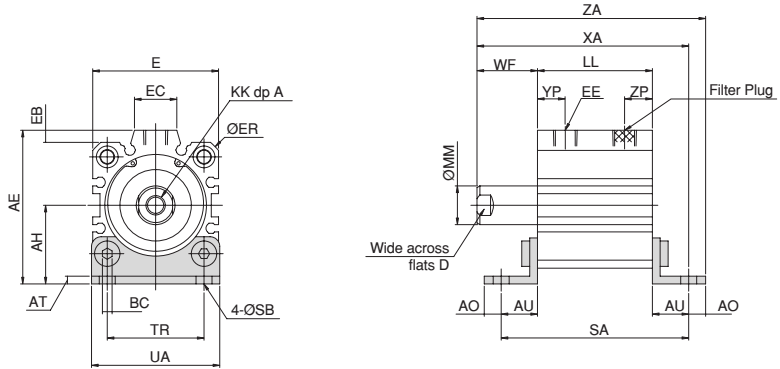
# Compact Cylinder

## Dimensions

(Unit : mm)

### Spring Extend Side Luge Foot / LB(Non Magnet)

- Bore Ø32-Ø50



Bore	A	AE	AH	AO	AT	AU	BC	D	E	EB	EC	EE	ER	KK	LL			MM
															5	10	20	
Ø32	13	55.5	28.5	7	3.2	15	4	14	45	4.5	15	Rc1/8	60	M8X1.25	28	33	—	16
Ø40	13	63.5	32.5	7	3.2	15	4	14	52	5	17.5	Rc1/8	69	M8X1.25	34.5	39.5	—	16
Ø50	15	77	38	9	3.2	18	5	17	64	7	19	Rc1/4	85	M10X1.5	—	40.5	50.5	20

Bore	SA			SB	TR	UA	WF			XA			YP		ZA			ZP	
	5	10	20				5	10	20	5	10	20	5	10over	5	10	20	5	10over
Ø32	58	63	—	6.6	34	45	12	17	—	55	65	—	10	11	62	72	—	6	8
Ø40	64.5	69.5	—	6.6	40	53	12	17	—	61.5	71.5	—	10	11.5	68.5	78.5	—	10	11.5
Ø50	—	76.5	86.5	9	50	64	—	18	28	—	76.5	96.5	—	12	—	85.5	105.5	—	12

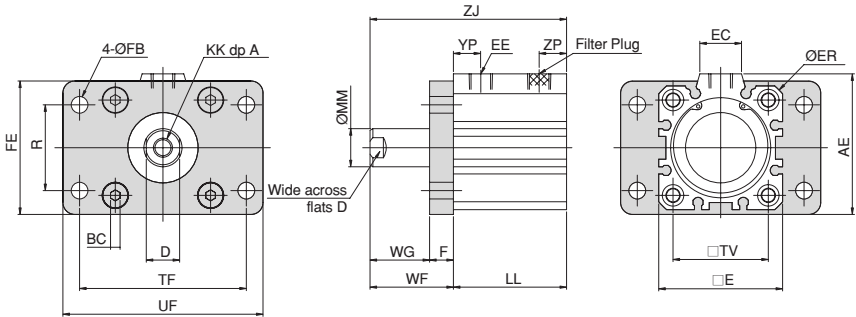
# Single Acting / P10S-7SH Series

## Dimensions

(Unit : mm)

### Spring Extend Flange - Head Side / FA(None Magnet)

- Bore Ø32-Ø50



Bore	A	AE	BC	D	E	EC	EE	ER	F	FB	FE	KK	LL			MM	R	TV	TF
													5	10	20				
Ø32	13	51	4	14	45	15	Rc1/8	60	8	7	48	M8X1.25	28	33	-	16	33	34	58
Ø40	13	59	4	14	52	17.5	Rc1/8	69	10	7	56	M8X1.25	34.5	39.5	-	16	36	40	70
Ø50	15	74	5	17	64	19	Rc1/4	85	10	9	70	M10X1.5	-	40.5	50.5	20	47	50	86

Bore	UF	WF			WG			YP		ZJ			ZP	
		5	10	20	5	10	20	5	10 over	5	10	20	5	10 over
Ø32	72	20	25	-	12	17	-	10	11	48	58	-	6	8
Ø40	84	22	27	-	12	17	-	10	11.5	56.5	66.5	-	10	11.5
Ø50	104	-	28	38	-	18	28	-	12	-	68.5	88.5	-	12

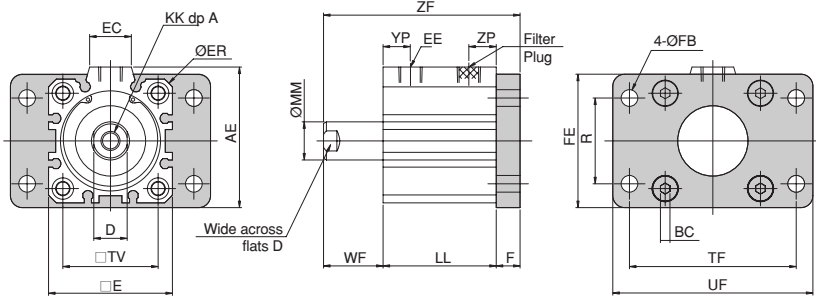
# Compact Cylinder

## Dimensions

(Unit : mm)

### Spring Extend Flange - Cap Side / FB(None Magnet)

- Bore  $\varnothing 32$ - $\varnothing 50$



Bore	A	AE	BC	D	E	EC	EE	ER	F	FB	FE	KK	LL			MM	R	TV	TF
													5	10	20				
$\varnothing 32$	13	51	4	14	45	15	Rc1/8	60	8	7	48	M8X1.25	28	33	-	16	33	34	58
$\varnothing 40$	13	59	4	14	52	17.5	Rc1/8	69	10	7	56	M8X1.25	34.5	39.5	-	16	36	40	70
$\varnothing 50$	15	74	5	17	64	19	Rc1/4	85	10	9	70	M10X1.5	-	40.5	50.5	20	47	50	86

Bore	UF	WF			YP		ZF			ZP	
		5	10	20	5	10 over	5	10	20	5	10 over
$\varnothing 32$	72	12	17	-	10	11	48	58	-	6	8
$\varnothing 40$	84	12	17	-	10	11.5	56.5	66.5	-	10	11.5
$\varnothing 50$	104	-	18	28	-	12	68.5	88.5	-	12	

