

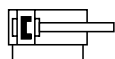
Technical details

Operating pressure	1 ... 10 bar
Temperature range	-10°C ... +80°C (NXDH: 0°C ... +150°C)
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	cylinder tube: Al (anodized) End caps: Al (anodized) Piston rod: stainless steel Seals: PU, NBR (optional FKM)

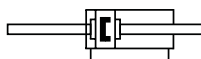


Double acting pneumatic cylinder with magnetic piston for proximity sensors and built-in cushioning rings. Standard stroke lengths in table below, additional lengths on request.

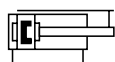
Versions



200, 202, 210, 212
double acting, built-in cushioning rings,
with magnetic piston



600, 602, 610, 612
double acting, double end piston rod, built-in
cushioning rings, with magnetic piston



220, 222
double acting, non rotating, built-in
cushioning rings, with magnetic piston

Order code

Series, Version		Versions	
NXD	standard	200	standard version, male thread
NXDH	high temperature version	600	standard version, male thread
Piston Ø		210	standard version, female thread
012	12 mm	610	standard version, female thread
016	16 mm	220	non rotating
020	20 mm	202	high temperature version (with magnetic piston up to 80°C effective), male thread
025	25 mm	602	high temperature version (with magnetic piston up to 80°C effective), male thread
032	32 mm	212	high temperature version (with magnetic piston up to 80°C effective), female thread
040	40 mm	612	high temperature version (with magnetic piston up to 80°C effective), female thread
050	50 mm	222	high temperature version (with magnetic piston up to 80°C effective), non rotating + female thread
063	63 mm	Stroke (mm)	
080	80 mm	xxx	max. 250 mm (uo from Ø 32 max. 400 mm)
100	100 mm	standard	5, 10, 15, 20, 25, 30, 40, 50*, 60**, 80***, 100 ****

* uo from Ø 16 mm, ** uo from Ø 25 mm, *** uo from Ø 50 mm, ****uo from Ø 80 mm

Not all combinations are possible and available.

Series NXD

double acting

Technical data

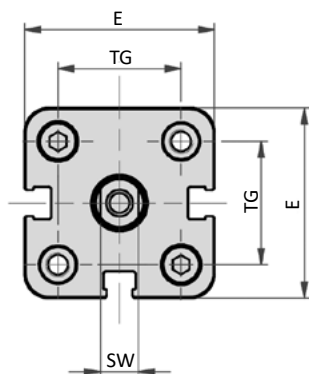
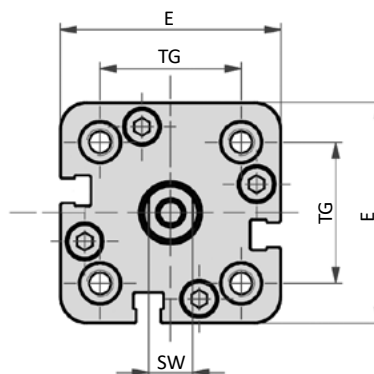
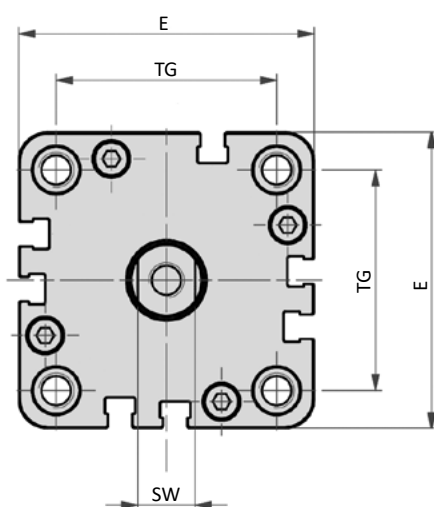
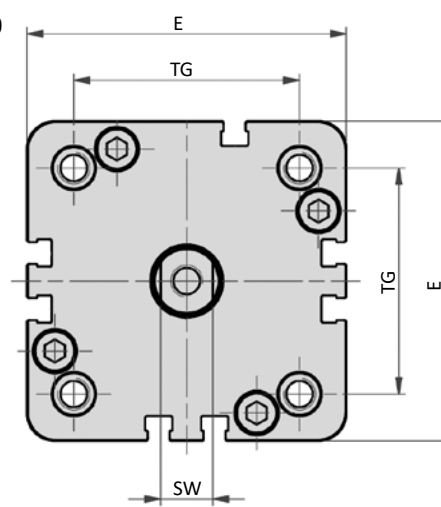
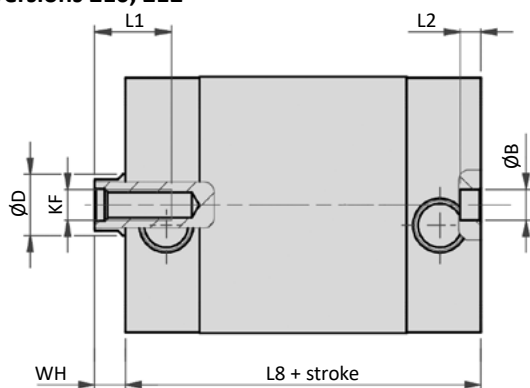
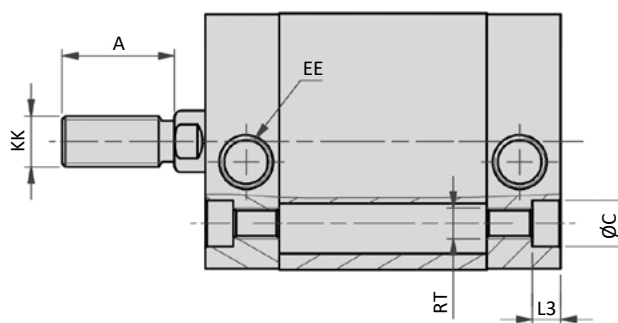
Model-no.:	NXD-012-...	NXD-016-...	NXD-020-...	NXD-025-...	NXD-032-...
Piston Ø (mm)	12	16	20	25	32
Force at 6 bar (N)	Extension	109	109	170	434
	Retraction	81	81	127	373
Connection	M5	M5	M5	M5	G1/8
Piston rod thread	male	M6	M8	M10 x 1.25	M10 x 1.25
	female	M3	M4	M5	M6

