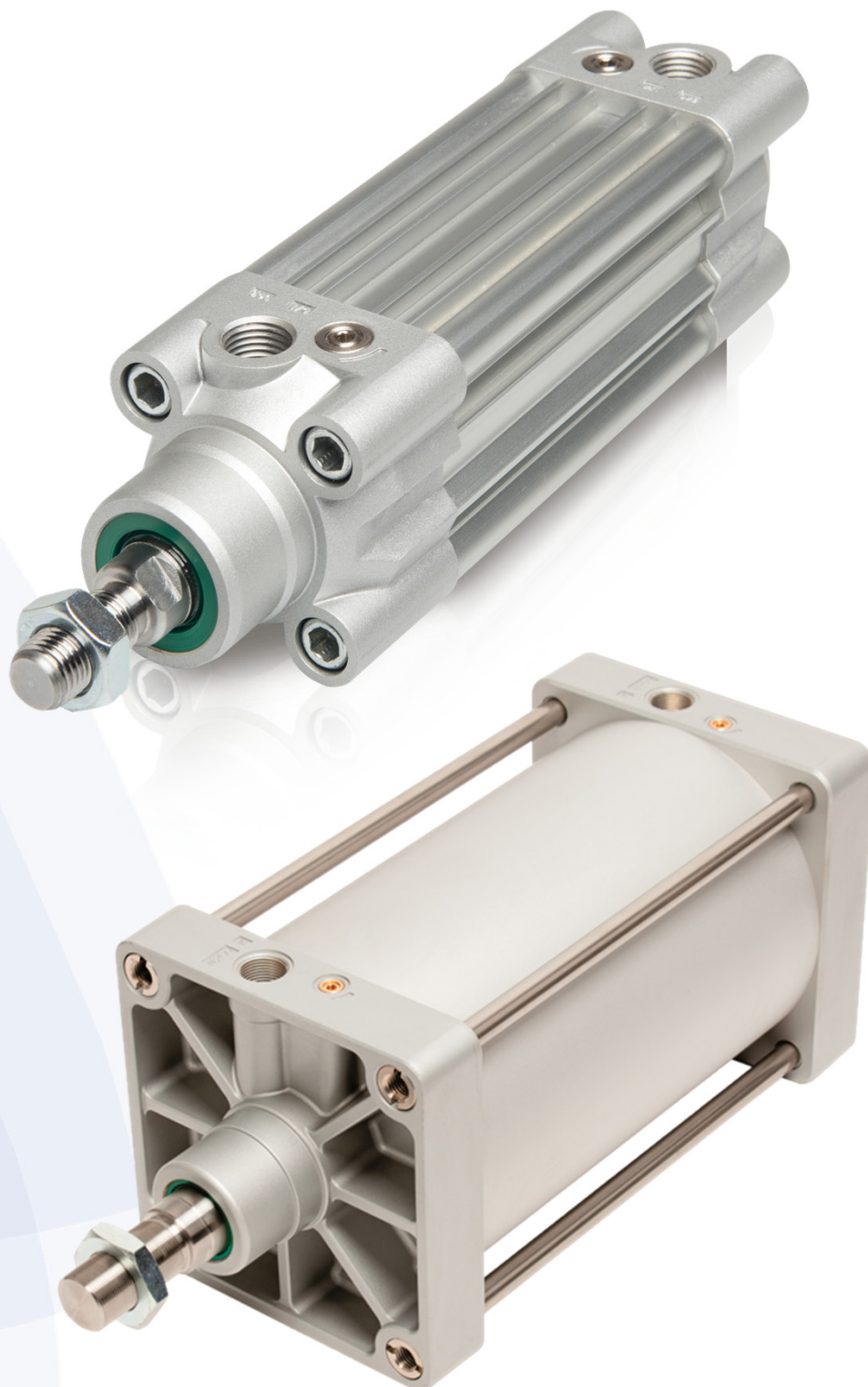


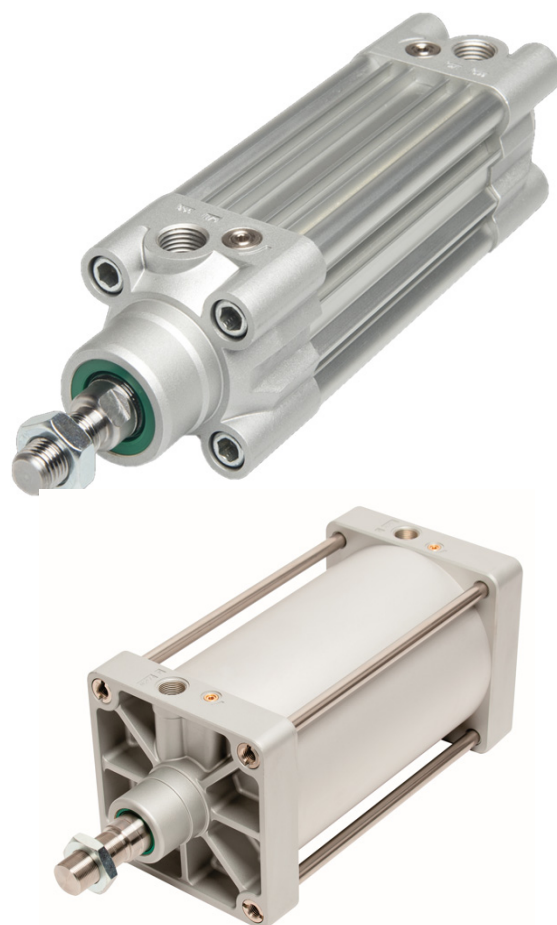
P2720 Cylinder series ISO 15552



Technical characteristics and construction

Technical characteristics

- Double acting and spring return version
- Magnetic piston as standard feature
- ISO15552 construction
- Diecast aluminium covers
- Hard anodized profile tube or round tube with tie rod construction available
- Chromed piston rod
- Pressure range 0...10 bar
- Temperature range -35...+80°C with standard seals (PU) and 0...150°C with high temperature seals
- Media: Pressurized air (Filtered 40µm) or inert gases, lubricated or dry
- Diameter: 32, 40, 50, 63, 80, 100, 125, 160, 200, 250 and 320mm
- Standard strokes 25...1000 mm (double acting)
- Stroke lengths of spring return cylinders 25,50,80,100,125 and 160mm (profiled tube only available)
- Special seals available upon request



Theoretical force of double acting cylinders at 6bar

Diameter	32	40	50	63	80	100
Thrust (N)	484	754	1178	1870	3016	4712
Traction (N)	415	633	990	1682	2721	4418

Spring force of spring return cylinders

Diameter ø (mm)	Stroke (mm)	25	50	80	100	125	150	160
32	R (N)	54	40	25	40	34	27	25
	C(N)	66	66	66	66	66	66	66
40	R (N)	70	55	36	55	47	39	36
	C(N)	86	86	86	86	86	86	86
50	R (N)	103	84	62	84	75	65	62
	C(N)	122	122	122	122	122	122	122
63	R (N)	132	84	62	84	75	65	62
	C(N)	155	122	122	122	122	122	122
80	R (N)	132	108	80	108	96	84	80
	C(N)	155	155	155	155	155	155	155
100	R (N)	132	108	80	108	96	84	80
	C(N)	155	155	155	155	155	155	155

R(N) load of spring in resting position (N)

C(N) load of compressed spring (N)

