

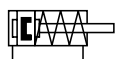
Technical details

Operating pressure	1 ... 10 bar
Temperature range	-20°C ... +80°C (Ø 32 mm - Ø 125 mm: -30°C...+80°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-die-cast (painted) Piston rod: stainless steel Seals: PU, NBR
	Cylinders in accordance with 2014/34/EU (ATEX) available. (page 21)



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

Versions



000, 010
single acting, built-in cushioning rings,
with magnetic piston,
normally retracted



200, 210
single acting, built-in cushioning rings,
with magnetic piston,
normally extended

Order code

Series		Options	
NYE	standard	ATEX	cylinders in accordance with 2014/34/EU (ATEX)
Piston Ø		Versions	
020	20 mm	000	standard version, male thread, normally retracted
025	25 mm	010	standard version, female thread, normally retracted
032	32 mm	200	standard version, male thread, normally extended
040	40 mm	210	standard version, female thread, normally extended
050	50 mm		
063	63 mm		
080	80 mm		
100	100 mm		
125	125 mm		
		Stroke (mm)	
		XXX	max. 60 mm*
		Standard	5, 10, 15, 20, 25
* Ø 125 mm only up to 30 mm stroke			

Series NYE

ISO 21287, single acting

Technical data

Model-no.:	NYE-020-...	NYE-025-...	NYE-032-...	NYE-040-...	NYE-050-...
Piston Ø (mm)	20	25	32	40	50
Connection	M5	M5	G1/8	G1/8	G1/8
Piston rod thread	M8	M8	M10 x 1.25	M10 x 1.25	M12 x 1.25
male					
female	M6	M6	M8	M8	M10

Model-no.:	NYE-063-...	NYE-080-...	NYE-100-...	NYE-125-...
Piston Ø (mm)	63	80	100	125
Connection	G1/8	G1/8	G1/8	G1/4
Piston rod thread	M12 x 1.25	M16 x 1.5	M16 x 1.5	M20 x 1.5
male				
female	M10	M12	M12	M16

Piston Ø (mm)	20	25	32	40	50	63	80	100
0 mm stroke (-x00)*	0.143	0.178	0.240	0.301	0.471	0.661	1.066	1.793
0 mm stroke (-x10)*	0.131	0.166	0.217	0.278	0.435	0.625	0.996	1.722
0 mm stroke (-x00)**	0.167	0.202	0.264	0.325	0.495	0.685	1.114	1.841
0 mm stroke (-x10)**	0.155	0.190	0.241	0.302	0.459	0.649	1.044	1.770
each 10 mm stroke	0.024	0.028	0.029	0.030	0.048	0.057	0.088	0.115

* up to 30 mm stroke, ** up from 35 mm stroke

Technical data

Model-no.:		NYE-020-xxx-0x0	NYE-025-xxx-0x0	NYE-032-xxx-0x0	NYE-040-xxx-0x0
Force at 6 bar and 5 mm stroke (N)	Extension	132 ... 137	223 ... 227	381 ... 386	609 ... 616
	Retraction	33 ... 38	38 ... 42	48 ... 53	63 ... 70
Force at 6 bar and 10 mm stroke (N)	Extension	132 ... 141	223 ... 232	381 ... 392	609 ... 623
	Retraction	29 ... 38	33 ... 42	42 ... 53	56 ... 70
Force at 6 bar and 15 mm stroke (N)	Extension	132 ... 146	223 ... 236	381 ... 397	609 ... 630
	Retraction	24 ... 38	29 ... 42	37 ... 53	49 ... 70
Force at 6 bar and 20 mm stroke (N)	Extension	132 ... 151	223 ... 241	381 ... 403	609 ... 637
	Retraction	19 ... 38	24 ... 42	31 ... 53	42 ... 70
Force at 6 bar and 25 mm stroke (N)	Extension	132 ... 155	223 ... 245	381 ... 408	609 ... 644
	Retraction	15 ... 38	20 ... 42	26 ... 53	35 ... 70
Force at 6 bar and 30 mm stroke (N)	Extension	132 ... 160	223 ... 250	381 ... 414	609 ... 651
	Retraction	10 ... 38	15 ... 42	20 ... 53	28 ... 70
Force at 6 bar and 35 mm stroke (N)	Extension	93 ... 132	185 ... 223	326 ... 381	550 ... 609
	Retraction	38 ... 77	42 ... 80	53 ... 108	70 ... 129
Force at 6 bar and 40 mm stroke (N)	Extension	93 ... 138	185 ... 228	326 ... 389	550 ... 617
	Retraction	32 ... 77	37 ... 80	45 ... 108	62 ... 129
Force at 6 bar and 50 mm stroke (N)	Extension	93 ... 149	185 ... 239	326 ... 404	550 ... 634
	Retraction	21 ... 77	26 ... 80	30 ... 108	45 ... 129
Force at 6 bar and 60 mm stroke (N)	Extension	93 ... 160	185 ... 250	326 ... 420	550 ... 651
	Retraction	10 ... 77	15 ... 80	14 ... 108	28 ... 129

Model-no.:		NYE-050-xxx-0x0	NYE-063-xxx-0x0	NYE-080-xxx-0x0	NYE-100-xxx-0x0
Force at 6 bar and 5 mm stroke (N)	Extension	985 ... 993	1586 ... 1594	2564 ... 2573	4027 ... 4039
	Retraction	67 ... 75	89 ... 97	141 ... 150	202 ... 214
Force at 6 bar and 10 mm stroke (N)	Extension	985 ... 1001	1586 ... 1602	2564 ... 2581	4027 ... 4052
	Retraction	59 ... 75	81 ... 97	133 ... 150	189 ... 214
Force at 6 bar and 15 mm stroke (N)	Extension	985 ... 1008	1586 ... 1610	2564 ... 2590	4027 ... 4064
	Retraction	52 ... 75	73 ... 97	124 ... 150	177 ... 214
Force at 6 bar and 20 mm stroke (N)	Extension	985 ... 1016	1586 ... 1619	2564 ... 2599	4027 ... 4076
	Retraction	44 ... 75	64 ... 97	115 ... 150	165 ... 214
Force at 6 bar and 25 mm stroke (N)	Extension	985 ... 1024	1586 ... 1627	2564 ... 2607	4027 ... 4089
	Retraction	36 ... 75	56 ... 97	107 ... 150	152 ... 214
Force at 6 bar and 30 mm stroke (N)	Extension	985 ... 1032	1586 ... 1635	2564 ... 2616	4027 ... 4101
	Retraction	28 ... 75	48 ... 97	98 ... 150	140 ... 214
Force at 6 bar and 35 mm stroke (N)	Extension	914 ... 985	1502 ... 1586	2491 ... 2564	3923 ... 4027
	Retraction	75 ... 146	97 ... 181	150 ... 223	214 ... 318
Force at 6 bar and 40 mm stroke (N)	Extension	914 ... 995	1502 ... 1598	2491 ... 2574	3923 ... 4042
	Retraction	65 ... 146	85 ... 181	140 ... 223	199 ... 318
Force at 6 bar and 50 mm stroke (N)	Extension	914 ... 1016	1502 ... 1622	2491 ... 2595	3923 ... 4071
	Retraction	44 ... 146	61 ... 181	119 ... 223	170 ... 318
Force at 6 bar and 60 mm stroke (N)	Extension	914 ... 1036	1502 ... 1646	2491 ... 2616	3023 ... 4101
	Retraction	24 ... 146	37 ... 181	98 ... 223	140 ... 318