Model-no.:	NXD-040-...	NXD-050-...	NXD-063-...	NXD-080-...	NXD-100-...
Piston Ø (mm)	40	50	63	80	100
Force at 6 bar (N)	Extension	678	1060	1682	4239
	Retraction	617	951	1574	3974
Connection	G1/8	G1/8	G1/8	G1/8	G1/4
Piston rod thread	male	M10 x 1.25	M12 x 1.25	M12 x 1.25	M16 x 1.5
	female	M6	M8	M8	M10

Piston Ø (mm)	12	16	20	25	32	40	50	63	80	100
Weight (kg)	0 mm stroke (-200)	0.078	0.082	0.135	0.153	0.275	0.376	0.502	0.776	1.453
	0 mm stroke (-210)	0.074	0.074	0.121	0.139	0.261	0.362	0.481	0.755	1.402
	each 100 mm stroke	0.170	0.170	0.270	0.310	0.410	0.500	0.630	0.780	1.180

Piston Ø (mm)	16	20	25	32	40	50	63	80	100
Weight (kg)	0 mm stroke (-220)	0.097	0.150	0.195	0.335	0.461	0.636	0.976	1.845
	each 100 mm stroke	0.200	0.300	0.350	0.530	0.620	0.750	0.900	1.420

Piston Ø (mm)	12	16	20	25	32	40	50	63	80	100
Weight (kg)	0 mm stroke (-600)	0.097	0.108	0.170	0.188	0.325	0.426	0.591	0.865	1.617
	0 mm stroke (-610)	0.092	0.092	0.143	0.161	0.298	0.399	0.548	0.822	1.516
	each 100 mm stroke	0.210	0.210	0.330	0.370	0.500	0.590	0.790	0.940	1.430

Dimensions series NXD (Versions 200, 202, 210 and 212)
Ø 12 - 25

Ø 32 - 40

Ø 50

Ø 63 - 100

Versions 210, 212

Versions 200, 202


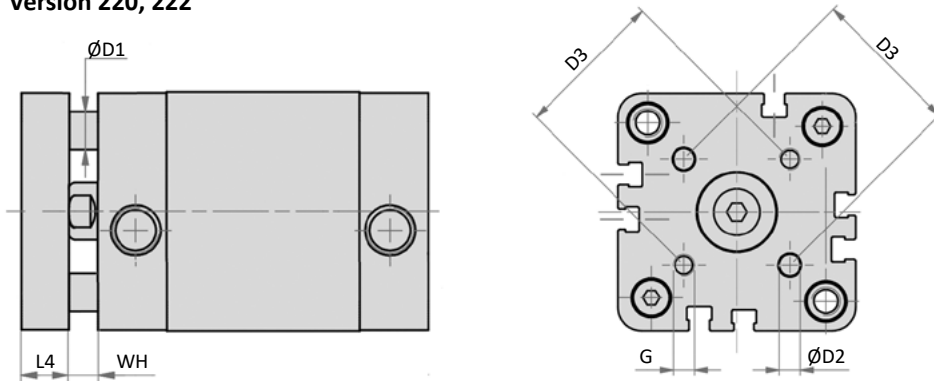
Piston Ø	A	Ø B	Ø C	Ø D	E	EE	KF	KK	L1	L2	L3	L8	RT	SW	TG	WH
12	16	6	6	8	29	M5	M3	M6	6	4	3.5	38	M4	5	18	4.5
16	20	6	6	8	29	M5	M4	M8	8	4	3.5	38	M4	6	18	4.5
20	22	6	7.5	10	36	M5	M5	M10 x 1.25	10	4	4.5	38	M5	8	22	4.5
25	22	6	7.5	10	40	M5	M5	M10 x 1.25	10	4	4.5	39.5	M5	8	26	5.5
32	22	6	9	12	50	G1/8	M6	M10 x 1.25	12	4	5.5	44.5	M6	10	32	6
40	22	6	9	12	58	G1/8	M6	M10 x 1.25	12	4	5.5	45.5	M6	10	42	6.5
50	24	6	10.5	16	67	G1/8	M8	M12 x 1.25	12	4	6.5	45.5	M8	13	50	7.5
63	24	8	13.5	16	80	G1/8	M8	M12 x 1.25	14	4	8.5	50	M10	13	62	7.5
80	32	8	13.5	20	100	G1/8	M10	M16 x 1.5	15	4	8.5	56	M10	17	82	8
100	40	8	13.5	25	124	G1/4	M12	M20 x 1.5	20	4	8.5	66.5	M10	22	103	10

Series NXD

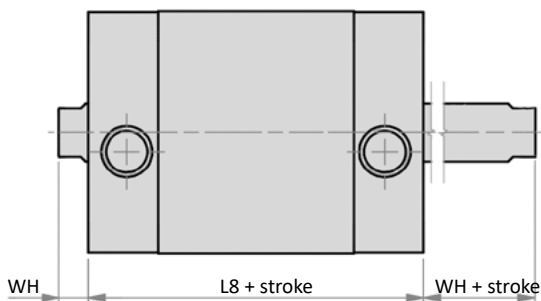
double acting

Dimensions series NXD (Versions 220, 222, 600, 602, 610 and 612)

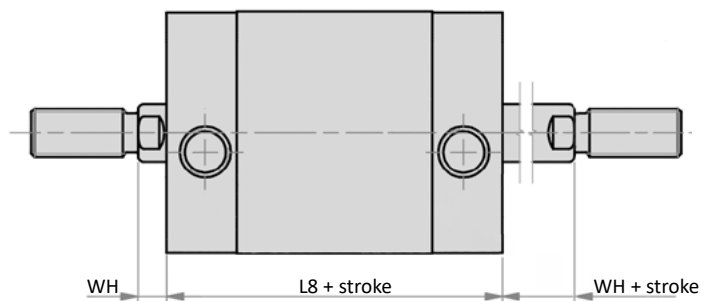
Version 220, 222



Version 610, 612

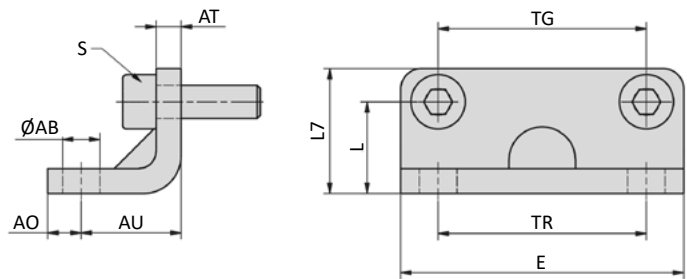


Version 600, 602



Piston Ø	Ø D1	Ø D2	D3	G	L4	L8	WH
12	-	-	-	-	-	38	4.5
16	5	3	14	M3	6	38	4.5
20	5	4	17	M4	8	38	4.5
25	6	5	22	M5	8	39.5	5.5
32	8	5	28	M5	10	44.5	6
40	10	5	33	M5	10	45.5	6.5
50	10	6	42	M6	12	45.5	7.5
63	10	6	50	M6	12	50	7.5
80	14	8	65	M8	14	56	8
100	14	10	80	M10	14	66.5	10

