

KP125/160A series

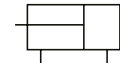


KP125A-H SD63-S20

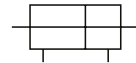
Features

- Compact hydraulic cylinder with Aluminium tube.
- Double acting hydraulic cylinder for 125kgf/cm² or 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 - H SD 63 - S 20

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

KP125A	Single rod	125kgf/cm ²
KP125A W	Double rod	125kgf/cm ²
KP160A	Single rod (High pressure)	160kgf/cm ²

※ Double rod type is not available for KP160A series.

② Seal material

Nil	Nitrile rubber (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		
Ø50	-	100
Ø63		
Ø80		

※ Check buckling, as it varies depending on mounting style.

※ Contact us for longer stroke.

⑥ Rod end thread

Nil	Female thread (Standard)
N	Male thread

⑦ Auto switch

Reed A/S	Model	Solid state A/S	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
1	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 (12.8MPa)	160kgf/cm ² (16.3MPa)
Proof pressure	188kgf/cm ² (19.2MPa)	240kgf/cm ² (24.5MPa)
Min. operating pressure	3kgf/cm ² (0.3MPa)	
Operating piston speed	8~100mm/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

Hydraulic Cylinder

Reference Data

KP140H

KP210H

KPC70/140H

KPC210H

KTC70HP

KP140HS

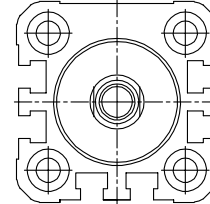
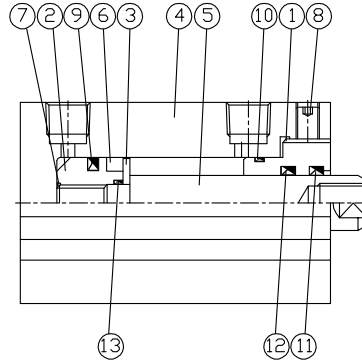
KP125/160A

KP35R

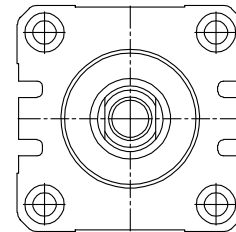
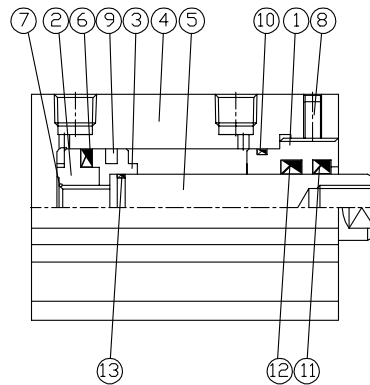
KH

Structure

ø20, ø25



ø32, ø40, ø50, ø63, ø80



Part List

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

Packing List

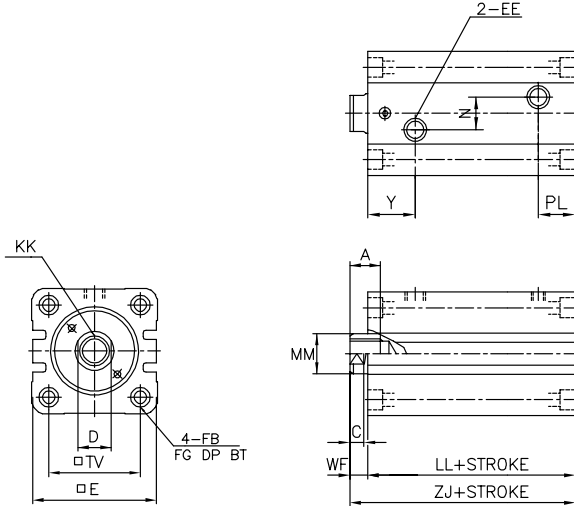
Part no.	Parts	Material	ø20	ø25	ø32	ø40	ø50	ø63	ø80
9	PISTON PACKING + BACK UP RING	NBR + POLY NYLON	HSD 20x14x1.9 + PWK20	HSD 25x17x2.6 + PWK25	HSD 32x24x2.6 + PWK32	HSD 40x32x2.6 + PWK40	HSD 50x40x3.4 + PWK50	HSD 63x53x3.4 + PWK63	HSD 80x65x5.2 + PWK80
10	TUBE O-RING	NBR	BS18	BS22.4	BS29	BG35	BG45	BG58	BG75
11	DUST SEAL	ø20~ø25 NBR ø32~ø80 URETHANE	SER 12x16x3.9	SER 14x18x3.9	LBI 18x26x4.5	LBI 22x30x4.5	LBI 28x36x4.5	LBI 35x43x5	LBI 45x53x5
12	ROD PACKING	ø20~ø25 NBR ø32~ø80 URETHANE	NMY 12x16x2.8	NMY 14x18x2.8	UHR 18x26x5.2	USI 22x30x5	UHR 28.35.5x5.2	ISI 35x45x6	UHR 45x55x6.5
13	ROD O-RING	NBR	BSB	BS10	BS12.5	BS18	BS24	BS28	BS36

