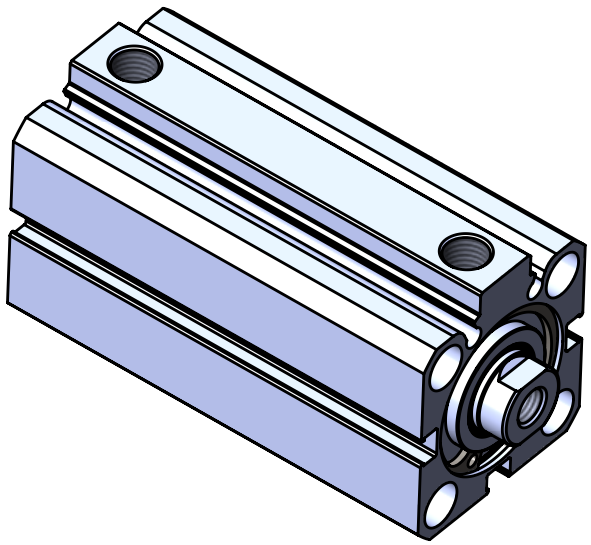
COMPACT
SHORT STROKE CYLINDERS
KS-A SERIES Ø20- Ø100



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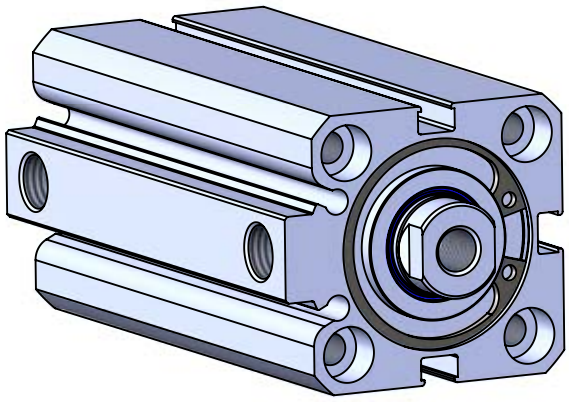


KS-A SERIES

SHORT STROKE CYLINDER
∅20 - ∅100

SHORT STROKE
MAGNETIC CYLINDER

NEED HIGHER POWER IN A TIGHTER SPACE? KS-A IS THE PERFECT CHOICE

MAGNETIC SENSOR | RUNNING FAT-FREE | 420 SS 420 PISTON ROD | ELOXAL PLATED TUBE | ELOXAL PLATED COVER

KS: SHORT STROKE CYLINDERS WITH DOUBLE ACTING

KS-A: SHORT STROKE MAGNETIC CYLINDERS WITH DOUBLE ACTING

Example of order:

KS-A — Product code
032-025 — Cylinder ∅ Stroke
K1 M1 — Variants from Standard System

VARIANTS FROM STANDART SYSTEM:

R1 : Stainless Steel Piston Rod (SS 304-SS 316)
R4 : Stainless Steel Nut for Piston Rod (SS 304)
R5: Piston Rod as CK45 (Hard Chrome Plated)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150ºC (Viton)
K4: Piston Rod Seal Viton

Force:

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
20	10	170	127
25	12	265	227
32	16	482	362
40	16	754	633
50	20	1178	990
63	20	1869	1682
80	25	3014	2721
100	30	4710	4286

Working Fluid:

Filtered and lubricated or filtered and not lubricated air.

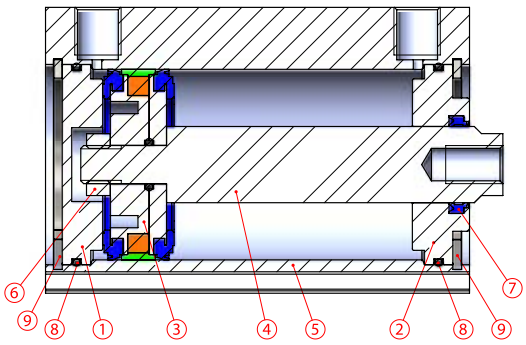
Operating Temperature Range:

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

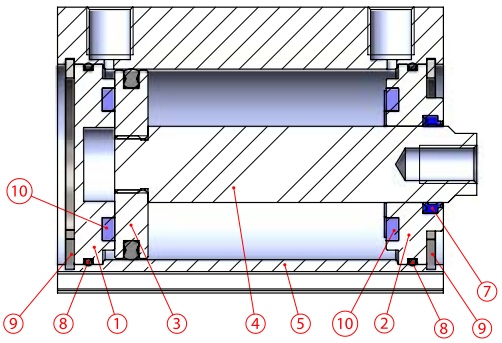
Maximum work pressure:

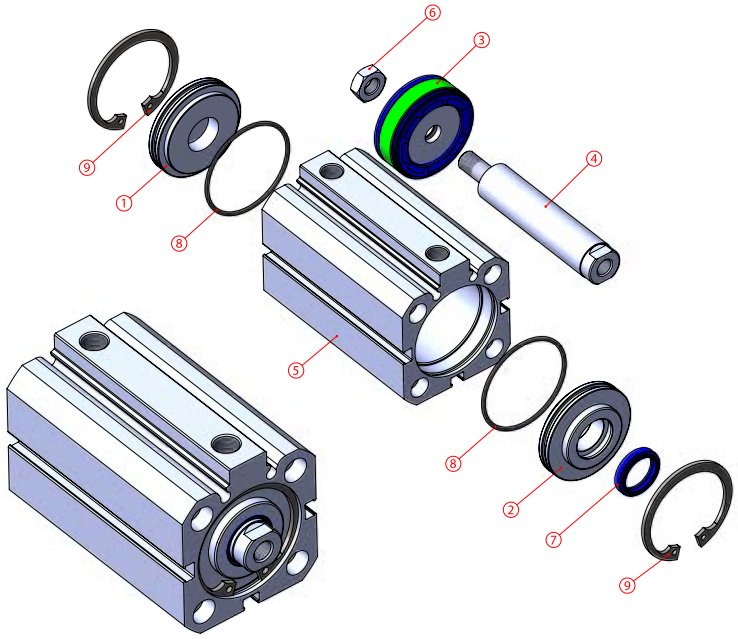
10 Bar

KS-A SERIES
SHORT STROKE MAGNETIC SERIES



KS SERIES
SHORT STROKE NO MAGNETIC SERIES





No	Material name	Characteristic		Pc.
		Magnetic	No Magnetic	
1	Rear Head	Bronze - 6082 Al. Eloxal Plated		1
2	Front Head	Bronze - 6082 Al. Eloxal Plated		1
3	Middle Piston	K58 PU + Al. + Polyacetal	6082 Al. + K62-K63 NBR	1
4	Piston Rod	X20Cr13 Hard Chrome Plated		1
5	Tube	Al Mg Si 0,5 + Eloxal Plated		1
6	Nut	Galvanized Steel		1
7	Rod Seal	PU		1
8	Head O-ring	NBR		2
9	Head Circlip	DIN 472 Steel		2
10	PU Bumper		PU 90	2

Not:

