NEW PRODUCTS 2020

PK SERIES

ONE BRAND, COMPLETE SOLUTIONS
IN PNEUMATIC AUTOMATION

Pemaks®
Pneumatics
pemaks.com.tr

MAGNETIC SENSOR

RUNNING OIL FREE

303
AISI 303 PISTON ROD

ELOXAL PLATED COVER

ELOXAL PLATED TUBE

PK SERIES

ISO 21287 // ⌀12 - ⌀25

DOUBLE ACTING, COMPACT and MAGNETIC CYLINDER

PK
DOUBLE ACTING and COMPACT CYLINDER

PK-A
DOUBLE ACTING,COMPACT and MAGNETIC CYLINDER

- COMPACT BODY STRUCTURE PROVIDES EASE OF USE IN NARROW WORK SPACES
- CORROSION AND OXIDATION RESISTANT BODY ELEMENTS ARE TOUGH OFFERS LONG LIFE IN ENVIRONMENTAL CONDITIONS
- MULTIPLE SENSOR CONNECTION POINT MAKES CYLINDER CONTROL EASIER
- GENERALLY, TEXTILE PRINTING MACHINES, THERMOFORMING and PLASTIC INJECTION USED IN MACHINES

FORCE

Cylinder ⌀ mm	Rod ⌀ mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
12	6	68	51
16	8	121	90
20	10	188	141
25	10	295	247

WORK CONDITIONS

Working Fluid:
Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:
Polyurethane (PU) : (-20 C) - (+80°C)
Viton (FKM) : (-30 C) - (+150°C)

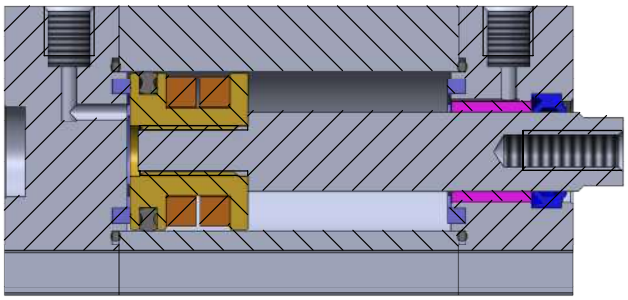
Max. Work Pressure:
10 Bar

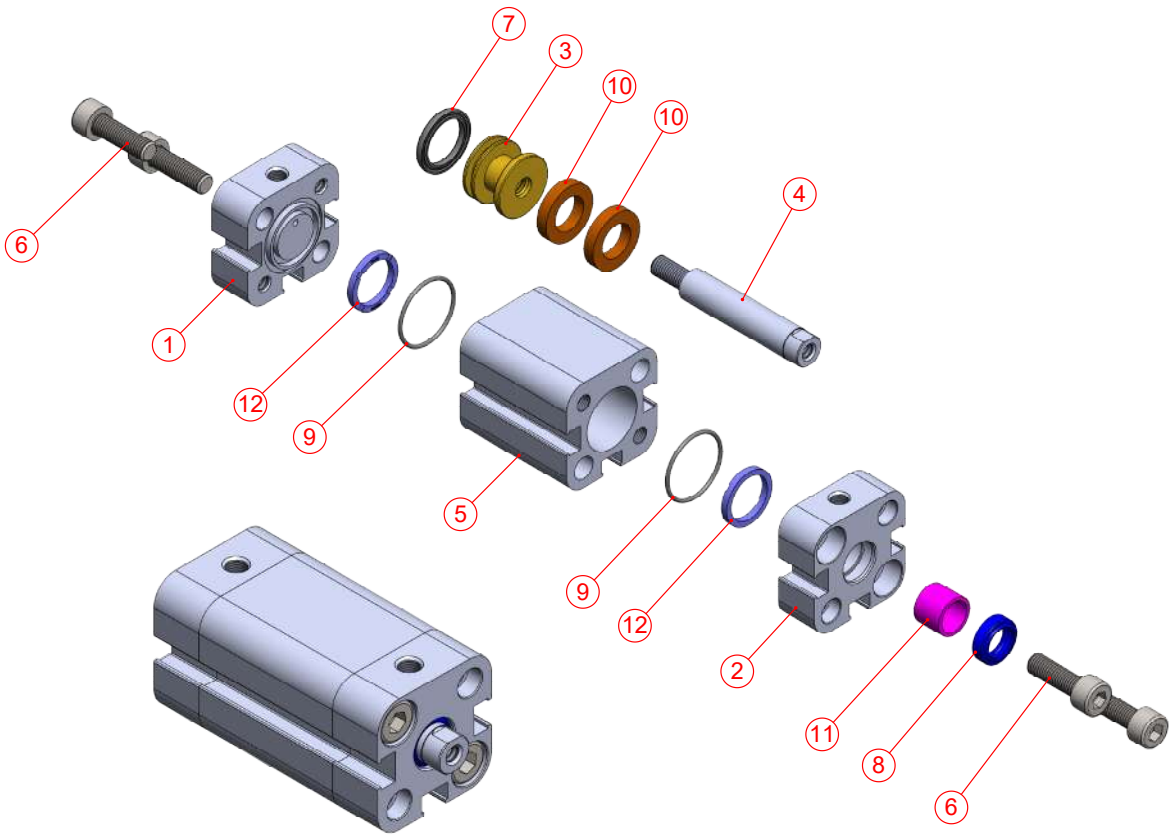
VARIANTS FROM STANDARD SYSTEM

R4: Stainless Steel Nut for Piston Rod (AISI 304)
M1: Extended Male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150°C (Viton)
K4: Piston Rod Seal Viton

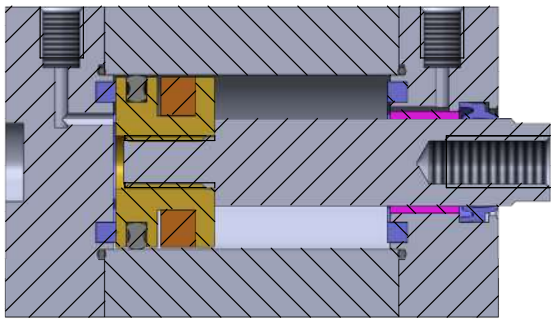
EXAMPLE OF ORDER

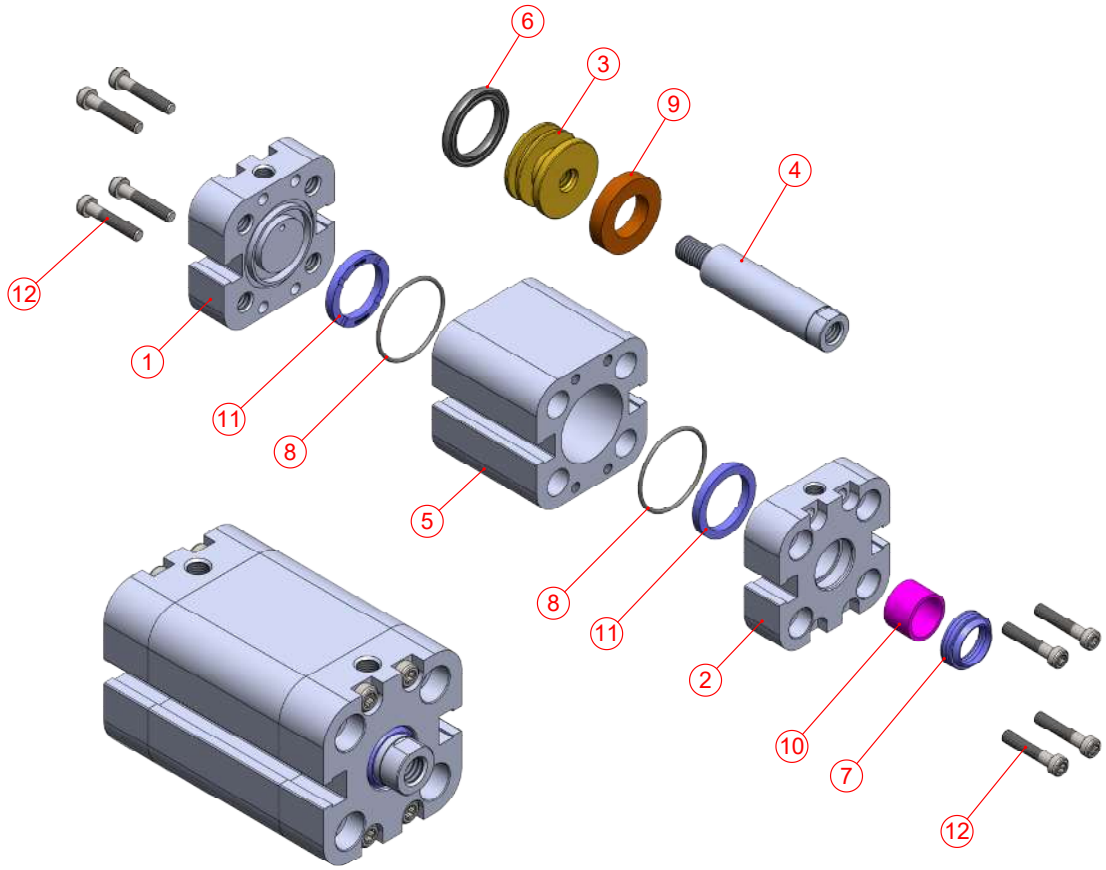
PK-A	020 - 025	M1-K4
Product Code	Cylinder ⌀ Stroke	Variants From Standard System





