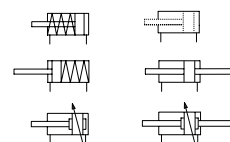


JOUCOMATIC

ISOCLAIR ROUND CYLINDERS

Ø 8 to 25 mm

single or double acting



Series

435

Type

C-AS/DM

C-A/DM

FEATURES

- Excellent resistance to corrosive media (stainless steel barrel and rod)
- Mountings integrated in the front and MP4 cap in the rear cover for trunnion mounting
- Compact threaded mount for direct attachment of front or rear covers on machine
- Double acting cylinders with or without pneumatic cushioning

GENERAL

Detection

Equipped for magnetic position detectors

Operating pressure

Single acting ⁽¹⁾

2 to 10 bar [1 bar = 100 kPa]

Double acting

10 bar max.

Ambient temperature

-20°C to +70°C

Standards

ISO 6432 - 8140 - 8139

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

AFNOR NF E 49-030

fluids (*)	temperature range (TS)	seal materials (*)
air or inert gas filtered at 50 µm, lubricated or not	- 10°C to + 80°C	NBR (nitrile) FPM (fluoroelastomer)

⁽¹⁾ Minimum pressure to compress the spring: 2 bar (The return of the piston rod must be without load)

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Barrel

Non-magnetic stainless steel

Rod

Stainless steel

Front and rear ends

Anodised light alloy

Piston

Light alloy - POM (polyacetal)

fitted with an annular permanent magnet

Piston seal

PUR (polyurethane)

CONSTRUCTION

Cushioning

With or without cushioning

Double acting

Cushioning length: Ø 16 mm/12,5 mm - Ø 20 mm/17,5 mm

Ø 25 mm/18 mm

Disassembly

Cannot be disassembled

Rod nut

Galvanised steel

Neck nut

Galvanised steel

SPECIFICATIONS

Ø (mm)	stroke (mm)	catalogue number	reference	catalogue number	reference	connection Ø
Single acting cylinder without cushioning equipped for detectors *						
			rod returned at rest (SER) 	rod out at rest (SES) 		
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	

00328GB-2012/R01
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B

SPECIFICATIONS

Ø (mm)	stroke (mm)	catalogue number	reference	catalogue number	reference	connection Ø
Double acting cylinder without cushioning equipped for detectors *						
		single rod 		through rod		
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	
Double acting cylinder with adjustable pneumatic cushioning equipped for detectors *						
16	25	435507060025	C 16 A 25-DM	435507190025	C 16 A 25- DM-T2	M5
	50	435507060050	C 16 A 50-DM	435507190050	C 16 A 50- DM-T2	
	80	435507060080	C 16 A 80-DM	435507190080	C 16 A 80- DM-T2	
	100	435507060100	C 16 A 100-DM	435507190100	C 16 A 100- DM-T2	
	to be defined	43550706.... ⁽¹⁾	C 16 A ...-DM	43550719 ... ⁽¹⁾	C 16 A ...- DM-T2	
20	25	43500423	C 20 A 25-DM	435507200025	C 20 A 25- DM-T2	G 1/8
	50	43500424	C 20 A 50-DM	435507200050	C 20 A 50- DM-T2	
	80	43500425	C 20 A 80-DM	435507200080	C 20 A 80- DM-T2	
	100	43500426	C 20 A 100-DM	435507200100	C 20 A 100- DM-T2	
	to be defined	43550451.... ⁽¹⁾	C 20 A ...-DM	43550720 ... ⁽¹⁾	C 20 A ...- DM-T2	
25	25	43500432	C 25 A 25-DM	435507210025	C 25 A 25- DM-T2	G 1/8
	50	43500433	C 25 A 50-DM	435507210050	C 25 A 50- DM-T2	
	80	43500434	C 25 A 80-DM	435507210080	C 25 A 80- DM-T2	
	100	43500435	C 25 A 100-DM	435507210100	C 25 A 100- DM-T2	
	160	43500436	C 25 A 160-DM	435507210160	C 25 A 160- DM-T2	
	to be defined	43550452.... ⁽¹⁾	C 25 A ...-DM	43550721 ... ⁽¹⁾	C 25 A ...- DM-T2	

