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1 Cylinders to company standard

1.1 Series 10 Ø8-25 mm double-acting

Technical features

Function	Double-acting	Stroke lengths	Freely selectable stroke lengths, max. 500 mm
Design	Compact cylinder, front and end pieces bolted to cylinder, therefore these cylinders are repairable.	PistonsØ	8, 12, 16, 20, 25 mm
We keep sets of seals for you in stock.		Connections	8 = M5, 12 = M5, 16 = G1/8", 20 = G1/8", 25 = G1/8"
Seals:	Perbunan; Viton: additional price	Any fitting position	
Materials	Piston rod: stainless steel; cylinder: hard-coated aluminium; front and end pieces: aluminium	Temperature	-20°C to +80°C
Damper	Vulkollan rings in end positions	Medium	Filtered, oil-bearing or oil-free compressed air
		Operating pressure	1 to 10 bar

Customized solutions on request

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

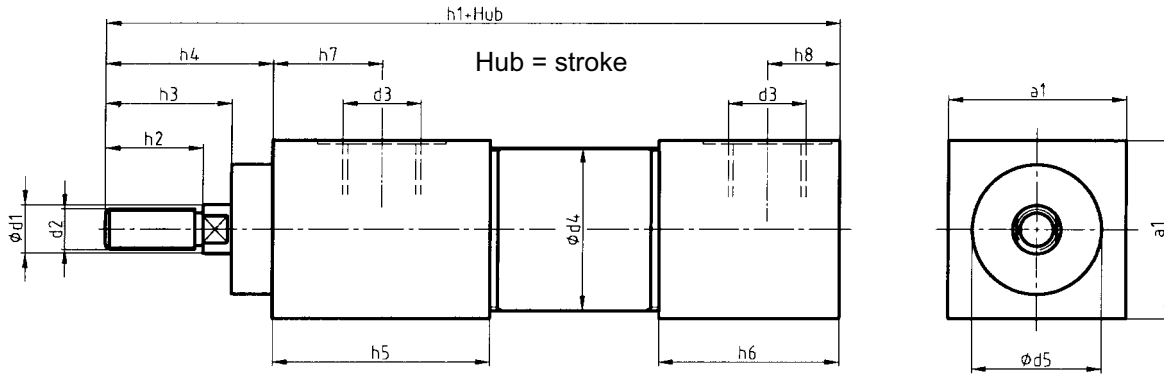
You can choose a **customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series** for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

Special versions

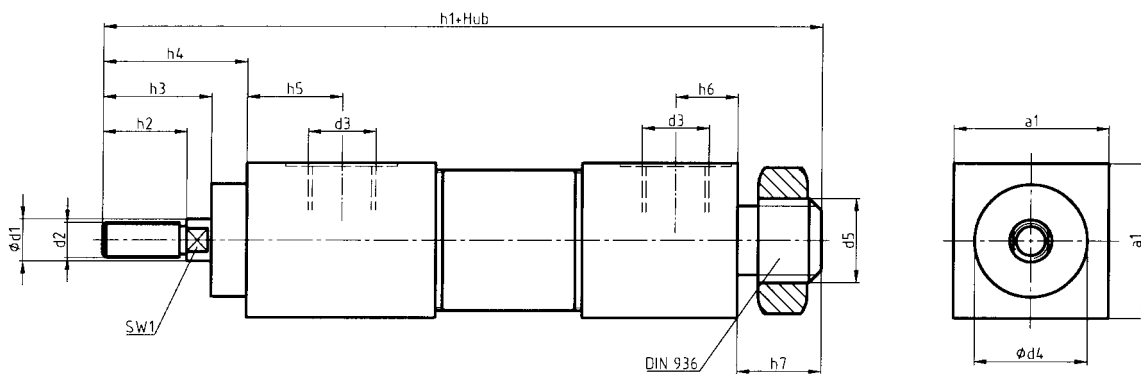
- 0 = Without
 - 1 = Magnetic piston + one proximity switch mounted
 - 2 = Magnetic pistons + two proximity switches mounted
 - M = Magnetic piston
 - D = Heat-resistant seals up to 180°C
 - K = Customized solution
- Simply request any other combination.

1.1.1 Attachment 51 Basic version



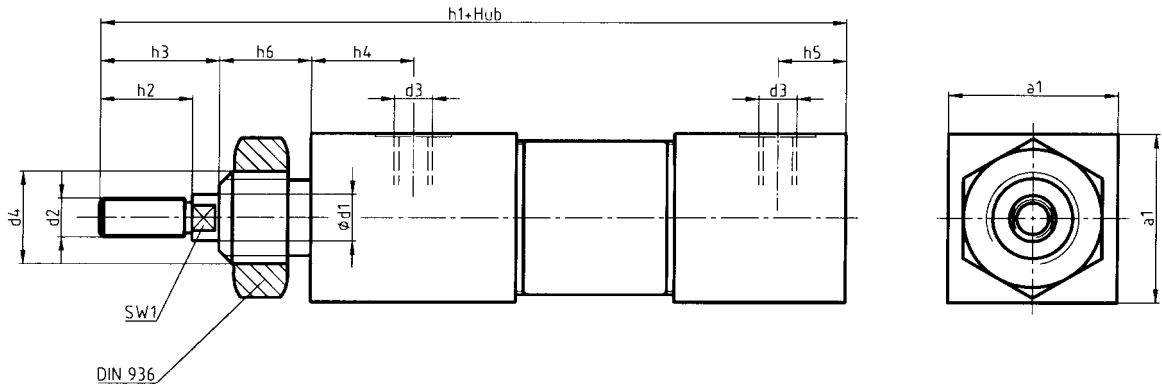
Piston Ø	Ø d ₁	d ₂	d ₃	Ø d ₄	Ø d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	a ₁	sw ₁
8	3	M3	M5	12	9.5	44	6	7	10	18	14	9	5	14	-
12	5	M5	M5	16	13	51	11	12	15	22	16	11	5	19	-
16	6	M5	G ¹ / ₈	20	16	71	12	15.5	20.5	27	22.5	13.5	9	22	5
20	8	M6	G ¹ / ₈	25	20	80.5	12	16	23	31	24.5	15.5	9	27	6
25	10	M8	G ¹ / ₈	30	26	88	16	23.5	30.5	31	24.5	15.5	9	32	8

1.1.2 Attachment 52 Rear thread attachment



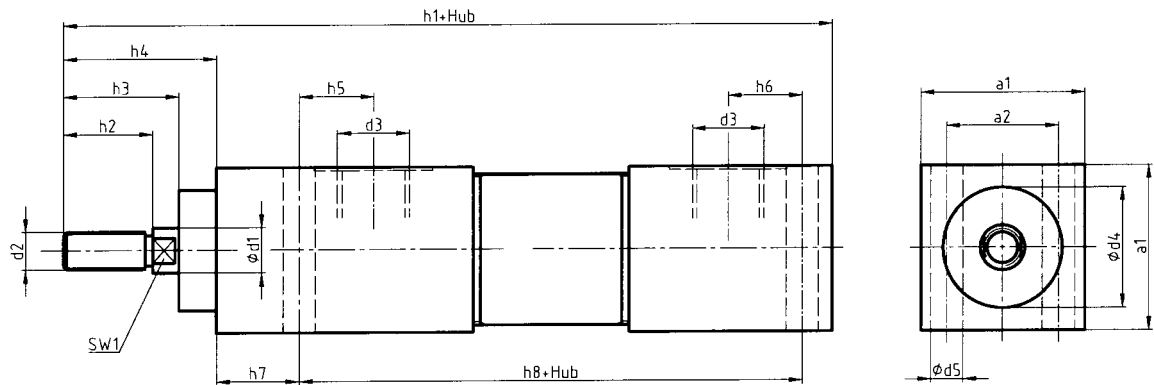
Piston Ø	Ø d ₁	d ₂	d ₃	Ø d ₄	d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	a ₁	sw ₁
8	3	M3	M5	9.5	M8x1	54	6	7	10	9	5	10	14	-
12	5	M5	M5	13	M12x1.5	63	11	12	15	11	5	12	19	-
16	6	M5	G ¹ / ₈	16	M12x1.5	83	12	15.5	20.5	13.5	9	12	22	5
20	8	M6	G ¹ / ₈	20	M16x1.5	95.5	12	16	23	15.5	9	15	27	6
25	10	M8	G ¹ / ₈	26	M20x1.5	106	16	23.5	30.5	15.5	9	18	32	8

1.1.3 Attachment 53 Front thread attachment



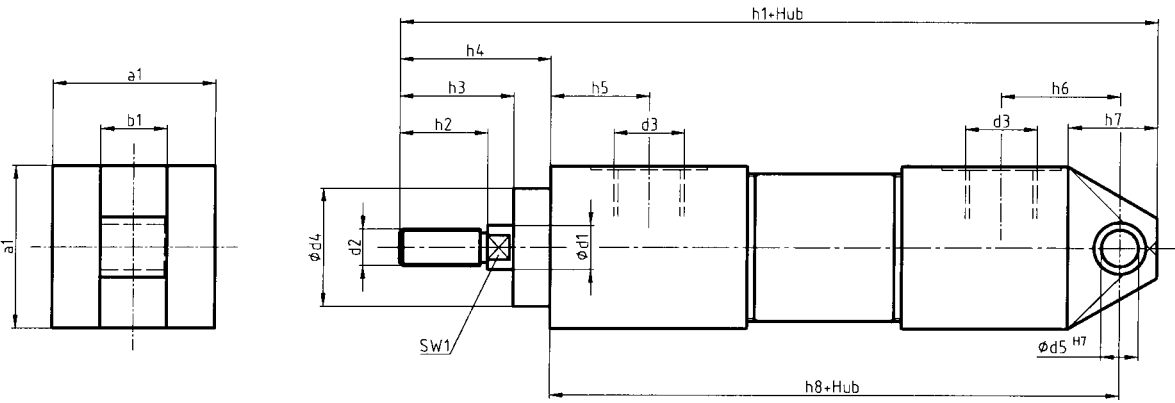
Piston Ø	Ø d ₁	d ₂	d ₃	d ₄	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	a ₁	sw ₁
8	3	M3	M5	M8x1	51	6	7	9	5	10	14	-
12	5	M5	M5	M12x1.5	60	11	12	11	5	12	19	-
16	6	M5	G ¹ / ₈	M12x1.5	78	12	15.5	13.5	9	12	22	5
20	8	M6	G ¹ / ₈	M16x1.5	88.5	12	16	15.5	9	15	27	6
25	10	M8	G ¹ / ₈	M20x1.5	99	16	23.5	15.5	9	18	32	8

1.1.4 Attachment 54 foot attachment



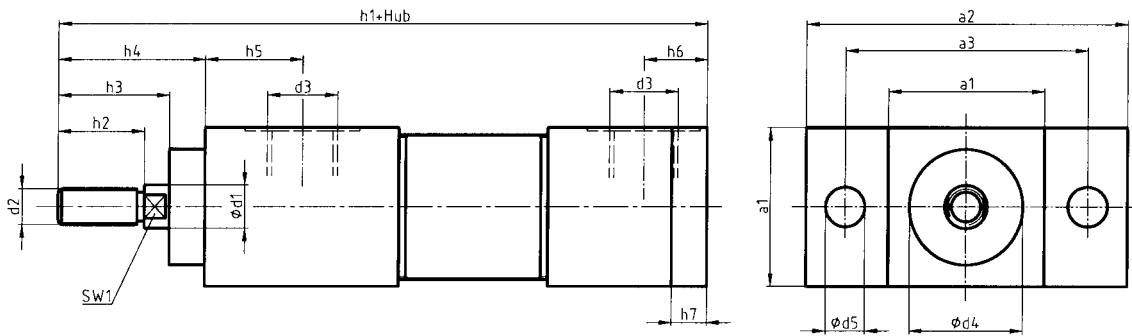
Piston Ø	Ø d ₁	d ₂	d ₃	Ø d ₄	Ø d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	a ₁	a ₂	sw ₁
8	3	M3	M5	9.5	3.3	53.5	6	7	10	6	6	8.5	32	14	8.5	-
12	5	M5	M5	13	4.3	62	11	12	15	6	6	11	32	19	12	-
16	6	M5	G ¹ / ₈	16	4.3	83.5	12	15.5	20.5	10	10	11	48	22	15	5
20	8	M6	G ¹ / ₈	20	5.3	95	12	16	23	10	10	14	53	27	18	6
25	10	M8	G ¹ / ₈	26	5.3	102.5	16	23.5	30.5	10	10	14	53	32	22	8

1.1.5 Attachment 55 Swivel version



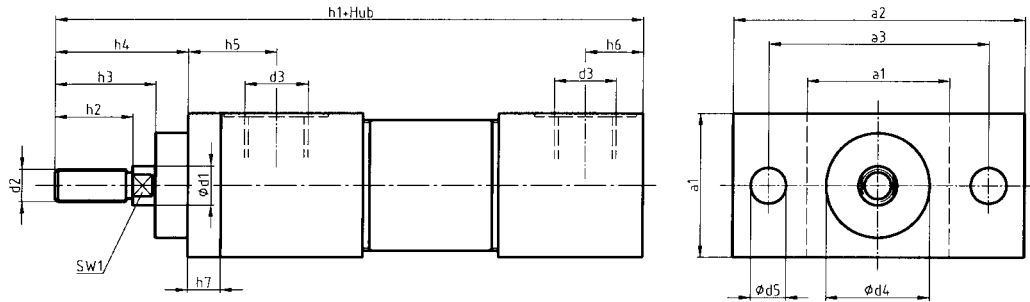
Piston Ø	Ø d ₁	d ₂	d ₃	Ø d ₄	Ø d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	a ₁	b ₁	sw ₁
8	3	M3	M5	9.5	3	54	6	7	10	9	11	10	40	14	6 _{.0.1}	-
12	5	M5	M5	13	5	63	11	12	15	11	12	12	43	19	9 _{.0.1}	-
16	6	M5	G ¹ / ₈	16	5	83	12	15.5	20.5	13.5	16	12	57.5	22	9 _{.0.1}	5
20	8	M6	G ¹ / ₈	20	6	95.5	12	16	23	15.5	18	15	66.5	27	12 _{.0.1}	6
25	10	M8	G ¹ / ₈	26	8	106	16	23.5	30.5	15.5	19	18	67.5	32	16 _{.0.15}	8

1.1.6 Attachment 56 Rear flange



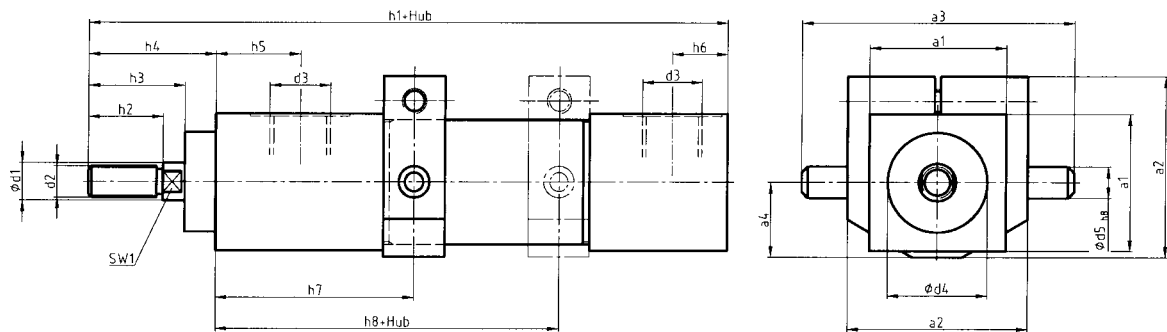
Piston Ø	Ø d ₁	d ₂	d ₃	Ø d ₄	Ø d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	a ₁	a ₂	a ₃	sw ₁
8	3	M3	M5	9.5	3.5	44	6	7	10	9	5	3	14	28	22	-
12	5	M5	M5	13	4.5	51	11	12	15	11	5	4	19	36	28	-
16	6	M5	G ¹ / ₈	16	5.5	71	12	15.5	20.5	13.5	9	5	22	45	34	5
20	8	M6	G ¹ / ₈	20	6.5	80.5	12	16	23	15.5	9	8	27	55	42	6
25	10	M8	G ¹ / ₈	26	6.5	88	16	23.5	30.5	15.5	9	8	32	60	47	8

