

FEATURES

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

GENERAL

Detection	Equipped for magnetic position detectors
Fluid	Air or neutral gas, filtered, lubricated or not
Operating pressure	2 to 10 bar
Ambient temperature	10°C to +70°C
Standards	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

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



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SPECIFICATIONS

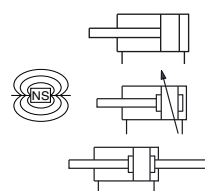
Ø (mm)	stroke (mm)	rod returned at rest (SER) 		rod out at rest (SES) 		connection Ø
		catalogue number	reference	catalogue number	reference	
Single acting cylinder equipped for detectors  *						
8	25	43500258	C 8 AS 25 - SER/DM	—	—	M5
	50	43500259	C 8 AS 50 - SER/DM			
10	25	43500260	C 10 AS 25 - SER/DM	—	—	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

Detection

Equipped for magnetic position detectors *

Fluid

Air or neutral gas, filtered, lubricated or not

Operating pressure

10 bar max.

Ambient temperature

-10°C to +70°C

Standards

ISO 6432 - 8140 - 8139

CETOP RP 52 P - RP 102 P - RP 103 P

AFNOR NF E 49-030

CONSTRUCTION

Barrel

Non-magnetic stainless steel

Rod

Stainless steel

Front and rear covers

Anodized light alloy

Piston

POM (polyacetal) and light alloy
equipped with permanent magnet

Piston seals

PUR (polyurethane)

Neck nut

Galvanized steel

Rod nut

Galvanized steel

Dismounting

Cannot be dismounted

Cushioning

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	
Double acting cylinder with elastic cushioning equipped for detectors  *						
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 ⁽¹⁾	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 ⁽¹⁾	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 ⁽¹⁾	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 ⁽¹⁾	C 16 AS ...-DM	43550028 ⁽¹⁾	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 ⁽¹⁾	C 20 AS ...-DM	43550029 ⁽¹⁾	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 ⁽¹⁾	C 25 AS ...-DM	43550030 ⁽¹⁾	C 25 AS ...- DM-T2	

¹⁾ 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

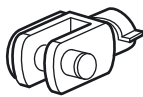
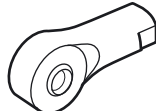
Ø (mm)	course (mm)	single rod		through rod		Ø raccordement
		code	reference	code	reference	
Double acting cylinder with pneumatic cushioning equipped for detectors  *						
16	25	435507060025	C 16 A 25-DM	435507190025	C 16 A 25-DM	M5
	50	435507060050	C 16 A 50-DM	435507190050	C 16 A 50-DM	
	80	435507060080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

⁽¹⁾ 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	43900189	43900191	43900190	43900193	43900194	43900192
10						
12				43900159	43900186	43900150
16						
20	43900180	43900184	43900182	43900161	43900187	43900151
25				43400016	43400001	

