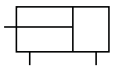
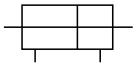
KP125/160A series

KP125A SD63-S20

Features

- Compact hydraulic cylinder with Aluminium tube.
- Double acting hydraulic cylinder for 125/160kgf/cm² with a bore from Ø20 to Ø80.
- Easy to equip with auto switch.
- Excellent appearance and identical dimensions as KP140HS.

Symbol
 Double Acting / Single Rod
 Double Acting / Double Rod

How to Order

KP125A	-	①	H ②	50 ③	-	S ④	40 ⑤	N ⑥	⑦	S ⑧

① Series

KP125A	Single rod	125kgf/cm²
KP125A W	Double rod	125kgf/cm²
KP160A	Single rod (High pressure)	160kgf/cm²

※ Double rod type is not available for KP160A series.

② Seal material

Nil	Nitrile Urethane (Standard)
2	Urethane rubber

③ Magnet

Nil	Without magnet
H	With built-in magnet

※ Cylinder with built-in magnet and without built-in magnet have the same dimensions.

④ Bore size

20	Ø20
25	Ø25
32	Ø32
40	Ø40
50	Ø50
63	Ø63
80	Ø80

⑤ Cylinder stroke

Bore size	Standard stroke	Max. stroke
Ø20	10, 15, 20, 25, 30, 40, 50	50
Ø25		
Ø32		
Ø40		100
Ø50		
Ø63		
Ø80	-	

※ Check buckling, as it varies depending on mounting style.
※ Contact us for longer stroke.
※ We have female thread, standard stroke type in stock.

⑥ Rod end thread

Nil	Female thread (Standard)
N	Male thread

⑦ Auto switch

Contact	Model	No contact	Model
Z72	D-Z72K	Y59A	D-Y59AK
Z73	D-Z73K	Y7PK	D-Y7PK
Z76	D-Z76K	Y59B	D-Y59BK
Z80	D-Z80K		
Z82	D-Z82K		

※ Only for auto switch attached type.
※ For more information, refer to Auto Switch Catalogue.

⑧ Number of auto switches

Nil	2 pcs
S	1 pc
N	N pcs (N:3,4,5...)

※ Only for auto switch attached type.

Specifications

Type	KP125A	KP160A
Bore size	Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80	
Max. Operating pressure	125kgf/cm^2 (12.5MPa)	160kgf/cm^2 (16.0MPa)
Proof pressure	188kgf/cm^2 (18.8MPa)	240kgf/cm^2 (24.0MPa)
Min. Operating pressure	3kgf/cm^2 (0.3MPa)	
Operating piston speed	8~10mm/s	
Ambient & fluid temperature	-10 ~ 70℃	
Working oil	Petroleum-based fluid	
Tolerance of thread	KS class 2	
Tolerance of stroke	0~+0.8mm	

