

### FEATURES

Good resistance to corrosive elements (barrel and stainless steel rod)

### GENERAL

<b>Detection</b>	Equipped for magnetic position detectors
<b>Fluid</b>	Air or neutral gas, filtered, lubricated or not
<b>Operating pressure</b>	2 to 10 bar
<b>Ambient temperature</b>	10°C to +70°C
<b>Standards</b>	ISO 6432 - 8140 - 8139 CETOP RP 52 P - RP 102 P - RP 103 P AFNOR NF E 49-030

**Minimum pressure to compress the spring : 2 bar**

**The return of the piston rod must be without load**

### CONSTRUCTION

<b>Barrel</b>	Non-magnetic stainless steel
<b>Rod</b>	Stainless steel
<b>Front and rear covers</b>	Anodised light alloy
<b>Piston</b>	POM (polyacetal) and light alloy equipped with permanent magnet
<b>Piston seals</b>	PUR (polyurethane)
<b>Neck nut</b>	Galvanized steel
<b>Rod nut</b>	Galvanized steel
<b>Dismounting</b>	Cannot be dismounted
<b>Cushioning</b>	Without cushioning



**B**

### SPECIFICATIONS

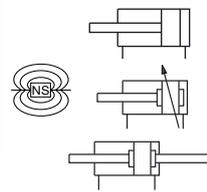
Ø (mm)	stroke (mm)	rod returned at rest (SER) 		rod out at rest (SES) 		connection Ø
		catalogue number	reference	catalogue number	reference	
<b>Single acting cylinder equipped for detectors  *</b>						
8	25	43500258	C 8 AS 25 - SER/DM	-	-	M5
	50	43500259	C 8 AS 50 - SER/DM	-	-	
10	25	43500260	C 10 AS 25 - SER/DM	-	-	M5
	50	43500261	C 10 AS 50 - SER/DM	-	-	
12	25	43500262	C 12 AS 25 - SER/DM	43500218	C 12 AS 25 - SES/DM	M5
	50	43500263	C 12 AS 50 - SER/DM	43500219	C 12 AS 50 - SES/DM	
16	25	43500264	C 16 AS 25 - SER/DM	43500220	C 16 AS 25 - SES/DM	M5
	50	43500265	C 16 AS 50 - SER/DM	43500221	C 16 AS 50 - SES/DM	
20	25	43500266	C 20 AS 25 - SER/DM	43500222	C 20 AS 25 - SES/DM	G 1/8
	50	43500267	C 20 AS 50 - SER/DM	43500223	C 20 AS 50 - SES/DM	
25	25	43500268	C 25 AS 25 - SER/DM	43500224	C 25 AS 25 - SES/DM	G 1/8
	50	43500269	C 25 AS 50 - SER/DM	43500225	C 25 AS 50 - SES/DM	

\* The magnetic position detectors must be ordered separately : "T" model (see page P291), reed switch or magneto-resistive type

### MOUNTINGS (see page 3)

### OPTIONS

- Other strokes on request
- Overlength piston rod : 995003
- Through rod: consult us



### FEATURES

- Good resistance to corrosive elements (barrel and stainless steel rod)

### GENERAL

<b>Detection</b>	Equipped for magnetic position detectors *
<b>Fluid</b>	Air or neutral gas, filtered, lubricated or not
<b>Operating pressure</b>	10 bar max.
<b>Ambient temperature</b>	-10°C to +70°C
<b>Standards</b>	ISO 6432 - 8140 - 8139 CETOP RP 52 P - RP 102 P - RP 103 P AFNOR NF E 49-030

### CONSTRUCTION

<b>Barrel</b>	Non-magnetic stainless steel
<b>Rod</b>	Stainless steel
<b>Front and rear covers</b>	Anodized light alloy
<b>Piston</b>	POM (polyacetal) and light alloy equipped with permanent magnet
<b>Piston seals</b>	PUR (polyurethane)
<b>Neck nut</b>	Galvanized steel
<b>Rod nut</b>	Galvanized steel
<b>Dismounting</b>	Cannot be dismounted
<b>Cushioning</b>	With or without cushioning