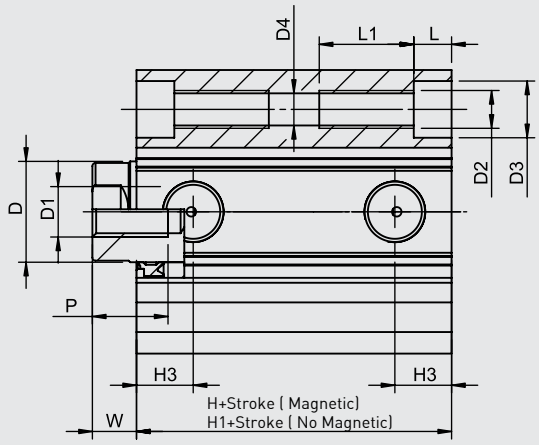
Ø20 - Ø63 Front and Rear Head: Bronze

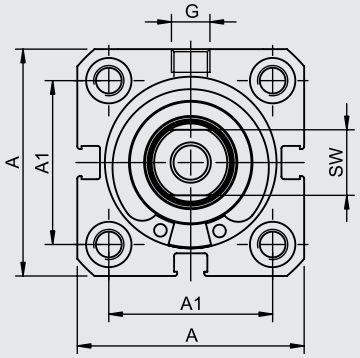
Ø80- Ø100 Front and Rear Head: 6082 Al. + Eloxal Plated

Ø20- Ø25 Magnetic Cylinder Middle Piston: Brass

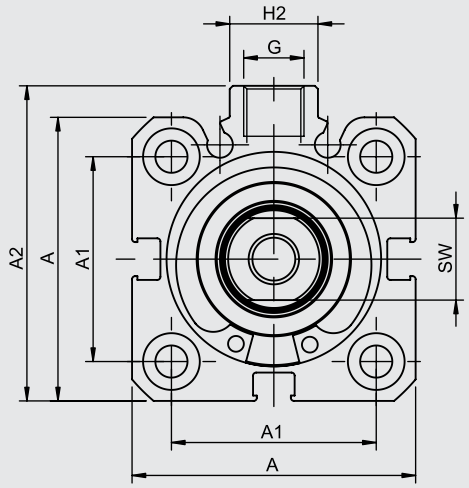
Ø32- Ø100 Magnetic Cylinder Middle Piston: K58

Ø20- Ø100 No Magnetic Cylinder Middle Piston: 6082 Al.+ K62-K63 NBR



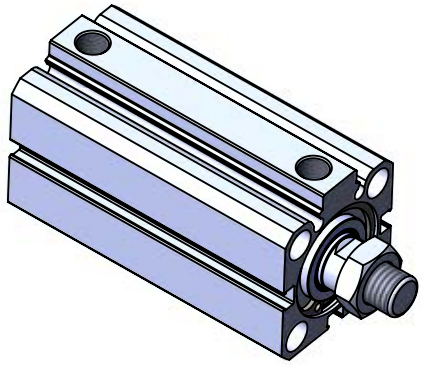


Ø20 - Ø25 CYLINDER

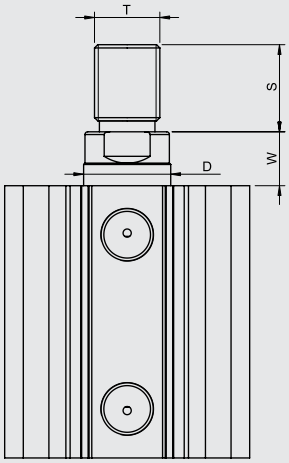


Ø32 - Ø100 CYLINDER

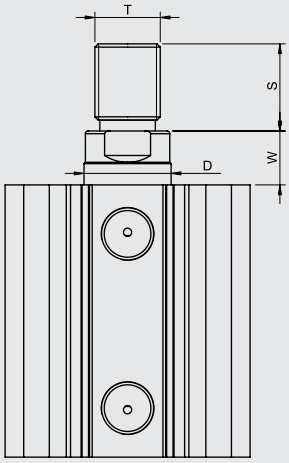
Cylinder Ø mm	A	A1	A2	D Ø	D1 Ø	D2 Ø	D3 Ø	D4 Ø	G	H	H1	H2	H3	L	L1	P	W	SW
20	36	22	-	10	M6	M5	7.5	4.15	M5	32	22	-	7.25	5	10	10	6	9
25	41	26	-	12	M6	M5	7.5	4.15	M5	33	23	-	7.25	5	10	10	6	10
32	45	32.5	50	16	M8	M6	9	5.1	1/8''	33	26	14	9	6	12	12	7	13
40	54	38	60	16	M8	M6	9	5.1	1/8''	39	31	15	11	6	12	12	7	13
50	64.5	46.5	70	20	M10	M8	11	6.7	1/8''	40.5	33	19	11.5	7	16	16	8	17
63	77.5	56.5	83	20	M10	M8	11	6.7	1/8''	46	35	19	12	7	16	16	8	17
80	96.5	72	102	25	M12	M10	13.5	8.6	1/8''	53.5	42	25	13.5	9	16	20	10	22
100	115	89	124	30	M12	M10	13.5	8.6	1/4''	62.5	50	25	15.5	9	16	20	10	27



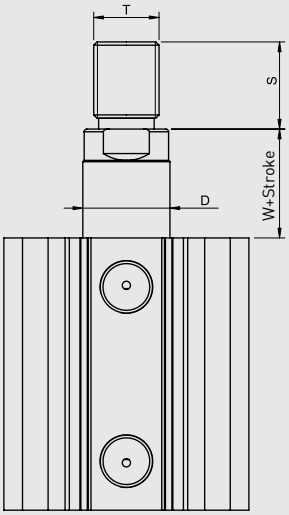
KS-T



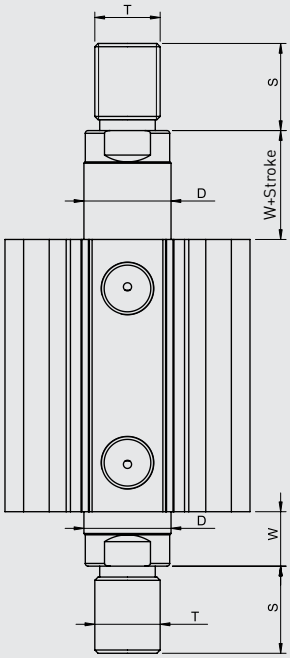
KSF-T



KSE-T

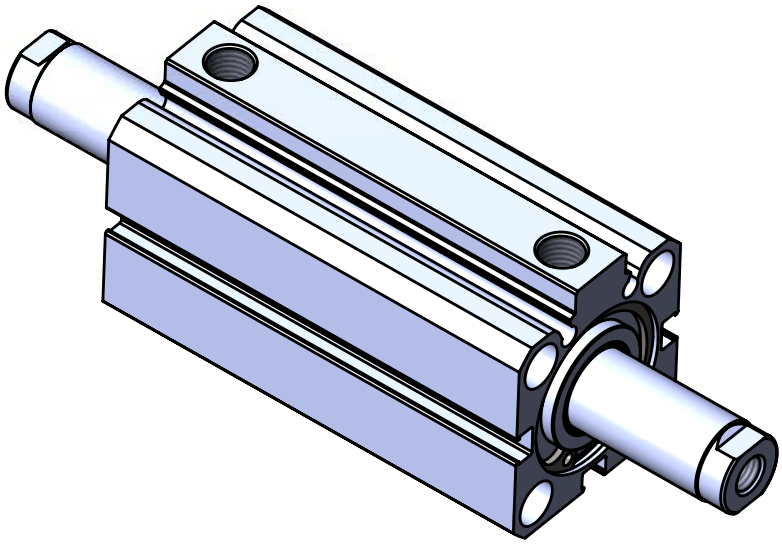


KSD-T



Cylinder type	Cylinder Ø mm	D	S	T	W
KS-KSF KSE-KSD	20	12	12	M8	6
	25	12	14	M10x1.25	6
	32	16	16	M12x1.25	7
	40	16	16	M12x1.25	7
	50	20	22	M16x1.5	8
	63	20	22	M16x1.5	8
	80	25	28	M20x1.5	10
	100	30	28	M20x1.5	10