Series NYE

ISO 21287, single acting

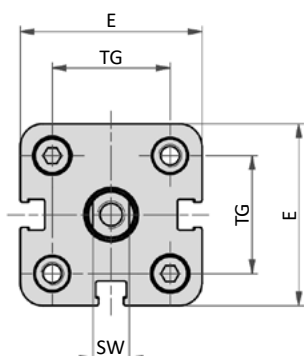
Technical data

Model-no.:		NYE-020-xxx-2x0	NYE-025-xxx-2x0	NYE-032-xxx-2x0	NYE-040-xxx-2x0
Force at 6 bar and 5 mm stroke (N)	Extension	33 ... 38	38 ... 42	48 ... 53	63 ... 70
	Retraction	89 ... 94	181 ... 185	320 ... 325	548 ... 555
Force at 6 bar and 10 mm stroke (N)	Extension	29 ... 38	33 ... 42	42 ... 53	56 ... 70
	Retraction	89 ... 98	181 ... 190	320 ... 331	548 ... 562
Force at 6 bar and 15 mm stroke (N)	Extension	24 ... 38	29 ... 42	37 ... 53	49 ... 70
	Retraction	89 ... 103	181 ... 194	320 ... 336	548 ... 569
Force at 6 bar and 20 mm stroke (N)	Extension	19 ... 38	24 ... 42	31 ... 53	42 ... 70
	Retraction	89 ... 108	181 ... 199	320 ... 342	548 ... 576
Force at 6 bar and 25 mm stroke (N)	Extension	15 ... 38	29 ... 42	26 ... 53	35 ... 70
	Retraction	89 ... 112	181 ... 203	320 ... 347	548 ... 583
Force at 6 bar and 30 mm stroke (N)	Extension	10 ... 38	15 ... 42	20 ... 53	28 ... 70
	Retraction	89 ... 117	181 ... 208	320 ... 352	548 ... 590
Force at 6 bar and 35 mm stroke (N)	Extension	56 ... 120	47 ... 93	105 ... 202	105 ... 202
	Retraction	7 ... 71	130 ... 176	171 ... 268	416 ... 513
Force at 6 bar and 40 mm stroke (N)	Extension	40 ... 120	47 ... 93	91 ... 202	91 ... 202
	Retraction	7 ... 87	130 ... 176	171 ... 282	416 ... 527
Force at 6 bar and 50 mm stroke (N)	Extension	27 ... 120	28 ... 93	64 ... 202	64 ... 202
	Retraction	7 ... 100	130 ... 195	171 ... 309	416 ... 554
Force at 6 bar and 60 mm stroke (N)	Extension	10 ... 120	14 ... 93	36 ... 202	36 ... 202
	Retraction	7 ... 117	130 ... 209	171 ... 337	416 ... 582

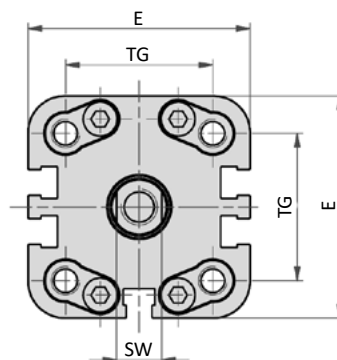
Model-no.:		NYE-050-xxx-2x0	NYE-063-xxx-2x0	NYE-080-xxx-2x0	NYE-100-xxx-2x0
Force at 6 bar and 5 mm stroke (N)	Extension	67 ... 75	89 ... 97	141 ... 150	202 ... 214
	Retraction	877 ... 885	1478 ... 1486	2395 ... 2404	3762 ... 3774
Force at 6 bar and 10 mm stroke (N)	Extension	59 ... 75	81 ... 97	133 ... 150	189 ... 214
	Retraction	877 ... 893	1478 ... 1494	2395 ... 2412	3762 ... 3787
Force at 6 bar and 15 mm stroke (N)	Extension	52 ... 75	73 ... 97	124 ... 150	177 ... 214
	Retraction	877 ... 900	1478 ... 1502	2395 ... 2421	3762 ... 3799
Force at 6 bar and 20 mm stroke (N)	Extension	44 ... 75	64 ... 97	115 ... 150	165 ... 214
	Retraction	877 ... 908	1478 ... 1511	2395 ... 2430	3762 ... 3811
Force at 6 bar and 25 mm stroke (N)	Extension	36 ... 75	56 ... 97	107 ... 150	152 ... 214
	Retraction	877 ... 916	1478 ... 1519	2395 ... 2438	3762 ... 3824
Force at 6 bar and 30 mm stroke (N)	Extension	28 ... 75	48 ... 97	98 ... 150	140 ... 214
	Retraction	877 ... 924	1478 ... 1527	2395 ... 2447	3762 ... 3836
Force at 6 bar and 35 mm stroke (N)	Extension	150 ... 276	150 ... 276	214 ... 402	380 ... 660
	Retraction	676 ... 802	1299 ... 1425	2143 ... 2331	3316 ... 3596
Force at 6 bar and 40 mm stroke (N)	Extension	132 ... 276	132 ... 276	187 ... 402	340 ... 660
	Retraction	676 ... 820	1299 ... 1443	2143 ... 2358	3316 ... 3636
Force at 6 bar and 50 mm stroke (N)	Extension	96 ... 276	96 ... 276	134 ... 402	260 ... 660
	Retraction	676 ... 856	1299 ... 1479	2143 ... 2411	3316 ... 3716
Force at 6 bar and 60 mm stroke (N)	Extension	60 ... 276	60 ... 276	80 ... 402	180 ... 660
	Retraction	676 ... 892	1299 ... 1515	2143 ... 2465	3316 ... 3796