Cushioning length:  
Ø 16 mm = 12,5 mm  
Ø 20 mm = 17,5 mm  
Ø 25 mm = 18 mm

### SPECIFICATIONS

Ø (mm)	stroke (mm)	single rod		through rod		connection Ø
		code	reference	code	reference	
<b>Double acting cylinder with elastic cushioning equipped for detectors</b> *						
8	25	43500291	C 8 AS 25-DM	-	-	M5
	50	43500292	C 8 AS 50-DM			
	80	43500293	C 8 AS 80-DM			
	100	43500294	C 8 AS 100-DM			
	to be defined	43550335 ... <sup>(1)</sup>	C 8 AS ...-DM			
10	25	43500296	C 10 AS 25-DM	-	-	M5
	50	43500297	C 10 AS 50-DM			
	80	43500298	C 10 AS 80-DM			
	100	43500299	C 10 AS 100-DM			
	to be defined	43550336 ... <sup>(1)</sup>	C 10 AS ...-DM			
12	25	43500301	C 12 AS 25-DM	-	-	M5
	50	43500302	C 12 AS 50-DM			
	80	43500303	C 12 AS 80-DM			
	100	43500304	C 12 AS 100-DM			
	to be defined	43550182 ... <sup>(1)</sup>	C 12 AS ...-DM			
16	25	43500305	C 16 AS 25-DM	435500280025	C 16 AS 25- DM-T2	M5
	50	43500306	C 16 AS 50-DM	435500280050	C 16 AS 50- DM-T2	
	80	43500307	C 16 AS 80-DM	435500280080	C 16 AS 80- DM-T2	
	100	43500308	C 16 AS 100-DM	435500280100	C 16 AS100- DM-T2	
	to be defined	43550183 ... <sup>(1)</sup>	C 16 AS ...-DM	43550028 ... <sup>(1)</sup>	C 16 AS ...- DM-T2	
20	25	43500309	C 20 AS 25-DM	435500290025	C 20 AS 25- DM-T2	G 1/8
	50	43500310	C 20 AS 50-DM	435500290050	C 20 AS 50- DM-T2	
	80	43500311	C 20 AS 80-DM	435500290080	C 20 AS 80- DM-T2	
	100	43500312	C 20 AS 100-DM	435500290100	C 20 AS100- DM-T2	
	to be defined	43550184 ... <sup>(1)</sup>	C 20 AS ...-DM	43550029 ... <sup>(1)</sup>	C 20 AS ...- DM-T2	
25	25	43500313	C 25 AS 25-DM	435500300025	C 25 AS 25- DM-T2	G 1/8
	50	43500314	C 25 AS 50-DM	435500300050	C 25 AS 50- DM-T2	
	80	43500315	C 25 AS 80-DM	435500300080	C 25 AS 80- DM-T2	
	100	43500316	C 25 AS 100-DM	435500300100	C 25 AS100- DM-T2	
	160	43500317	C 25 AS 160-DM	435500300160	C 25 AS160- DM-T2	
to be defined	43550185 ... <sup>(1)</sup>	C 25 AS ...-DM	43550030 ... <sup>(1)</sup>	C 25 AS ...- DM-T2		

<sup>1)</sup> Indicate stroke (in mm)

\* **The magnetic position detectors must be ordered separately :**  
- "T" model (see page P291), reed switch or magneto-resistive type  
- ATEX "T" model (see page P1054)