1.1.7 Attachment 57 Front flange



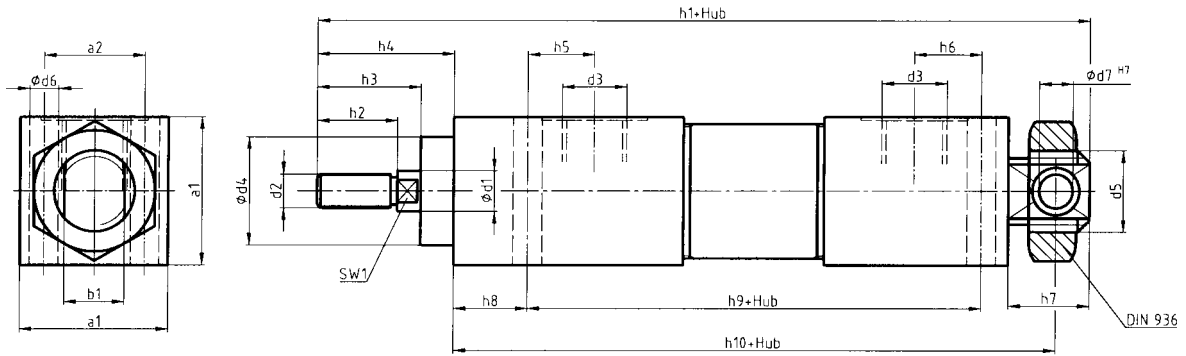
Piston ∅	∅ d ₁	d ₂	d ₃	∅ d ₄	∅ d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	a ₁	a ₂	a ₃	sw ₁
8	3	M3	M5	9.5	3.5	44	6	7	10	9	5	3	14	28	22	-
12	5	M5	M5	13	4.5	51	11	12	15	11	5	4	19	36	28	-
16	6	M5	G ¹ / ₈	16	5.5	71	12	15.5	20.5	13.5	9	5	22	45	34	5
20	8	M6	G ¹ / ₈	20	6.5	80.5	12	16	23	15.5	9	8	27	55	42	6
25	10	M8	G ¹ / ₈	26	6.5	88	16	23.5	30.5	15.5	9	8	32	60	47	8

1.1.8 Attachment 58 Middle swivel version



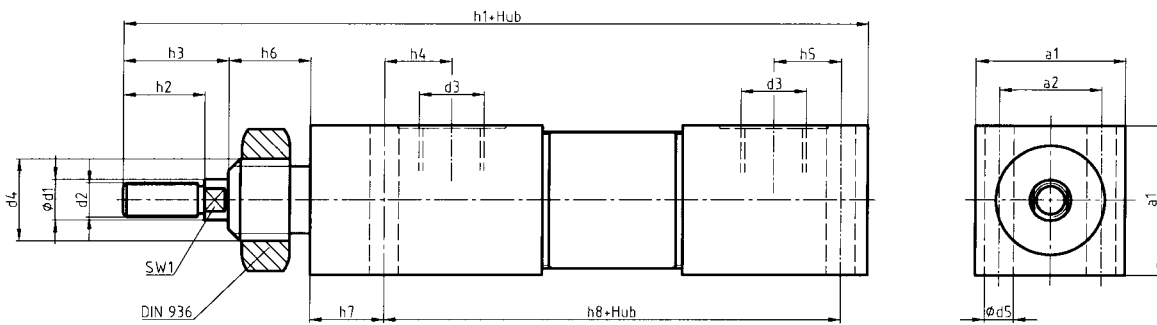
Piston ∅	∅ d ₁	d ₂	d ₃	∅ d ₄	∅ d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	a ₁	a ₂	a ₃	a ₄	sw ₁
8	3	M3	M5	9.5	3	44	6	7	10	9	5	22	16	14	19	30	8	-
12	5	M5	M5	13	5	51	11	12	15	11	5	27	15	19	25	40	10	-
16	6	M5	G ¹ / ₈	16	5	71	12	15.5	20.5	13.5	9	32	23	22	29	44	12	5
20	8	M6	G ¹ / ₈	20	6	80.5	12	16	23	15.5	9	37	27	27	36	55	15	6
25	10	M8	G ¹ / ₈	26	8	88	16	23.5	30.5	15.5	9	39	25	32	42	61	18.5	8

1.1.9 Attachment 59 Foot, thread, rear and swivel version, combined



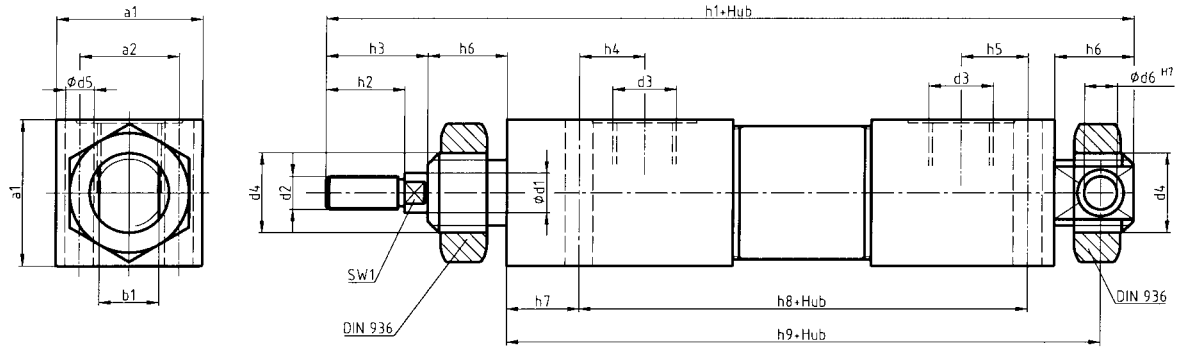
Piston ∅	∅ d ₁	d ₂	d ₃	∅ d ₄	d ₅	∅ d ₆	∅H ₇ d ₇	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	h ₉	h ₁₀	a ₁	a ₂	b ₁	sw ₁
8	3	M3	M5	9.5	M8x1	3.3	3	63.5	6	7	10	6	6	10	8.5	32	49.5	14	8.5	6 _{-0.1}	-
12	5	M5	M5	13	M12x1.5	4.3	5	74	11	12	15	6	6	12	11	32	54	19	12	9 _{-0.1}	-
16	6	M5	G ¹ / ₈	16	M12x1.5	4.3	5	95.5	12	15.5	20.5	10	10	12	11	48	70	22	15	9 _{-0.1}	5
20	8	M6	G ¹ / ₈	20	M16x1.5	5.3	6	110	12	16	23	10	10	15	14	53	81	27	18	12 _{-0.1}	6
25	10	M8	G ¹ / ₈	26	M20x1.5	5.3	8	120.5	16	23.5	30.5	10	10	18	14	53	82	32	22	16 _{-0.15}	8

1.1.10 Attachment 60 Foot, thread, front - combined version



Piston ∅	∅ d ₁	d ₂	d ₃	d ₄	∅ d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	a ₁	a ₂	sw ₁
8	3	M3	M5	M8x1	3.3	60.5	6	7	6	6	10	8.5	32	14	8.5	-
12	5	M5	M5	M12x1.5	4.3	71	11	12	6	6	12	11	32	19	12	-
16	6	M5	G ¹ / ₈	M12x1.5	4.3	90.5	12	15.5	10	10	12	11	48	22	15	5
20	8	M6	G ¹ / ₈	M16x1.5	5.3	103	12	16	10	10	15	14	53	27	18	6
25	10	M8	G ¹ / ₈	M20x1.5	5.3	113.5	16	23.5	10	10	18	14	53	32	22	8

1.1.11 Attachment 61 Foot, thread, front and rear and swivel version



Piston ϕ	ϕ d_1	d_2	d_3	d_4	ϕ d_5	ϕH_7 d_6	h_1	h_2	h_3	h_4	h_5	h_6	h_7	h_8	h_9	a_1	a_2	b_1	sw_1
8	3	M3	M5	M8x1	3.3	3	70.5	6	7	6	6	10	8.5	32	49.5	14	8.5	6 _{-0.1}	-
12	5	M5	M5	M12x1.5	4.3	5	83	11	12	6	6	12	11	32	54	19	12	9 _{-0.1}	-
16	6	M5	G ^{1/8}	M12x1.5	4.3	5	102.5	12	15.5	10	10	12	11	48	70	22	15	9 _{-0.1}	5
20	8	M6	G ^{1/8}	M16x1.5	5.3	6	118	12	16	10	10	15	14	53	81	27	18	12 _{-0.1}	6
25	10	M8	G ^{1/8}	M20x1.5	5.3	8	131.5	16	23.5	10	10	18	14	53	82	32	22	16 _{-0.15}	8

1.2 Series 20 Ø 8-25 single-acting

Technical features

Function Single-acting with spring return
 Design Compact cylinder
 We keep sets of seals for you in stock.
 Seals: Perbunan
 Materials Piston rod: stainless steel;
 housing: aluminium
 Damper Vulkullan rings
 Stroke lengths see Table

PistonsØ 8, 12, 16, 20, 25 mm
 Connections 8= M5, 12= M5, 16= G1/8,
 20= G1/8, 25= G1/8
 Any fitting position
 Temperature -20°C to +80°C
 Medium Filtered, oil-bearing or oil-free
 compressed air
 Operating pressure 1 to 10 bar

Customized solutions on request

Ordering example	
Pneumatic cylinder	1 - 40 050 51 0250 - 0
Series	_____
Piston dia.	_____
Attachment type	_____
Stroke in mm	_____
Special version	_____

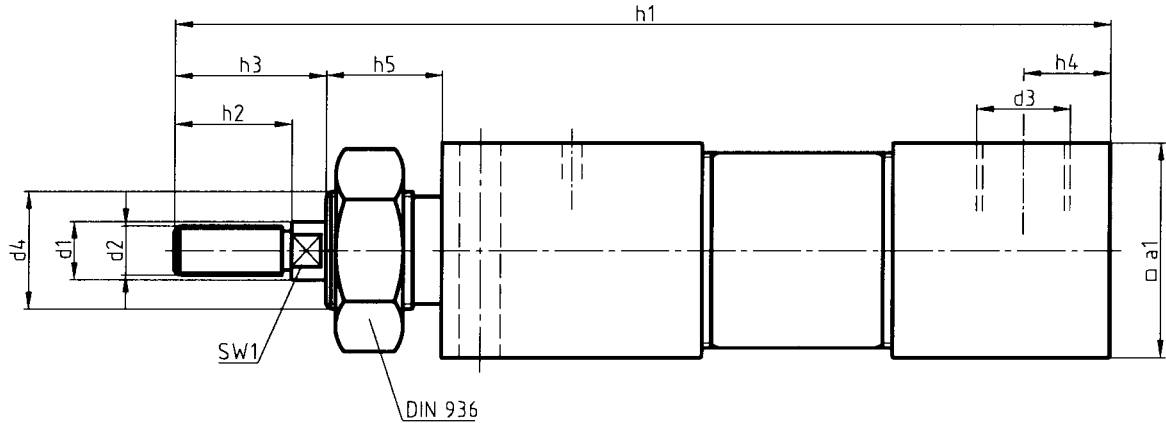
You can choose a **customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series** for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

Special versions

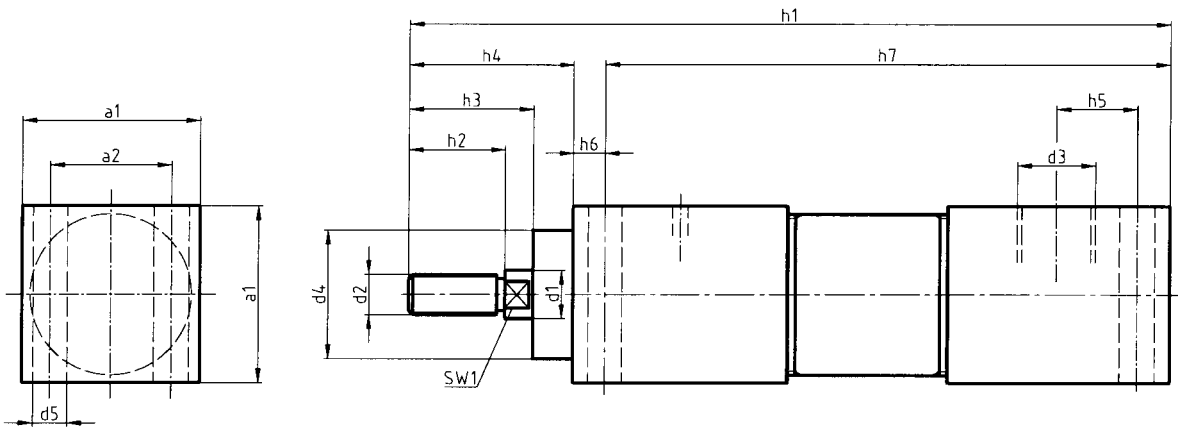
- 0 = Without
 - 1 = Magnetic piston + one proximity switch mounted
 - 2 = Magnetic pistons + two proximity switches mounted
 - M = Magnetic piston
 - D = Heat-resistant seals up to 180°C
 - K = Customized solution
- Simply request any other combination.

1.2.1 Attachment 53 Front thread attachment



Piston	1	2	3	4	d1	d2	d3	d4	1	2	3	4	h2	h3	h4	h5	a1	sw 1	Stroke 0	Stroke end	Stroke 0	Stroke end	
∅	Stroke from bearing				∅				h1 at stroke											Piston force ¹		Spring force N	
8	12	25	40	63	3	M3	M5	M8x1	63	86	112	151	6	7	5	10	14	-	24.5	21.2	5.5	8.8	
12	12	25	40	63	5	M5	M5	M12x1.5	72	91	114.5	150.5	11	12	5	12	19	-	59.4	55.8	8.4	12.0	
16	12	25	50	80	6	M5	G1/8	M12x1.5	90	110.5	154.5	209.5	12	15.5	9	12	22	5	105.6	99.6	15.0	21.0	
20	12	25	50	80	8	M6	G1/8	M16x1.5	100.5	122	170.5	217.5	12	16	9	15	27	6	169.9	163.4	18.5	25.0	
25	12	25	50	80	10	M8	G1/8	M20x1.5	111	132.5	175	230	16	23.5	9	18	32	8	274.6	269.6	20.0	25.0	

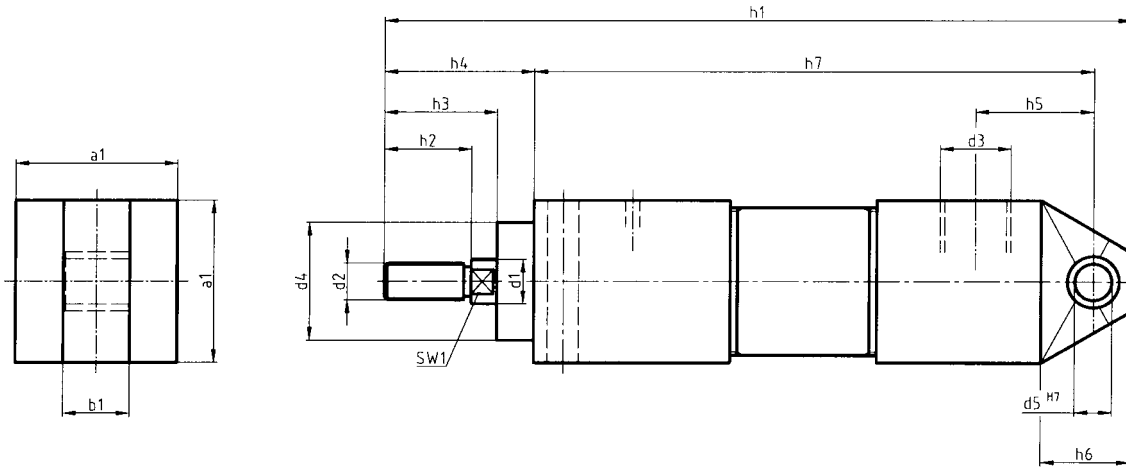
1.2.2 Attachment 54 Foot attachment



Piston	1	2	3	4	d1	d2	d3	d4	d5	1	2	3	4	h2	h3	h4	h5	h6	a1	a2	sw1	Stroke 0	Stroke end	Stroke 0	Stroke end	1	2	3	4		
∅	Stroke from bearing				∅					h1 at stroke																					
8	12	25	40	63	3	M3	M5	9.5	3.3	60	83	109	148	6	7	10	6	3	14	8.5	-	24.5	21.2	5.5	8.8	44	67	93	132		
12	12	25	40	63	5	M5	M5	13	4.3	68	87	110.5	146.5	11	12	15	6	4	19	19	-	59.4	55.8	8.4	12.0	45	64	87.5	123.5		
16	12	25	50	80	6	M5	G1/8	16	4.3	88	108.5	152.5	207.5	12	15.5	20.5	10	4	22	22	5	105.6	99.6	15.0	21.0	59.5	80	124	179		
20	12	25	50	80	8	M6	G1/8	20	5.3	98.5	120	168.5	215.5	12	16	23	10	5	27	27	6	169.9	163.4	18.5	25.0	65.5	87	135.5	182.5		
25	12	25	50	80	10	M8	G1/8	26	5.3	106	127.5	170	225	16	23.5	30.5	10	5	32	32	8	274.6	269.6	20.0	25.0	65.5	87	129.5	184.5		