Dimensions series NYE

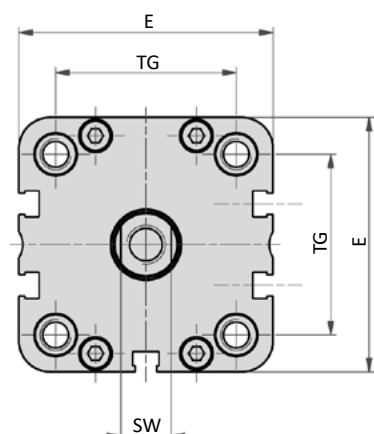
Ø 20 - 25



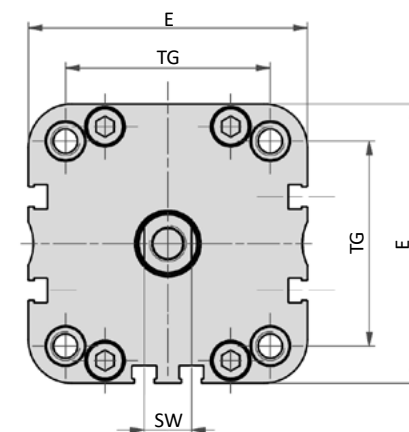
Ø 32



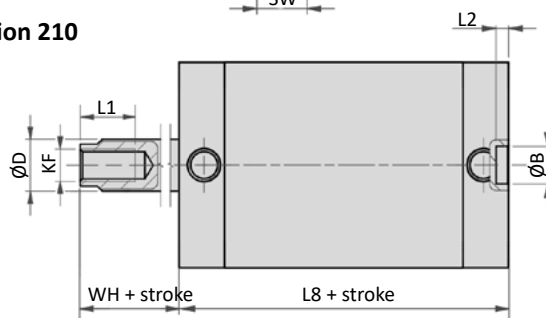
Ø 40 - 50



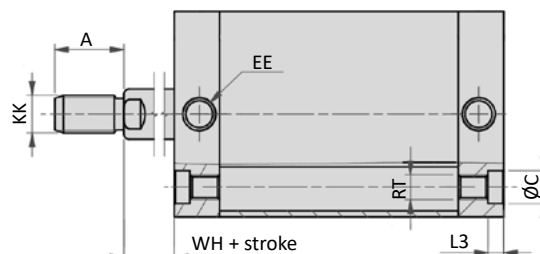
Ø 63 - 125



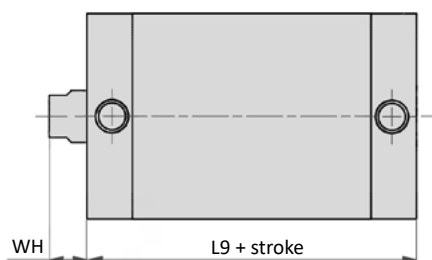
Version 210



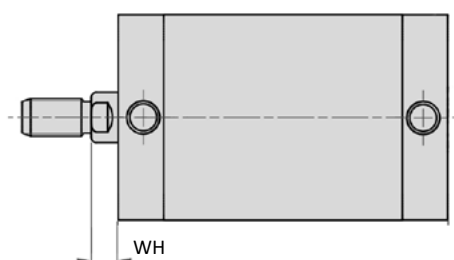
Version 200



Version 010



Version 000



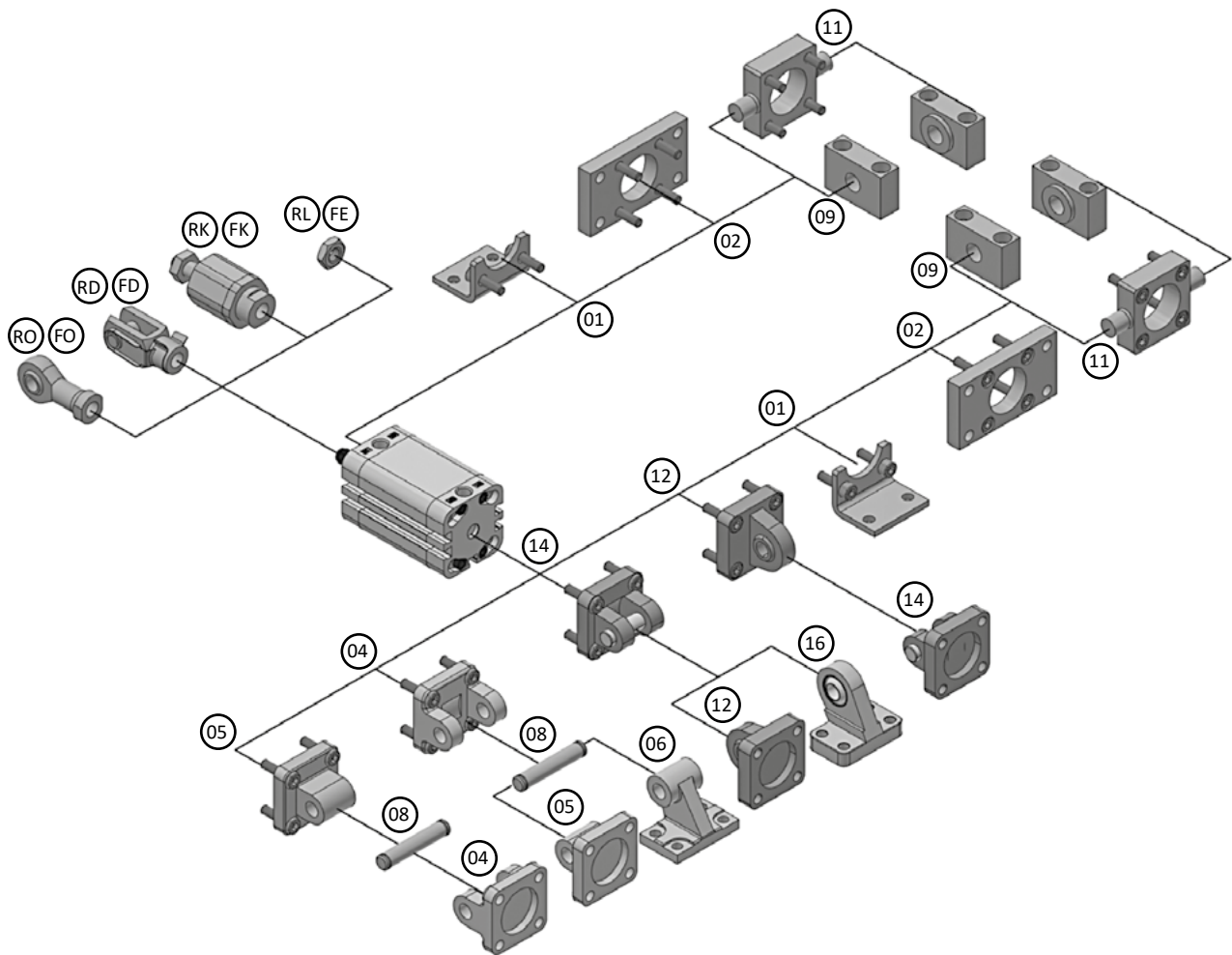
Piston Ø	A	Ø B	Ø C	Ø D	E	EE	KF	KK	L1	L2	L3	L8*	L8**	L9*	L9**	RT	SW	TG	WH
20	16	9	7.5	10	36	M5	M6	M8	15	3	4.5	37	47	37	47	M5	8	22	6.5
25	16	9	7.5	10	40	M5	M6	M8	15	3	4.5	39	49	39	59	M5	8	26	6
32	19	9	9	12	49	G1/8	M8	M10 x 1.25	16	3	5	44	54	44	64	M6	10	32.5	6.5
40	19	9	9	12	54.5	G1/8	M8	M10 x 1.25	16	3	5	45	55	45	65	M6	10	38	7
50	22	12	10.5	16	65.5	G1/8	M10	M12 x 1.25	17	4	5	45	55	45	65	M8	13	46.5	8
63	22	12	10.5	16	77	G1/8	M10	M12 x 1.25	17	4	5	49	59	49	69	M8	13	56.5	8
80	28	12	13.5	20	95.5	G1/8	M12	M16 x 1.5	20	4	3	54	74	54	84	M10	17	72	9
100	28	12	13.5	25	113.5	G1/8	M12	M16 x 1.5	20	4	3	67	87	67	97	M10	22	89	10
125	40	12	13.5	25	135	G1/4	M16	M20 x 1.5	25	4	-	81	-	81	-	M12	22	110	11

* up to 30 mm stroke, ** up from 35 mm stroke

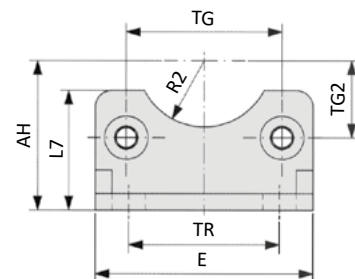
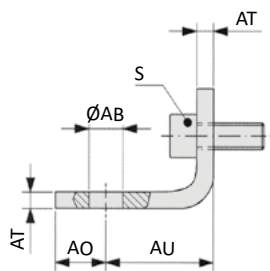
Series NYD