## SPECIFICATIONS

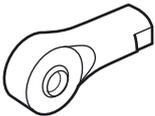
Ø (mm)	course (mm)	single rod		through rod		Ø raccordement
		code	reference	code	reference	
<b>Double acting cylinder with pneumatic cushioning equipped for detectors</b>  *						
16	25	<b>435507060025</b>	C 16 A 25-DM	<b>435507190025</b>	C 16 A 25-DM	M5
	50	<b>435507060050</b>	C 16 A 50-DM	<b>435507190050</b>	C 16 A 50-DM	
	80	<b>435507060080</b>	C 16 A 80-DM	<b>435507190080</b>	C 16 A 80-DM	
	100	<b>435507060100</b>	C 16 A 100-DM	<b>435507190100</b>	C 16 A 100-DM	
	to be defined	<b>43550706 . . . .<sup>(1)</sup></b>	C 16 A ...-DM	<b>43550719 . . . .<sup>(1)</sup></b>	C 16 A ...-DM	
20	25	<b>43500423</b>	C 20 A 25-DM	<b>435507200025</b>	C 20 A 25-DM	G 1/8
	50	<b>43500424</b>	C 20 A 50-DM	<b>435507200050</b>	C 20 A 50-DM	
	80	<b>43500425</b>	C 20 A 80-DM	<b>435507200080</b>	C 20 A 80-DM	
	100	<b>43500426</b>	C 20 A 100-DM	<b>435507200100</b>	C 20 A 100-DM	
	to be defined	<b>43550451 . . . .<sup>(1)</sup></b>	C 20 A ...-DM	<b>43550720 . . . .<sup>(1)</sup></b>	C 20 A ...-DM	
25	25	<b>43500432</b>	C 25 A 25-DM	<b>435507210025</b>	C 25 A 25-DM	G 1/8
	50	<b>43500433</b>	C 25 A 50-DM	<b>435507210050</b>	C 25 A 50-DM	
	80	<b>43500434</b>	C 25 A 80-DM	<b>435507210080</b>	C 25 A 80-DM	
	100	<b>43500435</b>	C 25 A 100-DM	<b>435507210100</b>	C 25 A 100-DM	
	160	<b>43500436</b>	C 25 A 160-DM	<b>435507210160</b>	C 25 A 160-DM	
to be defined	<b>43550452 . . . .<sup>(1)</sup></b>	C 25 A ...-DM	<b>43550721 . . . .<sup>(1)</sup></b>	C 25 A ...-DM		

<sup>(1)</sup> Indicate stroke (in mm)

\* **The magnetic position detectors must be ordered separately :**

- "T" model (see page P291), reed switch or magneto-resistive type
- ATEX "T" model (see page P1054)

## MOUNTINGS

Ø (mm)	catalogue number					
						
	Front or rear flange MF8	High foot (peer unit) MS3	Rear trunnion	Female rod clevis ISO 8140 - RP 102 P AP2	Spherical bearing rod end ISO 8139 - RP 103 P AP6	Neck nut MR3
8	<b>43900189</b>	<b>43900191</b>	<b>43900190</b>	<b>43900193</b>	<b>43900194</b>	<b>43900192</b>
10						
12	<b>43900179</b>	<b>43900183</b>	<b>43900181</b>	<b>43900159</b>	<b>43900186</b>	<b>43900150</b>
16						
20	<b>43900180</b>	<b>43900184</b>	<b>43900182</b>	<b>43900161</b>	<b>43900187</b>	<b>43900151</b>
25				<b>43400016</b>	<b>43400001</b>	