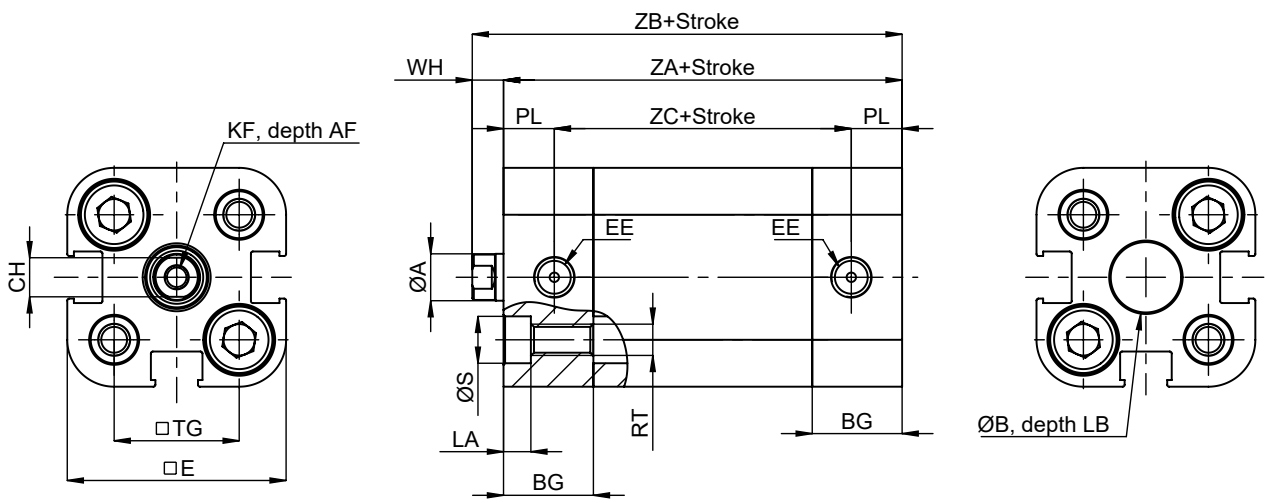
No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Bolt	Galvanized Steel	4
7	Piston Seal	NBR	1
8	Rod Seal	PU	1
9	Head O-Ring	NBR	2
10	Magnet		2
11	Guide Bush	CSB-40	1
12	Bumper	PU85	2



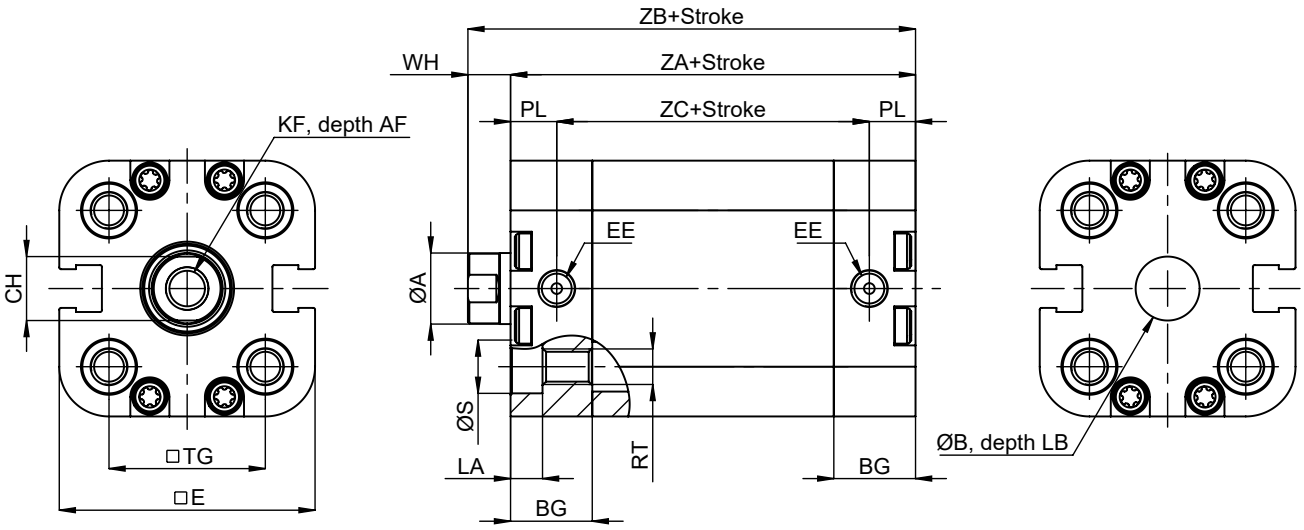


No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Piston Seal	NBR	1
7	Rod Seal	PU	1
8	Head O-Ring	NBR	2
9	Magnet		1
10	Guide Bush	CSB-40	1
11	Bumper	PU85	2
12	Bolt	Galvanized Steel	8

Ø12 - Ø16



Ø20 - Ø25



Cylinder Ø mm	A	CH	WH	ZA	ZB	ZC	KF	AF	TG	E	PL	B	LB	LA	BG	S	RT	EE
12	6	5	4	36	40	23	M3	8	16	28	6.5	9	2.1	3.5	11.5	6	M4	M5
16	8	7	5	37	42	24	M4	10	18	29	6.5	9	2.1	3.5	11.5	6	M4	M5
20	10	9	6	37	43	24	M6	12	22	36	6.5	9	2.1	4.5	11.5	7.5	M5	M5
25	10	9	6	39	45	26	M6	12	26	38	6.5	9	2.1	4.5	11.5	7.5	M5	M5

MAGNETIC SENSOR

RUNNING OIL FREE

303
AISI 303 PISTON ROD

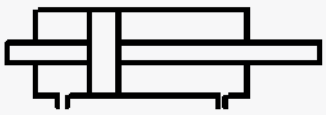
ELOXAL PLATED COVER

ELOXAL PLATED TUBE

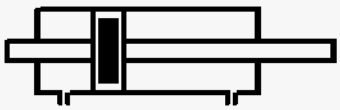
PKD SERIES

ISO 21287 // ⌀12 - ⌀25

DOUBLE ACTING, MAGNETIC and DOUBLE ROD COMPACT CYLINDER



PKD
DOUBLE ACTING and DOUBLE ROD COMPACT CYLINDER



PKD-A
DOUBLE ACTING, MAGNETIC and DOUBLE ROD COMPACT CYLINDER

- PROVIDES THE OPPORTUNITY TO WORK WITH THE SAME STROKE IN THE BOTH DIRECTIONS
- COMPACT BODY STRUCTURE PROVIDES EASE OF USE IN NARROW WORK SPACES
- CORROSION AND OXIDATION RESISTANT BODY ELEMENTS ARE TOUGH OFFERS LONG LIFE IN ENVIRONMENTAL CONDITIONS
- MULTIPLE SENSOR CONNECTION POINT MAKES CYLINDER CONTROL EASIER
- GENERALLY, TEXTILE PRINTING MACHINES, THERMOFORMING and PLASTIC INJECTION USED IN MACHINES

FORCE

Cylinder ⌀ mm	Rod ⌀ mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
12	6	51	51
16	8	90	90
20	10	141	141
25	10	247	247

WORK CONDITIONS

Working Fluid:
Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:
Polyurethane (PU) : (-20 C) - (+80°C)
Viton (FKM) : (-30 C) - (+150°C)

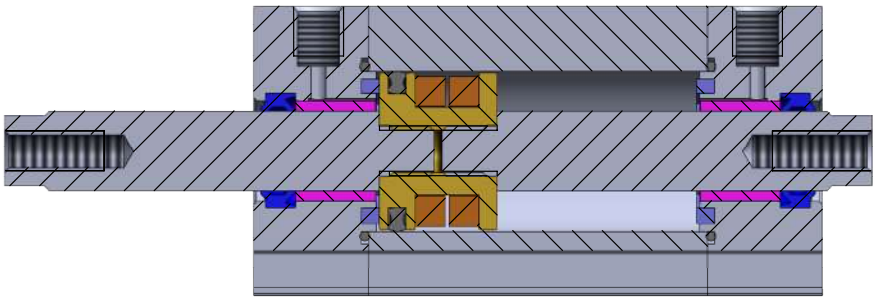
Max. Work Pressure:
10 Bar

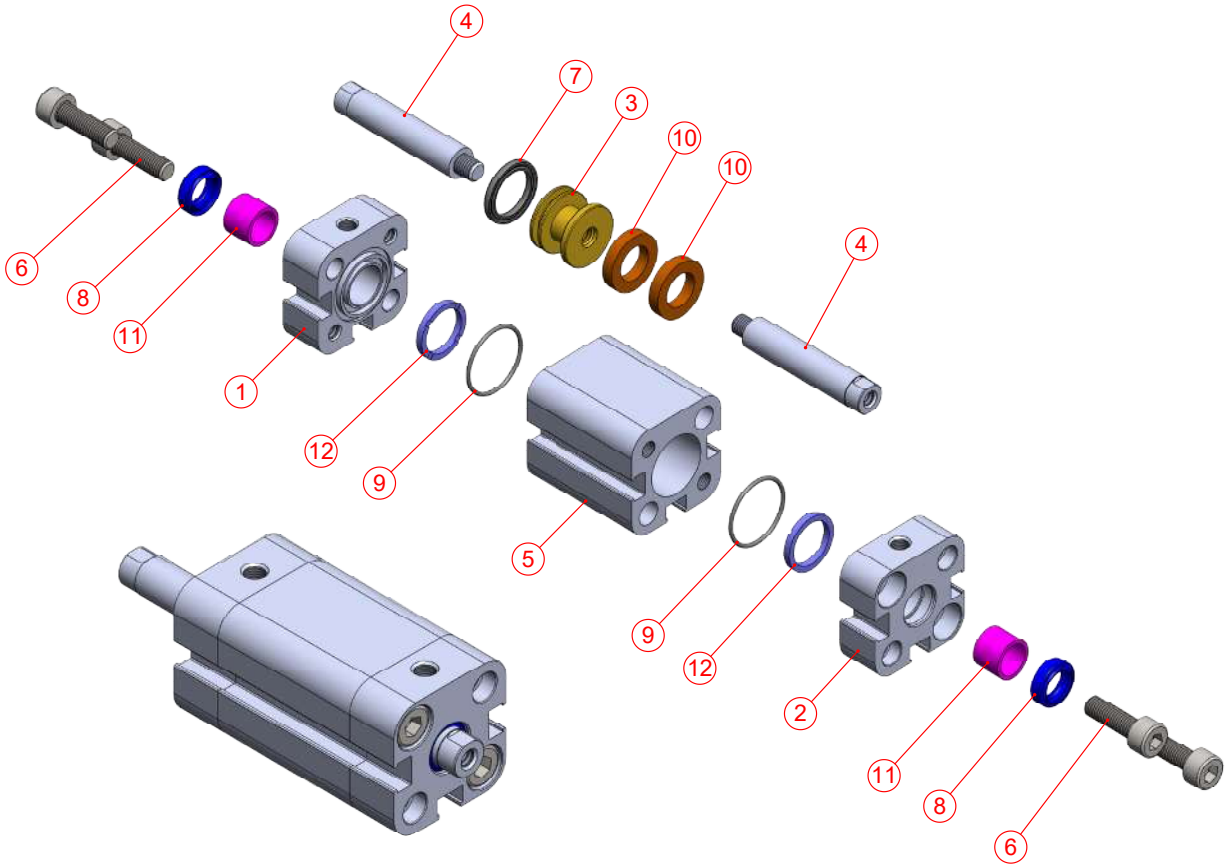
VARIANTS FROM STANDARD SYSTEM

R4 : Stainless Steel Nut for Piston Rod (AISI 304)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1 : Seals for Max. 150°C (Viton)
K4 : Piston Rod Seal Viton

