

Series ND

double acting

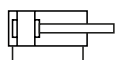
Technical details

Operating pressure	1 ... 10 bar
Temperature range	-20°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. Alternatively the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	Cylinder tube: Al (anodized) End caps: Ø12 -25: brass Ø32 -100: Al (anodized) Piston rod: stainless steel Seals: PU, NBR



Double acting pneumatic cylinder with built-in cushioning rings.

Versions



ND
double acting, built-in cushioning rings

Order code

Series		Stroke (mm)	
ND	standard	XXX	max. 250 mm *
Piston-Ø			
012	12 mm		
016	16 mm		
020	20 mm		
025	25 mm		
032	32 mm		
040	40 mm		
050	50 mm		
063	63 mm		
080	80 mm		
100	100 mm		

ND-*-*****

* up to Ø 25 stroke max. 50 mm,
from Ø 32 up to Ø 63 stroke max. 100 mm

Series ND

double acting

Technical data

Model-no.:	ND-012-...	ND-016-...	ND-020-...	ND-025-...	ND-032-...	
Piston Ø (mm)	12	16	20	25	32	
Force at 6 bar (N)	Extension	58	114	176	277	462
	Retraction	42	84	129	230	392
Connection	M5	M5	M5	G1/8	G1/8	
Piston rod thread	M3	M4	M5	M5	M6	

Model-no.:	ND-040-...	ND-050-...	ND-063-...	ND-080-...	ND-100-...	
Piston Ø (mm)	40	50	63	80	100	
Force at 6 bar (N)	Extension	763	1110	1770	2990	4650
	Retraction	663	990	1650	2800	4370
Connection	G1/8	G1/8	G1/8	G1/4	G1/4	
Piston rod thread	M6	M8	M8	M10	M12	

Dimensions series ND

Piston-Ø	A	B	ØD	D1	ØD3	ØD4	E	G	H	H3	I1
12	25	25	6	M3	3,7	5,6	-	M5	17	5,5	15,5
16	34	30	8	M4	5,6	7,5	19	M5	27*	8	-
20	40	36	10	M5	5,8	9	22	M5	27*	8	-
25	44,5	40	10	M5	5,8	9	24,5	G1/8	28,5**	10,5	-
32	51	46	12	M6	5,8	9	27	G1/8	29,5	11,5	36
40	58	55	12	M6	5,8	9	30,5	G1/8	29,5	11	42
50	70	65	16	M8	6,8	11	37,5	G1/8	34,5	11,5	50
63	89	80	16	M8	9	14	46	G1/8	37	11	62
80	105	100	20	M10	9	14	55	G1/4	46	14	82
100	131	124	25	M12	11	17,2	69	G1/4	56	16	103

* for strokes 30, 40 and 50 mm: H = 28, ** for strokes 40 and 50 mm: H = 29,5

Piston-Ø	I2	I3	I5	I6	K	L	L1	N	P	W
12	-	-	-	-	5	3,5	-	-	7	3,5
16	18	12	20	10	6	4,6	3,5	32	11	4,5
20	20	15	25,5	12,7	8	5,7	5,7	38,5	12	5
25	26	15,5	28	14	8	5,7	5,7	42	12	5,5
32	32	-	34	-	10	5,7	-	48	15	6
40	42	-	40	-	10	5,7	-	55	15	6
50	50	-	50	-	13	6,8	-	65	17	7,5
63	62	-	60	-	13	8,8	-	80	17	7
80	82	-	77	-	17	9	-	100	17	8
100	103	-	94	-	22	11	-	124	22	10

Dimensions series ND