P2720 product code

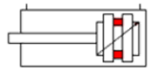
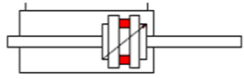
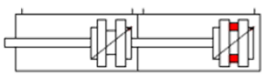
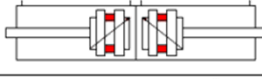
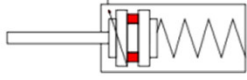
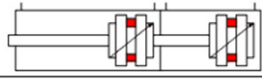
Product code:

P2720 VH-32/12 - 100 + BH+...+PNO

1. 2. 3. 4. 5. 6.

1. Cylinder serie
2. Blank= Standard construction, profile tube
R=Round tube with tie rods
H= AISI 316 piston rod (chromed)
K= External parts aluminium/stainless steel, piston rod AISI316
V=High temp seals
3. Bore/piston rod diameter
4. Stroke lenght
5. Mounting accessories
6. Drawing number (special design)



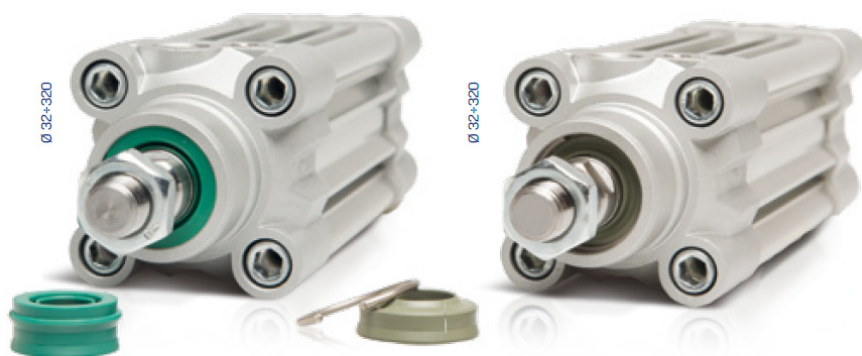
P2720	Double acting cylinder with magnetic piston rod	Cylinder with 2 positions	
P2721	Cylinder with double rod	Work can be done on both sides of the cylinder, and the force is equal in both extend and retract for the same operating pressure	
P2722	Double cylinder (tandem)	Both cylinders have a same stroke length and same piston rod. Retract force is doubled and extend force is nearly doubled	
P2723	Rear opposed tandem	Both cylinders have different strokes so cylinder has 4 positions	
P2724	Cylinder with spring return (front spring)	Single acting cylinder cylinder with front spring	
P2725	Cylinder with spring return (rear spring)	Single acting cylinder cylinder with rear spring	
P2728	Multi-position tandem	Cylinders have different stroke length and different piston rods. Cylinder has 3 positions.	
P2729	Double acting cylinder with internal anti rotation	Double acting cylinder with internal anti-rotation	

