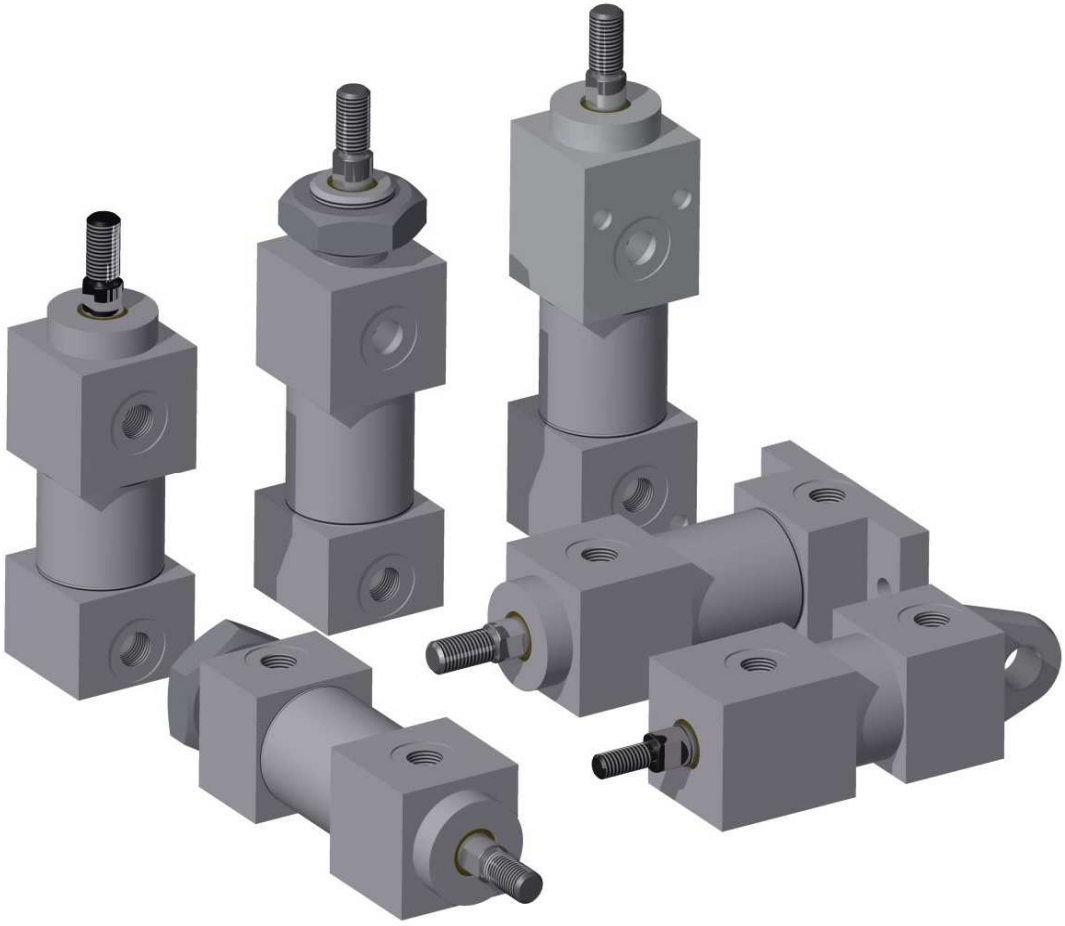
SERIES 10
Compact cylinder
double effect



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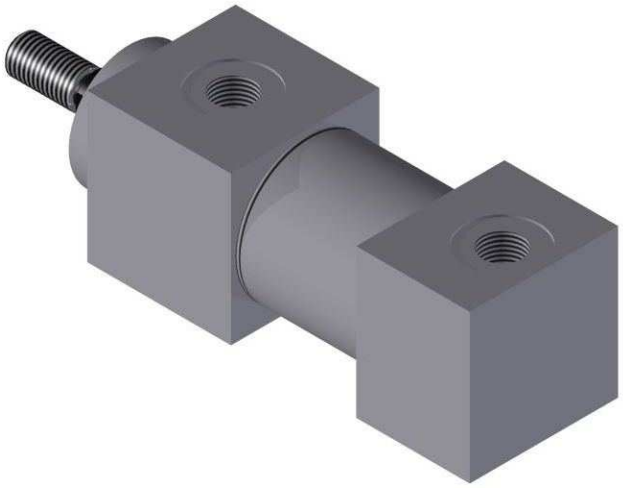
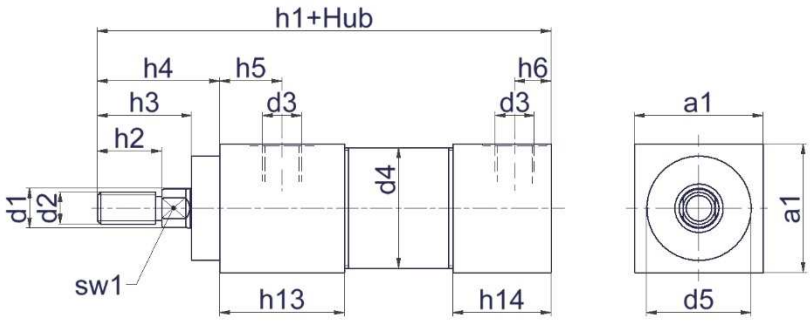
Technical characteristics	
Design type	Compact cylinder Front and end pieces bolted together with the cylinder pipe, so these cylinders are repairable.
Function	Double effect
Piston diameter in mm	8, 12, 16, 20, 25
Stroke in mm	Freely selectable, max. 500
Pneumatic connection	G1/8, G1/4
Installation position	Any
Temperature range	-20℃ to +80℃
Materials	- Piston rod from stainless steel - Cylinder pipe from aluminium, hard-anodised - Front and end pieces from aluminium, anodised
Seals	- Perbunan
Damping	End position damping by Vulkollan rings
Other	- Magnetic pistons upon request - Heat-resistant seals upon request - Customer-specific solutions upon request - Seal kits upon request
Pneumatic parameters	
Medium	Compressed air quality: 2.2.1 compliant with ISO 8573-1 (2=particle / 2=dew point / 1=oil concentration)
Operating pressure in bar	1 to 10