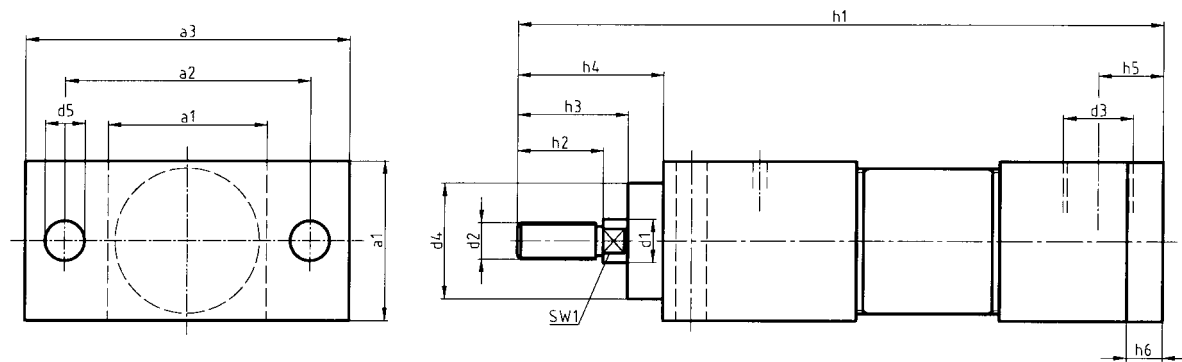
¹ theor. forces at 6 bar in N

1.2.3 Attachment 55 Swivel version



Piston Ø	Stroke from bearing				d1 Ø	d2 Ø	d3 Ø	d4 Ø	d5 Ø	h1 at stroke				h2	h3	h4	h5	h6	a1	b1	sw1	Stroke 0 Piston force ²	Stroke end Piston force ²	Stroke 0 Spring force N		h7 at stroke			
	1	2	3	4						1	2	3	4											1	2	3	4		
8	12	25	40	63	3	M3	M5	9.5	3.3	66	89	115	154	6	7	10	11	10	14	6 _{0.1}	-	24.5	21.2	5.5	8.8	52	75	101	140
12	12	25	40	63	5	M5	M5	13	4.3	75	94	117.5	153.5	11	12	15	12	12	19	9 _{0.1}	-	59.4	55.8	8.4	12.0	55	74	97.5	133.5
16	12	25	50	80	6	M5	G1/8	16	4.3	95	115.5	159.5	214.5	12	15.5	20.5	16	12	22	9 _{0.1}	5	105.6	99.6	15.0	21.0	69.5	90	134	189
20	12	25	50	80	8	M6	G1/8	20	5.3	107.5	129	177.5	224.5	12	16	23	18	15	27	12 _{0.1}	6	169.9	163.4	18.5	25.0	78.5	100	148.8	195.5
25	12	25	50	80	10	M8	G1/8	26	5.3	118	139.5	182	237	16	23.5	30.5	19	18	32	12 _{0.1}	8	274.6	269.6	20.0	25.0	79.5	100.5	143.5	198.5

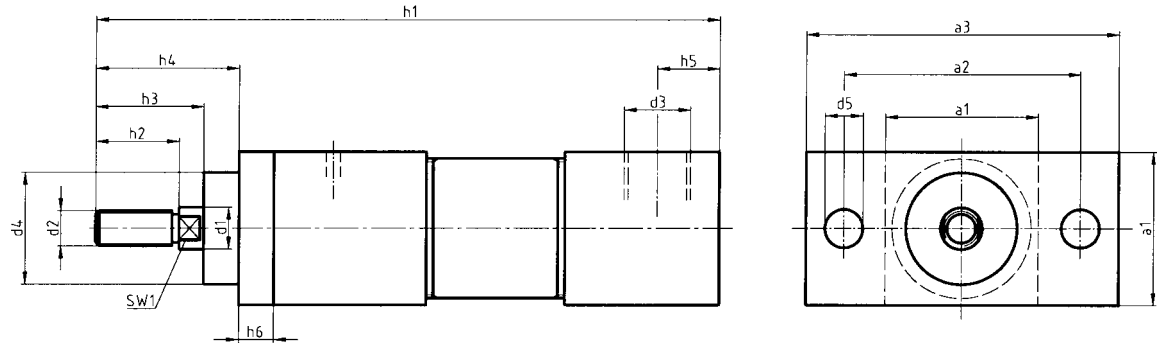
1.2.4 Attachment 56 Rear flange



Piston Ø	Stroke from bearing				d1 Ø	d2 Ø	d3 Ø	d4 Ø	d5 Ø	h1 at stroke				h2	h3	h4	h5	h6	a1	a2	a3	sw1	Stroke 0 Piston force ²	Stroke end Piston force ²	Stroke 0 Spring force N	
	1	2	3	4						1	2	3	4												1	2
8	12	25	40	63	3	M3	M5	9.5	3.5	56	79	105	144	6	7	10	5	3	14	22	28	-	24.5	21.2	5.5	8.8
12	12	25	40	63	5	M5	M5	13	4.5	63	82	105.5	141.5	11	12	15	5	4	19	28	36	-	59.4	55.8	8.4	12.0
16	12	25	50	80	6	M5	G1/8	16	5.5	83	103.5	147.5	202.5	12	15.5	20.5	9	5	22	34	45	5	105.6	99.6	15.0	21.0
20	12	25	50	80	8	M6	G1/8	20	6.5	92.5	114	162.5	209.5	12	16	23	9	8	27	42	55	6	169.9	163.4	18.5	25.0
25	12	25	50	80	10	M8	G1/8	26	6.5	100	121.5	164	219	16	23.5	30.5	9	8	32	47	60	8	274.6	269.6	20.0	25.0

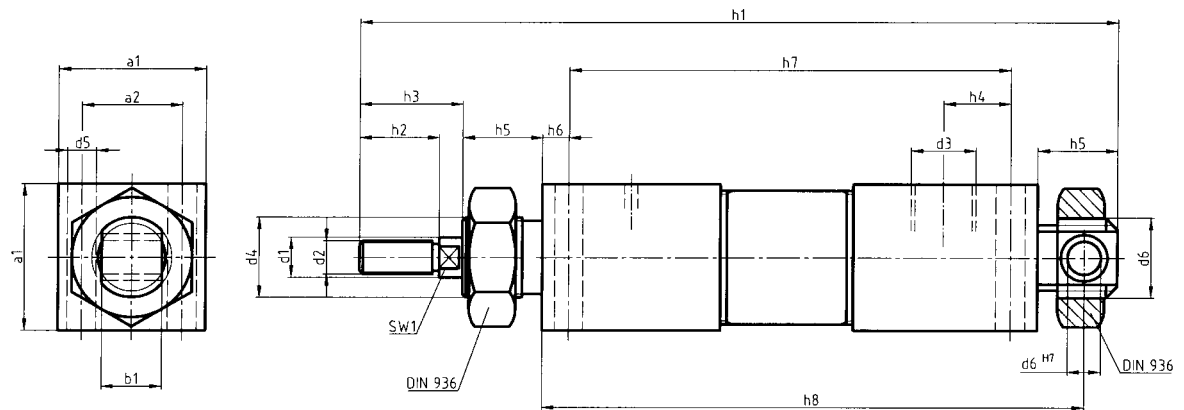
² theor. forces at 6 bar in N

1.2.5 Attachment 57 Front flange



Piston Ø	Stroke from bearing				d ₁ Ø	d ₂	d ₃	d ₄ Ø	d ₅ Ø	h ₁ at stroke				h ₂	h ₃	h ₄	h ₅	h ₆	a ₁	a ₂	a ₃	sw ₁	Stroke 0	Stroke end	Stroke 0	Stroke end
	1	2	3	4						1	2	3	4													
8	12	25	40	63	3	M3	M5	9.5	3.5	56	79	105	144	6	7	10	5	3	14	22	28	-	24.5	21.2	5.5	8.8
12	12	25	40	63	5	M5	M5	13	4.5	63	82	105.5	141.5	11	12	15	5	4	19	28	36	-	59.4	55.8	8.4	12.0
16	12	25	50	80	6	M5	G1/8	16	5.5	83	103.5	147.5	202.5	12	15.5	20.5	9	5	22	34	45	5	105.6	99.6	15.0	21.0
20	12	25	50	80	8	M6	G1/8	20	6.5	92.5	114	162.5	209.5	12	16	23	9	8	27	42	55	6	169.9	163.4	18.5	25.0
25	12	25	50	80	10	M8	G1/8	26	6.5	100	121.5	164	219	16	23.5	30.5	9	8	32	47	60	8	274.6	269.6	20.0	25.0

1.2.6 Attachment 61 Foot, thread, front and rear and swivel version



Piston Ø	Stroke from bearing				d ₁ Ø	d ₂	d ₃	d ₄	d ₅ Ø	d ₆ Ø H ₇	h ₁ at stroke				h ₂	h ₃	h ₄	h ₅	h ₆	a ₁	a ₂	b ₁	sw ₁	h ₇ at stroke				h ₈ at stroke			
	1	2	3	4							1	2	3	4										h ₇ at stroke	h ₈ at stroke	h ₉ at stroke	h ₁₀ at stroke	1	2	3	4
8	12	25	40	63	3	M3	M5	M8x1	3.3	3	77	100	126	165	6	7	6	10	3	14	8.5	6 _{0.1}	-	44	67	93	132	56	79	105	144
12	12	25	40	63	5	M5	M5	M12x1.5	4.3	5	89	108	131.5	167.5	11	12	6	12	4	19	19	9 _{0.1}	-	45	64	87.5	123.5	60	79	102.5	138.5
16	12	25	50	80	6	M5	G1/8	M12x1.5	4.3	5	107	127.5	171.5	226.5	12	15.5	10	12	4	22	22	9 _{0.1}	5	59.5	80	124	179	74.5	95	139	194
20	12	25	50	80	8	M6	G1/8	M16x1.5	5.3	6	121.5	143	191.5	238.5	12	16	10	15	5	27	27	12 _{0.1}	6	65.5	87	135.5	182	84.5	106	154.5	201.5
25	12	25	50	80	10	M8	G1/8	M20x1.5	5.3	8	135	156.5	199	254	16	23.5	10	18	5	32	32	12 _{0.1}	8	65.5	87	129.5	184.5	85.5	107	149.5	204.5

2 Round cylinders

2.1 Series 50 Ø 32-100 mm double-acting

Technical features

Function	Double-acting	Stroke lengths	Freely selectable stroke lengths, max. 1000 mm
Design	Compact round cylinder, front and end pieces bolted to cylinder, therefore these cylinders are repairable.	PistonsØ	32, 40, 50, 63, 80, 100 mm
		Connections	32= G1/8", 40 / 50= G1/4", 63= G3/8", 80= G3/8", 100= G1/2"
We keep sets of seals for you in stock.		Any fitting position	
Seals	Perbunan; Viton: additional price	Temperature	-20°C to +80°C
Materials	Piston rod: stainless steel; cylinder: hard-coated aluminium; front and end pieces: aluminium	Medium	Filtered, oil-bearing or oil-free compressed air
Damper	Vulkollan rings in end positions	Operating pressure	1 to 10 bar

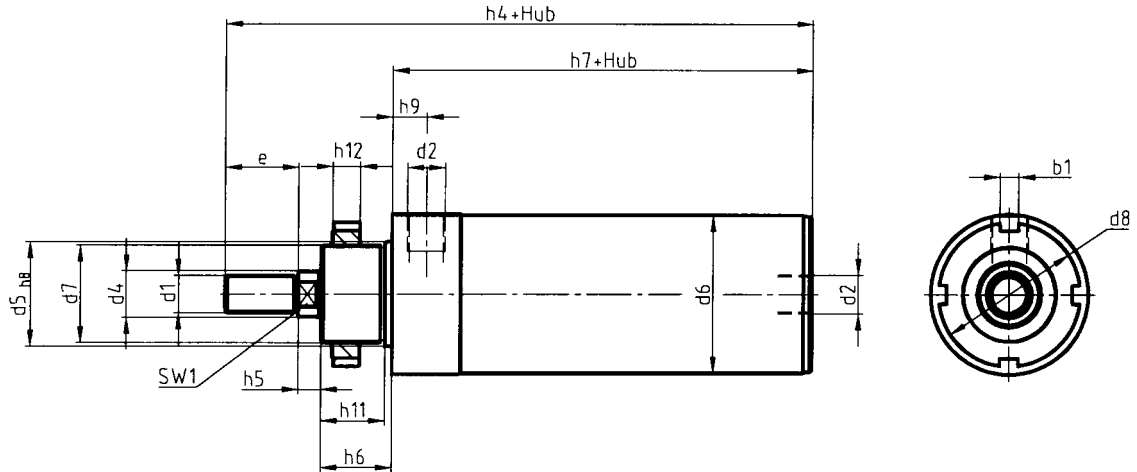
Customized solutions on request

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

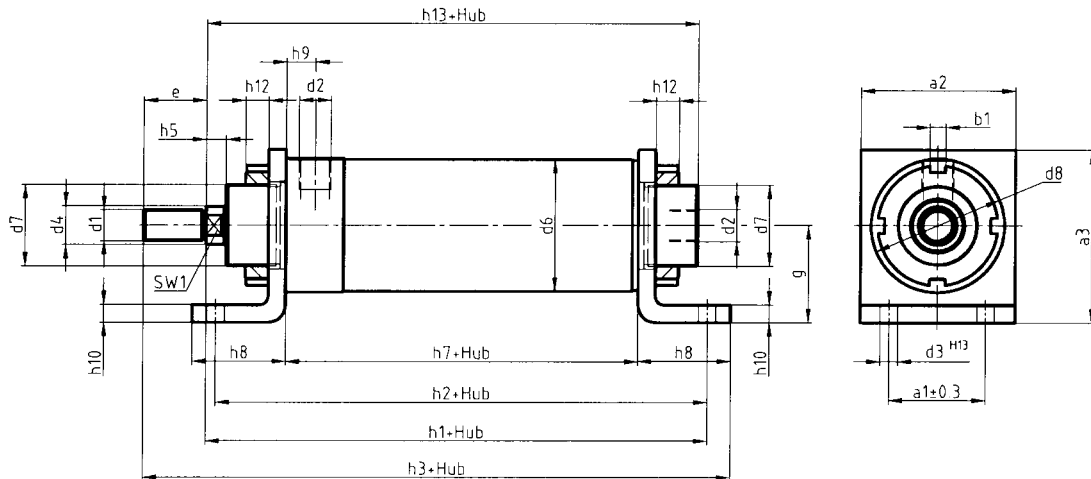
- 0 = Without
 - 1 = Magnetic piston + one proximity switch mounted
 - 2 = Magnetic pistons + two proximity switches mounted
 - M = Magnetic piston
 - D = Heat-resistant seals up to 180°C
 - K = Customized solution
- Simply request any other combination.

2.1.1 Attachment 53 With front thread / basic version



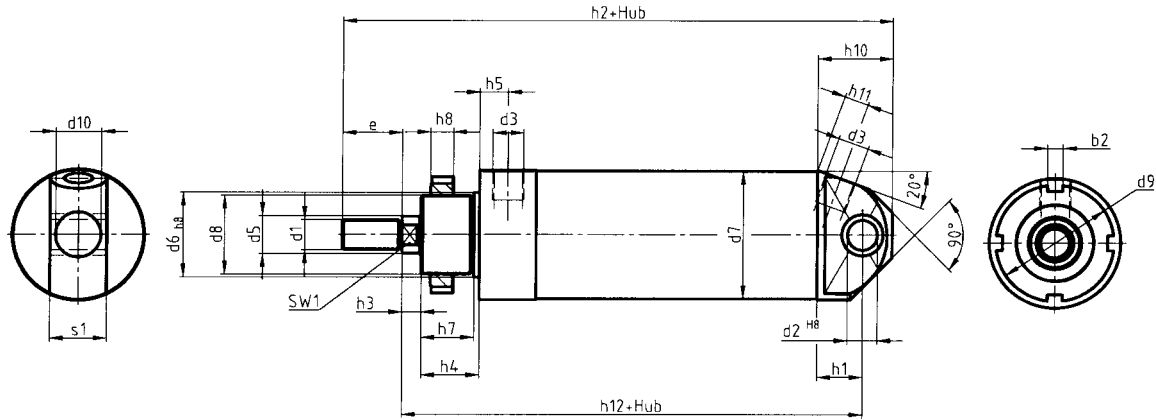
Piston ∅	b ₁	d ₁	d ₂	d ₄ ∅	d ₅ ∅ h8	d ₆ ∅	d ₇ ∅	d ₈ ∅	h ₄	h ₅	h ₆	h ₇	h ₉	h ₁₁	h ₁₂	e	sw ₁
32	6	M10	G1/8	12	32	38	M30x1.5	42	110	8	20	62	10	18	8	20	10
40	7	M12	G1/4	16	40	45	M38x1.5	50	120	9	23	64	11	20	10	24	13
50	8	M16x1.5	G1/4	20	45	55	M42x1.5	62	141	10	31	68	11	28	12	32	17
63	8	M16x1.5	G3/8	20	45	68	M42x1.5	62	154	10	31	81	15	28	12	32	17
80	10	M20x1.5	G3/8	25	60	86	M58x1.5	90	181	10	40	91	15	36	13	40	21
100	10	M20x1.5	G1/2	25	60	107	M58x1.5	90	190	10	45	95	17	40	13	40	21

