

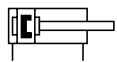
### Technical details

<b>Operating pressure</b>	1 ... 10 bar
<b>Temperature range</b>	-20°C ... +80°C (NYDH: -10°C ... +150°C)
<b>Medium</b>	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.
<b>Materials</b>	Cylinder tube: Al (anodized) End caps: Al-die-cast (painted) Piston rod: stainless steel Seals: PU, NBR (optional FKM)
	Cylinders in accordance with 2014/34/EU (ATEX) available. (Chapter 13)



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.

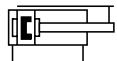
### Versions



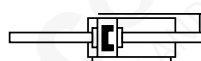
200, 210  
double acting, built-in cushioning rings, with magnetic piston



600, 610, 800, 810  
double acting, double end piston rod, built-in cushioning rings, with magnetic piston



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



620  
double acting, non rotating, double end piston rod, built-in cushioning rings, with magnetic piston

### Order code

Series		Options	
NYD	standard	ATEX	cylinders in accordance with 2014/34/EU (ATEX)
NYDH	high temperature version		
Piston Ø		Versions	
020	20 mm	200	standard version, male thread
025	25 mm	210	standard version, female thread
032	32 mm	220	non rotating
040	40 mm	620	non rotating
050	50 mm	202	high temperature version (with magnetic piston up to 80°C effective), male thread
063	63 mm	602	high temperature version (with magnetic piston up to 80°C effective), female thread
080	80 mm	212	high temperature version (with magnetic piston up to 80°C effective), female thread
100	100 mm	612	high temperature version (with magnetic piston up to 80°C effective), female thread
125**	125 mm	222	high temperature version (with magnetic piston up to 80°C effective), non rotating + female thread
622		622	high temperature version (with magnetic piston up to 80°C effective), non rotating + female thread
Stroke (mm)		800	double end, through hollow piston rod, male thread
XXX	max. stroke 250 mm (up to Ø 25 mm), 400 mm (up from Ø 32 mm)	810	double end, through hollow piston rod, female thread
Standard	5, 10, 15, 20, 25, 30, 40, 50, 60*, 80*		
* up from Ø 32 mm			
** only version 200 and 210			

Not all combinations are possible and available.

**Technical data**

Model-no.:	NYD-020-...	NYD-025-...	NYD-032-...	NYD-040-...	NYD-050-...	
Piston Ø (mm)	20	25	32	40	50	
Force at 6 bar (N)	Extension	170	265	434	678	1060
	Retraction	127	223	373	617	951
Connection	M5	M5	G1/8	G1/8	G1/8	
Piston rod thread	male	M8	M8	M10 x 1.25	M10 x 1.25	M12 x 1.25
	female	M6	M6	M8	M8	M10

Model-no.:	NYD-063-...	NYD-080-...	NYD-100-...	NYD-125-...	
Piston Ø (mm)	63	80	100	125	
Force at 6 bar (N)	Extension	1682	2713	4239	6623
	Retraction	1574	2543	3974	6345
Connection	G1/8	G1/8	G1/8	G1/4	
Piston rod thread	male	M12 x 1.25	M16 x 1.5	M16 x 1.5	M20 x 1.5
	female	M10	M12	M12	M16

Piston Ø (mm)	20	25	32	40	50	63	80	100
Weight (kg)								
0 mm stroke (-200)	0.143	0.178	0.240	0.301	0.471	0.661	1.066	1.793
0 mm stroke (-210)	0.131	0.166	0.217	0.278	0.435	0.625	0.996	1.722
each 10 mm stroke	0.024	0.028	0.029	0.030	0.048	0.057	0.088	0.115

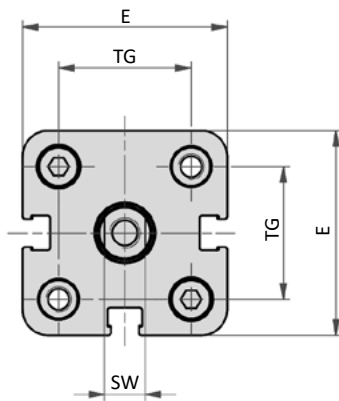
Piston Ø (mm)	20	25	32	40	50	63	80	100
Weight (kg)								
0 mm stroke (-220)	0.163	0.204	0.287	0.373	0.590	0.833	1.398	2.261
each 10 mm stroke	0.028	0.034	0.035	0.038	0.062	0.071	0.114	0.139

