Piston rod cylinder → Supplementary products

Round cylinder, Series ICS-D1-MR3

► Ø 32 - 100 mm ► double-acting ► with magnetic piston ► cushioning: pneumatically, adjustable ► acid-proof ► cylinder outer thread with mounting nut ► suitable for use in food processing

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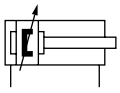

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Working pressure min./max.	1 bar / 10 bar
Ambient temperature min./max.	-25°C / +70°C
Medium temperature min./max.	-25°C / +70°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³
Pressure for determining piston forces	6,3 bar

Materials:	
Cylinder tube	Stainless steel, acid-proof
Piston rod	Stainless steel, acid-proof
Front cover	Stainless steel, acid-proof
End cover	Stainless steel, acid-proof
Seal	Acrylonitrile Butadiene Rubber
Nut for cylinder mounting	Stainless steel, acid-proof
Nut for piston rod	Stainless steel, acid-proof
Scraper	Polyethylene
Lubricant	ISO 21469 (NSF-H1)

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary

Piston Ø		**[mm]**	**32**	**40**	**50**	**63**	**80**
Retracting piston force		[N]	435	665	1039	1766	2857
Extracting piston force		[N]	507	792	1237	1964	3167
Cushioning length		[mm]	11.5	14	17	16	19
Cushioning energy		[J]	2.4	4.5	7.5	13.5	54
Weight	0 mm stroke	[kg]	0.6	1.2	1.7	3	4
	+10 mm stroke	[kg]	0.025	0.036	0.05	0.065	0.1
Stroke max.		[mm]	480	600	750	945	1200

Piston Ø		**[mm]**	**100**				
Retracting piston force		[N]	4639				
Extracting piston force		[N]	4948				
Cushioning length		[mm]	22				
Cushioning energy		[J]	88				
Weight	0 mm stroke	[kg]	7.7				
	+10 mm stroke	[kg]	0.135				
Stroke max.		[mm]	1500				

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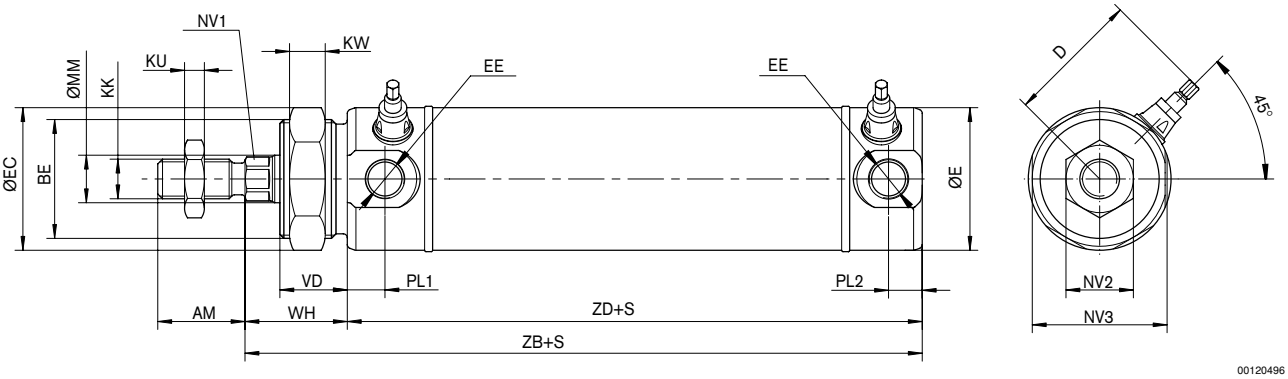
Configurable product	
	This product is configurable. Please use our Internet configurator at www.boschrexroth.com/pneumatics or contact the nearest Bosch Rexroth sales office.

Threaded neck with nut, MR3, Piston Ø 32 - 100



S = stroke, tolerance Ø 32–50 mm = +2/-0, Ø 63–100 mm = +2.5/-0. The cylinder is supplied with piston rod nuts in accordance with ISO 4035; DIN 439.

Ø	AM	BE	D 1)	Ø E	EC	EE	KK	KU	KW	MM g8	NV1	NV2	NV3
32	22	M30x1,5	34	36	36	G 1/8	M10x1,25	5	10	12	10	17	34
40	24	M35x1,5	38	44	45	G 1/4	M12x1,25	6	10	16	13	18	42
50	32	M40x1,5	50	54	52	G 1/4	M16x1,5	8	10	20	17	24	48
63	32	M45x1,5	57	68	58	G 3/8	M16x1,5	8	12	20	17	24	54
80	40	M55x1,5	70.5	86	80	G 3/8	M20x1,5	10	13	25	22	30	72
100	40	M65x1,5	80.5	106	90	G 1/2	M20x1,5	10	15	25	22	30	85

Ø	PL1	PL2	VD	WH	ZB	ZD								
32	9.5	8.5	17	26	121	95								
40	11	11	25	35	143	108								
50	12	12	25	35	150	115								
63	14	13.5	30	40	165	125								
80	14	14	30	42	184	142								
100	20	19	30	42	198	156								

1) max.