2.1.2 Attachment 54 Front and rear foot attachment



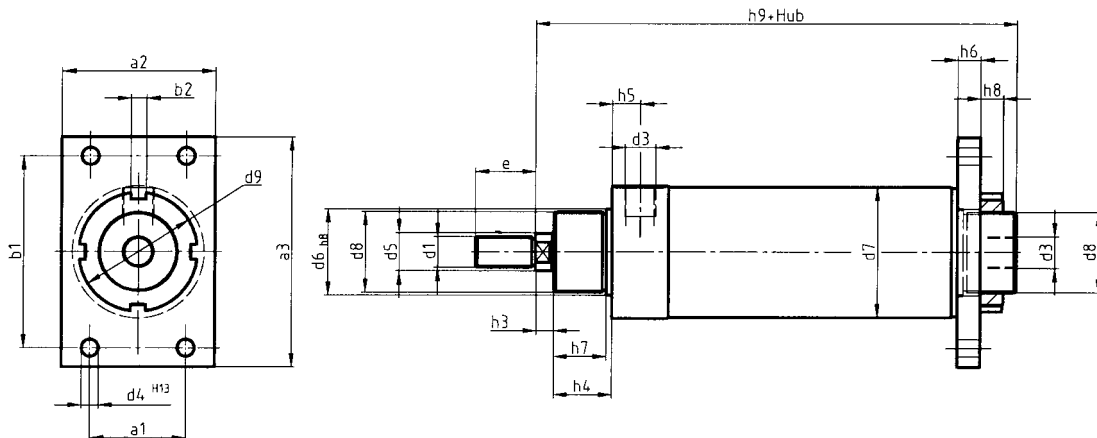
Piston ∅	a ₁	a ₂	a ₃	b ₁	d ₁	d ₂	d ₃ ∅ H13	d ₄ ∅	d ₆ ∅	d ₇ ∅	d ₈ ∅	h ₁	h ₂	h ₃	h ₅	h ₇	h ₈	h ₉	h ₁₀	h ₁₂	h ₁₃	e	g	sw ₁
32	32	50	56	6	M10	G1/8	7	12	38	M30x1.5	42	116	114	145	8	62	35	10	7	8	130	20	32	10
40	36	55	63	7	M12	G1/4	9	16	45	M38x1.5	50	126	124	162	9	64	42	11	7	10	143	24	36	13
50	45	70	79	8	M16x1.5	G1/4	9	20	55	M42x1.5	62	145	140	189	10	68	48	11	9	12	165	32	45	17
63	50	80	89	8	M16x1.5	G3/8	9	20	68	M42x1.5	62	158	153	202	10	81	48	15	9	12	178	32	50	17
80	63	100	112	10	M20x1.5	G3/8	12	25	86	M58x1.5	90	186	181	239	10	91	58	15	11	13	211	40	63	21
100	75	120	129	10	M20x1.5	G1/2	14	25	107	M58x1.5	90	195	185	250	10	95	60	17	11	13	220	40	71	21

2.1.3 Attachment 55 Rear pivot attachment



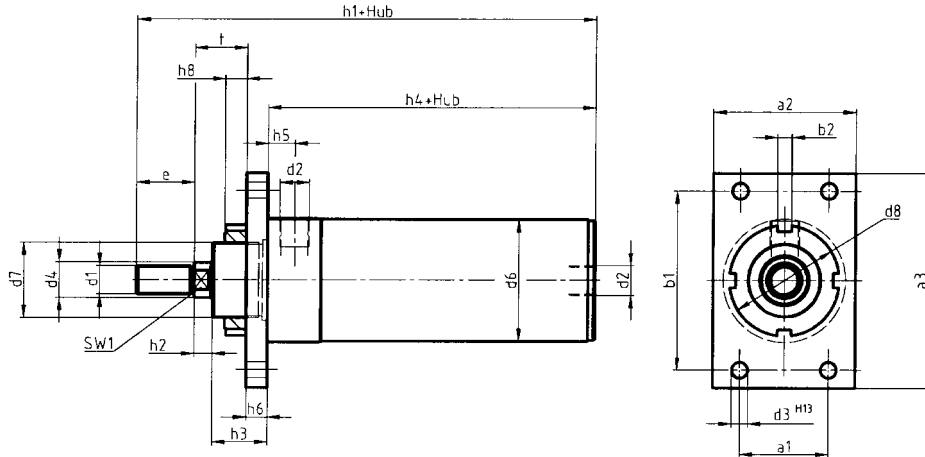
Piston ∅	b ₂	d ₁ ∅	d ₂ ∅H8	d ₃ ∅	d ₅ ∅	d ₆ ∅h8	d ₇ ∅	d ₈ ∅	d ₉ ∅	D ₀ ∅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₇	h ₈	h ₁₀	h ₁₁	h ₁₂	e	S1	sw ₁
32	6	M10	10	G1/8	12	32	38	M30x1.5	42	15	13	133	8	20	10	18	8	26	8	103	20	19 _{-0.5}	10
40	7	M12	12	G1/4	16	40	45	M38x1.5	50	19	17	149	9	23	11	20	10	32	10	113	24	24 _{-0.5}	13
50	8	M16x1.5	12	G1/4	20	45	55	M42x1.5	62	23	17	170	10	31	11	28	12	32	11	126	32	28 _{-0.5}	17
63	8	M16x1.5	16	G3/8	20	45	68	M42x1.5	62	24	20	190	10	31	15	28	12	40	13	142	32	30 _{-0.6}	17
80	10	M20x1.5	16	G3/8	25	60	86	M58x1.5	90	37	21	220	10	40	15	36	13	43	14	162	40	40 _{-0.6}	21
100	10	M20x1.5	20	G1/2	25	60	107	M58x1.5	90	56	25	235	10	45	17	40	13	49	20	175	40	50 _{-0.7}	21

2.1.4 Attachment 56 Base flange version



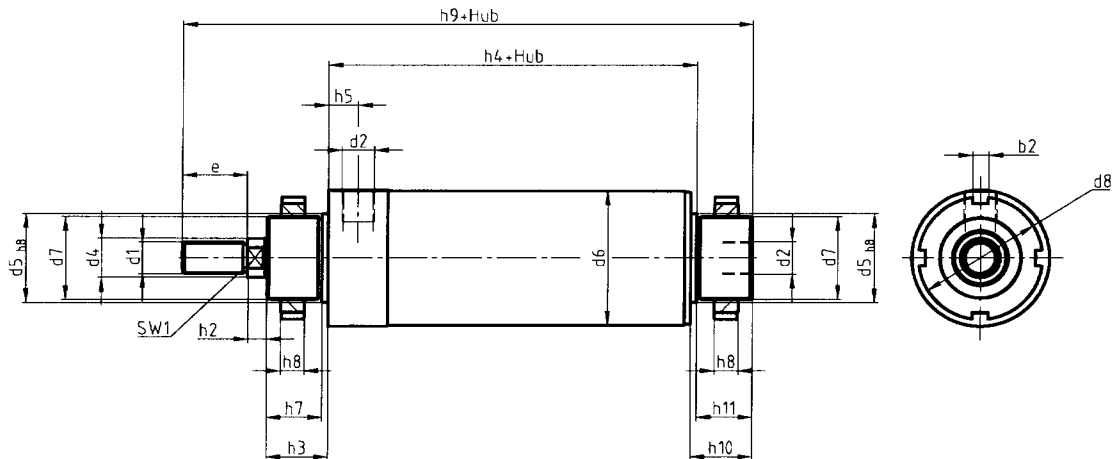
Piston ∅	a ₁	a ₂	a ₃	b ₁	b ₂	d ₁ ∅	d ₃ ∅	d ₄ ∅ H13	d ₅ ∅	d ₆ ∅h8	d ₇ ∅	d ₈ ∅	d ₉ ∅	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	h ₉	e
32	32	50	80	64	6	M10	G1/8	7	12	32	38	M30x1.5	42	8	20	10	12	18	8	130	20
40	36	55	90	72	7	M12	G1/4	9	16	40	45	M38x1.5	50	9	23	11	12	20	10	143	24
50	45	70	110	90	8	M16x1.5	G1/4	9	20	45	55	M42x1.5	62	10	31	11	12	28	12	165	32
63	50	80	120	100	8	M16x1.5	G3/8	9	20	45	68	M42x1.5	62	10	31	15	12	28	12	178	32
80	63	100	150	126	10	M20x1.5	G3/8	12	25	60	86	M58x1.5	90	10	40	15	16	36	13	211	40
100	75	120	180	150	10	M20x1.5	G1/2	14	25	60	107	M58x1.5	90	10	45	17	16	40	13	220	40

2.1.5 Attachment 57 Head flange attachment



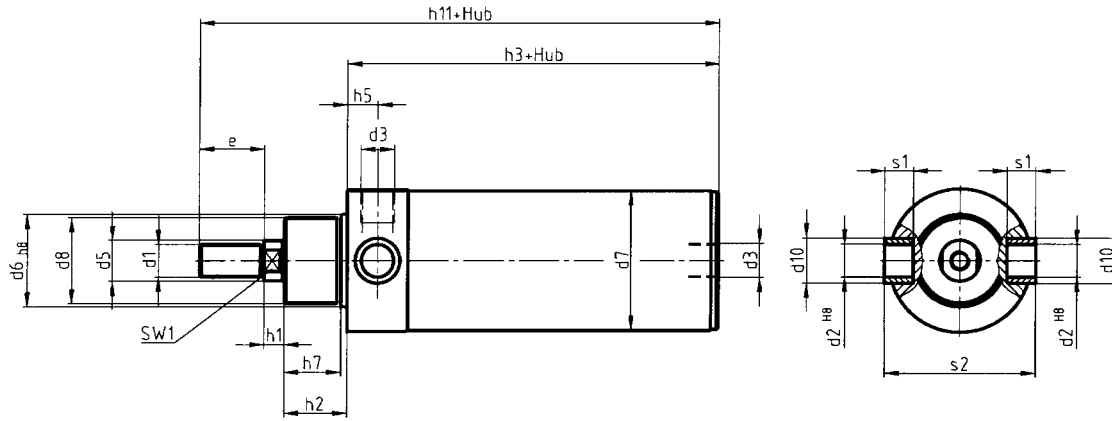
Piston ∅	a ₁	a ₂	a ₃	b ₁	b ₂	d ₁	d ₂	d ₃ ∅ h13	d ₄ ∅	d ₅ ∅ h8	d ₆ ∅	d ₇	d ₈ ∅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	e	t	sw ₁
32	32	50	80	64	6	M10	G1/8	7	12	32	38	M30x1.5	42	110	8	20	62	10	12	18	8	20	16	10
40	36	55	90	72	7	M12	G1/4	9	16	40	45	M38x1.5	50	120	9	23	64	11	12	20	10	24	20	13
50	45	70	110	90	8	M16x1.5	G1/4	9	20	45	55	M42x1.5	62	141	10	31	68	11	12	28	12	32	29	17
63	50	80	120	100	8	M16x1.5	G3/8	9	20	45	68	M42x1.5	62	154	10	31	81	15	12	28	12	32	29	17
80	63	100	150	126	10	M20x1.5	G3/8	12	25	60	86	M58x1.5	90	181	10	40	91	15	16	36	13	40	34	21
100	75	120	180	150	10	M20x1.5	G1/2	14	25	60	107	M58x1.5	90	190	10	45	95	17	16	40	13	40	39	21

2.1.6 Attachment 63 Front and rear thread attachment



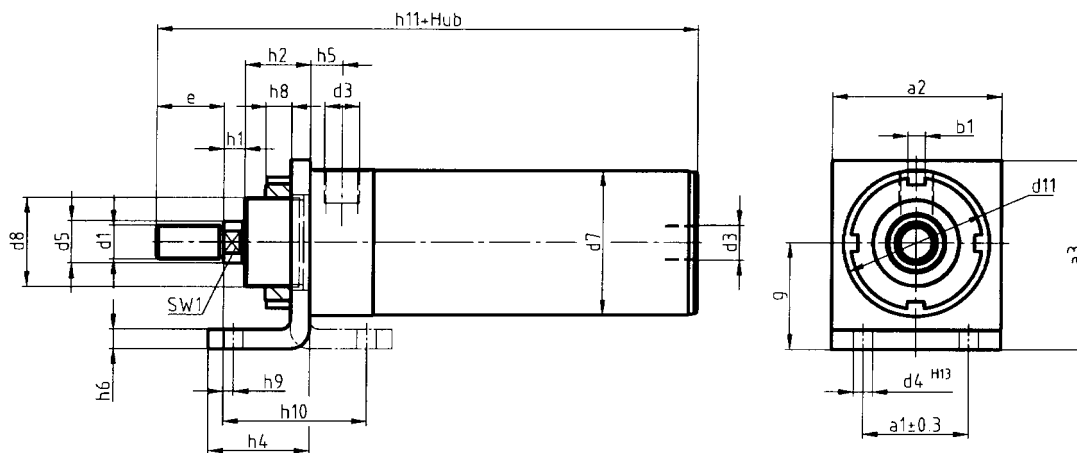
Piston ∅	b ₂	d ₁	d ₂	d ₄ ∅	d ₅ ∅ h8	d ₆ ∅	d ₇	d ₈ ∅	h ₂	h ₃	h ₄	h ₅	h ₇	h ₈	h ₉	h ₁₀	h ₁₁	e	sw ₁
32	6	M10	G1/8	12	32	38	M30x1.5	42	8	20	62	10	18	8	130	20	18	20	10
40	7	M12	G1/4	16	40	45	M38x1.5	50	9	23	64	11	20	10	143	23	20	24	13
50	8	M16x1.5	G1/4	20	45	55	M42x1.5	62	10	31	68	11	28	12	165	24	21	32	17
63	8	M16x1.5	G3/8	20	45	68	M42x1.5	62	10	31	81	15	28	12	178	24	21	32	17
80	10	M20x1.5	G3/8	25	60	86	M58x1.5	90	10	40	91	15	36	13	211	30	26	40	21
100	10	M20x1.5	G1/2	25	60	107	M58x1.5	90	10	45	95	17	40	13	220	30	25	40	21

2.1.7 Attachment 65 Front pivot attachment



Piston ∅	d ₁	d ₂ ∅ H8	d ₃ ∅	d ₄ ∅ H13	d ₅ ∅	d ₆ ∅ H8	d ₇ ∅	d ₈	d ₁₀ ∅	h ₁	h ₂	h ₃	h ₅	h ₇	h ₁₁	e	S1	S2	sw ₁
32	M10	10	G1/8	7	12	32	38	M30x1.5	13	8	20	62	10	18	130	20	8.5	40	10
40	M12	12	G1/4	9	16	40	45	M38x1.5	16	9	23	64	11	20	143	24	11	50	13
50	M16x1.5	12	G1/4	9	20	45	55	M42x1.5	16	10	31	68	11	28	165	32	13	60	17
63	M16x1.5	16	G3/8	9	20	45	68	M42x1.5	22	10	31	81	15	28	178	32	14	74	17
80	M20x1.5	16	G3/8	12	25	60	86	M58x1.5	22	10	40	91	15	36	211	40	19	92	21
100	M20x1.5	20	G1/2	14	25	60	107	M58x1.5	26	10	45	95	17	40	220	40	24	112	21

2.1.8 Attachment 74 Front foot attachment



Piston ∅	a ₁	a ₂	a ₃	b ₁	d ₁	d ₃ ∅	d ₄ ∅ H13	d ₅ ∅	d ₇ ∅	d ₈	d ₁₁ ∅	h ₁	h ₂	h ₄	h ₅	h ₆	h ₈	h ₉	h ₁	h ₁₁	e	g	sw ₁
32	32	50	56	6	M10	G1/8	7	12	38	M30x1.5	42	8	20	35	10	7	8	2	47	130	20	32	10
40	36	55	63	7	M12	G1/4	9	16	45	M38x1.5	50	9	23	42	11	7	10	2	55	143	24	36	13
50	45	70	79	8	M16x1.5	G1/4	9	20	55	M42x1.5	62	10	31	48	11	9	12	5	68	165	32	45	17
63	50	80	89	8	M16x1.5	G3/8	9	20	68	M42x1.5	62	10	31	48	15	9	12	5	68	178	32	50	17
80	63	100	112	10	M20x1.5	G3/8	12	25	86	M58x1.5	90	10	40	58	15	11	13	5	84	211	40	63	21
100	75	120	129	10	M20x1.5	G1/2	14	25	107	M58x1.5	90	10	45	60	17	11	13	10	89	220	40	71	21

2.2 Series 51 Ø32-63 mm double-acting

Technical features

Function	Double-acting	Stroke length	Freely selectable stroke lengths, max. 1000 mm
Design	Compact round cylinder, front and end pieces bolted to cylinder, therefore these cylinders are repairable.	PistonsØ	32, 40, 50, 63 mm
We keep sets of seals for you in stock.		Connections	32= G1/8", 40 / 50= G1/4", 63= G1/4",
Seals	Perbunan; Viton: additional price	Any fitting position	
Materials	Piston rod: stainless steel; cylinder: aluminium, hard anodized; front and end pieces: aluminium	Temperature	-20°C to +80°C
Damper	Vulkollan rings in end positions	Medium	Filtered, oil-bearing or oil-free compressed air
		Operating pressure	1 to 10 bar

Customized solutions on request

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

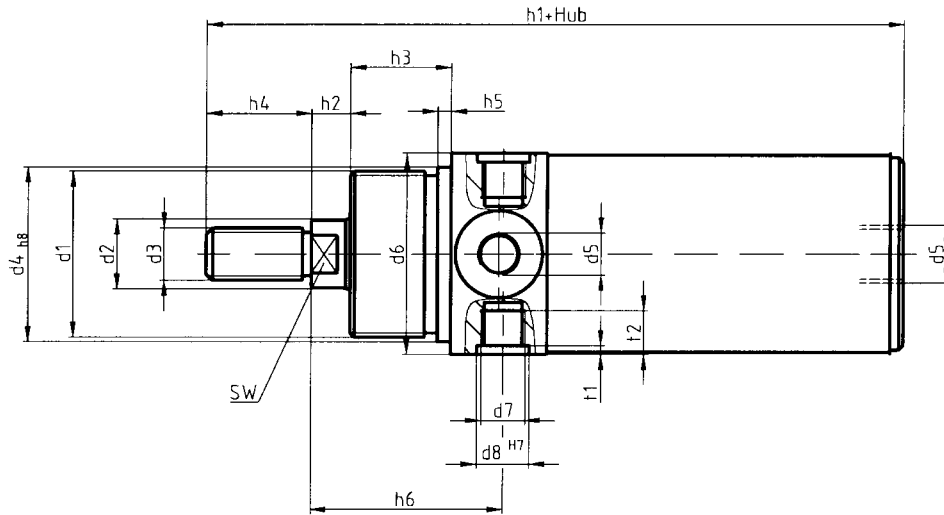
You can choose a **customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series** for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

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.