※ KP160A series has a same packing set as KP125A series, only additional backup ring is included for part no. 10 & 12.

Dimensions-KP125A (SD, W)

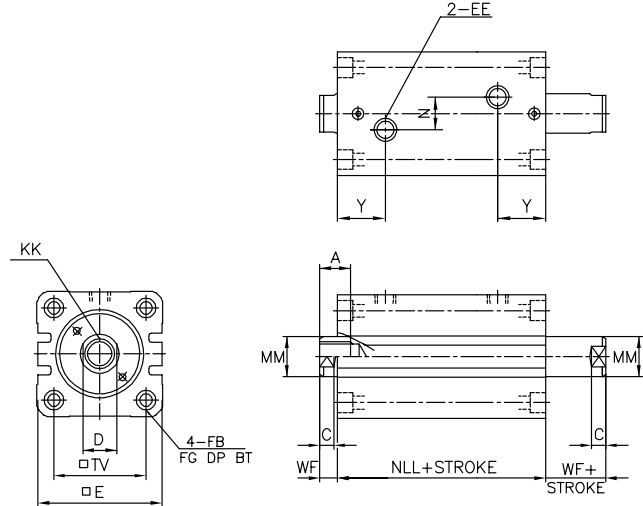
Single Rod (Female thread)
Bore size Ø20 ~ Ø80

Operating Pressure: 125kgf/cm²



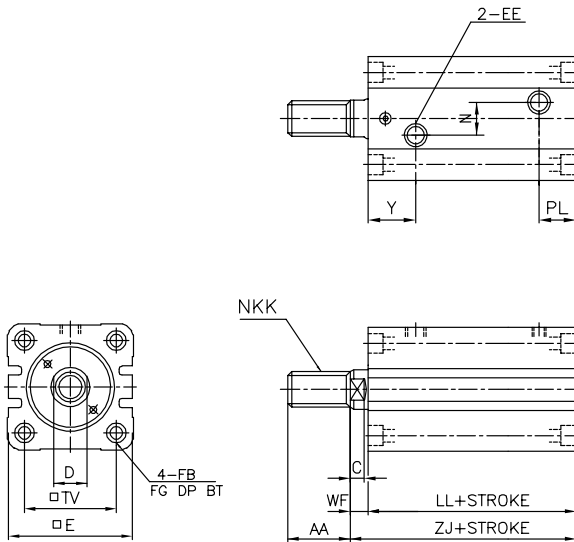
Double Rod (Female thread)
Bore size Ø20 ~ Ø80

Operating Pressure: 125kgf/cm²



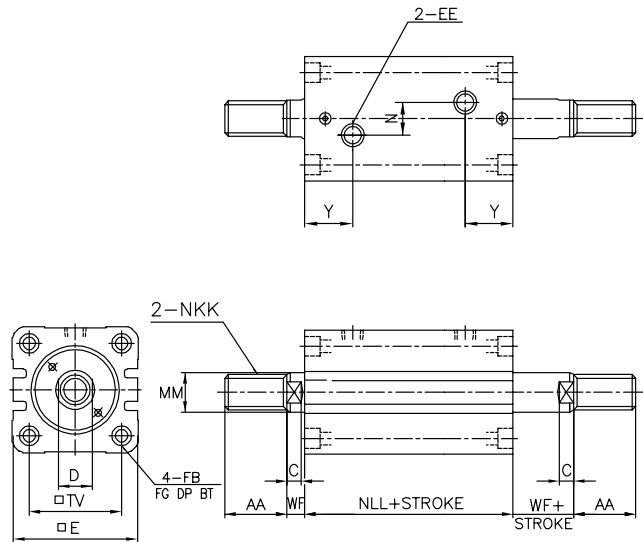
Single Rod (Male thread)
Bore size Ø20 ~ Ø80

