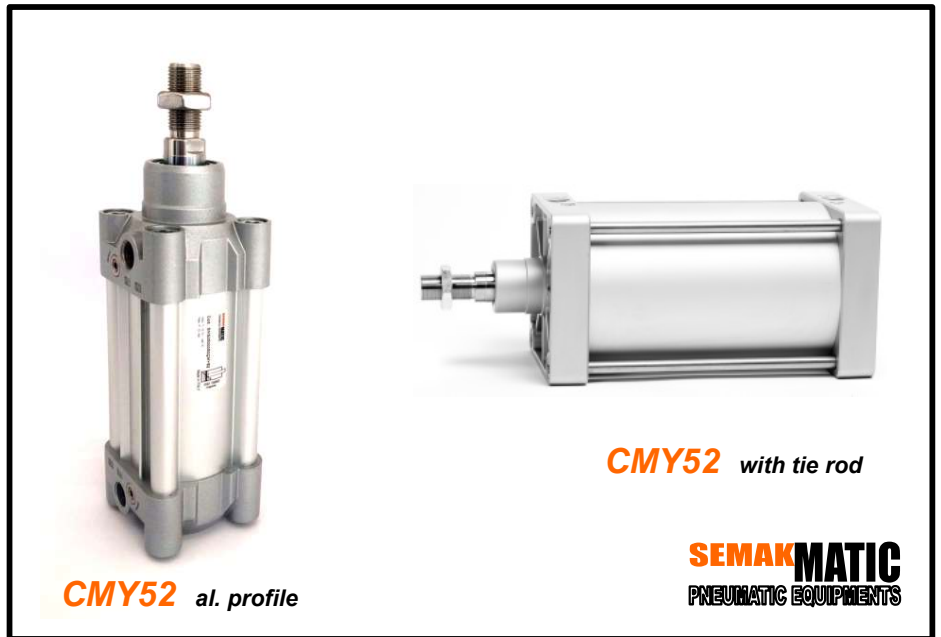




ISO 15552 CYLINDERS

SERIE **CMY52**

www.sematik.tr

SEMAK**MATIC**
PNEUMATIC EQUIPMENTS

ISO 15552 CYLINDERS

AL. PROFILE SERIE

TIE ROD SERIE

SEAL KITS & HEAD KITS



Standart serie with al. profile

The new **CMY52** series of SEMAKMATIC iso 15552 cylinders has a shining Profile and a very light weight durable caps with **stainles steel 303** piston rod . It has four different versions and all has magnetic ring , also precise adjustable cushioning system. Through rod , tandem and two stroke series are highly suitable for automation applications.

New style barrel which has two grooves on the same side , can be used standart serie of sensors without bracket .

Additionally the new tie rod serie is also very light and durable . For sensor applications bracket is necessary.



Standart serie with tie rod

ORDERING CODES

ordering code for standart serie	: SMS ... / CMY52
ordering code for through rod serie	: SM1 ... / CMY52
ordering code for tandem serie	: SM2 ... / CMY52
ordering code for two stroke serie	: SM3 ... / / CMY52
Diameters with al. Profile	: Ø32 .40 .50 .63 .80.100.125 mm
Diameters with tie rod	: Ø160 . 200 . 250 . 320 mm
Strokes	: from 10 to 2000 mm
ordering code for 2 wire sensor	: SMSS5V0230ACDC0
ordering code for 3 wire PNP sensor	: SMSS5V030PNPDC0
bracket for tie rod serie	: SMSSKELEPÇE0001
VITON SEAL ...	Please indicate " ... CMY5V " instead of " ... CMY52 "

Fluid : Compressed filtered air with or without lubrication

If lubrication used at ones must be continious .

