KM Gas springs SUSPENSIONS

ΚΑΤΑΛΟΓΟΣ ΑΝΤΑΛΛΑΚΤΙΚΩΝ

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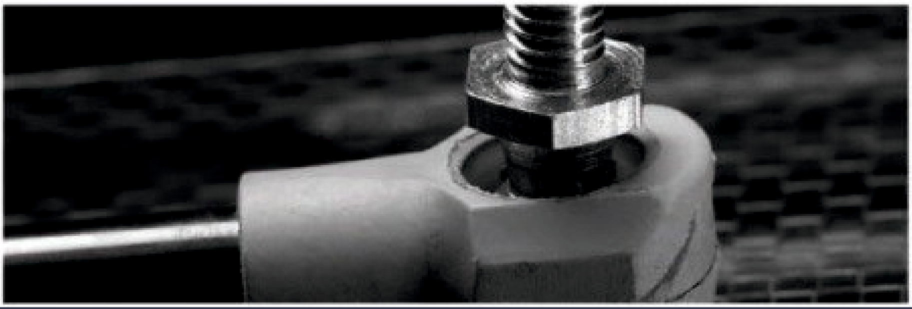
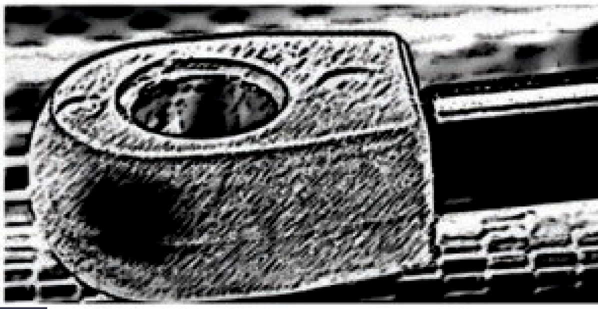
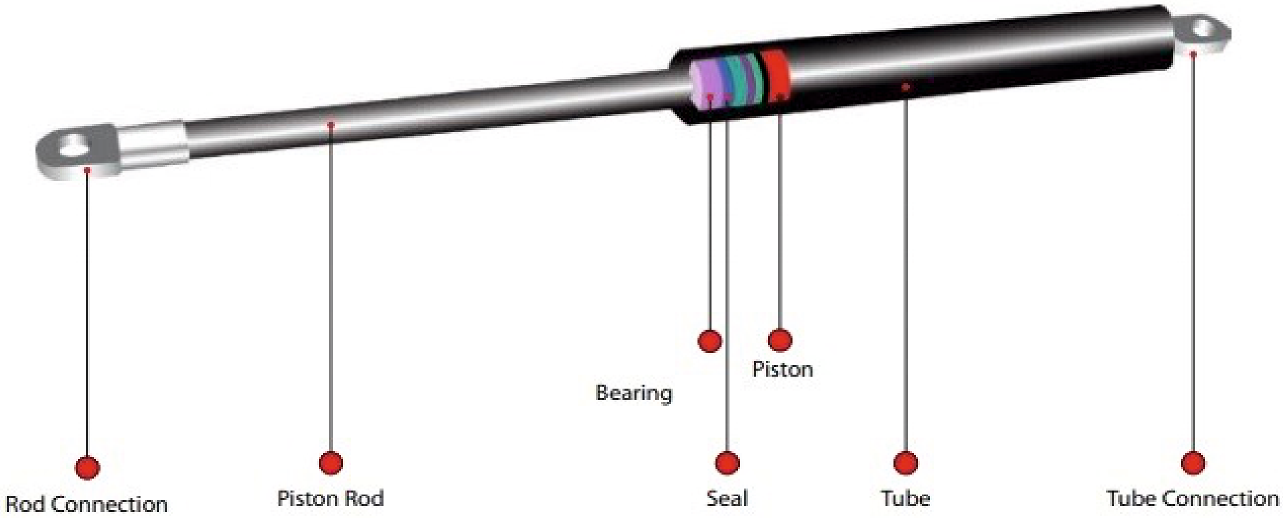




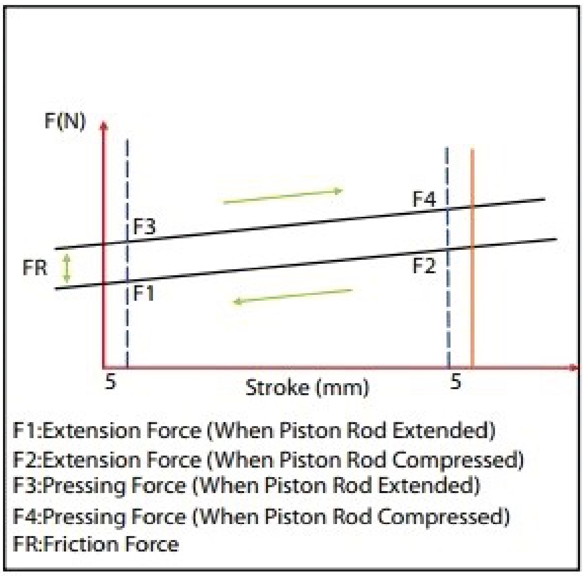
1.1 TECHNICAL INSTRUCTIONS OF GAS SPRINGS

KM Gas springs SUSPENSIONS

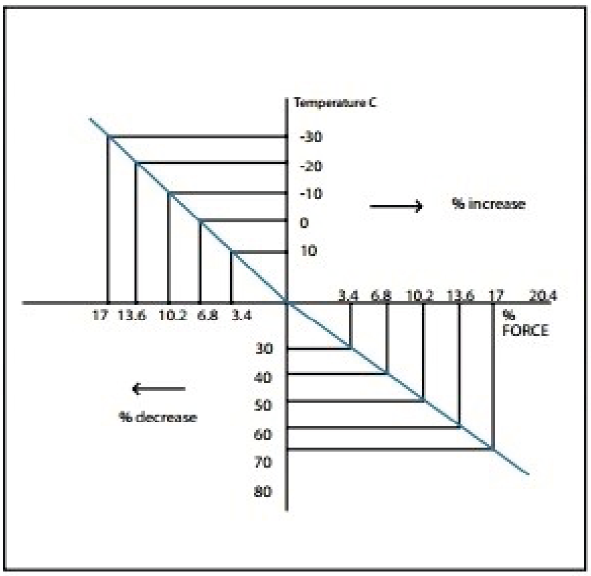


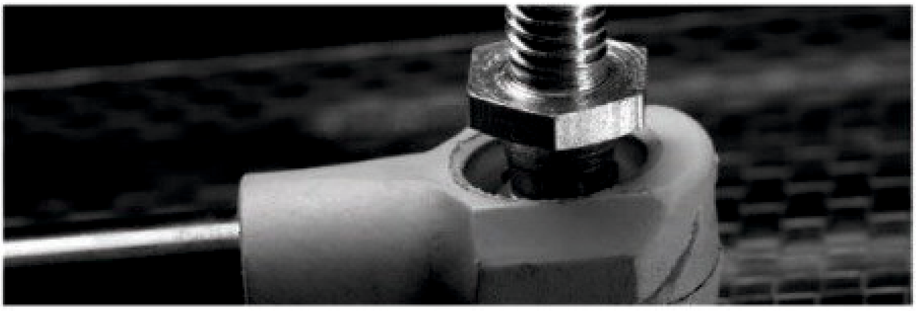
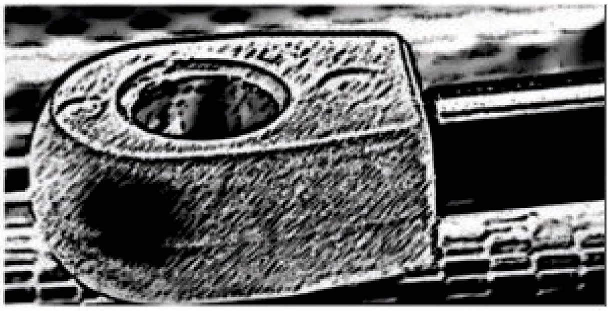
TECHNICAL SPECIFICATIONS OF NEWTONE GAS SPRINGS	
CYLINDER COATING FILM THICKNESS	40+/-10 (micron)
PISTON ROD SURFACE SMOOTHNESS	Max 0.10 Ra
PISTON ROD SURFACE HARDNESS	Min 450 Hv
NITRATION DEEPNESS	25-30 (micron)
TUS TEST	Min 300 (hour)
PERFOMANCE TEST	Min 10 km stroke

FORCE-STROKE DIAGRAM



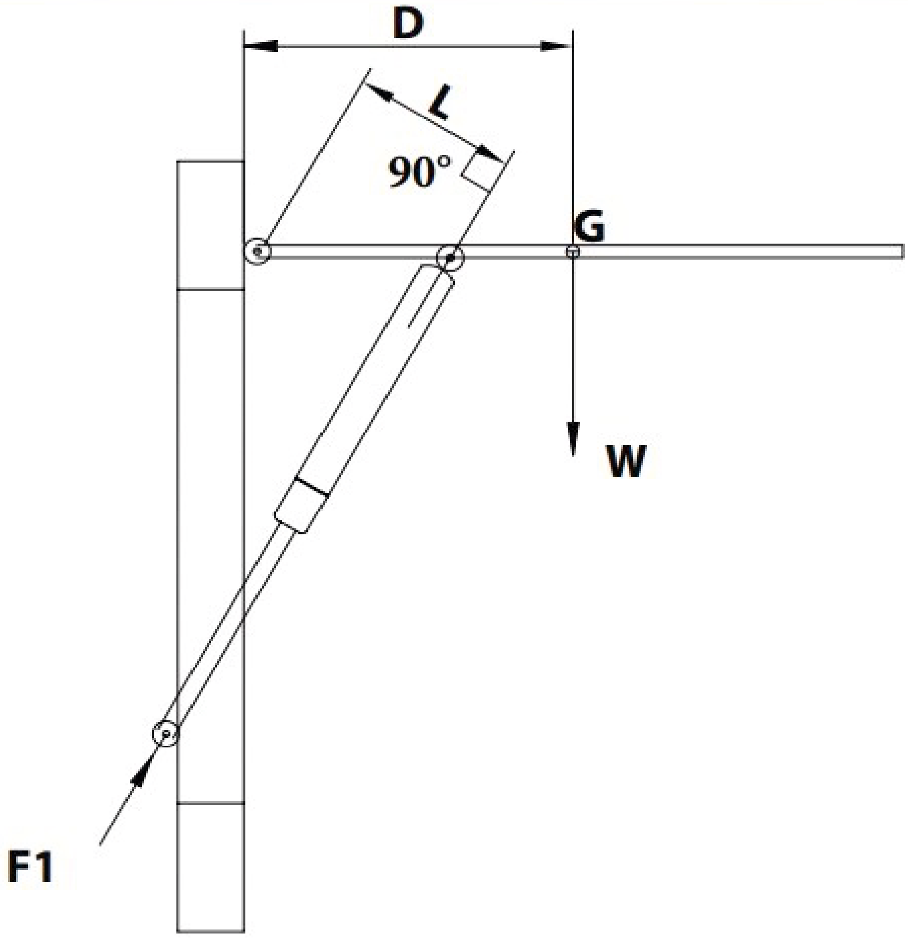
TEMPERATURE vs FORCE VARIATION GRAPH



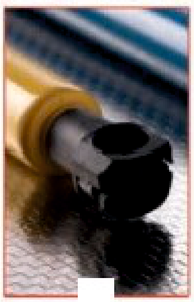



1.2 CALCULATION OF GAS SPRINGS FORCE

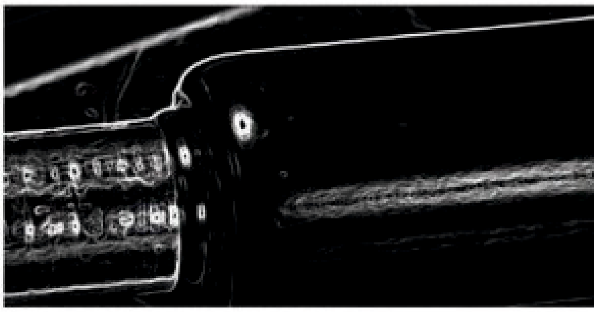
KM Gas springs SUSPENSIONS







CALCULATION TABLE	
F1=	$\frac{W * D}{X * L}$
F1 =	GAS SPRING FORCE
G =	CENTRE OF GRAVITY
W =	WEIGHT OF FLAP
D =	HORIZONTAL DISTANCE FROM CENTRE OF GRAVITY TO PILOV CENTRE
X =	QUANTITY OF NEWTONE GAS SPRING
L =	DISTANCE FROM THE GAS SPRING TO PILOV CENTRE

1.3
STROKE/FORCE VARIATIONS

KM Gas springs SUSPENSIONS

STROKE/FORCE DIAGRAM BASED ON ROD AND TUBE DIAMETRES					
Rod Diameter	Tube Diameter	Force Min/Max (N)		Maximum Strocke	Fr Max (N)
6	15	50	400	200	50
8	18	100	800	300	60
10	21	150	1000	500	80
10	22	150	1100	500	80
10	27	150	1200	500	80
14	27	500	2000	500	80