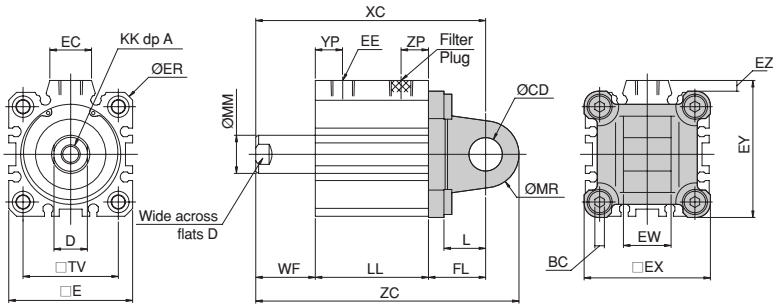
# Single Acting / P10S-7SH Series

## Dimensions

(Unit : mm)

### Spring Extend Single Clevis / CA(Non Magnet)

- Bore Ø32-Ø50



Bore	A	BC	CD	D	E	EC	EE	ER	EX	EY	EZ	EW	FL	KK	L	LL			MM
																5	10	20	
Ø32	13	4	Ø12H9	14	45	15	Rc1/8	60	45	49.5	4.5	16 <sup>0</sup> <sub>-0.070</sub>	24	M8X1.25	16.5	28	33	-	16
Ø40	13	4	Ø14H9	14	52	17.5	Rc1/8	69	53	57.5	4.5	20 <sup>0</sup> <sub>-0.084</sub>	24	M8X1.25	16	34.5	39.5	-	16
Ø50	15	5	Ø14H9	17	64	19	Rc1/4	85	64	71	7	20 <sup>0</sup> <sub>-0.084</sub>	24	M10X1.5	16	-	40.5	50.5	20

Bore	MR	TV	WF			WG			YP		ZC			ZP	
			5	10	20	5	10	20	5	10 over	5	10	20	5	10 over
Ø32	R12	34	12	17	-	64	74	-	10	11	76	86	-	6	8
Ø40	R12	40	12	17	-	70.5	80.5	-	10	11.5	84.5	94.5	-	10	11.5
Ø50	R14	50	-	18	28	-	82.5	102.5	-	12	-	96.5	116.5	-	12

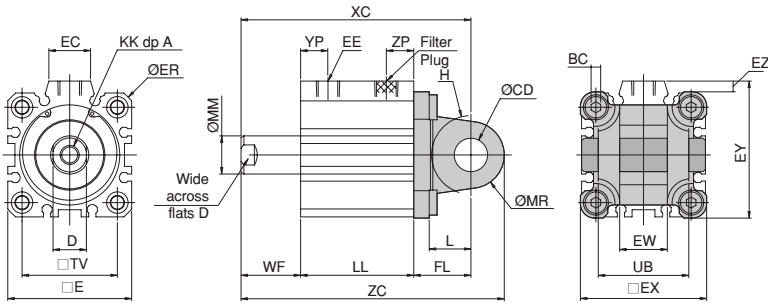
# Compact Cylinder

## Dimensions

(Unit : mm)

### Spring Extend Double Clevis / CB(Non Magnet)

- Bore Ø32-Ø50



Bore	A	BC	CD	D	E	EC	EE	ER	EX	EY	EZ	EW	FL	H	KK	L
Ø32	13	4	Ø12H9/f8	14	45	15	Rc1/8	60	45	49.5	4.5	16 <sup>+0.7</sup> <sub>+0.5</sub>	24	R16.5	M8X1.25	16.5
Ø40	13	4	Ø14H9/f8	14	52	17.5	Rc1/8	69	53	57.5	4.5	20 <sup>+0.7</sup> <sub>+0.5</sub>	24	R18	M8X1.25	16
Ø50	15	5	Ø14H9/f8	17	64	19	Rc1/4	85	64	71	7	20 <sup>+0.7</sup> <sub>+0.5</sub>	24	R21	M10X1.5	16

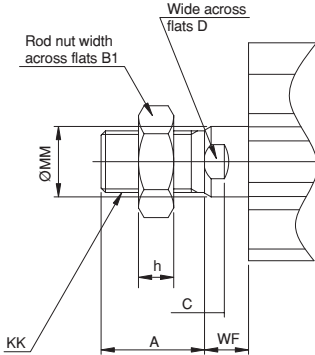
Bore	LL			MM	MR	TV	UB	WF			XC			YP		ZC			ZP	
	5	10	20					5	10	20	5	10	20	5	10 over	5	10	20	5	10 over
Ø32	28	33	-	16	R12	34	31	12	17	-	64	74	-	10	11	76	86	-	6	8
Ø40	34.5	39.5	-	16	R12	40	38	12	17	-	70.5	80.5	-	10	11.5	84.5	94.5	-	10	11.5
Ø50	-	40.5	50.5	20	R14	50	49	-	18	28	-	82.5	102.5	-	12	-	96.5	116.5	-	12

## Dimensions

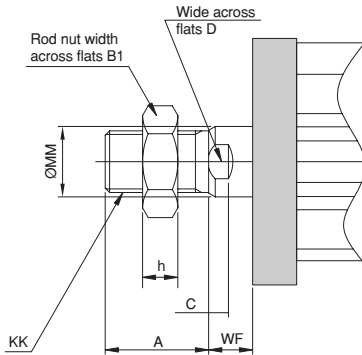
(Unit : mm)

### Male Thread

- Types other than Flange type(Head Side)  
Bore  $\varnothing 12\sim\varnothing 100$



- Flange type(Head Side)  
Bore  $\varnothing 12\sim\varnothing 100$

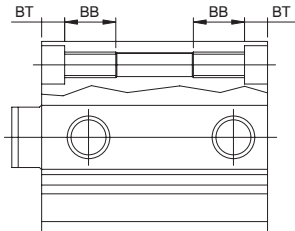


Note) In case of Head Side Flange type, the dimension "WF" becomes When ordering this type. be careful of the dimension "WF"

Bore	A	B1	C	D	h	KK	MM	WF	
								Except FA	FA type
$\varnothing 12$	10.5	8	-	5	3.2	M5X0.8	6	3.5	-
$\varnothing 16$	12	10	-	6	3.6	M6X1	8	3.5	-
$\varnothing 20$	14	13	4	8	5	M8X1.25	10	4.5	-
$\varnothing 25$	17.5	17	4.5	10	6	M10X1.25	12	5	-
$\varnothing 32$	23.5	22	4.5	14	8	M14X1.5	16	5	13
$\varnothing 40$	23.5	22	4.5	14	8	M14X1.5	16	5	15
$\varnothing 50$	28.5	24	4	17	11	M18X1.5	20	5	15
$\varnothing 63$	28.5	24	4	17	11	M18X1.5	20	5	15
$\varnothing 80$	35.5	30	7	22	13	M22X1.5	25	8	24
$\varnothing 100$	35.5	41	7	27	16	M26X1.5	30	8	24

