Cylinders Series 41 Aluminium profile

Double-acting cushioned, magnetic ø160 - 200 (DIN/ISO 6431)





- » DIN/ISO 6431 VDMA 24562
- » Rolled stainless steel rod
- » Adjustable cushioning

Cylinders Series 41 with diameters 160 and 200 have been designed so as to comply with the dimensions laid down in the DIN/ISO 6431 standards. The extruded aluminium tube in this series is regarded as very aesthetically pleasing.

The mounting brackets used on the endblocks tube are designed in an extremely secure way, making use of the cylinder tie-rods positioned internally and not visible on the assembled cylinders. This cylinder series is normally equipped with adjustable cushioning.

Moreover, to reduce the noise of the impact of the piston and end-blocks, these cylinders are equipped with a mechanical cushioning.

GENERAL DATA

Type of construction with tie-rods
Operation double-acting

Materials AL end blocks and piston, rolled stainless steel AISI 420B piston rod, zinc-plated steel piston rod nut, anodized AL-profile tube,

zinc-plated steel tie-rods and tie-rod nuts, NBR rod - piston - cushion seals

Mounting with tie-rods, front flange, rear flange, feet, centre trunnion, front and rear trunnion, swivel combination

Strokes min - max 10 ÷ 2500 mm

Operating temperature $0^{\circ}\text{C} \div 80^{\circ}\text{C}$ (with dry air - 20°C)

Operating pressure 1 ÷ 10 bar

Speed 10 ÷ 500 mm/sec (without load)

Fluid filtered air, without lubrication. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication

should never be interrupted.

C CAMOZZI

STANDARD STROKES FOR DOUBLE-ACTING CYLINDERS SERIES 41

≭ = Double-acting

STAN	DARD STR	ROKES												
Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
160		×			×		×		×				×	×
200		×			×				×					

CODING	3 EXAMPLE						
41	M	2	Р	160	Α	0200	
41	SERIES						
М	VERSION M = standard mag	gnetic					
2	3 = double-acting, 4 = double-acting, 5 = double-acting,	, rear cushions				PNEUMATIC SYMBOLS CS09 CD07 CD10 CD11 CD13	
P	R = stainless stee C = rolled stainles U = rolled stainles stainless steel W = rolled stainles	ss steel AISI 303 pisto ss steel AISI 303 pisto I AISI 420B tie-rods, ss steel AISI 304 pist	15.01 stainless steel AISI 303 pn rod, stainless steel A stainless steel AISI 303 pn rod, stainless steel stainless steel AISI 303	ISI 304 piston rod nut ISI 304 piston rod nut, tie-rod nuts AISI304 piston rod nut,			
160	BORE 160 = 160 mm -	200 = 200 mm					
Α	TYPE OF DESIGN A = tie-rods F = cylinder with c						
0200	STROKE (see the	e table)					
	() = extende	s +130°C linder. Color: Grey * ed piston rod mr		se contact our technical dep	ıt.		

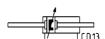
PNEUMATIC SYMBOLS

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.











ACCESSORIES FOR CYLINDERS SERIES 41



Clevis pin Mod. S



90° swivel combination Mod. ZS



Rear trunnion, male Mod. L



Front and rear flange Mod. D-E



Counter bracket for centre trunnion Mod. BF



Centre trunnion Mod. F



Foot mount Mod. B



Rod fork end Mod. G



Front and rear female trunnion Mod. C-H



Swivel ball joint Mod. GA



Swivel combination Mod. C+L+S



Piston rod lock nut Mod.



