

# Pneumatic round cylinders

DIN ISO 6432, double-acting with magnetic piston



### Material:

Cylinder tube: stainless steel 1.4301.  
Endcap: aluminium.  
Piston rod: stainless steel 1.4305.  
Piston and piston rod seal: polyurethane, NBR.  
Cylinder piston: brass.  
Piston rod guide bush: sintered bronze.

### Version:

Cylinder tube: bright.  
Endcap: anodised.  
Piston rod: bright.

### Sample order:

nIm 12002-010025

### Note:

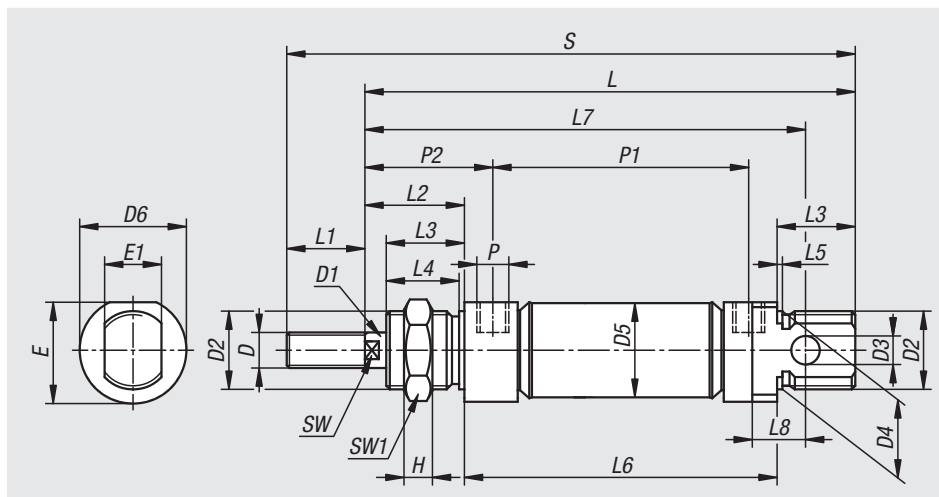
Double-acting pneumatic cylinder acc. to DIN ISO 6432. Piston rod with external thread, position detection for proximity switch and flexible damping on both sides.

### Temperature range:

-20 °C to +80 °C.

### Technical data:

Operating principle: double-acting.  
Operating medium: filtered and dried air, oiled or not oiled.  
Operating pressure: 1 to 10 bar.  
Damping: flexible damping on both sides, adjustable.  
Mounting position: arbitrary.  
Position detection for proximity switch.  
Pneumatic connection: DIN EN ISO 228/1.



Order No.	Cylinder Ø	Travel S	D	D1	D2	D3	D4	D5	D6	E	E1	H	L	L1	L2	L3
12002-010010	10	10	M4	4	M12x1,5	4	12	11,3	16	15	8	7	84	12	16	12
12002-010025	10	25	M4	4	M12x1,5	4	12	11,3	16	15	8	7	99	12	16	12
12002-012010	12	10	M6	6	M16x1,5	6	16	13,3	19	18	12	5	98	16	22	18
12002-012025	12	25	M6	6	M16x1,5	6	16	13,3	19	18	12	5	113	16	22	18
12002-016010	16	10	M6	6	M16x1,5	6	16	17,3	19	18	12	5	103	16	22	18
12002-016025	16	25	M6	6	M16x1,5	6	16	17,3	19	18	12	5	118	16	22	18
12002-016050	16	50	M6	6	M16x1,5	6	16	17,3	19	18	12	5	143	16	22	18
12002-020010	20	10	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	121	20	24	20

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12002-020025	20	25	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	136	20	24	20
12002-020050	20	50	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	161	20	24	20
12002-020080	20	80	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	191	20	24	20
12002-020100	20	100	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	211	20	24	20
12002-020125	20	125	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	236	20	24	20
12002-020160	20	160	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	271	20	24	20
12002-020200	20	200	M8	8	M22x1,5	8	22	21,3	27	25,5	16	8	311	20	24	20
12002-025010	25	10	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	128	22	28	22
12002-025025	25	25	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	143	22	28	22
12002-025050	25	50	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	168	22	28	22
12002-025080	25	80	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	198	22	28	22
12002-025100	25	100	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	218	22	28	22
12002-025125	25	125	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	243	22	28	22
12002-025160	25	160	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	278	22	28	22
12002-025200	25	200	M10x1,25	10	M22x1,5	8	22	26,5	30	28,5	16	8	318	22	28	22

Order No.	L4	L5	L6	L7	L8	P	P1	P2	SW	SW1	Piston force at 6 bar (N)	Retraction force at 6 bar (N)
12002-010010	11	1	56	74	6	M5	46	21	-	19	40	32
12002-010025	11	1	71	89	6	M5	61	21	-	19	40	32
12002-012010	16,5	1,5	58	85	9	M5	48	27	5	22	54	37
12002-012025	16,5	1,5	73	100	9	M5	63	27	5	22	54	37
12002-016010	16,5	1,5	63	92	9	M5	54	27	5	22	105	88
12002-016025	16,5	1,5	78	107	9	M5	69	27	5	22	105	88
12002-016050	16,5	1,5	103	132	9	M5	94	27	5	22	105	88
12002-020010	18,5	1,5	77	105	12	G1/8	61,5	32	7	27	172	142
12002-020025	18,5	1,5	92	120	12	G1/8	76,5	32	7	27	172	142
12002-020050	18,5	1,5	117	145	12	G1/8	101,5	32	7	27	172	142
12002-020080	18,5	1,5	147	175	12	G1/8	131,5	32	7	27	172	142
12002-020100	18,5	1,5	167	195	12	G1/8	151,5	32	7	27	172	142
12002-020125	18,5	1,5	192	220	12	G1/8	176,5	32	7	27	172	142
12002-020160	18,5	1,5	227	255	12	G1/8	211,5	32	7	27	172	142
12002-020200	18,5	1,5	267	295	12	G1/8	251,5	32	7	27	172	142
12002-025010	20,5	1,5	78	114	12	G1/8	62	36	9	27	265	218
12002-025025	20,5	1,5	93	129	12	G1/8	77	36	9	27	265	218
12002-025050	20,5	1,5	118	154	12	G1/8	102	36	9	27	265	218
12002-025080	20,5	1,5	148	184	12	G1/8	132	36	9	27	265	218
12002-025100	20,5	1,5	168	204	12	G1/8	152	36	9	27	265	218
12002-025125	20,5	1,5	193	229	12	G1/8	177	36	9	27	265	218
12002-025160	20,5	1,5	228	264	12	G1/8	212	36	9	27	265	218
12002-025200	20,5	1,5	268	304	12	G1/8	252	36	9	27	265	218