Each cylinder is delivered with a neck nut and a rod nut

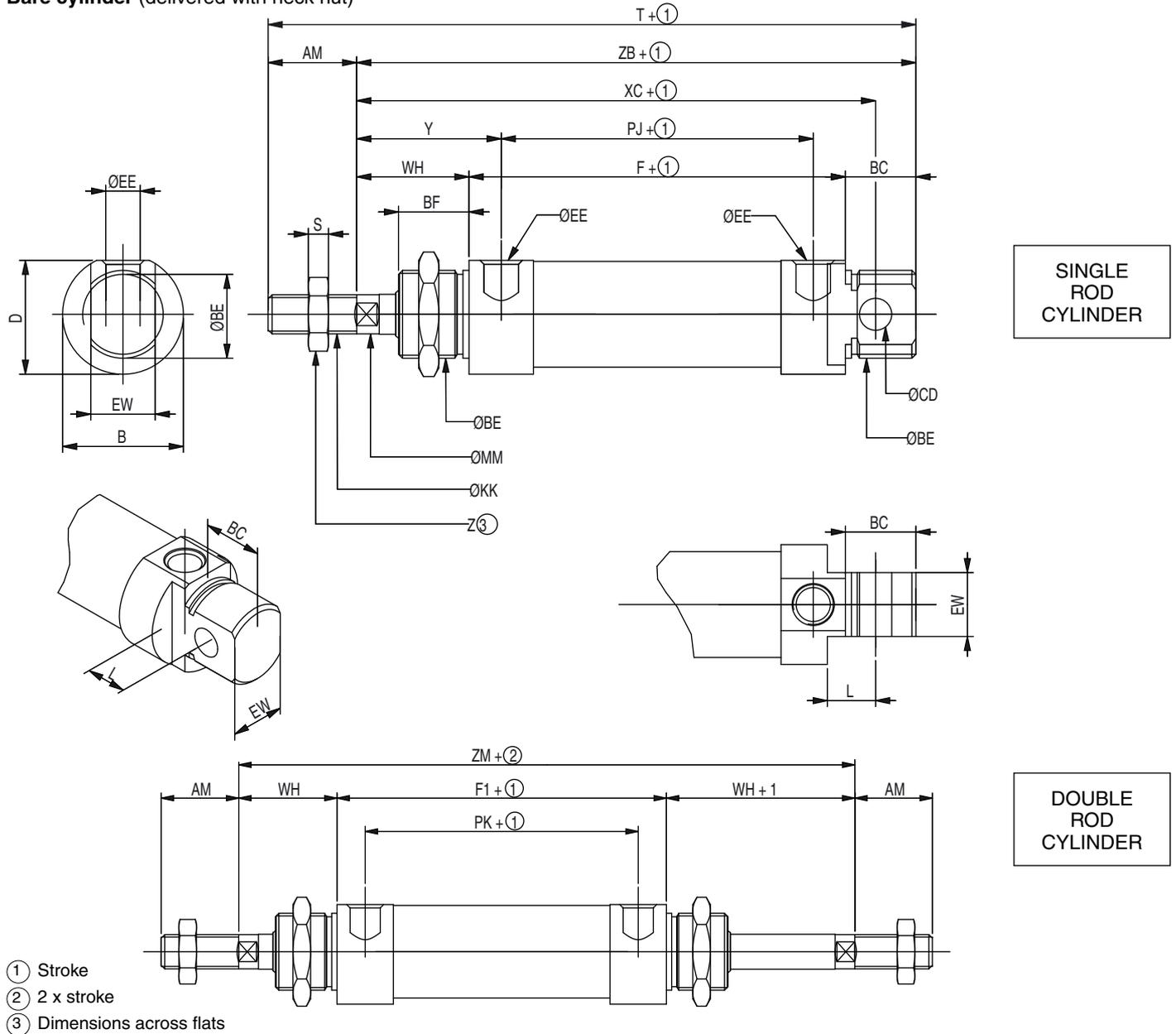
## OPTIONS

- Double crossbar for Ø 16-20-25 mm (max. stroke 300 mm)
- Anti-corrosive version, stainless steel type CIX (see page P252)
- Overlength piston rod, catalogue. n°: **995003**
- Type C cylinders, double acting, are available in versions for use in potentially **explosive dust or gas atmospheres** according to Directive 94/9/EC

Classification :  II2GD c - Ta 40°C T 135°C (T4) - Ta 70°C T 200°C (T3) (ZONE 1-21) - cat no.: **612108**