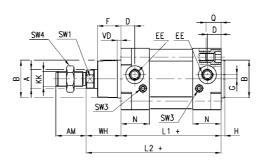
All accessories are supplied separately, except for the piston rod lock nut Mod. U

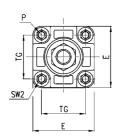


Cylinders Series 41



+ = add the stroke



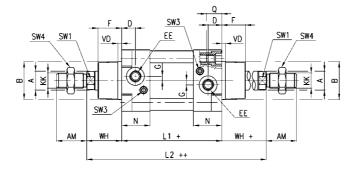


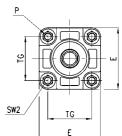
DIME	NSIO	NS																					
Ø	øΑ	KK	øΒ	D	G	F	AM	Н	EE	WH	L1+	L2+	VD	N	Р	Q	TG	Е	SW1	SW2	SW3	SW4	cushioning front/rear
160	40	M36x2	65	25	12	53.5	72	6	G3\4	80	180	260	6	45	M16	26	140	176	36	17	4	55	29 / 36
200	40	M36x2	75	25	12	63.5	72	6	G3\4	95	180	275	6	45	M16	26	175	216	36	17	4	55	44 / 42

Cylinders Series 41 - through-rod



+ = add the stroke ++ = add the stroke 2 times





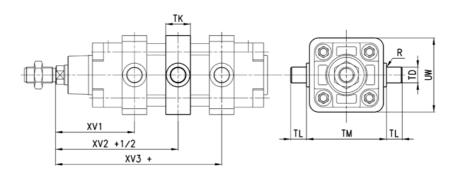
DIME	NSIO	NS																				
Ø	Α	KK	В	D	G	F	AM	EE	WH	L1+	L2++	VD	N	Р	Q	TG	Е	SW1	SW2	SW3	SW4	cushioning front/rear
160	40	M36x2	65	25	12	53.5	72	G3\4	80	180	340	6	45	M16	26	140	176	36	17	4	55	29 / 36
200	40	M36x2	75	25	12	63.5	72	G3\4	95	180	370	6	45	M16	26	175	216	36	17	4	55	44 / 42



Cylinders Series 41 with centre trunnion Mod. F



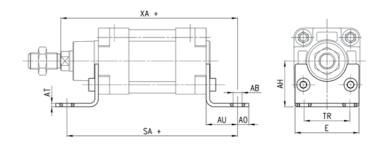
+ = add the stroke



DIMEN	SIONS								
Ø	XV1	XV2	XV3	TM	TK	TD	TL	UW	R
160	145	170	195	200	40	32	32	200	0,2
200	160	185	210	250	40	32	32	250	0,2

Foot mount Mod. B

Material: black-painted steel (cataphoresis) Supplied with: 2x feet 4x screws



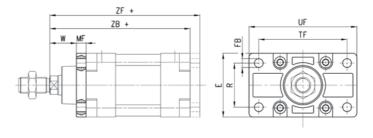
+ = add the stroke

DIMENSIONS	3									
Mod.	Ø	AT	SA+	XA+	TR	E	_ø AB	AH	AO	AU
B-41-160	160	10	300	320	115	175	18	115	20	60
B-41-200	200	11	320	345	135	215	22	135	30	70

Front and rear flange Mod. D-E

Material: Aluminium. Supplied with: 1x flange 4x screws





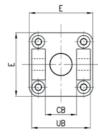
+ = add the stroke

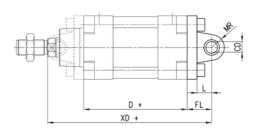
DIMENSIONS										
Mod.	Ø	W	MF	ZB+	TF	R	UF	E	_ø FB	ZF+
D-E-41-160	160	60	20	260	230	115	276	175	18	280
D-E-41-200	200	70	25	275	270	135	312	215	22	300

Front and rear female trunnion Mod. C-H

Material: Aluminium. Supplied with: 1x female trunnion 4x screws







+ = add the stroke

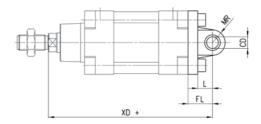
DIMENSIONS										
Mod.	Ø	_ø CD	L	FL	D+	XD+	MR	E	СВ	UB
C-H-41-160	160	30	35	55	180	315	30	175	90	170
C-H-41-200	200	30	35	60	180	335	30	215	90	170