Mounting 51

Basic design

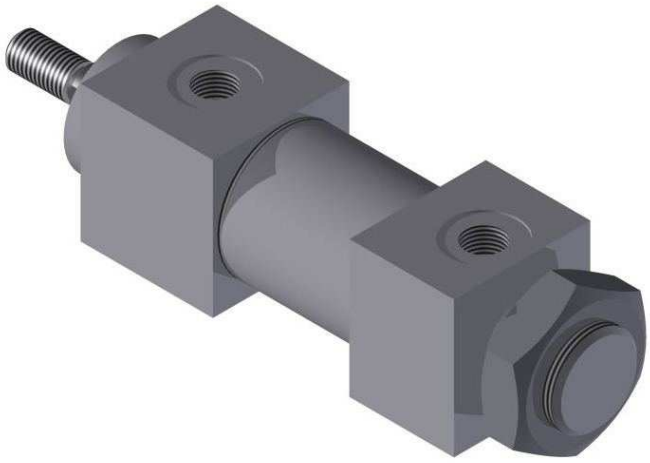


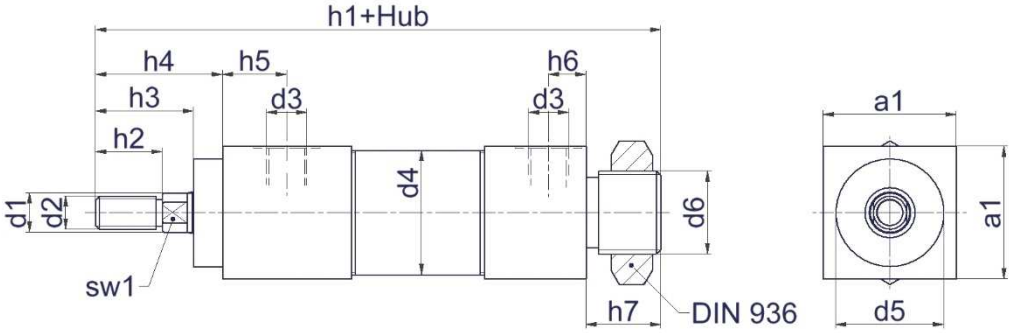


Piston Ø	d1 Ø	d2	d3	d4 Ø	d5 Ø	h1	h2	h3	h4	h5	h6	h13	h14	a1	sw1
8	3	M3	M5	12	9.5	44	6	7	10	9	5	18	14	14	-
12	5	M5	M5	16	13	51	11	12	15	11	5	22	16	19	-
16	6	M5	$G^1/_8$	20	16	71	12	15.5	20.5	13.5	9	27	22.5	22	5
20	8	M6	$G^1/_8$	25	20	80.5	12	16	23	15.5	9	31	24.5	27	6
25	10	M8	$G^1/_8$	30	26	88	16	23.5	30.5	15.5	9	31	24.5	32	8

Mounting 52

Rear thread mounting





Piston Ø	d1 Ø	d2	d3	d4 Ø	d5 Ø	d6	h1	h2	h3	h4	h5	h6	h7	a1	sw1
8	3	M3	M5	12	9.5	M8x1	54	6	7	10	9	5	10	14	-
12	5	M5	M5	16	13	M12x1.5	63	11	12	15	11	5	12	19	-
16	6	M5	$G^1/_8$	20	16	M12x1.5	83	12	15.5	20.5	13.5	9	12	22	5
20	8	M6	$G^1/_8$	25	20	M16x1.5	95.5	12	16	23	15.5	9	15	27	6
25	10	M8	$G^1/_8$	30	26	M20x1.5	106	16	23.5	30.5	15.5	9	18	32	8