**DIMENSIONS (mm), WEIGHT (kg)** 

**Bare cylinder (delivered with neck nut)**



**SINGLE  
ROD  
CYLINDER**

**DOUBLE  
ROD  
CYLINDER**

Ø	AM	B	BC	ØBE	BF	CD	D	EE	EW	F	F1	ØKK	L	MM	PJ	PK	S	T	WH
8	12	16	12	M12x1,25	12	4 H 9	15	M5	8 d 13	46	-	M4x0,7	6	4	34	-	2	86	16
10	12	16	12	M12x1,25	12	4 H 9	15	M5	8 d 13	46	-	M4x0,7	6	4	34	-	2	86	16
12	16	19	14	M16x1,5	14	6 H 11	18	M5	12 d 11	48,5	48,5	M6x1	9	6	34,5	34,5	3	100,3	22
16	16	19	14	M16x1,5	14	6 H 11	18	M5	12 d 11	55	55	M6x1	9	6	41,5	41,5	3	107	22
20	20	27	17,5	M22x1,5	17,5	8 H 11	25,4	G 1/8	16 d 11	63,5	63,5	M8x1,25	12	8	47,3	47,3	4	125	24
25	22	30	17,5	M22x1,5	17,5	8 H 11	28,5	G 1/8	16 d 11	68,5	68,5	M10x1,25	12	10	52,5	52,5	5	136	28

Ø	XC	Y	Z	ZB	ZM	weight	
						(4)	(5)
8	64	22	7	74	-	0,030	0,020
10	64	22	7	74	-	0,030	0,040
12	75	29	10	84,5	82,5	0,070	0,090
16	82	28,5	10	91	99	0,100	0,100
20	95	32	13	105	111,5	0,170	0,160
25	104	36	17	114	124,5	0,200	0,200

(4) Cylinder weight with 0 mm stroke.  
(5) Weight to be added per additional 100 mm length.

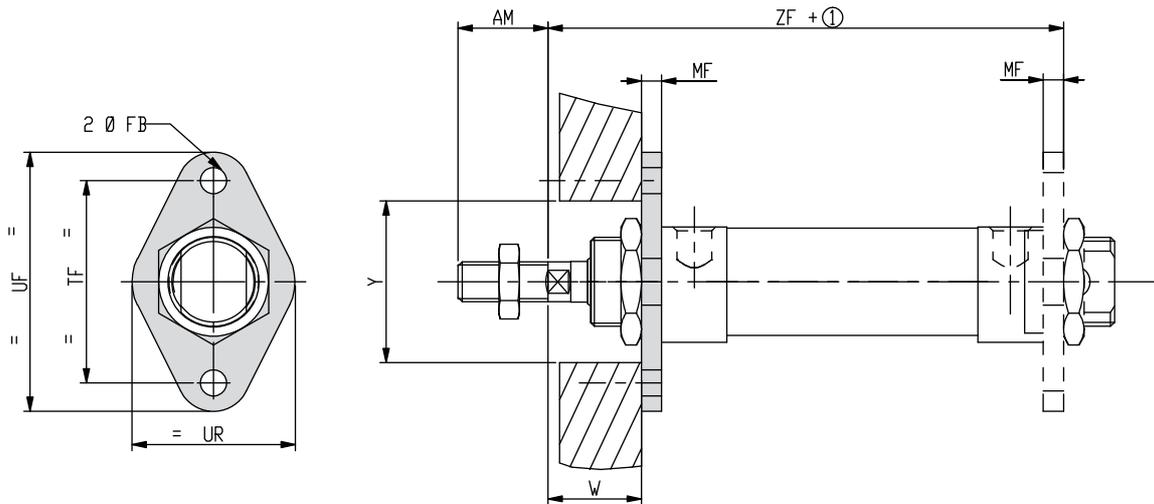
**NOTE:**

- Single and double acting cylinders Ø 8 to 25 mm have the same dimensions.
- The length of the SES version is **twice** the nominal stroke.
- The mountings are always delivered separately.