Mounting accessories

Mounting the add-on parts XLB-xxx-yy



XLB-xxx-01 Foot mount



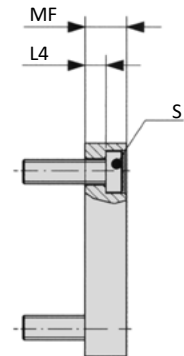
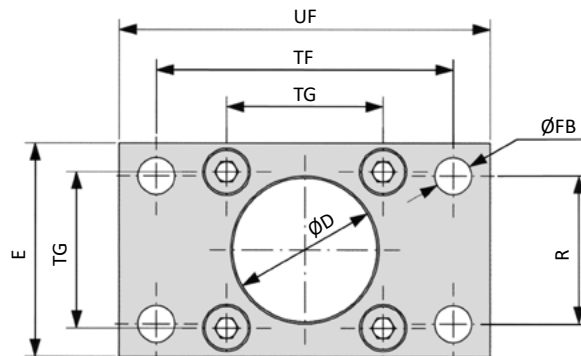
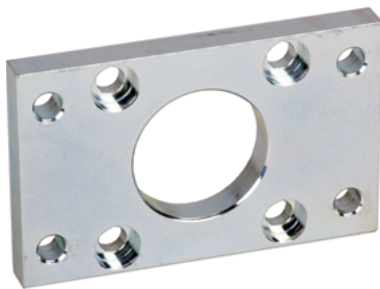
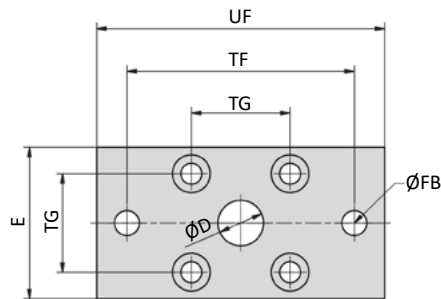
Model-no.:	Ø AB	AH	AO	AU	AT	E	L7	R2	S	TG	TG2	TR
NXB-020-01	6.5	27	6	16	4	36	11	10	M5 x 14	22	11	22
NXB-025-01	6.5	30	6	16	4	40	23	11	M5 x 14	26	13	26
XLB-032-01	7	32	11	24	4	45	30	15	M6 x 16	32.5	16.25	32
XLB-040-01	10	36	8	28	4	52	30	17.5	M6 x 16	38	19	36
XLB-050-01	10	45	15	32	5	65	36	20	M8 x 20	46.5	23.25	45
XLB-063-01	10	50	13	32	5	75	35	22.5	M8 x 20	56.5	28.25	50
XLB-080-01	12	63	14	41	6	95	47	22.5	M10 x 20	72	36	63
XLB-100-01	14.5	71	16	41	6	115	53	27.5	M10 x 20	89	44.5	75
XLB-125-01	16.5	90	25	45	8	140	70	30	M12 x 25	110*	55	90
<i>tolerances and adjustments</i>	H14	JS16		± 0.2				H15		± 0.2 *± 0.3		JS14

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

Series NYD

Mounting accessories

NXB-xxx-02, XLB-xxx-02 Flange mount



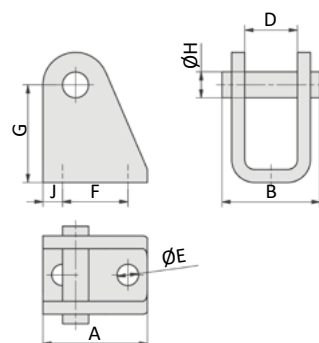
Model-no.:	Ø D	E	Ø FB	L4	MF	R	S	TF	TG	UF
NXB-020-02	12	36	6.6	4.6	10	-	M5 x 20	55*	22	70
NXB-025-02	12	40	6.6	4.6	10	-	M5 x 20	60*	26	76
XLB-032-02	30	45	7	5	10	32	M6 x 20	64	32.5	80
XLB-040-02	35	52	9	5	10	36	M6 x 20	72	38	90
XLB-050-02	40	65	9	6.5	12	45	M8 x 20	90	46.5	110
XLB-063-02	45	75	9	6.5	12	50	M8 x 20	100	56.5	120
XLB-080-02	45	95	12	9	16	63	M10 x 25	126	72	150
XLB-100-02	55	115	14	9	16	75	M10 x 25	150	89	170
XLB-125-02	60	140	16	10.5	20	90	M12 x 25	180	110*	205
<i>tolerances and adjustments</i>	H11		H13	- 0.5	JS14	JS14		*JS13 JS14	± 0.2 *± 0.3	

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

Series NYD

Mounting accessories

RC-xx Clevis mount



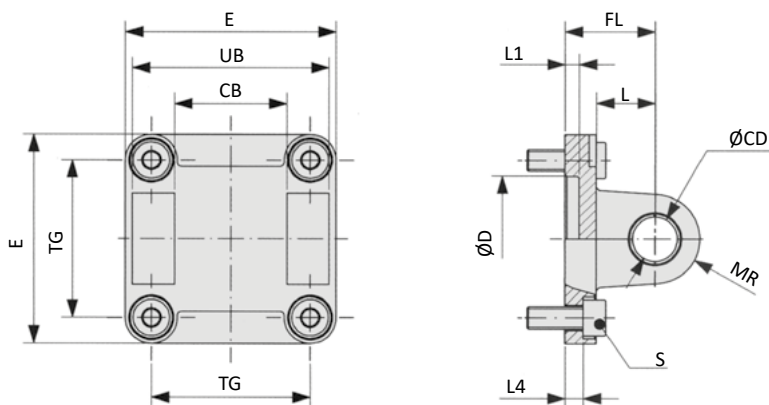
Model-no.:	A	B	D	Ø E	F	G	Ø H	J
RC-30	32	30	16.1	6.6	20	30	8	6

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

XLB-xxx-04 Clevis mount with bushing



Inclusive clevis pin
order no.: **XLB-xxx-48**



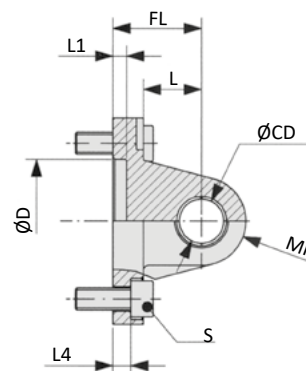
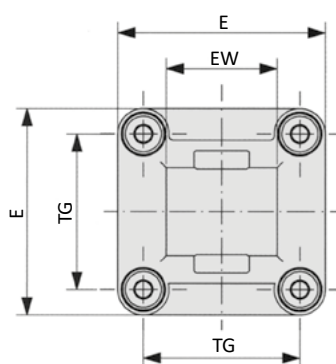
Model-no.:	CB	Ø CD	Ø D	E	FL	L	L1	L4	MR	S	TG	UB
XLB-032-04	26	10	30	45	22	13	5	5.5	10	M6 x 20	32.5	45
XLB-040-04	28	12	35	52	25	16	5	5.5	12	M6 x 20	38	52
XLB-050-04	32	12	40	65	27	16	5	6.5	12	M8 x 20	46.5	60
XLB-063-04	40	16	45	75	32	21	5	6.5	16	M8 x 20	56.5	70
XLB-080-04	50	16	45	95	36	22	5	10	16	M10 x 25	72	90
XLB-100-04	60	20	55	115	41	27	5	10	20	M10 x 25	89	110
XLB-125-04	70	25	60	140	50	30	7	10	25	M12 x 25	110*	130
<i>tolerances and adjustments</i>	H14	H9	H11		± 0.2			± 0.5			± 0.2 * ± 0.3	h13

Materials: Al, bushing steel and PTFE; 4 screws in accordance with EN ISO 4762 are included..