Piston Ø (mm)	20	25	32	40	50	63	80	100
Weight (kg)								
0 mm stroke (-600)	0.140	0.175	0.232	0.293	0.463	0.653	1.050	1.833
0 mm stroke (-610)	0.164	0.199	0.278	0.339	0.535	0.725	1.190	1.975
each 10 mm stroke	0.030	0.034	0.037	0.038	0.064	0.073	0.114	0.149

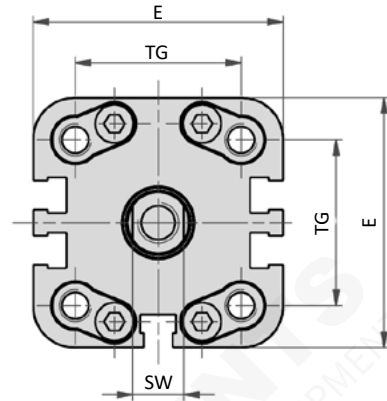
Piston Ø (mm)	20	25	32	40	50	63	80	100
Weight (kg)								
0 mm stroke (-620)	0.172	0.213	0.302	0.388	0.618	0.861	1.452	2.372
each 10 mm stroke	0.034	0.040	0.043	0.046	0.078	0.087	0.140	0.173

Dimensions series NYD (versions 200 and 210)

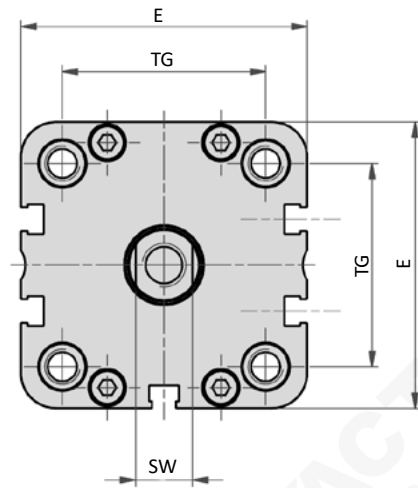
Ø 20 - 25



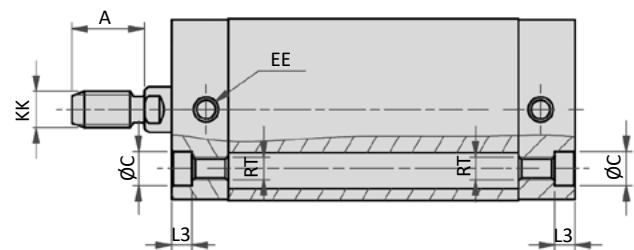
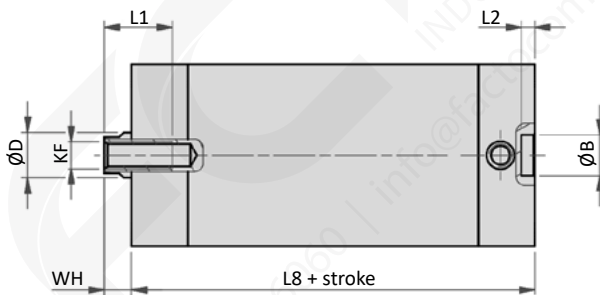
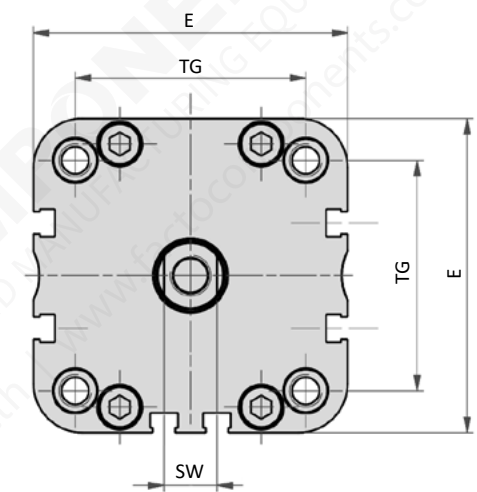
Ø 32