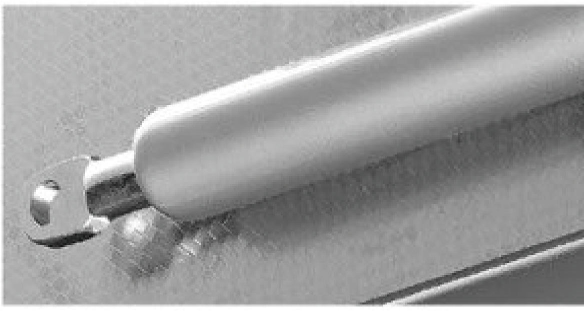
GAS SPRINGS





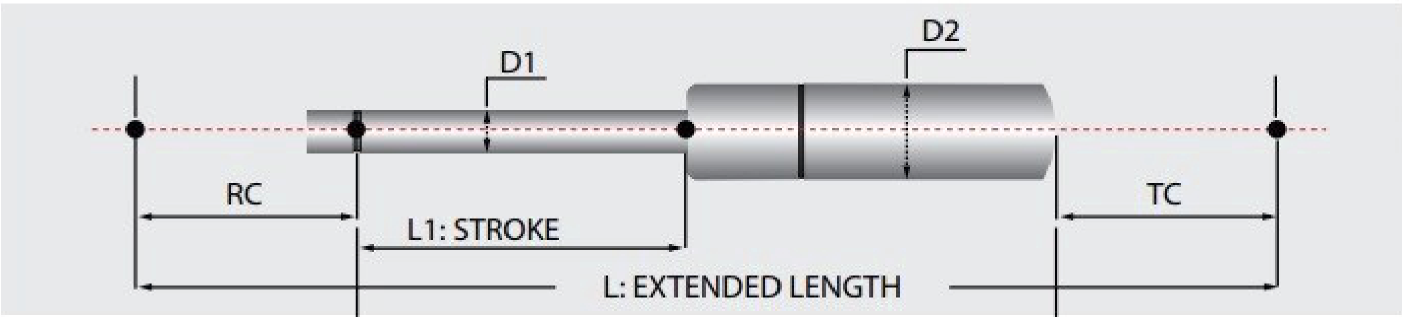


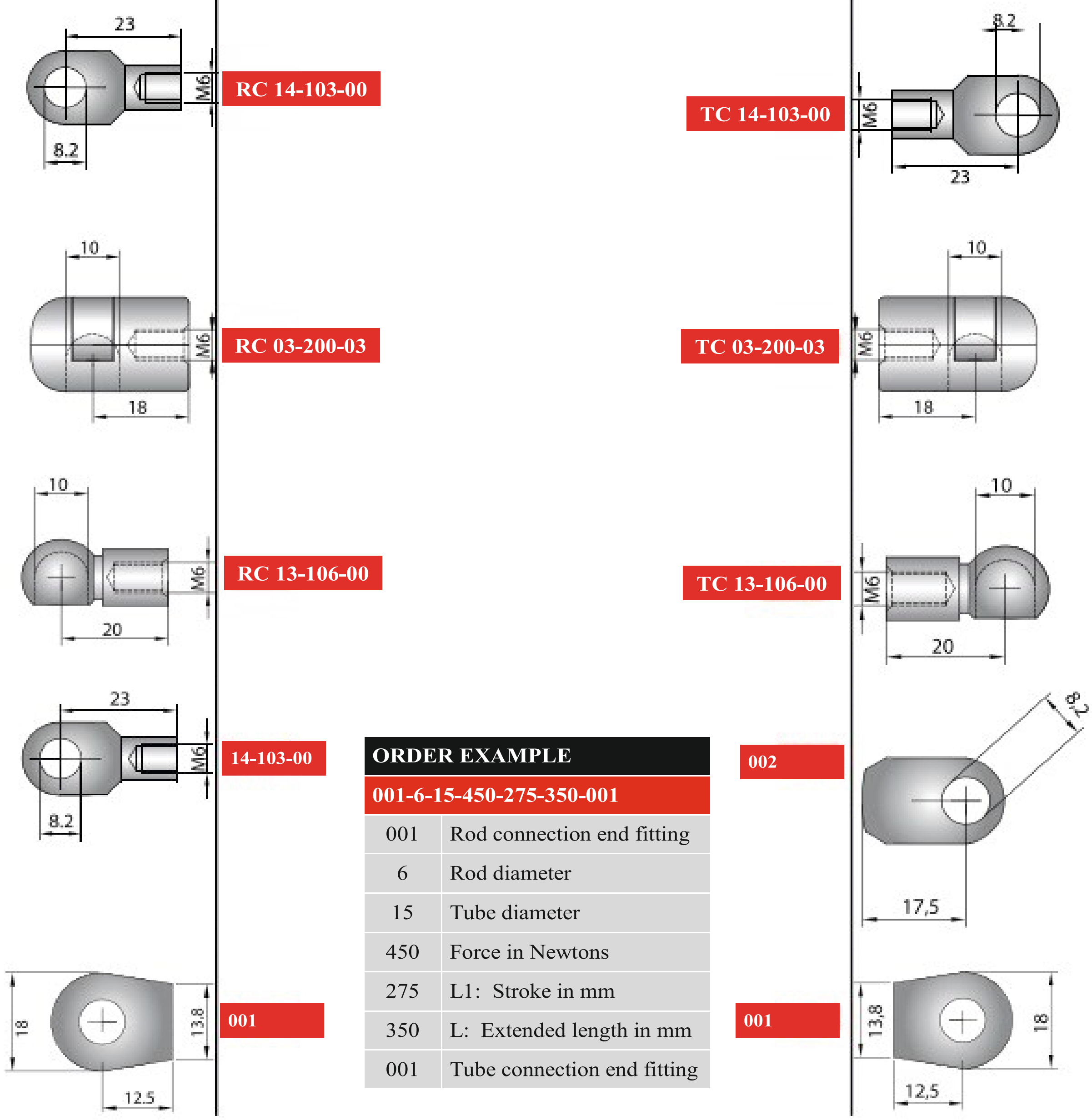




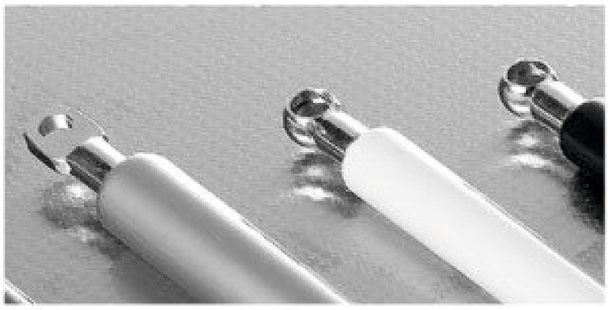
2.1
6/15 STANDARD TYPE GAS SPRINGS

KM Gas springs SUSPENSIONS



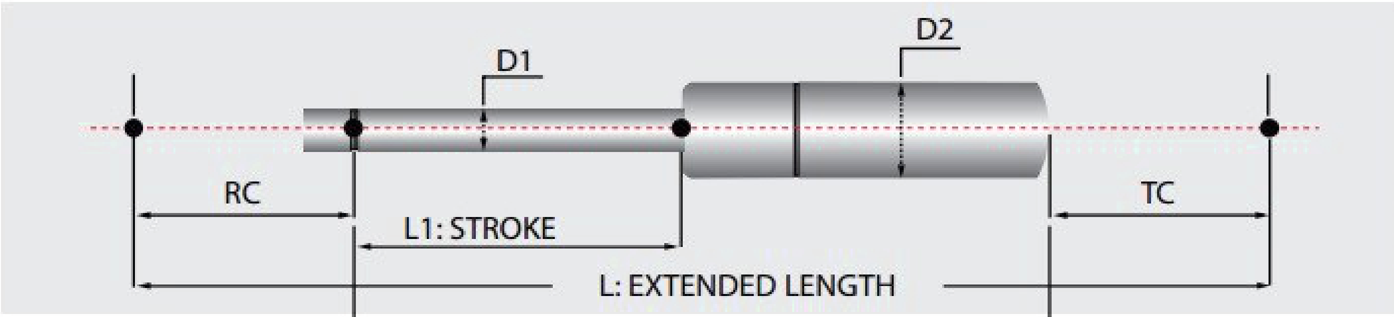


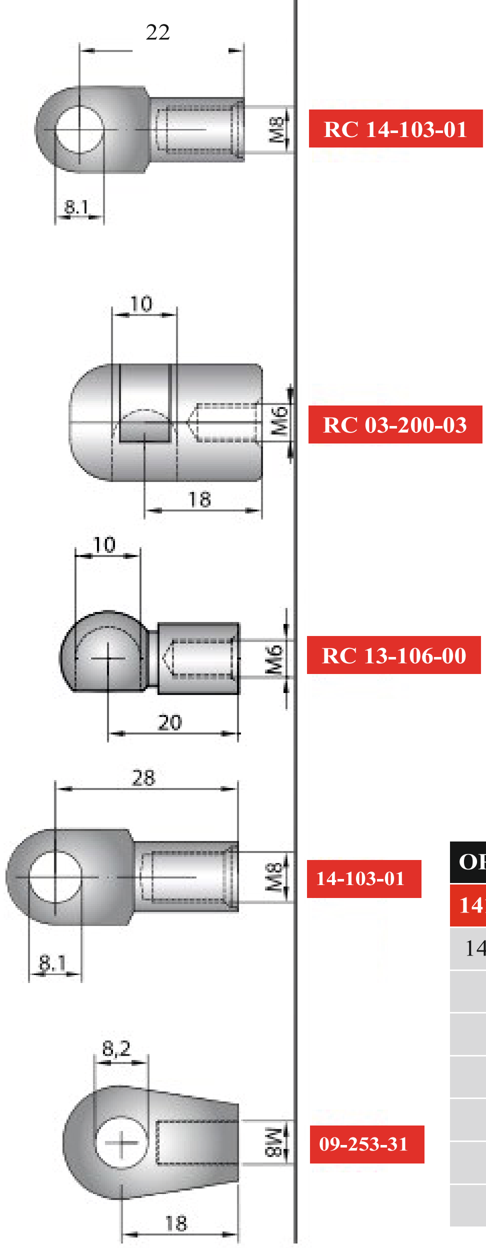
ORDER EXAMPLE	
001-6-15-450-275-350-001	
001	Rod connection end fitting
6	Rod diameter
15	Tube diameter
450	Force in Newtons
275	L1: Stroke in mm
350	L: Extended length in mm
001	Tube connection end fitting



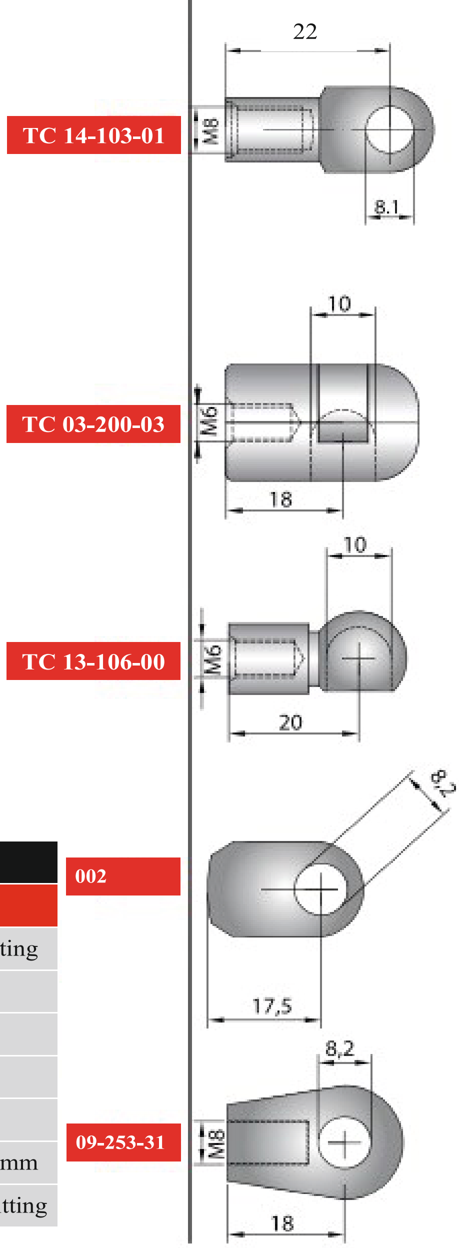
2.2
8/18 STANDARD TYPE GAS SPRINGS

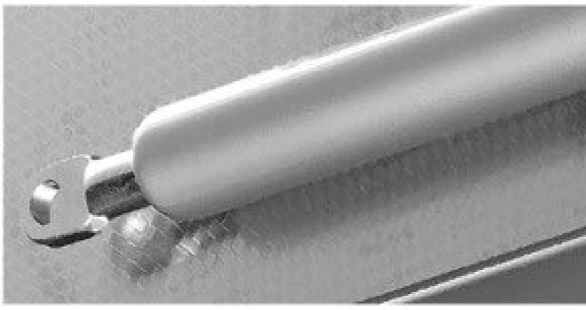
KM Gas springs SUSPENSIONS





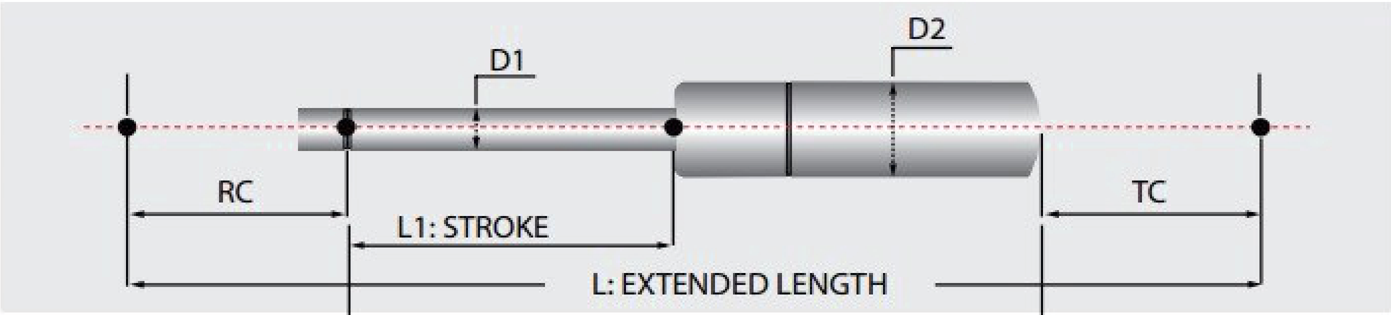
ORDER EXAMPLE	
1410301-8-18-450-275-350-002	
1410301	Rod connection end fitting
8	Rod diameter
18	Tube diameter
450	Force in Newtons
275	L1: Stroke in mm
350	L: Extended length in mm
002	Tube connection end fitting

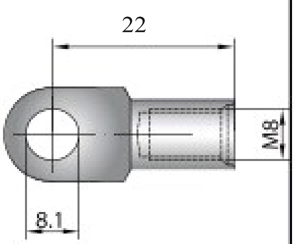




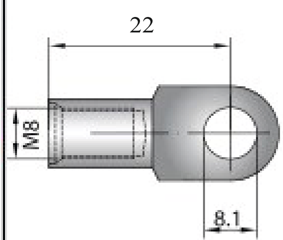
2.3
10/21 STANDARD TYPE GAS SPRINGS

KM Gas springs SUSPENSIONS

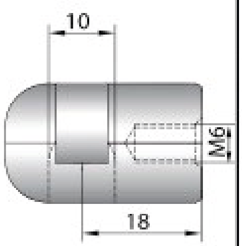




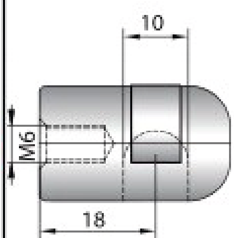
RC 14-103-01



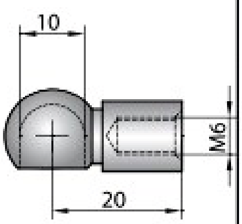
TC 14-103-01



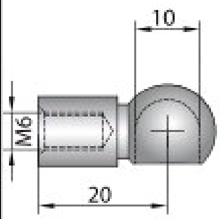
RC 03-200-03



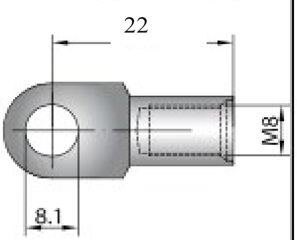
TC 03-200-03



RC 13-106-00



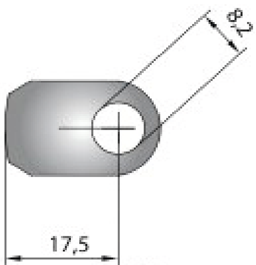
TC 13-106-00

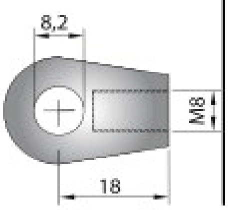


14-103-01

ORDER EXAMPLE	
1310600-10-21-550-275-350-200	
131060 0	Rod connection end fitting
10	Rod diameter
21	Tube diameter
450	Force in Newtons
275	L1: Stroke in mm
350	L: Extended length in mm
002	Tube connection end fitting

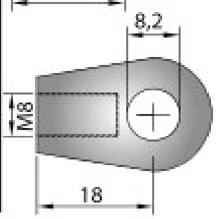
002

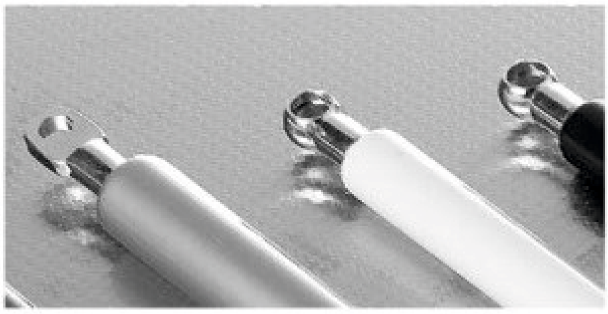




09-253-31

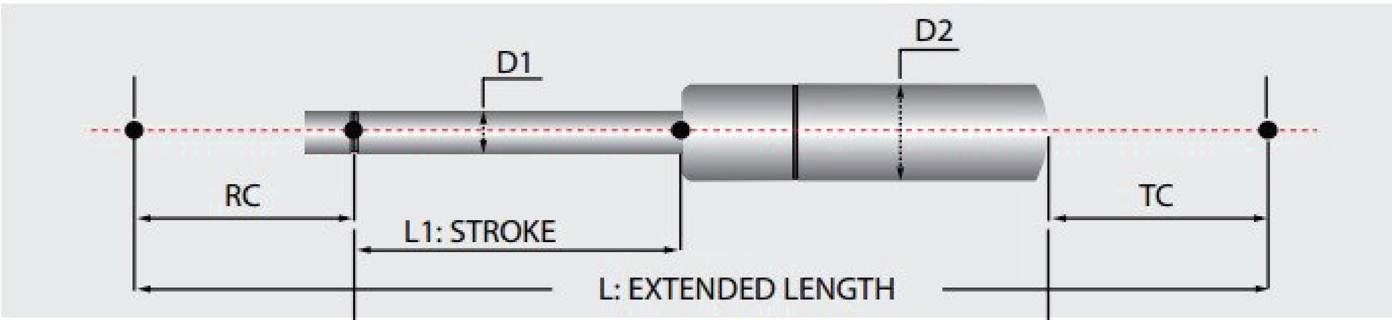
09-253-31

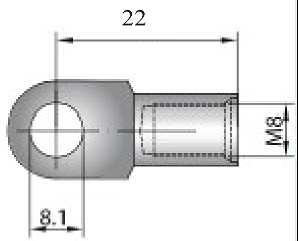




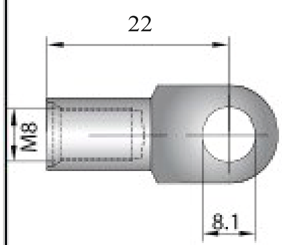
2.4
10/22 STANDARD TYPE GAS SPRINGS

KM Gas springs SUSPENSIONS

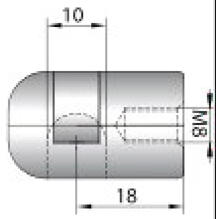




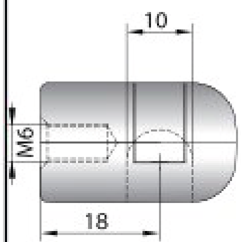
RC 14-103-01



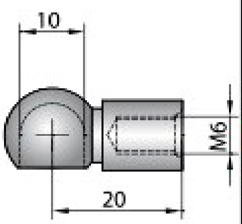
TC 14-103-01



RC 03-202-03



TC 03-200-03



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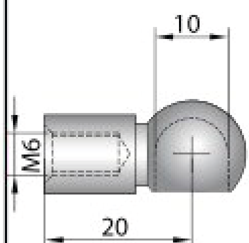

