

Technical details

Operating pressure	1 ... 10 bar
Temperature range	-30°C ... +80°C (0 ... +150°C for high temperature version)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Alternatively the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Cylinder tube: AISI 304 (1.4301) End caps: AISI 304 (1.4301) Piston rod: AISI 316 (1.4401) Seals: PU
	Cylinders in accordance with 2014/34/EU (ATEX) available. (Chapter 13)

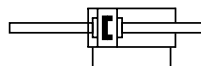


Double acting pneumatic cylinder with magnetic piston and built-in cushioning rings.

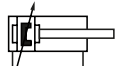
Versions



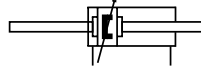
CM
double acting, with magnetic piston



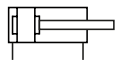
CMDE
double acting, double end piston rod, with magnetic piston



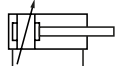
CMP
double acting, adjustable cushioning, with magnetic piston



CMPDE
double acting, double end piston rod, adjustable cushioning, with magnetic piston

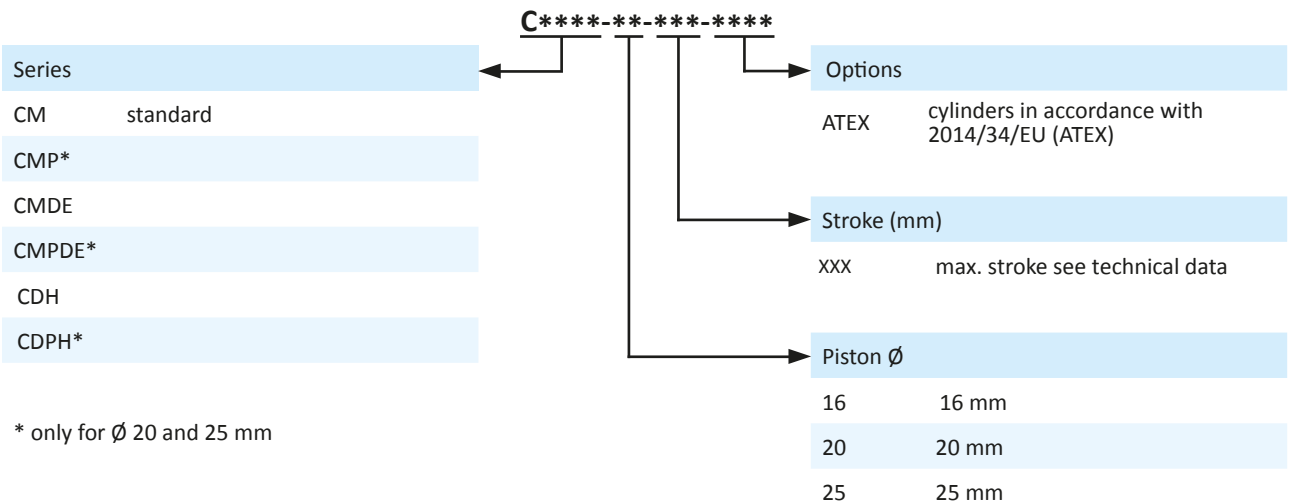


CDH
double acting, high temperature version



CDHP
double acting, adjustable cushioning, high temperature version

Order code



* only for Ø 20 and 25 mm

Series CM

Mini cylinders ISO 6432, double acting

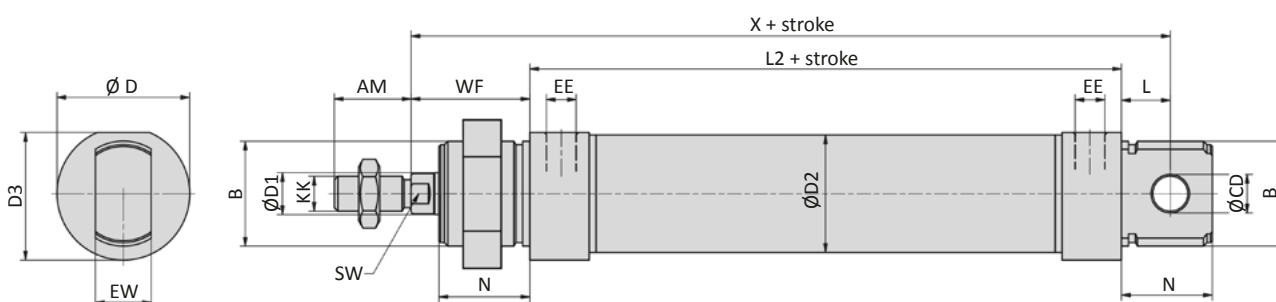


Technical data

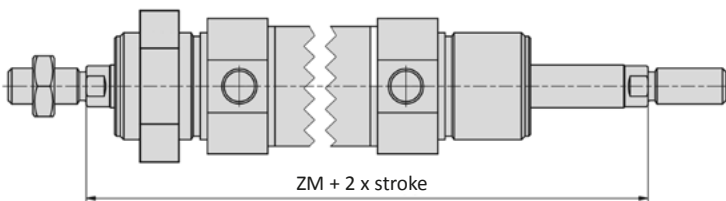
Model-no.:	Cxx-16-...	Cxx-20-...	Cxx-25-...
Piston Ø (mm)	16	20	25
Force at 6 bar (N)	Extension	109	170
	Retraction	93	142
Connection	M5	G1/8	G1/8
Piston rod thread	M6	M8	M10 x 1.25
Max. stroke (mm)	250	600	600
Cushioning length (mm)*	15.5	17	19.5