### Both End Tapped / Double Acting and Single Acting (ST)

- Bore  $\varnothing 20\sim\varnothing 100$

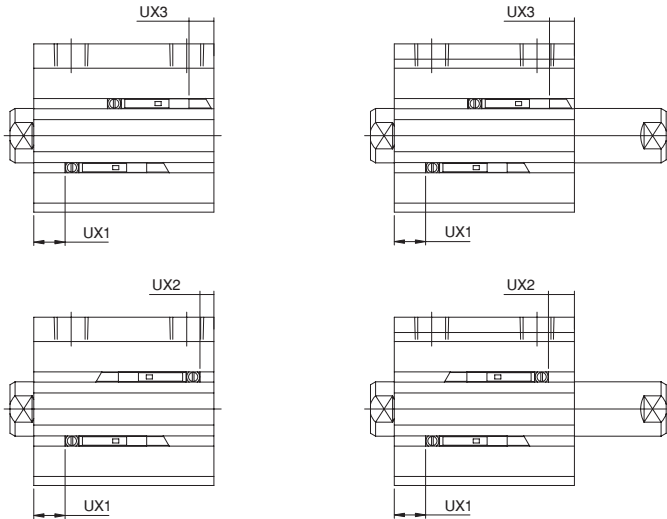


Bore	$\varnothing 20$	$\varnothing 25$	$\varnothing 32$	$\varnothing 40$	$\varnothing 50$	$\varnothing 63$	$\varnothing 80$	$\varnothing 100$
BB	10	10	12	12	14	18	22	22
BT	5.4	5.4	5.4	5.4	8	10.5	13.5	13.5

# Compact Cylinder

## Sensor Detecting Position

(단위 : mm)



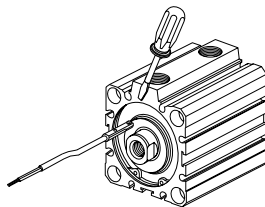
Bore	PD Reed type		PD/PE Solid type	
	Working Range	Difference	Working Range	Difference
Ø12	6~8.5	Less than 1.5	2~4	Less than 1
Ø16	7.5~10		2~4.5	
Ø20	10~13		3.5~6.5	
Ø25	10~14		4~6.5	
Ø32	9.5~12.5		3.5~6	
Ø40	9.5~13		3.5~6	
Ø50	10.5~14		3.5~7.5	
Ø63	11.5~15.5	4~7.5		
Ø80	10~15.5	Less than 2	4.5~8	Less than 1.5
Ø100	12~16.5	5~8		

Bore	2 Sensor	1 Sensor
Ø12~Ø16	5	5
Ø20~Ø100	10 (Note)	10

Note) 2 Sensor can be mounted at the stroke 5mm.  
In this case, pay attention that Sensor are not overlapped.

### Sensor Install Method

1. Loosen the screw fixing the switch.
2. Insert the switch in the switch mounting groove in the cylinder body from either head or rod side and side the switch.
3. Fix the switch in the optimum setting position and tighten the switch fixing screw. Tighten the screw to the torque of about  $0.1N \cdot m \sim 0.2N \cdot m$  ( $1 \text{ kgf} \cdot \text{cm} \sim 2 \text{ kgf} \cdot \text{cm}$ ).
4. In the case of a switch with an indicating lamp, the indicating lamp comes on when the switch is actuated.





## Dimensions

(Unit : mm)

### Reed Type

#### Double Acting Single Rod

Bore	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
UX1	0	0	4.7	5	6.3	8.9	8.5	11	14	27.8
UX2	-3.6	-3.2	0.8	1.7	0.7	4.7	6	9	13.5	19.3
UX3	-1.4	-1.2	2.8	3.7	2.7	6.7	8	22	15.5	21.3

#### Double Acting Double Rod

Bore	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
UX1	0	0	4.7	5	6.3	8.9	8.5	11	14	27.8
UX2	-1.5	-1.5	0.2	0	1.3	3.9	3.9	6	9	12
UX3	-0.5	-0.5	2.7	2	3.3	5.9	5.9	8	11	14

### Solid state type

#### Double Acting Single Rod

Bore	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
UX1	5.5	5.2	10.7	11	12.3	14.9	14.5	17	20	23
UX2	2.6	2.8	6.8	7.7	6.7	10.7	12	15	19.5	25.3
UX3	-7.4	-7.2	-3.2	-2.3	-3.3	0.7	2	5	9.5	15.3

#### Double Acting Double Rod

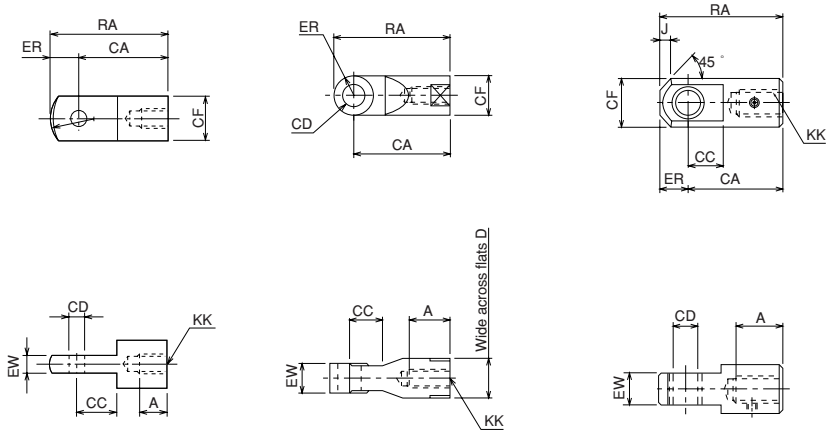
Bore	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
UX1	5.5	5.2	10.7	11	12.3	14.9	14.5	17	20	23
UX2	3.5	3.5	6.7	6	7.3	9.9	9.9	12	15	18
UX3	-6.5	-6.5	-3.3	-4	-2.7	-0.1	-0.1	2	5	7

# Compact Cylinder

## Accessories

(Unit : mm)