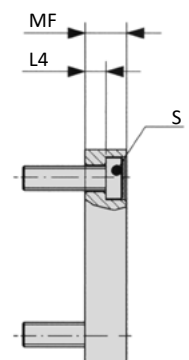
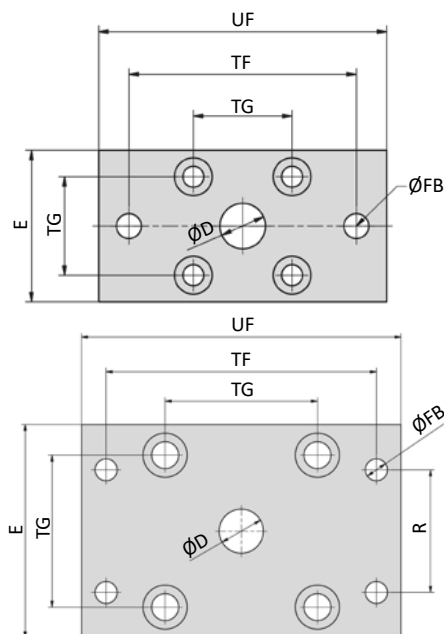
NXB-xxx-01 Foot mount



Model-no.:	Ø AB	AO	AU	AT	E	L	L7	S	TG	TR
NXB-032-01	6.6	8	18	5	50	16	24	M6 x 20	32	32
NXB-040-01	9	8	20	5	60	21.5	29.5	M6 x 20	42	42
NXB-050-01	9	8	24	6	68	22	30	M8 x 20	50	50
NXB-063-01	11	12	27	6	84	28.5	39	M8 x 20	62	62
NXB-080-01	11	12	30	8	102	24.5	36.5	M10 x 20	82	82
NXB-100-01	13.5	12	33	8	123	26.5	38.5	M10 x 20	103	103

Materials: steel, zinc plated; 2 x 2 screws in accordance with EN ISO 4762 are included..

NXB-xxx-02 Flange mount



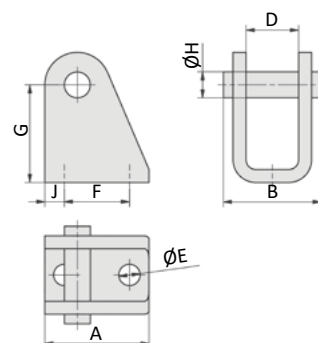
Model-no.:	Ø D	E	Ø FB	L4	MF	R	S	TF	TG	UF
NXB-016-02	10	29	5.5	4.6	10	-	M4 x 16	43	18	55
NXB-020-02	12	36	6.6	4.6	10	-	M5 x 20	55	22	70
NXB-025-02	12	40	6.6	4.6	10	-	M5 x 20	60	26	76
NXB-032-02	14	50	7	3.6	10	32	M6 x 20	65	32	80
NXB-040-02	14	60	9	3.6	10	36	M6 x 20	82	42	102
NXB-050-02	18	68	9	3.4	12	45	M8 x 25	90	50	110
NXB-063-02	18	87	9	4.4	15	50	M10 x 25	110	62	130
NXB-080-02	23	107	12	4.4	15	63	M10 x 25	135	82	160
NXB-100-02	28	128	14	4.4	15	75	M10 x 30	163	103	190

Materials: steel, zinc plated; 4 screws in accordance with DIN 7984 are included..

Series NXD

Mounting accessories

RC-xx Clevis mount



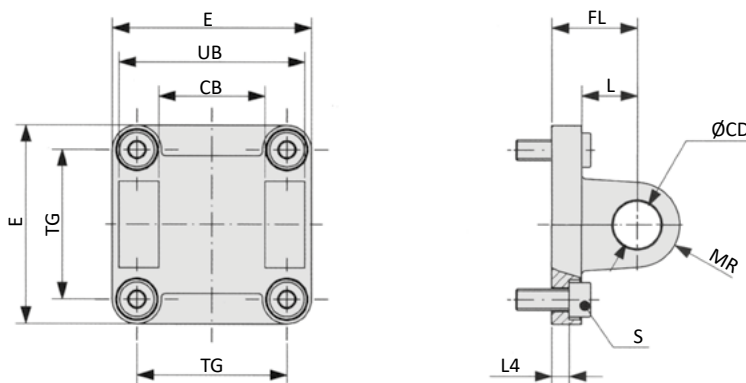
Model-no.:	Gegenlager zu:	A	B	D	Ø E	F	G	Ø H	J
RC-16	NXB-016-04	25	23	12.1	5.5	15	27	6	5
RC-30	NXB-020-04 NXB-025-04	32	30	16.1	6.6	20	30	8	6

steel, zinc plated, 2 snap rings are included..