Pressure range : max. 10 bar

Temperature range : - 10 °C / + 50 °C (for viton seal serie + 150 °C)

Version : Magnetic , Cushioned ,Double acting

Materials

Covers : Painted die cast aluminium

Barrel : Anodized aluminium

Seals : Polyuretane

Bush : Sintered Bronze

Piston Rod : chrome plated steel C45

Screws and tie rods : Steel

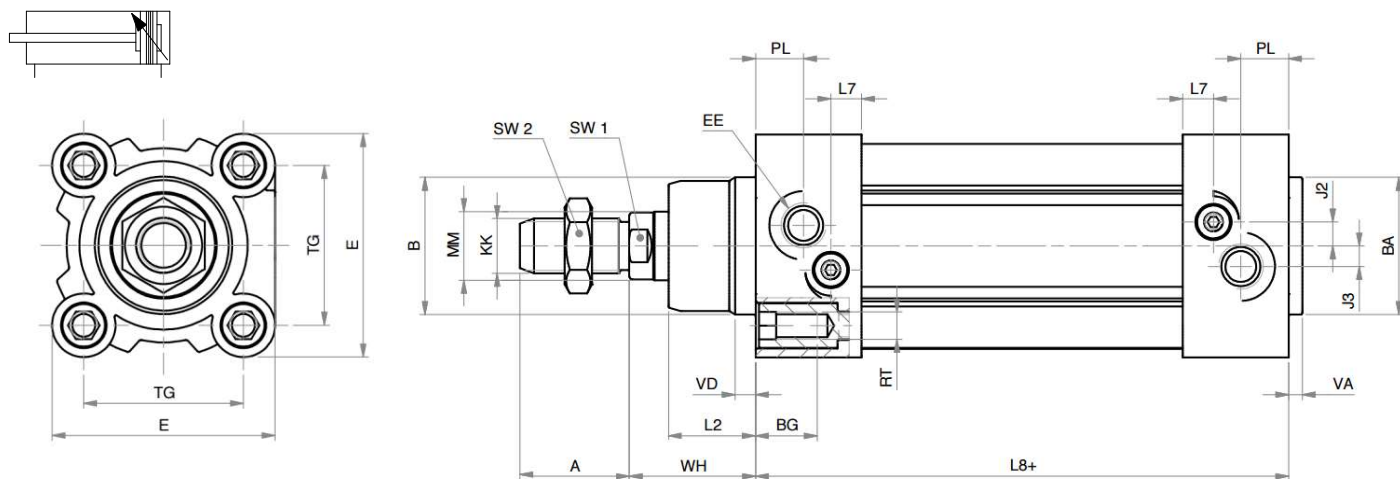
Available series : 1) standard serie 2) through rod serie
3) tandem serie 4) two stroke serie

Standart strokes : from 10 - 2000 mm

ISO 15552 CYLINDERS

ISO 15552 Cylinders standart (SMS . . . / CMY52)

MAGNETIC , CUSHIONED , DOUBLE ACTING



Ø	I	Ø B	α	D
32	32,5	10	46°	42,5
40	38	10	51°	48
50	46,5	13	54°	59,5
63	56,5	13	61°	69,5
80	72	14	65°	86
100	89	16,5	68°	105,5
125	110	17	70°	131

STANDART STROKES

25 , 50 , 80 , 100 , 125 , 160 , 200 , 250 , 320 , 400 , 500 mm

MAX. STROKE 2.000 mm .

DIMENSIONS



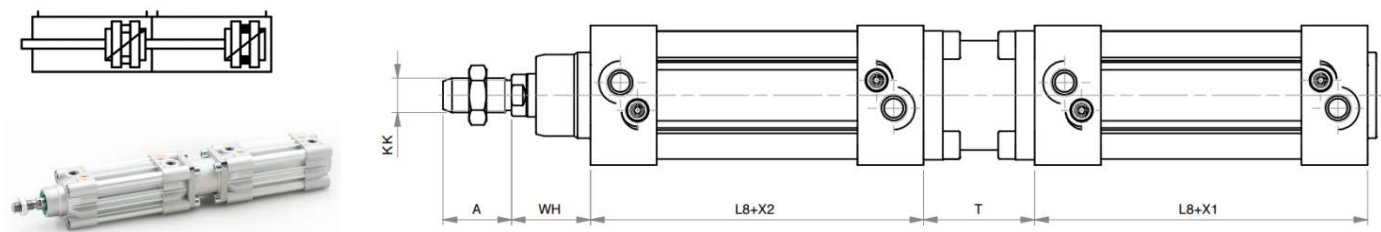
Ø	032	040	050	063	080	100	125
A	22	24	32	32	40	40	54
TG	32,5	38	46,5	56,5	72	89	110
Ø B	30	35	40	45	45	55	60
Ø BA	30	35	40	45	45	55	60
BG	16	16	16	16	17	17	20
E	47	54,5	65	75	93	110	134
EE	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G1/2"
J2	5,7	7,3	7	8	8	12	10
J3	5,3	5	6	7,5	7	7	7
VD	5	5	6	6	7	7	10
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2
L2	18	22	25,5	26	32	38	46
L7	7	9,2	9	8	10,5	10	11
L8+	94	105	106	121	128	138	160
Ø MM	12	16	20	20	25	25	32
PL	13	14	14	16	16	18	18
RT	M6	M6	M8	M8	M10	M10	M12
SW 1	10	13	17	17	22	22	27
SW 2	17	19	24	24	30	30	41
*	20	22	25	25	35	35	35
VA	4	4	4	4	4	4	6
WH	26	30	37	37	46	51	65