COMPACT
SHORT STROKE CYLINDERS
KSD-A SERIES Ø20- Ø100



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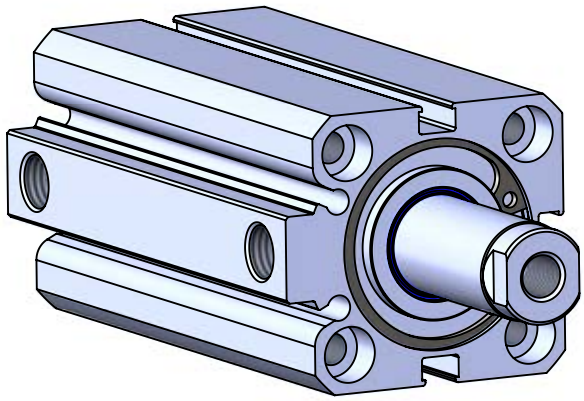


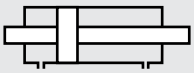
KSD-A SERIES

SHORT STROKE CYLINDER
∅20 - ∅100

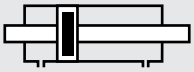
SHORT STROKE
WITH MAGNET AND DOUBLE ROD

POSSIBILITY FOR DOUBLE DIRECTION
RUN WITH IDENTITY STROKES
COMPACT DIMENSION

MAGNETIC SENSOR | RUNNING FAT-FREE | 420 SS 420 PISTON ROD | ELOXAL PLATED TUBE | ELOXAL PLATED COVER



KSD: SHORT STROKE CYLINDERS WITH DOUBLE ACTING WITH DOUBLE ROD



KSD-A: SHORT STROKE MAGNETIC CYLINDERS WITH DOUBLE ACTING WITH DOUBLE ROD

Example of order:

KSD-A | 032-025 | M1-M3

Product code | Cylinder ∅ Stroke | Variants from Standard System

VARIANTS FROM STANDART SYSTEM:

R1 : Stainless Steel Piston Rod (SS 304-SS 316)
R4 : Stainless Steel Nut for Piston Rod (SS 304)
R5: Piston Rod as CK45 (Hard Chrome Plated)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150ºC (Viton)
K4: Piston Rod Seal Viton

Force:

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
20	10	127	127
25	12	227	227
32	16	362	362
40	16	633	633
50	20	990	990
63	20	1682	1682
80	25	2721	2721
100	30	4286	4286

Working Fluid:

Filtered and lubricated or filtered and not lubricated air.

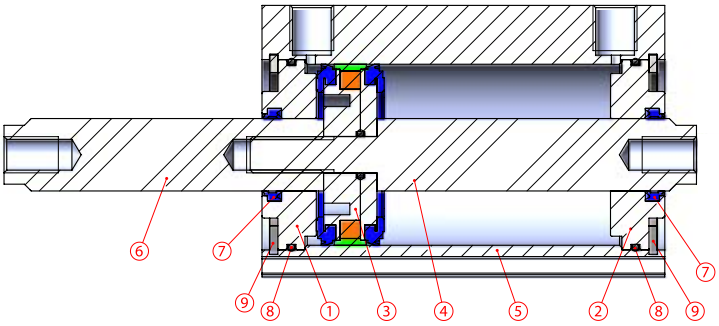
Operating Temperature Range:

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

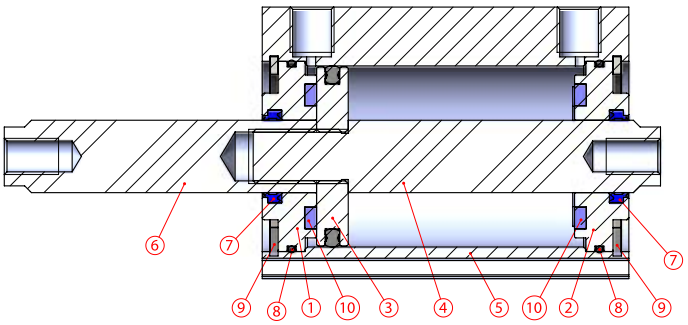
Maximum work pressure:

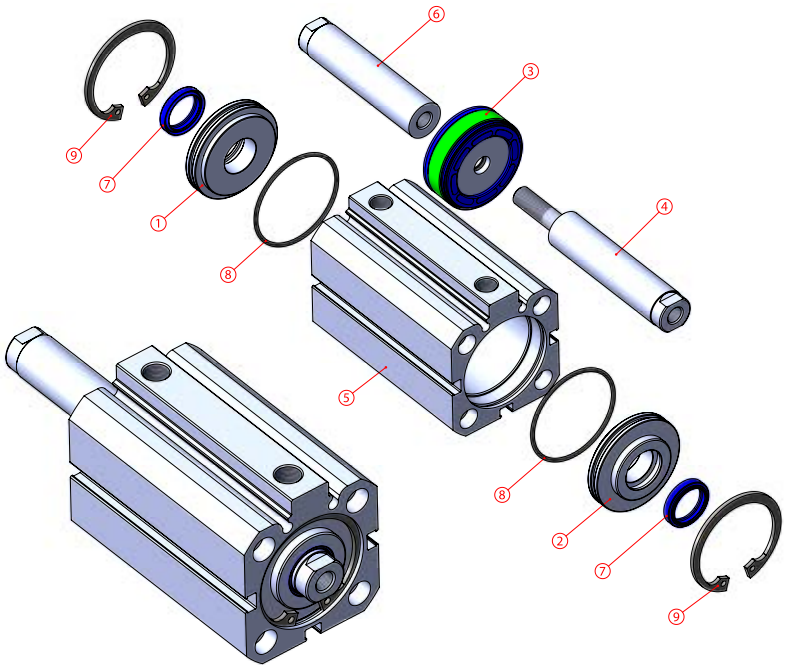
10 Bar

KSD-A SERIES
SHORT STROKE MAGNETIC SERIES



KSD SERIES
SHORT STROKE NO MAGNETIC SERIES

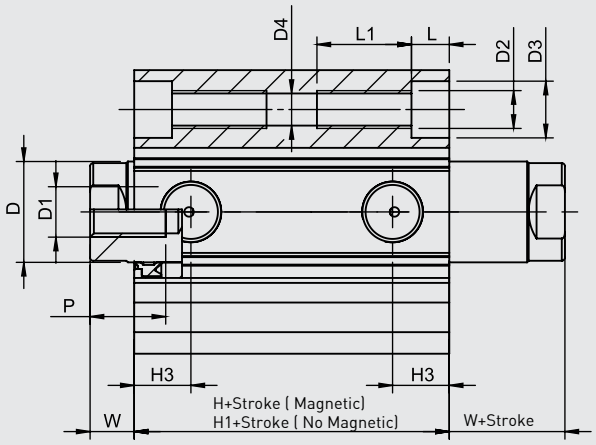


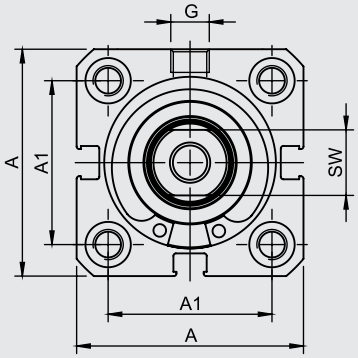


No	Material name	Characteristic		Pc.
		Magnetic	No Magnetic	
1	Head	Bronze - 6082 Al. Eloxal Plated		1
2	Head	Bronze - 6082 Al. Eloxal Plated		1
3	Middle Piston	K58 PU + Al. + Polyacetal	6082 Al. + K62-K63 NBR	1
4	Male Piston Rod	X20Cr13 Hard Chrome Plated		1
5	Tube	Al Mg Si 0,5 + Eloxal Plated		1
6	Female Piston Rod	X20Cr13 Hard Chrome Plated		1
7	Rod Seal	PU		2
8	Head O-ring	NBR		2
9	Head Circlip	DIN 472 Steel		2
10	PU Bumper		PU 90	2

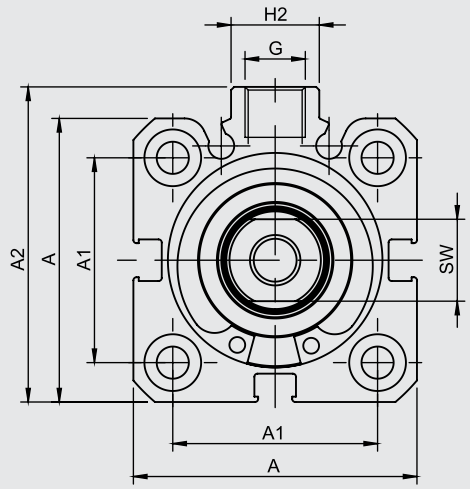
Not:

Ø20 - Ø63	Front and Rear Head: Bronze
Ø80- Ø100	Front and Rear Head: 6082 Al. + Eloxal Plated
Ø20- Ø25	Magnetic Cylinder Middle Piston: Brass
Ø32- Ø100	Magnetic Cylinder Middle Piston: K58
Ø20- Ø100	No Magnetic Cylinder Middle Piston: 6082 Al.+ K62-K63 NBR



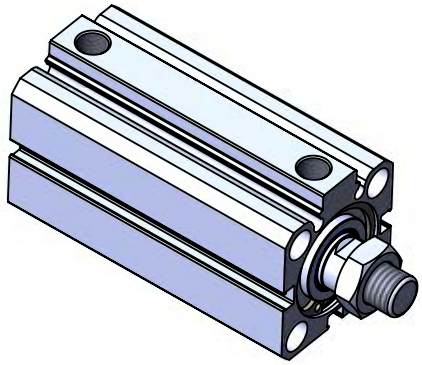


Ø20 - Ø25 CYLINDER

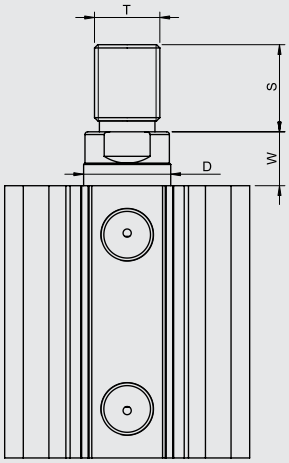


Ø32 - Ø100 CYLINDER

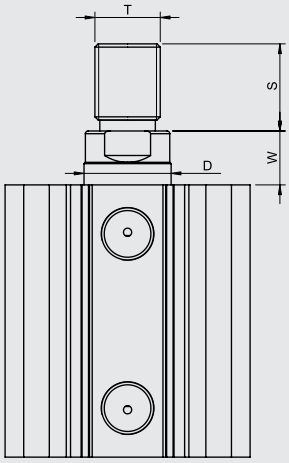
Cylinder Ø mm	A	A1	A2	D Ø	D1 Ø	D2 Ø	D3 Ø	D4 Ø	G	H	H1	H2	H3	L	L1	P	W	SW
20	36	22	-	10	M6	M5	7.5	4.15	M5	32	22	-	7.25	5	10	10	6	9
25	41	26	-	12	M6	M5	7.5	4.15	M5	33	23	-	7.25	5	10	10	6	10
32	45	32.5	50	16	M8	M6	9	5.1	1/8''	33	26	14	9	6	12	12	7	13
40	54	38	60	16	M8	M6	9	5.1	1/8''	39	31	15	11	6	12	12	7	13
50	64.5	46.5	70	20	M10	M8	11	6.7	1/8''	40.5	33	19	11.5	7	16	16	8	17
63	77.5	56.5	83	20	M10	M8	11	6.7	1/8''	46	35	19	12	7	16	16	8	17
80	96.5	72	102	25	M12	M10	13.5	8.6	1/8''	53.5	42	25	13.5	9	16	20	10	22
100	115	89	124	30	M12	M10	13.5	8.6	1/4''	62.5	50	25	15.5	9	16	20	10	27



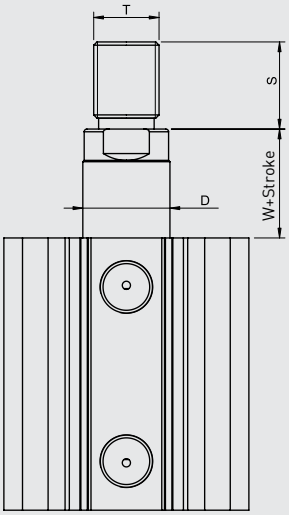
KS-T



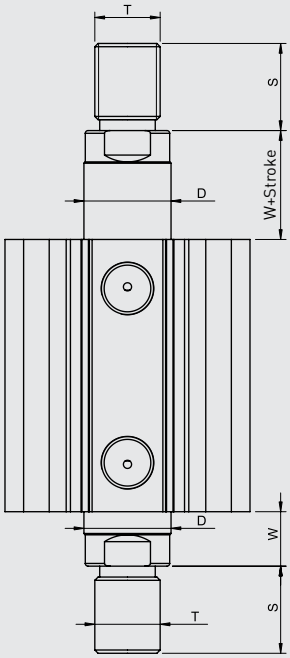
KSF-T



KSE-T

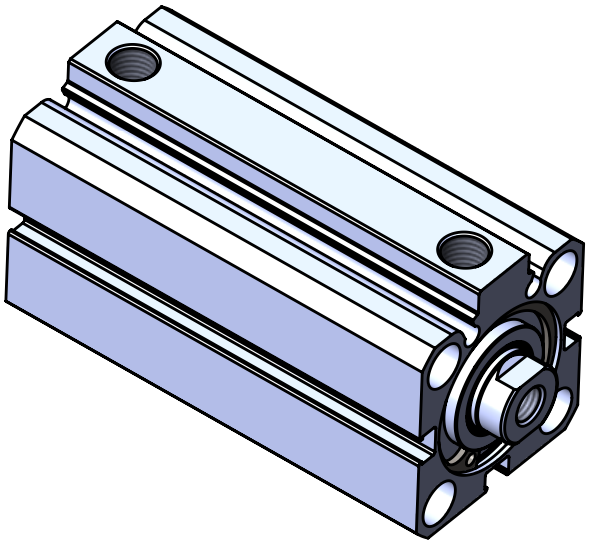


KSD-T



Cylinder type	Cylinder Ø mm	D	S	T	W
KS-KSF KSE-KSD	20	12	12	M8	6
	25	12	14	M10x1.25	6
	32	16	16	M12x1.25	7
	40	16	16	M12x1.25	7
	50	20	22	M16x1.5	8
	63	20	22	M16x1.5	8
	80	25	28	M20x1.5	10
	100	30	28	M20x1.5	10

