

3 Description of DIN ISO 6431 VDMA 24562 pneumatic cylinders

- Series 40: pneumatic cylinder with piston rod at one end to DIN 150 6431
- Series 47: pneumatic cylinder with continuous piston rod to DIN 150 6431
- Series 42: pneumatic cylinder with piston rod locked to prevent rotating to DIN 6431
- Series 43: pneumatic multi-position cylinder with components from the Series 40

The Series 40 was designed to ISO Standard 6431 so that the component parts can also be used for the 42/43/47 variant. Standard version in this series is the magnetic version with a permanent magnet integrated in the piston for contactless detection, suitable for sensors and Reed switches from well-known manufacturers. A section tube is used for the cylinder. This achieves an optimal construction of the pneumatic cylinder with regard to contamination and design. The pneumatic cylinder end positions are fitted with adjustable end-position dampers. The adjustment bolts are located on the connection side and are adjustable by means of Allen keys. The adjustment bolts are locked against unscrewing.

Acting: double-acting, adjustable end-position dampers

Operating pressure: 1 to 16 bar

Medium: Filtered compressed air, oil-bearing, or not oil-bearing

Temperature: -20°C to +80°C

Strokes: suppliable from 1 to 2000 mm (intermediate strokes with no additional charge)

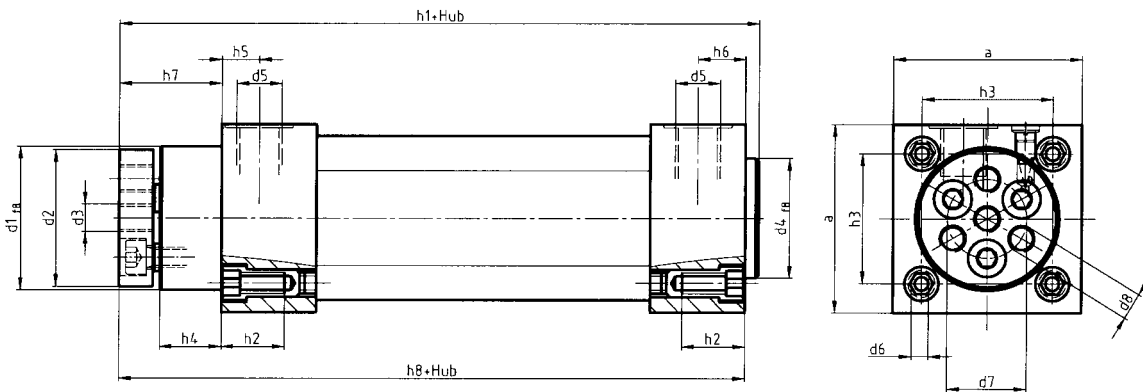
Material: piston rod: stainless steel; cylinder: aluminium section anodized, front and end pieces and piston: aluminium; seals: polyurethane

4.5 Series 42 Ø 32-100 mm pneumatic cylinder locked to prevent rotating

Ordering example		<p>You can choose a customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.</p> <p>We can design, construct and manufacture customized solutions and assemblies to your specifications. You will find our form for customized solutions at the end of this catalogue. It will help you with your inquiry.</p>
Pneumatic cylinder	1 - 40 050 51 0250 - 0	
Series		
Piston dia.		
Attachment type		
Stroke in mm		
Special version		