P2724 available with following stroke lengths: 25,50,80,100,125,150 and 160mm

P2725 available with following stroke lengths: 25,50,80mm

P2720 Seal material

Standard seals PU and FKM



STANDARD SEAL

- Polyurethane (PU)
- $T -35^{\circ}\text{C} \div +80^{\circ}\text{C}$
- General applications, also with heavy workload

HIGH TEMPERATURE SEAL

- FKM
- $T -10^{\circ}\text{C} \div +150^{\circ}\text{C}$
- Applications with high temperatures and/or chemical agents

Special seals available upon request



FDA APPROVED SEAL

Polyurethane (PU) P5600
 $-20^{\circ}\text{C} \div +80^{\circ}\text{C}$
 Applications in direct contact with foodstuff and/or corrosive agents

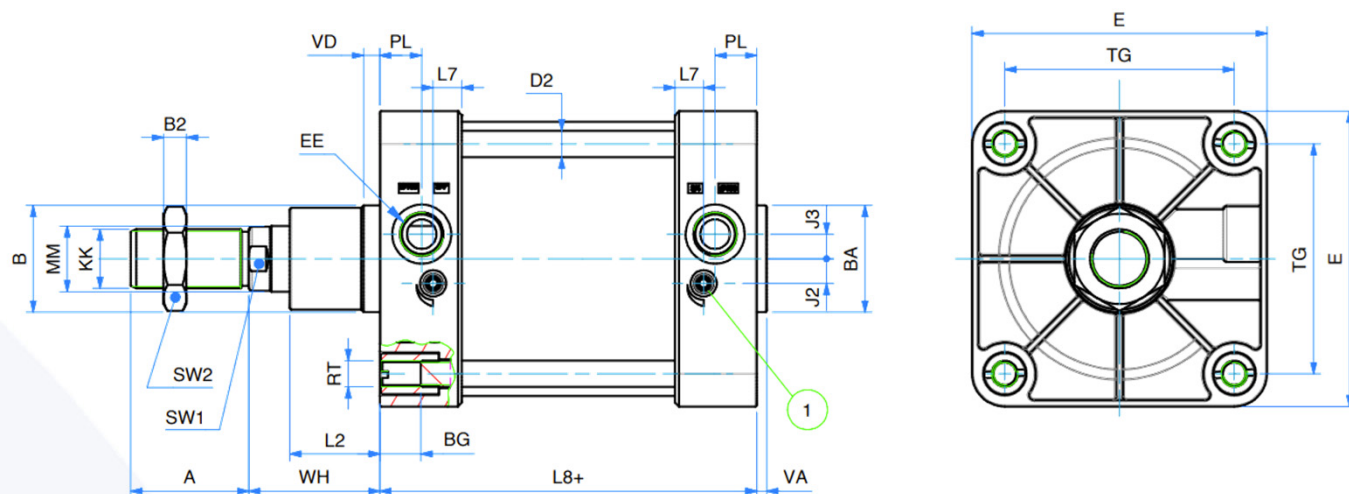
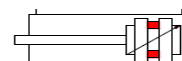
SEAL AND SCRAPER

NBR and plastic scraper material (TP-E)
 $-20^{\circ}\text{C} \div +80^{\circ}\text{C}$
 Applications with dust and dirt

SEAL AND METAL SCRAPER

FKM and lamella scraper made of metal
 $-10^{\circ}\text{C} \div +150^{\circ}\text{C}$
 Applications in very dirty environment with high temperatures