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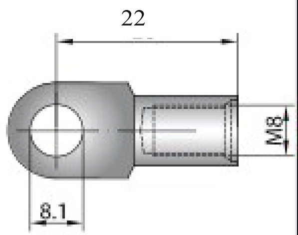
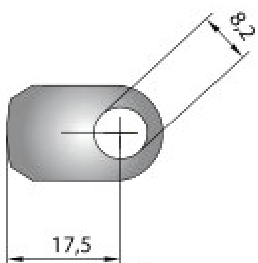
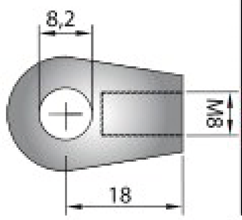


14-103-01

ORDER EXAMPLE	
1310600-10-22-550-275-350-002	
1310600	Rod connection end fitting
10	Rod diameter
22	Tube diameter
450	Force in Newtons
275	L1: Stroke in mm
350	L: Extended length in mm
002	Tube connection end fitting

002





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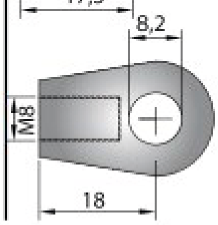
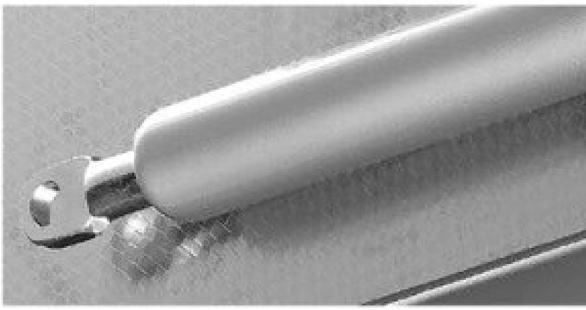
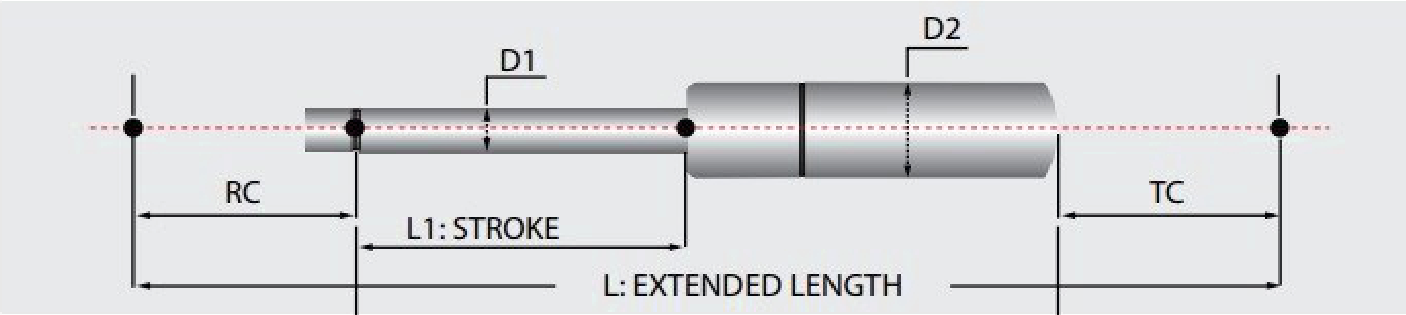
09-253-31

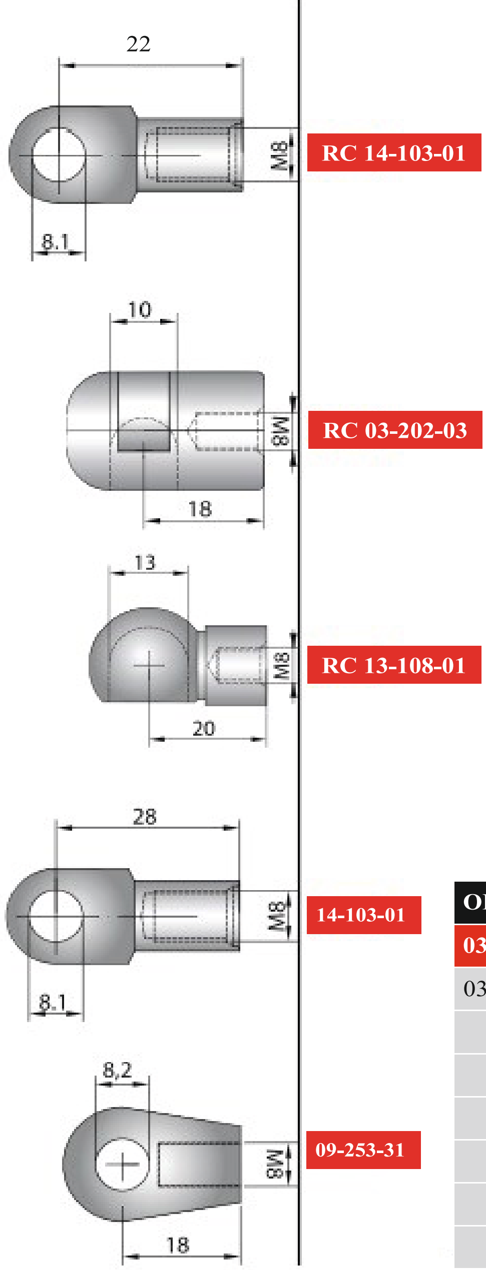




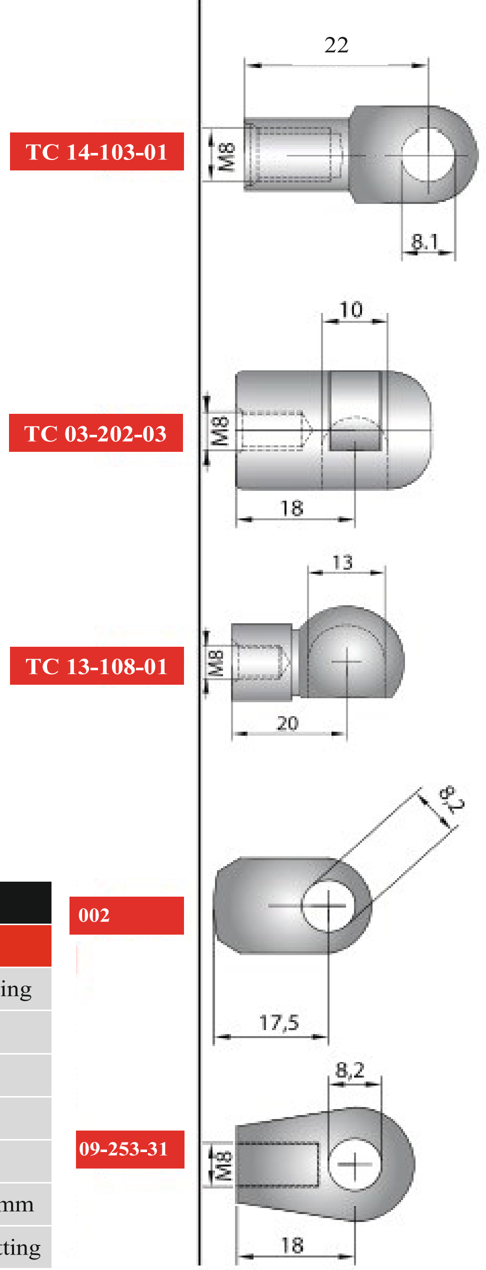
2.5
10/27 STANDARD TYPE GAS SPRINGS

KM Gas springs SUSPENSIONS



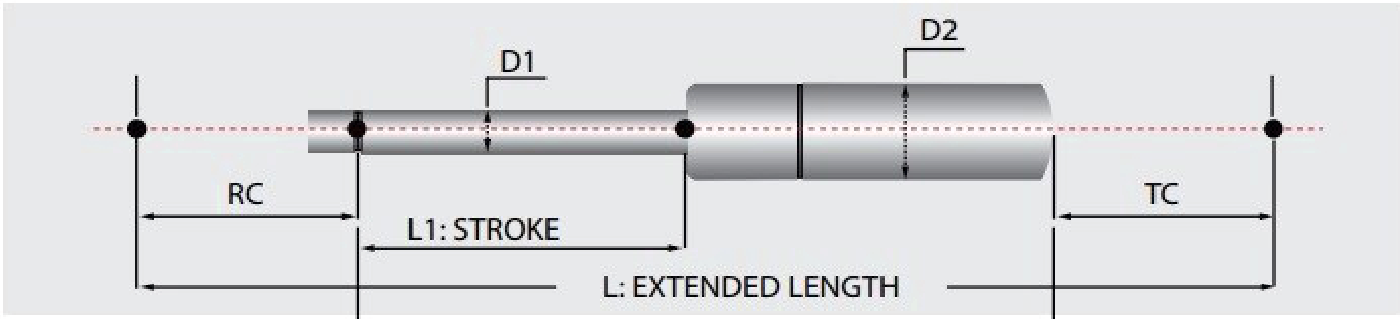


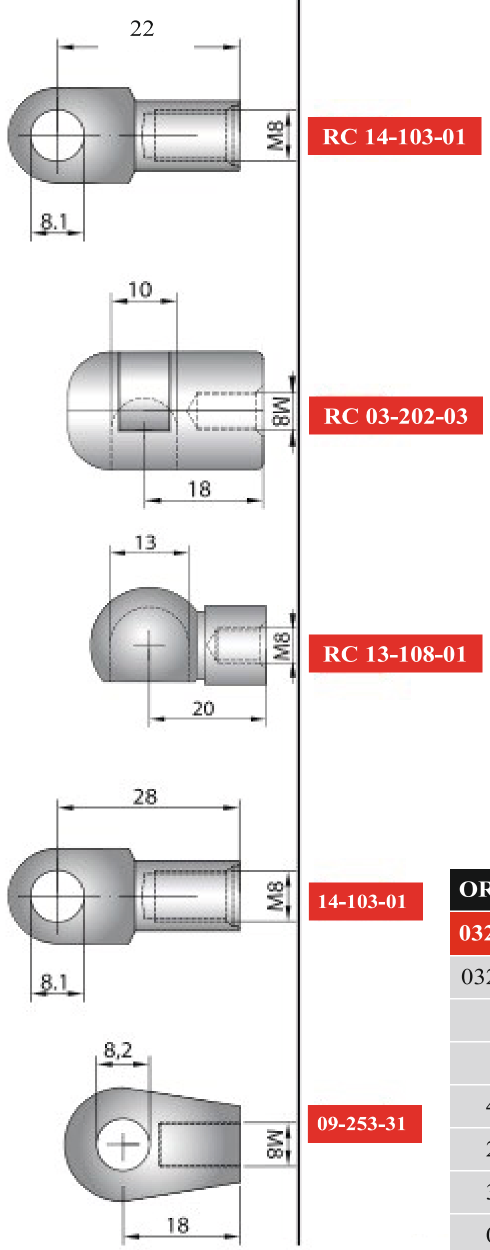
ORDER EXAMPLE	
0320203-10-27-750-275-350-002	
0320203	Rod connection end fitting
10	Rod diameter
27	Tube diameter
450	Force in Newtons
275	L1: Stroke in mm
350	L: Extended length in mm
002	Tube connection end fitting

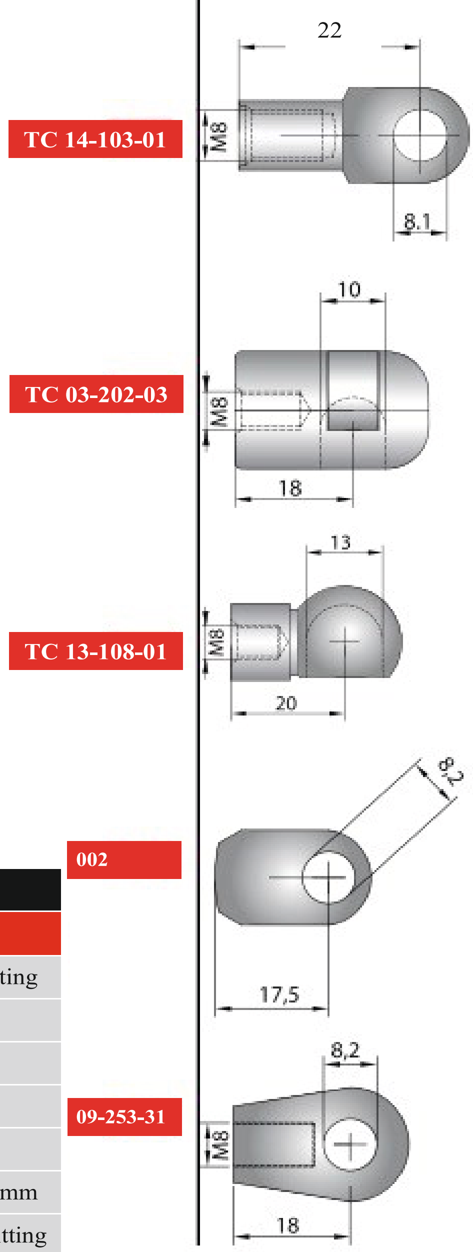


2.6
14/27 STANDARD TYPE GAS SPRINGS

KM Gas springs SUSPENSIONS



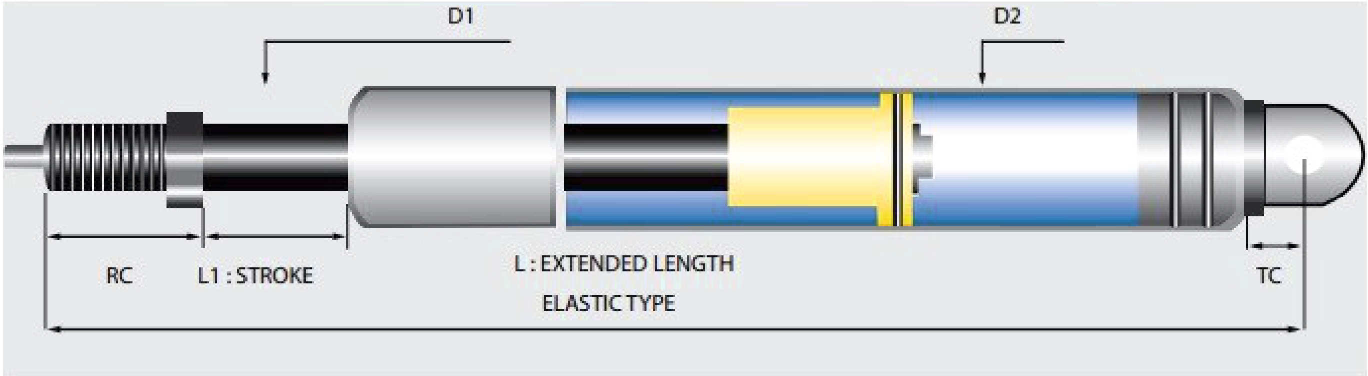


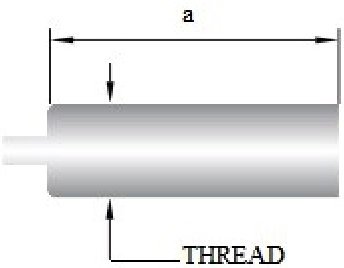


ORDER EXAMPLE	
0320203-14-27-750-275-350-002	
0320203	Rod connection end fitting
14	Rod diameter
27	Tube diameter
450	Force in Newtons
275	L1: Stroke in mm
350	L: Extended length in mm
002	Tube connection end fitting

2.7 LOCKABLE TYPE GAS SPRINGS (ELASTIC)

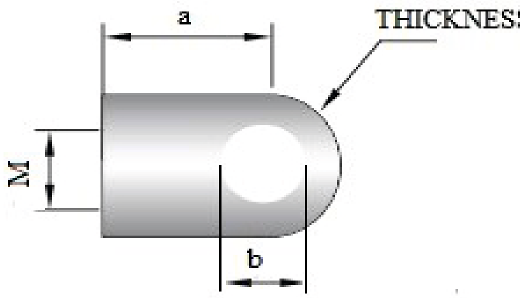
KM Gas springs SUSPENSIONS





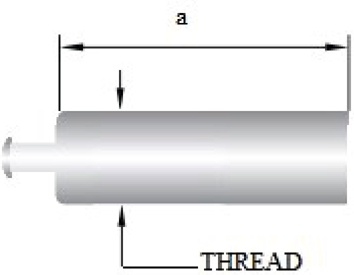
RC TYPE A

TC TYPE A



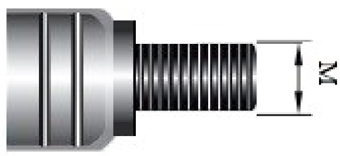
P/N	THREAD SIZE	a
RCA0	M8x1	16
RCA1	M10x1	18
RCA2	M14x1.5	20