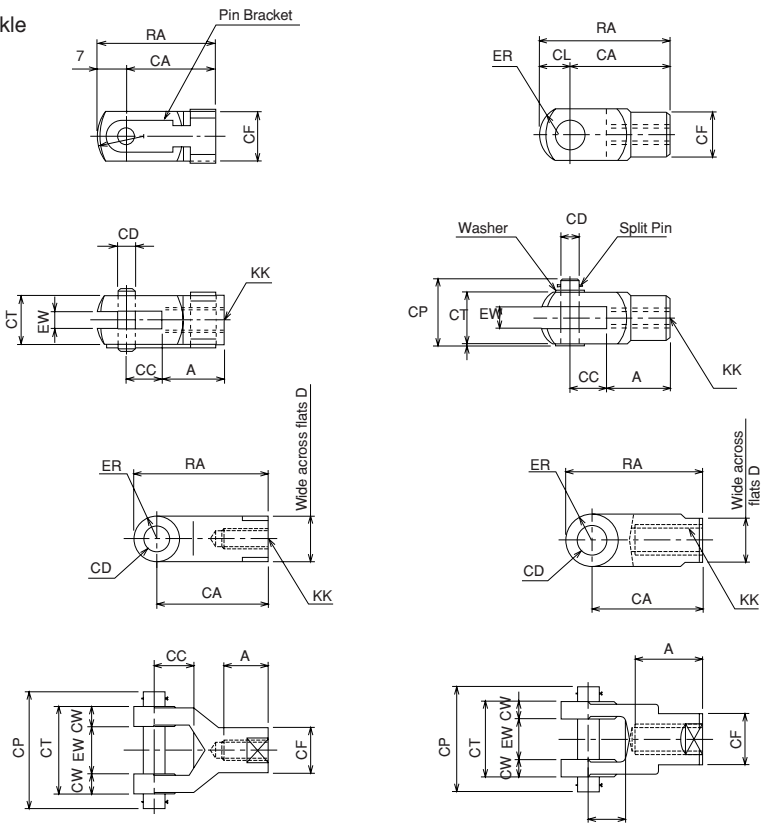
### I Knuckle



Bore	Part No.	AC	AC	CC	CD	CF	D	ER	EW	J	KK	RA
Ø12	RTA-05-A	8	25	14	Ø5.1	□12			6.4		M5X0.8	32
Ø16	RTA-06-A	8	25	14	Ø5.1	□12			6.4		M6X1	32
Ø32	RTA-14-A	25	60	20	Ø14H9	Ø24	24	R12	20 <sup>0</sup> <sub>-0.1</sub>		M14X1.5	72
Ø40		25	60	20	Ø14H9	Ø24	24	R12	20 <sup>0</sup> <sub>-0.1</sub>		M14X1.5	72
Ø50	RTA-18-1-A	33	60	20	Ø14H9	Ø28	27	R14	20 <sup>0</sup> <sub>-0.1</sub>		M18X1.5	74
Ø63		33	60	20	Ø14H9	Ø28	27	R14	20 <sup>0</sup> <sub>-0.1</sub>		M18X1.5	74
Ø80	RTA-22-1-A	41	85	30	Ø20H9	Ø36	36	R19	32 <sup>0</sup> <sub>-0.1</sub>		M22X1.5	104
Ø100	RTA-26-A	56	100	32	Ø20H9	Ø49	-	20	32 <sup>0</sup> <sub>-0.1</sub>	13	M26X1.5	120

## Accessories

### Y Knuckle



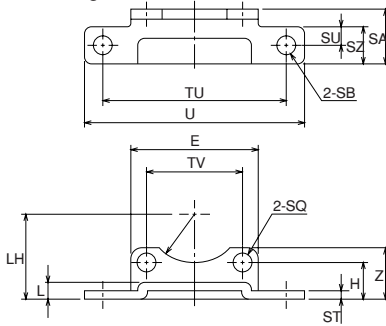
Bore	Part No.	AC	CA	CC	CD	CF	CL	CP	CT	CW	D	ER	EW	KK	PF	PL	RA
Ø12	RYA-05-A		21	10	Ø5.1	12			□12				6.5	M5X0.8			28
Ø16	RYA-06-A		24	12	Ø6H8/f7	10			□12				6	M6X1			31
Ø20	RYA-08-A	16	32	16	Ø8H8/f7	14	10	24.5	□16				8 <sup>+0.40</sup> <sub>-0.15</sub>	M8X1.25	2		42
Ø25	RYA-10-A	20	40	20	Ø10H8/f7	18	12	30	□20				10 <sup>+0.40</sup> <sub>-0.15</sub>	M10X1.25	2.5		52
Ø32	RYA-14-A	25	60	20	Ø14H9/f8	24		58	44	12	24	R12	20 <sup>+1.5</sup> <sub>-0.5</sub>	M14X1.5			72
Ø40	RYA-14-A	25	60	20	Ø14H9/f8	24		58	44	12	24	R12	20 <sup>+1.5</sup> <sub>-0.5</sub>	M14X1.5			72
Ø50	RYA-18-1-A	33	60	18	Ø14H9/f8	28		58	44	12	27	R14	20 <sup>+1.5</sup> <sub>-0.5</sub>	M18X1.5			74
Ø63	RYA-18-1-A	33	60	18	Ø14H9/f8	28		58	44	12	27	R14	20 <sup>+1.5</sup> <sub>-0.5</sub>	M18X1.5			74
Ø80	RYA-22-1-A	41	85	28	Ø20H9/f8	36		78	64	16	36	R19	32 <sup>+1.5</sup> <sub>-0.5</sub>	M22X1.5			104
Ø100	RYA-26-A	56	100	32	Ø20H9	49		78	64	16	40	R20	32 <sup>+1.5</sup> <sub>-0.5</sub>	M26X1.5			120

# Compact Cylinder

## Accessories

### End Angles Foot Mounting

(Unit : mm)

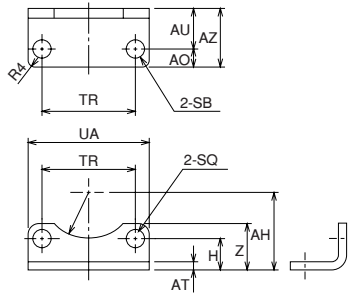


• With body mounting bolts

Bore	Part No.	E	H	L	LH	R	SA	SB	SQ	ST	SU	SZ	TU	TV	US	Z
Ø32	MAS6-LA032	45	11.5	6	28.5	R17	19	Ø6.6	Ø6.6	3.2	6.5	13	65	34	78	17
Ø40	MAS6-LA040	53	12.5	6	32.5	R21	19	Ø6.6	Ø6.6	3.2	6.5	13	73	40	87	19.5
Ø50	MAS6-LA050	64	13	6	38	R26	22	Ø9	Ø9	3.2	8	16	87	50	103	20
Ø63	MAS6-LA063	77	14.5	6	44.5	R27	25	Ø11	Ø11	3.2	9.5	19	109	60	127	23.5
Ø80	MAS6-LA080	100	20	8.5	58.5	R33	32	Ø14	Ø14	4.5	11	22	123	77	145	31
Ø100	MAS6-LA100	117	20	8.5	67		32	Ø14	Ø14	4.5	11	22	137	94	159	31