P2720 Double acting cylinder



Dimensions

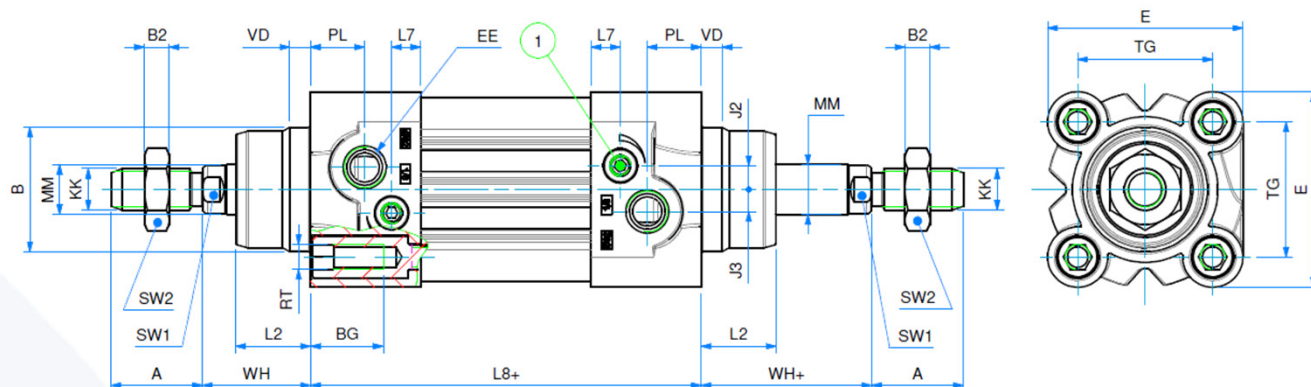
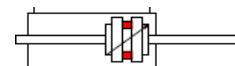
ø	32	40	50	63	80	100	125	160	200	250	320
A	22	24	32	32	40	40	54	72	72	84	96
øB	30	35	40	45	45	55	60	65	75	90	110
øBA	30	35	40	45	45	55	60	65	75	90	110
B2	6	7	8	8	9	9	12	14	14	16	18
BG	16	16	16	16	17	17	20	24	24	25	28
D2	6	6	8	8	10	10	12	16	16	20	25
E	47	54,5	65	75	93	110	134	180	220	270	350
EE	G 1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G1/2	G3/4"	G3/4"	G1"	G1"
J2	5,7	7,3	7	8	8	12	10	15	15	25	35
J3	5,3	5	6	7,5	7	7	7	15	15	25	35
KF	M6	M8	M8	M10	M10	M12	M16	M20	M20	M24	M30
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2	M36x2	M36x2	M42x2	M48x2
L2	18	22	25,5	26	32	38	46	55	65	75	90
L7	7	9,2	9	8	10,5	10	11	17,5	16	20	20
L8+	94	105	106	121	128	138	160	180	180	200	220
øMM	12	16	20	20	25	25	32	40	40	50	63
PL	13	14	14	16	16	18	18	25,5	25,5	30	30
RT	M6	M6	M8	M8	M10	M10	M12	M16	M16	M20	M24
SW 1	10	13	17	17	22	22	27	36	36	46	55
SW 2	17	19	24	24	30	30	41	55	55	65	75
TG	32,5	38	46,5	56,5	72	89	110	140	175	220	270
VA	4	4	4	4	4	4	6	6	8	8	10
VD	5	5	6	6	7	7	10	10	25	25	25
WH	26	30	37	37	46	51	65	80	95	105	120
*	20	22	25	25	35	35	35	45	45	45	45

+ stroke length

* cushioning length

D2=diameter of tie rod (only at tie rod construction)

P2721 Cylinder with double rod



Dimensions

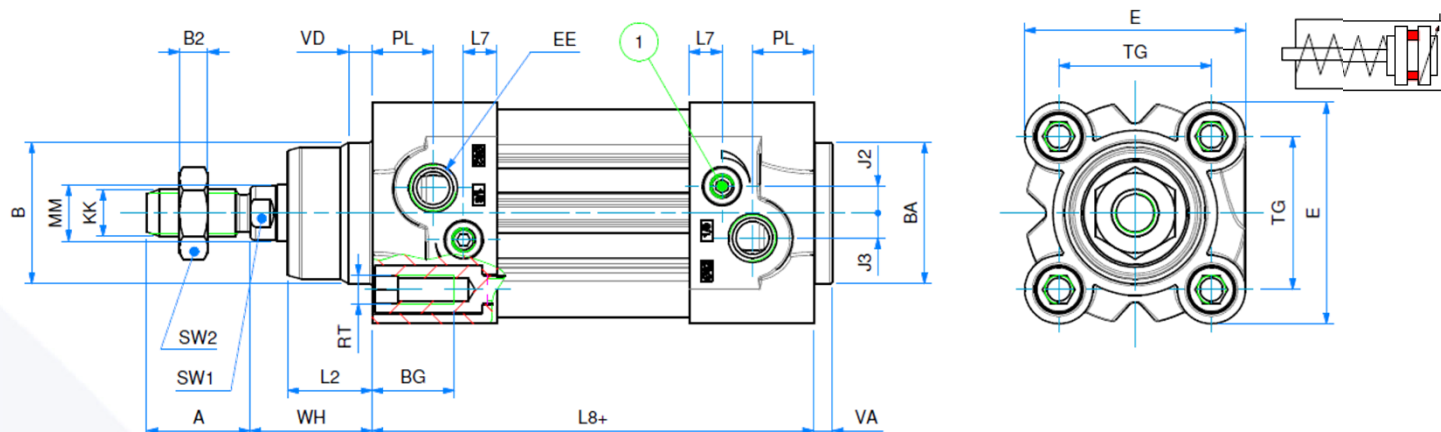
ø	32	40	50	63	80	100	125	160	200	250	320
A	22	24	32	32	40	40	54	72	72	84	96
øB	30	35	40	45	45	55	6	65	75	90	110
B2	6	7	8	8	9	9	12	14	14	16	18
BG	16	16	16	16	17	17	20	24	24	25	28
D2	6	6	8	8	10	10	12	16	16	20	25
E	47	54,5	65	75	93	110	134	180	220	270	350
EE	G 1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G1/2"	G3/4"	G3/4"	G1"	G1"
J2	5,7	7,3	7	8	8	12	10	15	15	25	35
J3	5,3	5	6	7,5	7	7	7	15	15	25	35
KF	M6	M8	M8	M10	M10	M12	M16	M20	M20	M24	M30
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2	M36x2	M36x2	M42x2	M48x2
L2	18	22	25,5	26	32	38	46	55	65	75	90
L7	7	9,2	9	8	10,5	10	11	17,5	16	20	20
L8+	94	105	106	121	128	138	160	180	180	200	220
øMM	12	16	20	20	25	25	32	40	40	50	63
PL	13	14	14	16	16	18	18	25,5	25,5	30	30
RT	M6	M6	M8	M8	M10	M10	M12	M16	M16	M20	M24
SW1	10	13	17	17	22	22	27	36	36	46	55
SW2	17	19	24	24	30	30	41	55	55	65	75
TG	32,5	38	46,5	56,5	72	89	110	140	175	220	270
VD	5	5	6	6	7	7	10	10	25	25	25
WH	26	30	37	37	46	51	65	80	95	105	120
WH+	26	30	37	37	46	51	65	80	95	105	120
*	20	22	25	25	35	35	35	45	45	45	45