2.2.1 Attachment 69



Piston \varnothing	d_1	d_2 \varnothing	d_3	d_4 h8 \varnothing	d_5	d_6 \varnothing	d_7	d_8 \varnothing H7	h_1	h_2	h_3	h_4	h_5	h_6	t_1	t_2	sw
32	M30x1.5	12	M10	30	G1/8	38	M8x1	10	119	17	20	20	3	47	1.5	9	10
40	M38x1.5	16	M12	38	G1/4	46	M10x1	12	134	23	23	24	3	57	2	10	13
50	M45x1.5	20	M16x1.5	45	G1/4	57	M12x1.5	14	152	12	38	32	3	62	2	13	17
63	M45x1.5	20	M16x1.5	45	G1/4	69.5	M14x1.5	16	162	13	38	32	3	64	3	20	17

2.3 Series 52 Ø32-63 mm double-acting

Technical features

Function	Double-acting	Stroke length	Freely selectable stroke lengths, max. 1000 mm
Design	Compact round cylinder, front and end pieces bolted to cylinder, therefore these cylinders are repairable.	PistonsØ	32, 40, 50, 63 mm
We keep sets of seals for you in stock.		Connections	32= G1/8", 40 / 50= G1/4", 63= G3/8",
Seals	Perbunan; Viton: additional price	Any fitting position	
Materials	Piston rod: stainless steel; cylinder: aluminium, hard anodized; front and end pieces: aluminium	Temperature	-20°C to +80°C
Damper	Vulkollan rings in end positions	Medium	Filtered, oil-bearing or oil-free compressed air
		Operating pressure	1 to 10 bar

Customized solutions on request

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

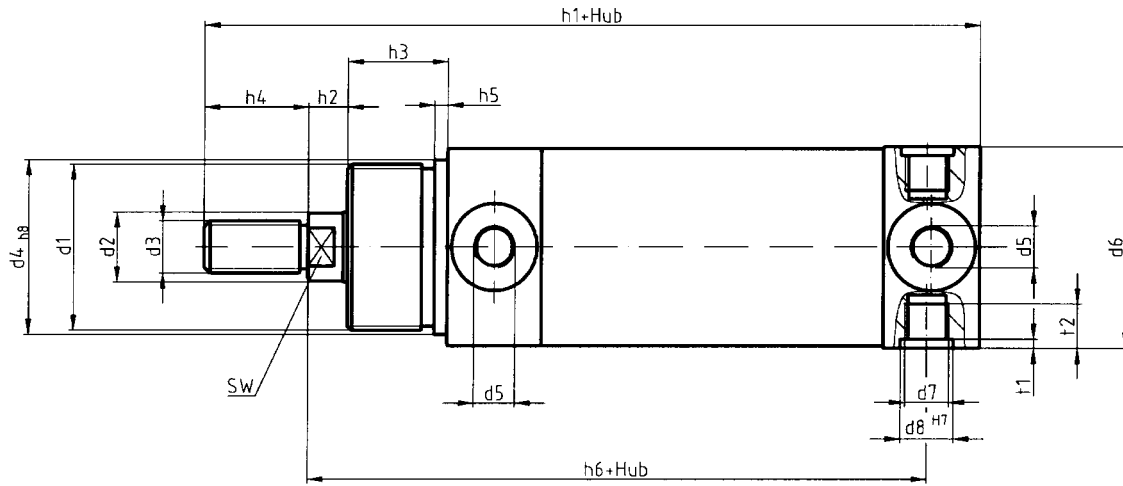
You can choose a **customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series** for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

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
- Simply request any other combination.

2.3.1 Attachment 70



Piston Ø	d_1	d_2 Ø	d_3	d_4 h8 Ø	d_5	d_6 Ø	d_7	d_8 Ø H7	h_1	h_2	h_3	h_4	h_5	h_6	t_1	t_2	sw
32	M30x1.5	12	M10	30	G1/8	38	M8x1	10	127	8	20	20	2	97	1.5	99	10
40	M38x1.5	16	M12	40	G1/4	46	M10x1	12	139	9	23	24	3	104	2	10	13
50	M42x1.5	20	M16x1.5	45	G1/4	57	M12x1.5	14	160	10	31	32	3	117	2	13	17
63	M42x1.5	20	M16x1.5	45	G3/8	69.5	M14x1.5	16	180	10	31	32	3	133	3	20	17

2.4 Series 53 Ø32-100 mm double-acting multi-position cylinder

Technical features

Function	Double-acting, optionally with magnetic piston	Stroke length	Freely selectable stroke lengths, max. 1000 mm
Design	Two-ended stroke direction	PistonsØ	32, 40, 50, 63, 80, 100 mm
We keep sets of seals for you in stock.		Connections	32= G1/8", 40 / 50= G1/4", 63= G3/8", 80= G3/8", 100= G1/2"
Seals	Perbunan; Viton: additional price	Any fitting position	
Materials	Piston rod: stainless steel; cylinder: hard-coated aluminium; front, intermediate and end pieces: aluminium	Temperature	-20°C to +80°C
Damper	Vulkollan rings in end positions	Medium	Filtered, oil-bearing or oil-free compressed air
		Operating pressure	1 to 10 bar

Customized solutions on request

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

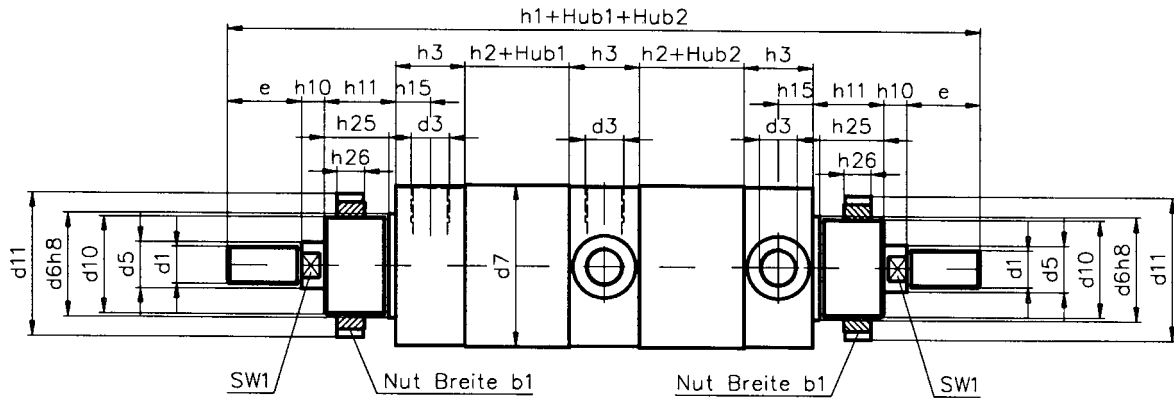
You can choose a **customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series** for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

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
- Simply request any other combination.

2.4.1 Attachment 63



Piston ∅	d ₁	d ₃	d ₅	d ₆ h8	d ₇	d ₁₀	d ₁₁	h ₁	h ₂	h ₃	h ₁₀	h ₁₁	h ₁₅	h ₂₅	h ₂₆	b ₁	sw ₁	e
32	M10	G1/8	12	32	38	M30x1.5	42	234	39	20	8	20	10	18	8	6	10	20
40	M12	G1/4	16	40	45	M38x1.5	50	256	39	22	9	23	11	20	10	7	13	24
50	M16x1.5	G1/4	20	45	55	M42x1.5	62	298	43	22	10	31	11	28	12	8	17	32
63	M16x1.5	G3/8	20	45	68	M42x1.5	62	330	47	30		31	15		12	8		32
80	M20x1.5	G3/8	25	60	86	M58x1.5	90	384	57	30	10	40	15	36	13	10	21	40
100	M20x1.5	G1/2	25	60	106	M58x1.5	90	406	57	34	10	45	17	40	13	10	21	40

2.5 Series 58 Ø32-100 mm double-acting tandem cylinder

Technical features

Function	Double-acting, optionally with magnetic piston	Stroke length	Freely selectable stroke lengths, max. 500 mm
Design	Compact round cylinder, front and end pieces bolted to cylinder, therefore these cylinders are repairable.	PistonsØ	32, 40, 50, 63, 80, 100 mm
We keep sets of seals for you in stock.		Connections	32= G1/8", 40 / 50= G1/4", 63= G3/8", 80= G3/8", 100= G1/2"
Seals	Perbunan; Viton: additional price	Any fitting position	
Materials	Piston rod: stainless steel; cylinder: aluminium, hard anodized; front, intermediate and end pieces: aluminium	Temperature	-20°C to +80°C
		Medium	Filtered, oil-bearing or oil-free compressed air
Damper	Vulkollan rings in end positions	Operating pressure	1 to 10 bar

Customized solutions on request

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

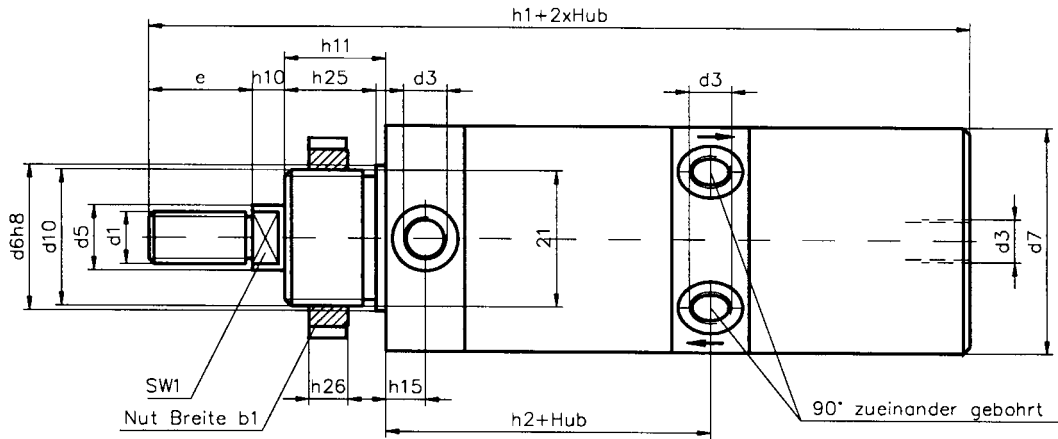
You can choose a **customized solution from any of the rogatti-BEWEGUNGSTECHNIK standard series** for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

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
- Simply request any other combination.

2.5.1 Attachment 53



Piston ∅	d ₁	d ₃	d ₅ ∅	d _{6 h8} ∅	d ₇ ∅	d ₁₀	d ₁₁ ∅	h ₁	h ₂	h ₁₀	h ₁₁	h ₁₅	h ₂₅	h ₂₆	b ₁	sw ₁	e
32	M10	G1/8	12	32	38	M30x1.5	42	169	69	8	20	10	18	8	6	10	20
40	M12	G1/4	16	40	45	M38x1.5	50	181	72	9	23	11	20	10	7	13	24
50	M16x1.5	G1/4	20	45	55	M42x1.5	62	206	76	10	31	11	28	12	8	17	32
63	M16x1.5	G3/8	20	45	68	M42x1.5	62	231	92	10	31	15	28	12	8	17	32
80	M20x1.5	G3/8	25	60	86	M58x1.5	90	268	102	10	40	15	36	13	10	21	40
100	M20x1.5	G1/2	25	60	106	M58x1.5	90	281	108	10		17	40	13	10	21	40

2.6 Series 60 Ø32-100 mm single-acting

Technical features

Function	Single-acting with spring return	Stroke length	Freely selectable stroke lengths, max. 100 mm
Design	Compact round cylinder, front and end pieces bolted to cylinder, therefore these cylinders are repairable.	PistonsØ	32, 40, 50, 63, 80, 100 mm
We keep sets of seals for you in stock.		Connections	32= G1/8", 40 / 50= G1/4", 63= G3/8", 80= G3/8", 100= G1/2"
Seals	Perbunan	Any fitting position	
Materials	Piston rod: stainless steel; cylinder: aluminium, hard anodized; front and end pieces: aluminium	Temperature	-20°C to +80°C
Damper	Vulkollan rings in end positions	Medium	Filtered, oil-bearing or oil-free compressed air
		Operating pressure	1 to 10 bar

Customized solutions on request

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

You can choose a **customized solution from any of the rogatti-**

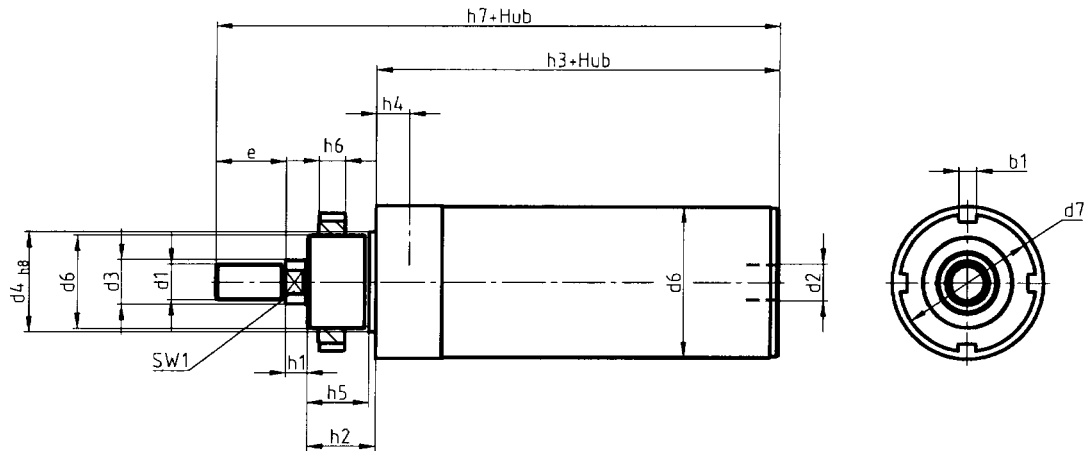
BEWEGUNGSTECHNIK standard series for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

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
- Simply request any other combination.