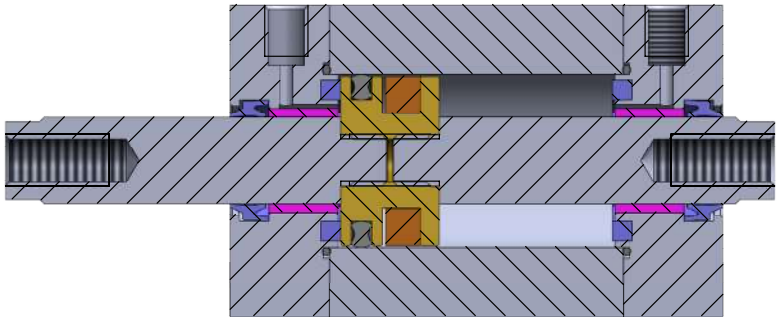
EXAMPLE OF ORDER

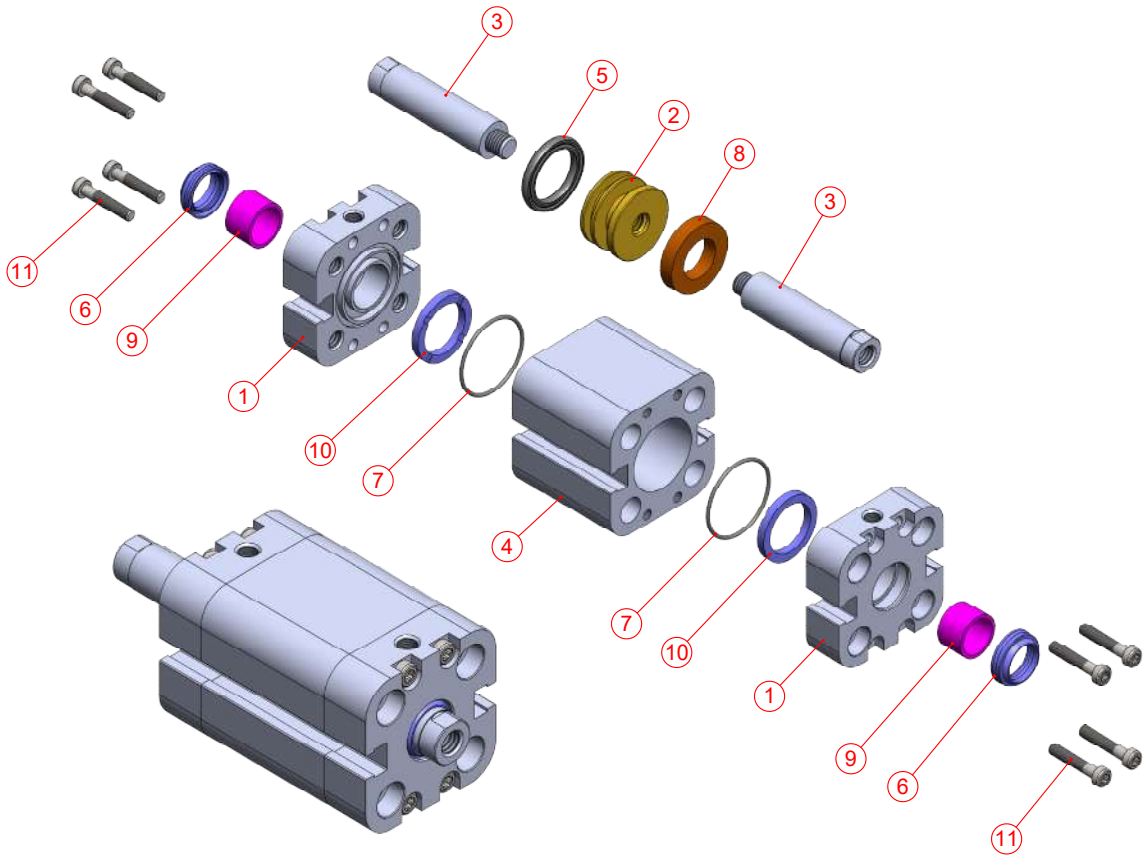
PKD-A	020 - 025	M1-K4
Product Code	Cylinder ⌀ Stroke	Variants From Standard System





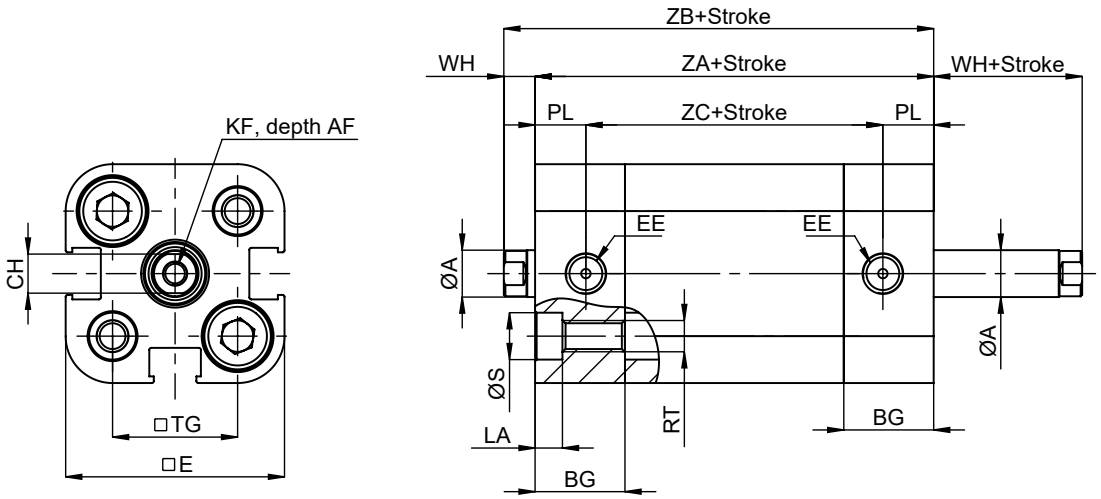
No	Material name	Characteristic	Pc.
1	Front Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	2
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Bolt	Galvanized Steel	4
7	Piston Seal	NBR	1
8	Rod Seal	PU	2
9	Head O-Ring	NBR	2
10	Magnet		2
11	Guide Bush	CSB-40	2
12	Bumper	PU85	2



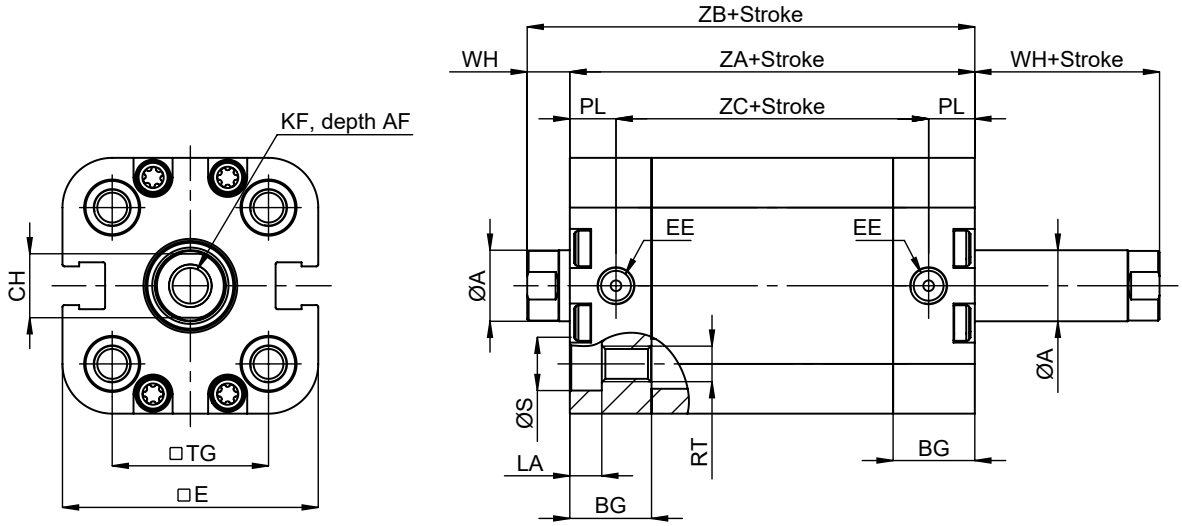


No	Material name	Characteristic	Pc.
1	Front Head	Aluminium+Eloxal Plated	2
2	Middle Piston	Brass	1
3	Piston Rod	AISI 303	2
4	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
5	Piston Seal	NBR	1
6	Rod Seal	PU	2
7	Head O-Ring	NBR	2
8	Magnet		1
9	Guide Bush	CSB-40	2
10	Bumper	PU85	2
11	Bolt	Galvanized Steel	8

Ø12 - Ø16



Ø20 - Ø25



Cylinder Ø mm	A	CH	WH	ZA	ZB	ZC	KF	AF	TG	E	PL	LA	BG	S	RT	EE
12	6	5	4	36	40	23	M3	8	16	28	6.5	3.5	11.5	6	M4	M5
16	8	7	5	37	42	24	M4	10	18	29	6.5	3.5	11.5	6	M4	M5
20	10	9	6	37	43	24	M6	12	22	36	6.5	4.5	11.5	7.5	M5	M5
25	10	9	6	39	45	26	M6	12	26	38	6.5	4.5	11.5	7.5	M5	M5

MAGNETIC SENSOR

RUNNING OIL FREE

303
AISI 303 PISTON ROD

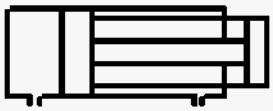
ELOXAL PLATED COVER

ELOXAL PLATED TUBE

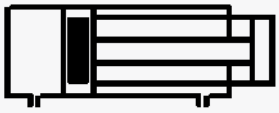
PKY SERIES

ISO 21287 // ⌀12 - ⌀25

DOUBLE ACTING, COMPACT, NON-ROTATING ROD and MAGNETIC CYLINDER



PKY
DOUBLE ACTING, COMPACT and NON-ROTATING ROD CYLINDER



PKY-A
DOUBLE ACTING, COMPACT NON-ROTATING ROD and MAGNETIC CYLINDER

- CONVENIENT DESIGN FOR TRANSPORT AND POSITIONING
- COMPACT BODY STRUCTURE PROVIDES EASE OF USE IN NARROWWORK SPACES
- CORROSION AND OXIDATION RESISTANT BODY ELEMENTS TOUGH ENVIRONMENT IT OFFERS LONG LIFE UNDER CONDITIONS
- MULTIPLE SENSOR CONNECTION POINT MAKES CYLINDER CONTROL EASIER
- GENERALLY, FOOD & PACKAGING MACHINES, PLASTICS and EXTRUDERS USED IN MACHINES