### Side Luge Foot Mounting

(Unit : mm)



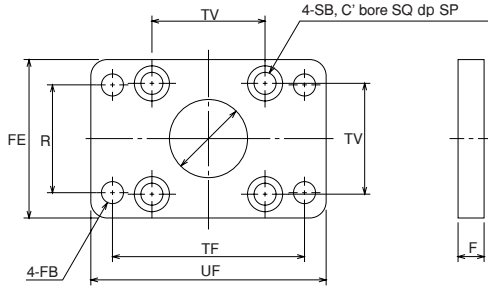
• With body mounting bolts

Bore	Part No.	AH	AO	AT	AU	AZ	H	R	SB	SQ	TR	UA	Z
Ø32	MAS6-LB032	28.5	7	3.2	15	22	11.5	R17	Ø6.6	Ø6.6	34	45	17
Ø40	MAS6-LB040	32.5	7	3.2	15	22	12.5	R21	Ø6.6	Ø6.6	40	53	19
Ø50	MAS6-LB050	38	9	3.2	18	27	13	R26	Ø9	Ø9	50	64	20
Ø63	MAS6-LB063	44.5	11	3.2	20	31	14.5	R27	Ø11	Ø11	60	77	23.5
Ø80	MAS6-LB080	58.5	14	4.5	25	39	20	R33	Ø14	Ø14	77	100	31
Ø100	MAS6-LB100	67	14	4.5	25	39	20		Ø14	Ø14	94	117	31

## Accessories

### Flange

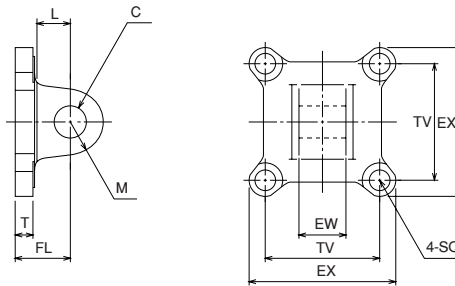
(Unit : mm)



• With body mounting bolts

Bore	Part No.	F	FB	FE	R	SB	SP	SQ	TF	TV	UF	Z
Ø32	MAS6-FA032	8	Ø7	48	33	Ø6.6	4.5	11	58	34	72	Ø24
Ø40	MAS6-FA040	10	Ø7	56	36	Ø6.6	4.5	11	70	40	84	Ø30
Ø50	MAS6-FA050	10	Ø9	70	47	Ø9	5.5	15	86	50	104	Ø37
Ø63	MAS6-FA063	10	Ø9	84	56	Ø11	6.5	19	98	60	116	Ø41
Ø80	MAS6-FA080	16	Ø12	105	70	Ø14	7.5	22	126	77	150	Ø51
Ø100	MAS6-FA100	16	Ø12	121	84	Ø14	7.5	22	143	94	165	Ø56

### Single Clevis



• With body mounting bolts

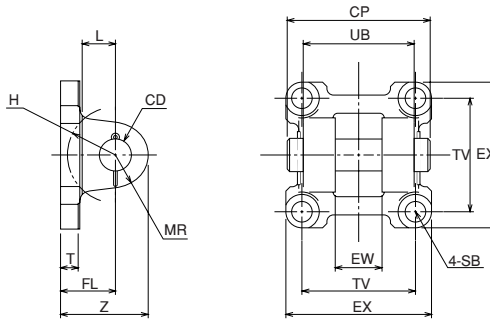
Bore	Part No.	CD	EW	EX	FL	L	MR	SQ	T	TV
Ø32	MAS6-CA032	Ø12H9 <sup>+0.043</sup> <sub>0</sub>	16 <sup>0</sup> <sub>-0.084</sub>	45	24	16.5	R12	Ø6.6	6	34
Ø40	MAS6-CA040	Ø14H9 <sup>+0.043</sup> <sub>0</sub>	20 <sup>0</sup> <sub>-0.084</sub>	53	24	16	R14	Ø6.6	6.5	40
Ø50	MAS6-CA050	Ø14H9 <sup>+0.043</sup> <sub>0</sub>	20 <sup>0</sup> <sub>-0.084</sub>	64	24	16	R14	Ø9	6.5	50
Ø63	MAS6-CA063	Ø14H9 <sup>+0.043</sup> <sub>0</sub>	20 <sup>0</sup> <sub>-0.084</sub>	77	24	16	R14	Ø11	6.5	60
Ø80	MAS6-CA080	Ø20H9 <sup>+0.052</sup> <sub>0</sub>	32 <sup>0</sup> <sub>-0.100</sub>	100	32	21	R19	Ø14	9.5	77
Ø100	MAS6-CA100	Ø20H9 <sup>+0.052</sup> <sub>0</sub>	32 <sup>0</sup> <sub>-0.100</sub>	117	32	21	R19	Ø14	9.5	94

# Compact Cylinder

## Accessories

### Double Clevis

(Unit : mm)



• With body mounting bolts

Bore	Part No.	CD	CP	EW	EX	FL	H	L	MR	SB	T	TV	UB	Z
Ø32	MAS6-CB032	Ø12H9/f8	46	16 <sup>+0.7</sup> / <sub>+0.5</sub>	45	24	R17	16.5	R12	Ø6.6	6	34	31	36
Ø40	MAS6-CB040	Ø14H9/f8	52	20 <sup>+0.7</sup> / <sub>+0.5</sub>	53	24	R18	15	R14	Ø6.6	7.5	40	38	38
Ø50	MAS6-CB050	Ø14H9/f8	63	20 <sup>+0.7</sup> / <sub>+0.5</sub>	64	24	R21	15	R14	Ø9	7.5	50	49	38
Ø63	MAS6-CB063	Ø14H9/f8	66	20 <sup>+0.7</sup> / <sub>+0.5</sub>	77	24	R22	15	R14	Ø11	7.5	60	52	38
Ø80	MAS6-CB080	Ø20H9/f8	78	32 <sup>+0.7</sup> / <sub>+0.5</sub>	100	32	R30	20	R19	Ø14	10.5	77	64	51
Ø100	MAS6-CB100	Ø20H9/f8	78	32 <sup>+0.7</sup> / <sub>+0.5</sub>	117	32	R30	20	R19	Ø14	10.5	94	64	51