⁽¹⁾ Indicate stroke (in mm)

⁽²⁾ The magnetic position detectors must be ordered separately:
 - "T" model (see page P291), reed switch or magneto-resistive type
 - Double acting: ATEX "T" model (see page P1054)

OPTIONS AND ACCESSORIES

- Other strokes on request. (single acting)
- Through rod: consult us (single acting)
- Anti-corrosive version, all stainless steel CIX type (see page P252)
- Overlength piston rod: catalogue number **995166**
- Type C cylinders are available in versions for use in potentially explosive dust or gas atmospheres according to Directive 94/9/EC. Classification:  II 2GD c - Ta 40°C T 135°C (T4) - Ta 70°C T 200°C (T3) (ZONE 1-21) - cat. no.: **612108**
- Double crossbar for Ø 16-20-25 mm [max. stroke 300 mm] (double acting)
- Rod lock / "U" and "H" guiding units (contact us)

INSTALLATION

- The cylinders can be mounted in any position without affecting operation
- Each cylinder is delivered with a neck nut and a rod nut
- Mountings: **catalogue number**

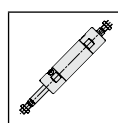
Ø (mm)	Front or rear flange MF8	High foot (per unit) AP6	Rear trunnion	female rod clevis ISO 8140 - RP 102 P AP2	spherical rod end ISO 8139 - RP 103 P AP6	front neck nut MR3
8 - 10	43900189	43900191	43900190	43900193	43900194	43900192
12 - 16	43900179	43900183	43900181	43900159	43900186	43900150
20	43900180	43900184	43900182	43900161	43900187	43900151
25	43900180	43900184	43900182	43400016	43400001	43900151

- Pipe connections G 1/8 have standard thread according to ISO 228/1
- Installation/maintenance instructions are included with each cylinder

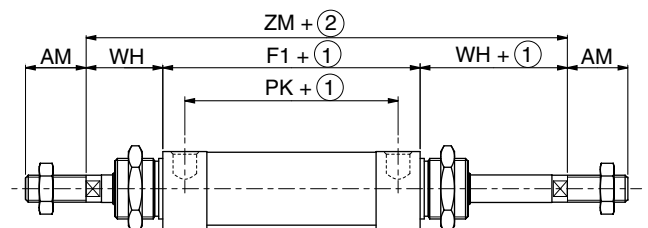
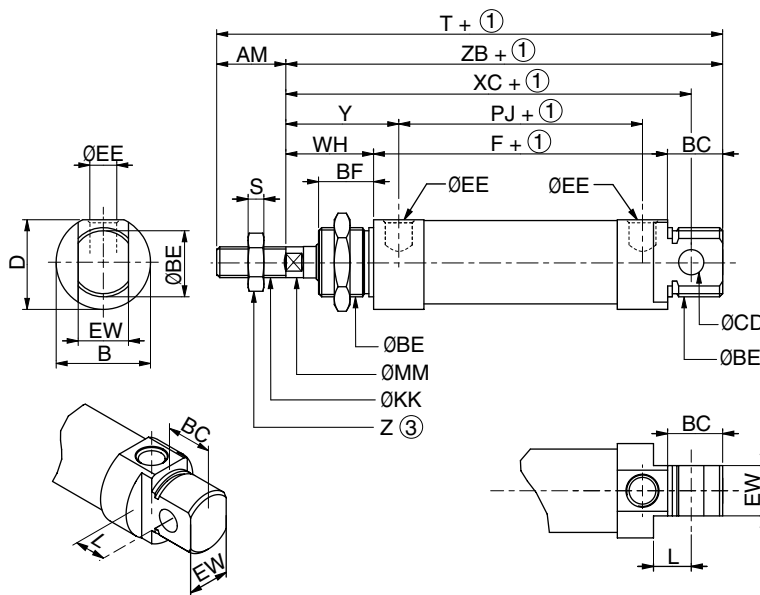
DIMENSIONS (mm), WEIGHT (kg)



SINGLE-ROD TYPE CYLINDER
Bare cylinder, single and double acting
Supplied with front cover nut
ISO 6432 - 8140 - 8139