+ = stroke length

* = cushioning length

Note: rod nut included in the supply

ISO 15552 Cylinders tandem (SM2 ... / ... CMY52)

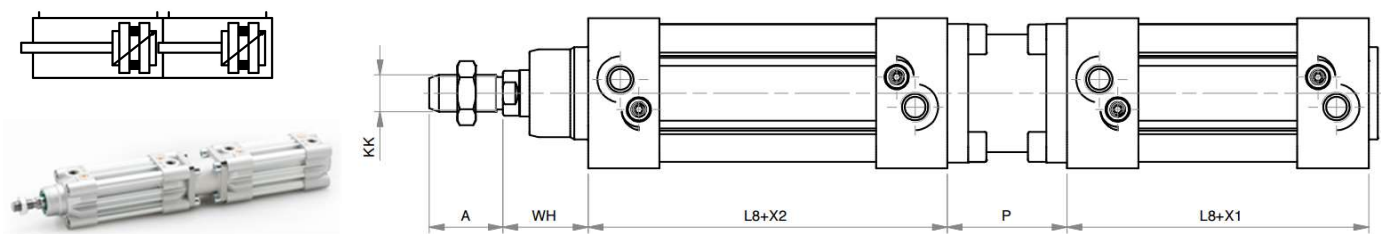


DIMENSIONS

Ø	032	040	050	063	080	100	125
A	22	24	32	32	40	40	54
AF	12	12	16	16	20	20	32
KF	M6	M8	M8	M10	M10	M12	M16
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2
L8	94	105	106	121	128	138	160
T	39	45	52	53	65	77	93
WH	26	30	37	37	46	51	65
X1	I° STROKE						
X2	II° STROKE						
*	20	22	25	25	35	35	35

* = cushioning length

ISO 15552 Cylinders two stroke (SM3 ... / ... / ... CMY52)



DIMENSIONS

Ø	032	040	050	063	080	100	125
A	22	24	32	32	40	40	54
AF	12	12	16	16	20	20	32
KF	M6	M8	M8	M10	M10	M12	M16
KK	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2
L8	94	105	106	121	128	138	160
T	39	45	52	53	65	77	93
WH	26	30	37	37	46	51	65
X1	I° STROKE						
X2	II° STROKE						
*	20	22	25	25	35	35	35