# Compact Cylinder / Non-Rotating type

# P10S-7G Series

Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

## ORDER KEY

P10S - 7 **R** **G** ST **040** **N** **030** **T**

①
②
③
④
⑤
⑥

### 1. Magnet

Blank	None Magnet
R	Built in Magnet

### 2. Cylinder Option

G	Non-Rotating Cylinder
---	-----------------------

### 3. Bore(mm)

020	Ø 20	050	Ø 50
025	Ø 25	063	Ø 63
032	Ø 32	080	Ø 80
040	Ø 40	100	Ø 100

### 4. Cushion

N	Bumper Cushion(Standard)
---	--------------------------

### 5. Stroke(mm)

### 6. Rod Thread

N	Female Thread
T	Male Thread

## Specifications

Acting	Unit	Double Acting
Fluid		Air
Operating Pressure Range	Mpa	Ø20 ~ Ø50 : 0.1 ~ 1    Ø63 ~ Ø100 : 0.05 ~ 1
Proof Pressure	Mpa	1.5
Operating Temperature	℃	-10 ~ 70
Piston Speed	mm/s	Ø40 : 100 ~ 500
		Ø50 ~ Ø100 : 100 ~ 300
Cushion		Bumper Cushion
Stroke Tolerance	mm	+1.0
		0

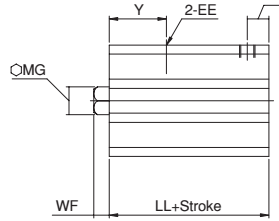
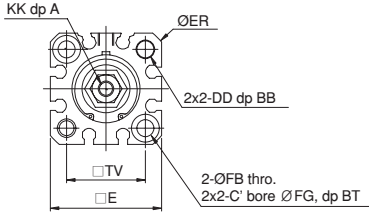
# Compact Cylinder

## Dimensions

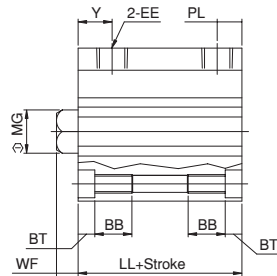
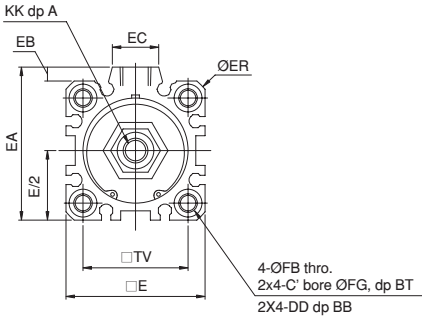
(Unit : mm)

### Double Acting Single Rod(Non Magnet / Built in Magnet)

- Bore : Ø20, Ø25



- Bore : Ø25~Ø100



Bore	A	BB	BT	DD	E	EA	EB	EC	EE	ER	FB	FG	KK	MG	TV	WF
Ø20	6	10	5.4	M6X1	36	-	-	-	M5X0.8	47	5.5	9	M5X0.8	9	25.5	4.5
Ø25	6	10	5.4	M6X1	40	-	-	-	M5X0.8	52	5.5	9	M5X0.8	9	28	5
Ø32	13	12	5.4	M6X1	45	49.5	4.5	15	Rc1/8	60	5.5	9	M8X1.25	14	34	7
Ø40	13	12	5.4	M6X1	52	57	5	17.5	Rc1/8	69	5.5	9	M8X1.25	14	40	7
Ø50	15	15	8	M8X1.25	64	71	7	19	Rc1/4	85	6.6	11	M10X1.5	19	50	8
Ø63	15	18	10.5	M10X1.5	77	84	7	19	Rc1/4	102	9	14	M10X1.5	19	60	8
Ø80	21	22	13.5	M12X1.75	98	104	6	25	Rc3/8	130	11	17.5	M16X2	23	77	10
Ø100	21	22	13.5	M12X1.75	117	123.5	6.5	25	Rc3/8	156	11	17.5	M16X2	23	94	12

Bore	None Magnet					Built in Magnet		
	LL	PL		Y		LL	PL	Y
		5st	10st over	5st	10st over			
Ø20	30	6	7	17.5	18.5	40	7	18.5
Ø25	31	6	7	17.5	17.5	41	7	17.5
Ø32	35	6	8	17	17	45	8	17
Ø40	35	9	11.5	17.5	19.5	45	11.5	19.5
Ø50	37	-	10.5	-	17.5	47	10.5	17.5
Ø63	41	-	10.5	-	20	51	10.5	20
Ø80	51.5	-	12.5	-	22	61.5	12.5	22
Ø100	58	-	14	-	23	68	14	23



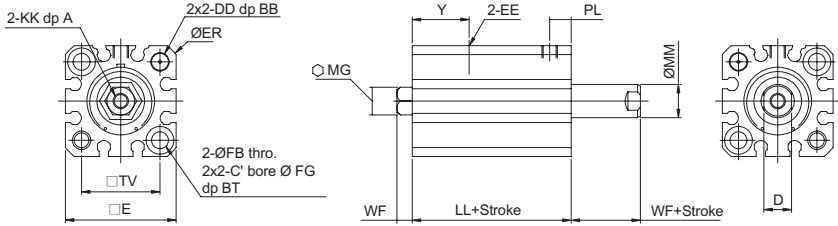
# Non Rotating Cylinder P10S-7G Series

## Dimensions

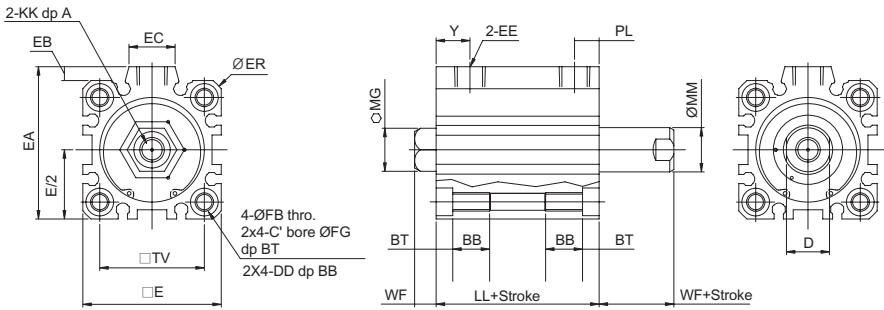
(Unit : mm)