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

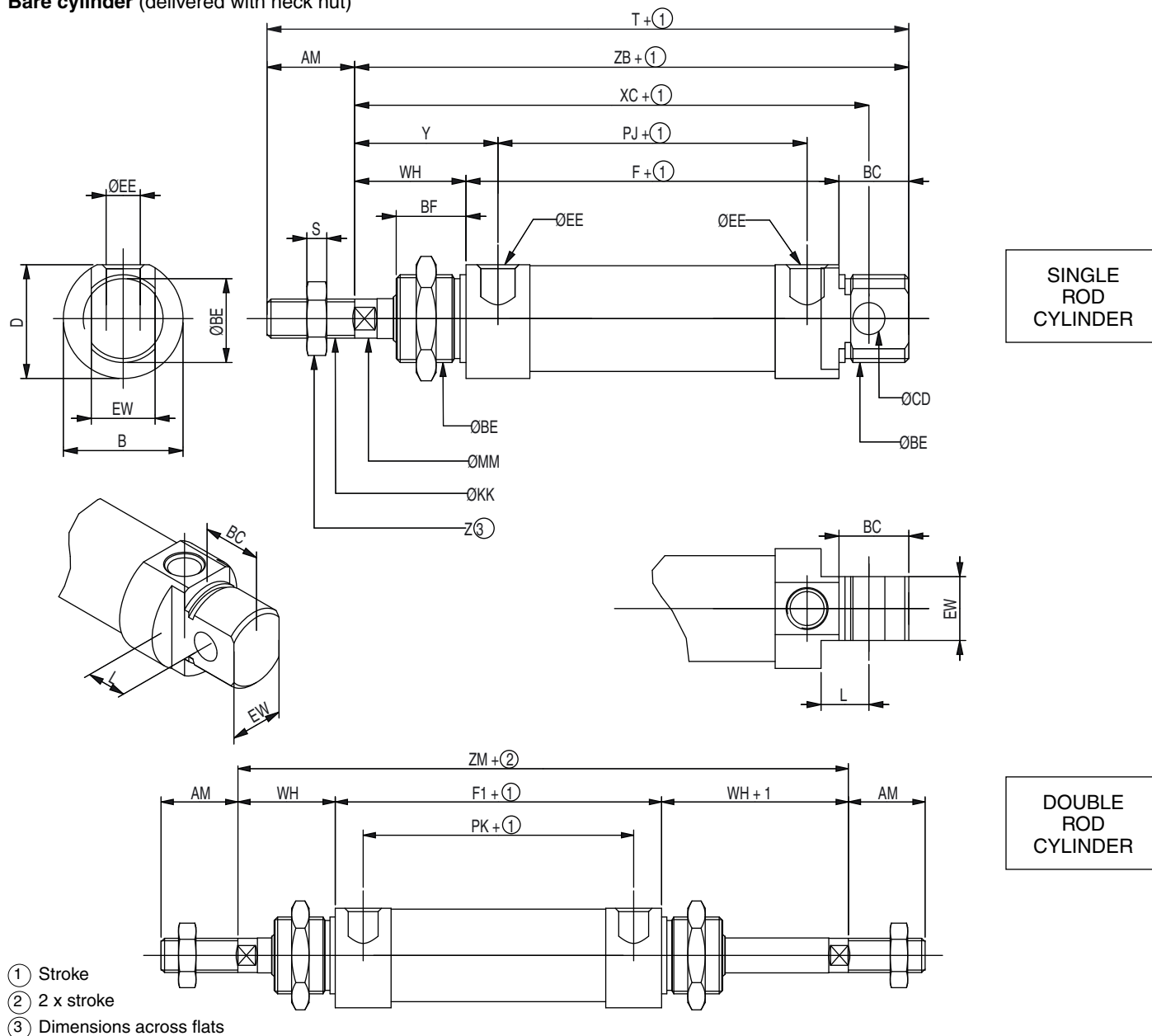
OPTIONS

- 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)



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.

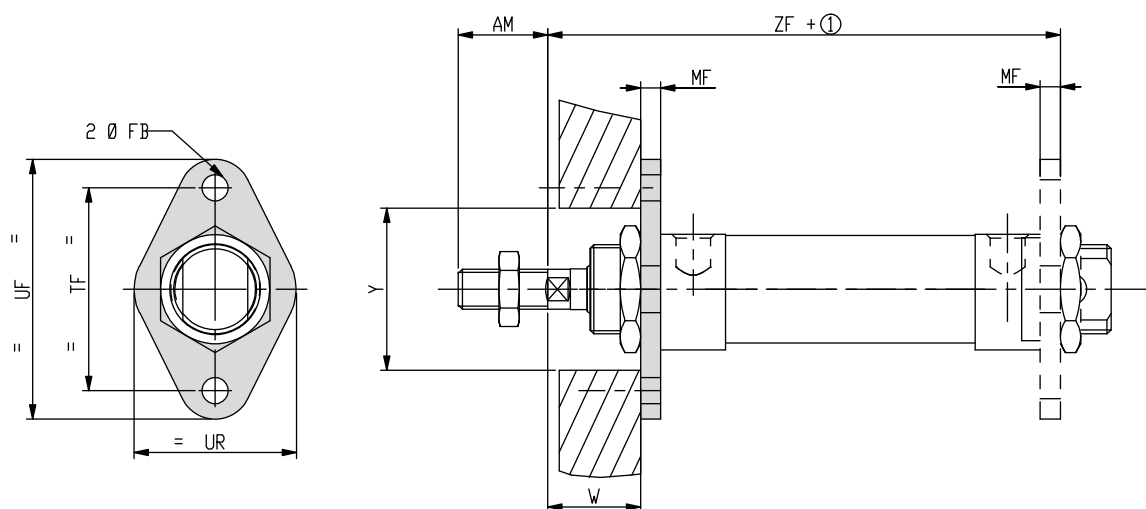
NOTE:

- 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)

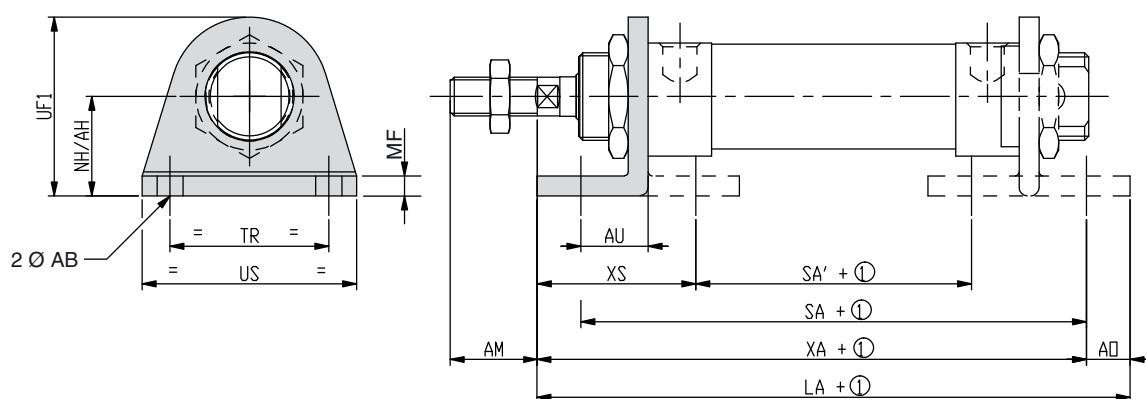


Front or rear mounting flange - MF8



High foot mounting - MS3

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



① Stroke

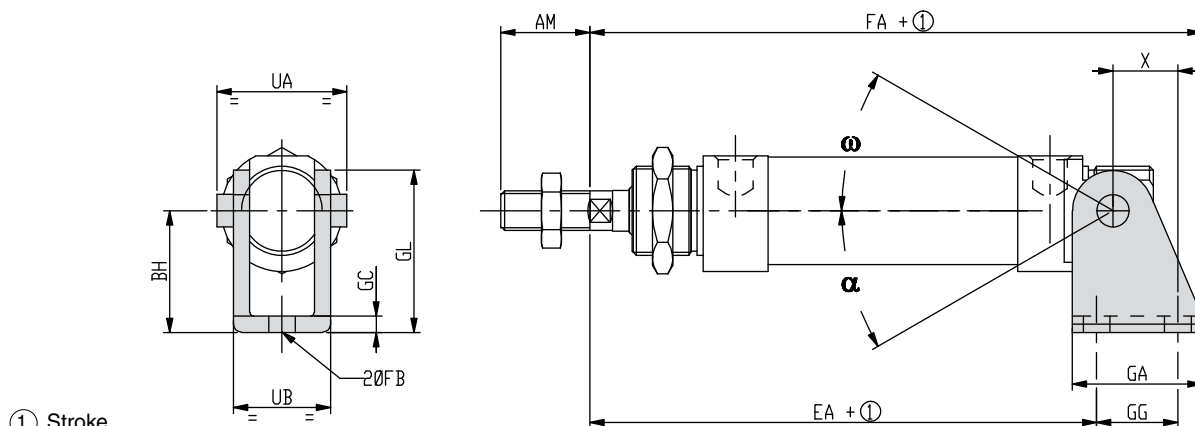
Ø	AM	AO	AU	ØAB ØFB	XA	LA	MF	NH AH	SA	SA'	TF	TR	UR	UF	UF1	US	W	XS	Y	ZF
8	12	5	11	4,5	73	78	3	16	68	30	30	25	22	40	26	35	13	24	22	65
10	12	5	11	4,5	73	78	3	16	68	30	30	25	22	40	26	35	13	24	22	65
12	16	6	14	5,5	84,5	90,5	4	20	76,5	28,5	40	32	30	52	32	42	18	32	22	74,5
16	16	6	14	5,5	91	97	4	20	83	35	40	32	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