* = cushioning length

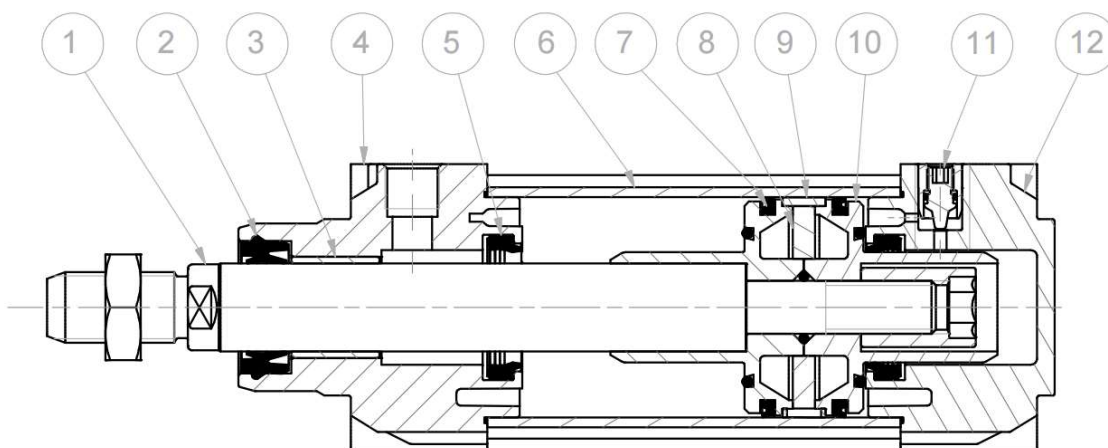
STANDART STROKES for SM2 – SM3

25 , 50 , 80 , 100 , 125 , 160 , 200 mm

MAX. STROKE 500 mm .

ISO 15552 Cylinders standart (SMS ... / CMY52)

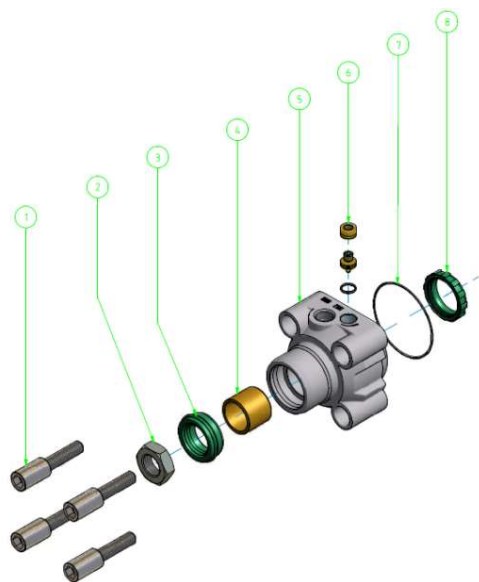
internal part summary



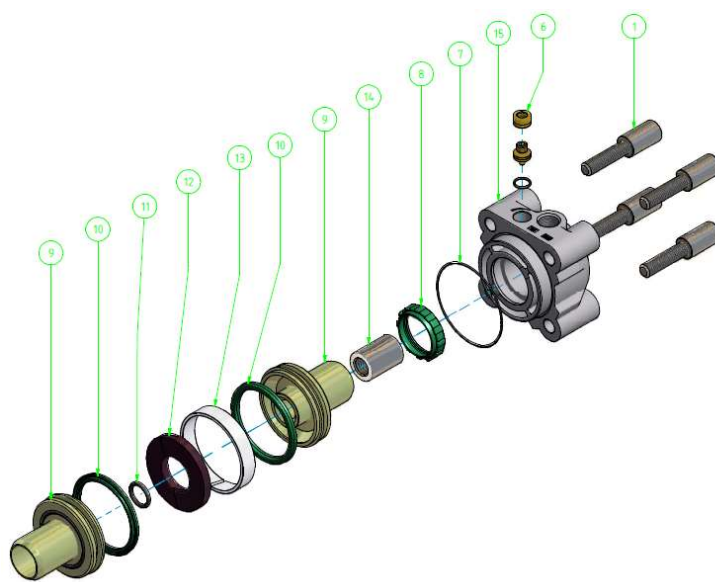
- | | |
|--|---|
| 1. PISTON ROD .. 303 stainless steel | 7. PISTON SEALS .. Polyuretane (on request VITON) |
| 2. ROD SEAL .. Polyuretane (on request viton) | 8. MAGNET |
| 3. BUSHING .. Self – lubricating sintered bronze | 9. MAGNET BANT .. Technopolimer |
| 4. HEADS .. Die cast painted aluminium | 10. PISTON |
| 5. BUMPER SEAL .. Polyuretane | 11. BUMPER SEAL .. Polyuretano |
| 6. TUBE .. Anodized aluminium | 12. COVER .. Die cast painted aluminium |