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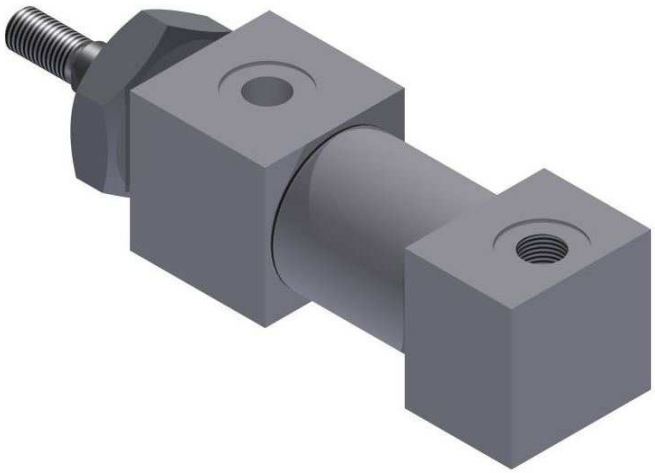
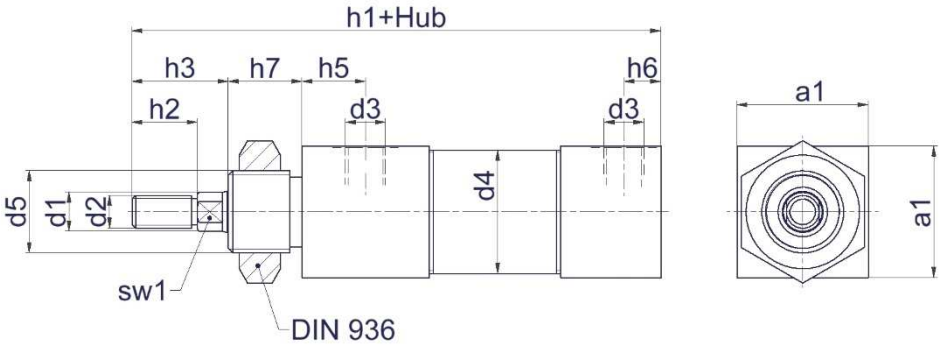
Mounting 53

Front thread mounting

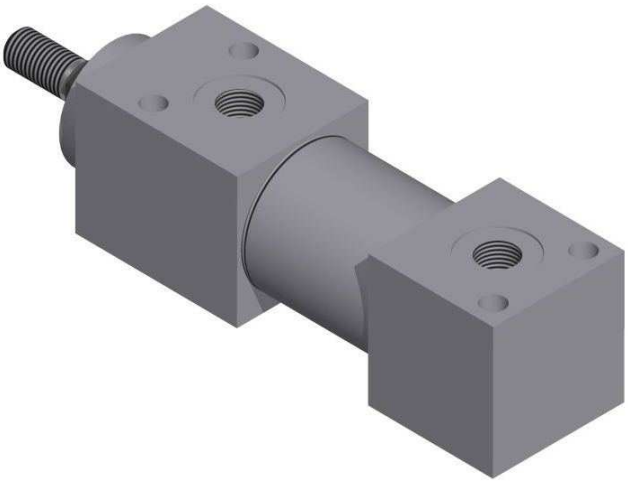


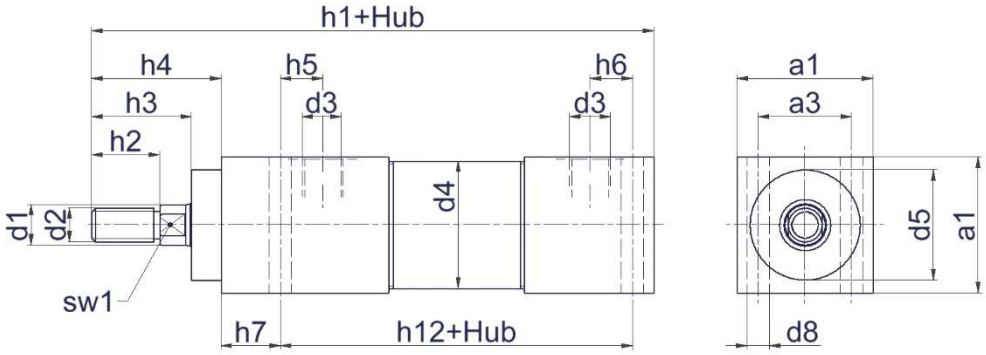


Piston Ø	d1 Ø	d2	d3	d5	d4 Ø	h1	h2	h3	h5	h6	h7	a1	sw1
8	3	M3	M5	M8x1	12	51	6	7	9	5	10	14	-
12	5	M5	M5	M12x1.5	16	60	11	12	11	5	12	19	-
16	6	M5	$G^1/_8$	M12x1.5	20	78	12	15.5	13.5	9	12	22	5
20	8	M6	$G^1/_8$	M16x1.5	25	88.5	12	16	15.5	9	15	27	6
25	10	M8	$G^1/_8$	M20x1.5	30	99	16	23.5	15.5	9	18	32	8