Ø 40 - 50



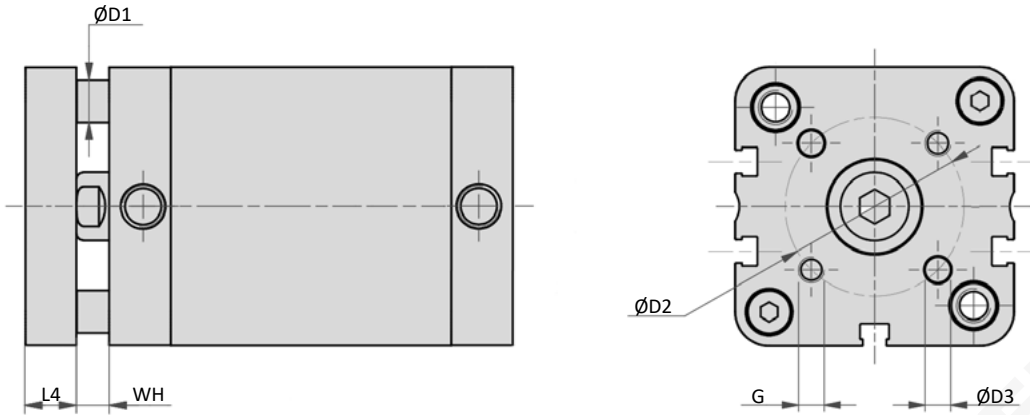
Ø 63 - 125



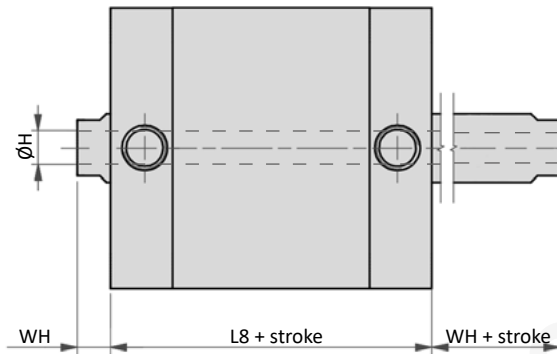
Piston Ø	A	Ø B	Ø C	Ø D	E	EE	KF	KK	L1	L2	L3	L8	RT	SW	TG	WH
20	16	9	7.5	10	36	M5	M6	M8	15	3	4.5	37	M5	8	22	6.5
25	16	9	7.5	10	40	M5	M6	M8	15	3	4.5	39	M5	8	26	6
32	19	9	9	12	49	G1/8	M8	M10 x 1.25	16	3	5	44	M6	10	32.5	6.5
40	19	9	9	12	54.5	G1/8	M8	M10 x 1.25	16	3	5	45	M6	10	38	7
50	22	12	10.5	16	65.5	G1/8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

**Dimensions series NYD (versions 220, 600, 610, 620, 800 and 810)**

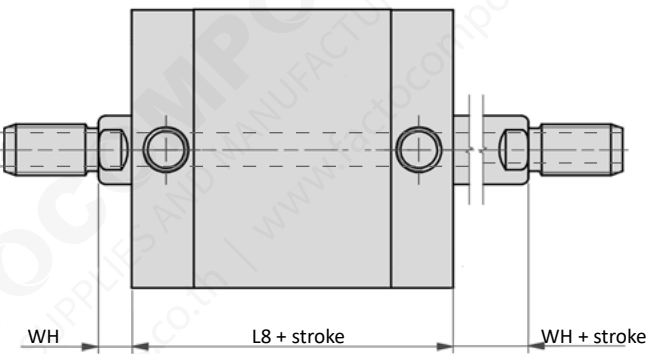
**Version 220**



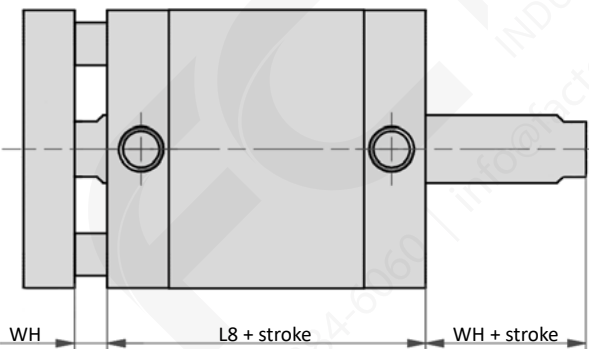
**Versions 610, 810**



**Versions 600, 800**



**Version 620**



Piston $\varnothing$	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	G	$\varnothing H^*$	L4	L8	WH
20	5	17	4	M4	4	8	37	6.5
25	6	22	5	M5	4	8	39	6
32	6	28	5	M5	5	10	44	6.5
40	8	33	5	M5	5	10	45	7
50	10	42	6	M6	6	12	45	8
63	10	50	6	M6	6	12	49	8
80	14	65	8	M8	8	14	54	9
100	14	80	10	M10	10	14	67	10

\* only for versions 800 and 810