THREAD SIZE	THICKNESS	a	b
8-10	5-8-10-12-14	15-17-20	8.2-10.2



RC TYPE B

TC TYPE B

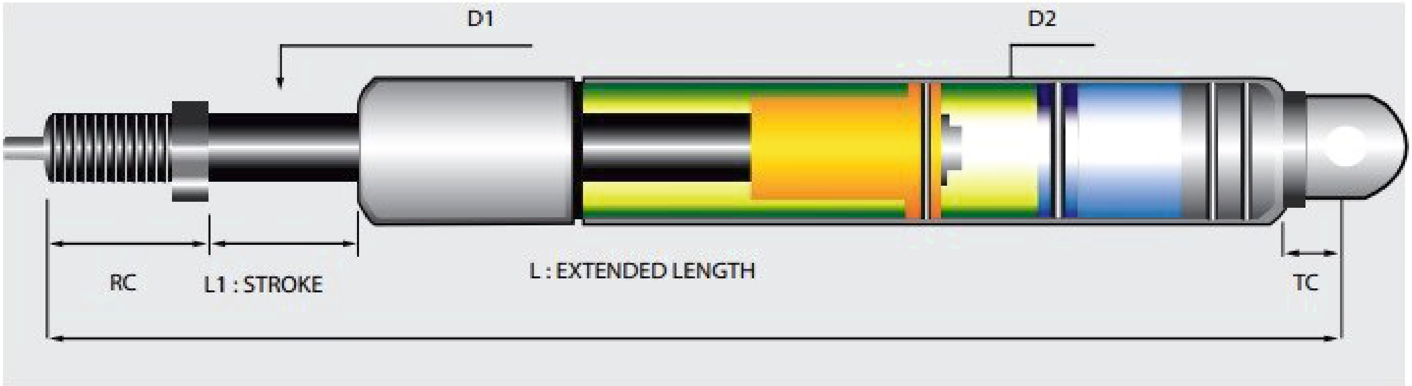


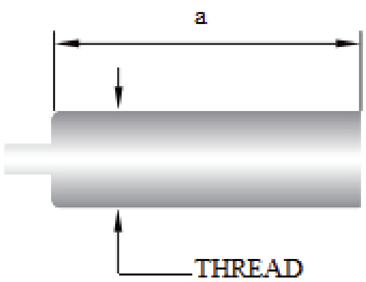
P/N	THREAD SIZE	a
RCB0	M8x1	16
RCB1	M10x1	18
RCB2	M14x1.5	20

P/N	THREAD SIZE
TC0	M8
TC1	M10
Other type s of end fittings see below	

2.8
LOCKABLE TYPE GAS SPRINGS(RIGID)

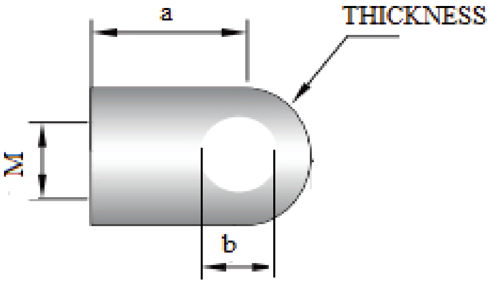
KM Gas springs SUSPENSIONS





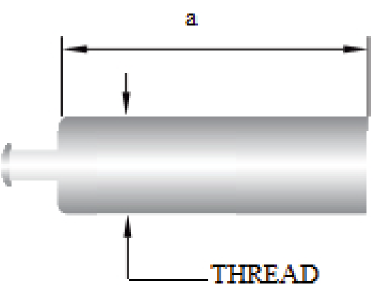
RC TYPE A

TC TYPE A



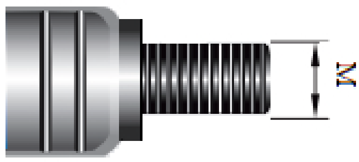
P/N	THREAD SIZE	a
RCA0	M8x1	16
RCA1	M10x1	18
RCA2	M14x1.5	20

THREAD SIZE	THICKNESS	a	b
8-10	5-8-10-12-14	15-17-20	8.2-10.2



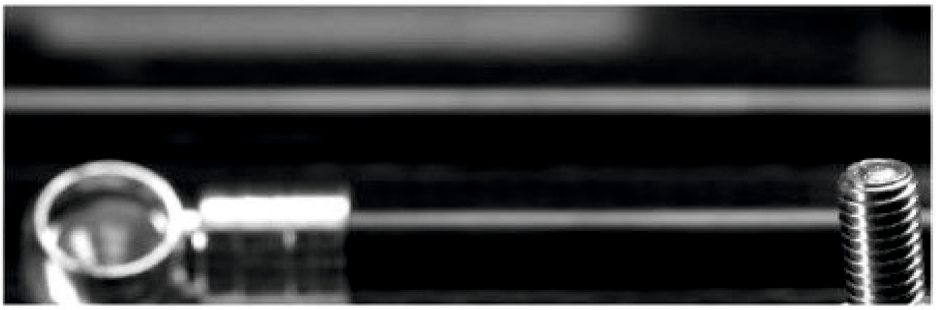
RC TYPE B

TC TYPE B

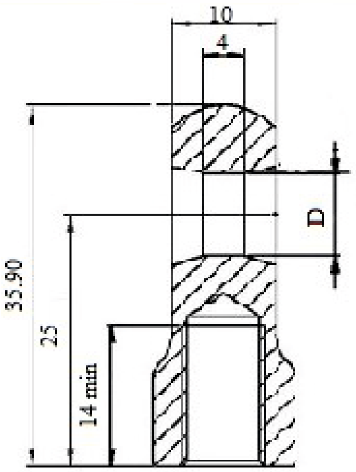


P/N	THREAD SIZE	a
RCB0	M8x1	16
RCB1	M10x1	18
RCB2	M14x1.5	20

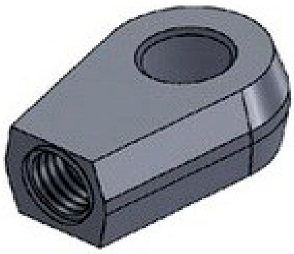
P/N	THREAD SIZE
TC0	M8
TC1	M10
Other type s of end fittings see below	

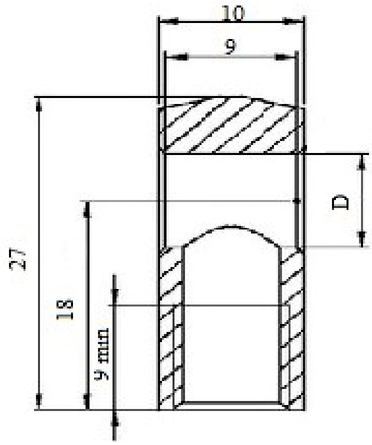


3.1 METAL END FITTINGS

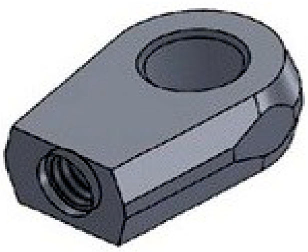


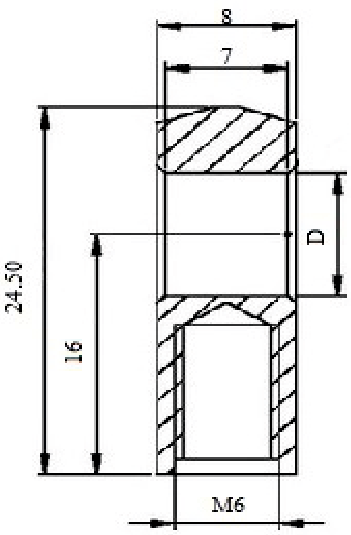
P/N	THREAD SIZE	D+0.1 mm
09-250-00	M6	6.1
09-250-01	M6	8.1
09-250-30	M8	6.1
09-250-31	M8	8.1



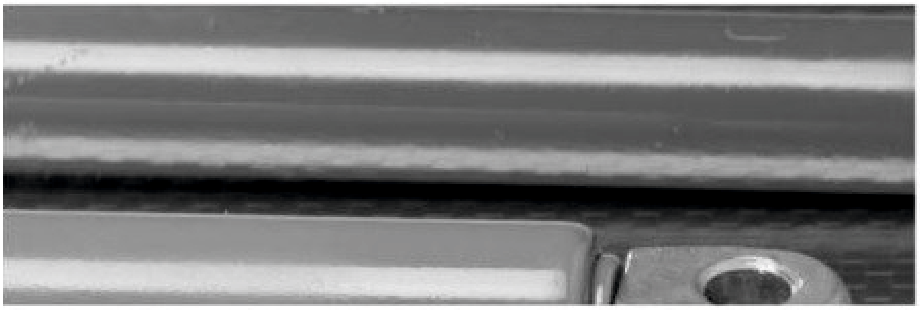


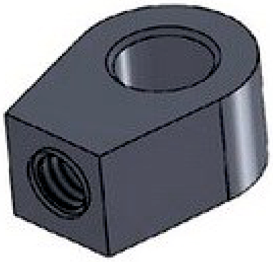
P/N	THREAD SIZE	D+0.1 mm
09-253-10	M6	6.1
09-253-11	M6	8.1
09-253-12	M6	10.1
09-253-30	M8	6.1
09-253-31	M8	8.1
09-253-32	M8	10.1

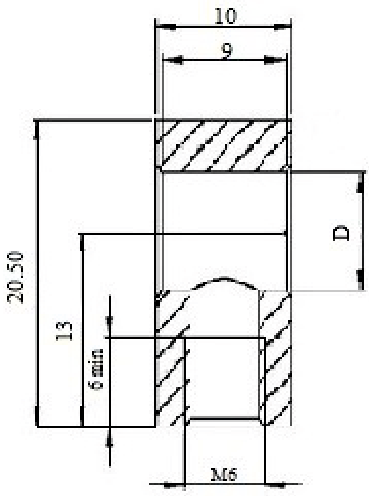




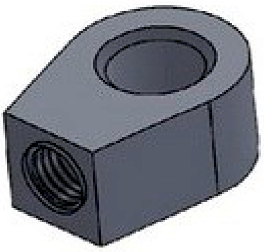
P/N	THREAD SIZE	D+0.1 mm
09-254-00	M6	6.1
09-254-01	M6	8.1

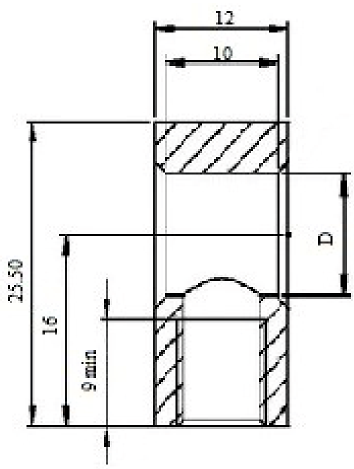




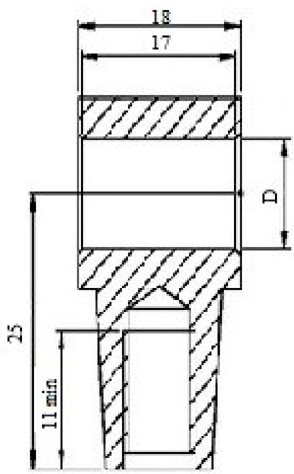


P/N	THREAD SIZE	D+0.1 mm
09-255-00	M6	6.1
09-255-01	M6	8.1

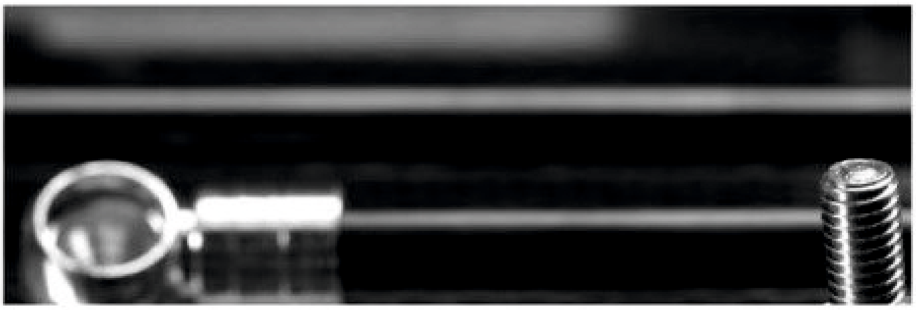


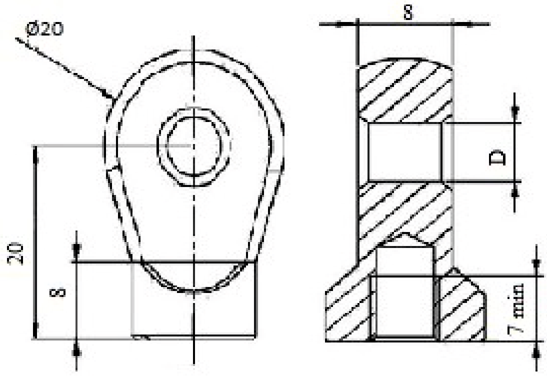


P/N	THREAD SIZE	D+0.1 mm
09-256-10	M6	8.1
09-256-11	M6	10.1
09-256-30	M8	8.1
09-256-31	M8	10.1
09-256-60	M10	8.1
09-256-61	M10	10.1

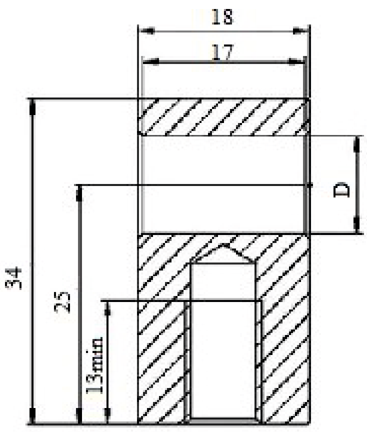


P/N	THREAD SIZE	D+0.1 mm
09-261-30	M8	8.1
09-261-31	M8	8.5
09-261-32	M8	10.1



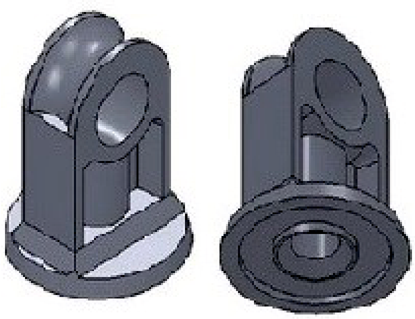


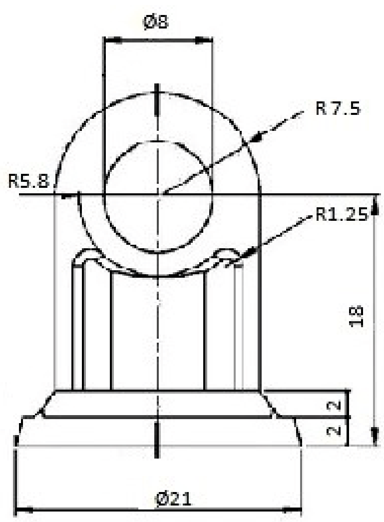
P/N	THREAD SIZE	D+0.1 mm
09-277-00	M6	6.1
09-277-01	M6	8.1
09-277-02	M6	10.1

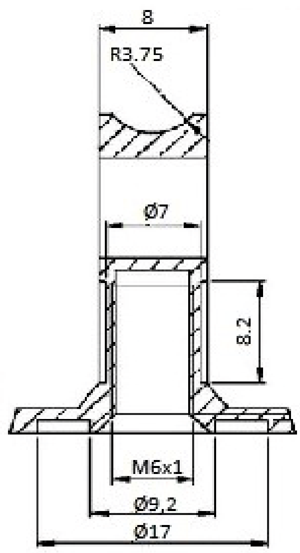


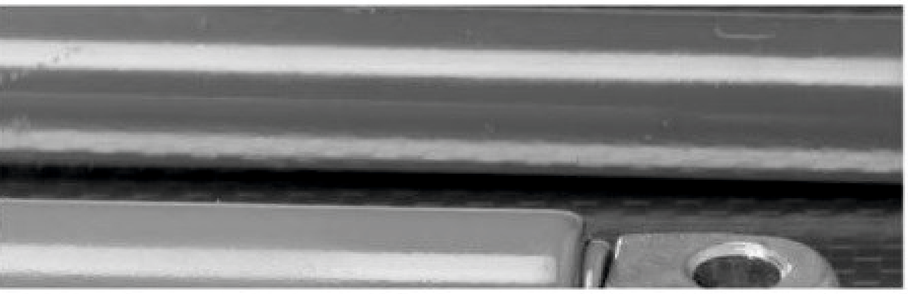
P/N	THREAD SIZE	D+0.1 mm
09-279-30	M8	8.1
09-279-31	M8	10.1
09-279-60	M10	8.1
09-279-61	M10	10.1