FORCE

Cylinder ⌀ mm	Rod ⌀ mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
12	6	68	51
16	8	121	90
20	10	188	141
25	10	295	247

WORK CONDITIONS

Working Fluid:
Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:
Polyurethane (PU) : (-20 C) - (+80°C)
Viton (FKM) : (-30 C) - (+150°C)

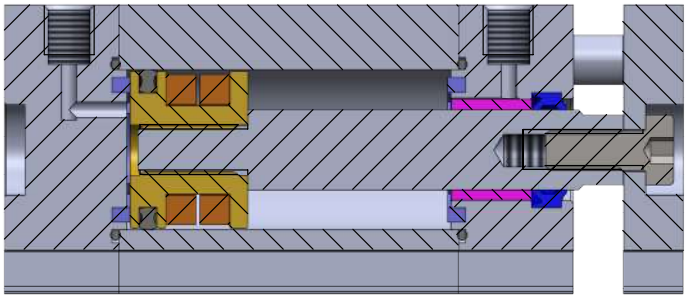
Max. Work Pressure:
10 Bar

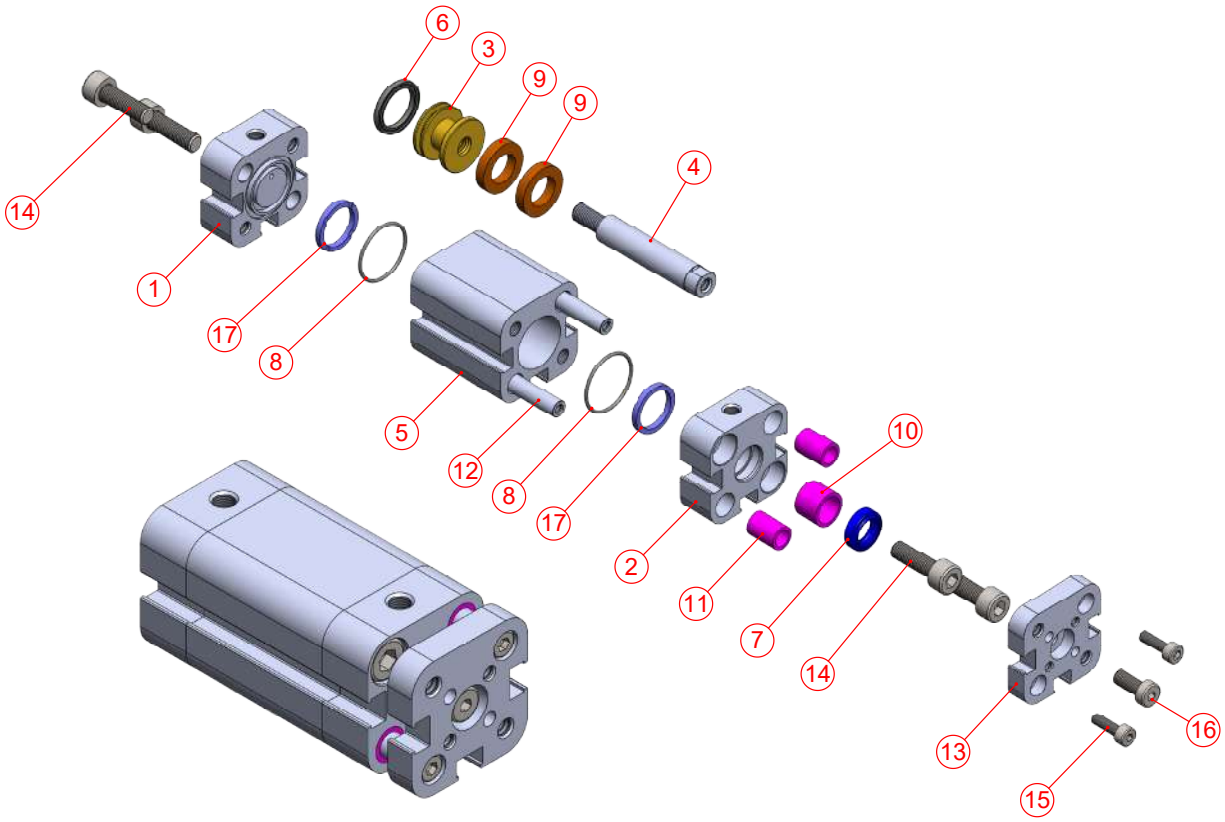
VARIANTS FROM STANDARD SYSTEM

M4: Extended Piston Rod
K1: Seals for Max. 150°C (Viton)
K4: Piston Rod Seal Viton

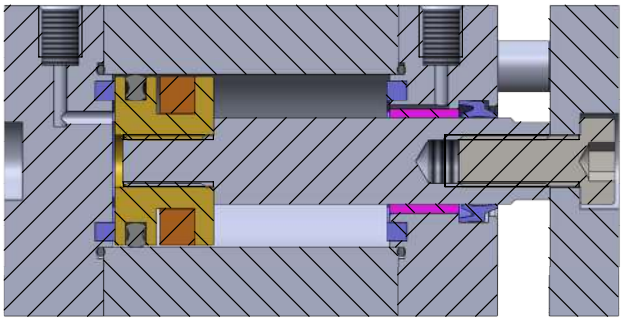
EXAMPLE OF ORDER

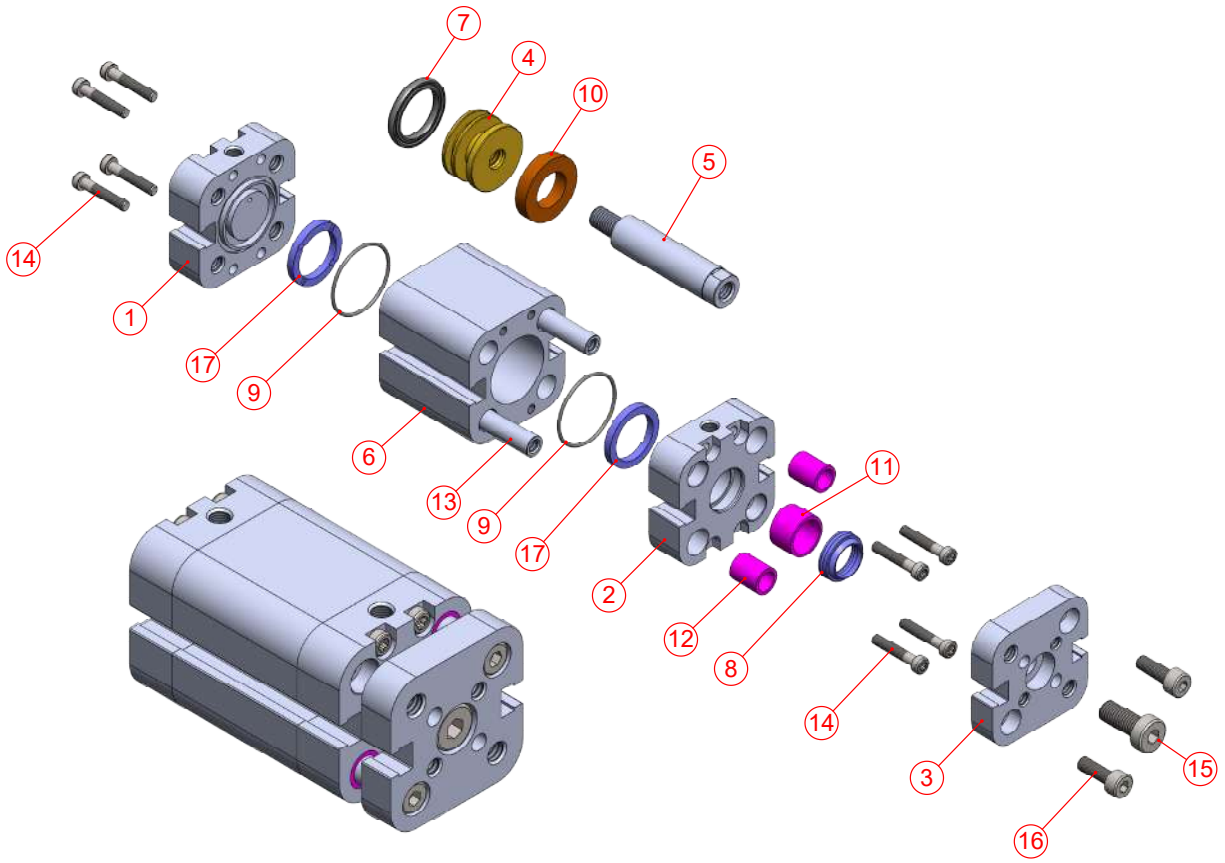
PKY-A	020 - 025	K4
Product Code	Cylinder ⌀ Stroke	Variants From Standard System