Mounting 54

Foot mounting





Piston Ø	d1 Ø	d2	d3	d4 Ø	d5 Ø	d8 Ø	h1	h2	h3	h4	h5	h6	h7	h12	a1	a2	sw1
8	3	M3	M5	12	9.5	3.3	53.5	6	7	10	6	6	8.5	32	14	8.5	-
12	5	M5	M5	16	13	4.3	62	11	12	15	6	6	11	32	19	12	-
16	6	M5	G1/8	20	16	4.3	83.5	12	15.5	20.5	10	10	11	48	22	15	5
20	8	M6	G1/8	25	20	5.3	95	12	16	23	10	10	14	53	27	18	6
25	10	M8	G1/8	30	26	5.3	102.5	16	23.5	30.5	10	10	14	53	32	22	8

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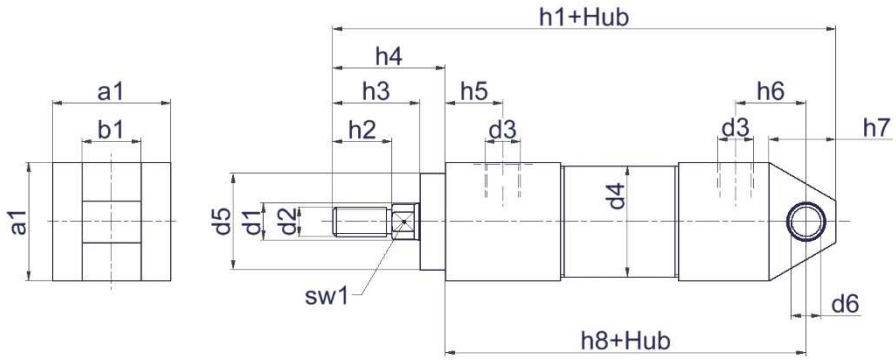
Mounting 55

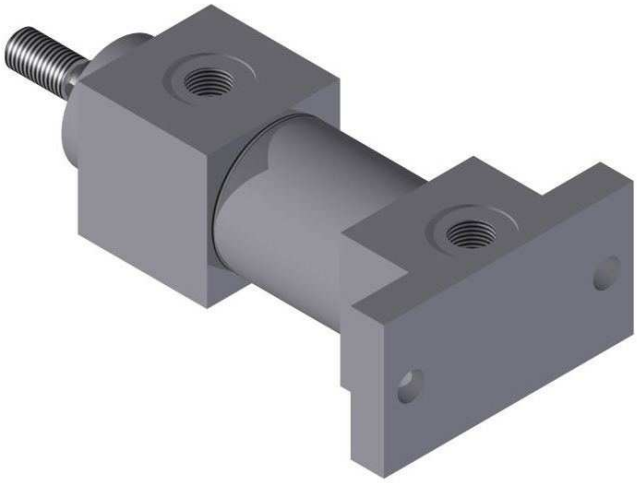
Rear swivel mounting

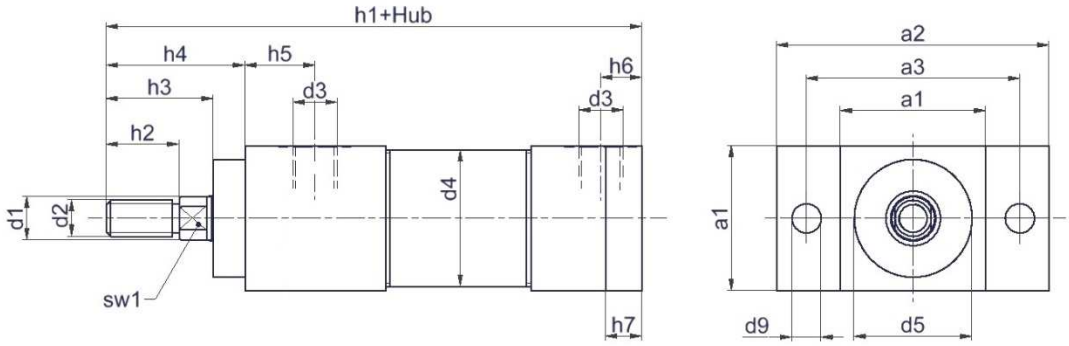


Piston Ø	d1 Ø	d2	d3	d4	d5 Ø	d6 Ø H7	h1	h2	h3	h4	h5	h6	h7	h8	a1	b1 -0.1	sw1
8	3	M3	M5	12	9.5	3	54	6	7	10	9	11	10	40	14	6	-
12	5	M5	M5	16	13	5	63	11	12	15	11	12	12	43	19	9	-
16	6	M5	$G^1/_8$	20	16	5	83	12	15.5	20.5	13.5	16	12	57.5	22	9	5
20	8	M6	$G^1/_8$	25	20	6	95.5	12	16	23	15.5	18	15	66.5	27	12	6
25	10	M8	$G^1/_8$	30	26	8	106	16	23.5	30.5	15.5	19	18	67.5	32	16	8