Series NYD

Mounting accessories

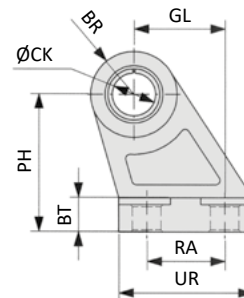
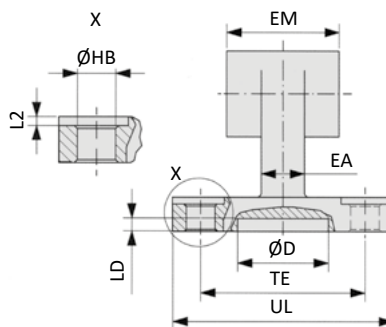
NXB-xxx-04, XLB-xxx-05 Swivel mount



Model-no.:	Ø CD	Ø D	E	EW	FL	L	L1	L4	MR	S	TG
NXB-020-04	8	12	34	16	20	14	3	2.6	8	M5 x 16	22
NXB-025-04	8	12	38	16	20	14	3	2.6	8	M5 x 16	26
XLB-032-05	10	30	45	26	22	13	5	5.5	10	M6 x 20	32.5
XLB-040-05	12	35	52	28	25	16	5	5.5	12	M6 x 20	38
XLB-050-05	12	40	65	32	27	16	5	6.5	12	M8 x 20	46.5
XLB-063-05	16	45	75	40	32	21	5	6.5	16	M8 x 20	56.5
XLB-080-05	16	45	95	50	36	22	5	10	16	M10 x 25	72
XLB-100-05	20	55	115	60	41	27	5	10	20	M10 x 25	89
XLB-125-05	25	60	140	70	50	30	7	10	25	M12 x 25	110*
tolerances and adjustments	H9	H11			± 0.2			± 0.5			± 0.2 *± 0.3

Materials: Al, bushing steel and PTFE (only XLB); 4 screws in accordance with EN ISO 4762 are included..

XLB-xxx-06 Swivel mount 90°



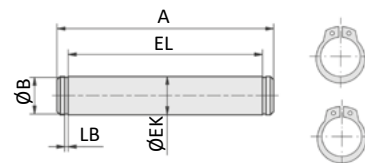
Model-no.:	BR	BT	ØCK	Ø D	EA	EM	GL	ØHB	L2	LD	PH	RA	TE	UL	UR
XLB-032-06	10	8	10	21	10	26	21	6.6	1.6	3	32	18	38	51	31
XLB-040-06	11	10	12	21	15	28	24	6.6	1.6	3	36	22	41	54	35
XLB-050-06	13	12	12	21	16	32	33	9	1.6	3	45	30	50	65	45
XLB-063-06	15	14	16	21	16	40	37	9	1.6	3	50	35	52	67	50
XLB-080-06	15	14	16	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
XLB-125-06	22.5	20	25	21	30	70	70	14	3.2	3	90	60	94	124	90
tolerances and adjustments			H9				JS14	H13			JS15	JS14	JS14		

Materials: Al, bushing steel and PTFE

Series NYD

Mounting accessories

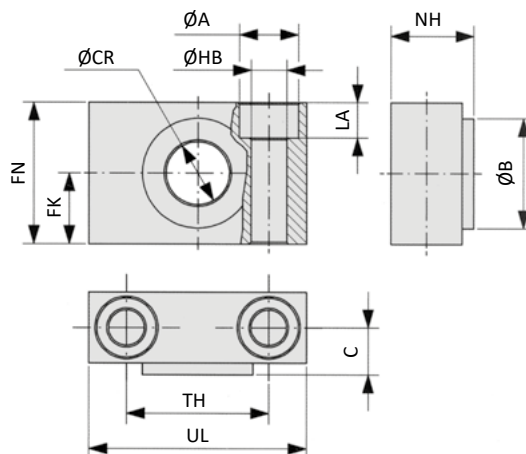
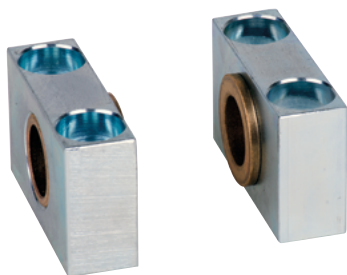
XLB-xxx-08 Clevis pin



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
XLB-125-08	139	23.9	25	132*	1.3
<i>tolerances and adjustments</i>			e8	+ 2 *+ 3	

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

XLB-xxx-09 Bearing block



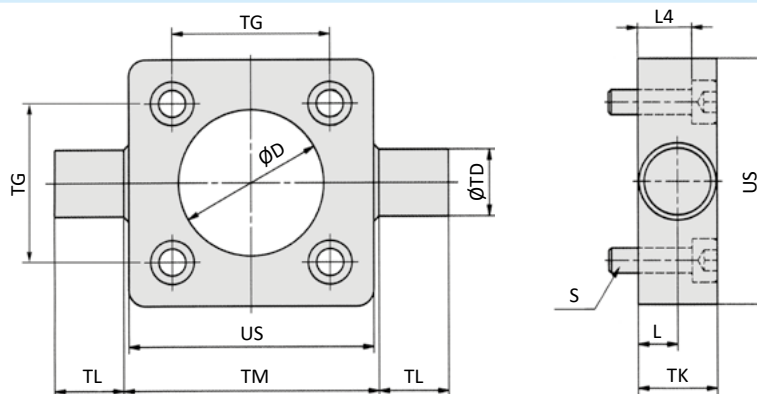
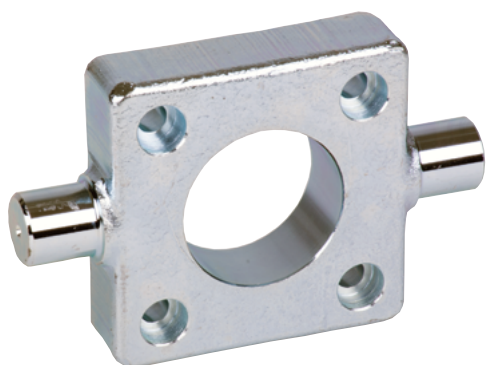
Model-no.:	for cylinder Ø	Ø A	Ø B	C	Ø CR	FK	FN	Ø HB	LA	NH	TH	UL
XLB-032-09	32	11	22	10.5	12	15	30	6.6	7	18	32	46
XLB-040-09	40. 50	15	28	12	16	18	36	9	9	21	36	55
XLB-063-09	63. 80	18	32	13	20	20	40	11	11	23	42	65
XLB-100-09	100. 125	20	39	16	25	25	50	14	13	28.5	50	75
<i>tolerances and adjustments</i>					H9	± 0.1		H13			± 0.2	