* only for series CMP, CMPDE, CDHP

Dimensions series CM, CMP, CDH, CDHP



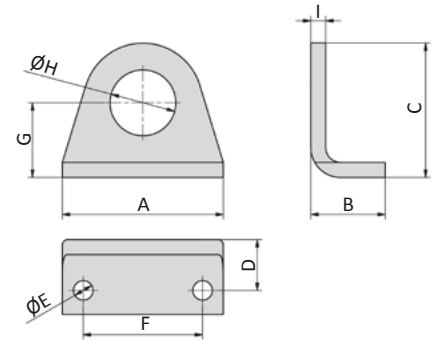
double end piston rod



Piston Ø	AM	B	Ø CD	Ø D	Ø D1	Ø D2	D3	EE
16	16	M16 x 1.5	6	19	6	17.27	18	M5
20	20	M22 x 1.5	8	27	8	21.27	25.5	G1/8
25	22	M22 x 1.5	8	30	10	26.5	28.5	G1/8

Piston Ø	EW	KK	L	L2	N	SW	WF	X	ZM
16	12	M6	9	53	18	5	22	82	97
20	16	M8	12	67	20	7	24	95	115
25	16	M10 x 1.25	12	68	22	9	28	104	124

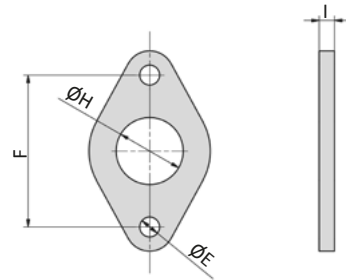
PA-xx Foot mount



Model-no.:	for cylinder \varnothing	A	B	C	D	$\varnothing E$	F	G	$\varnothing H$	I
PA-16	16	42	20	33	14	5.5	32	20	16.1	4
PA-25	20, 25	54	25	45	17	6.6	40	25	22.1	5

material: stainless steel AISI 304 (1.4301)

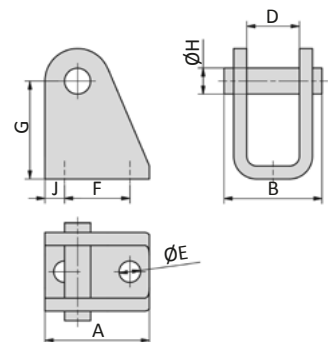
PB-xx Flange mount



Model-no.:	for cylinder \varnothing	$\varnothing E$	F	$\varnothing H$	I
PB-16	16	5.5	40	16.1	4
PB-25	20, 25	6.6	50	22.1	5

material: stainless steel AISI 304 (1.4301)

PC-xx Clevis mount



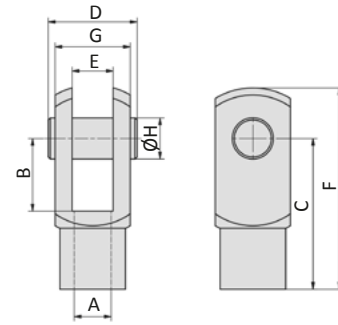
Model-no.:	for cylinder \varnothing	A	B	D	$\varnothing E$	F	G	$\varnothing H$	J
PC-16	16	25	24	12.1	5.5	15	27	6	5
PC-25	20, 25	32	30	16.1	6.6	20	30	8	6

material: stainless steel AISI 304 (1.4301), 2 snap rings are included.

Series CM
Mounting accessories



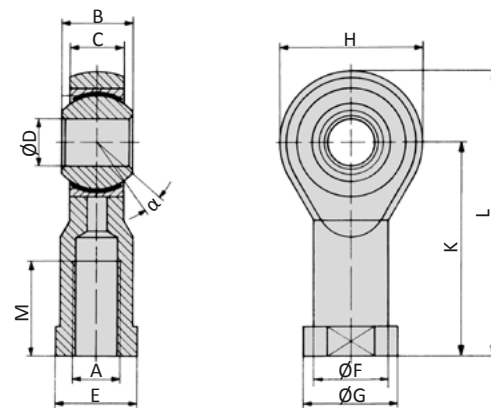
PD-xx Rod clevis



Model-no.:	for cylinder \varnothing	A	B	C	D	E	F	G	$\varnothing H$
PD-16	16	M6	12	24	16	6	31	12	6
PD-20	20	M8	16	32	22	8	42	16	8
PD-25	25	M10 x 1.25	20	40	26	10	52	20	10