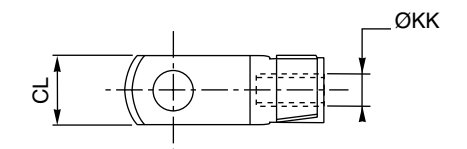
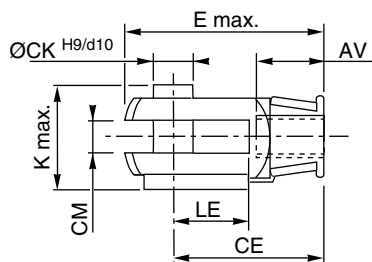


Ø	AM	BH	EA	FA	FB	GA	GC	GG	GL	UA	UB	X	α	ω	weight (kg) rear trunnion
8	12	24	62,7	79	4,5	20	2,5	12,5	29	18	13	11,2	7°	160°	0,020
10	12	24	62,7	79	4,5	20	2,5	12,5	29	18	13	11,2	7°	160°	0,020
12	16	27	72,5	93	5,5	25	3	16	34	25	18	13,5	50°	180°	0,050
16	16	27	79,5	100	5,5	25	3	16	34	25	18	13,5	47°	180°	0,050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

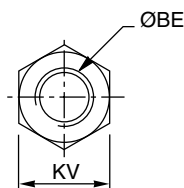
DIMENSIONS (mm), WEIGHT (kg)

Female rod clevis - AP2

ISO 8140 - RP 102 P

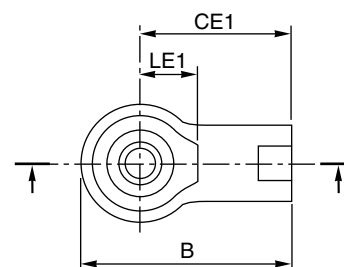
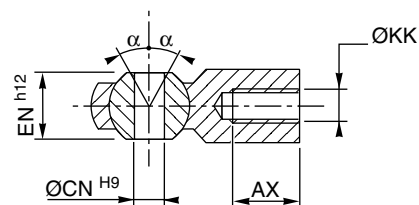


Neck nut - MR3



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 +0,4 +0,1	5	22,5	8	11	M4x0,7	19	6	8	10	4°
10	8	36	M12x1,25	16	27	4	8	4 +0,4 +0,1	5	22,5	8	11	M4x0,7	19	6	8	10	4°
12	12	40	M16x1,5	24	30	6	12	6 +0,4 +0,1	6	33,5	9	16,5	M6x1	19	4	12	11	4°
16	12	40	M16x1,5	24	30	6	12	6 +0,4 +0,1	6	33,5	9	16,5	M6x1	19	4	12	11	4°
20	15	48	M22x1,5	32	36	8	16	8 +0,5 +0,15	8	45	12	22	M8x1,25	27	5	16	13	4°
25	20	57	M22x1,5	40	43	10	20	10 +0,5 +0,15	10	56	14	26	M10x1,25	27	5	20	15	4°

Ø	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	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