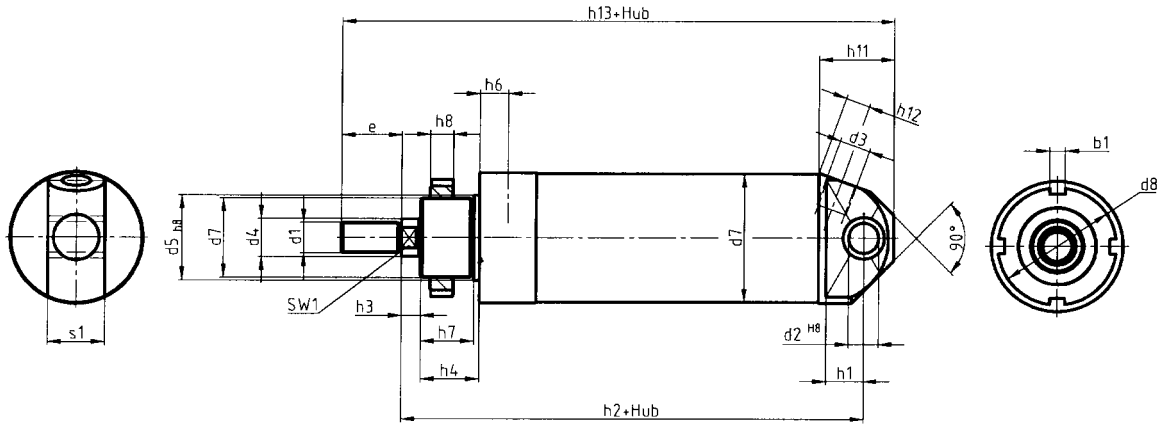
2.6.1 Attachment 53 Front thread attachment



Piston ∅	d ₁	d ₂	d ₃ ∅	d ₄ h ₈ ∅	d ₅ ∅	d ₆	d ₇ ∅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	b ₁	e	sw ₁
32	M10	G1/8"	12	32	38	M30x1.5	42	8	20	62	10	18	8	6	20	10
40	M12	G1/4"	16	40	46	M38x1.5	50	9	23	64	11	20	10	7	24	13
50	M16x1.5	G1/4"	20	45	56	M42x1.5	62	10	31	68	11	28	12	8	32	17
63	M16x1.5	G3/8"	20	45	70	M42x1.5	62	10	31	81	15	28	12	8	32	17
80	M20x1.5	G3/8"	25	60	88	M58x1.5	90	10	40	91	15	36	13	10	40	21
100	M20x1.5	G1/2"	25	60	108	M58x1.5	90	10	45	95	17	40	13		40	21

Piston ∅	Spring force at stroke length (N)										h ₇ at stroke				
	25		40		63		80		100		25	40	63	80	100
	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂					
32	45	100	50	100	38	91	50	100	50	100	135	167	190	227	247
40	60	100	45	100	50	110	50	105	53	116	145	177	200	237	257
50	70	130	63	130	63	110	63	120	65	130	166	181	221	238	258
63	70	130	63	130	63	110	63	120	65	130	179	194	234	251	271
80	90	130	90	130	80	170	65	130	65	130	209	221	261	271	291
100	120	200	120	200	100	200	100	200	80	230	215	230	270	287	307

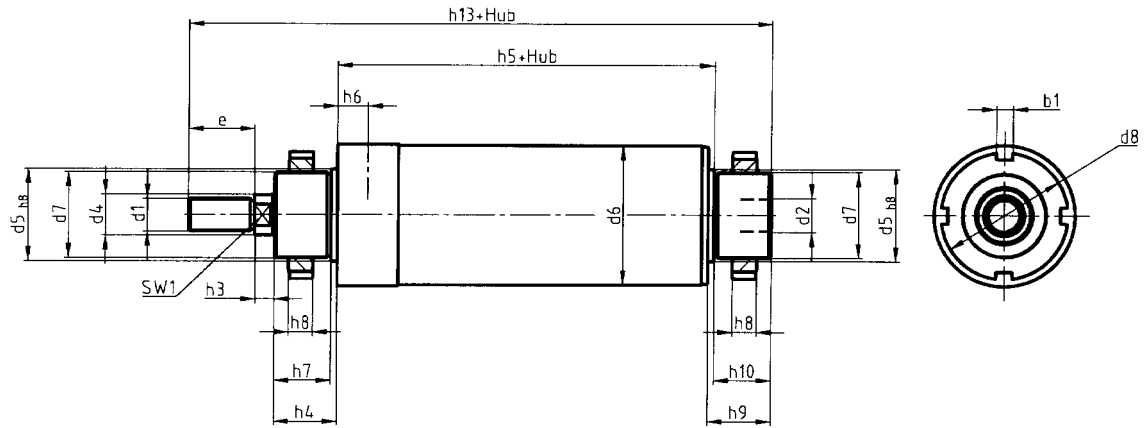
2.6.2 Attachment 55 Rear pivot attachment



Piston ∅	d ₁	d ₂ ∅ H ₈	d ₃	d ₄ ∅	d ₅ h ₈ ∅	d ₆ ∅	d ₇	d ₈ ∅	h ₁	h ₂	h ₃	h ₄	h ₆	h ₇	h ₈	h ₁₁	h ₁₂	b ₁	e	sw ₁	S1
32	M10	10	G1/8"	12	32	38	M30x1.5	42	13	103	8	20	10	18	8	26	8	6	20	10	19
40	M12	12	G1/4"	16	40	46	M38x1.5	50	17	113	9	23	11	20	10	32	10	7	24	13	24
50	M16x1.5	12	G1/4"	20	45	56	M42x1.5	62	17	126	10	31	11	28	12	32	11	8	32	17	28
63		16	G3/8"		45	70	M42x1.5	62	20	142	10	31	15	28	12	40	13	8	32	17	30
80	M20x1.5	16	G3/8"	25	60	88	M58x1.5	90	21	162	10	40	15	36	13	43	14	10	40	21	40
100	M20x1.5	20	G1/2"	25	60	108	M58x1.5	90	25	175	10	45	17	40	13	49	20	10	40	21	50

Piston ∅	Spring force at stroke length (N)										h ₁₃ at stroke				
	25		40		63		80		100		25	40	63	80	100
	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂					
32	45	100	50	100	38	91	50	100	50	100	135	167	190	227	247
40		100	45	100	50	110	50	105	53	116	145	177	200	237	257
50	70	130	63	130	63	110	63	120	65	130	166	181	221	238	258
63	70	130		130	63		63	120		130	179		234	251	
80	90	130	90	130	80	170	65	130	65	130	209	221	261	271	291
100	120	200	120	200	100	200	100	200	80	230	215	230	270	287	307

2.6.3 Attachment 63 Front and rear thread attachment



Piston ∅	d ₁	d ₂ ∅ H ₈	d ₄ ∅	d ₅ h ₈ ∅	d ₆ ∅	d ₇	d ₈ ∅	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	h ₉	h ₁₀	b ₁	e	sw ₁
32	M10	10	12	32	38	M30x1.5	42	8	20	62	10	18	8	20	18	6	20	10
40	M12	12	16	40	46	M38x1.5	50	9	23	64	11	20	10	23	20	7	24	13
50	M16x1.5	12	20	45	56	M42x1.5	62	10	31	68	11	28	12	24	21	8	32	17
63	M16x1.5	16	20	45	70	M42x1.5	62	10	31	81	15	28	12	24	21	8	32	17
80	M20x1.5	16	25	60	88	M58x1.5	90	10	40	91	15	36	13	30	26	10	40	21
100	M20x1.5	20	25	60	108	M58x1.5	90	10	45	95	17	40	13	30	25	10	40	21

Piston ∅	Spring force at stroke length (N)										h ₁₃ at stroke				
	25		40		63		80		100		25	40	63	80	100
	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂	F ₁	F ₂					
32	45	100	50	100	38	91	50	100	50	100	135	167	190	227	247
40	60	100	45	100	50	110	50	105	53	116	145	177	200	237	257
50	70	130	63	130	63	110	63	120	65	130	166	181	221	238	258
63	70	130	63	130	63	110	63	120	65	130	179	194	234	251	271
80	90	130	90	130	80	170	65	130	65	130	209	221	261	271	291
100	120	200	120	200	100	200	100	200	80	230	215	230	270	287	307

3 Short-stroke cylinder

3.1 Series 25 Ø8-25 mm single-acting

Technical features

Function Single-acting with spring return
 Design Compact cylinder
 We keep sets of seals for you in stock.
 Seals Perbunan
 Materials Piston rod: stainless steel;
 housing: brass
 Damper No damper
 Stroke length 6 mm
 PistonsØ 8, 12, 16, 20, 25 mm

Connections 8= M4, 12= M5, 16= M6,
 20= M8, 25= M10

Any fitting position

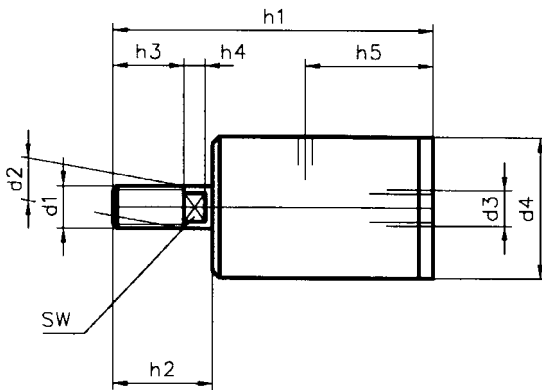
Temperature -20°C to +80°C

Medium Filtered, oil-bearing or oil-free
 compressed air

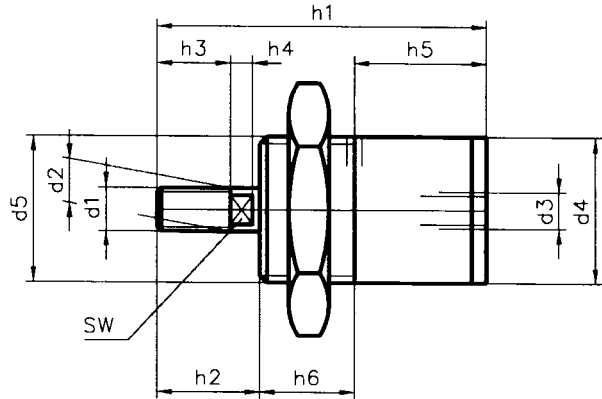
Operating pressure 1 to 10 bar

Customized solutions on request

3.1.1 Attachment 51



3.1.2 Attachment 53



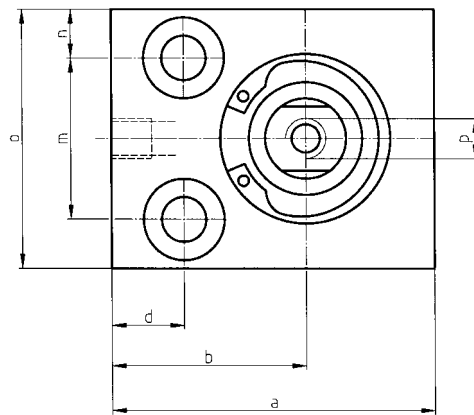
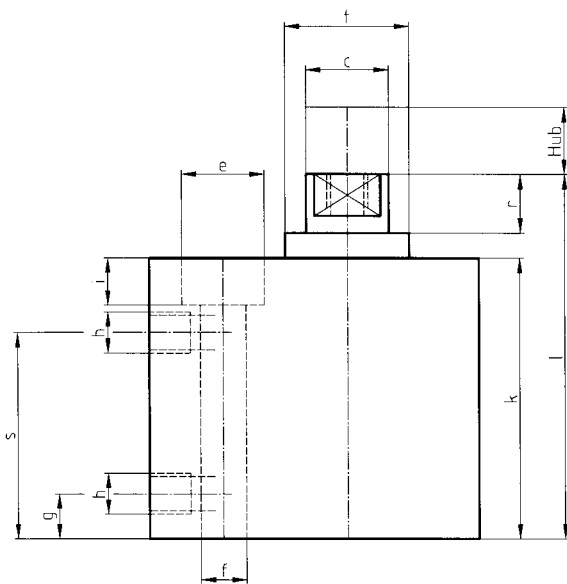
Part No. Att. type 51	Part No. Att. type 53	Piston Ø	Stroke	d ₁	d ₂ Ø	d ₃	d ₄ Ø	d ₅	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	sw	F ₁ N	F ₂ N
00016-46	00007-51	8	6	M4	4	M5	12	M12x1.5	33	8	8	-	18.5	12	-	3	8
00016-47	00016-52	12	6	M5	5	M5	16	M16x1.5	36.5	10	8	-	17	12	-	4.6	11.7
00016-48	00016-53	16	6	M6	6	M5	20	M20x1.5	45	12	10	-	21	12	-	9	19
00016-49	00010-85	20	6	M8	8	G1/8	25	M24x1.5	52	16	10	5	21	15	7	10	20
00016-50	00016-55	25	6	M10	10	G1/8	30	M30x1.5	61.5	20	10	5	24	17	9	11.5	23

3.2 Series 14 \varnothing 12-25 mm double-acting

Technical features

Function Double-acting
 Design Compact cylinder
 We keep sets of seals for you in stock.
 Seals Perbunan
 Materials Piston rod: stainless steel;
 housing: aluminium
 Damper No damper
 Stroke length 5, 10, 20 mm
 Pistons \varnothing 12, 16, 20, 25 mm

Connections 12= M5, 16= M5,
 20= M5, 25= G1/8
 Any fitting position
 Temperature -20°C to $+80^{\circ}\text{C}$
 Medium Filtered, oil-bearing or oil-free
 compressed air
 Operating pressure 1 to 10 bar
Customized solutions on request



Part No.	Piston \varnothing	Stroke	a	b	c \varnothing	d	e \varnothing	f \varnothing	g	h	i	k	l	m	n	o	p	r	s	t \varnothing
00010-55	12	10	25	16	5	7	6	3.4	7	M5	3.4	31	41	13	3.5	20	-	9	22.5	9
00018-44	16	10	40	24	8	9	10	5.5	6	M5	5.7	34	41	20	6	32	M5	7	25	11
00018-42	20	10	40	24	10	9	10	5.5	6	M5	5.7	34	44	20	6	32	M5	7	25	15
00018-43	25	10	55	32	15	14	10	5.5	9.5	G1/8	5.7	40	50	32	6.5	45	M6	7	30	20

3.3 Series 24 \varnothing 12-25 single-acting

Technical features

Function Single-acting with spring return
 Design Compact cylinder
 We keep sets of seals for you in stock.
 Seals Perbunan
 Materials Piston rod: stainless steel;
 housing: aluminium
 Damper No damper
 Stroke length 4, 5 mm
 Pistons \varnothing 12, 16, 20, 25 mm

Connections 12= M5, 16= M5,
 20= G1/8, 25= G1/8

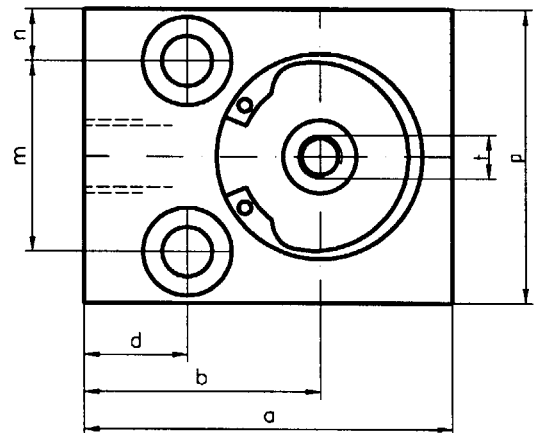
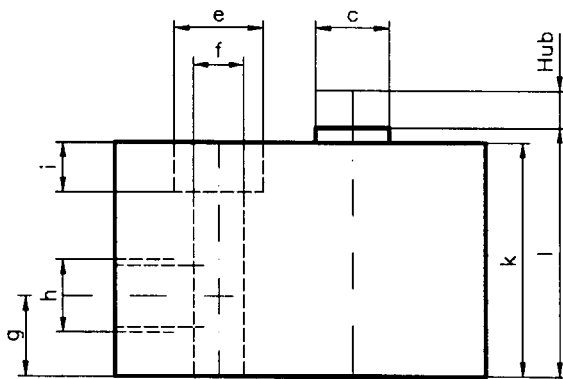
Any fitting position

Temperature -20°C to $+80^{\circ}\text{C}$

Medium Filtered, oil-bearing or oil-free
 compressed air

Operating pressure 1 to 10 bar

Customized solutions on request



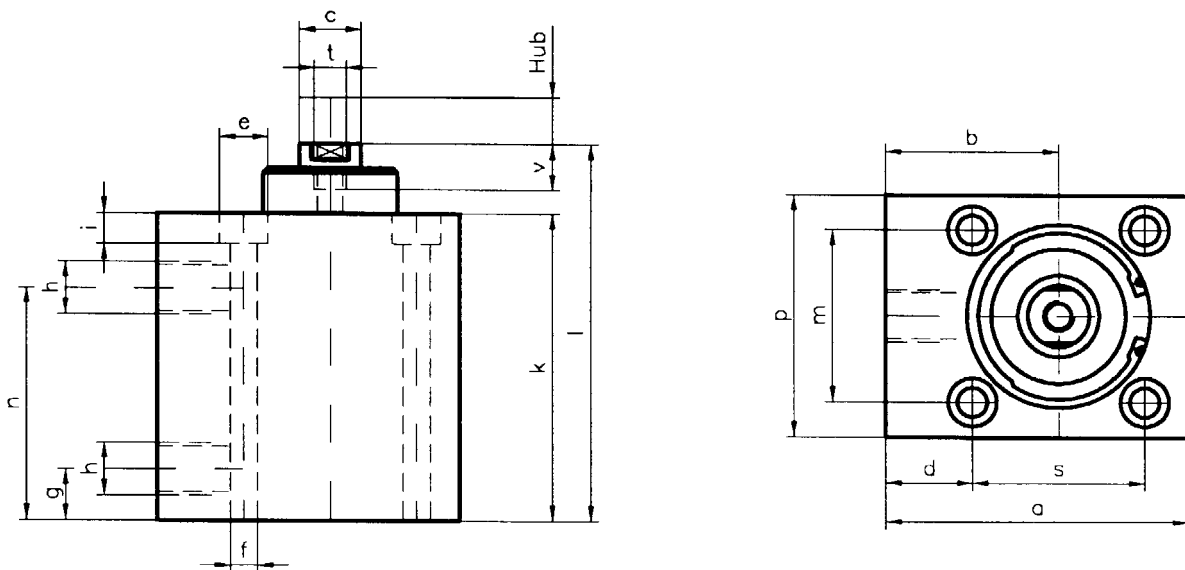
Part No.	Piston \varnothing	Stroke e	a	b	c \varnothing	d	e \varnothing	f \varnothing	g	h	i	k	l	m	n	p	t
00007-76	12	4	25	16	5	7	6	3.4	7	M5	3.4	16	17	13	3.5	20	-
00017-76	16	4	40	24	10	9	10	5.5	7.5	M5	5.7	20	21	20	6	32	-
00011-04	20	4	40	24	10	9	10	5.5	9.5	G1/8	5.7	20	21	20	6	32	M5
00010-87	25	5	55	32	15	14	10	5.5	9.5	G1/8	5.7	26	27	32	6.5	45	M6