NXB-xxx-03 Gabel



Inclusive clevis pin
order no.: **NXB-xxx-38**



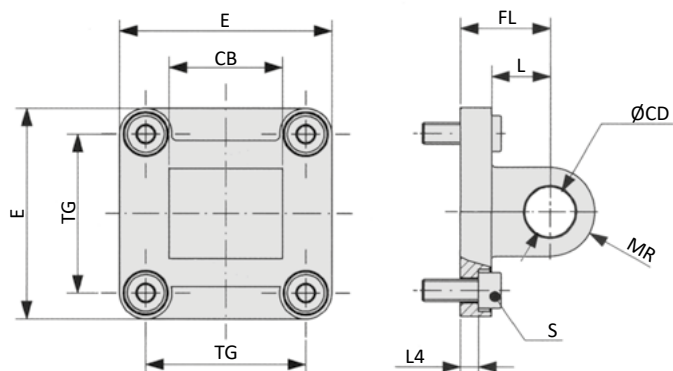
Model-no.:	CB	Ø CD	E	FL	L	L4	MR	S	TG	UB
NXB-032-03	26	10	48	22	13	5.5	10	M6 x 16	32	45
NXB-040-03	28	12	58	25	16	5.5	12.5	M6 x 16	42	52
NXB-050-03	32	12	66	27	16	6.5	12.5	M8 x 20	50	60
NXB-063-03	40	16	83	32	21	6.5	15	M10 x 25	62	70
NXB-080-03	50	16	102	36	23	10	15	M10 x 30	82	90
NXB-100-03	60	20	123	41	26	10	20	M10 x 30	103	110

Materials: Al, 4 screws in accordance with EN ISO 4762 are included..

Series NXD

Mounting accessories

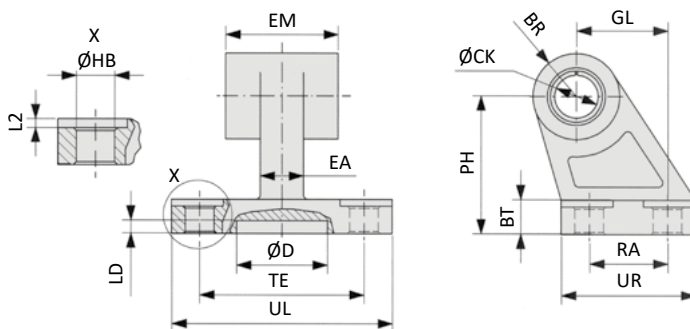
NXB-xxx-04 Swivel mount



Model-no.:	CB	Ø CD	E	FL	L	L4	MR	S	TG
NXB-016-04	12	6	27	16	10	2.6	6	M4 x 12	18
NXB-020-04	16	8	34	20	14	2.6	8	M5 x 16	22
NXB-025-04	16	8	38	20	14	2.6	8	M5 x 16	26

Materials: Al, 4 screws in accordance with EN ISO 4762 are included..

XLB-xxx-06 Swivel mount 90°



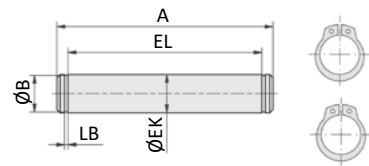
Model-no.:	BR	BT	ØCK	Ø D	EA	EM	GL	ØHB	L2	LD	PH	RA	TE	UL	UR
XLB-032-06	10	8	10	21	10	26	21	6.6	1.6	3	32	18	38	51	31
XLB-040-06	11	10	12	21	15	28	24	6.6	1.6	3	36	22	41	54	35
XLB-050-06	13	12	12	21	16	32	33	9	1.6	3	45	30	50	65	45
XLB-063-06	15	14	16	21	16	40	37	9	1.6	3	50	35	52	67	50
XLB-080-06	15	14	16	21	20	50	47	11	2.5	3	63	40	66	86	60
XLB-100-06	19	17	20	11	20	60	55	11	2.5	3	71	50	76	96	70

Materials: Al, bushing steel and PTFE

Series NXD

Mounting accessories

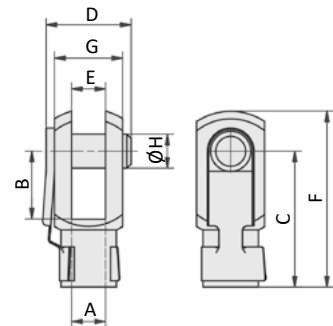
XLB-xxx-08 Clevis pin



Model-no.:	A	Ø B	Ø EK	EL	LB
XLB-032-08	53	9.6	10	46	1.1
XLB-040-08	60	11.5	12	53	1.1
XLB-050-08	68	11.5	12	61	1.1
XLB-063-08	78	15.2	16	71	1.1
XLB-080-08	98	15.2	16	91	1.1
XLB-100-08	118	19	20	111	1.3

Materials: steel, zinc plated; 2 snap rings are included..

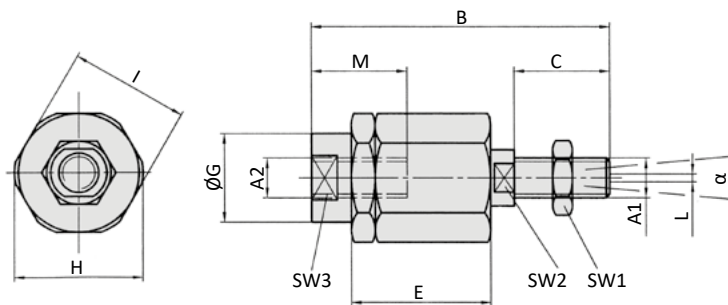
RD-xx, FD-xx Rod clevis



Model-no.:	for cylinder Ø	A	B	C	D	E	F	G	Ø H
RD-16	12	M6	12	24	16	6	31	12	6
RD-20	16	M8	16	32	22	8	42	16	8
RD-25	20 - 40	M10 x 1.25	20	40	26	10	52	20	10
FD-40	50, 63	M12 x 1.25	24	48	32	12	62	24	12
FD-63	80	M16 x 1.5	32	64	40	16	83	32	16
FD-80	100	M20 x 1.5	40	80	50	20	105	40	20

Materials: steel, zinc plated

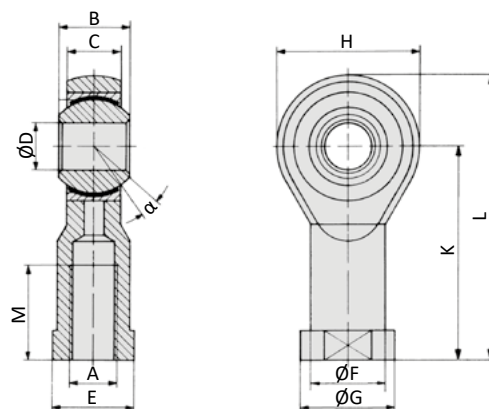
FK-xx Flexible coupling



Model-no.:	for cylinder	A1, A2	B	C	D	E	Ø G	H	I	L	M	SW1	SW2	SW3	α
FK-16	12	M6	35	11	2.5	17.5	8.5	14.5	13	1	12.5	10	5	7	6°
FK-20	16	M8	57	21	5	26	12.5	19	17	2	16	13	7	11	8°
FK-32	20 - 40	M10 x 1.25	71.5	20	7.5	35	22	32	30	2	22	17	12	19	8°
FK-40	50, 63	M12 x 1.25	75	24	7.5	35	22	32	30	2	22	19	12	19	8°
FK-63	80	M16 x 1.5	104	32	10	53	32	45	41	2	30	24	20	27	6°
FK-80	100	M20 x 1.5	119	40	10	53	32	45	41	2	37	30	20	30	6°