Materials: Al, bronze bushing

Series NYD

Mounting accessories

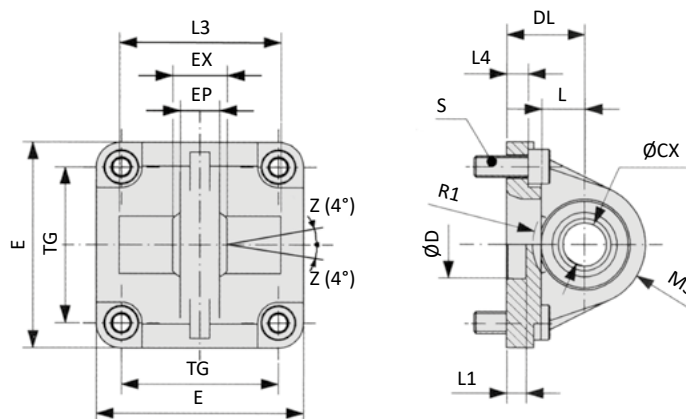
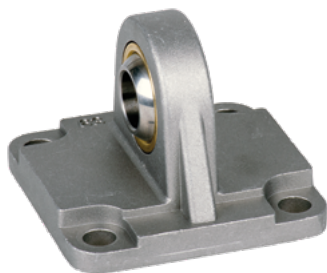
XLB-xxx-11 Trunnion mount



Model-no.:	Ø D	L	L4	S	Ø TD	TG	TK	TL	Ø TM	US
XLB-032-11	30	6.5	8	M6 x 20	12	32.5	14	12	50	46
XLB-040-11	35	9	13	M6 x 25	16	38	19	16	63	59
XLB-050-11	40	9	11	M8 x 25	16	46.5	19	16	75	69
XLB-063-11	45	11.5	16	M8 x 30	20	56.5	24	20	90	84
XLB-080-11	45	11.5	14	M10 x 30	20	72	24	20	110	102
XLB-100-11	55	14	19	M10 x 35	25	89	29	25	132	125
XLB-125-11	60	15	18	M12 x 35	25	110*	30	25	160	150
<i>tolerances and adjustments</i>	H 11	+ 0.2			e9	± 0.2 *± 0.3		h14	h14	

Materials: steel, zinc plated; 4 screws in accordance with EN ISO 4762 are included..

XLB-xxx-12 Swivel mount with spherical bearing



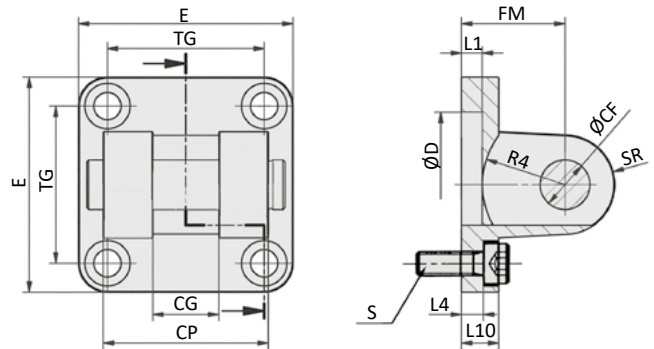
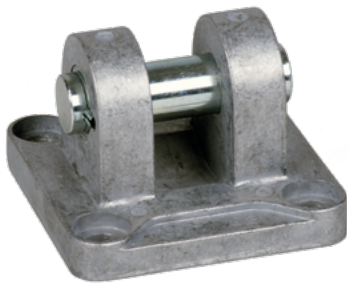
Model-no.:	Ø CX	Ø D	DL	E	EP	EX	L	L1	L3	L4	MS	R1	S	TG
XLB-032-12	10	30	22	45	10.5	14	12	7	-	5.5	16	-	M6 x 20	32.5
XLB-040-12	12	35	25	52	12	16	15	7	-	5.5	18	-	M6 x 20	38
XLB-050-12	16	40	27	65	15	21	15	7	51	6.5	21	19	M8 x 20	46.5
XLB-063-12	16	45	32	75	15	21	20	7	-	6.5	23	-	M8 x 20	56.5
XLB-080-12	20	45	36	95	18	25	20	9	74	10	28	24	M10 x 25	72
XLB-100-12	20	55	41	115	18	25	25	9	-	10	30	-	M10 x 25	89
XLB-125-12	30	60	50	140	25	37	30	9	-	10	40	-	M12 x 25	110*
<i>tolerances and adjustments</i>	H7	H11	± 0.2			± 0.1				± 0.5				± 0.2 *± 0.3

Materials: Al, bearing steel, bronze bushing; 4 screws in accordance with EN ISO 4762 are included..

Series NYD

Mounting accessories

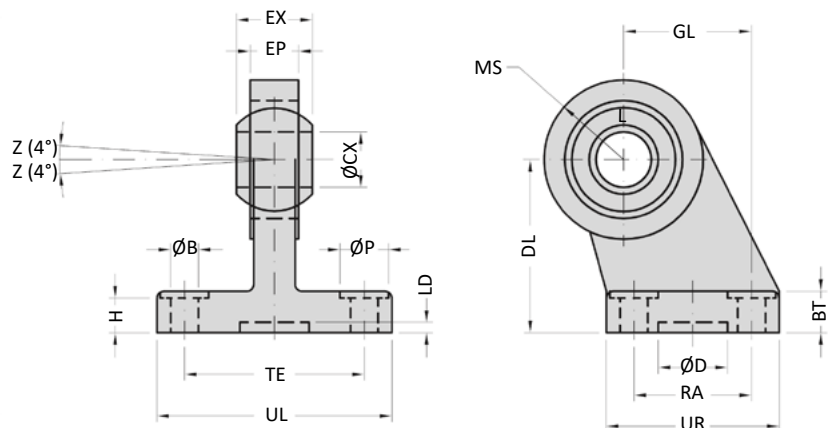
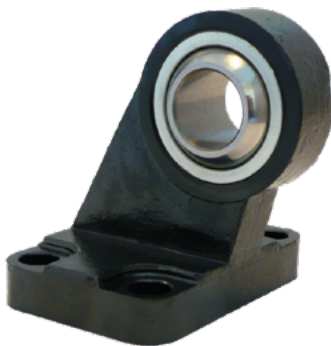
XLB-xxx-14 Clevis mount small with pin



Model-no.:	Ø CF	CG	CP	Ø D	E	FM	L1	L4	L10	R4	S	SR	TG
XLB-032-14	10	14	34	30	45	22	5	5.5	9	17	M6 x 20	10	32.5
XLB-040-14	12	16	40	35	52	25	5	5.5	9	20	M6 x 20	12	38
XLB-050-14	16	21	45	40	65	27	5	6.5	11	22	M8 x 20	14	46.5
XLB-063-14	16	21	51	45	75	32	5	6.5	11	25	M8 x 20	18	56.5
XLB-080-14	20	25	65	45	95	36	5	10	14	30	M10 x 25	20	72
XLB-100-14	20	25	75	55	115	41	5	10	14	32	M10 x 25	22	89
XLB-125-14	30	37	97	60	140	50	7	10	20	42	M12 x 25	25	110*
<i>tolerances and adjustments</i>	F7	D10	d12	H11		± 0.2		± 0.5					± 0.2 *± 0.3

Materials: Al, clevis pin steel, zinc plated; 4 screws in accordance with EN ISO 4762 are included..