Mass

Double Acting Single Rod Type

Unit : kg

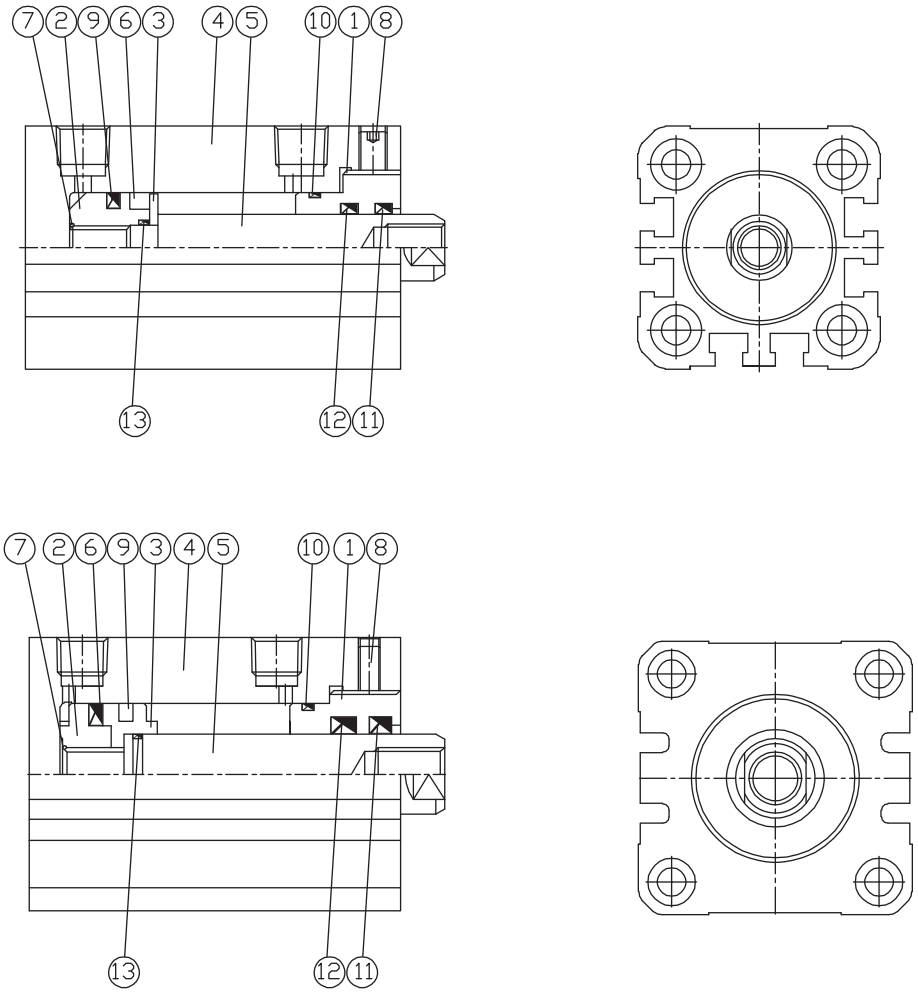
Type	Bore size	Stroke(mm)										Additional mass of male thread
		5	10	15	20	25	30	35	40	45	50	
Standard type	Ø20	0.29	0.28	0.30	0.32	0.35	0.37	0.39	0.41	0.43	0.45	0.02
	Ø25	0.41	0.40	0.43	0.45	0.48	0.51	0.54	0.56	0.59	0.62	0.03
	Ø32	0.68	0.72	0.77	0.81	0.86	0.90	0.94	0.99	1.03	1.08	0.05
	Ø40	0.90	0.95	1.01	1.07	1.12	1.18	1.24	1.29	1.35	1.41	0.10
	Ø50	1.35	1.43	1.50	1.58	1.65	1.73	1.81	1.88	1.96	2.03	0.18
	Ø63	2.10	2.21	2.31	2.42	2.52	2.63	2.74	2.84	2.95	3.05	0.40
	Ø80	3.87	4.02	4.18	4.34	4.49	4.65	4.81	4.96	5.12	5.28	0.76
With auto switch	Ø20	0.30	0.29	0.31	0.33	0.36	0.38	0.40	0.42	0.44	0.46	0.02
	Ø25	0.42	0.41	0.44	0.46	0.49	0.52	0.55	0.57	0.60	0.63	0.03
	Ø32	0.70	0.75	0.80	0.84	0.89	0.93	0.98	1.02	1.07	1.11	0.05
	Ø40	0.93	0.99	1.05	1.11	1.16	1.22	1.28	1.33	1.39	1.45	0.10
	Ø50	1.14	1.49	1.57	1.64	1.72	1.79	1.87	1.94	2.02	2.09	0.18
	Ø63	2.20	2.30	2.40	2.51	2.61	2.72	2.82	2.93	3.03	3.14	0.40
	Ø80	3.98	4.13	4.28	4.44	4.60	4.75	4.91	5.07	5.22	5.38	0.76