Materials: steel, zinc plated

RO-xx, FO-xx Rod eye



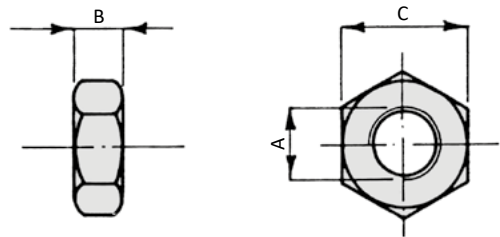
Model-no.:	for cylinder	A	B	C	Ø D	E	Ø F	Ø G	H	K	L	M	α
RO-16	12	M6	9	6.75	6	11	10	13	20	30	40	12	13°
RO-20	16	M8	12	9	8	14	12.5	16	24	36	48	16	14°
RO-25	20 - 40	M10 x 1.25	14	10.5	10	17	15	19	28	43	57	20	13°
FO-40	50.63	M12 x 1.25	16	12	12	19	17.5	22	32	50	66	22	13°
FO-63	80	M16 x 1.5	21	15	16	22	22	27	42	64	85	28	15°
FO-80	100	M20 x 1.5	25	18	20	30	27.5	34	50	77	102	33	14°

Materials: steel, zinc plated, bearing steel, bronze bushing

Series NXD

Mounting accessories

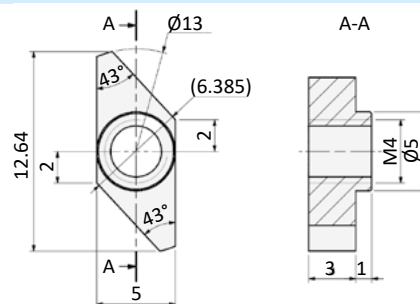
RL-xx, FE-xx Piston rod nut



Model-no.:	for cylinder	A	B	C
RL-16	12	M6	4	10
RL-20	16	M8	5	13
RL-25	20 - 40	M10 x 1.25	5	17
FE-40	50, 63	M12 x 1.25	8	19
FE-63	80	M16 x 1.5	8	24
FE-80	100	M20 x 1.5	10	30

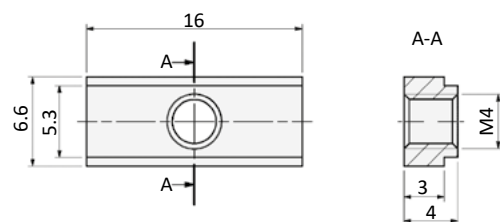
Material: steel, zinc plated

NST-T-4-U Slot nut



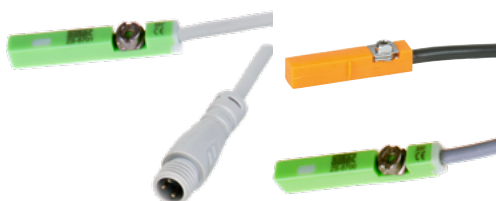
Materials: steel, zinc plated

NST-T-4-V Slot nut

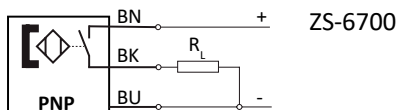
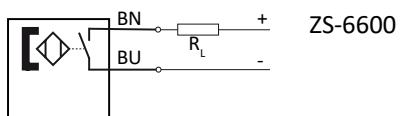


Materials: steel, zinc plated

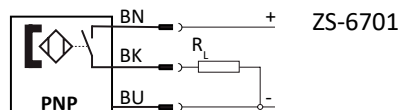
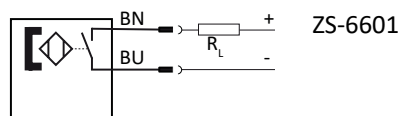
Proximity sensors



Proximity sensors with cable



Proximity sensors with plug



Technical data

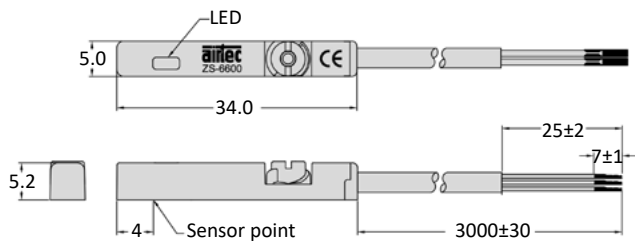
Model-no.:	ZS-6600	ZS-6601	ZS-6700	ZS-6701
				
Design	2-pole inductive	2-pole inductive	3-pole inductive	3-pole inductive
Contact function	NO	NO	NO	NO
Output	NO	NO	PNP	PNP
Rated operational voltage	10 ... 30 V DC	10 ... 30 V DC	5 ... 30 V DC	5 ... 30 V DC
Rated operational current I_E	≤ 50 mA	≤ 50 mA	≤ 100 mA	≤ 100 mA
Max. voltage drop at I_E	≤ 2.65	≤ 2.65	≤ 1.0	≤ 1.0
Breaking capacity	1,4 W	1,4 W	3 W	3 W
Sensitivity	40 ~ 800 Gauss	40 ~ 800 Gauss	40 ~ 800 Gauss	40 ~ 800 Gauss
Cable length	3 m	0.3 m with M8 connection	3 m	0.3 m with M8 connection
Reverse polarity protection	nein	nein	ja	ja
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 red	LED red