Mounting 56

Rear flange mounting





Piston Ø	d1 Ø	d2	d3	d4 Ø	d5 Ø	d9 Ø	h1	h2	h3	h4	h5	h6	h7	a1	a2	a3	sw1
8	3	M3	M5	12	9.5	3.5	44	6	7	10	9	5	3	14	28	22	-
12	5	M5	M5	16	13	4.5	51	11	12	15	11	5	4	19	36	28	-
16	6	M5	G1/8	20	16	5.5	71	12	15.5	20.5	13.5	9	5	22	45	34	5
20	8	M6	G1/8	25	20	6.5	80.5	12	16	23	15.5	9	8	27	55	42	6
25	10	M8	G1/8	30	26	6.5	88	16	23.5	30.5	15.5	9	8	32	60	47	8

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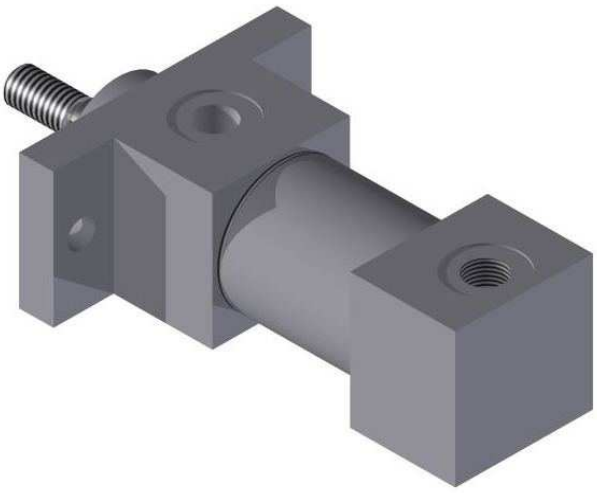
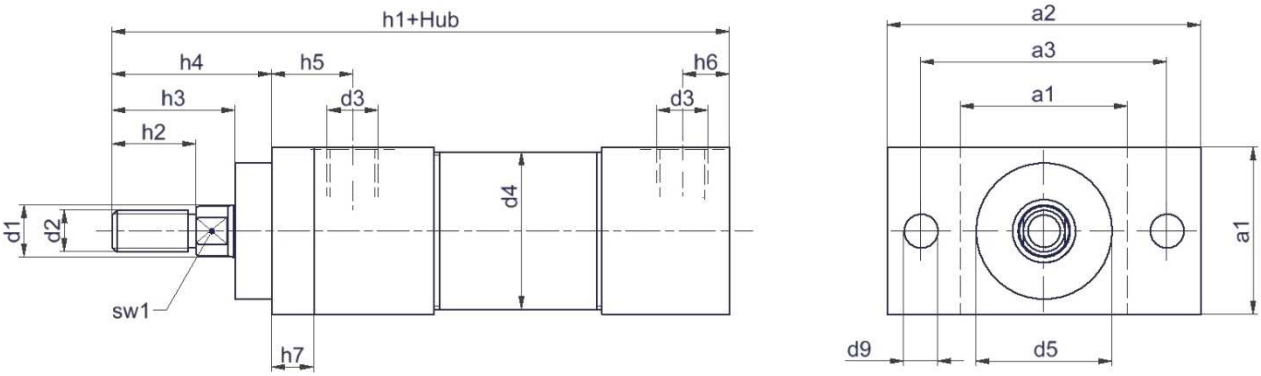
Mounting 57

Front flange mounting





Piston Ø	d1 Ø	d2	d3	d4 Ø	d5 Ø	d9 Ø	h1	h2	h3	h4	h5	h6	h7	a1	a2	a3	sw1
8	3	M3	M5	12	9.5	3.5	44	6	7	10	9	5	3	14	28	22	-
12	5	M5	M5	16	13	4.5	51	11	12	15	11	5	4	19	36	28	-
16	6	M5	$G^1/_8$	20	16	5.5	71	12	15.5	20.5	13.5	9	5	22	45	34	5
20	8	M6	$G^1/_8$	25	20	6.5	80.5	12	16	23	15.5	9	8	27	55	42	6
25	10	M8	$G^1/_8$	30	26	6.5	88	16	23.5	30.5	15.5	9	8	32	60	47	8