ISO 15552 Cylinders standart (SMS ... / CMY52)

internal part detailed



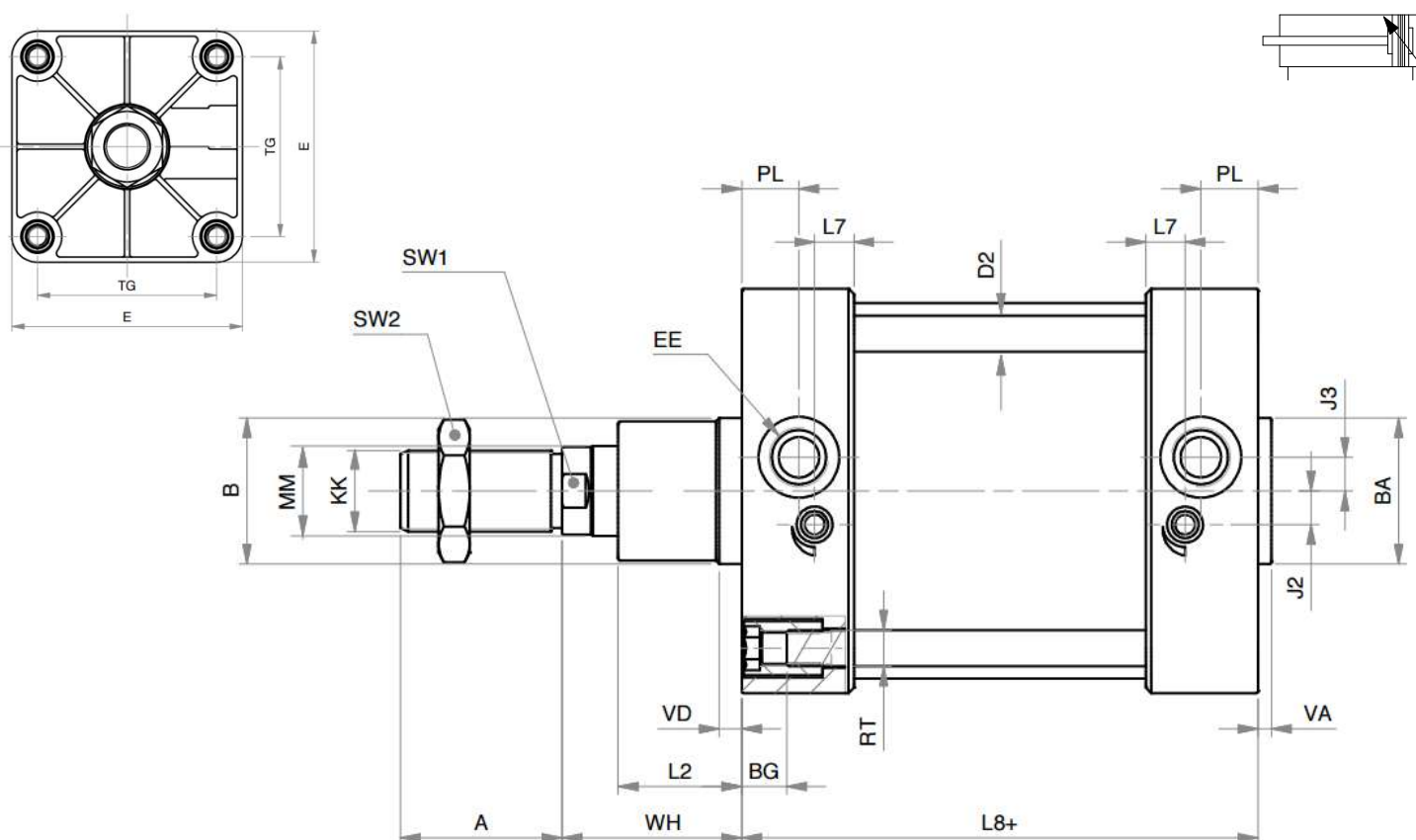
1. Cover screws
2. Rod nut
3. Rod seal
4. Bronze bushing
5. Piston cover
6. Bumper adjusting screw
7. Cover o-ring
8. Bumper seal



9. Piston body
10. Piston seal
11. O – ring
12. Magnet band
13. Piston seal
14. Piston nut (back side)
15. Back cover

ISO 15552 CYLINDERS

ISO 15552 Cylinders standart with tie rod (SMS ... / ... CMY52)