Double Acting Double Rod Type

Unit : kg

Type	Bore size	Stroke(mm)										Additional mass of male thread
		5	10	15	20	25	30	35	40	45	50	
Standard type	Ø20	0.40	0.40	0.43	0.45	0.48	0.50	0.53	0.55	0.58	0.60	0.04
	Ø25	0.57	0.56	0.59	0.62	0.65	0.70	0.72	0.75	0.78	0.81	0.06
	Ø32	1.06	1.11	1.17	1.22	1.28	1.33	1.39	1.44	1.50	1.55	0.10
	Ø40	1.37	1.44	1.51	1.58	1.65	1.72	1.79	1.86	1.93	2.00	0.20
	Ø50	2.00	2.09	2.19	2.29	2.39	2.49	2.59	2.69	2.79	2.89	0.36
	Ø63	3.03	3.17	3.32	3.46	3.61	3.75	3.90	4.04	4.19	4.33	0.80
	Ø80	5.58	5.79	6.01	6.23	6.44	6.66	6.88	7.09	7.31	7.53	1.52
With auto switch	Ø20	0.40	0.41	0.44	0.46	0.48	0.51	0.53	0.56	0.58	0.61	0.04
	Ø25	0.58	0.56	0.60	0.63	0.66	0.69	0.72	0.76	0.79	0.82	0.06
	Ø32	1.09	1.14	1.19	1.25	1.30	1.36	1.41	1.47	1.52	1.58	0.10
	Ø40	1.39	1.46	1.53	1.60	1.67	1.74	1.81	1.88	1.95	2.02	0.20
	Ø50	2.02	2.12	2.22	2.32	2.42	2.52	2.61	2.71	2.81	2.91	0.36
	Ø63	3.05	3.20	3.34	3.49	3.63	3.78	3.92	4.07	4.21	4.35	0.80
	Ø80	5.60	5.82	6.03	6.25	6.47	6.69	6.90	7.12	7.34	7.55	1.52

Structure



Part List

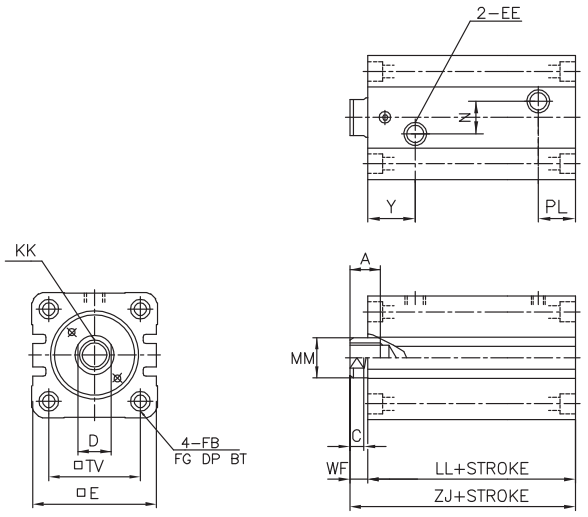
Part no.	Parts	Material	Remark
1	Rod Cover	Special Copper Alloy	-
2	Piston	Special Copper Alloy	-
3	Piston Holder	Stainless Steel,	Ø20~Ø25 Ø32~Ø63
4	Cylinder Tube	Special Copper Alloy	-
5	Piston Rod	Special Aluminium Alloy	-
6	Magnet	Stainless Steel, Carbon Steel	-
7	Steel Ball	-	-
8	Set Bolt	Stainless Steel	-
		-	

Packing List

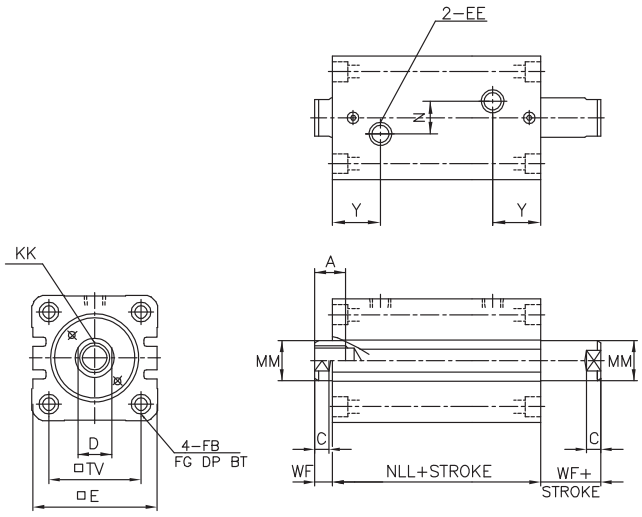
Part no.	9	10	11	12	13
Parts	Piston Packing	Tube O-Ring	Dust Seal	Rod Packing	Rod O-Ring
Material	NBR	NBR	NBR	NBR	NBR
Bore size	Type	Type	Type	Type	Type
Ø20	P16	S18	SER12	NMY12	P8
Ø25	P21	S22	SER14	NMY14	P10
Ø32	P26	S29	SDR18	SKY18	S16
Ø40	P34	G35	SDR22	SKY22	S20
Ø50	P44	G45	SDR28	SKY28	S25
Ø63	P53	G58	SDR35	SKY35	S32
Ø80	P70	G75	SDR45	SKY45	S36