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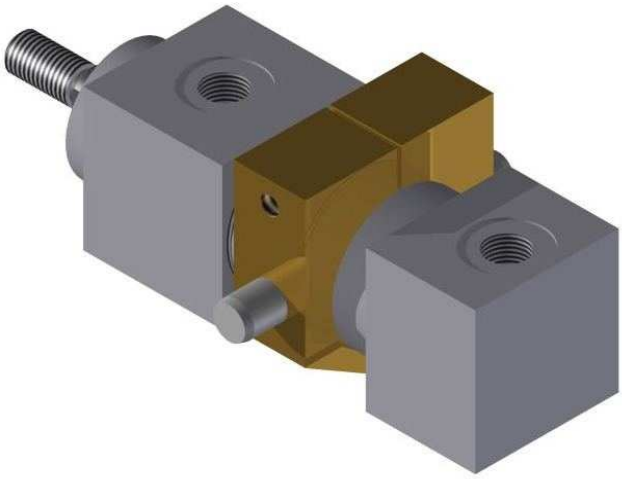
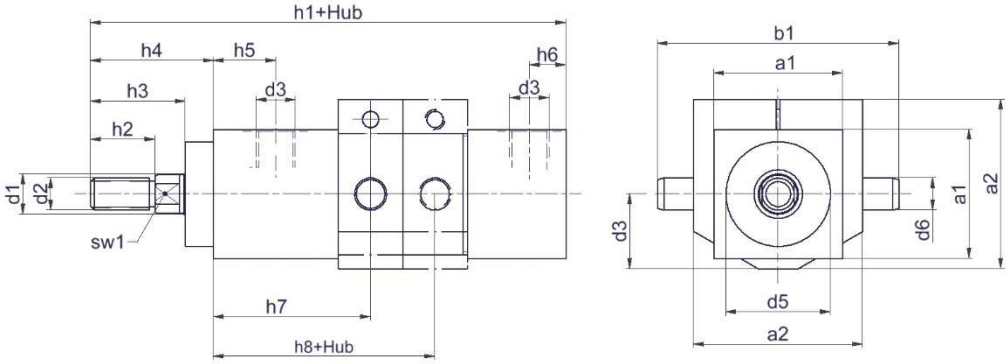
Mounting 58

Centre swivel mounting





Piston Ø	d1 Ø	d2	d3	d4 Ø	d6 Ø h8	h1	h2	h3	h4	h5	h6	h7	h8
8	3	M3	M5	9.5	3	44	6	7	10	9	5	22	16
12	5	M5	M5	13	5	51	11	12	15	11	5	27	15
16	6	M5	G1/8	16	5	71	12	15.5	20.5	13.5	9	32	23
20	8	M6	G1/8	20	6	80.5	12	16	23	15.5	9	37	27
25	10	M8	G1/8	26	8	88	16	23.5	30.5	15.5	9	39	25

Piston Ø	a1	a2	a3	b1	sw1
8	14	19	8	30	-
12	19	25	10	40	-
16	22	29	12	44	5
20	27	36	15	55	6
25	32	42	18.5	61	8

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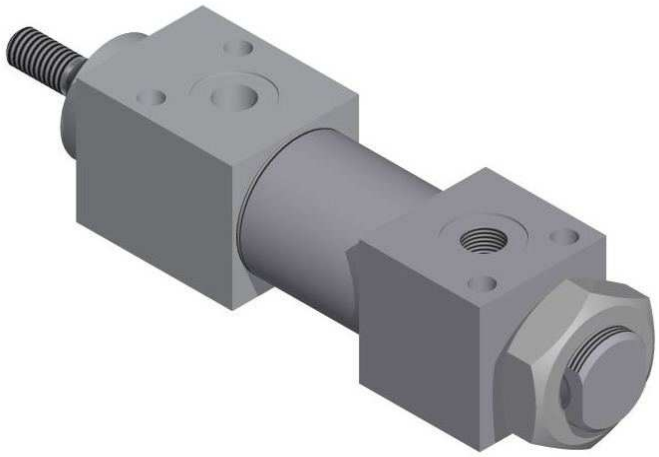
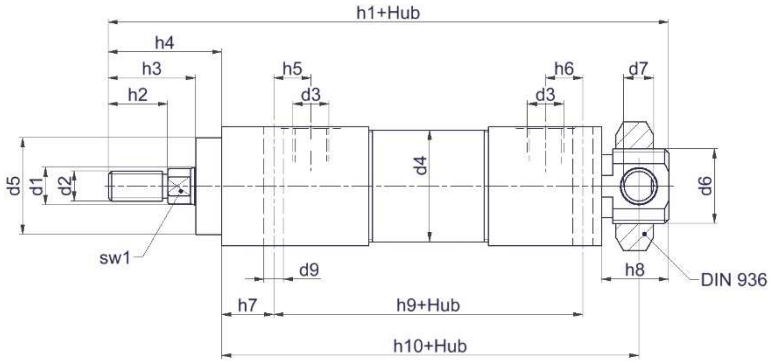
Mounting 59

Foot mounting, rear thread mounting and rear swivel mounting combined





Piston Ø	d1 Ø	d2	d3	d4 Ø	d5 Ø	d6	d7 Ø H7	d9 Ø	h1	h2	h3	h4	h5	h6	h7	h8
8	3	M3	M5	12	9.5	M8x1	3	3.3	63.5	6	7	10	6	6	8.5	10
12	5	M5	M5	16	13	M12x1.5	5	4.3	74	11	12	15	6	6	11	12
16	6	M5	$G^1/_8$	20	16	M12x1.5	5	4.3	95.5	12	15.5	20.5	10	10	11	12
20	8	M6	$G^1/_8$	25	20	M16x1.5	6	5.3	110	12	16	23	10	10	14	15
25	10	M8	$G^1/_8$	30	26	M20x1.5	8	5.3	120.5	16	23.5	30.5	10	10	14	18