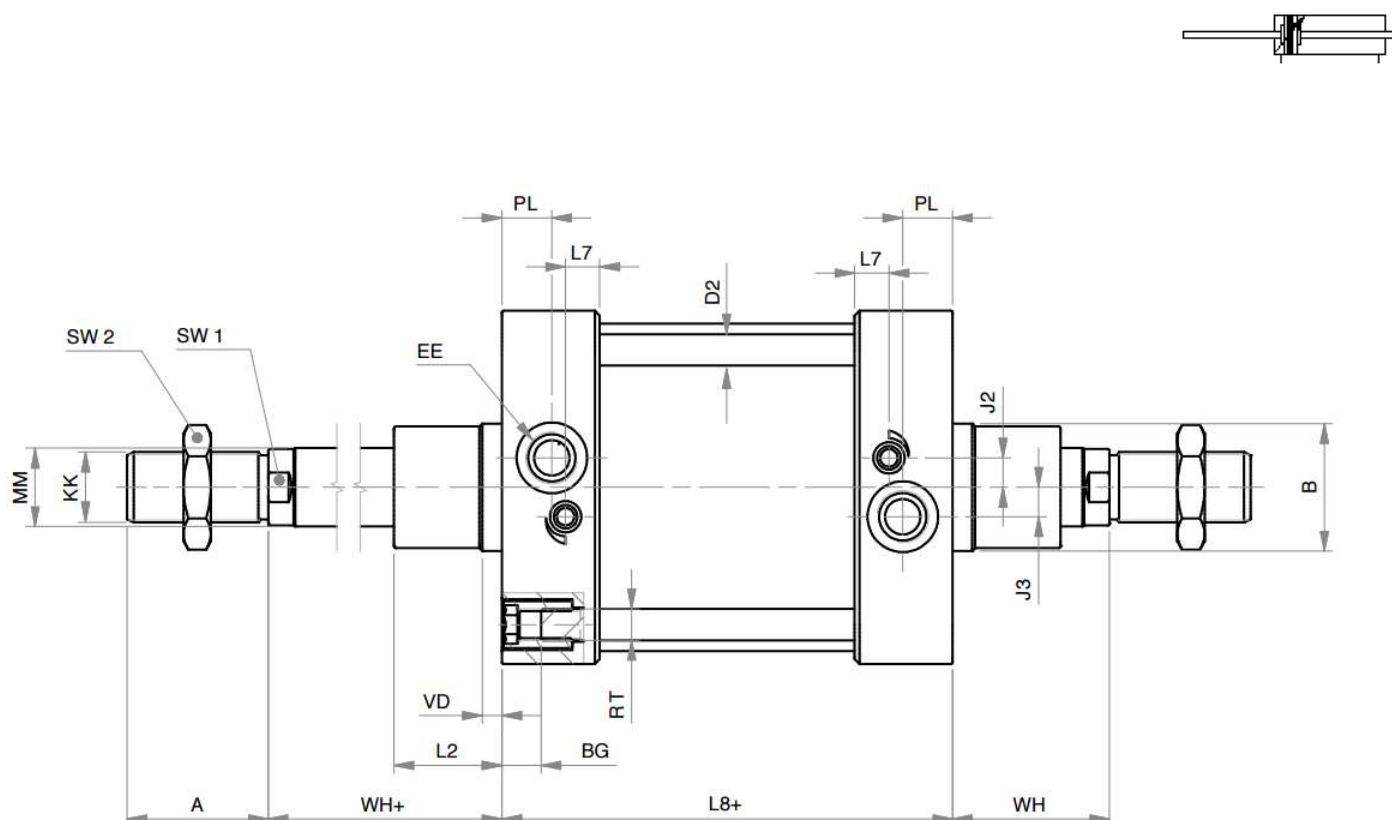
DIMENSIONS

Ø	160	200	250	320
A	72	72	84	96
KK	M36x2	M36x2	M42x2	M48x2
ø B	65	75	90	110
ø BA	65	75	90	110
BG	24	24	25	28
ø D2	16	16	20	25
E	180	220	270	350
EE	G3/4"	G3/4"	G1"	G1"
J2	15	15	25	35
J3	15	15	25	35
L2	55	65	75	90
L7	17,5	16	20	20
L8+	180	180	200	220
ø MM	40	40	50	63
PL	25,5	25,5	30	30
RT	M16	M16	M20	M24
SW 1	36	36	46	55
SW 2	55	55	65	75
TG	140	175	220	270
VA	6	8	8	10
VD	10	25	25	25
WH	80	95	105	120
*	45	45	45	45