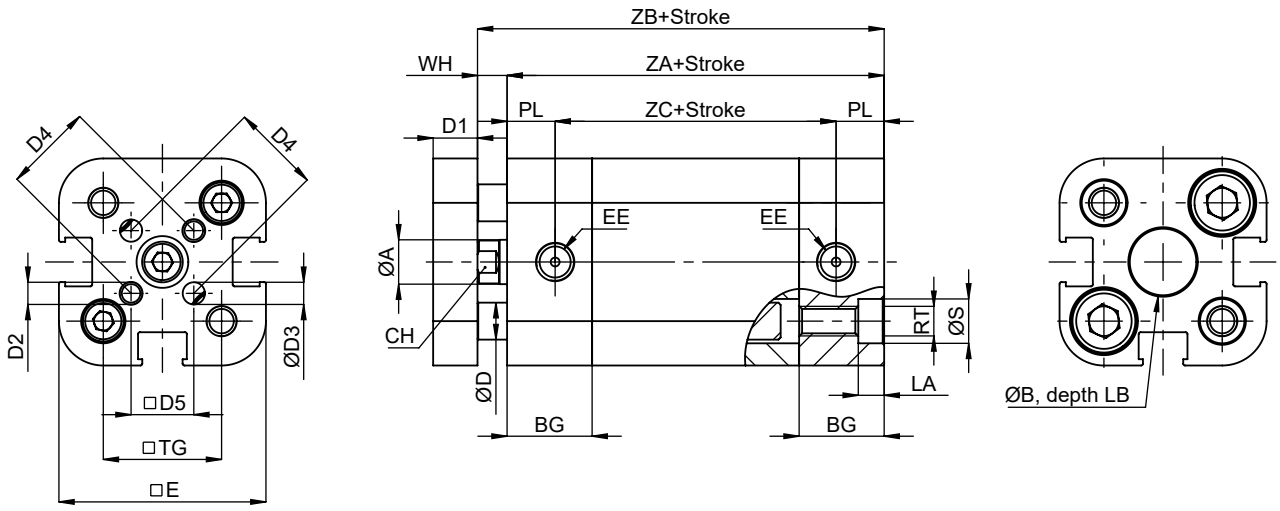
No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Piston Seal	NBR	1
7	Rod Seal	PU	1
8	Head O-Ring	NBR	2
9	Magnet		2
10	Guide Bush	CSB-40	1
11	Guide Bush	CSB-40	2
12	Guide Rod	AISI 303	2
13	Bracket Mounting	Aluminium+Eloxal Plated	1
14	Bolt	Galvanized Steel	4
15	Bolt	Galvanized Steel	2
16	Bolt	Galvanized Steel	1
17	Bumper	PU85	2



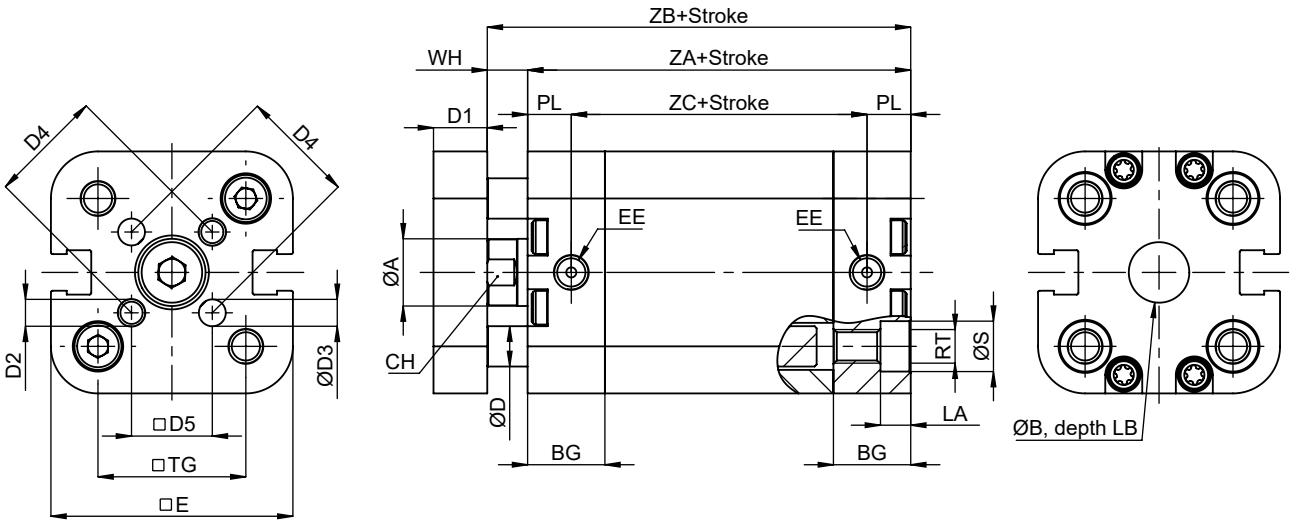


No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Bracket Mounting	Aluminium+Eloxal Plated	1
4	Middle Piston	Brass	1
5	Piston Rod	AISI 303	1
6	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
7	Piston Seal	NBR	1
8	Rod Seal	PU	1
9	Head O-Ring	NBR	2
10	Magnet		1
11	Guide Bush	CSB-40	1
12	Guide Bush	CSB-40	2
13	Guide Rod	AISI 303	2
14	Bolt	Galvanized Steel	8
15	Bolt	Galvanized Steel	1
16	Bolt	Galvanized Steel	2
17	Bumper	PU85	2

Ø12 - Ø16



Ø20 - Ø25



Cylinder Ø mm	A	D	D1	D2	D3	D4	D5	CH	WH	ZA	ZB	ZC	TG	E	PL	B	LB	LA	BG	S	RT	EE
12	6	5	6	M3	3	12	8.5	5	4	36	40	23	16	28	6.5	9	2.1	3.5	11.5	6	M4	M5
16	8	5	6	M3	3	14	10	7	5	37	42	24	18	29	6.5	9	2.1	3.5	11.5	6	M4	M5
20	10	6	8	M4	4	17	12	9	6	37	43	24	22	36	6.5	9	2.1	4.5	11.5	7.5	M5	M5
25	10	6	8	M5	5	22	15.6	9	6	39	45	26	26	38	6.5	9	2.1	4.5	11.5	7.5	M5	M5

MAGNETIC SENSOR

RUNNING OIL FREE

303 AISI 303 PISTON ROD

ELOXAL PLATED COVER

ELOXAL PLATED TUBE

PKS SERIES

ISO 21287 // ⌀12 - ⌀25

SINGLE ACTING (FRONT SPRING), COMPACT and MAGNETIC CYLINDER

PKS
SINGLE ACTING (FRONT SPRING), COMPACT CYLINDER

PKS-A
SINGLE ACTING (FRONT SPRING), COMPACT and MAGNETIC CYLINDER

- PROVIDES MINIMUM AIR CONSUMPTION and LOW EQUIPMENT COST
- COMPACT BODY STRUCTURE PROVIDES EASE OF USE IN NARROW WORK SPACES
- CORROSION AND OXIDATION RESISTANT BODY ELEMENTS ARE TOUGH OFFERS LONG LIFE IN ENVIRONMENTAL CONDITIONS
- MULTIPLE SENSOR CONNECTION POINT MAKES CYLINDER CONTROL EASIER
- GENERALLY, TEXTILE PRINTING MACHINES, THERMOFORMING and PLASTIC INJECTION USED IN MACHINES

FORCE

Cylinder ⌀ mm	Rod ⌀ mm	Thrust and traction forces (6 bar)										
		Thrust force (N)	Traction force (N)									
			Stroke 10		Stroke 20		Stroke 30		Stroke 40		Stroke 50	
			F1	F2	F1	F2	F1	F2	F1	F2	F1	F2
12	6	53	13	15	10	15	8	15	5	15	2	15
16	8	111	8	10	7	10	5	10	4	10	2	10
20	10	153	29	35	24	35	18	35	13	35	7	35
25	10	248	40	47	33	47	26	47	19	47	13	47

WORK CONDITIONS

Working Fluid:
Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:
Polyurethane (PU) : (-20 C) - (+80°C)
Viton (FKM) : (-30 C) - (+150°C)

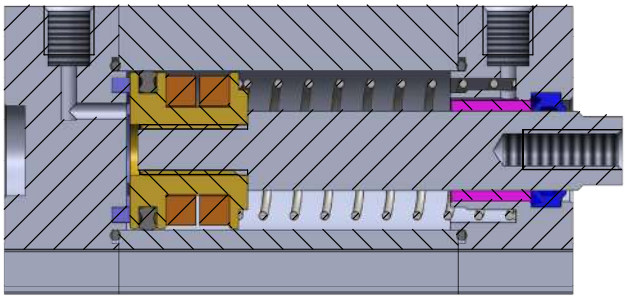
Max. Work Pressure:
10 Bar

VARIANTS FROM STANDARD SYSTEM

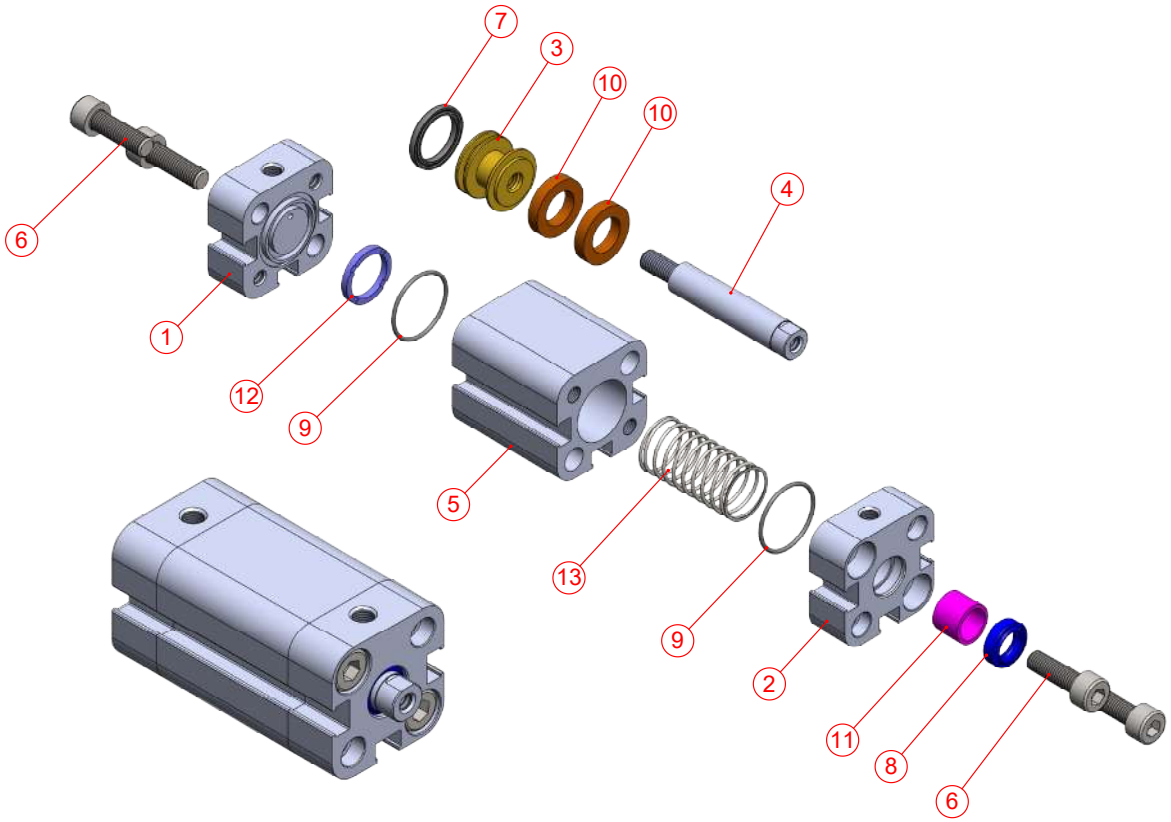
R4: Stainless Steel Nut for Piston Rod (AISI 304)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150°C (Viton)
K4: Piston Rod Seal Viton