Piston Ø	h9	h10	a1	a2	b1 -0.1	sw1
8	32	49.5	14	8.5	6	-
12	32	54	19	12	9	-
16	48	70	22	15	9	5
20	53	81	27	18	12	6
25	53	82	32	22	16	8

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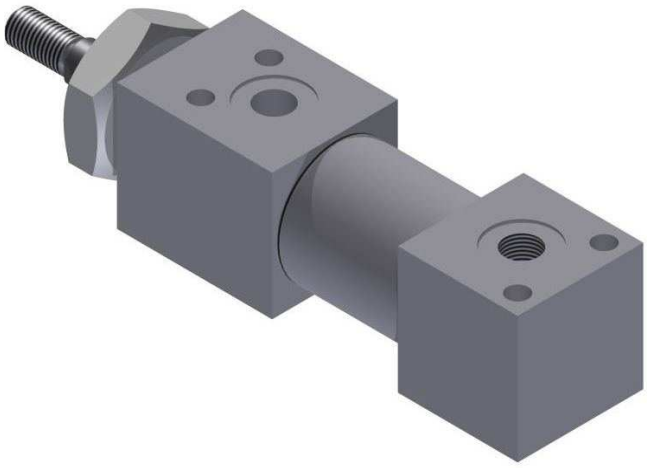
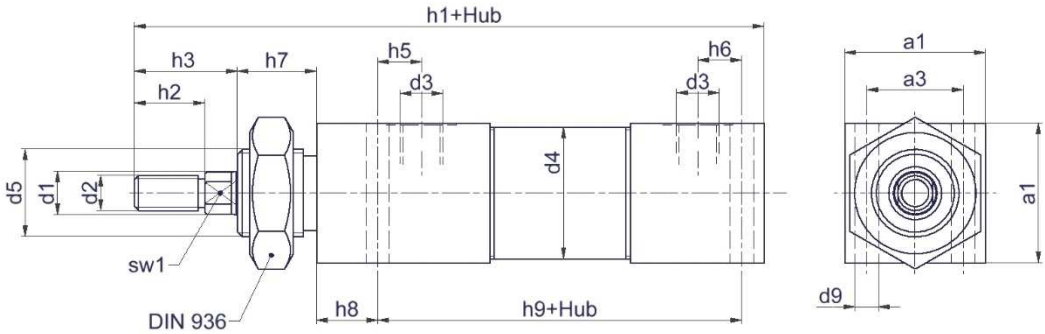
Mounting 60

Foot mounting and front thread mounting combined





Piston Ø	d1 Ø	d2	d3	d4 Ø	d5	d9 Ø	h1	h2	h3	h5	h6	h7	h8	h9	a1	a3	sw1
8	3	M3	M5	12	M8x1	3.3	60.5	6	7	6	6	10	8.5	32	14	8.5	-
12	5	M5	M5	16	M12x1.5	4.3	71	11	12	6	6	12	11	32	19	12	-
16	6	M5	G1/8	20	M12x1.5	4.3	90.5	12	15.5	10	10	12	11	48	22	15	5
20	8	M6	G1/8	25	M16x1.5	5.3	103	12	16	10	10	15	14	53	27	18	6
25	10	M8	G1/8	30	M20x1.5	5.3	113.5	16	23.5	10	10	18	14	53	32	22	8