+ = stroke length

* = cushioning length

ISO 15552 Cylinders standart with tie rod (SM1 . . . / . . . CMY52)



DIMENSIONS

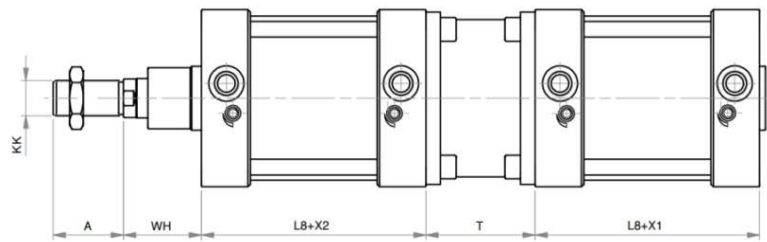
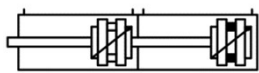
Ø	160	200	250	320
A	72	72	84	96
KK	M36x2	M36x2	M42x2	M48x2
ø B	65	75	90	110
ø BA	65	75	90	110
BG	24	24	25	28
ø D2	16	16	20	25
E	180	220	270	350
EE	G3/4"	G3/4"	G1"	G1"
J2	15	15	25	35
J3	15	15	25	35
L2	55	65	75	90
L7	17,5	16	20	20
L8+	180	180	200	220
ø MM	40	40	50	63
PL	25,5	25,5	30	30
RT	M16	M16	M20	M24
SW 1	36	36	46	55
SW 2	55	55	65	75
TG	140	175	220	270
VA	6	8	8	10
VD	10	25	25	25
WH	80	95	105	120
*	45	45	45	45

+ = stroke length

* = cushioning length

ISO 15552 CYLINDERS

ISO 15552 Cylinders tandem (SM2 ... / ... CMY52)

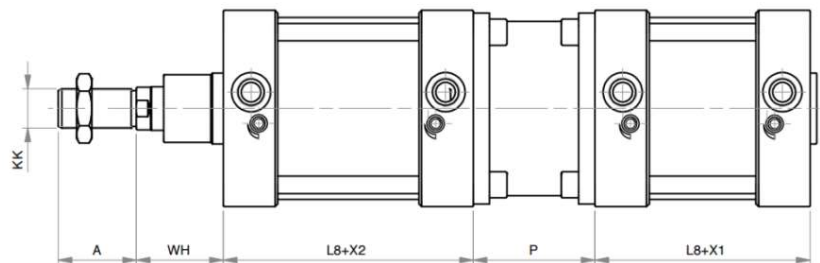
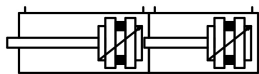


DIMENSIONS

Ø	160	200	250	320
A	72	72	84	96
AF	30	30	40	50
T	122	132	152	182
KF	M20	M20	M24	M28
KK	M36x2	M36x2	M42x2	M48x2
L8	180	180	200	220
X1	I°CORSA - I° STROKE			
X2	II°CORSA - II° STROKE			
WH	80	95	105	120
*	45	45	45	45

* = cushioning length

ISO 15552 Cylinders two stroke (SM3 ... / ... / ... CMY52)



DIMENSIONS

Ø	160	200	250	320
A	72	72	84	96
AF	30	30	40	50
T	122	132	152	182
KF	M20	M20	M24	M28
KK	M36x2	M36x2	M42x2	M48x2
L8	180	180	200	220
X1	I°CORSA - I° STROKE			
X2	II°CORSA - II° STROKE			
WH	80	95	105	120
*	45	45	45	45