+ stroke length

* cushioning length

D2=diameter of tie rod (only at tie rod construction)

P2724 Single acting cylinder, front spring



Dimensions

ø	32	40	50	63	80	100
A	22	24	32	32	40	40
øB	30	35	40	45	45	55
øBA	30	35	40	45	45	55
B2	6	7	8	8	9	9
BG	16	16	16	16	17	17
D2	6	6	8	8	10	10
E	47	54,5	65	75	93	110
EE	G 1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"
J2	5,7	7,3	7	8	8	12
J3	5,3	5	6	7,5	7	7
KF	M6	M8	M8	M10	M10	M12
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5
L2	18	22	25,5	26	32	38
L7	7	9,2	9	8	10,5	10
L8+	94	105	106	121	128	138
øMM	12	16	20	20	25	25
PL	13	14	14	16	16	18
RT	M6	M6	M8	M8	M10	M10
SW 1	10	13	17	17	22	22
SW 2	17	19	24	24	30	30
TG	32,5	38	46,5	56,5	72	89
VA	4	4	4	4	4	4
VD	5	5	6	6	7	7
WH	26	30	37	37	46	51
WH+	26	30	37	37	46	51
*	20	22	25	25	35	35

+ Stroke length

* Cushioning length

** Valid when stroke length is 100, 125, 150 and 160

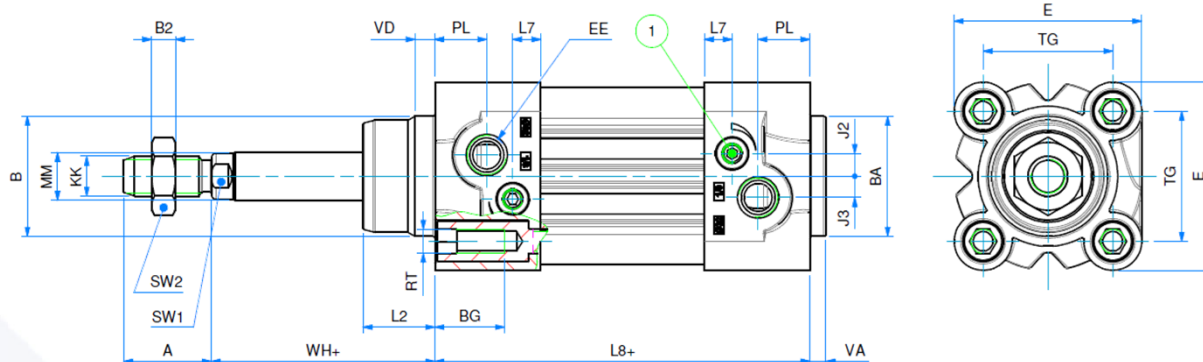
Diameter 32 and 40 add +40 mm

Diameter 50 and 63 add +45 mm

Diameter 80 and 100 add +60 mm

Note: Spring side without cushioning

P2725 Single acting cylinder, resr pring



Dimensions

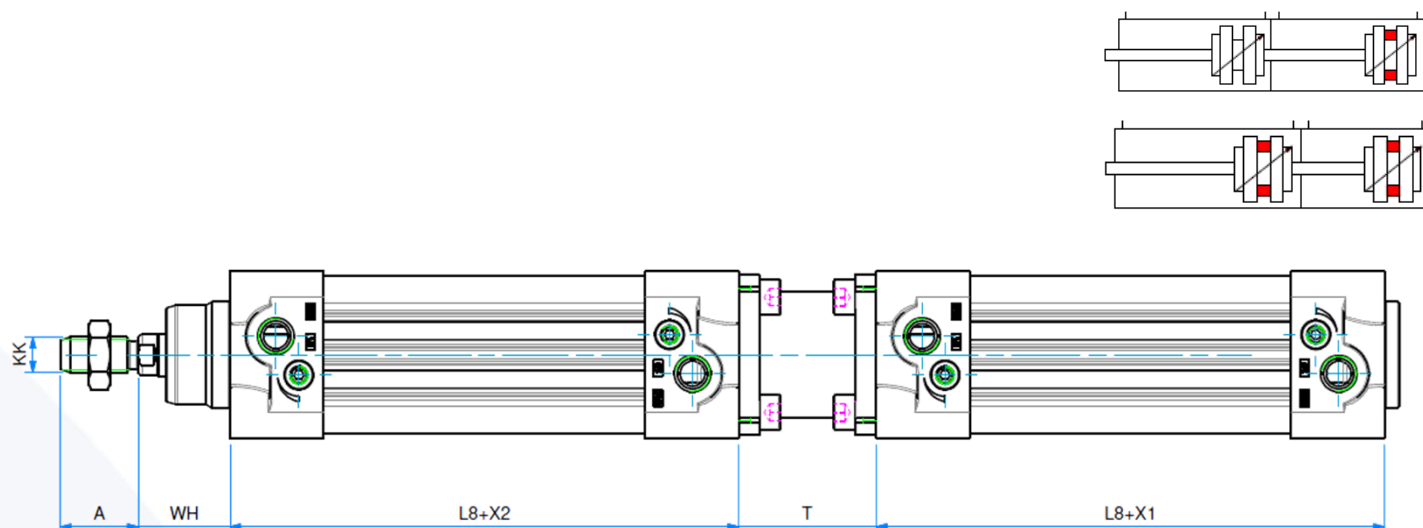
ø	32	40	50	63	80	100
A	22	24	32	32	40	40
øB	30	35	40	45	45	55