EXAMPLE OF ORDER

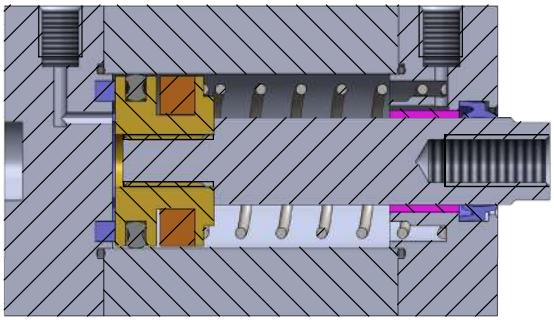
PKS-A	020 - 025	M1-K4
Product Code	Cylinder ⌀ Stroke	Variants From Standard System



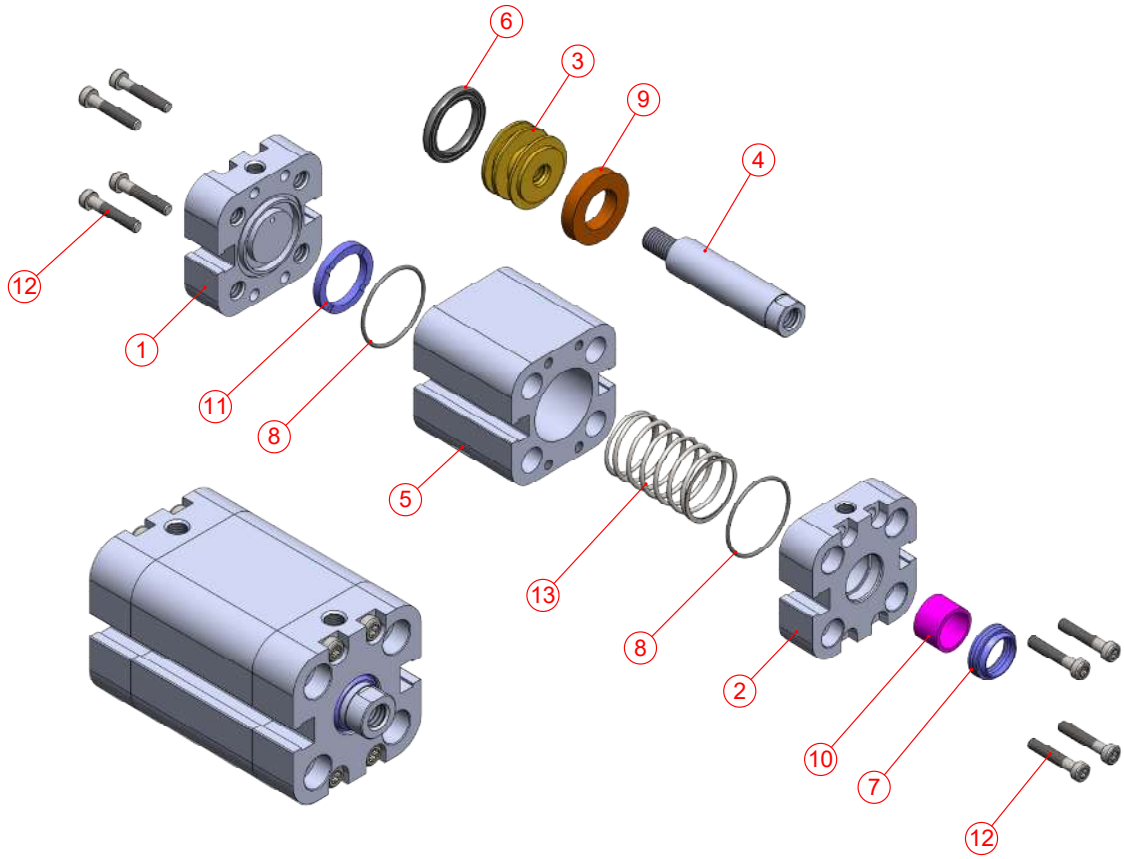
Stroke: Maximum 50mm



No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Bolt	Galvanized Steel	4
7	Piston Seal	NBR	1
8	Rod Seal	PU	1
9	Head O-Ring	NBR	2
10	Magnet		2
11	Guide Bush	CSB-40	1
12	Bumper	PU85	1
13	Spring	Stainless Steel	1

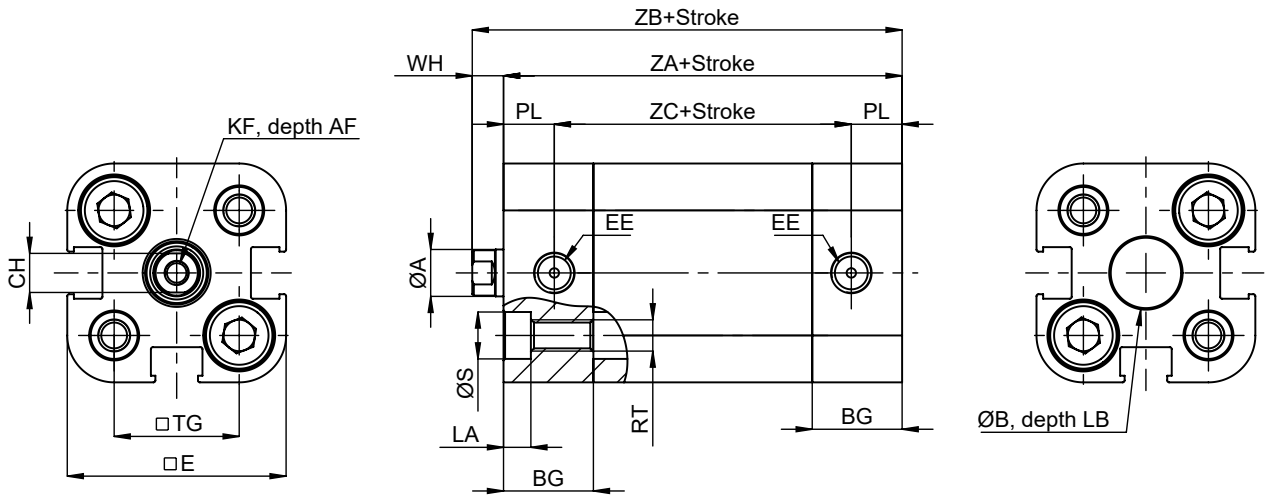


Stroke: Maximum 50mm

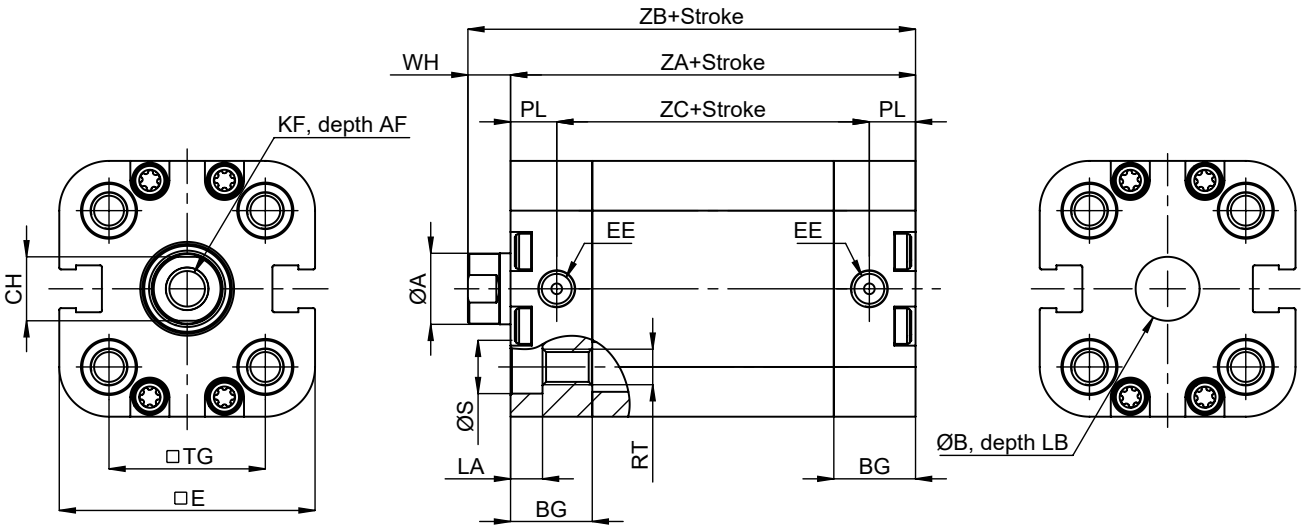


No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Piston Seal	NBR	1
7	Rod Seal	PU	1
8	Head O-Ring	NBR	2
9	Magnet		1
10	Guide Bush	CSB-40	1
11	Bumper	PU85	1
12	Bolt	Galvanized Steel	8
13	Spring	Stainless Steel	1

Ø12 - Ø16



Ø20 - Ø25



Cylinder Ø mm	A	CH	WH	ZA	ZB	ZC	KF	AF	TG	E	PL	B	LB	LA	BG	S	RT	EE
12	6	5	4	36	40	23	M3	8	16	28	6.5	9	2.1	3.5	11.5	6	M4	M5
16	8	7	5	37	42	24	M4	10	18	29	6.5	9	2.1	3.5	11.5	6	M4	M5
20	10	9	6	37	43	24	M6	12	22	36	6.5	9	2.1	4.5	11.5	7.5	M5	M5
25	10	9	6	39	45	26	M6	12	26	38	6.5	9	2.1	4.5	11.5	7.5	M5	M5