COMPACT
SHORT STROKE CYLINDERS
KSF-A SERIES Ø20- Ø100



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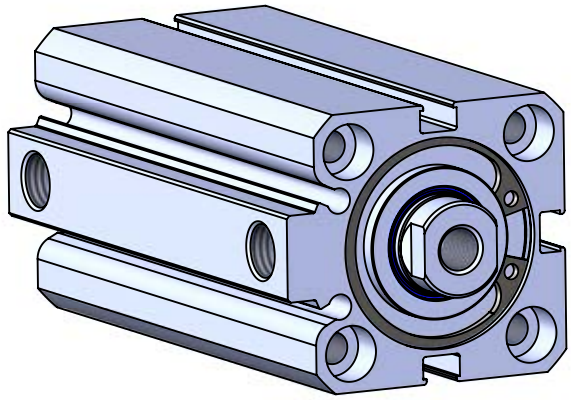


KSF -A SERIES

SHORT STROKE CYLINDER
∅20 - ∅100

SHORT STROKE
WITH MAGNET AND FRONT SPRING

WITH SINGLE ACTING USAGE PROVIDES MINIMUM AIR CONSUMPTION AND EQUIPMENT COST

MAGNETIC SENSOR | RUNNING FAT-FREE | 420 SS 420 PISTON ROD | ELOXAL PLATED TUBE | ELOXAL PLATED COVER

KSF: SHORT STROKE CYLINDERS WITH SINGLE ACTING (SPRINGED FROM FRONT)

KSF-A: SHORT STROKE MAGNETIC CYLINDERS WITH SINGLE ACTING (SPRINGED FROM FRONT)

Example of order:

KSF-A | 032-025 | M1

Product code | Cylinder ∅ Stroke | Variants from Standard System

VARIANTS FROM STANDART SYSTEM:

R1 : Stainless Steel Piston Rod (SS 304-SS 316)
R4 : Stainless Steel Nut for Piston Rod (SS 304)
R5: Piston Rod as CK45 (Hard Chrome Plated)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150ºC (Viton)
K4: Piston Rod Seal Viton

Force:

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
20	10	145	9
25	12	270	13
32	16	397	16
40	16	654	23
50	20	1052	30
63	20	1732	35
80	25	2792	60
100	30	4386	100

Working Fluid:

Filtered and lubricated or filtered and not lubricated air.

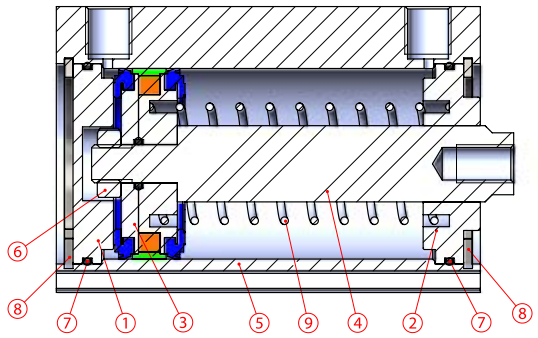
Operating Temperature Range:

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

Maximum work pressure:

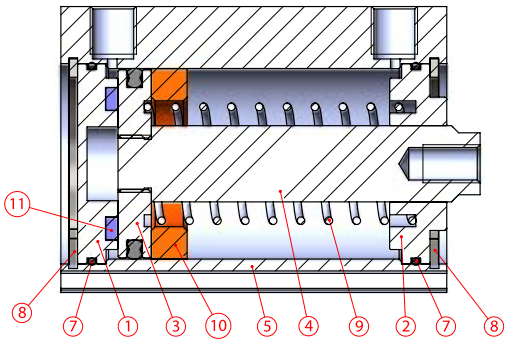
10 Bar

KSF-A SERIES
SHORT STROKE MAGNETIC SERIES

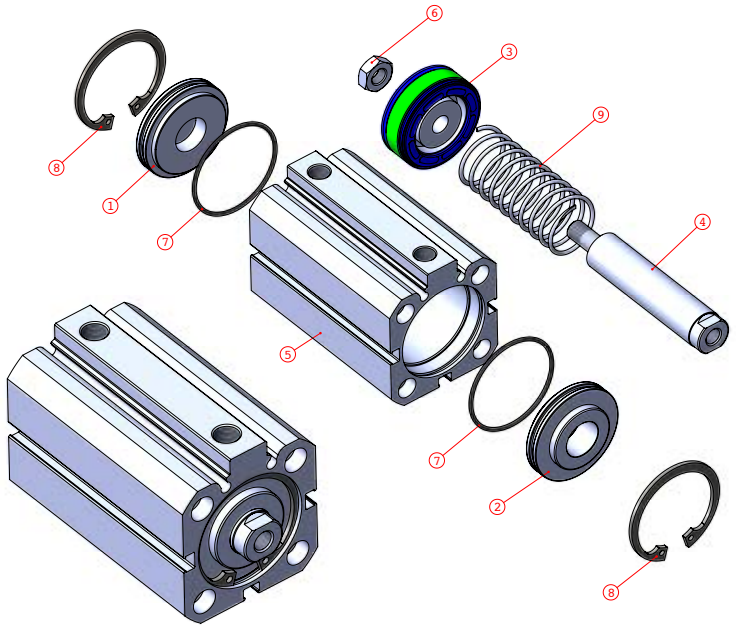


Stroke: Max. 50mm

KSF SERIES
SHORT STROKE NO MAGNETIC SERIES



Stroke: Max. 50mm



No	Material name	Characteristic		Pc.
		Magnetic	No Magnetic	
1	Rear Head	Bronze - 6082 Al. Eloxal Plated		1
2	Front Head	Bronze - 6082 Al. Eloxal Plated		1
3	Middle Piston	K58 PU + Al. + Polyacetal	6082 Al. + K62-K63 NBR	1
4	Piston Rod	X20Cr13 Hard Chrome Plated		1
5	Tube	Al Mg Si 0,5 + Eloxal Plated		1
6	Nut	Galvanized Steel		1
7	Head O-ring	NBR		2
8	Head Circlip	DIN 472 Steel		2
9	Spring	Galvanized Steel		1
10	POM			1
11	PU Bumper		PU 90	1

Not:

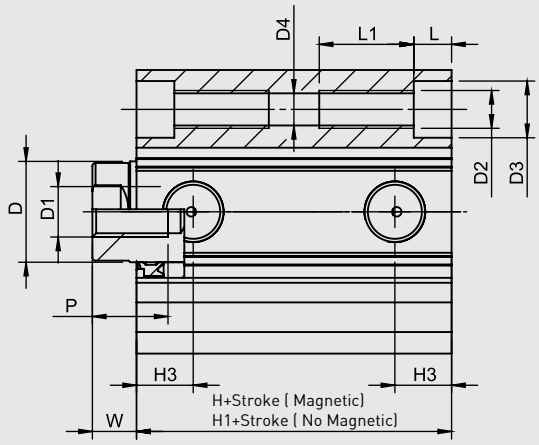
Ø20 - Ø63 Front and Rear Head: Bronze

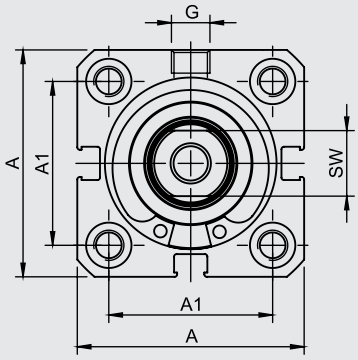
Ø80- Ø100 Front and Rear Head: 6082 Al. + Eloxal Plated

Ø20- Ø25 Magnetic Cylinder Middle Piston: Brass

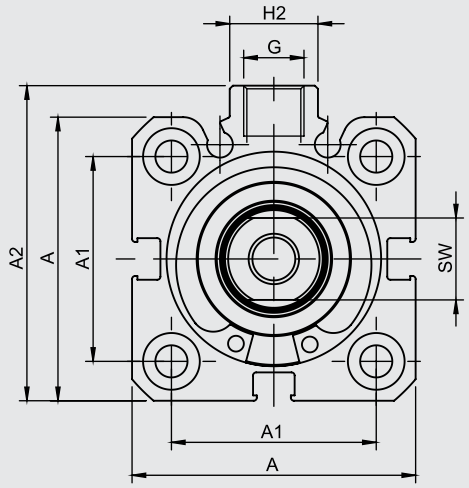
Ø32- Ø100 Magnetic Cylinder Middle Piston: K58

Ø20- Ø100 No Magnetic Cylinder Middle Piston: 6082 Al.+ K62-K63 NBR



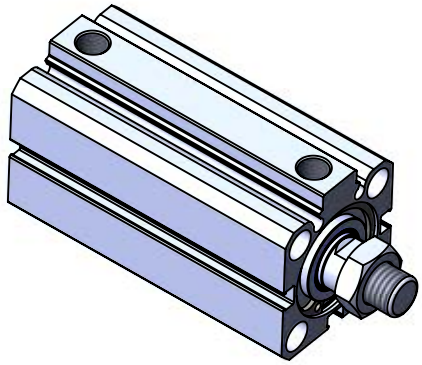


Ø20 - Ø25 CYLINDER

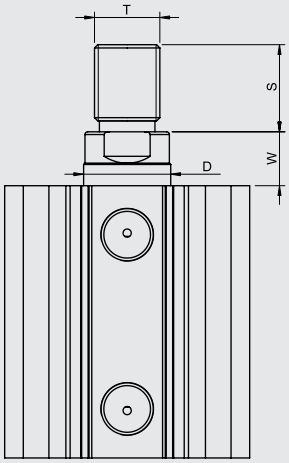


Ø32 - Ø100 CYLINDER

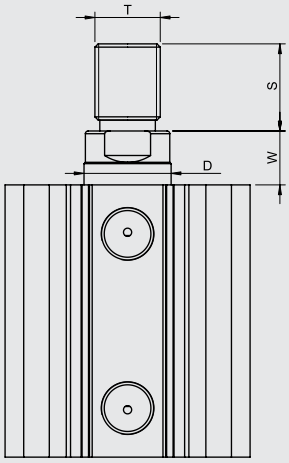
Cylinder Ø mm	A	A1	A2	D Ø	D1 Ø	D2 Ø	D3 Ø	D4 Ø	G	H	H1	H2	H3	L	L1	P	W	SW
20	36	22	-	10	M6	M5	7.5	4.15	M5	32	26	-	7.25	5	10	10	6	9
25	41	26	-	12	M6	M5	7.5	4.15	M5	33	27,5	-	7.25	5	10	10	6	10
32	45	32.5	50	16	M8	M6	9	5.1	1/8''	33	33	14	9	6	12	12	7	13
40	54	38	60	16	M8	M6	9	5.1	1/8''	39	38,5	15	11	6	12	12	7	13
50	64.5	46.5	70	20	M10	M8	11	6.7	1/8''	40.5	40	19	11.5	7	16	16	8	17
63	77.5	56.5	83	20	M10	M8	11	6.7	1/8''	46	41,5	19	12	7	16	16	8	17
80	96.5	72	102	25	M12	M10	13.5	8.6	1/8''	53.5	52,5	25	13.5	9	16	20	10	22
100	115	89	124	30	M12	M10	13.5	8.6	1/4''	62.5	61,5	25	15.5	9	16	20	10	27



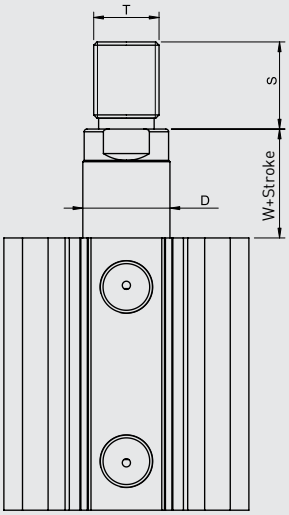
KS-T



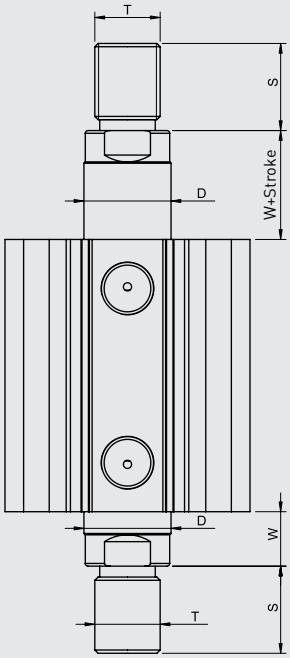
KSF-T



KSE-T

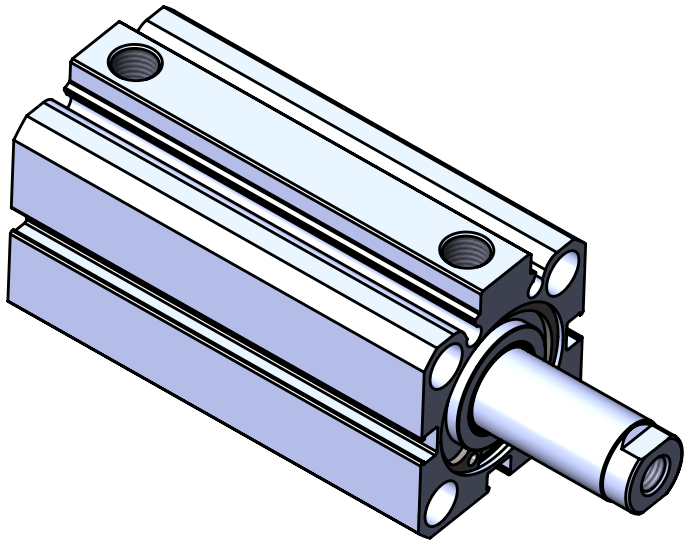


KSD-T



Cylinder type	Cylinder Ø mm	D	S	T	W
KS-KSF KSE-KSD	20	12	12	M8	6
	25	12	14	M10x1.25	6
	32	16	16	M12x1.25	7
	40	16	16	M12x1.25	7
	50	20	22	M16x1.5	8
	63	20	22	M16x1.5	8
	80	25	28	M20x1.5	10
	100	30	28	M20x1.5	10