øBA	30	35	40	45	45	55
B2	6	7	8	8	9	9
BG	16	16	16	16	17	17
D2	6	6	8	8	10	10
E	47	54,5	65	75	93	110
EE	G 1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"
J2	5,7	7,3	7	8	8	12
J3	5,3	5	6	7,5	7	7
KF	M6	M8	M8	M10	M10	M12
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5
L2	18	22	25,5	26	32	38
L7	7	9,2	9	8	10,5	10
L8+	94	105	106	121	128	138
øMM	12	16	20	20	25	25
PL	13	14	14	16	16	18
RT	M6	M6	M8	M8	M10	M10
SW 1	10	13	17	17	22	22
SW 2	17	19	24	24	30	30
TG	32,5	38	46,5	56,5	72	89
VA	4	4	4	4	4	4
VD	5	5	6	6	7	7
WH	26	30	37	37	46	51
WH+	26	30	37	37	46	51
*	20	22	25	25	35	35

+ Stroke length

* Cushioning length

Note: Spring side without cushioning

P2722 Double thrust (Tandem), sekä P2728 Multi position tandem

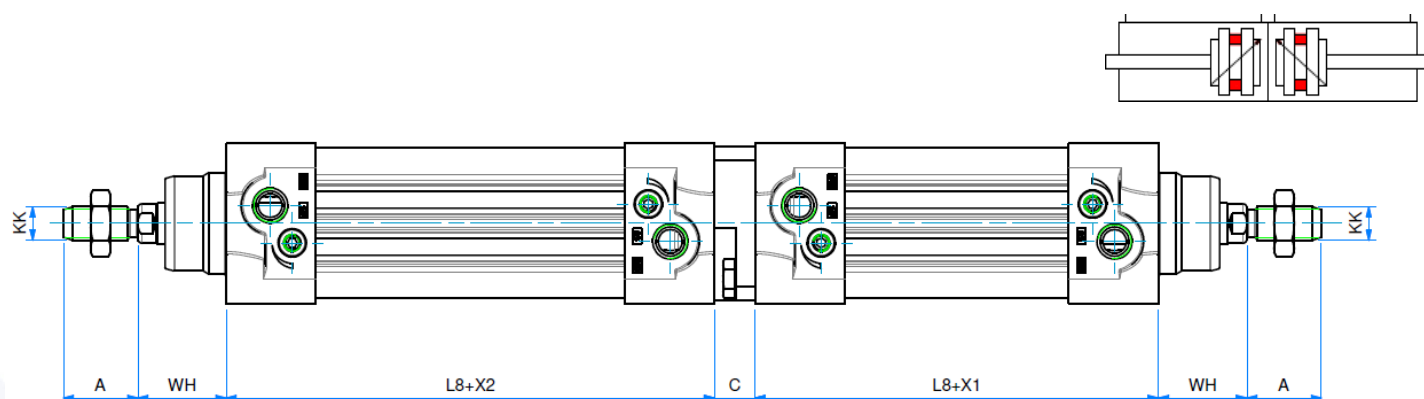


Dimensions

ø	32	40	50	63	80	100	125	160	200	250	320
A	22	24	32	32	40	40	54	72	72	84	96
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2	M36x2	M36x2	M42x2	M48x2
L8	94	105	106	121	128	138	160	180	180	200	220
T	39	45	52	53	65	77	93	112	132	152	182
WH	26	30	37	37	46	51	65	80	95	105	120
X1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1
X2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2
*	20	22	25	25	35	35	35	45	45	45	45