Series ZS

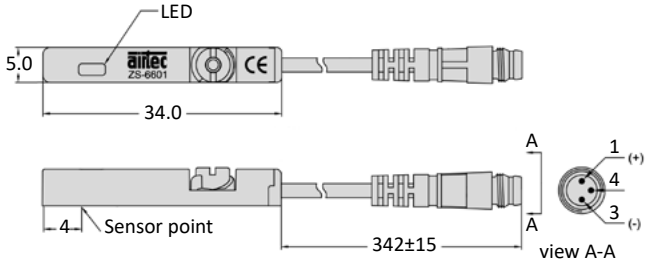
Proximity sensors

Dimensions

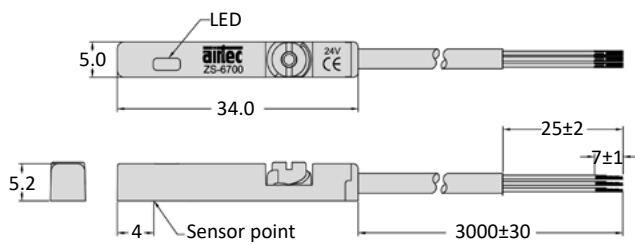
ZS-6600



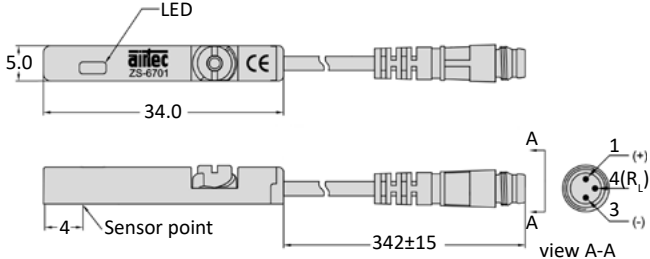
ZS-6601



ZS-6700



ZS-6701



Mounting

The sensors are mounted at the groove of the cylinder profile. It is fixed by turning the fixing screw at the sensor clockwise.

Connection cable M8

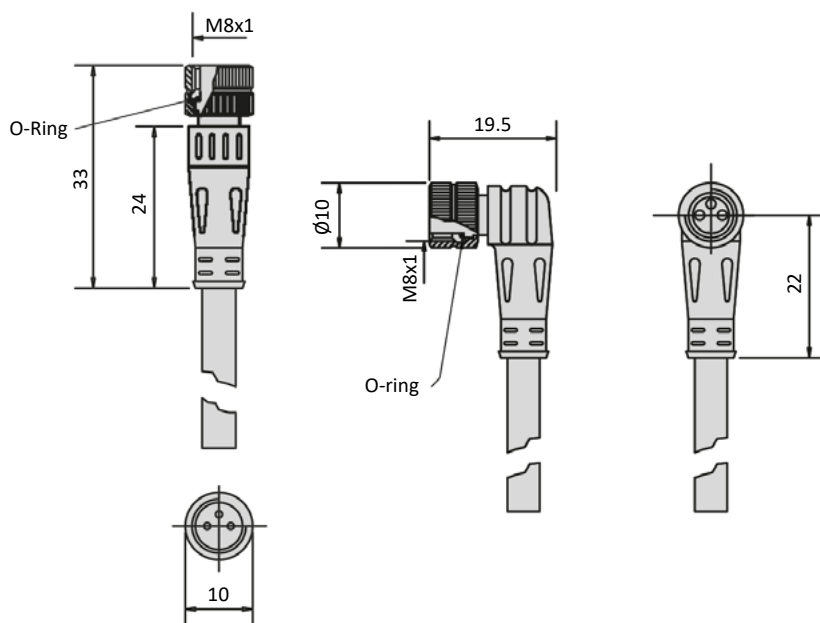
Contacts	M8 Plug socket
Protection	IP 67 according to EN 60529 in conjunction with suitable connection plug
Duty cycle	100 %
Temperature range*	-25°C...+90°C
max. voltage	60 V AC / DC
Use for	Solenoids with M8 plug, cylinder switch with M8 plug



Model-no.:	KA-10-01	KA-30-01	KA-50-01	KA-100-01
Contacts	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight
Mounting	Coupling nut	Coupling nut	Coupling nut	Coupling nut
Cable	3-pin	3-pin	3-pin	3-pin
Length (L)	1 m	3 m	5 m	10 m

Model-no.:	KA-11-01	KA-31-01	KA-51-01	KA-101-01
Contacts	M8 Socket, elbow 90°	M8 Socket, elbow 90°	M8 Socket, elbow 90°	M8 Socket, elbow 90°
Mounting	Coupling nut	Coupling nut	Coupling nut	Coupling nut
Cable	3-pin	3-pin	3-pin	3-pin
Length (L)	1 m	3 m	5 m	10 m

Dimensions



Pin assignment



1 = brown
3 = blue
4 = black

Version code

Cylinder - * * * - xxxx		
Cylinder double acting	Piston rod versions	Seals, Air connection
0 piston rod on one side with magnetic piston adjustable cushioning	0 piston rod stainless steel male thread	0 standard seals (PUR, NBR) air connection G thread
1 piston rod on one side adjustable cushioning	1 piston rod stainless steel female thread	1 standard seals (PUR, NBR) air connection NPT thread
2 piston rod on one side with magnetic piston	2 piston rod stainless steel female thread with guide and non rotating	2 high temperature version (FKM) air connection G thread
3 piston rod on one side	3 piston rod stainless steel male thread non rotating	3 high temperature version (FKM) air connection NPT thread
4 double end piston rod with magnetic piston adjustable cushioning	4 piston rod stainless steel female thread non rotating	4 standard seals (NBR) piston rod seal FKM air connection G thread
5 double end piston rod adjustable cushioning	5 piston rod steel hard chrome plated male thread	5 standard seals (NBR) piston rod seal FKM air connection NPT thread
6 double end piston rod with magnetic piston	6 piston rod steel hard chrome plated female thread	
7 double end piston rod	7 Doppelkolbenstange	
8 double end piston rod through hollow with magnetic piston	8 piston rod stainless steel without thread	
	9 piston rod steel hard chrome plated female thread with guide and non rotating	
	Axxx piston rod stainless steel male thread lengthened by xxx mm [#]	
	Bxxx piston rod stainless steel female thread lengthened by xxx mm	
	Cxxx piston rod steel hard chrome plated male thread lengthened by xxx mm [#]	
	Dxxx piston rod steel hard chrome plated female thread lengthened by xxx mm [#]	
	Exxx piston rod stainless steel without thread lengthened by xxx mm [#]	
	Fxxx piston rod steel hard chrome plated without thread lengthened by xxx mm [#]	
	V piston rod stainless steel AISI 316 (1.4401) male thread	
	xxxx - Additions* ATEX EX X cylinders in accordance with 2014/34/EU (ATEX) E8 piston rod seal E8, two-part, with plastic scraper	
	* Use taking into account the maximum length of 20 characters for an article number	

Cylinder single acting

0	piston rod on one side with magnetic piston normally retracted
1	piston rod on one side normally retracted
2	piston rod on one side with magnetic piston normally extended
3	piston rod on one side normally extended
4	double end piston rod with magnetic piston
5	double end piston rod

[#] with a double end piston rod, only one side is extended

Exceptions

Round cylinders are described by the designation of the series.
A design code is only used if there are deviations from the standard described.