MAGNETIC SENSOR

RUNNING OIL FREE

303 AISI 303 PISTON ROD

ELOXAL PLATED COVER

ELOXAL PLATED TUBE

PKE SERIES

ISO 21287 // ⌀12 - ⌀25

SINGLE ACTING (REAR SPRING), COMPACT and MAGNETIC CYLINDER

PKE
SINGLE ACTING (REAR SPRING) and COMPACT CYLINDER

PKE-A
SINGLE ACTING (REAR SPRING), COMPACT and MAGNETIC CYLINDER

- PROVIDES MINIMUM AIR CONSUMPTION and LOW EQUIPMENT COST
- COMPACT BODY STRUCTURE PROVIDES EASE OF USE IN NARROW WORK SPACES
- CORROSION AND OXIDATION RESISTANT BODY ELEMENTS ARE TOUGH OFFERS LONG LIFE IN ENVIRONMENTAL CONDITIONS
- MULTIPLE SENSOR CONNECTION POINT MAKES CYLINDER CONTROL EASIER
- GENERALLY, TEXTILE PRINTING MACHINES, THERMOFORMING and PLASTIC INJECTION USED IN MACHINES

FORCE

Cylinder ⌀ mm	Rod ⌀ mm	Thrust and traction forces (6 bar)										
		Traction force (N)	Thrust force (N)									
			Stroke 10		Stroke 20		Stroke 30		Stroke 40		Stroke 50	
			F1	F2	F1	F2	F1	F2	F1	F2	F1	F2
12	6	37	12	14	9	14	7	14	4	14	2	14
16	8	80	8	10	7	10	5	10	4	10	2	10
20	10	106	29	35	24	35	18	35	13	35	7	35
25	10	200	40	47	33	47	26	47	19	47	13	47

WORK CONDITIONS

Working Fluid:
Filtered and lubricated or filtered and not lubricated air

Operating Temperature Range:
Polyurethane (PU) : (-20 C) - (+80°C)
Viton (FKM) : (-30 C) - (+150°C)

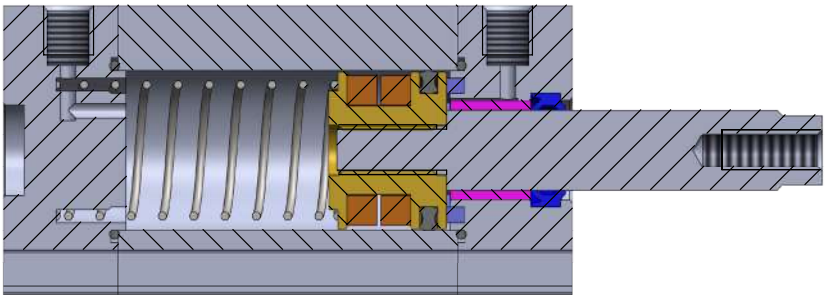
Max. Work Pressure:
10 Bar

VARIANTS FROM STANDARD SYSTEM

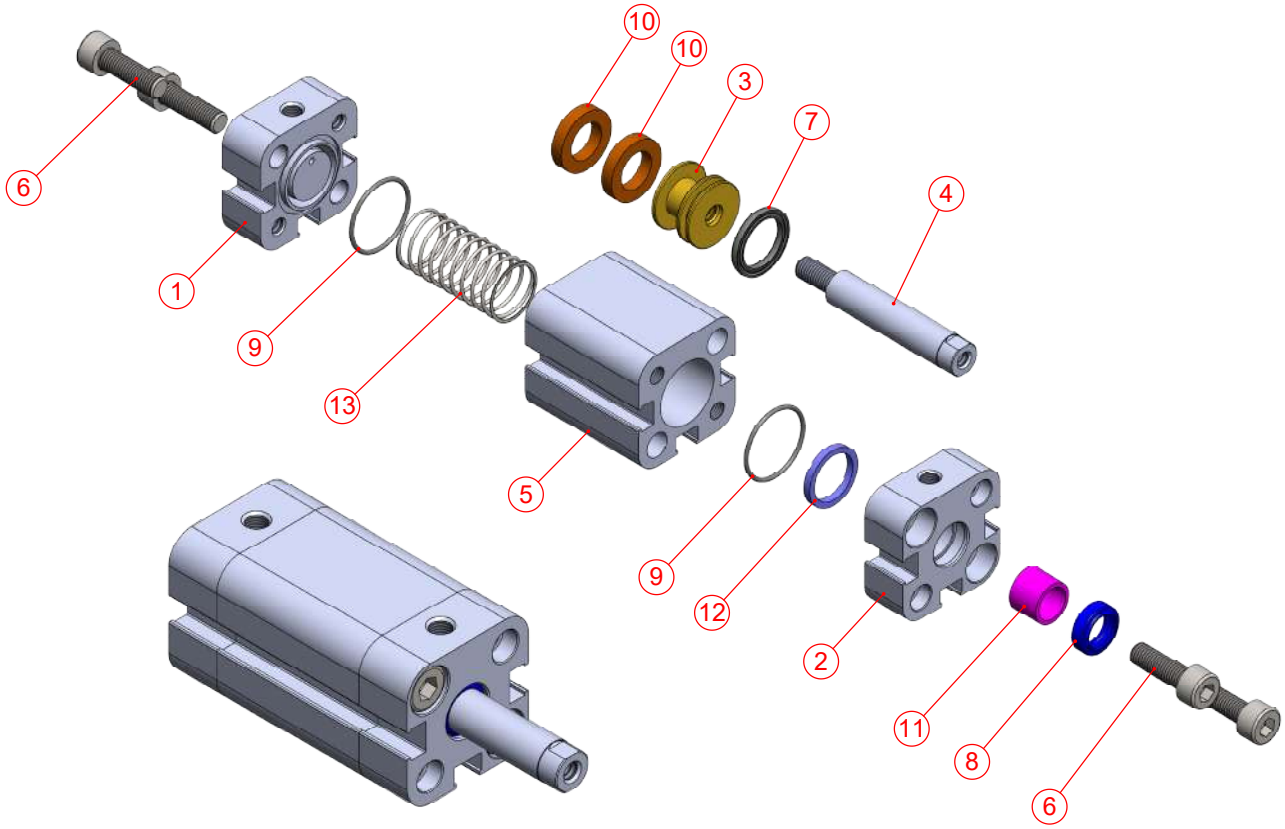
R4: Stainless Steel Nut for Piston Rod (AISI 304)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150°C (Viton)
K4: Piston Rod Seal Viton

EXAMPLE OF ORDER

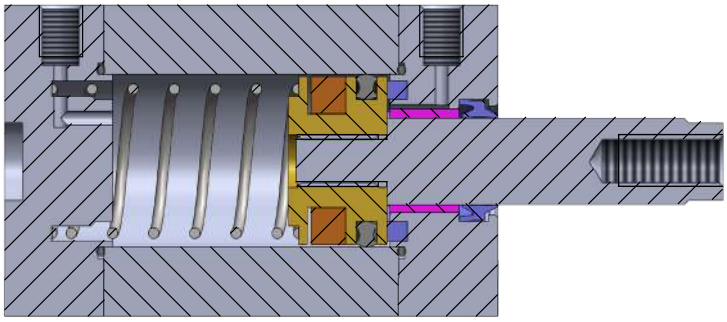
PKE-A — Product Code
020 - 025 — Cylinder ⌀ Stroke
M4-K4 — Variants From Standard System



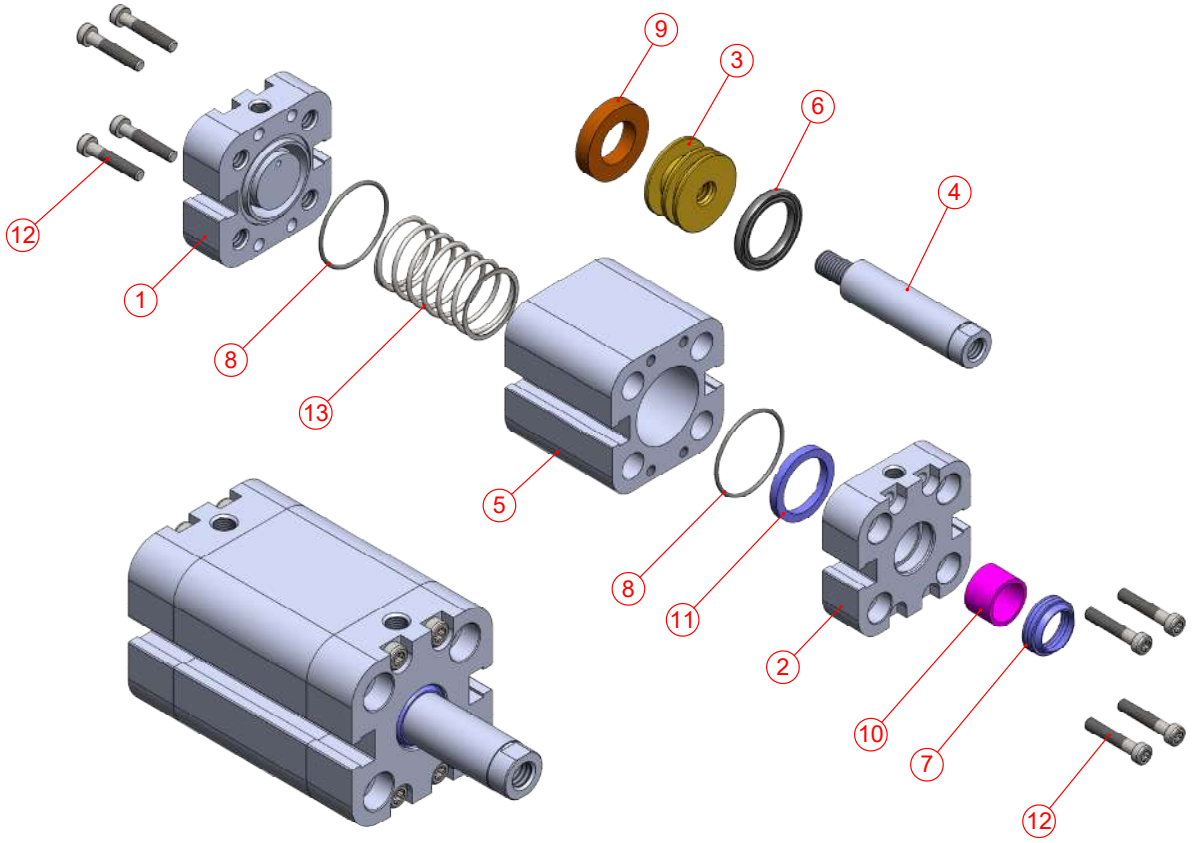
Stroke: Maximum 50mm



No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Bolt	Galvanized Steel	4
7	Piston Seal	NBR	1
8	Rod Seal	PU	1
9	Head O-Ring	NBR	2
10	Magnet		2
11	Guide Bush	CSB-40	1
12	Bumper	PU85	1
13	Spring	Stainless Steel	1