COMPACT
SHORT STROKE CYLINDERS
KSE-A SERIES Ø20- Ø100



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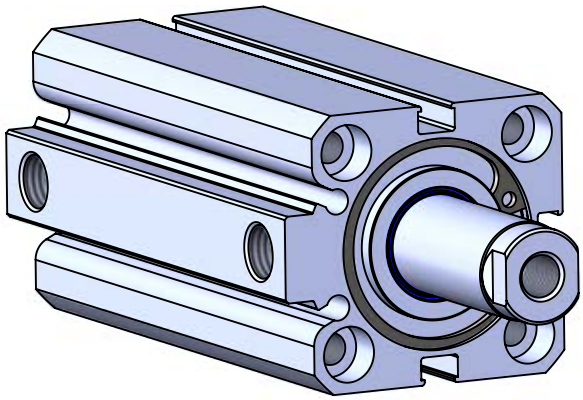


KSE-A SERIES
SHORT STROKE CYLINDER
∅20 - ∅100

SHORT STROKE
WITH MAGNET AND REAR SPRING

WITH SINGLE ACTING USAGE PROVIDES MINIMUM AIR CONSUMPTION AND EQUIPMENT COST

MAGNETIC SENSOR | RUNNING FAT-FREE | 420 SS 420 PISTON ROD | ELOXAL PLATED TUBE | ELOXAL PLATED COVER

KSE: SHORT STROKE CYLINDERS WITH SINGLE ACTING (SPRINGED FROM BACK)

KSE-A: SHORT STROKE MAGNETIC CYLINDERS WITH SINGLE ACTING (SPRINGED FROM BACK)

Example of order:

KSE-A (Product code) | 032-025 (Cylinder ∅ Stroke) | M3 (Variants from Standard System)

VARIANTS FROM STANDART SYSTEM:

R1 : Stainless Steel Piston Rod (SS 304-SS 316)
R4 : Stainless Steel Nut for Piston Rod (SS 304)
R5: Piston Rod as CK45 (Hard Chrome Plated)
M1: Extended male Piston Rod Thread
M3: Special Piston Rod Thread
M4: Extended Piston Rod
K1: Seals for Max. 150ºC (Viton)
K4: Piston Rod Seal Viton

Force:

Cylinder Ø mm	Rod Ø mm	Thrust and traction forces (6 Bar)	
		Thrust force (N)	Traction force (N)
20	10	9	118
25	12	13	214
32	16	16	331
40	16	23	588
50	20	30	934
63	20	35	1614
80	25	60	2607
100	30	100	4097

Working Fluid:

Filtered and lubricated or filtered and not lubricated air.

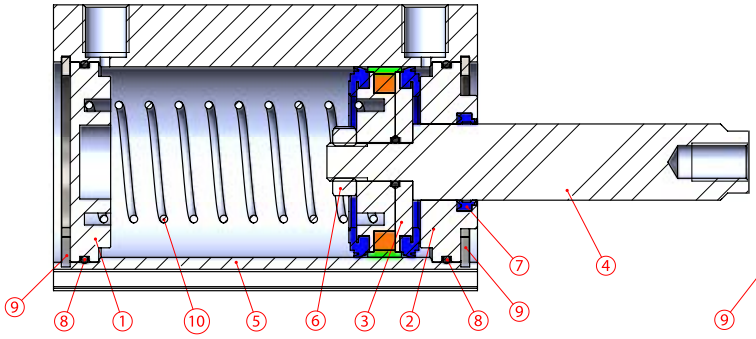
Operating Temperature Range:

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

Maximum work pressure:

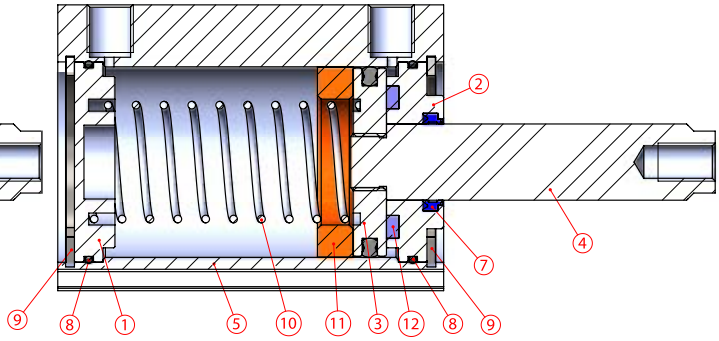
10 Bar

KSE-A SERIES
SHORT STROKE MAGNETIC SERIES

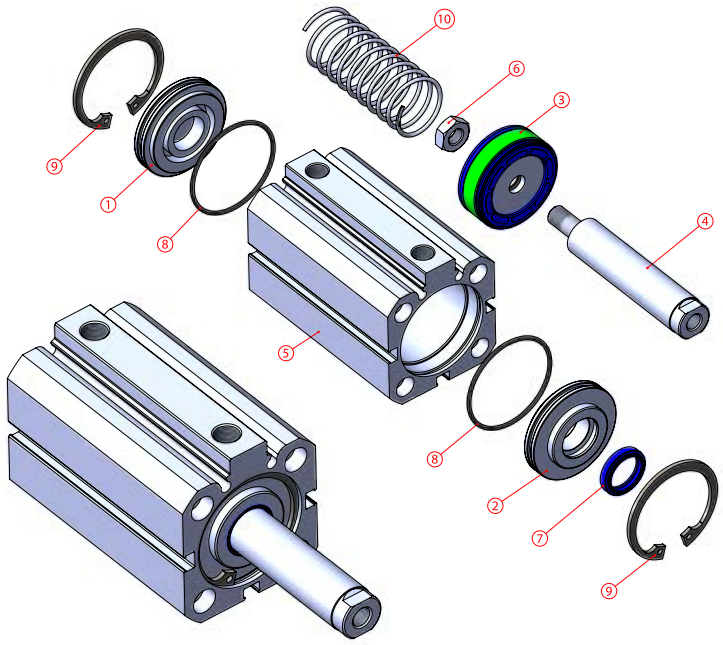


Stroke: Max. 25mm

KSE SERIES
SHORT STROKE NO MAGNETIC SERIES



Stroke: Max. 25mm



No	Material name	Characteristic		Pc.
		Magnetic	No Magnetic	
1	Rear Head	Bronze - 6082 Al. Eloxal Plated		1
2	Front Head	Bronze - 6082 Al. Eloxal Plated		1
3	Middle Piston	K58 PU + Al. + Polyacetal	6082 Al. + K62-K63 NBR	1
4	Piston Rod	X20Cr13 Hard Chrome Plated		1
5	Tube	Al Mg Si 0,5 + Eloxal Plated		1
6	Nut	Galvanized Steel		1
7	Rod Seal	PU		1
8	Head O-ring	NBR		2
9	Head Circlip	DIN 472 Steel		2
10	Spring	Galvanized Steel		1
11	POM			1
12	PU Bumper		PU 90	1