Operating Pressure: 125kgf/cm²



Double Rod (Male thread)
Bore size Ø20 ~ Ø80

Operating Pressure: 125kgf/cm²



Hydraulic
Cylinder

Reference
Data

KP140H

KP210H

KPC70/140H

KPC210H

KTC70HP

KP140HS

KP125/160A

KP35R

KH

Unit : mm

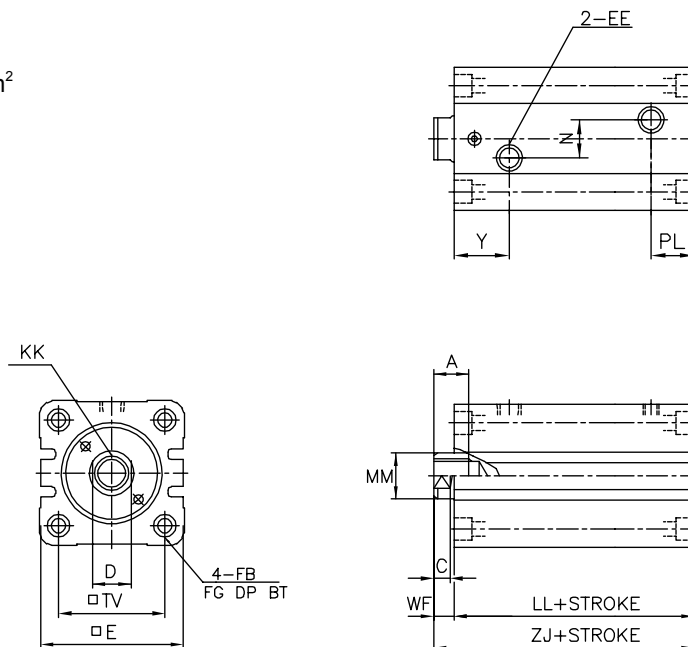
Bore size	A	AA	BT	C	D	□E	EE	FB	FG	KK	LL	N	PL	NLL	MM	NKK	□TV	WF	Y	ZJ
Ø20	10	15	5.4	6	10	□44	Rc(PT)1/8	Ø5.5	Ø9.5	M8×1.25	43	6	10.5	54	Ø12	M10×1.25	□30	8	18	51
Ø25	12	18	5.4	6	12	□50	Rc(PT)1/8	Ø5.5	Ø9.5	M10×1.5	45	12	12	56	Ø14	M12×1.25	□36	8	20.5	53
Ø32	15	20	6.5	7	14	□62	Rc(PT)1/4	Ø6.6	Ø11	M12×1.75	54	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

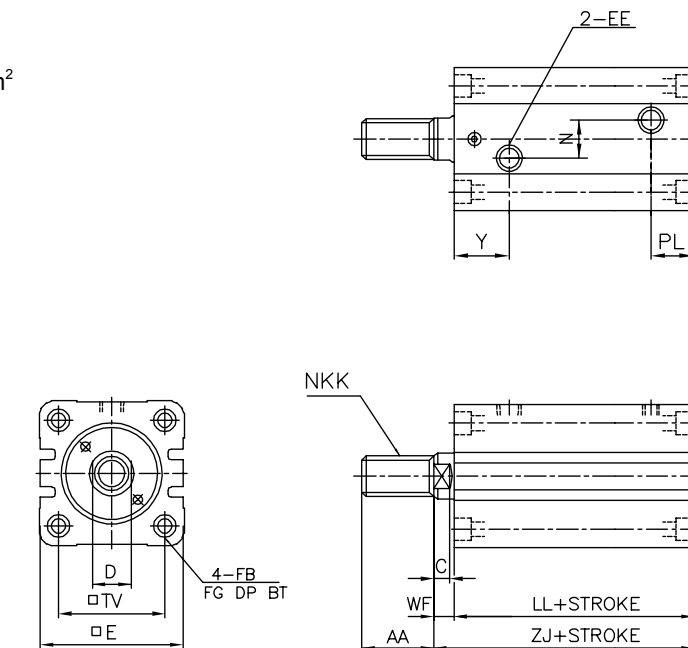
Operating Pressure: 160kgf/cm²



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	56	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