3.4 Series 34 \varnothing 32-63 mm double-acting

Technical features

Function Double-acting
 Design Compact cylinder
 We keep sets of seals for you in stock.
 Seals Perbunan
 Materials Piston rod: stainless steel;
 housing: aluminium
 Damper No damper
 Stroke length 25 mm
 Pistons \varnothing 32, 40, 50, 63 mm

Connections 32= G1/8, 40= G1/8,
 50= G1/8, 63= G1/8
 Any fitting position
 Temperature -20°C to $+80^{\circ}\text{C}$
 Medium Filtered, oil-bearing or oil-free
 compressed air
 Operating pressure 1 to 10 bar
Customized solutions on request



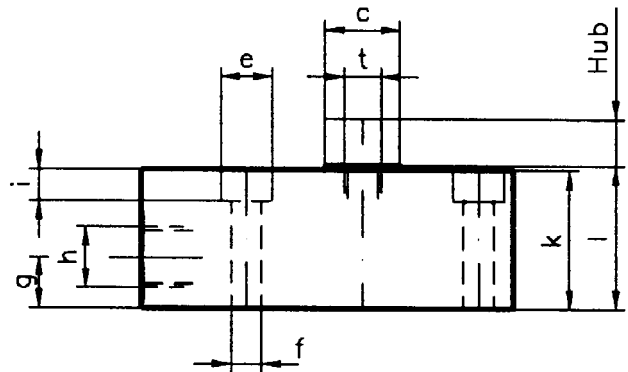
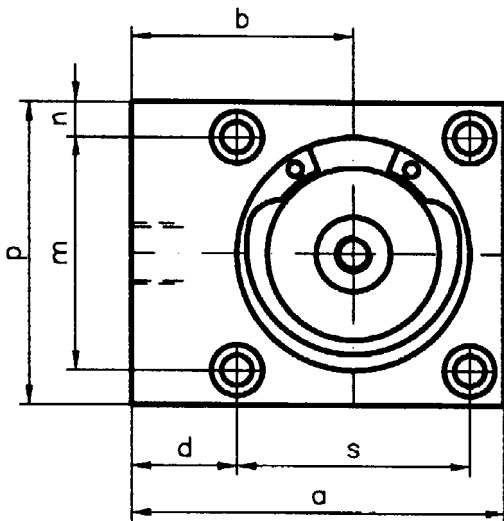
Part No.	Piston \varnothing	Stroke	a	b	c \varnothing	d	e \varnothing	f \varnothing	g	h	i	k	l	m	n	p	s	t	v
00016-93	32	25	56	32	12	16	10	5.5	9.5	G1/8	5.7	57.5	70.5	32	43.5	45	32	M6	12
00016-94	40	25	64.5	37	12	17	10	5.5	9.5	G1/8	5.7	57.5	74.5	40	43.5	55	40	M6	12
00016-95	50	25	73.5	41	16	16	11	6.6	11	G1/8	6.8	57.5	74.5	50	43.5	65	50	M8	12
00016-96	63	25	87	47	16	16	15	9	11	G1/8	9	60.5	77.5	62	44.5	80	62	M8	14

3.5 Series 44 \varnothing 32-63 mm single-acting

Technical features

Function Single-acting with spring return
 Design Compact cylinder
 We keep sets of seals for you in stock.
 Seals Perbunan
 Materials Piston rod: stainless steel;
 housing: aluminium
 Damper No damper
 Stroke length 5, 10 mm
 Pistons \varnothing 32, 40, 50, 63 mm

Connections 32= G1/8, 40= G1/8,
 50= G1/4, 63= G1/4
 Any fitting position
 Temperature -20°C to +80°C
 Medium Filtered, oil-bearing or oil-free
 compressed air
 Operating pressure 1 to 10 bar
Customized solutions on request



Part No.	Piston \varnothing	Stroke	a	b	c \varnothing	d	e \varnothing	f \varnothing	g	h	i	k	l	m	n	p	s	t
00018-41	32	5	55	32	15	14	10	5.5	9.5	G1/8	5.7	26	27	32	6.5	45	-	M6
00018-40	40	5	70	40	15	10	10	5.5	9.5	G1/8	5.7	26	27	40	7.5	55	50	M6
00018-39	50	10	80	47.5	16	22.5	11	6.6	11	G1/4	6.8	30	31	50	7.5	65	50	M8
00004-88	63	10	90	50	16	19	15	9	11	G1/4	9	35	36	62	9	80	62	M8

4 Stainless steel cylinders

4.1 Series V5 Ø 25-100 mm double-acting

Technical features

Double-acting function, optionally with magnetic piston

Design ISO round cylinder in stainless steel design. Round, smooth shape makes it hygienic and easy to clean.

We keep sets of seals for you in stock.

Seals Optionally in NBR, polyurethane or Viton

Materials Piston rod: steel, stainless, DIN 1.4301 or 1.4571
Cylinder: steel, stainless; DIN 1.4301 or 1.4571
Front and end pieces: steel, stainless steel, DIN 1.4301 or 1.4571

Damping Adjustable end-position damper

Stroke length Freely selectable stroke lengths,

max. 500 mm

Pistons Ø 32, 40, 50, 63, 80, 100 mm

Connections 32= G1/8", 40 / 50= G1/4", 63= G3/8", 80= G3/8", 100= G1/2"

Any fitting position

Temperature NBR, polyurethane, EPDM or PTFE: -20°C to +80°C
Viton: -20°C to +150°C

Medium Filtered, oil-bearing or oil-free compressed air

Operating pressure 1 to 10 bar

Customized solutions on request

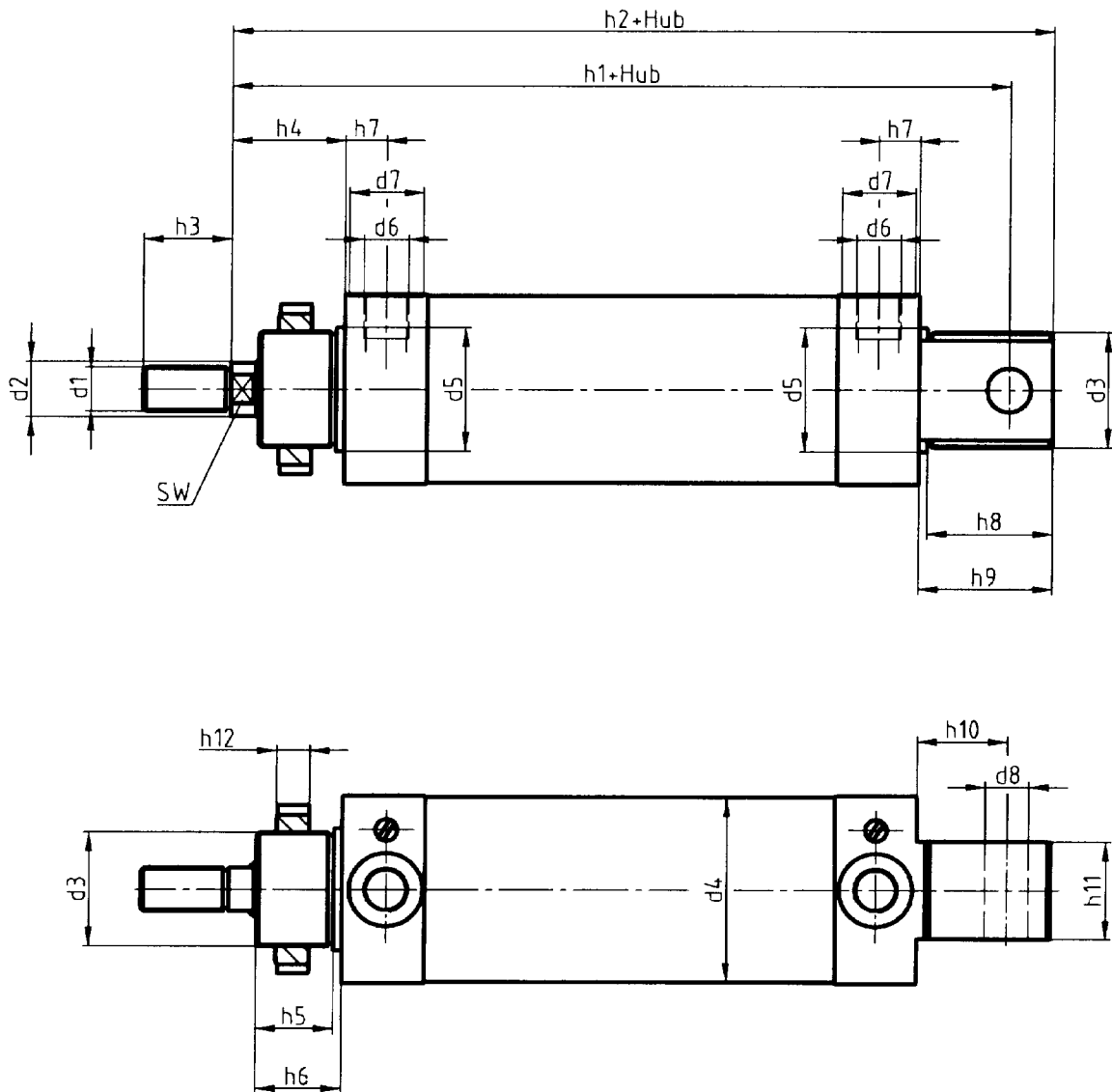
Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series								
Piston dia.								
Attachment type								
Stroke in mm								
Special version								

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.

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.

4.1.1 Attachment 53 Front threaded fitting (basic version)

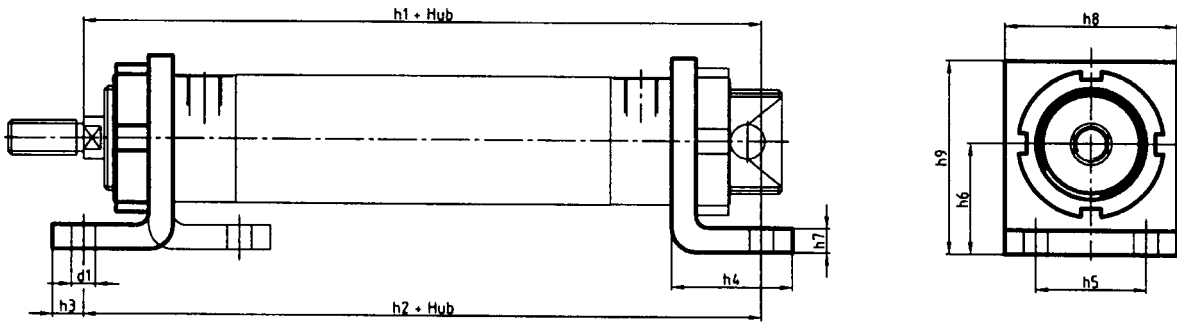


Piston ∅	d ₁	d ₂ ∅ h ₉	d ₃	d ₄	d ₅ h ₉	d ₆	d ₇ ∅	d ₈ ∅ H7	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	h ₉	h ₁₀	h ₁₁ -0.2 -0.5	h ₁₂	sw
25	M10 x 1.25	10	M22x1.5	30	22	G1/8	16	8	104	119.5	22	28	20	22	9	20	22	12	16	6	9
32	M10 x 1.25	12	M30x1.5	37	30	G1/8	16	10	142	152	22	26	17	20	9	29	32		26	8	10
40	M12 x 1.25	16	M38x1.5	45	38	G1/4	20	12	160	172	24	30	19	22	11	34	37	25	28	10	13
50	M16x1.5	20	M45x1.5	55	45	G1/4	20	12	170	182	32	37	26	29	11	36	39	27	32	12	17
63	M16x1.5	20	M45x1.5	68	45	G3/8	27	16	190	206	32	37	26	29	14	45	48	32	40	12	17
80	M20x1.5	25	M58x1.5	86	58	G3/8	27	16	210	228	40	46	31	35	14	50	54	36	50	13	21
100	M20x1.5	25	M58x1.5	106	58	G1/2	30	20	230	250	40	51	34	38	16	57	61	41	60	13	21

4.1.2 Attachment 54 Foot attachment

(one foot or 2 feet and lock nut)

Material: stainless steel as per DIN 1.4301 or 1.4571

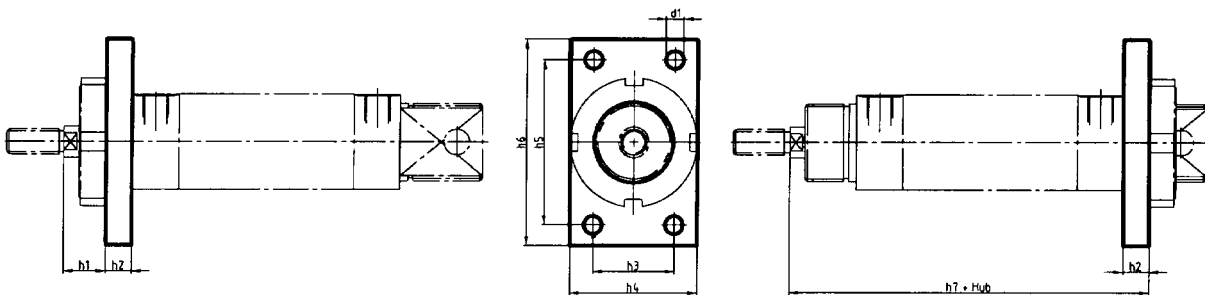


Piston Ø	d1 Ø	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇	h ₈	h ₉
25	6.5	114.5	103.5	8	25	40	25	3.5	54	45
32	7	144	142	11	35	32	32	4.5	50	56
40	9	163	161	15	43	36	36	4.5	55	63
50	9	175	170	15	47	45	45	5.5	65	79
63	9	190	185	15	47	50	50	5.5	75	89
80	12	215	210	20	61	63		6.5	95	112
100	14	230	220	25	66	75	71	6.5	110	129

4.1.3 Attachments 56 and 57 Rear or front flange attachment

56 rear

57 front



Piston Ø	d1 Ø	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	h ₇
25	6.5	23	5	--	40	50	66	102.5
32	7	16	10	32	50	64	80	130
40	9	20	10	36	55	72	90	145
50	9	25	12	45	65	90	110	155
63	9	25	12	50	75	100	120	170
80	12	30	16	63	95	126	150	190
100	14	35	16	75	110	150	180	205

5 Pneumatic telescoping cylinders

5.1 Telescoping cylinder Series 80 2-stage

Technical features

Function Double-acting, variable velocity in both directions due to controlled expelled air.

Design 2-stage

We keep sets of seals for you in stock.