Not:

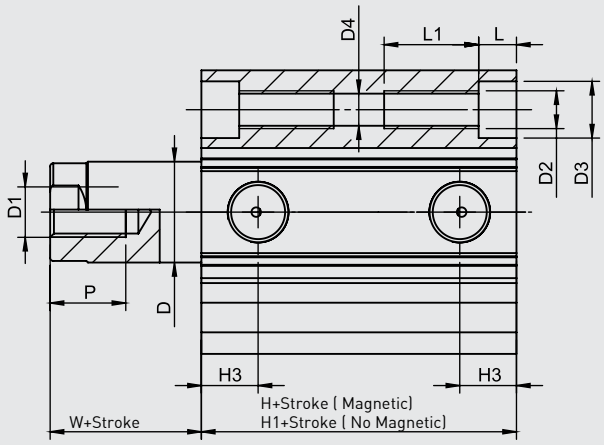
Ø20 - Ø63 Front and Rear Head: Bronze

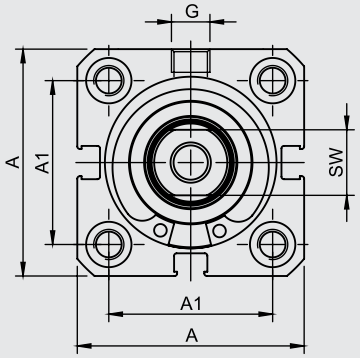
Ø80- Ø100 Front and Rear Head: 6082 Al. + Eloxal Plated

Ø20- Ø25 Magnetic Cylinder Middle Piston: Brass

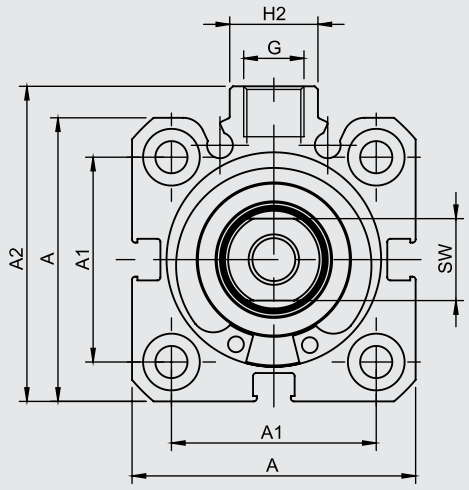
Ø32- Ø100 Magnetic Cylinder Middle Piston: K58

Ø20- Ø100 No Magnetic Cylinder Middle Piston: 6082 Al.+ K62-K63 NBR



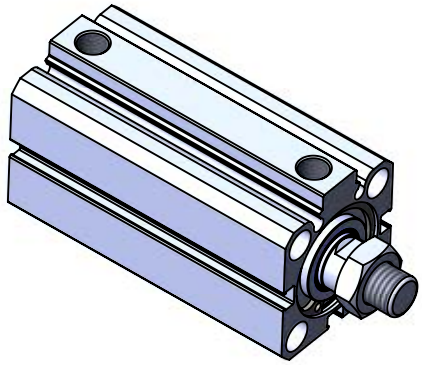


Ø20 - Ø25 CYLINDER

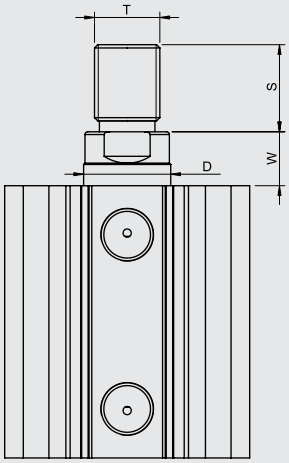


Ø32 - Ø100 CYLINDER

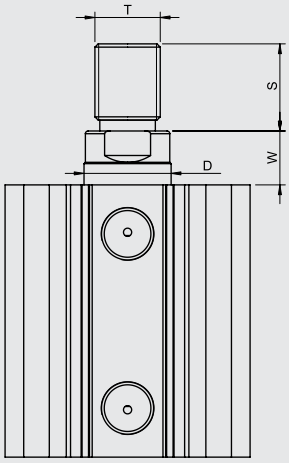
Cylinder Ø mm	A	A1	A2	D Ø	D1 Ø	D2 Ø	D3 Ø	D4 Ø	G	H	H1	H2	H3	L	L1	P	W	SW
20	36	22	-	10	M6	M5	7.5	4.15	M5	32	26	-	7.25	5	10	10	6	9
25	41	26	-	12	M6	M5	7.5	4.15	M5	33	27,5	-	7.25	5	10	10	6	10
32	45	32.5	50	16	M8	M6	9	5.1	1/8''	33	33	14	9	6	12	12	7	13
40	54	38	60	16	M8	M6	9	5.1	1/8''	39	38,5	15	11	6	12	12	7	13
50	64.5	46.5	70	20	M10	M8	11	6.7	1/8''	40.5	40	19	11.5	7	16	16	8	17
63	77.5	56.5	83	20	M10	M8	11	6.7	1/8''	46	41,5	19	12	7	16	16	8	17
80	96.5	72	102	25	M12	M10	13.5	8.6	1/8''	53.5	52,5	25	13.5	9	16	20	10	22
100	115	89	124	30	M12	M10	13.5	8.6	1/4''	62.5	61,5	25	15.5	9	16	20	10	27



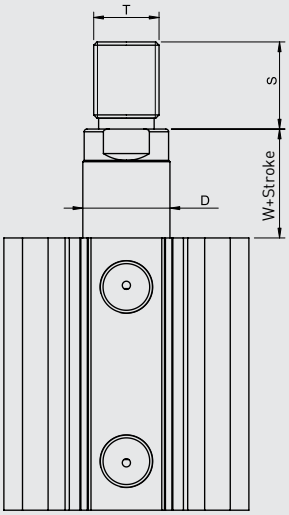
KS-T



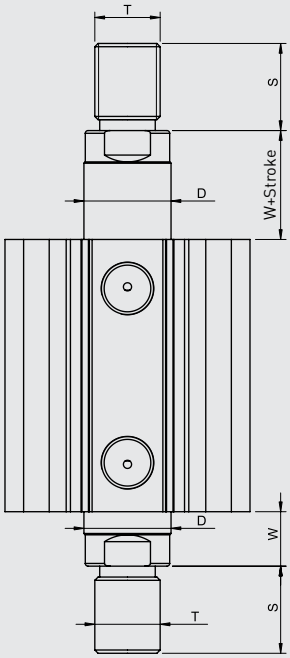
KSF-T



KSE-T



KSD-T



Cylinder type	Cylinder Ø mm	D	S	T	W
KS-KSF KSE-KSD	20	12	12	M8	6
	25	12	14	M10x1.25	6
	32	16	16	M12x1.25	7
	40	16	16	M12x1.25	7
	50	20	22	M16x1.5	8
	63	20	22	M16x1.5	8
	80	25	28	M20x1.5	10
	100	30	28	M20x1.5	10