XLB-xxx-16 Swivel mount with spherical bearing 90°



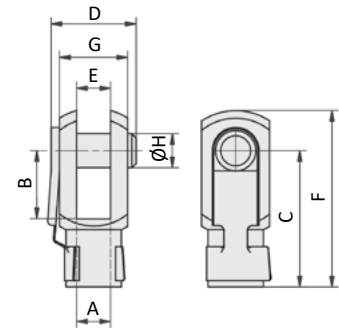
Model-no.:	Ø B	BT	ØCX	ØD	DL	EP	EX	GL	H	LD	MS	ØP	RA	TE	UL	UR
XLB-032-16	6.6	10	10	20	32	10.5	14	21	8.5	3	15	11	18	38	51	31
XLB-040-16	6.6	10	12	20	36	12	16	24	8.5	3	18	11	22	41	54	35
XLB-050-16	9	12	16	20	45	15	21	33	10.5	3	20	15	30	50	65	45
XLB-063-16	9	12	16	20	50	15	21	37	10.5	3	23	15	35	52	67	50
XLB-080-16	11	14	20	20	60	18	25	47	11.5	3	27	18	40	66	86	60
XLB-100-16	11	15	20	20	70	18	25	55	12.5	3	30	18	50	76	96	70
XLB-125-16	13.5	20	30	20	90	25	37	70	17	3	40	20	60	94	124	90
<i>tolerances and adjustments</i>	H13		H7	H13	JS15	max	0 - 0.1	JS15	+0.5 0		max	H13	JS14	JS14	max	max

Materials: steel, bearing steel, bronze bushing

Series NYD

Mounting accessories

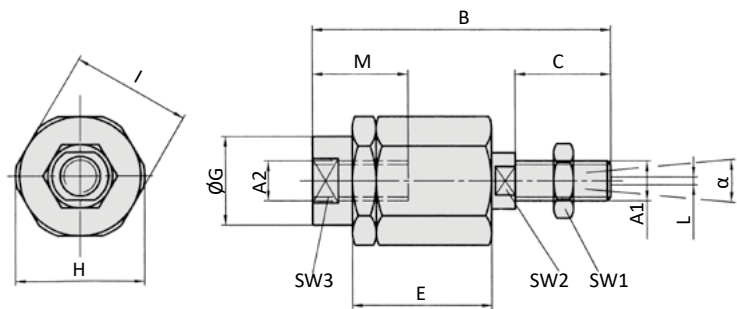
RD-xx, FD-xx Rod clevis



Model-no.:	for cylinder Ø	A	B	C	D	E	F	G	Ø H
RD-20	20, 25	M8	16	32	22	8	42	16	8
RD-25	32, 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, 100	M16 x 1.5	32	64	40	16	83	32	16
FD-80	125	M20 x 1.5	40	80	50	20	105	40	20

Materials: steel, zinc plated

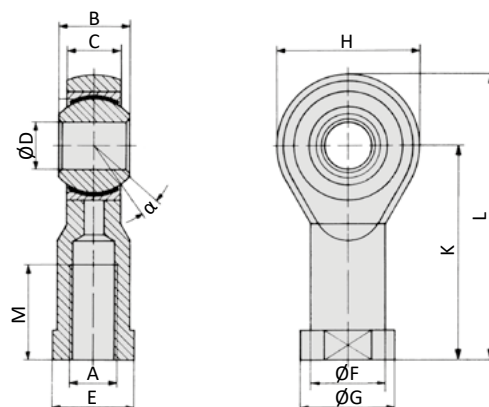
FK-xx Flexible coupling



Model-no.:	for cylinder	A1, A2	B	C	D	E	Ø G	H	I	L	M	SW1	SW2	SW3	α
FK-20	20, 25	M8	57	21	5	26	12.5	19	17	2	16	13	7	11	8°
FK-32	32, 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, 100	M16 x 1.5	104	32	10	53	32	45	41	2	30	24	20	27	6°
FK-80	125	M20 x 1.5	119	40	10	53	32	45	41	2	37	30	20	30	6°

Materials: steel, zinc plated

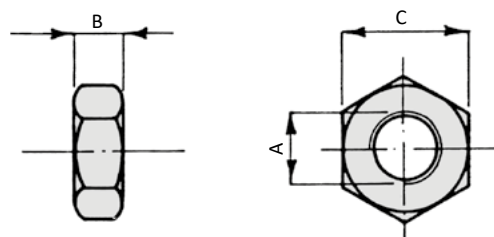
RO-xx, FO-xx Rod eye



Model-no.:	for cylinder	A	B	C	Ø D	E	Ø F	Ø G	H	K	L	M	α
RO-20	20, 25	M8	12	9	8	14	12.5	16	24	36	48	16	14°
RO-25	32, 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, 100	M16 x 1.5	21	15	16	22	22	27	42	64	85	28	15°
FO-80	125	M20 x 1.5	25	18	20	30	27.5	34	50	77	102	33	14°

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

RL-xx, FE-xx Piston rod nut



Model-no.:	for cylinder	A	B	C
RL-20	20, 25	M8	5	13
RL-25	32, 40	M10 x 1.25	5	17
FE-40	50, 63	M12 x 1.25	8	19
FE-63	80, 100	M16 x 1.5	8	24
FE-80	125	M20 x 1.5	10	30

Material: steel, zinc plated

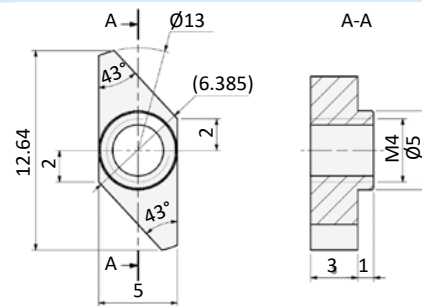
Series NYD

Mounting accessories

NST-T-4-U Slot nut



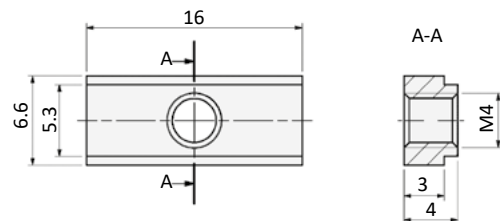
Materials: steel, zinc plated



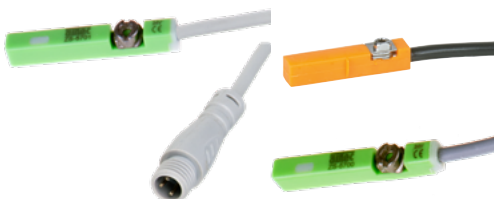
NST-T-4-V Slot nut



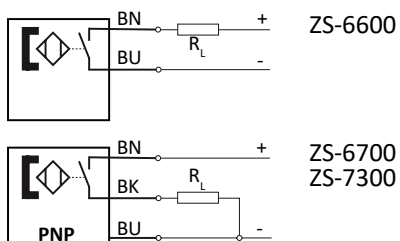
Materials: steel, zinc plated



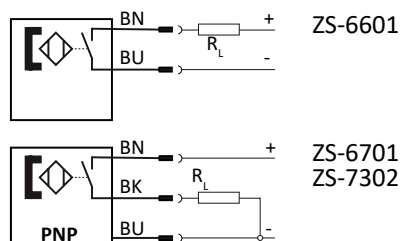
Proximity sensors



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

Model-no.:	ZS-7300	ZS-7302
Design	3-pole inductive	3-pole inductive
Contact function	NO	NO
Output	PNP	PNP
Rated operational voltage	10 ... 30 V DC	10 ... 30 V DC
Rated operational current I_E	≤ 100 mA	≤ 100 mA
Max. voltage drop at I_E	≤ 2.5	≤ 2.5
Breaking capacity	3 W	3 W
Cable length	6 m	0.3 m with M12 connection
Temperature range	-20 ... +60°C	-20 ... +60°C
Protection	IP 67	IP 67
Switching status indication	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