Seals Perbunan

Materials Piston rod: stainless steel;
telescoping tube: steel,
chemically nickel-plated;
cylinder: hard anodized
aluminium;
front and end pieces:
aluminium

Damper None

Stroke length Freely selectable stroke lengths,
max. 1000 mm

Pistons \varnothing 20/32, 25/40, 30/50, 40/63,
50/80, 60/100 mm

Connections 20/32= G1/8", 25/40= G1/8",
30/50= G1/4", 40/63= G1/4",
50/80= G1/4", 63/100= G1/4"

Any fitting position

Temperature -20°C to +80°C

Medium Filtered, oil-bearing or oil-free
compressed air

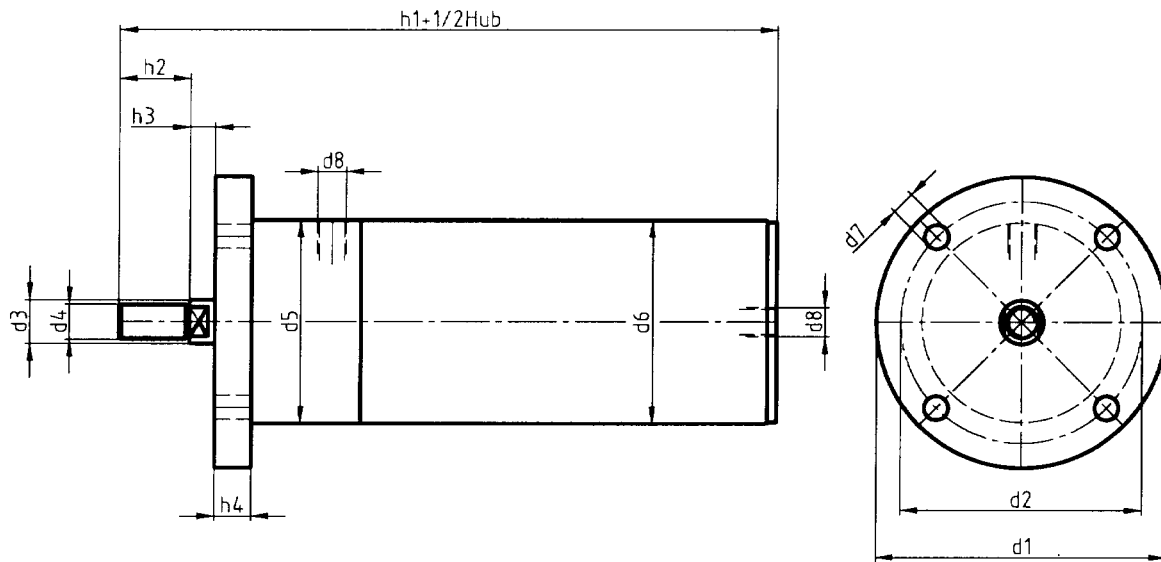
Operating pressure 1 to 10 bar

Customized solutions on request

Ordering example:

For a piston diameter of 30/50 mm and a stroke of 250 mm the
Order No. is 1 - 80 030 57 0250 - 0

5.1.1 Attachment 57 Front flange



PistonØ	Compressive force at 6 bar in N	Tensile force at 6 bar in N	d ₁ Ø	d ₂ Ø	d ₃ Ø	d ₄	d ₅ Ø	d ₆ Ø	d ₇ Ø	d ₈	h ₁	h ₂	h ₃	h ₄
20/32	165	125	70	56	10	M8	42	38	7	G1/8	119	16	7	12
25/40	260	200	75	60	12	M10	45	45	9	G1/8	138	20	7	12
30/50	370	270	85	70	16	M12	55	55	9	G1/4	142	24	7	12
40/63	660	500	110	85	20	M16x1.5	68	68	9	G1/4	180	32	10	12
50/80	1040	870	130	110	20	M16x1.5	86	86	11	G1/4	180	32	10	20
63/100	1650	1400	160	135	25	M20x1.5	106	106	13	G1/4	220	40	10	20

6 Hydraulic and pneumatic cylinders

6.1 Series 35

Technical features

Function	Double-acting, optionally with magnetic piston
We keep sets of seals for you in stock.	
Seals	Optionally in NBR, polyurethane or Viton
Materials	Piston rod: steel, stainless steel, DIN 1.4301 or 1.4571 Cylinder: painted steel or anodized aluminium front and end pieces: aluminium, anodized
Damper	none
Stroke length	Freely selectable stroke lengths, max. 500 mm

PistonsØ	32, 40, 50, 63, 80, 100 mm
Connections	32= G1/8", 40 / 50= G1/4", 63= G3/8", 80= G3/8", 100= G1/2"
Any fitting position	
Temperature	NBR, polyurethane: -20°C to +80°C Viton: -20°C to +150°C
Medium	Filtered, oil-bearing or oil-free compressed air
Operating pressure	1 to 10 bar
Customized solutions on request	

Ordering example

Pneumatic cylinder	1	-	40	050	51	0250	-	0
Series	_____							
Piston dia.	_____							
Attachment type	_____							
Stroke in mm	_____							
Special version	_____							

You can choose a **customized solution from any of the rogatti-**

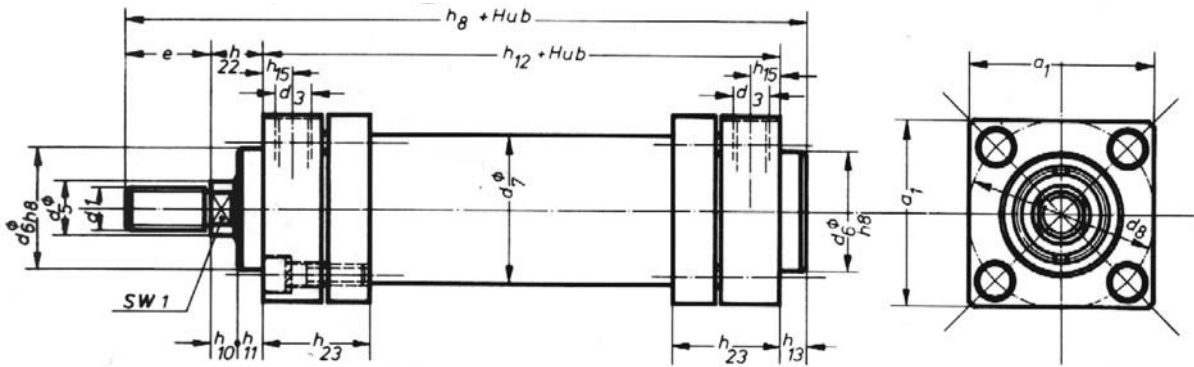
BEWEGUNGSTECHNIK standard series for no additional price: longer piston rod, different thread on piston rod, intermediate strokes, offset connections, smaller/larger connection thread.

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.

Ordering example:

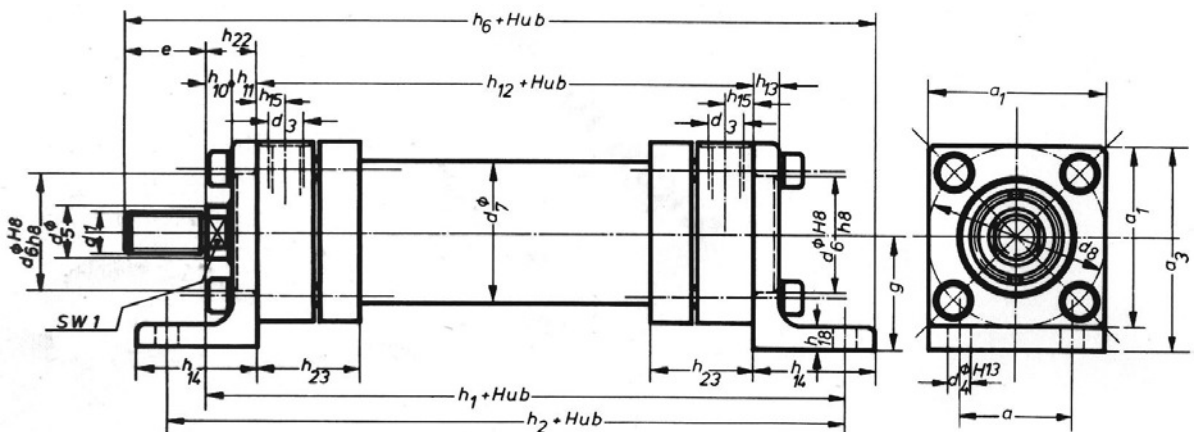
For a piston diameter of 40 mm and a stroke of 250 mm the Order No. is 1 - 35 040 51 0250 - 0

6.1.1 Attachment 51 Basic version



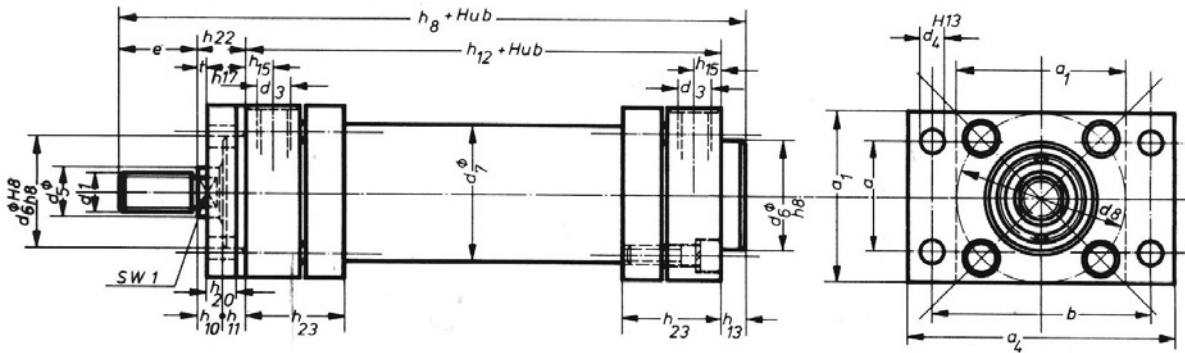
Piston ∅	a ₁	d ₁	d ₃	∅ d ₅	∅H8 d ₆ h8	∅ d ₇	∅ d ₈	h ₈	h ₁₀	h ₁₁	h ₁₂	h ₁₃	h ₁₅	h ₂₂	h ₂₃	e	sw ₁
32	50	M10	G ¹ / ₈	12	32	38	48	128	8	7	86	7	10	15	34	20	10
40	55	M12	G ¹ / ₄	16	40	46	56	137	9	7	90	7	11	16	36	24	13
50	70	M16x1.5	G ¹ / ₄	20	45	56	70	157	10	10	95	10	11	20	40	32	17
63	80	M16x1.5	G ³ / ₈	20	45	70	84	173	10	10	111	10	15	20	48	32	17
80	100	M20x1.5	G ³ / ₈	25	60	88	105	195	10	12	121	12	15	22	52	40	21
100	120	M20x1.5	G ¹ / ₂	25	60	108	127	208	10	12	134	12	17	22	56	40	21

6.1.2 Attachment 54 Foot attachment



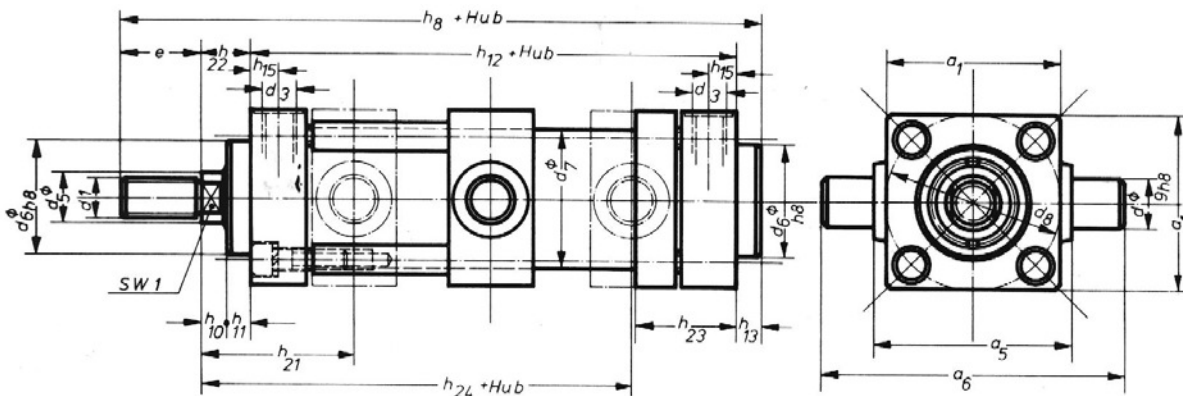
Piston ∅	a	a ₁	a ₃	b	d ₁	d ₃	∅ H13 d ₄	∅ d ₅	∅H8 d ₆ h8	∅ d ₇	∅ d ₈	h ₁	h ₂	h ₆	h ₁₀	h ₁₁	h ₁₂	h ₁₃	h ₁₄	h ₁₅	h ₁₈	h ₂₂	h ₂₃	e	g	sw ₁
32	32	50	57	64	M10	G ¹ / ₈	7	12	32	38	48	127	138	156	8	7	86	7	35	10	7	15	34	20	32	10
40	36	55	63.5	72	M12	G ¹ / ₄	9	16	40	46	56	136	150	172	9	7	90	7	42	11	7	16	36	24	36	13
50	45	70	80	90	M16x1.5	G ¹ / ₄	9	20	45	56	70	151	167	195	10	10	95	10	48	11	9	20	40	32	45	17
63	80	90			M16x1.5	G ³ / ₈	9	20	45	70	84	167	183	211	10	10	111	10	48	15	9	20	48	32	50	17
80	63	100	113	126	M20x1.5	G ³ / ₈	12	25	60	88	105	188	211	241	10	12	121	12	58	15	11	22	52	40	63	21
100	75	120	131	150	M20x1.5	G ¹ / ₂	14	25	60	108	127	201	224	256	10	12	134	12	60	17	11	22	56	40	71	21

6.1.5 Attachment 57 Head flange attachment



Piston ∅	a	a ₁	a ₄	a ₅	b	d ₁	d ₃	∅ H13 d ₄	∅ d ₅	∅H8 d ₆ h ₈	∅ d ₇	∅ d ₈	h ₈	h ₁₀	h ₁₁	h ₁₂	h ₁₃	h ₁₅	h ₂₀	h ₂₂	h ₂₃	e	t	sw ₁
32	32	50	80	58	64	M10	G ¹ / ₈	7	12	32	38	48	128	8	7	86	7	10	12	15	34	20	3	10
40	36	55	90	68	72	M12	G ¹ / ₄	9	16	40	46	56	137	9	7	90	7	11	12	16	36	24	4	13
50	45	70	110	80	90	M16x1.5	G ¹ / ₄	9	20	45	56	70	157	10	10	95	10	11	12	20	40	32	4	17
63	50	80	120	94	100	M16x1.5	G ³ / ₈	9	20		70	84	173	10	10	111	10	15	12	20	48	32	4	17
80	63	100	150	120	126	M20x1.5	G ³ / ₈	12	25	60	88	105	195	10	12	121	12	15	16	22	52	40	2	21
100	75	120	180	140	150	M20x1.5	G ¹ / ₂	14	25	60	108	127	208	10	12	134	12	17	16	22	56	40	2	21

6.1.6 Attachment 58 Middle swivel version



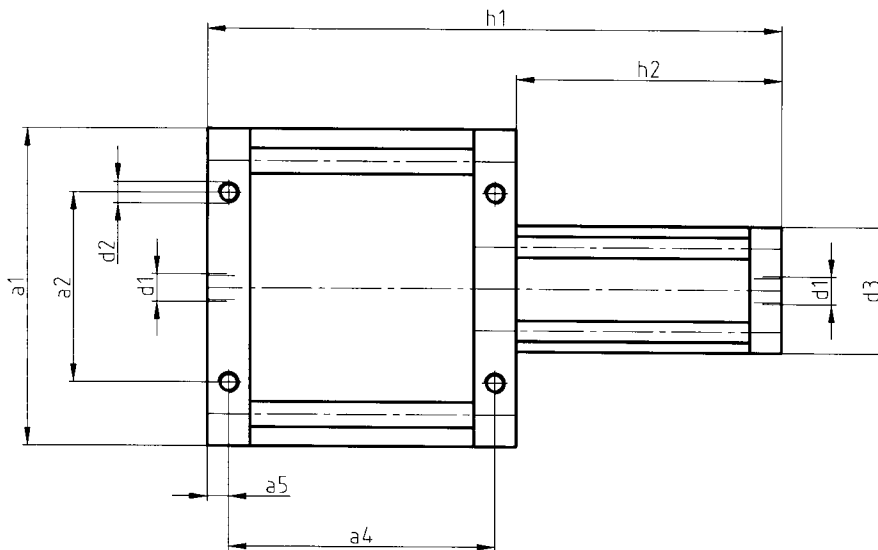
Piston ∅	a ₁	a ₅	a ₆	d ₁	d ₃	∅ d ₅	∅H8 d ₆ h ₈	∅ d ₇	∅ d ₈	∅ d ₈ h ₈	h ₈	h ₁₀	h ₁₁	h ₁₂	h ₁₃	h ₁₅	h ₂₁	h ₂₂	h ₂₃	h ₂₄	e	sw ₁
32	50	58	88	M10	G ¹ / ₈	12	32	38	48	12	128	8	7	86	7	10	50	15	34	66	20	10
40	55	68	104	M12	G ¹ / ₄	16	40	46	56	16	137	9	7	90	7	11	55	16	36	67	24	13
50	70	80	122	M16x1.5	G ¹ / ₄	20	45	56	70	20	157	10	10	95	10	11	61	20	40	74	32	17
63	80	94	136	M16x1.5	G ³ / ₈	20	45	70	84	20	173	10	10	111	10	15	69	20	48	82	32	17
80	100	120	170	M20x1.5	G ³ / ₈	25	60	88	105	25	195	10	12	121	12	15	74	22	52	91	40	21
100	120	140	190	M20x1.5	G ¹ / ₂	25	60	108	127	25	208	10	12	134	12	17	78	22	56	100	40	21

7 Boosters
7.1 Series 90

Technical features

Function Pneumatic-hydraulic
 Model
 We keep sets of seals for you in stock.
 Seals
 Materials Cylinder: steel;
 front, intermediate and end
 pieces: aluminium

Any fitting position
 Temperature -20°C to +80°C
 Medium Filtered, oil-bearing or oil-free
 compressed air
 Operating pressure 1 to 10 bar
Customized solutions on request



Part No.	Transfer ratio	Volume V in dm ³	Piston∅	d ₁	d ₂	h ₁	h ₂	a ₁	a ₂	a ₃	a ₄	a ₅
00012-50	1:5	0.1	100/45	G1/4	M10	270	125	110	50	60	120	12.5
00012-51	1:10		140/45	G1/4	M10	270	125	150	80	60	120	12.5
00017-22	1:10	0.2	140/45	G1/4	M10	396	188	150	80	60	183	12.5
00012-62	1:15	0.04	125/32	G1/4	M8	160	65	135	60	50	70	12.5
00012-52	1:16	0.1	180/45	G1/4	M10	270	125	190	100	60	120	12.5
00014-65	1:20	0.02	110/25	G1/8	M8	176	76	120	60	40	84	8
00012-53	1:20	0.1	200/45	G1/4	M10	270	125	210	120	60	120	12.5
00019-92	1:25	0.05	160/32	G1/4	M10	285	133	170	100	50	127	12.5
00020-90	1:30	0.02	140/25	G1/8	M8	178	77	150	60	40	84	8