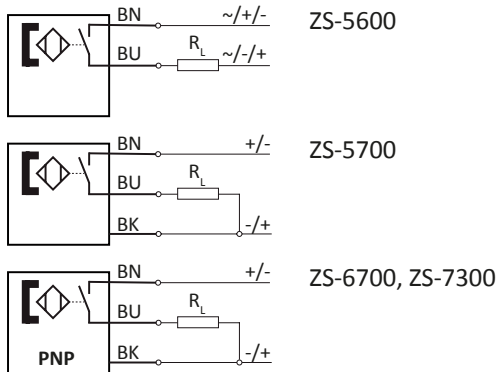
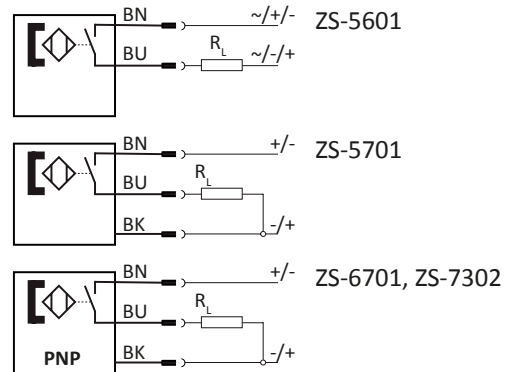
material: stainless steel AISI 303 (1.4305)

PO-xx Rod eye



Model-no.:	for cylinder \varnothing	A	B	C	$\varnothing D$	E	$\varnothing F$	$\varnothing G$	H	K	L	M	α
PO-16	16	M6	9	6.75	6	11	10	13	20	30	40	12	13°
PO-20	20	M8	12	9	8	14	12.5	16	24	36	48	16	14°
PO-25	25	M10 x 1.25	14	10.5	10	17	15	19	28	43	57	20	13°

materials: stainless steel AISI 331 (1.4057), bearing stainless steel AISI 316 Ti, PTFE coated, bushing stainless steel AISI 420 (1.4034)

Proximity sensors with cable

Proximity sensors with plug

Technical data

Model-no.:	ZS-5600	ZS-5601	ZS-5700	ZS-5701
Design				
Contact function	2-pole Reed sensor	2-pole Reed sensor	3-pole Reed sensor	3-pole Reed sensor
Rated operational voltage	5 ... 240 V AC / DC	5 ... 60 V AC / DC	5 ... 30 V DC	5 ... 30 V DC
Rated operational current I_E	3 ... 100 mA	3 ... 100 mA	≤ 500 mA	≤ 500 mA
Max. voltage drop at I_E	≤ 2.5	≤ 2.5	≤ 0.1	≤ 0.1
Breaking capacity	10 W	10 W	10 W	10 W
Cable length	3 m	0.3 m with M8 connection	5 m	0.3 m with M8 connection
Temperature range	-10 ... +70°C	-10 ... +70°C	-10 ... +70°C	-10 ... +70°C
Protection	IP 67	IP 67	IP 67	IP 67
Switching status indication	LED red	LED red	LED yellow	LED yellow

Model-no.:	ZS-6700	ZS-6701	ZS-7300	ZS-7302
Design				
Contact function	3-pole inductive	3-pole inductive	3-pole inductive	3-pole inductive
Output	NO	NO	NO	NO
Rated operational voltage	PNP	PNP	PNP	PNP
Rated operational current I_E	5 ... 30 V DC	5 ... 30 V DC	10 ... 30 V DC	10 ... 30 V DC
Max. voltage drop at I_E	≤ 200 mA	≤ 200 mA	≤ 100 mA	≤ 100 mA
Breaking capacity	≤ 1.0	≤ 1.0	≤ 2.5	≤ 2.5
Cable length	6 W	6 W	3 W	3 W
Temperature range	3 m	0.3 m with M8 connection	6 m	0.3 m with M12 connection
Protection	-10 ... +70°C	-10 ... +70°C	-20 ... +60°C	-20 ... +60°C
Switching status indication	IP 67	IP 67	IP 67	IP 67
	LED green	LED green	LED yellow	LED yellow
	-	-	II 3G Ex nA T4 II 3D Ex tD A22 IP67 T 125°C	II 3D Ex tc IIIC T125°C Dc X

Series ZS

Proximity sensors


Cable with bushing for proximity sensors

Model-no.:	KA-30	KA-50	KA-51	KA-100	KA-101
Connection	M8, snap-in	M8, snap-in	M8, snap-in	M8, snap-in	M8, snap-in
Version	straight	straight	elbow 90°	straight	elbow 90°
Cable length	3 m	5 m	5 m	10 m	10 m

Mounting

For this cylinder series separate mounting brackets are necessary for the sensor mounting.

Mounting brackets for proximity sensors

Model-no.:	NT-250
Design	 <p>Sensor mounting</p>