THROUGH-ROD TYPE CYLINDER
Bare cylinder, double acting
Supplied with front cover nut
ISO 6432 - 8140 - 8139



- ① Stroke
- ② Stroke x 2
- ③ Width across flats

Ø	AM	B	BC	ØBE	BF	ØCD	D	ØEE	EW	F	F1	ØKK	L	MM	PJ	PK	S	T	WH	XC	Y
8	12	16	12	M12x1,25	12	4 H 9	15	M5	8 d 13	46	-	M4x0,7	6	4	34	-	2	86	16	64	22
10	12	16	12	M12x1,25	12	4 H 9	15	M5	8 d 13	46	-	M4x0,7	6	4	34	-	2	86	16	64	22
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	75	29
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	82	28,5
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	95	32
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	104	36

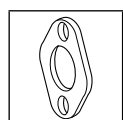
Ø	Z	ZB	ZM	weight (4) (5)	
8	7	74	-	0,030	0,020
10	7	74	-	0,030	0,040
12	10	84,5	82,5	0,070	0,090
16	10	91	99	0,100	0,100
20	13	105	111,5	0,170	0,160
25	17	114	124,5	0,200	0,200

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

NOTE:

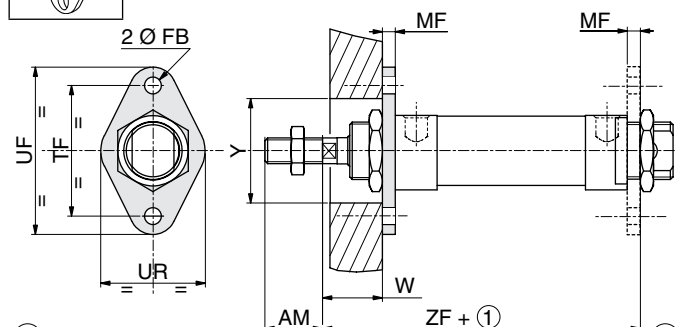
- Einfach- und doppeltwirkend Zylinder Ø 8 bis 25 mm haben dieselben Abmessungen.
- The length of the SES version is twice the nominal stroke.
- The mountings are always delivered separately

DIMENSIONS (mm), WEIGHT (kg)



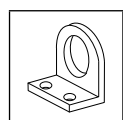
MOUNTING

Front or rear flange
MF8



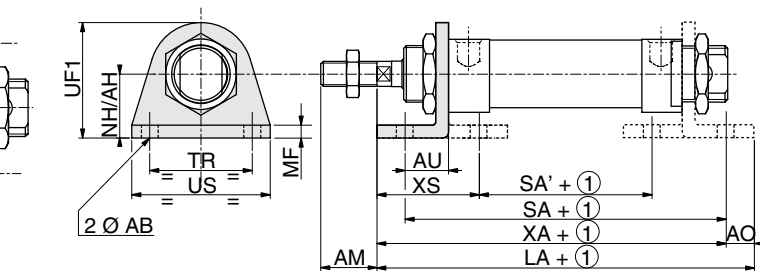
① Stroke

Ø (mm)	AM	ZF	MF	Y	W	ØFB	UF	TF	UR	weight
08	12	65	3	22	13	4,5	40	30	22	0,020
10	12	65	3	22	13	4,5	40	30	22	0,020
12	16	74,5	4	22	18	5,5	52	40	30	0,020
16	16	81,0	4	22	18	5,5	52	40	30	0,020
20	20	92,5	5	31	19	6,6	64	50	40	0,040
25	22	101,5	5	31	23	6,6	64	50	40	0,040