### Double Acting Double Rod(Non Magnet / Built in Magnet)

- Bore :  $\varnothing 20, \varnothing 25$



- Bore :  $\varnothing 32\text{--}\varnothing 100$



Bore	A	BB	BT	D	DD	E	EA	EB	EC	EE	ER	FB	FG	KK	MM	MG
$\varnothing 20$	6	10	5.4	8	M6X1	36	-	-	-	M5X0.8	47	5.5	9	M5X0.8	10	9
$\varnothing 25$	6	10	5.4	10	M6X1	40	-	-	-	M5X0.8	52	5.5	9	M5X0.8	12	9
$\varnothing 32$	13	12	5.4	14	M6X1	45	49.5	4.5	15	Rc1/8	60	5.5	9	M8X1.25	16	14
$\varnothing 40$	13	12	5.4	14	M6X1	52	57	5	17.5	Rc1/8	69	5.5	9	M8X1.25	16	14
$\varnothing 50$	15	15	8	17	M8X1.25	64	71	7	19	Rc1/4	85	6.6	11	M10X1.5	20	19
$\varnothing 63$	15	18	10.5	17	M10X1.5	77	84	7	19	Rc1/4	102	9	14	M10X1.5	20	19
$\varnothing 80$	21	22	13.5	22	M12X1.75	98	104	6	25	Rc3/8	130	11	17.5	M16X2	25	23
$\varnothing 100$	21	22	13.5	27	M12X1.75	117	123.5	6.5	25	Rc3/8	156	11	17.5	M16X2	30	23

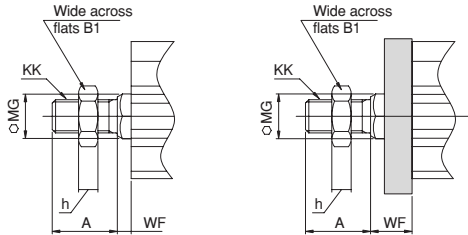
Bore	TV	WF	PL	Y	LL	
					None Magnet	Built in Magnet
$\varnothing 20$	25.5	4.5	10	18.5	35	45
$\varnothing 25$	28	5	10	17.5	36	46
$\varnothing 32$	34	7	11	17	45	55
$\varnothing 40$	40	7	11.5	19.5	40	50
$\varnothing 50$	50	8	10.5	17.5	42	52
$\varnothing 63$	60	8	10.5	20	46	56
$\varnothing 80$	77	10	12.5	22	61.5	71.5
$\varnothing 100$	94	12	14	23	68	78

# Compact Cylinder

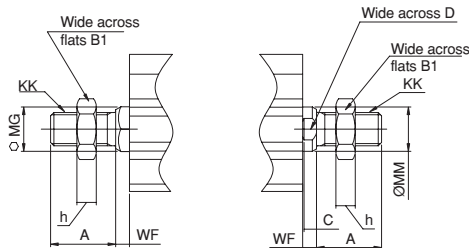
## Dimensions

(Unit : mm)

### Double Acting Single Rod / Male Thread



Bore	A	B1	h	KK	MG	WF	
						Except FA	FA type
Ø20	14	13	5	M8X1.25	9	4.5	–
Ø25	17.5	13	5	M8X1.25	9	5	–
Ø32	23.5	19	7	M12X1.5	14	5	13
Ø40	23.5	19	7	M12X1.5	14	5	15
Ø50	28.5	24	11	M16X1.5	19	5	15
Ø63	28.5	24	11	M16X1.5	19	5	15
Ø80	35.5	30	13	M20X1.5	23	8	24
Ø100	35.5	30	13	M20X1.5	23	8	24



Bore	A	B1	C	D	h	KK	MG	MM	WF	
									Except FA	FA type
Ø20	14	13	4	8	5	M8X1.25	9	10	4.5	–
Ø25	17.5	13	4.5	10	5	M8X1.25	9	12	5	–
Ø32	23.5	19	4.5	14	7	M12X1.5	14	16	5	13
Ø40	23.5	19	4.5	14	7	M12X1.5	14	16	5	15
Ø50	28.5	24	4	17	11	M16X1.5	19	20	5	15
Ø63	28.5	24	4	17	11	M16X1.5	19	20	5	15
Ø80	35.5	30	7	22	13	M20X1.5	23	25	8	24
Ø100	35.5	30	7	27	13	M20X1.5	23	30	8	24

# Compact Cylinder / 3 Position Cylinder

# P10S-7Q1 Series (Order Made)

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

## ORDER KEY

<b>P10S - 7</b>	<b>R</b>	<b>Q1</b>	<b>ST</b>	<b>040</b>	<b>N</b>	<b>030</b>	-	<b>050</b>	<b>T</b>
	①	②		③		④		⑤	⑥

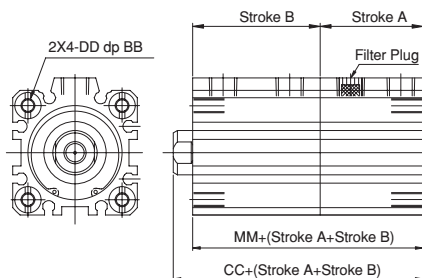
<p><b>1. Magnet</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">Blank</td> <td style="padding: 2px;">None Magnet</td> </tr> <tr> <td style="padding: 2px;">R</td> <td style="padding: 2px;">Built in Magnet</td> </tr> </table> <p><b>2. Acting</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">Q1</td> <td style="padding: 2px;">3 Position cylinder</td> </tr> </table>	Blank	None Magnet	R	Built in Magnet	Q1	3 Position cylinder	<p><b>3. Bore(mm)</b></p> <p><b>4. Stroke A(mm)</b></p> <p><b>5. Stroke B(mm)</b></p> <p><b>6. Rod Thread</b></p>
Blank	None Magnet						
R	Built in Magnet						
Q1	3 Position cylinder						

## Specifications

Acting	Unit	Double Acting
Fluid		Air
Operating Pressure Range	Mpa	Ø12 ~ Ø32 : 0.1 ~ 1 Ø40 ~ Ø100 : 0.05 ~ 1
Proof Pressure	Mpa	1.5
Operating Temperature	℃	-10 ~ 70
Piston Speed	mm/s	Ø12~Ø40 : 30 ~ 500 Ø50 ~ Ø100 : 30 ~ 300
Cushion		Ø12, Ø16 : None Cushion Ø20 ~ Ø100 : Bumper Cushion

## Dimensions

(Unit : mm)



Bore	BB	DD	None Magnet		Built in Magnet	
			CC	MM	CC	MM
Ø12	7	M3X0.5	43.5	40	53.5	50
Ø16	7	M3X0.5	43.5	40	53.5	50
Ø20	10	M5X0.8	57.5	53	77.5	73
Ø25	10	M5X0.8	60	55	80	75
Ø32	10	M5X0.8	63	56	83	76
Ø40	10	M5X0.8	76	69	96	89
Ø50	14	M6X1	79	71	99	91
Ø63	14	M8X1.25	90	82	110	102
Ø80	15	M10X1.5	107	97	127	117
Ø100	15	M10X1.5	128	116	148	136

# Compact Cylinder / 4 Position Cylinder

# P10S-7Q2 Series (Order Made)

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

## ORDER KEY

<b>P10S - 7</b>	<b>R</b>	<b>Q2</b>	<b>ST</b>	<b>040</b>	<b>N</b>	<b>030</b>	<b>-</b>	<b>050</b>	<b>T</b>
	①	②		③		④		⑤	⑥