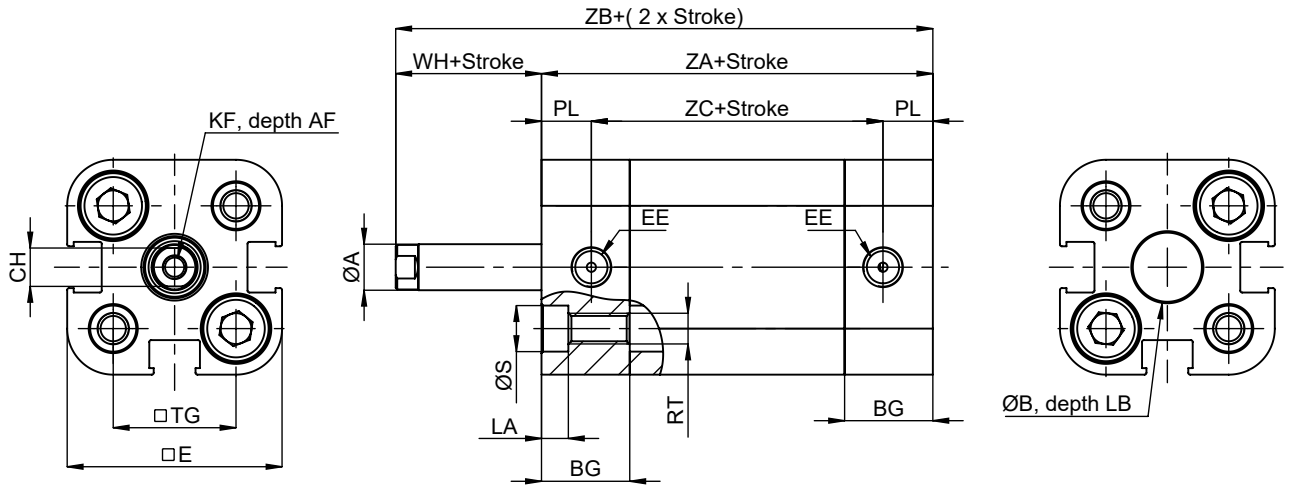


Stroke: Maximum 50mm

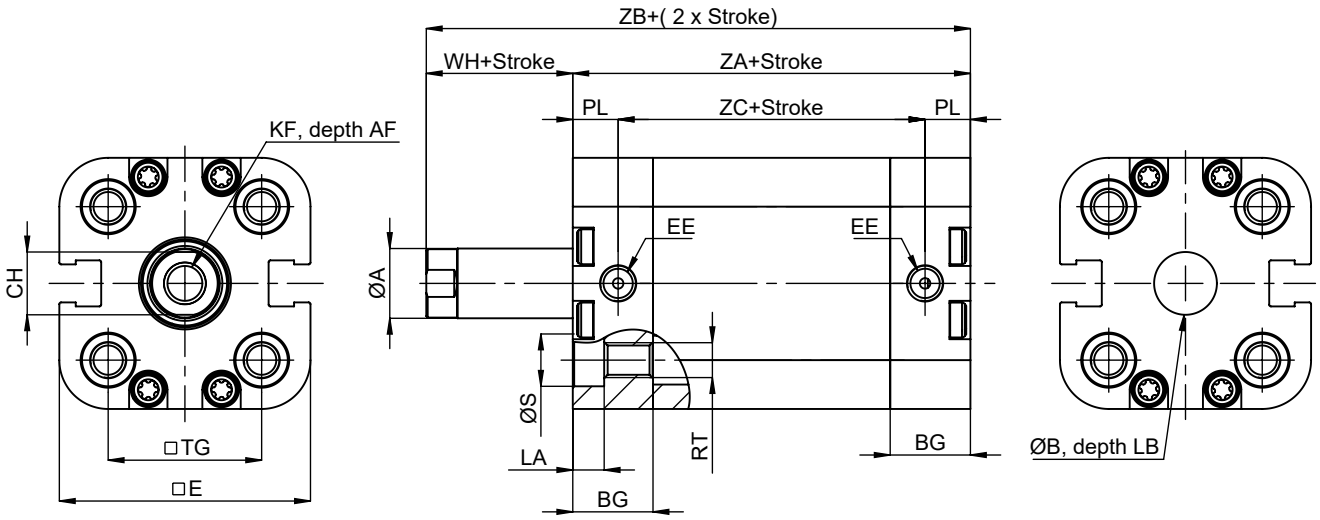


No	Material name	Characteristic	Pc.
1	Rear Head	Aluminium+Eloxal Plated	1
2	Front Head	Aluminium+Eloxal Plated	1
3	Middle Piston	Brass	1
4	Piston Rod	AISI 303	1
5	Cylinder Tube	AlMgSi0.5+Eloxal Plated	1
6	Piston Seal	NBR	1
7	Rod Seal	PU	1
8	Head O-Ring	NBR	2
9	Magnet		1
10	Guide Bush	CSB-40	1
11	Bumper	PU85	1
12	Bolt	Galvanized Steel	8
13	Spring	Stainless Steel	1

Ø12 - Ø16

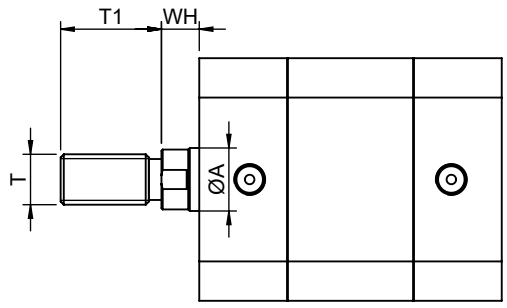


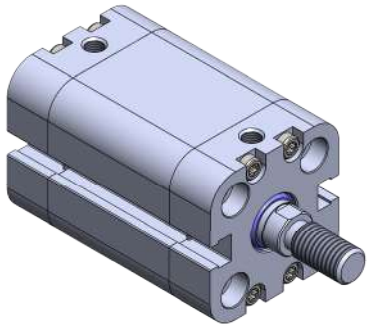
Ø20 - Ø25



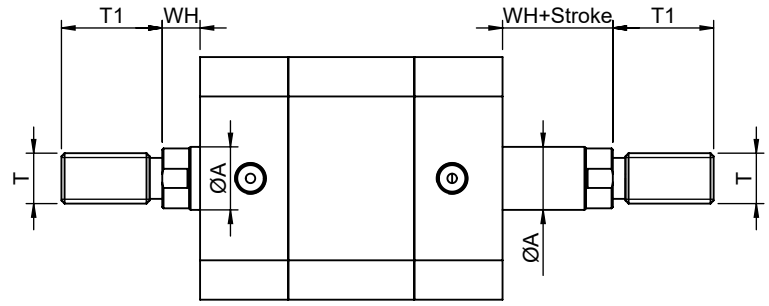
Cylinder Ø mm	A	CH	WH	ZA	ZB	ZC	KF	AF	TG	E	PL	B	LB	LA	BG	S	RT	EE
12	6	5	4	36	40	23	M3	8	16	28	6.5	9	2.1	3.5	11.5	6	M4	M5
16	8	7	5	37	42	24	M4	10	18	29	6.5	9	2.1	3.5	11.5	6	M4	M5
20	10	9	6	37	43	24	M6	12	22	36	6.5	9	2.1	4.5	11.5	7.5	M5	M5
25	10	9	6	39	45	26	M6	12	26	38	6.5	9	2.1	4.5	11.5	7.5	M5	M5

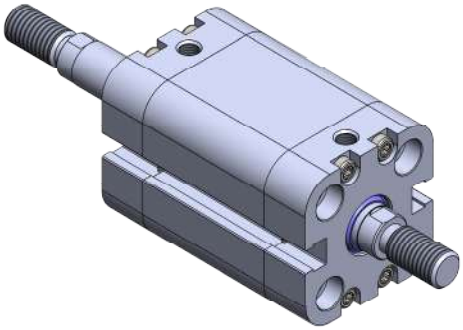
PK-T



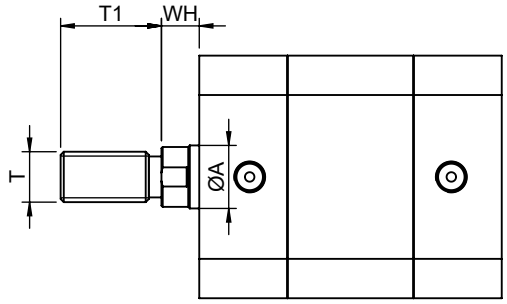


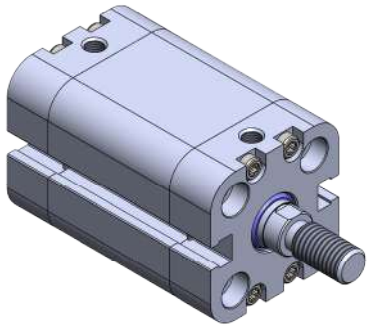
PKD-T



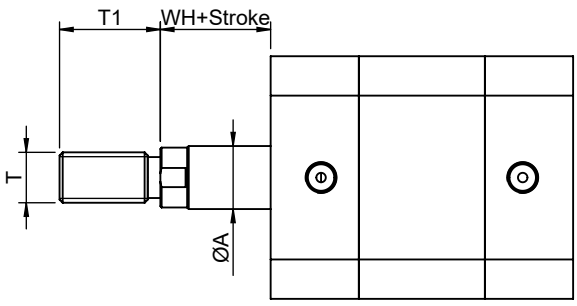


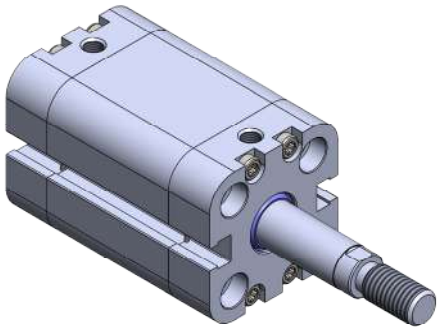
PKS-T





PKE-T





Cylinder Type	Cylinder Ø mm	A	WH	T	T1
PK-PKD-PKS-PKE	12	6	4	M5	10
	16	8	5	M6	12
	20	10	6	M8	16
	25	10	6	M8	16