Special versions

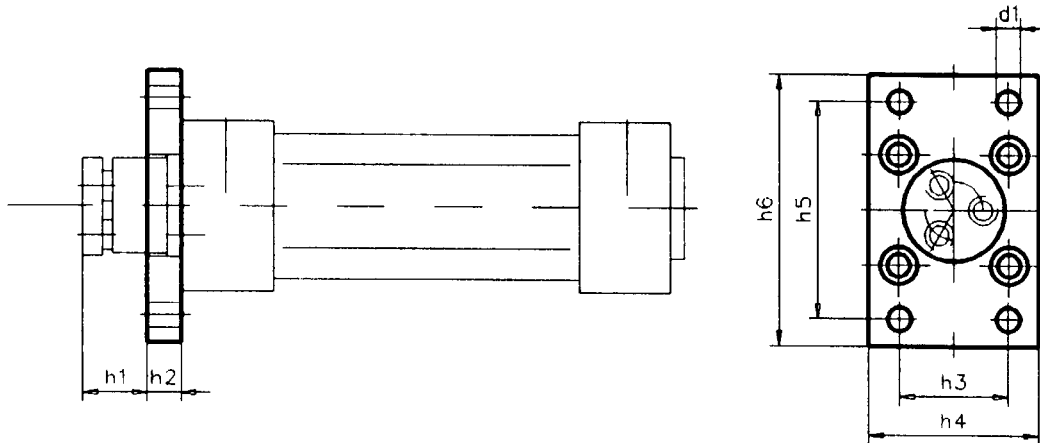
- 0 = Without
 - 1 = Magnetic piston + one proximity switch mounted
 - 2 = Magnetic pistons + two proximity switches mounted
 - M = Magnetic piston
 - D = Heat-resistant seals up to 180°C
 - K = Customized solution
- Simply request any other combination.



Piston Ø	d _{1 f8}	d ₂	d ₃	d _{4 f8}	d ₅	d ₆	d ₇	d ₈	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	a
32	34	32	M8	30	G1/8	M6	17.5	M8	124	18	32.5	16	9.5	13	26	120	50
40	42	40	M8	35	G1/4	M6	23	M8	139	18	38	18	11	14	30	135	55
50	50	48	M16x1.5	40	G1/4	M8	31	M8	147	20	46.5	23	14	14	37	143	65
63	65	63	M16x1.5	45	G3/8	M8	40	M8	162	20	56.5	23	16	16	37	158	75
80	82	80	M20x1.5	45	G3/8	M10	52	M8	178	23	72	28	16	16	46	174	95
100	95	101	M20x1.5	55	G1/2	M10	70	M8	193	23	89	32	18	18	51	189	110

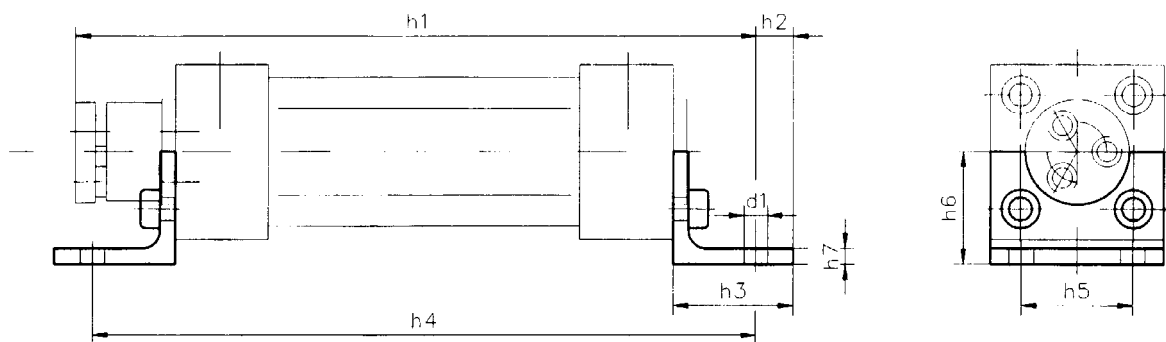
4.6 Attachment types for Series 42

4.6.1 Attachment 57 Flange attachment, front



Part No.	Piston Ø	d ₁	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆
00023-09	32	7	16	10	32	50	64	80
00023-10	40	9	20	10	36	55	72	90
00023-11	50	9	25	12	45	65	90	110
00023-12	63	9	25	12	50	75	100	120
00023-13	80	12	30	16	63	95	126	150
00023-14	100	14	35	16	75	110	150	180

4.6.2 Attachment 54 Foot attachment



Part No.	Piston Ø	d ₁	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇
00023-15	32	7	144	11	35	142	32	32	4.5
00023-16	40	9	163	15	43	161	36	36	4.5
00023-17	50	9	175	15	47	170	45	45	5.5
00023-18	63	9	190	15	47	185	50	50	5.5
00023-19	80	12	215	20	61	210	63	63	6.5
00023-20	100	14	230	25	66	220	75	71	6.5