* Stroke length mm

P2723 Rear opposed Tandem



Dimensions

ø	32	40	50	63	80	100	125	160	200	250	320
A	22	24	32	32	40	40	54	72	72	84	96
C	12	12	16	16	20	20	30	25	25	30	40
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2	M36x2	M36x2	M42x2	M48x2
L8	94	105	106	121	128	138	160	180	180	200	220
WH	26	30	37	37	46	51	65	80	95	105	120
X1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1	Stroke 1
X2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2	Stroke 2
*	20	22	25	25	35	35	35	45	45	45	45

* Cushioning length mm

P2729 Double acting cylinder with anti rotation (internal)



Cylinder with internal anti-rotation function. Available only with profiled tube. Dimensions according to ISO 15552 standard

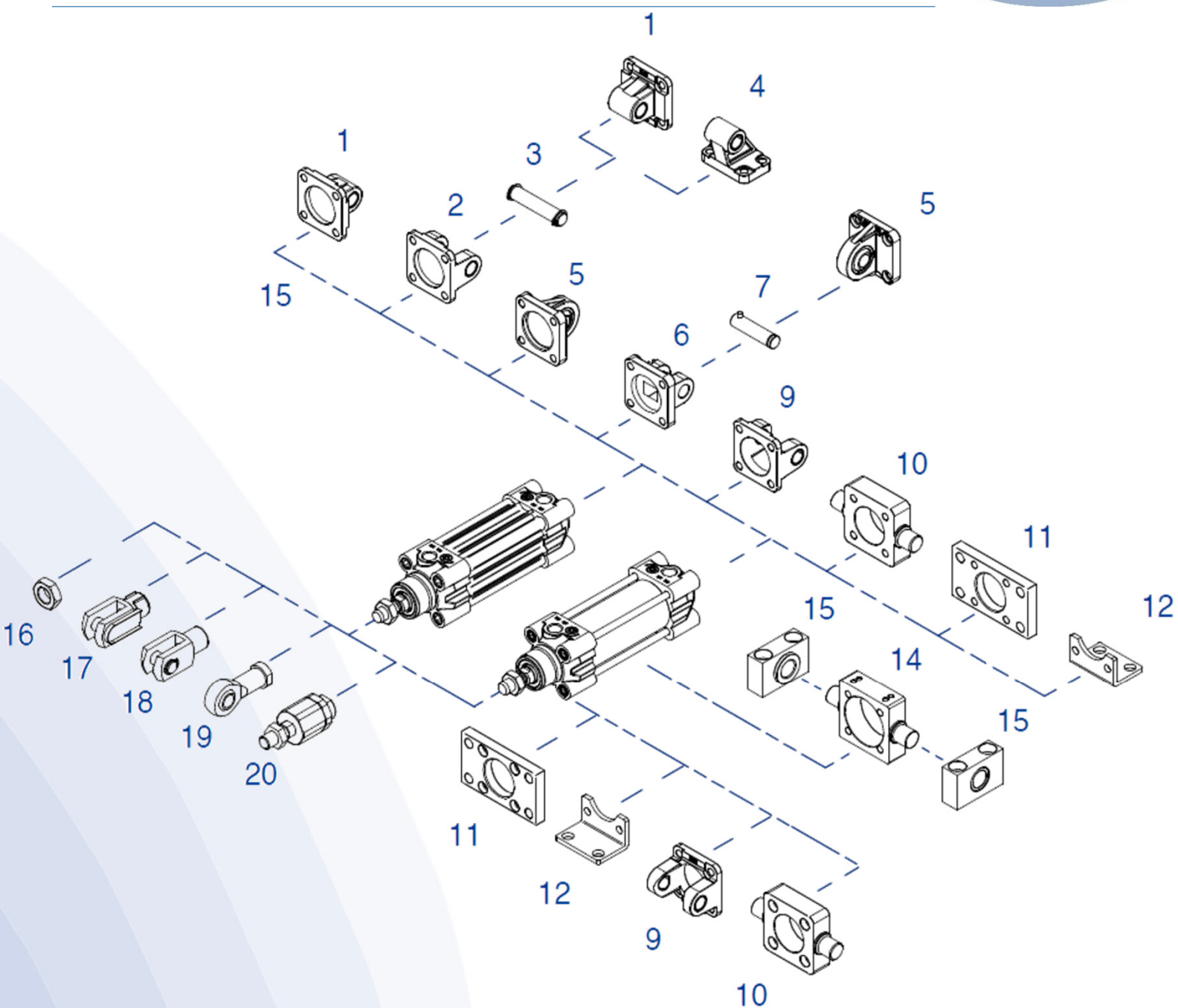
Dimension

ø	32	40	50	63	80	100
A	22	24	32	32	40	40
øB	30	35	40	45	45	55
øBA	30	35	40	45	45	55
B2	6	7	8	8	9	9
BG	16	16	16	16	17	17
D2	6	6	8	8	10	10
E	47	54,5	65	75	93	110
EE	G 1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"
J2	5,7	7,3	7	8	8	12
J3	5,3	5	6	7,5	7	7
KF	M6	M8	M8	M10	M10	M12
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5
L2	18	22	25,5	26	32	38
L7	7	9,2	9	8	10,5	10
L8+	94	105	106	121	128	138
øMM	12	16	20	20	25	25
PL	13	14	14	16	16	18
RT	M6	M6	M8	M8	M10	M10
SW 1	10	13	17	17	22	22
SW 2	17	19	24	24	30	30
TG	32,5	38	46,5	56,5	72	89
VA	4	4	4	4	4	4
VD	5	5	6	6	7	7
WH	26	30	37	37	46	51
*	20	22	25	25	35	35

+ stroke length

* Cushioning length

Mounting accessories ISO 15552



1. Male hinge PA (MP4)

2+3. Female hinge MA (MP2)

4. Square hinge LA (AB7)

5. Male hinge with ball joint RA std (MP6)

6+7 Narrow female hinge NA (AB7)

10. Front-rear hinge

11. ISO flange FS (MF2)

12. ISO foot mounting pair SS (MS1)