Dimensions-KP125A (SD, W)

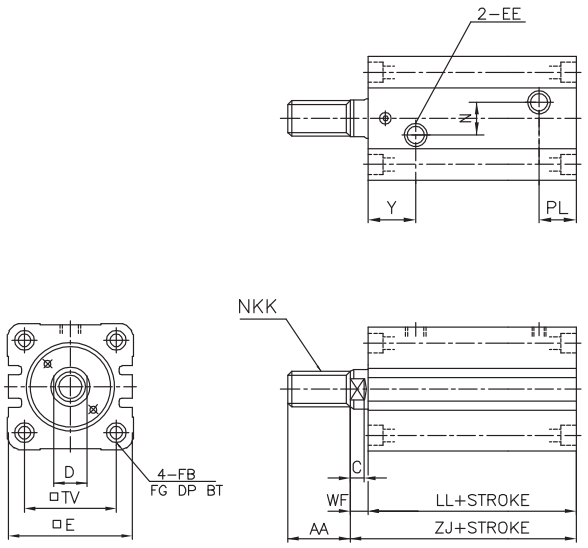
Single Rod (Female thread)
Bore size Ø20 ~Ø80



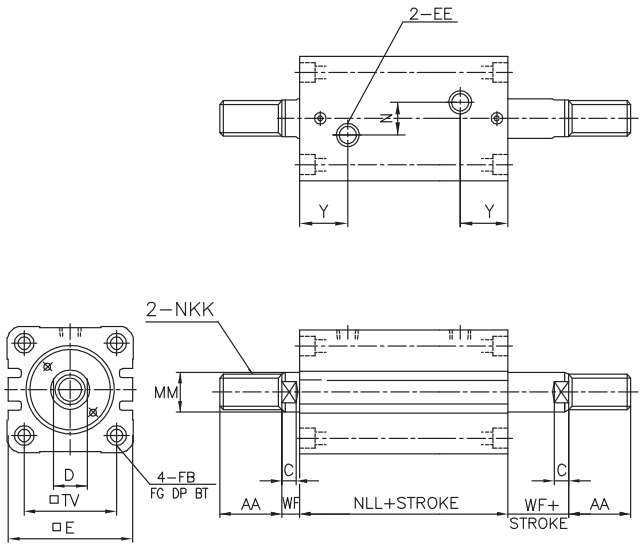
Double Rod (Female thread)
Bore size Ø20 ~ Ø80