**DIMENSIONS (mm), WEIGHT (kg)**

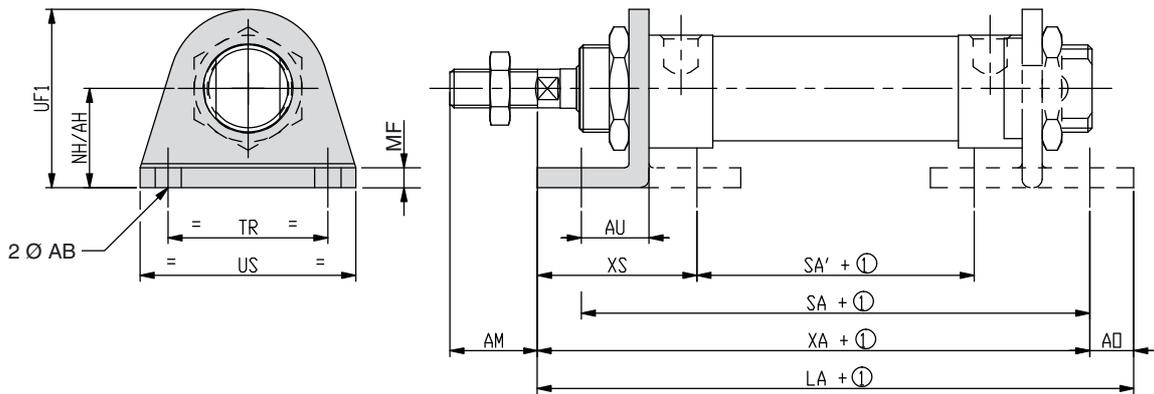


**Front or rear mounting flange - MF8**



### High foot mounting - MS3

Foot mountings are supplied in single units, not in pairs.



① Stroke

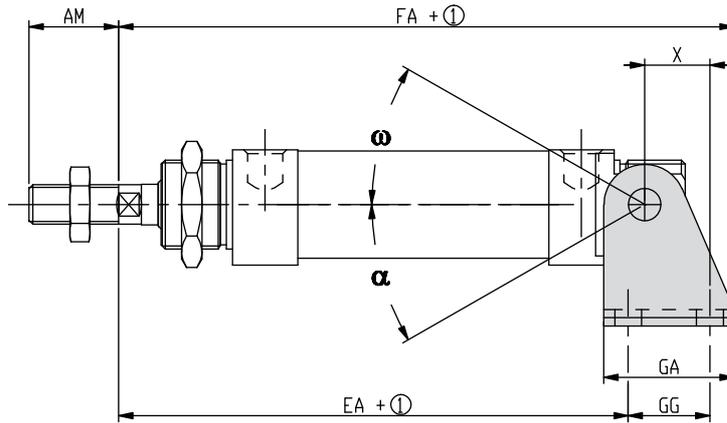
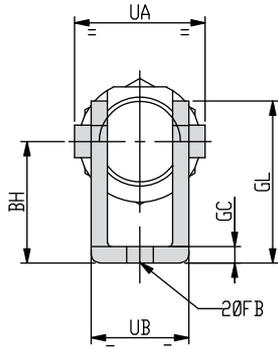
Ø	AM	AO	AU	ØAB ØFB	XA	LA	MF	NH AH	SA	SA'	TF	TR	UR	UF	UF1	US	W	XS	Y	ZF
8	12	5	11	4,5	73	78	3	16	68	30	30	25	22	40	26	35	13	24	22	65
10	12	5	11	4,5	73	78	3	16	68	30	30	25	22	40	26	35	13	24	22	65
12	16	6	14	5,5	84,5	90,5	4	20	76,5	28,5	40	32	30	52	32	42	18	32	22	74,5
16	16	6	14	5,5	91	97	4	20	83	35	40	32	30	52	32	42	18	32	22	81,0
20	20	9	17	6,6	104,5	113,5	5	25	97,5	39,5	50	40	40	64	45	54	19	36	31	92,5
25	22	9	17	6,6	113,5	122,5	5	25	102,5	44,5	50	40	40	64	45	54	23	40	31	101,5

Ø	weight	
	front or rear flange	foot
8	0,020	0,030
10	0,020	0,030
12	0,020	0,050

Ø	weight	
	front or rear flange	foot
16	0,020	0,050
20	0,040	0,100
25	0,040	0,100