14. Intermediate hinge for tie rod TA

15. Support for intermediate hinge VDMA (AT4)

16. Nut DS

17. Clevis with locable pin CS

19. Rod eye BS

20. Self-aligning joint

Product code example
RA 050 20

R=Type of mounting

A=Material A=aluminium, S=steel H=AISI 316

050= Diameter

20= internal number

Seals kits

Seals kit P2720 include following parts.

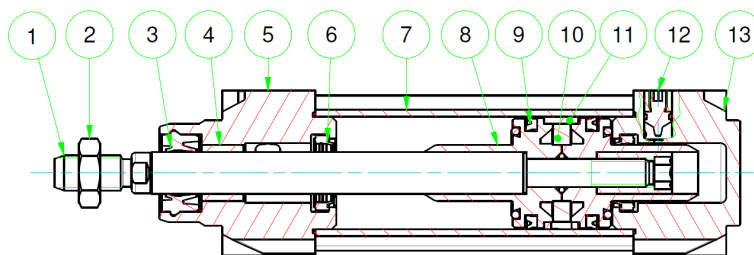
3, 6, 9, 11 and O-rings

P2721 (Seals kit P2720+ 1 piece part no 3)

P2722 2 pcs seals kit P2720

P2723 2 pcs seals kit P2720

P2728 2 pcs seals kit P2720



Seals kits

ø	32	40	50	63	80	100
P2720	P2720-32-TS	P2720-40-TS	P2720-50-TS	P2720-63-TS	P2720-80-TS	P2720-100-TS
P2721	P2721-32-TS	P2721-40-TS	P2721-50-TS	P2721-63-TS	P2721-80-TS	P2721-100-TS
P2723	2xP2720-32-TS	2xP2720-40-TS	2xP2720-50-TS	2xP2720-63-TS	2xP2720-80-TS	2xP2720-100-TS
P2728	1 piece P2720 seals kit and 1 piece P2721 seals kit					
P2722	1 piece P2720 seals kit and 1 piece P2721 seals kit					

ø	125	160	200	250	320
P2720	P2720-125-TS	P2720-160-TS	P2720-200-TS	P2720-250-TS	P2720-320-TS
P2721	P2721-125-TS	P2721-160-TS	P2721-160-TS	P2721-250-TS	P2721-320-TS
P2723	2xP2720-125-TS	2xP2720-160-TS	2xP2720-200-TS	2xP2720-250-TS	2xP2720-320-TS
P2728	1 piece P2720 seals kit and 1 piece P2721 seals kit				
P2722	1 piece P2720 seals kit and 1 piece P2721 seals kit				

Viton seals kits

ø	32	40	50	63	80	100
P2720	P2720V-32-TS	P2720V-40-TS	P2720V-50-TS	P2720V-63-TS	P2720V-80-TS	P2720V-100-TS

ø	125	160	200	250	320
P2720	P2720V-125-TS	P2720V-160-TS	P2720V-200-TS	P2720V-250-TS	P2720V-320-TS



Pimatic Oy | Klaavolantie 1, 32700 Huittinen, Finland

Tel. +358 (0)20 770 9501 | info@pimatic.fi

www.pimatic.fi