Single Rod (Male thread)
Bore size Ø20 ~ Ø80



Double Rod (Male thread)
Bore size Ø20 ~ Ø80

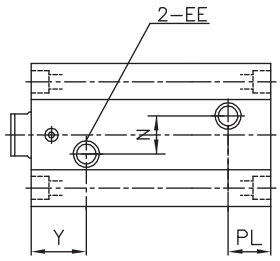


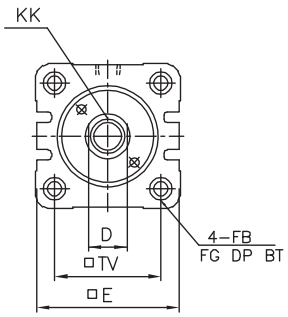
Unit : mm

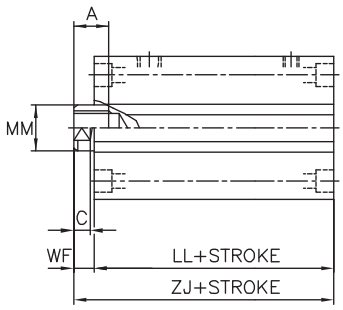
Bore size	A	AA	BT	C	D	□E	EE	FB	FG	KK	LL	N	PL	NLL	MM	NKK	□TV	WF	Y	ZJ
Ø20	10	15	5.4	6	10	□44	Rc(PT)1/8	Ø5.5	Ø9.5	M8×1.25	43	6	10.5	54	Ø12	M10×1.25	□30	8	18	51
Ø25	12	18	5.4	6	12	□50	Rc(PT)1/8	Ø5.5	Ø9.5	M10×1.5	45	12	12	56	Ø14	M12×1.25	□36	8	20.5	53
Ø32	15	20	6.5	7	14	□62	Rc(PT)1/4	Ø6.6	Ø11	M12×1.75	54	20	12	72	Ø18	M16×1.5	□47	10	28	64
Ø40	20	20	8.6	7	19	□70	Rc(PT)1/4	Ø9	Ø14	M16×2	55	20	12	72	Ø22	M20×1.5	□52	10	27	65
Ø50	24	35	10.8	8	24	□80	Rc(PT)1/4	Ø11	Ø17.5	M20×2.5	60	20	13	75	Ø28	M24×1.5	□58	11	28	71
Ø63	33	45	13	9	30	□94	Rc(PT)1/4	Ø14	Ø20	M27×3	67	20	13	82	Ø35	M30×1.5	□69	13	30	80
Ø80	36	60	15.2	14	40	□114	Rc(PT)3/8	Ø16	Ø23	M30×3.5	78	30	18	95	Ø45	M39×1.5	□86	17	35	95

Dimensions-KP160A (SD)

Single Rod (Female thread)
Bore size Ø20 ~Ø80

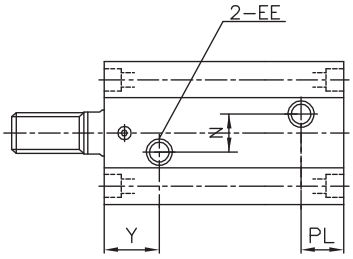


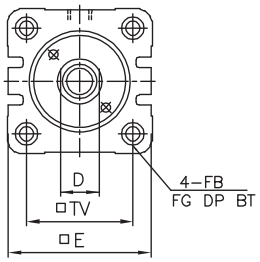


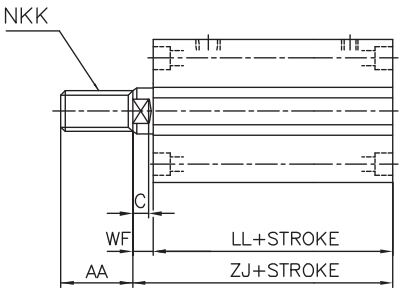


Operating Pressure: 160kgf/cm²

Single Rod (Male thread)
Bore size Ø20 ~ Ø80







Operating Pressure: 160kgf/cm²

Unit : mm

Bore size	A	AA	BT	C	D	□E	EE	FB	FG	KK	LL	N	PL	MM	NKK	□TV	WF	Y	ZJ
Ø20	10	15	5.4	6	10	□44	Rc(PT)1/8	Ø5.5	Ø9.5	M8×1.25	43	12	10.5	Ø12	M10×1.25	□30	8	18	51
Ø25	12	18	5.4	6	12	□50	Rc(PT)1/8	Ø5.5	Ø9.5	M10×1.5	45	16	12	Ø14	M12×1.25	□36	8	20.5	53
Ø32	15	20	6.5	7	14	□62	Rc(PT)1/4	Ø6.6	Ø11	M12×1.75	58	20	12	Ø18	M16×1.5	□47	10	28	66
Ø40	20	20	8.6	7	19	□70	Rc(PT)1/4	Ø9	Ø14	M16×2	65	20	21.5	Ø22	M20×1.5	□52	10	30	75
Ø50	24	35	10.8	8	24	□80	Rc(PT)1/4	Ø11	Ø17.5	M20×2.5	70	20	16.5	Ø28	M24×1.5	□58	11	34	81
Ø63	33	45	13	9	30	□94	Rc(PT)1/4	Ø14	Ø20	M27×3	77	20	18	Ø35	M30×1.5	□69	13	35	90
Ø80	36	60	15.2	14	40	□114	Rc(PT)3/8	Ø16	Ø23	M30×3.5	88	30	25.5	Ø45	M39×1.5	□86	17	35	105