**DIMENSIONS (mm), WEIGHT (kg)**

**Rear trunnion mounting**



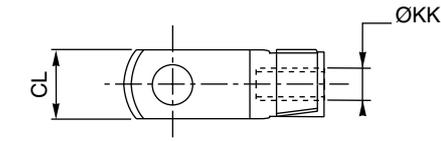
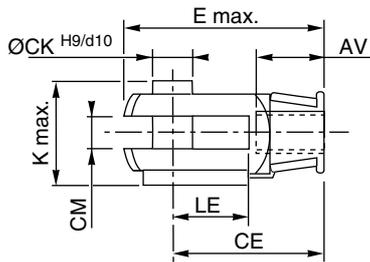
① Stroke

Ø	AM	BH	EA	FA	FB	GA	GC	GG	GL	UA	UB	X	α	ω	weight (kg) rear trunnion
8	12	24	62,7	79	4,5	20	2,5	12,5	29	18	13	11,2	7°	160°	0,020
10	12	24	62,7	79	4,5	20	2,5	12,5	29	18	13	11,2	7°	160°	0,020
12	16	27	72,5	93	5,5	25	3	16	34	25	18	13,5	50°	180°	0,050
16	16	27	79,5	100	5,5	25	3	16	34	25	18	13,5	47°	180°	0,050
20	20	30	91	117	6,6	32	4	20	40	32	24	16	8°	168°	0,080
25	22	30	100	126	6,6	32	4	20	40	32	24	16	8°	168°	0,080

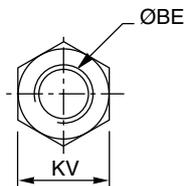
**DIMENSIONS (mm), WEIGHT (kg)**

**Female rod clevis - AP2**

ISO 8140 - RP 102 P

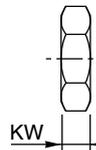
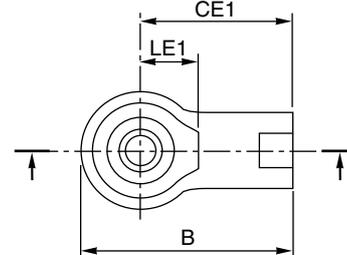
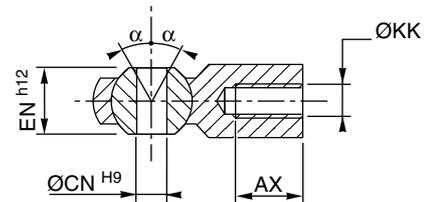


**Neck nut - MR3**



**Spherical bearing rod end - AP6**

ISO 8139 - RP 103 P



Ø	AV - AX	B	ØBE	CE	CE1	ØCK	CL	CM	ØCN	E	EN	K	ØKK	KV	KW	LE	LE1	α
8	8	36	M12x1,25	16	27	4	8	4 <sup>+0,4</sup> <sub>+0,1</sub>	5	22,5	8	11	M4x0,7	19	6	8	10	4°
10	8	36	M12x1,25	16	27	4	8	4 <sup>+0,4</sup> <sub>+0,1</sub>	5	22,5	8	11	M4x0,7	19	6	8	10	4°
12	12	40	M16x1,5	24	30	6	12	6 <sup>+0,4</sup> <sub>+0,1</sub>	6	33,5	9	16,5	M6x1	19	4	12	11	4°
16	12	40	M16x1,5	24	30	6	12	6 <sup>+0,4</sup> <sub>+0,1</sub>	6	33,5	9	16,5	M6x1	19	4	12	11	4°
20	15	48	M22x1,5	32	36	8	16	8 <sup>+0,5</sup> <sub>+0,15</sub>	8	45	12	22	M8x1,25	27	5	16	13	4°
25	20	57	M22x1,5	40	43	10	20	10 <sup>+0,5</sup> <sub>+0,15</sub>	10	56	14	26	M10x1,25	27	5	20	15	4°

Ø	weight		
	female clevis	male clevis	nut
8	0,010	0,020	0,010
10	0,010	0,020	0,010
12	0,020	0,030	0,010

Ø	weight		
	female clevis	male clevis	nut
16	0,020	0,030	0,010
20	0,050	0,050	0,010
25	0,100	0,070	0,010