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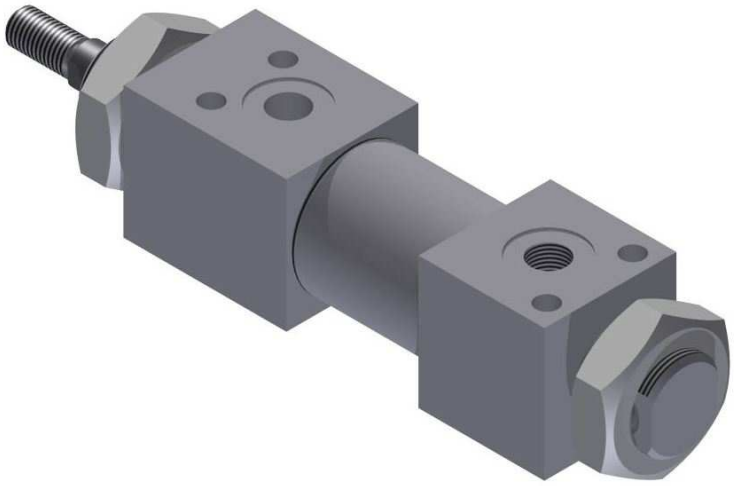
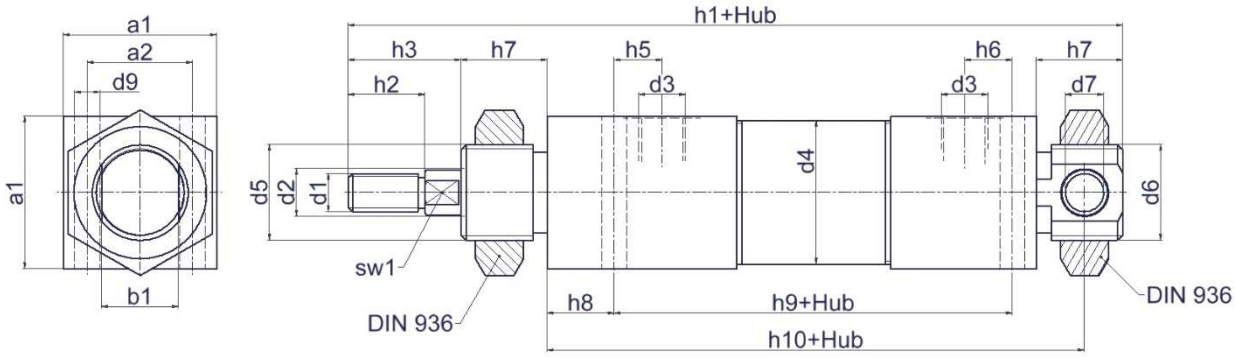
Mounting 61

Foot mounting, front and rear thread mounting and rear swivel mounting combined

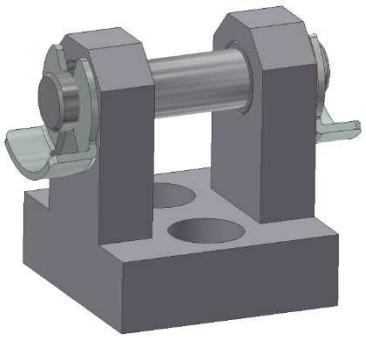


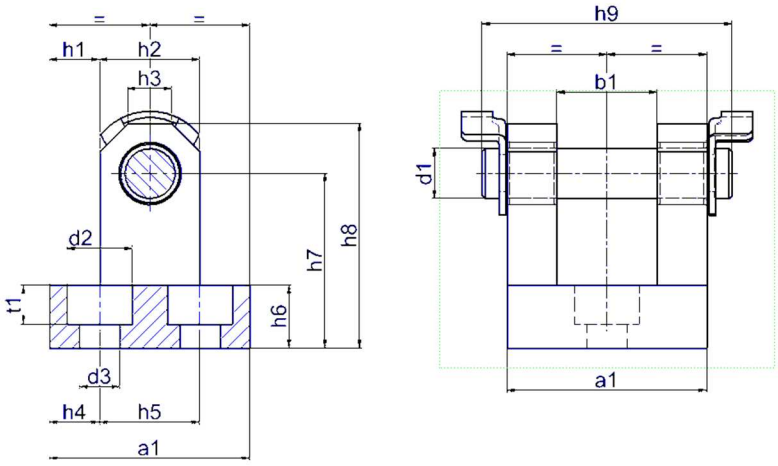


PistonØ	d Ø	d2	d3	d5	d6	d9 Ø	d6 Ø H7	d4 Ø	h1	h2	h3	h5	h6	h7	h8	h9	h10
8	3	M3	M5	M8x1	M8x1	3.3	3	12	70.5	6	7	6	6	10	8.5	32	49.5
12	5	M5	M5	M12x1.5	M12x1.5	4.3	5	16	83	11	12	6	6	12	11	32	54
16	6	M5	$G^1/_8$	M12x1.5	M12x1.5	4.3	5	20	102.5	12	15.5	10	10	12	11	48	70
20	8	M6	$G^1/_8$	M16x1.5	M16x1.5	5.3	6	25	118	12	16	10	10	15	14	53	81
25	10	M8	$G^1/_8$	M20x1.5	M20x1.5	5.3	8	30	131.5	16	23.5	10	10	18	14	53	82

PistonØ	a1	a2	b1 -0.1	sw 1
8	14	8.5	6	-
12	19	12	9	-
16	22	15	9	5
20	27	18	12	6
25	32	22	16	8

Bearing block
with bearing pins





Part no.	for piston Ø	d1 Ø h9	d2 Ø	d3 Ø	h1	h2	h3	h4	h5	h6	h7	h8	h9	a1	b1	t1
00005-53	8	3	5.9	3.2	3	8	6	3.5	7	4	12	16	18	14	6	2.2
00005-54	12	5	7.4	4.3	4.5	10	7	4.5	10	6.5	17	22	25	19	9	4.2
00005-55	16	5	9.4	5.3	6	10	7	5.5	11	8	20	25	28	22	9	5.2
00005-56	20	6	10.4	6.4	6.5	14	7	6.5	14	10	25	32	34	27	12	6.2
00005-57	25	8	10.4	6.4	8	16	7	8	16	10	28	36	40	32	16	6.2