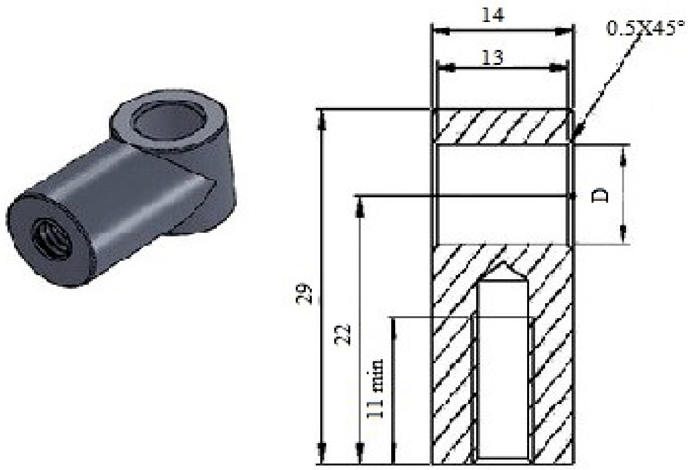
P/N 09-252-00



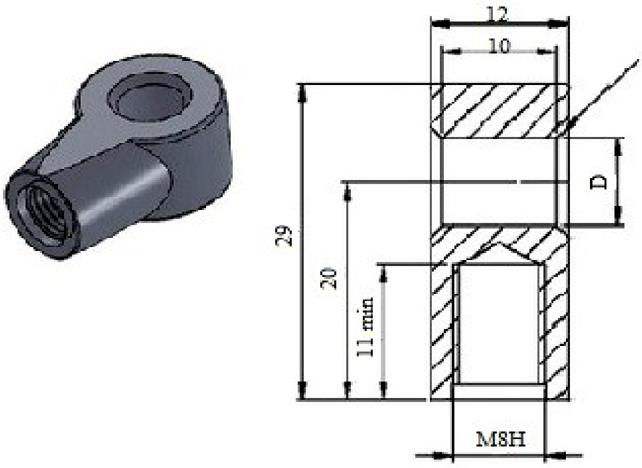




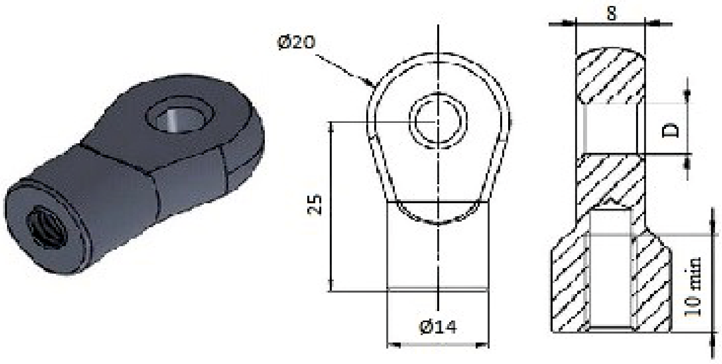




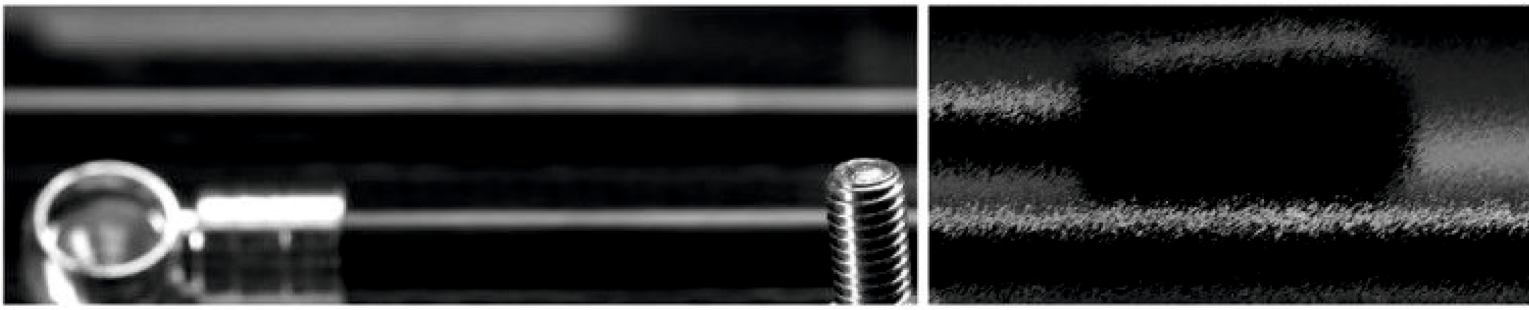
P/N	THREAD SIZE	D+0.1 mm
09-262-00	M6	6.1
09-262-01	M6	8.1
09-262-30	M8	6.1
09-262-31	M8	8.1



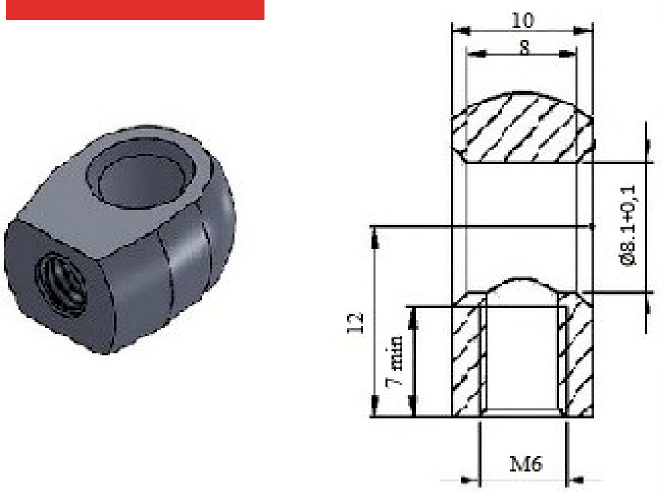
P/N	THREAD SIZE	D+0.1 mm
09-263-30	M8	8.1
09-263-31	M8	10.1



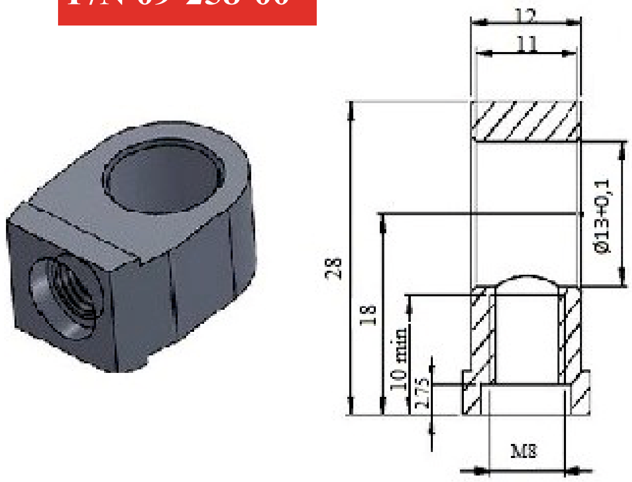
P/N	THREAD SIZE	D+0.1 mm
09-276-00	M6	6.1
09-276-01	M6	8.1
09-276-02	M6	10.1
09-276-30	M8	6.1
09-276-31	M8	8.1
09-276-32	M8	10.1



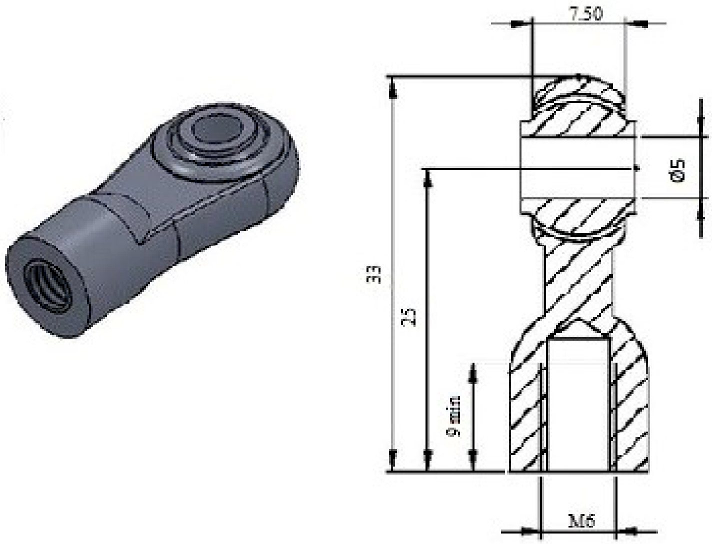
P/N 09-257-00



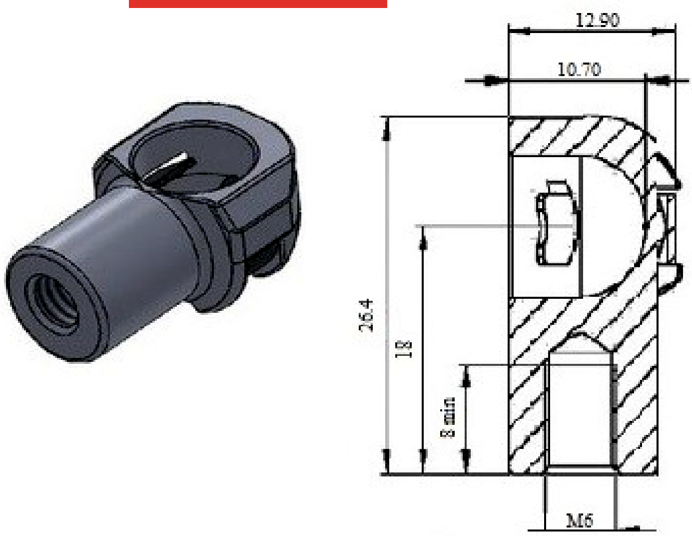
P/N 09-258-00

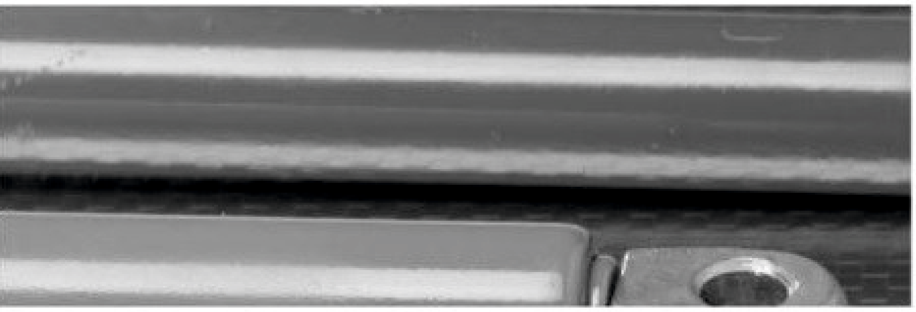


P/N 09-264-00

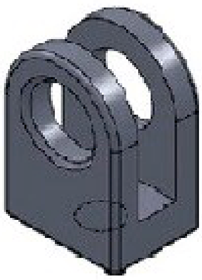


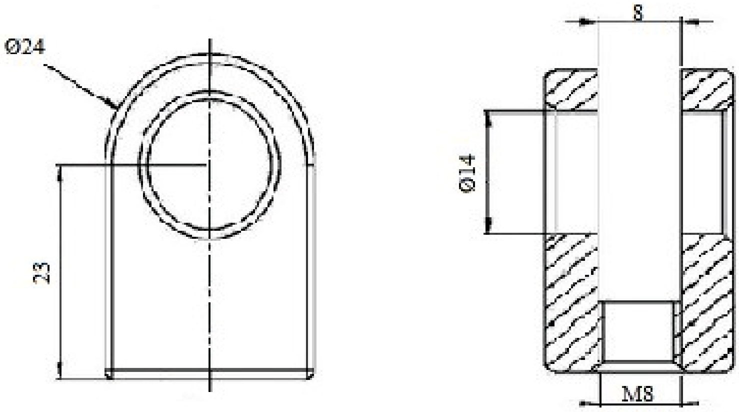
P/N 09-280-00



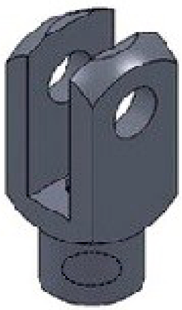


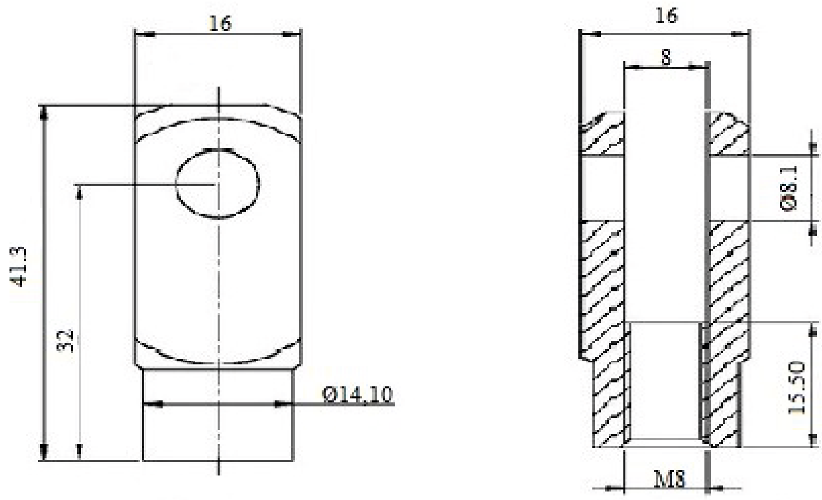
P/N 09-271-00

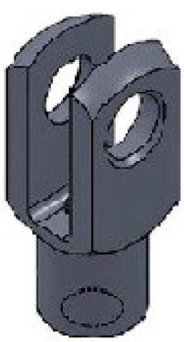


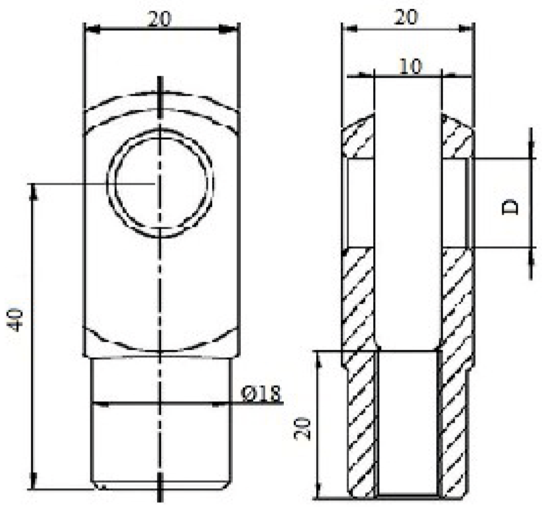


P/N 09-273-00

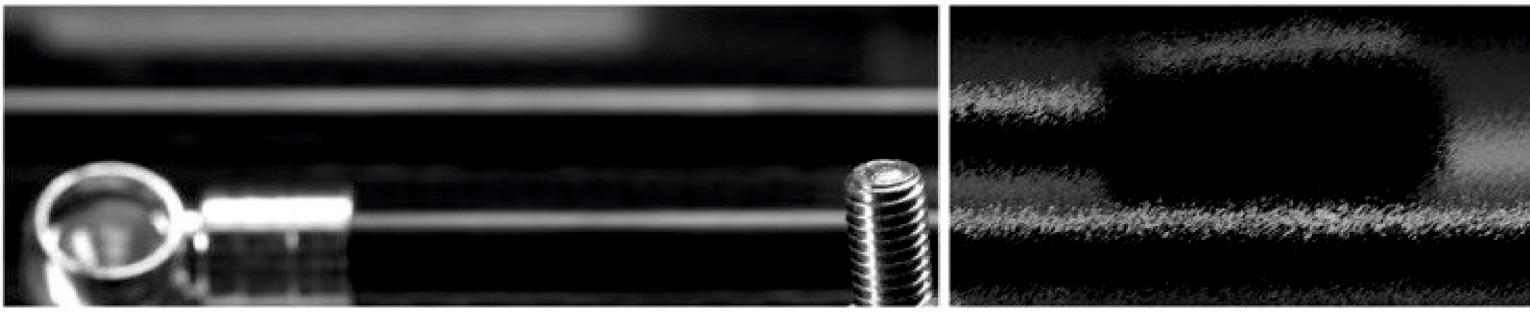






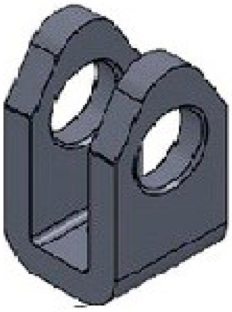


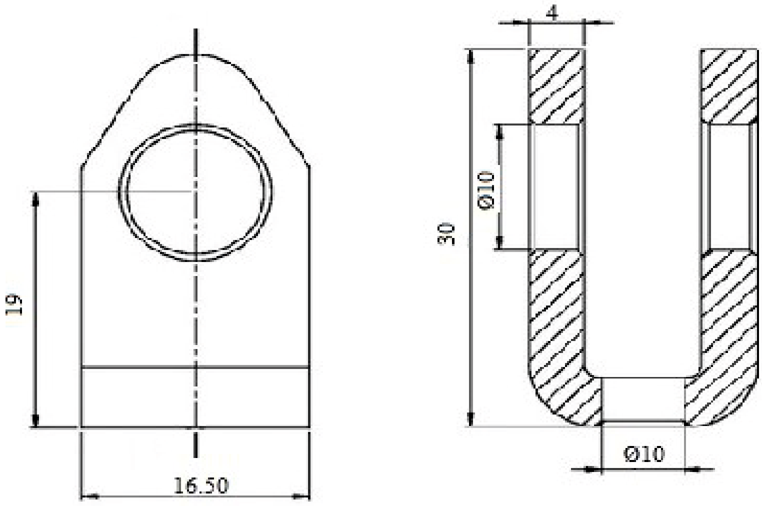
P/N	THREAD SIZE	D+0.1 mm
09-272-30	M8	8.1
09-272-31	M8	10.1
09-272-32	M8	12
09-272-60	M10x1	8.1
09-272-61	M10x1	10.1
09-272-61	M10x1	12