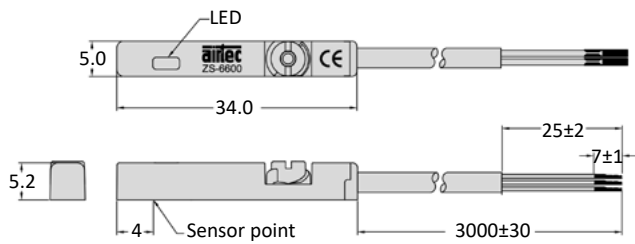
Series 88-ZS-C

Proximity sensors

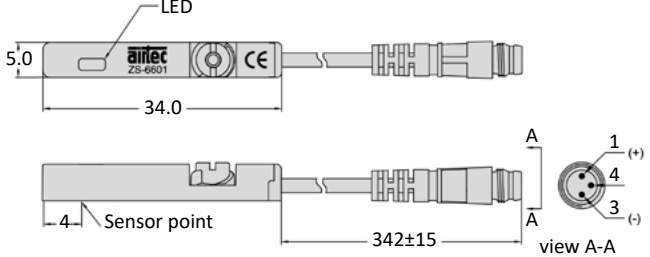


Dimensions

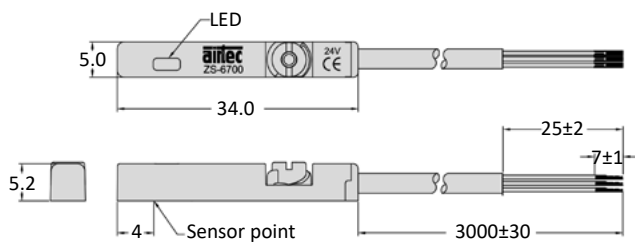
ZS-6600



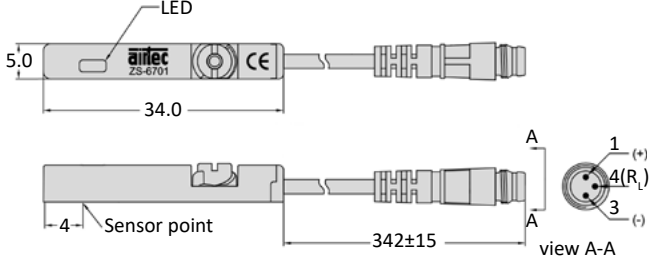
ZS-6601



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

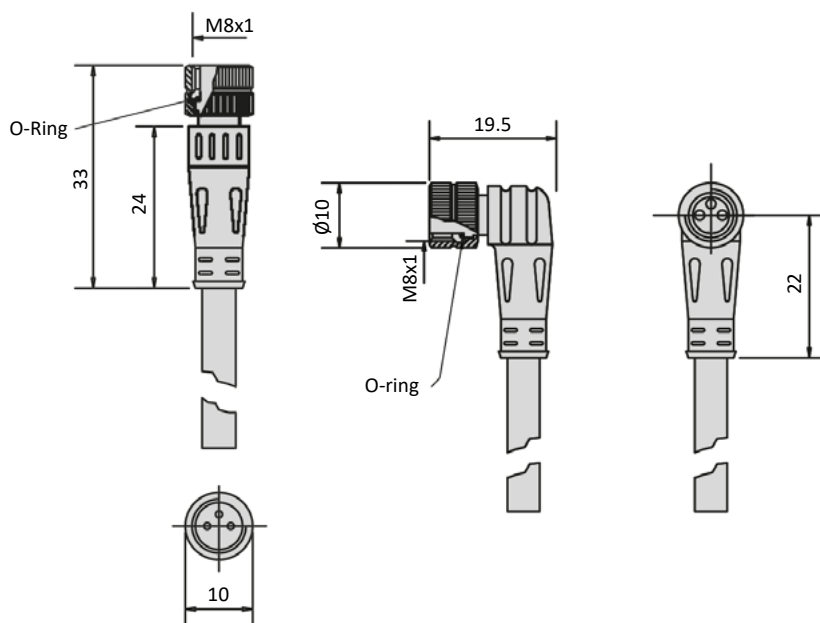
Contacts	M8 Plug socket
Protection	IP 67 according to EN 60529 in conjunction with suitable connection plug
Duty cycle	100 %
Temperature range*	-25°C...+90°C
max. voltage	60 V AC / DC
Use for	Solenoids with M8 plug, cylinder switch with M8 plug



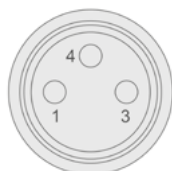
Model-no.:	KA-10-01	KA-30-01	KA-50-01	KA-100-01
Contacts	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight
Mounting	Coupling nut	Coupling nut	Coupling nut	Coupling nut
Cable	3-pin	3-pin	3-pin	3-pin
Length (L)	1 m	3 m	5 m	10 m

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 double piston rod	
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

Piston rod cylinders

Device marking

Piston rod cylinders are marked as follows:

II 2G Ex h IIB T4 Gb
 II 2D Ex h IIIC T120°C Db
-20°C T_{amb} +80°C

Marking according to DIN EN ISO 80079-36/ -37.

Piston rod cylinders conform to Equipment category 2 and can be used in Zone 1 respectively Zone 21.

Available cylinders

Series	Versions
NYE	5...60 mm stroke

Piston rod cylinders

Piston rod cylinders according ATEX are marked with following suffix:

-ATEX
-EX
-X

Accessories for piston rod cylinders

The cylinders are intended to be used with the following accessories:

Accessories	series
Flexible coupling	FK-Ø
Rod eye	FO-Ø, RO-Ø, PO-Ø (v _{max} 1 m/s)
Rod clevis	FD-Ø, RD-Ø, PD-Ø
Piston rod nut	FE-Ø, RL-Ø, PL-Ø
Mounting accessories XL	XLB-Ø-01, XLB-Ø-02, XLB-Ø-03, XLB-Ø-04, XLB-Ø-05, XLB-Ø-06, XLB-Ø-07, XLB-Ø-08, XLB-Ø-09, XLB-Ø-10, XLB-Ø-11, XLB-Ø-12, XLB-Ø-13, XLB-Ø-14,
Mounting accessories XG	VLB-Ø-01, VLB-Ø-02, VLB-Ø-03, VLB-Ø-04, VLB-Ø-05, VLB-Ø-06, VLB-Ø-08, VLB-Ø-09, VLB-Ø-12
Mounting accessories HM	RA-Ø, RC-Ø, RG-Ø, RH-Ø, RB-Ø, RM-Ø
Mounting accessories CM	PA-Ø, PC-Ø, PB-Ø, PM-Ø

Proximity switches

Model-No.	Classification / Identification marking
ZS-7300	II 3G Ex nA T4 II 3D Ex tD A22 IP67 T 125°C
ZS-7302	II 3D Ex tc IIIC T125°C Dc X



The operating instructions for the valve and the electrical equipment must be taken into account before putting into operation. These are included with each valve and are available at www.airtec.de.