If it is not possible to describe the version of the cylinder using the version code, a project number in the form Pxxxx should be used.

Not all options are suitable for all cylinder series

Air consumption cylinder (NI for a single stroke of 100 mm, based upon extension)

Piston-Ø	Pressure in bar						
	2	3	4	5	6	7	8
12	0.03	0.05	0.06	0.07	0.08	0.09	0.10
16	0.06	0.08	0.10	0.12	0.14	0.16	0.18
20	0.09	0.13	0.16	0.19	0.22	0.25	0.28
25	0.15	0.20	0.25	0.29	0.34	0.39	0.44
32	0.24	0.32	0.40	0.48	0.56	0.64	0.72
40	0.38	0.50	0.63	0.75	0.88	1.01	1.13
50	0.59	0.79	0.98	1.18	1.37	1.57	1.77
63	0.94	1.25	1.56	1.87	2.18	2.49	2.81
80	1.51	2.01	2.51	3.02	3.52	4.02	4.52
100	2.36	3.14	3.93	4.71	5.50	6.28	7.07

Required flow rate (NI/min at p = 6 bar)

Piston-Ø	speed (m/s)				
	0.25	0.5	1	1.5	2
12	12	24	47	71	95
16	21	42	84	127	169
20	33	66	132	198	264
25	52	103	206	309	412
32	84	169	338	506	675
40	132	264	528	791	1055
50	206	412	824	1236	1649
63	327	654	1309	1963	2617
80	528	1055	2110	3165	4220
100	824	1649	3297	4946	6594

Force chart cylinders (N)

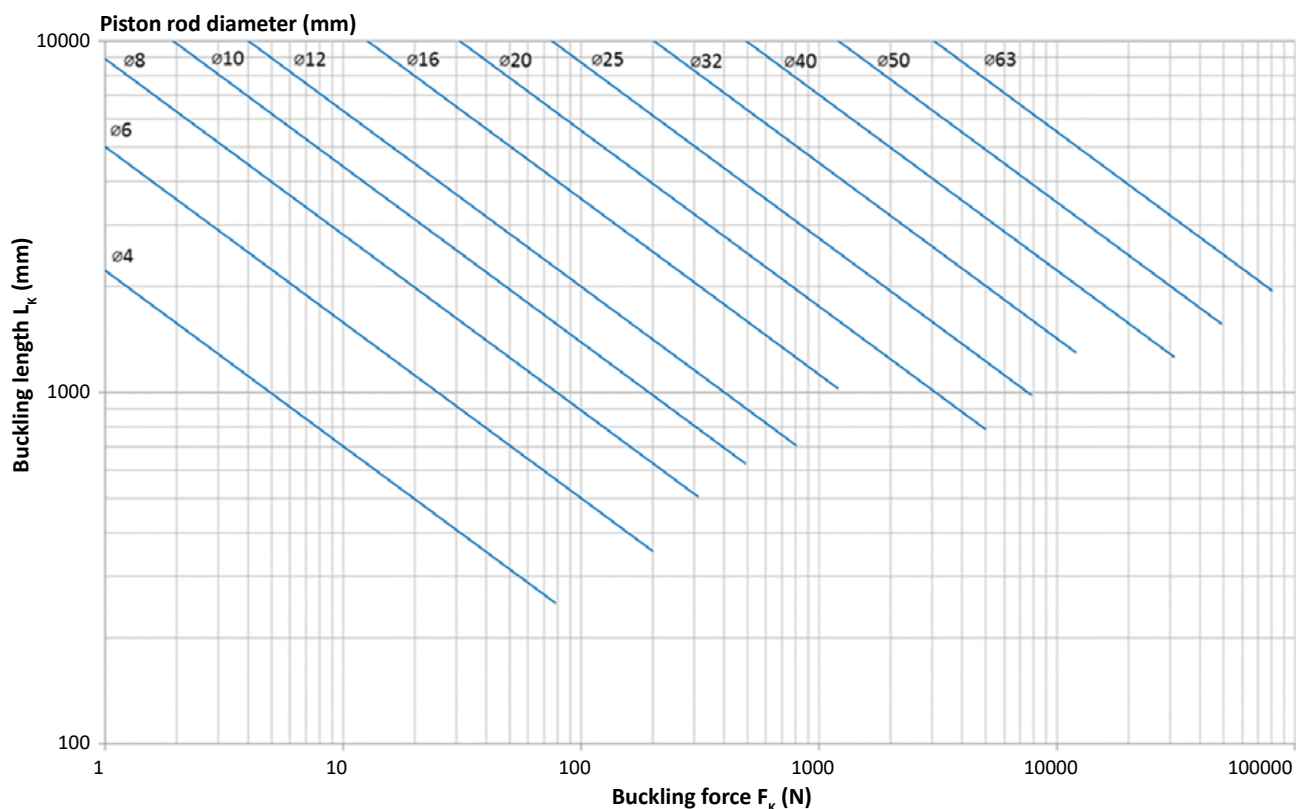
Piston-Ø	Series	Piston rod Ø (mm)	Pressure in bar						
			2	3	4	5	6	7	8
12			36	54	72	90	109	127	145
	NXD	8	27	41	54	68	81	95	109
16			36	54	72	90	109	127	145
	NXD	8	27	41	54	68	81	95	109
20			57	85	113	141	170	198	226
	NXD	10	42	64	85	106	127	148	170
25			88	132	177	221	265	309	353
	NXD	10	74	111	148	185	223	260	297
32			145	217	289	362	434	506	579
	NXD	12	124	187	249	311	373	435	497
40			226	339	452	565	678	791	904
	NXD	12	206	309	411	514	617	720	823
50			353	530	707	883	1060	1236	1413
	NXD	16	317	476	634	793	951	1110	1268
63			561	841	1122	1402	1682	1963	2243
	NXD	16	525	787	1049	1312	1574	1836	2099
80			904	1356	1809	2261	2713	3165	3617
	NXD	20	848	1272	1696	2120	2543	2967	3391
100			1413	2120	2826	3533	4239	4946	5652
	NXD	25	1325	1987	2649	3312	3974	4636	5299