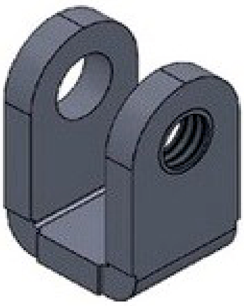
KM Gas springs SUSPENSIONS

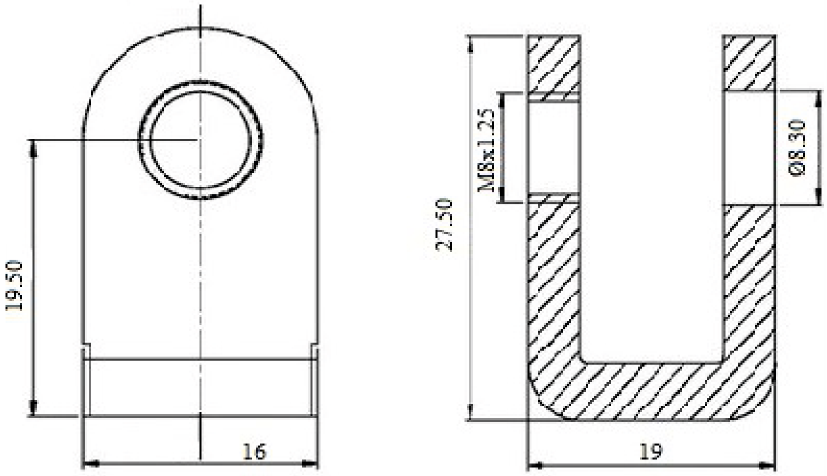
P/N 05-112-00



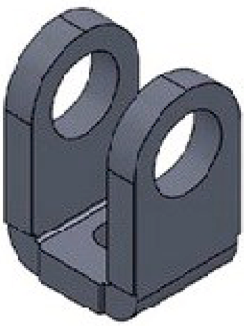


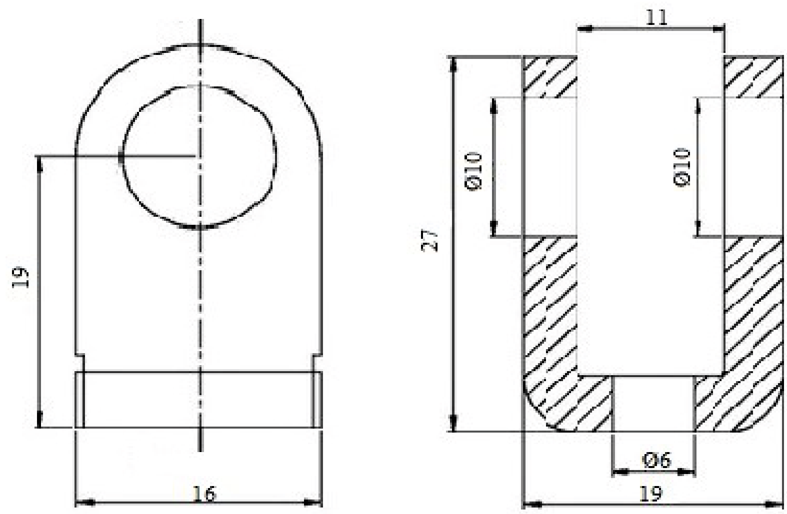
P/N 05-113-00

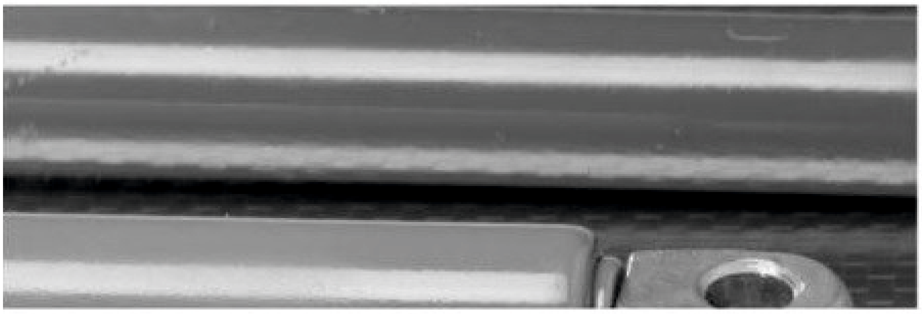


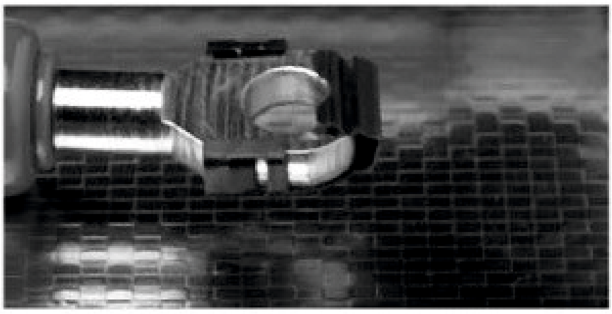


P/N 05-113-01

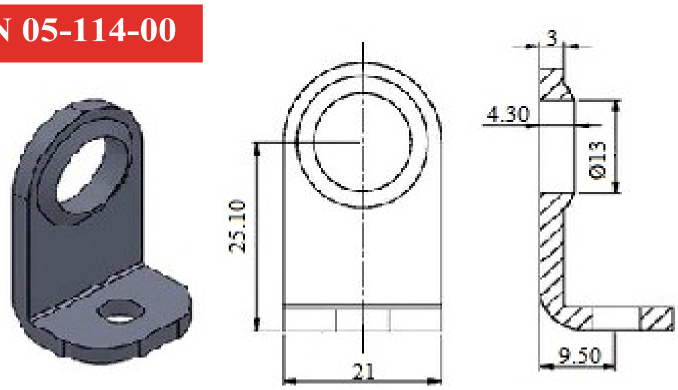




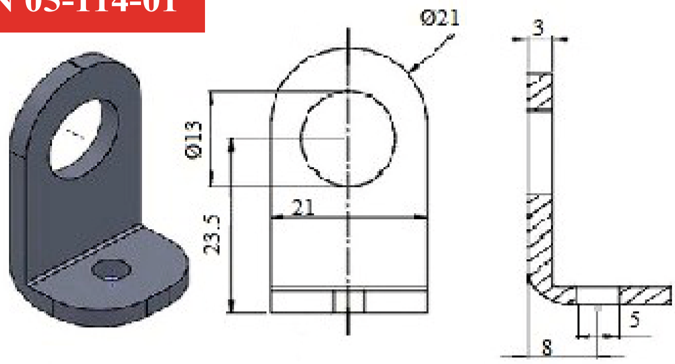




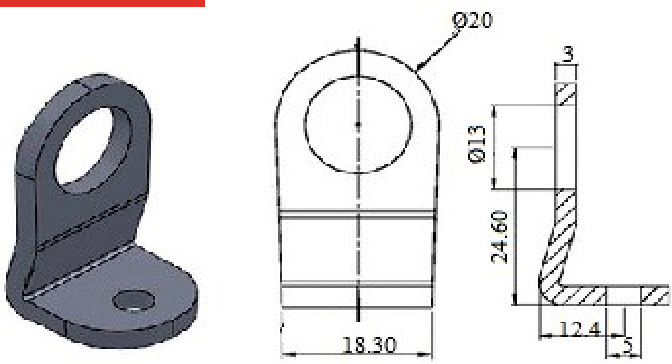
P/N 05-114-00



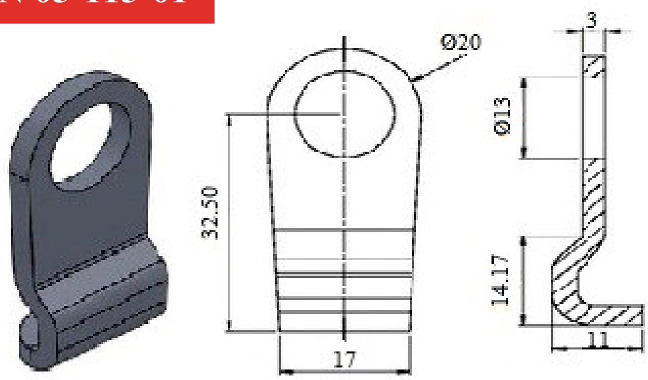
P/N 05-114-01



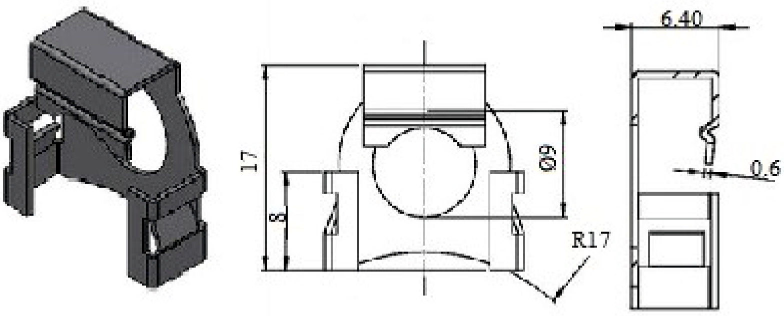
P/N 05-115-00



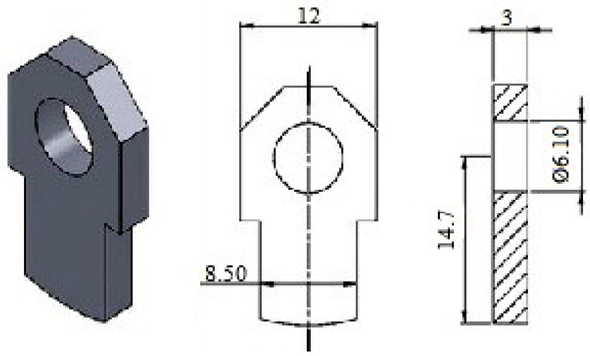
P/N 05-115-01

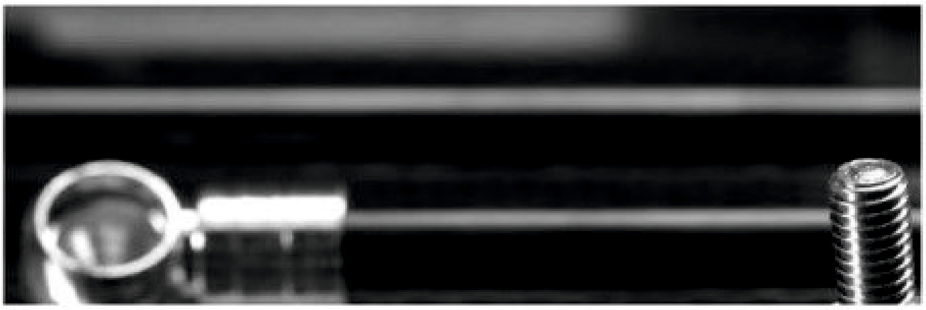


P/N 05-118-00

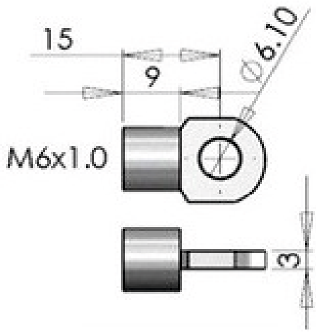


P/N 05-119-00

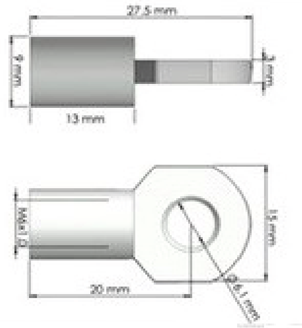




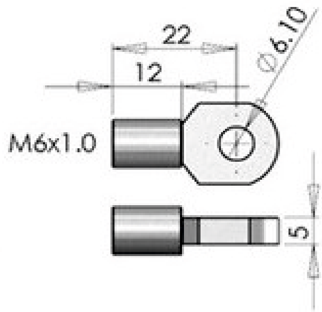
M6 P/N 14-100-00
M8 P/N 14-100-01
M10 P/N 14-100-02



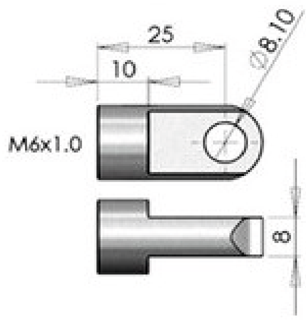
M6 P/N 14-101-00
M8 P/N 14-101-01
M10 P/N 14-101-02



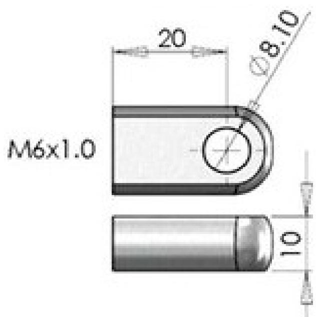
M6 P/N 14-102-00
M8 P/N 14-102-01
M10 P/N 14-102-02



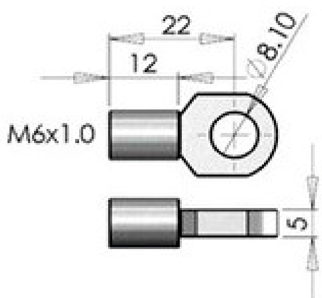
M6 P/N 14-105-00
M8 P/N 14-105-01
M10 P/N 14-105-02

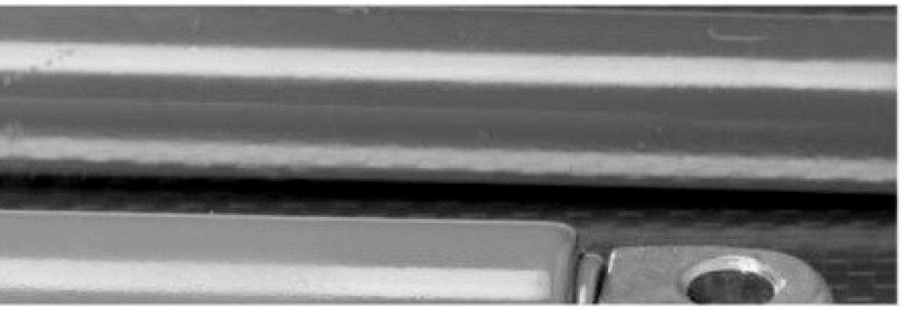


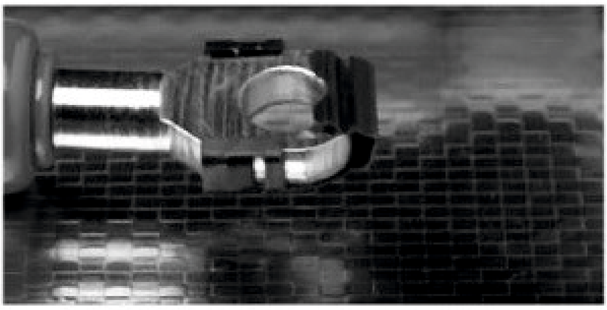
M6 P/N 14-104-00
M8 P/N 14-104-01
M10 P/N 14-104-02