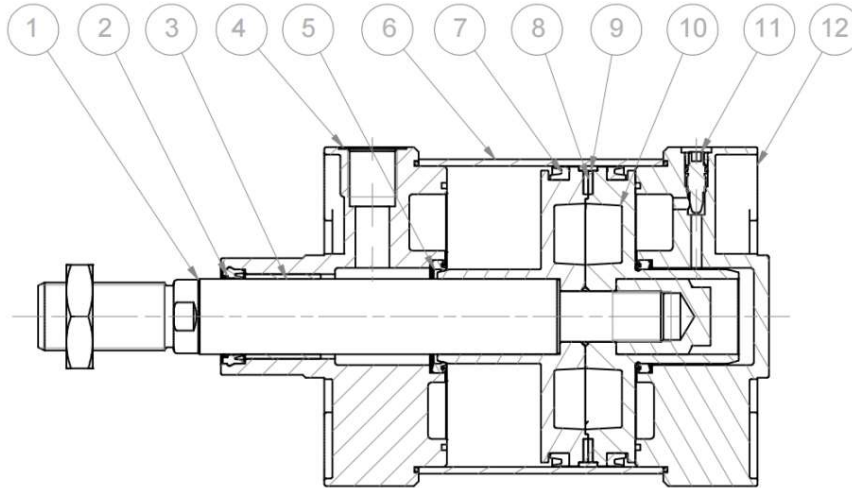
* = cushioning length

STANDART STROKES for SM2 – SM3

25 , 50 , 80 , 100 , 125 , 160 , 200 mm

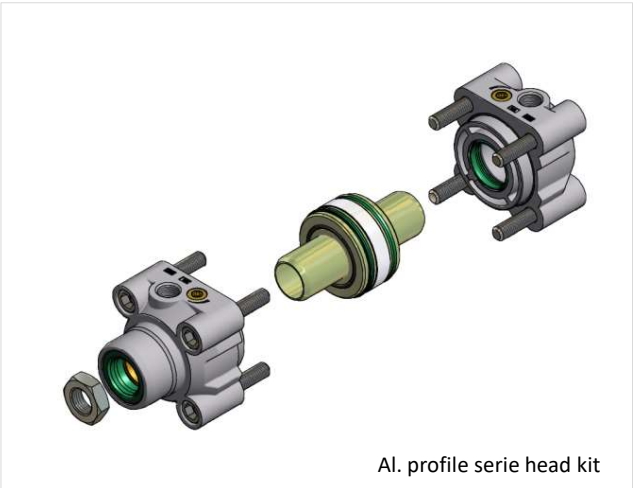
MAX. STROKE 500 mm .

ISO 15552 Cylinders standart with tie rod (SMS . . . / CMY52)



- 1. ROD .. C45 Chromed steel
- 2. ROD SEAL .. Polyurethane
- 3. BUSHING .. Sintered Bronze
- 4. COVER .. Painted die cast aluminium
- 5. BUMPER SEAL .. Polyurethane
- 6. PROFILE .. Anodized aluminium

- 7. PISTON SEAL .. Polyuretane
- 8. MAGNET .. Rubber
- 9. MAGNET BAND .. Ptfе
- 10. PISTON .. Die cast aluminium painted
- 11 . BUMPER SCREW .. Nickel plated steel
- 12. COVER .. Painted die cast aluminium



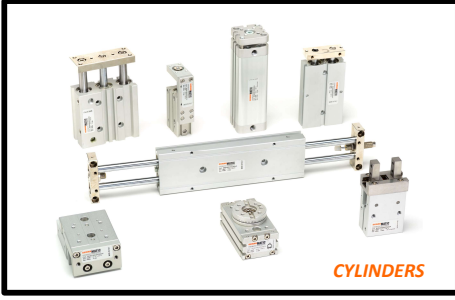
SEMAKMATIC serie of iso 15552 cylinder kits are supplied without a barrel , rod and tie rods .
All the seals , caps and screws are available in the head kit set .

In the seal kit set there are only standart seals .
In the VITON seal kit set there are only standart viton seals .

ORDERING CODES

Ordering code for head kit	: SMS . . . TT52
Diameters with al. Profile	: Ø32 .40 .50 .63 .80.100.125 mm
Diameters with tie rod	: Ø160 . 200 . 250 . 320 mm
Ordering code for seal kit	: SMS . . . TT152
Ordering code for seal kit (viton)	: SMS . . . TV152

Caps	: Painted die cast aluminium
Seals	: Polyuretane on request Viton (max. 150 °C)
Screws	: Steel
Piston	: Aluminium
Magnet	: Elastic ring
Version	: Magnetic - cushioned
Rod nut	: Excluded
Tie rods and nut	: Excluded
Barrel and rod	: Excluded for tie rod and standart serie



CYLINDERS



VALVES



FRL



SEMAK MATIC
PNEUMATIC EQUIPMENTS



FITTINGS



VACUUM



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