Rear male trunnion Mod. L

Material: Aluminium Supplied with: 1x male trunnion 4x screws



(6) EW



+ = add the stroke

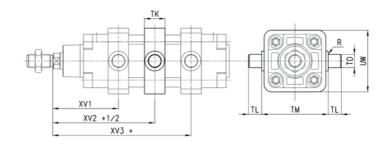
DIMENSIONS								
Mod.	Ø	_Ø CD	L	FL	XD+	MR	E	EW -0.5 -1.2
L-41-160	160	30	35	55	315	30	175	90
L-41-200	200	30	35	60	335	30	215	90

Centre trunnion Mod. F

Material: white zinc-plated steel. Supplied with: 1x centre trunnion 4x clamping elements



4x locking screws



+ = add the stroke

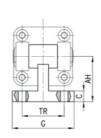
DIMENSIONS										
Mod.	Ø	XV1	XV+1/2	XV3+	TM	h	_Ø TD	TL	UW	R
F-41-160	160	145	170	195	200	40	32	32	200	0.2
F-41-200	200	160	185	210	250	40	32	32	250	0.2

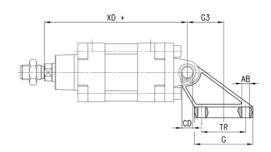
90° Swivel combination Mod. ZS*

Material: Aluminium

* not according to standard







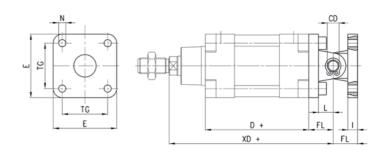
+ = add the stroke

DIMENSIO	ONS								
Mod.	Ø	TR	_ø AB	AH	С	G	_ø CD	XD+	G3
ZS-160	160	140	18	140	20	180	30	315	105
ZS-200	200	175	18	140	25	220	30	335	125

Swivel combination Mod. C+L+S



+ = add the stroke

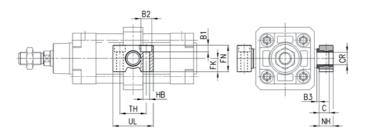


DIMENSIO	NS									
Mod.	Ø	_ø CD	L	FL	D+	XD+	TG	E	_ø N	1
C+L+S	160	30	35	55	180	315	140	175	17	20
C+L+S	200	30	35	60	180	335	175	215	17	25

Counter bracket for centre trunnion Mod. BF

Material: Aluminium. Supplied with: 2x supports





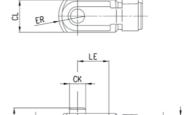
DIMENSIONS												
Mod.	Ø	_ø CR	NH	С	В3	TH	UL	FK	FN	B1	_ø B2	HB
BF-160-200	160-200	32	35	17,5	4	60	92	30	60	16	26	18

Rod fork end Mod. G

ISO 8140.

Material: zinc-plated steel.





DIMENSIONS										
Mod.	Ø	_ø CK	LE	CM	CL	ER	CE	KK	В	_ø B1
G-160-200	160-200	35	72	35	70	44	144	M36X2	92	60



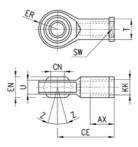


Swivel ball joint Mod. GA

ISO 8139.

Material: zinc-plated steel.





DIMENSIONS											
Mod.	Ø	_ø CN	U	EN	ER	AX	CE	KK	_Ø Τ	Z	SW
GA-160-200	160-200	35	28	43	40	56	125	M36x2	46	6	50



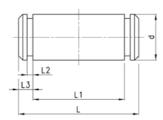
Clevis pin Mod. S

Supplied with:

1x centering pin (stainless steel

2x Seeger (steel)





DIMENSIONS						
Mod.	Ø	d	L	L1	L2	L3
S-160-200	160-200	30	179	170	1,6	4,25



Piston rod lock nut Mod. U

UNI EN ISO 4035.

Material: zinc-plated steel.







DIMENSIONS							
Mod.	Ø	D	m	SW			
U-160-200	160-200	M36x2	14	55			