extension force*

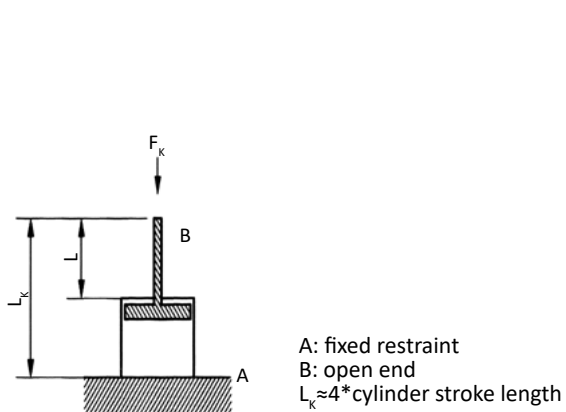
retraction force*

* A correction factor of 0.9 for the internal friction is already calculated.

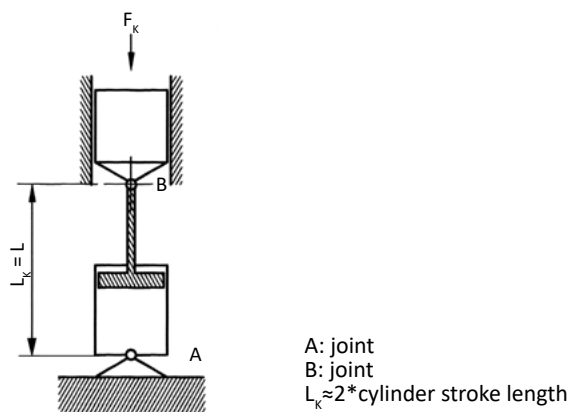
Critical load diagram for the piston rod



First elastic case of buckling

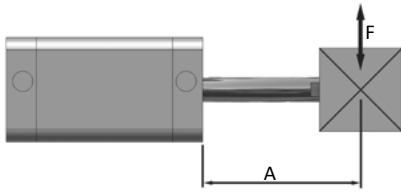


Second elastic case of buckling



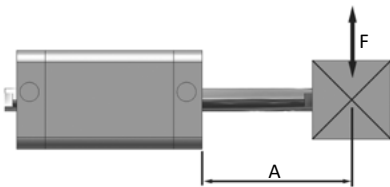
Knowing the actual buckling case, either 1 or 2, and knowing the requested stroke length you can calculate the buckling length L_k . If you know the buckling force F_k (compressive force) you determine in the diagram above the intersection of both data. Choose the next graph line above to get the necessary rod diameter.

Permissible side load F (N), series NXD, version 200 and 210



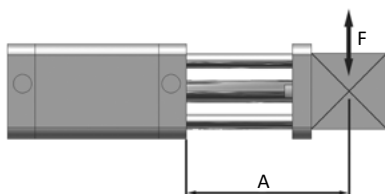
Piston-Ø	Distance A (mm)									
	25	30	40	50	60	70	80	90	100	125
12 + 16	8	7	6	6	5	5	4	3	2	-
20 + 25	12	11	9	7	6	5	4	3	3	-
32 + 40	23	20	16	12	10	8	7	7	6	4
50 + 63	38	34	28	22	18	15	13	12	11	3
80	49	43	35	28	24	20	18	17	16	12
100	93	82	67	55	46	40	37	34	31	23

Permissible side load F (N), series NXD, version 600 and 610



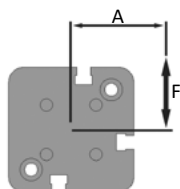
Piston-Ø	Distance A (mm)									
	25	30	40	50	60	70	80	90	100	125
12 + 16	22	20	18	15	13	11	10	10	9	6
20 + 25	32	30	26	21	19	16	14	13	12	9
32 + 40	47	43	38	32	28	26	22	20	18	13
50 + 63	83	78	68	59	51	46	41	38	36	27
80	112	108	93	83	74	67	60	57	54	40
100	194	181	160	144	130	118	108	101	96	72

Permissible side load F (N), series NXD, version 220



Piston-Ø	Distance A (mm)									
	25	30	40	50	60	70	80	90	100	125
16 + 20	38	33	27	23	20	18	16	14	12	9
25	59	53	43	37	31	27	24	23	22	15
32	76	68	58	49	43	38	35	34	32	24
40	112	101	84	72	62	56	50	47	46	34
50 + 63	145	130	108	92	83	74	66	61	56	42
80 + 100	200	180	155	135	120	110	100	90	80	60

Permissible torque F x A (Nm), series NXD, version 220



Piston-Ø	Distance A (mm)											
	10	15	20	25	30	40	50	60	70	80	90	100
16	0.75	0.7	0.6	0.5	0.45	0.4	0.35	0.3	0.25	0.2	0.15	0.1
20	1.0	0.85	0.8	0.7	0.6	0.4	0.35	0.35	0.3	0.25	0.2	0.2
25	2.0	1.75	1.6	1.3	1.2	0.9	0.75	0.6	0.5	0.45	0.45	0.4
32	2.7	2.5	2.2	2.0	1.8	1.6	1.3	1.1	1.0	0.9	0.9	0.8
40	5.0	4.0	3.5	3.3	3.0	2.5	2.2	2.0	1.8	1.5	1.4	1.3
50	8.8	7.6	6.7	6.0	5.4	4.6	4.0	3.5	3.0	2.8	2.6	2.4
63	10.7	9.4	8.3	7.4	6.7	5.5	4.8	4.2	3.8	3.5	3.2	2.9
80	17.5	15.3	13.7	12.4	11.3	9.6	8.5	7.6	7.0	6.3	5.8	5.3
100	20.0	19.0	17.0	15.5	14.0	12.0	10.5	9.5	8.5	7.7	7.0	6.5