M6 P/N 14-103-00
M8 P/N 14-103-01
M10 P/N 14-103-02



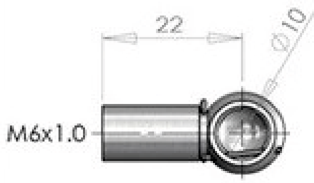




P/N 13-106-00

P/N 13-106-00

P/N 13-106-00



P/N 13-106-00

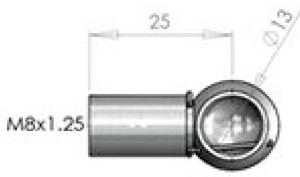
P/N 13-106-00

P/N 13-106-00

P/N 13-106-00

P/N 13-106-00

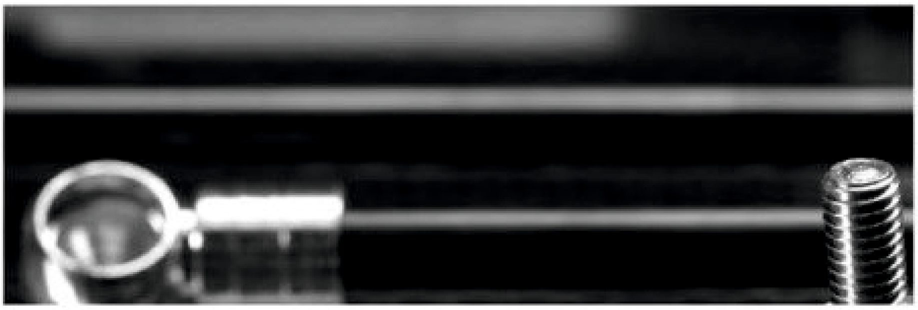
P/N 13-106-00



P/N 13-106-00

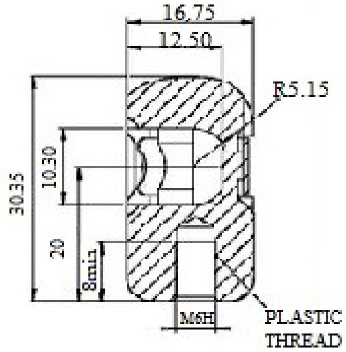
P/N 13-106-00

P/N 13-106-00

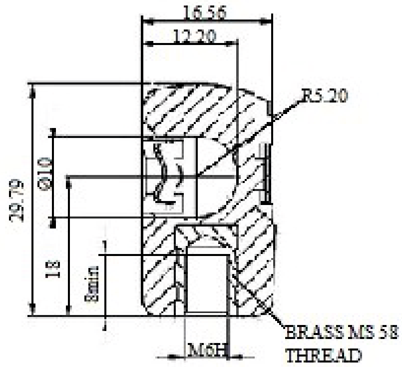


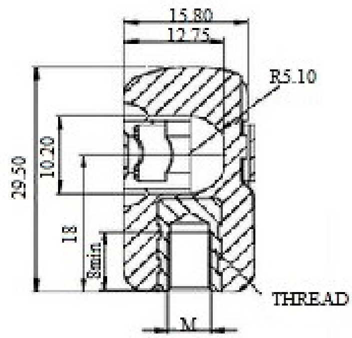
3.2
PLASTIC END FITTINGS

P/N 03-200-01

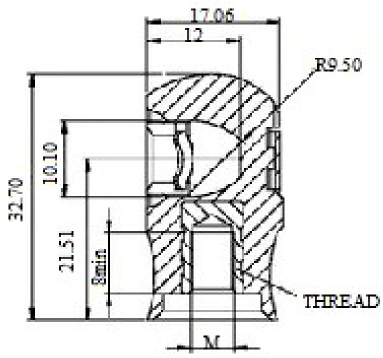


P/N 03-210-04

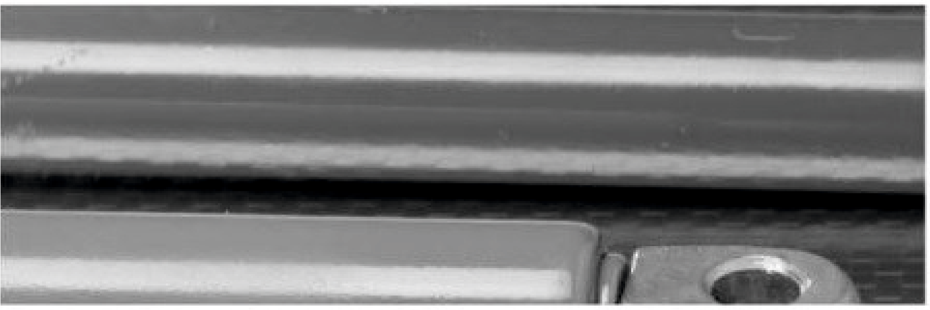


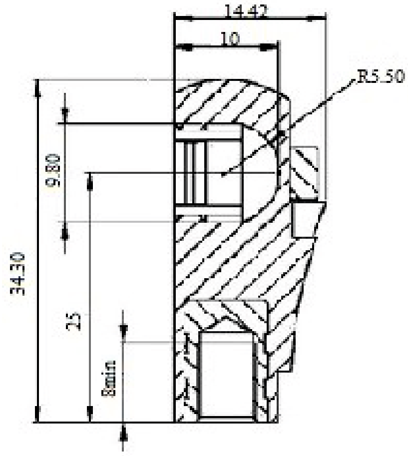


P/N	THREAD SIZE	THREAD MATERIAL
03-200-02	M6H	ZAMAK5
03-200-03	M6H	CARBON STEEL
03-202-03	M8H	CARBON STEEL

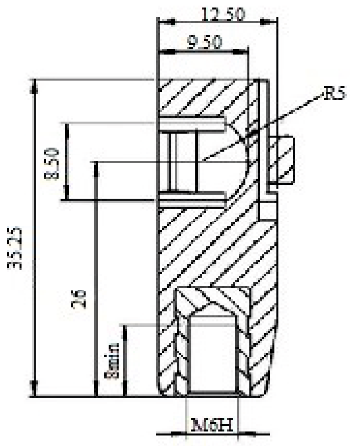


P/N	THREAD SIZE	THREAD MATERIAL
03-230-02	M6H	ZAMAK5
03-230-03	M6H	CARBON STEEL
03-232-03	M8H	CARBON STEEL

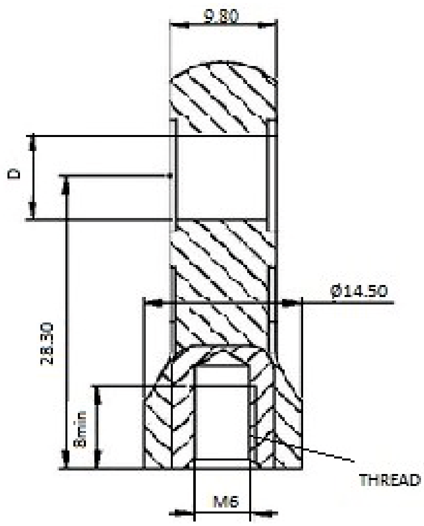




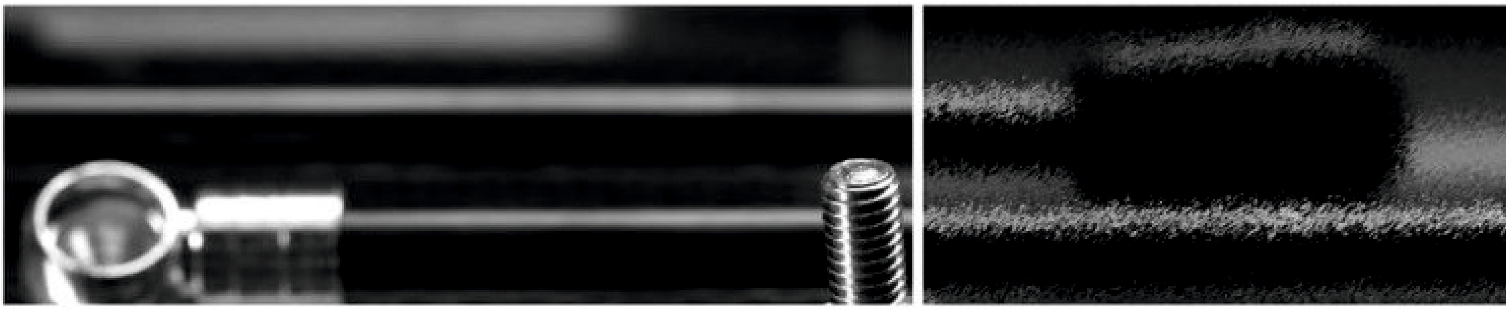
P/N	THREAD SIZE	THREAD MATERIAL
03-250-02	M6	ZAMAK5
03-250-03	M6	CARBON STEEL
03-252-03	M8	CARBON STEEL

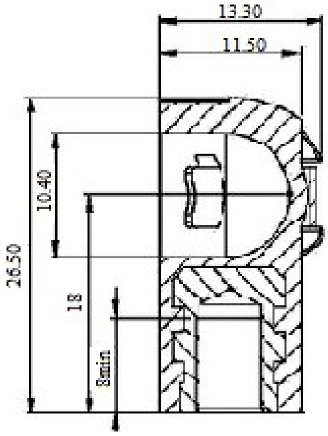


P/N	THREAD SIZE	THREAD MATERIAL
03-260-02	M6	ZAMAK5
03-260-03	M6	CARBON STEEL

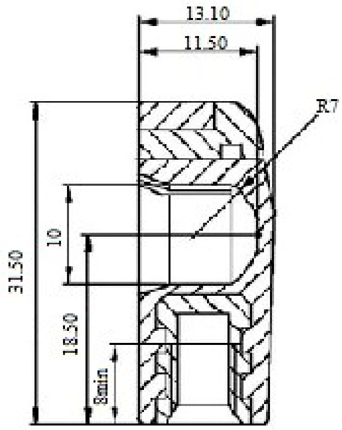


P/N	D	THREAD MATERIAL
03-290-01	10.10	PLASTIC
03-290-02	10.10	ZAMAK5
03-290-03	10.10	CARBON STEEL
03-300-01	8.40	PLASTIC
03-300-02	8.40	ZAMAK5
03-300-03	8.40	CARBON STEEL

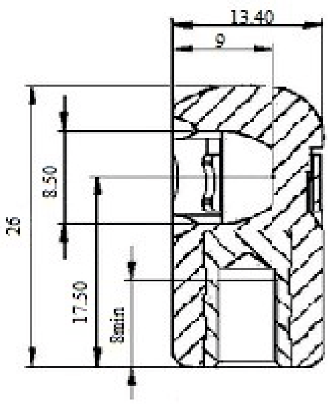




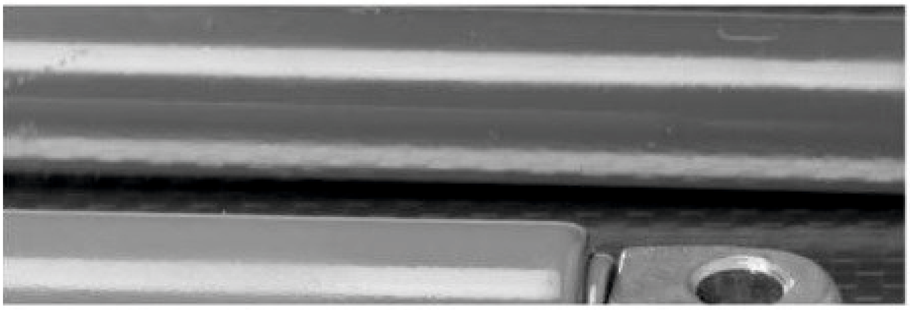
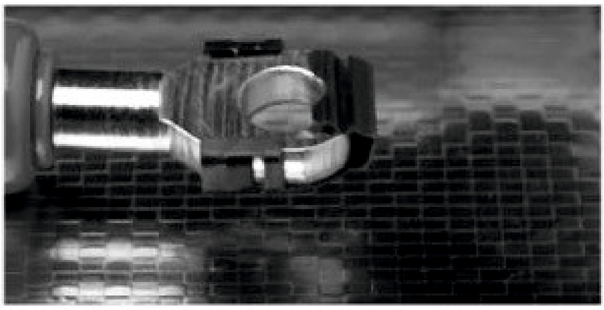
P/N	THREAD SIZE	THREAD MATERIAL
03-360-02	M6	ZAMAK5
03-360-03	M6	CARBON STEEL
03-360-04	M6	BRASS MS 58



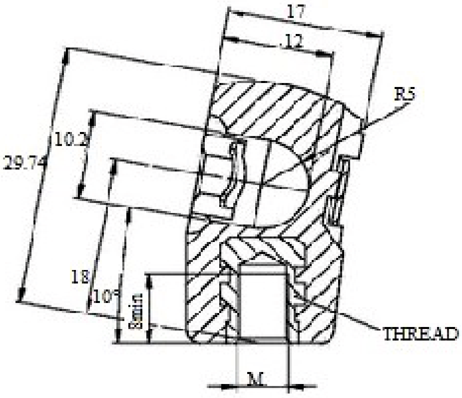
P/N	THREAD SIZE	THREAD MATERIAL
03-310-01	M6	PLASTIC
03-310-02	M6	ZAMAK 5
03-310-04	M6	BRASS MS 58



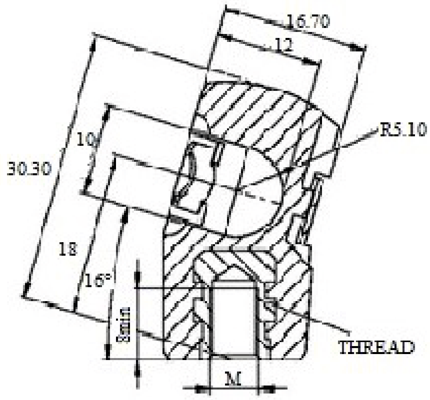
P/N	THREAD SIZE	THREAD MATERIAL
03-320-01	M6	PLASTIC
03-320-02	M6	ZAMAK 5
03-320-03	M6	CARBON STEEL

Gas springs SUSPENSIONS

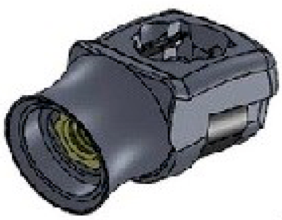
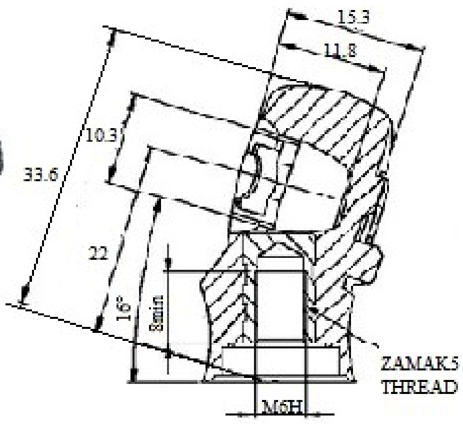



P/N	THREAD SIZE	THREAD MATERIAL
03-340-02	M6	ZAMAK5
03-340-04	M6	BRASS MS 58
03-342-03	M8	CARBON STEEL

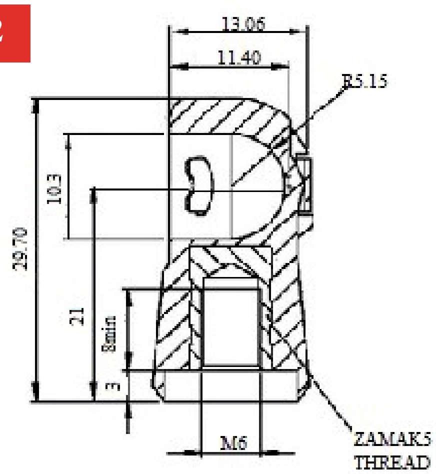



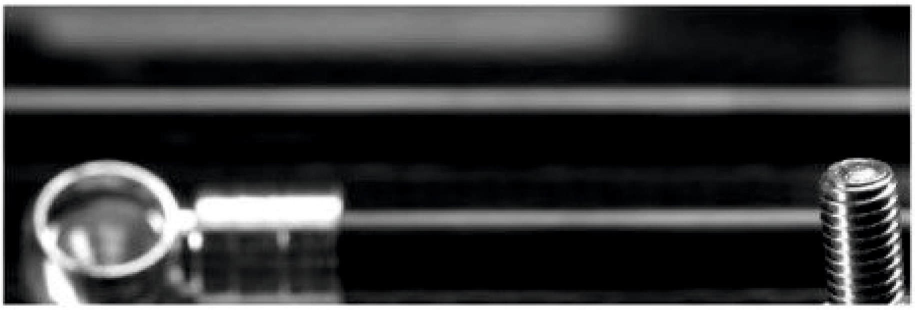
P/N	THREAD SIZE	THREAD MATERIAL
03-350-02	M6	ZAMAK5
03-350-03	M6	CARBON STEEL
03-350-04	M6	BRASS MS 58
03-352-03	M8	CARBON STEEL