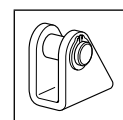
MOUNTING

High foot
Foot mounting are supplied in single units,
not in pairs
MS3



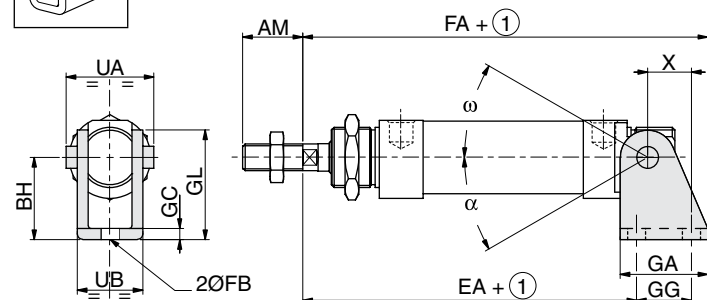
① Stroke

Ø (mm)	UF1	NH AH	TR	US	MF	ØAB	AM	AU	XS	SA	SA'	XA	LA	AO	weight
08	26	16	25	35	3	4,5	12	11	24	68	30	73	78	5	0,030
10	26	16	25	35	3	4,5	12	11	24	68	30	73	78	5	0,030
12	32	20	32	42	4	5,5	16	14	32	76,5	28,5	84,5	90,5	6	0,050
16	32	20	32	42	4	5,5	16	14	32	83	35	91	97	6	0,050
20	45	25	40	54	5	6,6	20	17	36	97,5	39,5	104,5	113,5	9	0,100
25	45	25	40	54	5	6,6	22	17	40	102,5	44,5	113,5	122,5	9	0,100



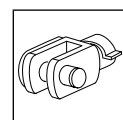
MOUNTING

Rear trunnion



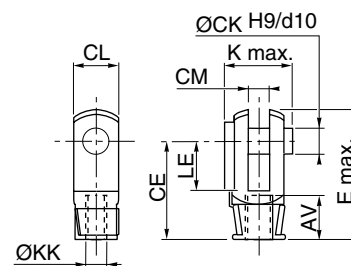
① Stroke

Ø (mm)	AM	BH	EA	FA	FB	GA	GC	GG	GL	UA	UB	X	α	ω	weight
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	20	30	100	126	6,6	32	4	20	40	32	24	16	8°	168°	0,080

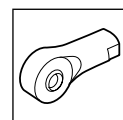


MOUNTING

Female rod clevis
ISO 8140
AP2

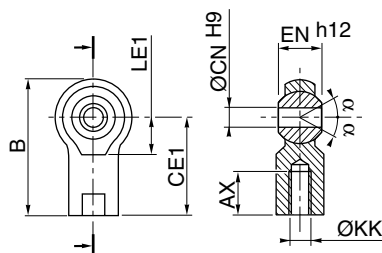


Ø (mm)	Ø CK	CM	K	AV	LE	CE	CL	ØCK	E max.	weight
8	4	4 + 0,4	11	8	8	16	8	M4x0,7	22,5	0,010
10	4	4 + 0,4	11	8	8	16	8	M4x0,7	22,5	0,010
12	6	6 + 0,4	16,5	12	12	24	12	M6x1	33,5	0,020
16	6	6 + 0,4	16,5	12	12	24	12	M6x1	33,5	0,020
20	8	8 + 0,5	22	15	16	32	16	M8x1,25	45	0,050
25	10	10 + 0,5	26	20	20	40	20	M10x1,25	56	0,100

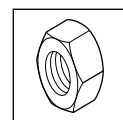


MOUNTING

Spherical rod end
ISO 8139
AP6

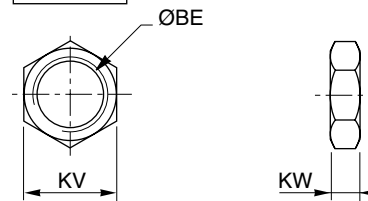


Ø (mm)	AX	B	CE1	ØCN	LE1	ØKK	EN	α	weight
8	8	36	27	5	10	M4x0,7	8	4°	0,020
10	8	36	27	5	10	M4x0,7	8	4°	0,020
12	12	40	30	6	11	M6x1	9	4°	0,030
16	12	40	30	6	11	M6x1	9	4°	0,030
20	15	48	36	8	13	M8x1,25	12	4°	0,050
25	20	57	43	10	15	M10x1,25	14	4°	0,070



MOUNTING

Front neck nut
MR3



Ø (mm)	ØBE	KV	KW	weight
8	M12x1,25	19	6	0,010
10	M12x1,25	19	6	0,010
12	M16x1,5	19	4	0,010
16	M16x1,5	19	4	0,010
20	M22x1,5	27	5	0,010
25	M22x1,5	27	5	0,010