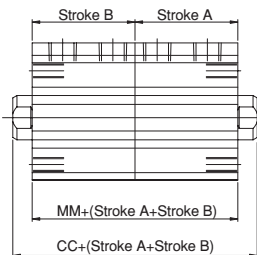
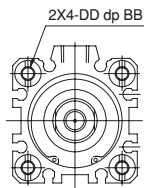
<p><b>1. Magnet</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">Blank</td> <td style="padding: 2px;">None Magnet</td> </tr> <tr> <td style="padding: 2px;">R</td> <td style="padding: 2px;">Built in Magnet</td> </tr> </table> <p><b>2. Acting</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">Q2</td> <td style="padding: 2px;">4 Position cylinder</td> </tr> </table>	Blank	None Magnet	R	Built in Magnet	Q2	4 Position cylinder	<p><b>3. Bore(mm)</b></p> <p><b>4. Stroke A(mm)</b></p> <p><b>5. Stroke B(mm)</b></p> <p><b>6. Rod Thread</b></p>
Blank	None Magnet						
R	Built in Magnet						
Q2	4 Position cylinder						

## Specifications

Item	Unit	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
Acting		Double Acting									
Fluid		Air									
Operating Pressure Range	Mpa	0.1 ~ 1					0.05 ~ 1				
Proof Pressure	Mpa	1.5									
Operating Temperature	℃	-10 ~ 70									
Piston Speed	mm/s	30 ~ 500					30 ~ 300				
Cushion		None Cushion				Bumper Cushion					

## Dimensions

(Unit : mm)



Bore	BB	DD	None Magnet		Built in Magnet	
			CC	MM	CC	MM
Ø12	7	M3X0.5	41	34	51	44
Ø16	7	M3X0.5	41	34	51	55
Ø20	10	M5X0.8	52	43	72	63
Ø25	10	M5X0.8	55	45	75	65
Ø32	10	M5X0.8	60	46	80	66
Ø40	10	M5X0.8	73	59	93	79
Ø50	14	M6X1	77	61	97	81
Ø63	14	M8X1.25	88	72	108	92
Ø80	15	M10X1.5	107	87	127	107
Ø100	15	M10X1.5	130	106	150	126

# Compact Cylinder / Adjustable Extend Stroke Cylinder P10S-7A1 Series (Order Made)

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

## ORDER KEY

**P10S - 7** R A1 **ST** 040 N 030 T

①    ②
③
④    ⑤

**1. Magnet**

Blank	None Magnet
R	Built in Magnet

**2. Acting**

A1	Adjustable Stroke Cylinder
----	----------------------------

**3. Bore(mm)**

**4. Stroke (mm)**

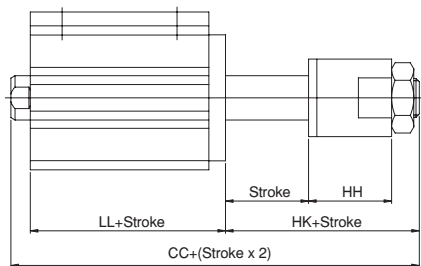
**5. Rod Thread**

## Specifications

Item	Unit	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100	
Acting		Double Acting										
Fluid		Air										
Operating Pressure Range	Mpa	0.1 ~ 1					0.05 ~ 1					
Proof Pressure	Mpa	1.5										
Operating Temperature	℃	-10 ~ 70										
Piston Speed	mm/s	30 ~ 500						30 ~ 300				
Cushion		None Cushion			Bumper Cushion							
Stroke Adjustment		by Adjustable Stopper										
Adjustable Stroke Range	mm	0~10										

## Dimensions

(Unit : mm)



Bore	HH	HK	None Magnet		Built in Magnet	
			CC	LL	CC	LL
Ø12	21	26	57.5	28	62.5	33
Ø16	21	26	57.5	28	62.5	33
Ø20	24	31	70	34.5	80	44.5
Ø25	24	32	72.5	35.5	82.5	45.5
Ø32	30	40	88	41	98	51
Ø40	30	40	87.5	40.5	97.5	50.5
Ø50	31	44	93.5	41.5	103.5	51.5
Ø63	31	44	99	47	109	57
Ø80	40	55	128.5	63.5	138.5	73.5
Ø100	40	58	143	73	153	83

# Compact Cylinder / Adjustable Retract Stroke Cylinder

# P10S-7A2 Series (Order Made)

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

## ORDER KEY

**P10S-7** **R** **A2** **ST** **040** **N** **030** **T**

①
②
③
④
⑤

### 1. Magnet

Blank	None Magnet
R	Built in Magnet

### 3. Bore(mm)

### 4. Stroke (mm)

### 2. Acting

A2	Adjustable Retract Stroke Cylinder
----	------------------------------------

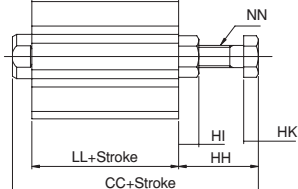
### 5. Rod Thread

## Specifications

Item	Unit	Ø12	Ø16	Ø20	Ø25	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100
Acting		Double Acting									
Fluid		Air									
Operating Pressure Range	Mpa	0.1 ~ 1					0.05 ~ 1				
Proof Pressure	Mpa	1.5									
Operating Temperature	℃	-10 ~ 70									
Piston Speed	mm/s	30 ~ 500					30 ~ 300				
Cushion		without Cushion			Bumper Cushion						
Stroke Adjustment		by Adjustable Stop Bolt									
Adjustable Stroke Range	mm	0~10									

## Dimensions

(Unit : mm)



Bore	HH	HI	HK	NN	None Magnet		Built in Magnet	
					CC	LL	CC	LL
Ø12	20.5	4	3.5	M5X0.8	46	22	51	27
Ø16	20.5	4	3.5	M5X0.8	46	22	51	27
Ø20	31.3	6	5.3	M8X1.25	67.3	31.5	77.3	41.5
Ø25	30.5	6	5.3	M8X1.25	67.8	32.5	77.8	42.5
Ø32	29	6	5.3	M8X1.25	69	33	79	43
Ø40	38	10	7.5	M12X1.5	84.5	39.5	94.5	49.5
Ø50	38	10	7.5	M12X1.5	86.5	40.5	96.5	50.5
Ø63	43.5	11.5	10	M16X1.5	97.5	46	107.5	56
Ø80	51	16	12.5	M20X1.5	114.5	53.5	124.5	63.5
Ø100	59	19	15	M24X2	134	63	144	73