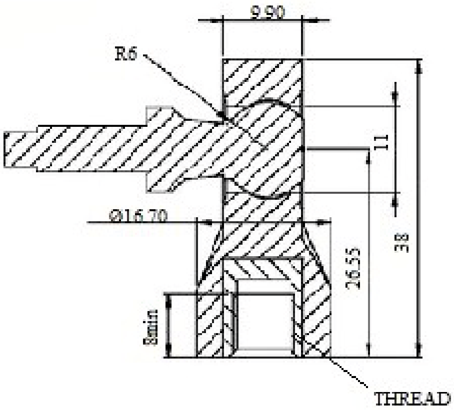
P/N 03-240-02

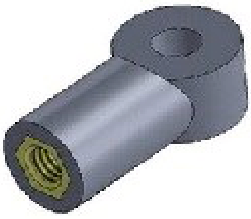
P/N 03-270-02

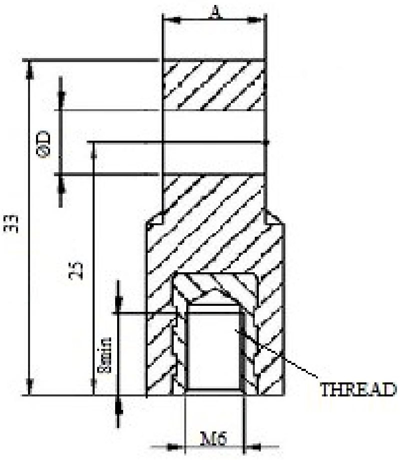







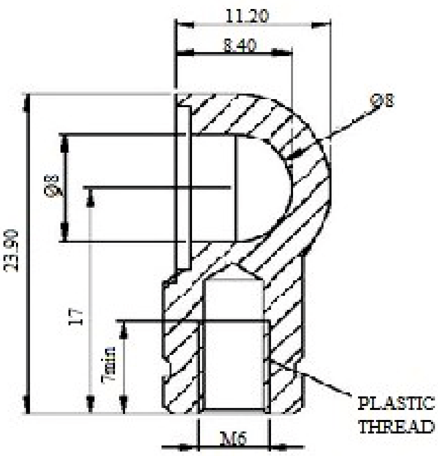
P/N	THREAD SIZE	THREAD MATERIAL
03-280-02	M6	ZAMAK5
03-280-03	M8	CARBON STEEL



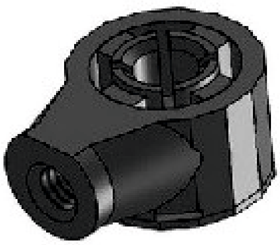


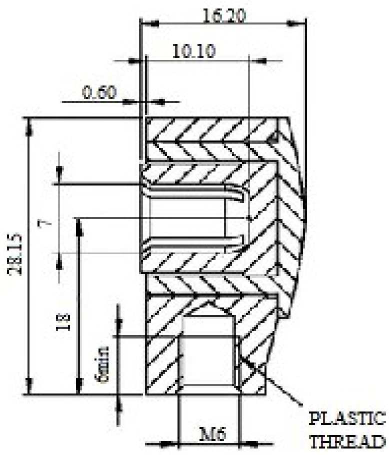
P/N	A	D	THREAD MATERIAL
03-500-02	10	6	ZAMAK5
03-500-03	10	6	CARBON STEEL
03-500-04	10	6	BRASS MS 58
03-510-02	14	8.5	ZAMAK5
03-510-03	14	8.5	CARBON STEEL
03-510-04	14	8.5	BRASS MS 58
03-520-02	10	8.5	ZAMAK5
03-520-03	10	8.5	CARBON STEEL
03-520-04	10	8.5	BRASS MS 58

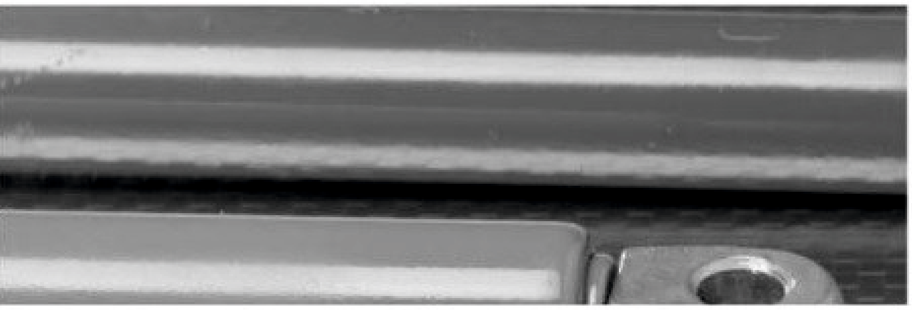
P/N 03-214-00

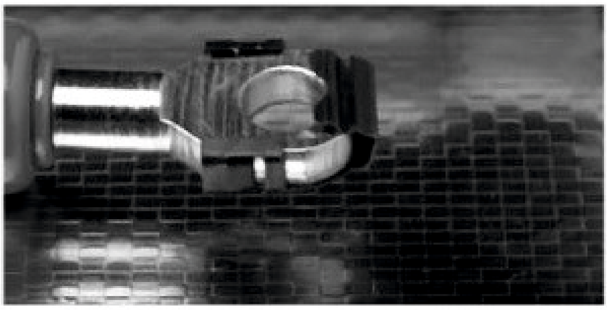


P/N 03-209-00

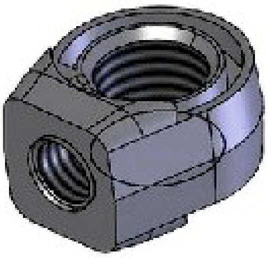


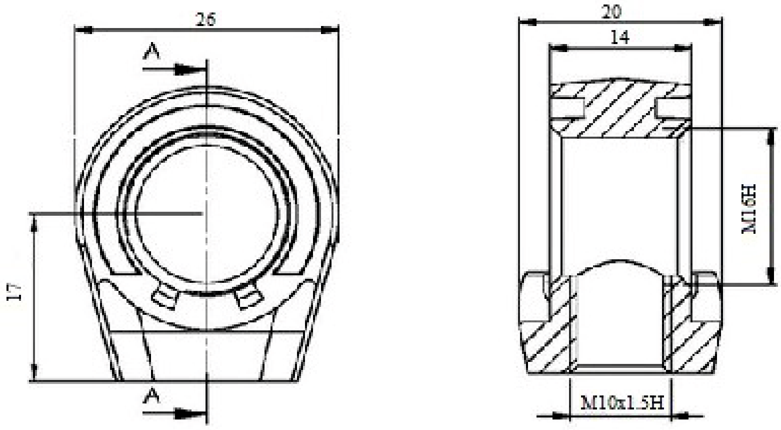




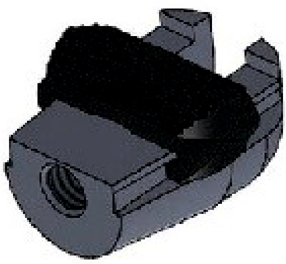


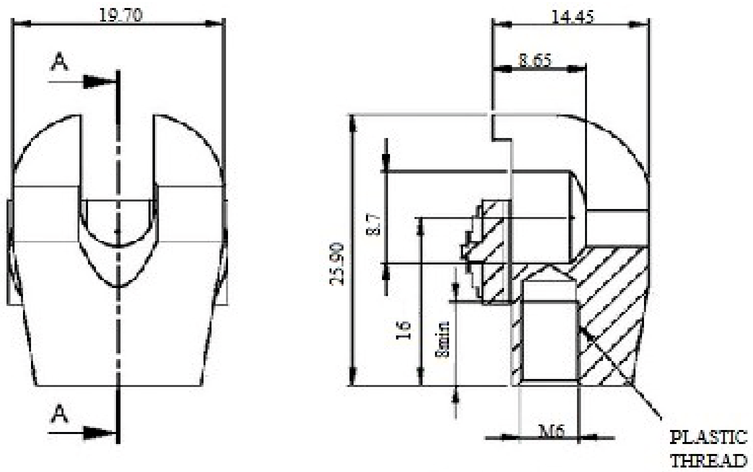
P/N 03-900-01



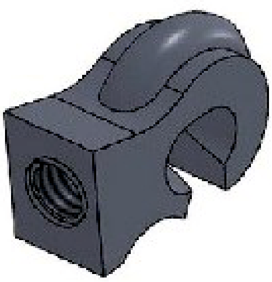


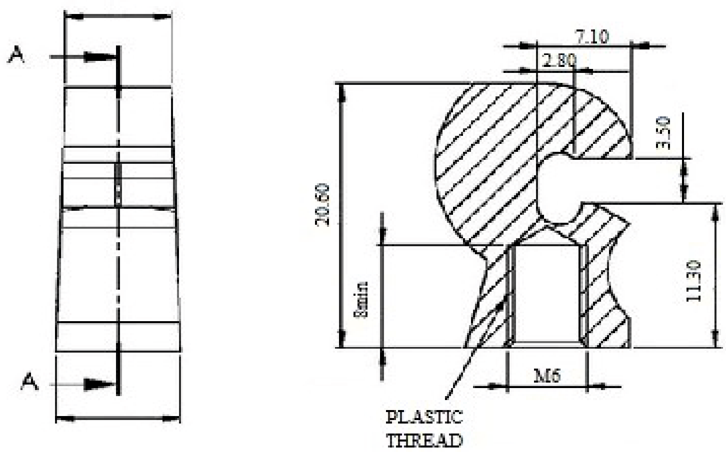
P/N 03-216-00

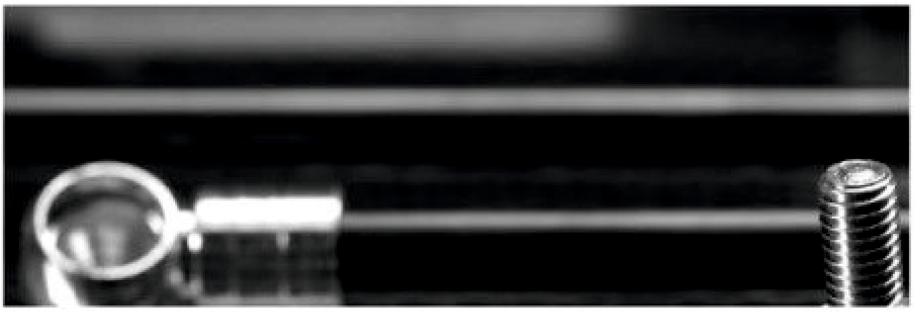




P/N 03-225-00

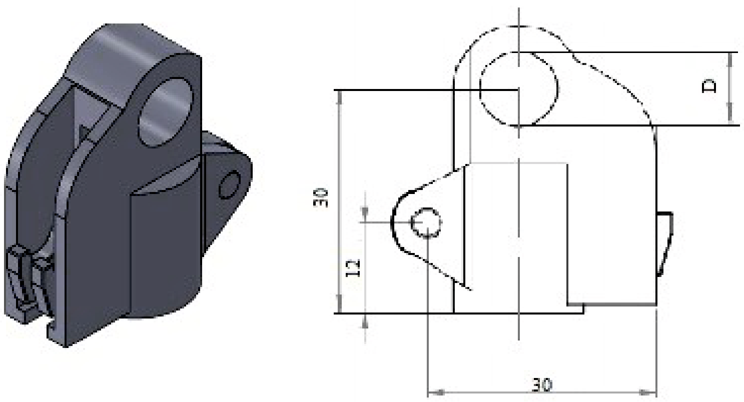




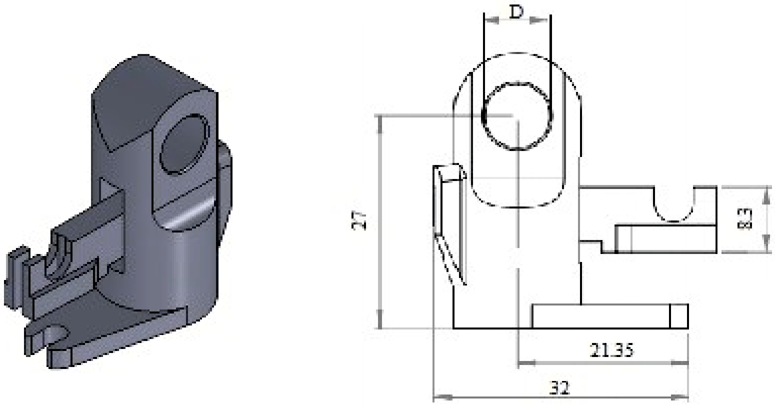


3.3 MECHANISMS FOR LOCKABLE TYPE GAS SPRINGS

KM Gas springs SUSPENSIONS

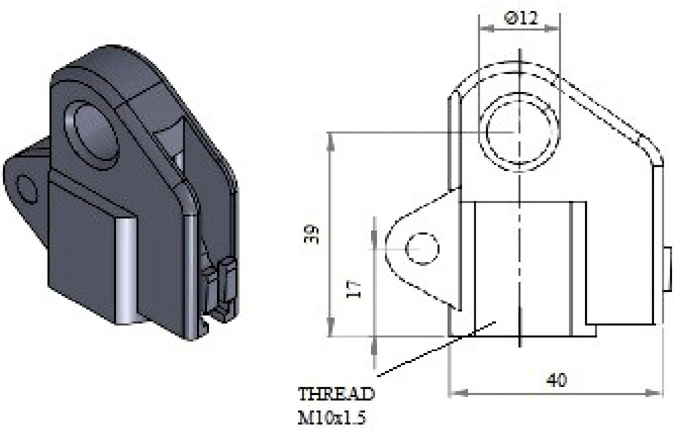


P/N	THREAD SIZE	D+0.1 mm
09-266-30	M8	8.1
09-266-31	M8	10.1
09-266-60	M10x1	8.1
09-266-61	M10x1	10.1

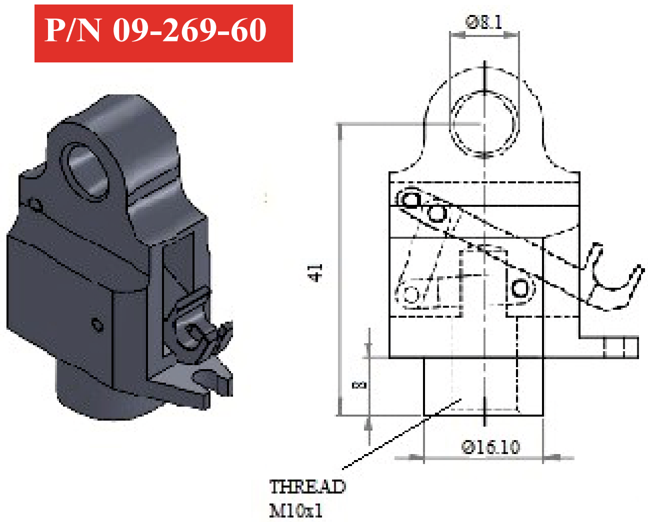


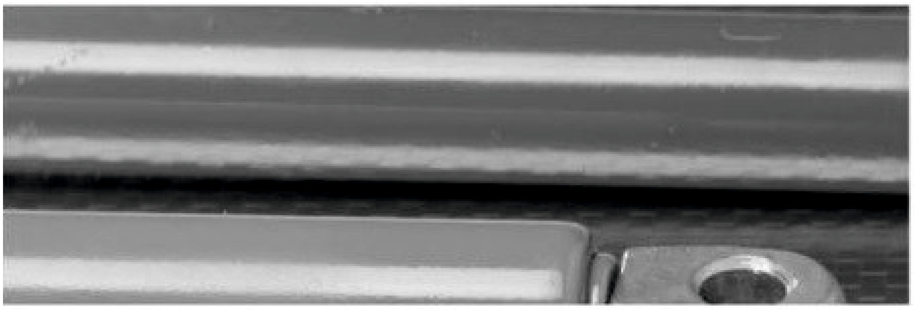
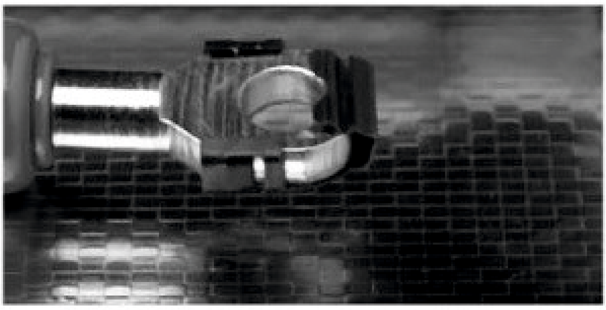
P/N	THREAD SIZE	D+0.1 mm
09-268-30	M8	8.1
09-268-31	M8	10.1
09-268-60	M10x1	8.1
09-268-61	M10x1	10.1

P/N 09-267-60



P/N 09-269-60



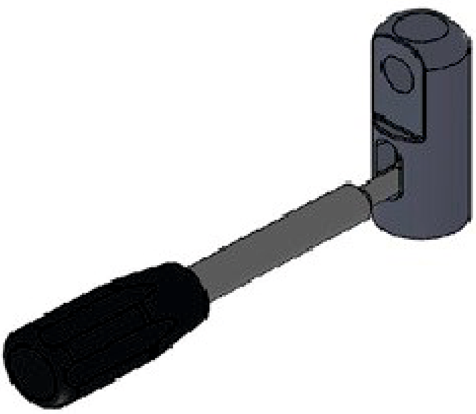
PUSH BUTTON

PEDAL

LEVER 1

LEVER 2

LEVER 3



LEVER 4

Gas springs
SUSPENSIONS

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