

Locking unit, Series LU1

- Ø 32-100 mm

- Hold: adjustable spring force, Release: compressed air



Function

Release pressure

Ambient temperature min./max.

Medium temperature min./max.

Max. particle size

Oil content of compressed air

Weight

Clamp with eccentric tappet

2 ... 8 bar

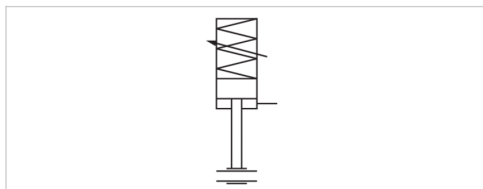
-20 ... 80 °C

-20 ... 80 °C

5 µm

0 ... 5 mg/m³

See table below



Technical data

Part No.	Piston Ø	suitable piston rod Ø	Piston rod extension	Compressed air connection	Static holding force
0821401130	32, 32 mm	12 mm	79 mm	G 1/8	840 N
0821401131	40, 40 mm	16 mm	81 mm	G 1/8	1100 N
0821401132	50, 63 mm	20 mm	100 mm	G 1/8	2700 N
0821401133	80, 100 mm	25 mm	140 mm	G 1/8	5800 N

Part No.	Weight
0821401130	1,75 kg
0821401131	1,75 kg
0821401132	3 kg
0821401133	8,8 kg

Holding force at 0 bar, Mounting elements LU3, LU4, LU5 are required for assembly and must be ordered separately as accessories.

Technical information

Warning: The Locking unit may not be used for the following applications:- for dynamic holding- in or as safety equipment

Locking unit may only be unlocked when turned off.

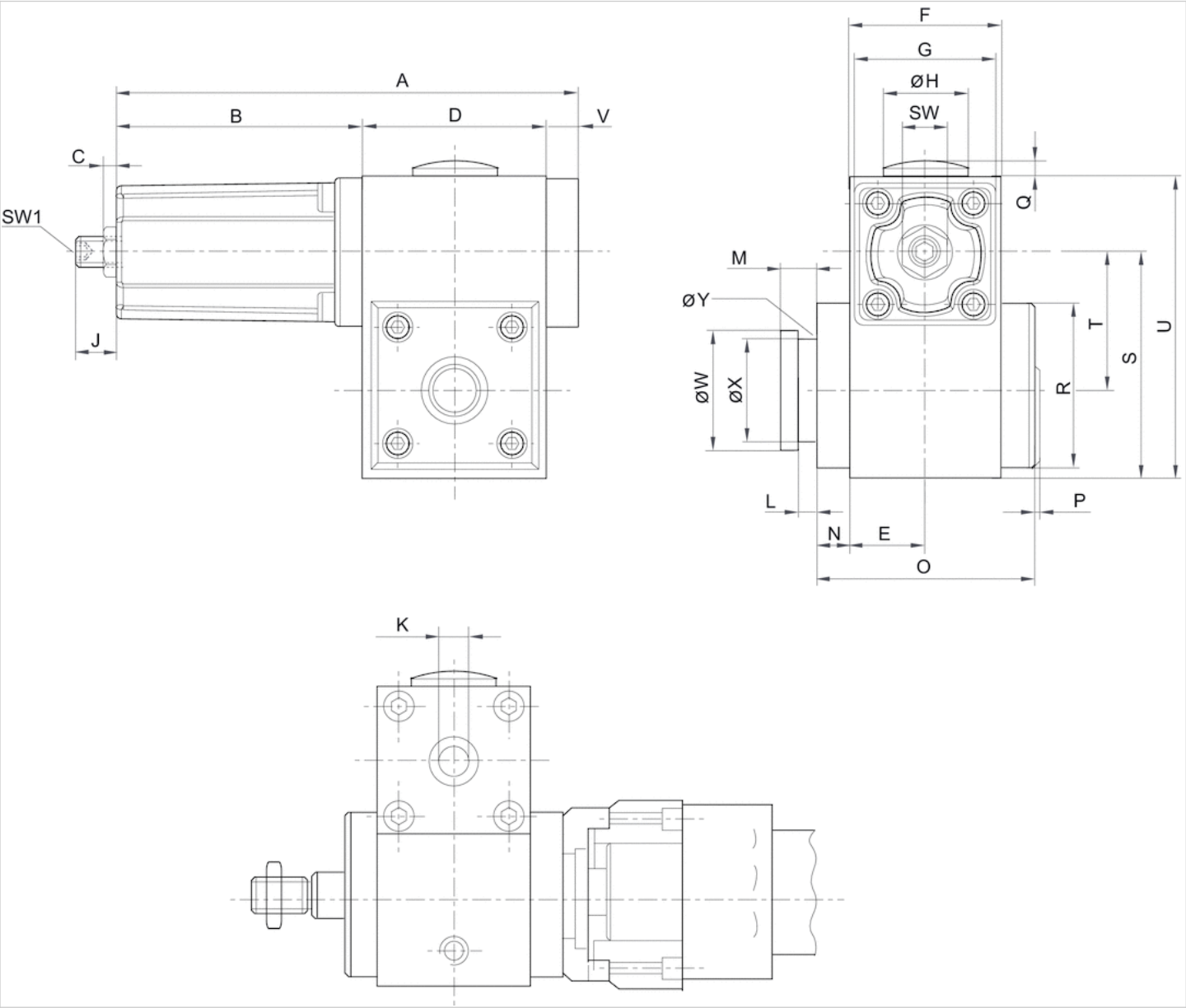
Note: The minimum release pressure is $\geq$ the working pressure of the cylinder! The holding force is dependent on the set spring force

Technical information

Material	
Housing	Aluminum, anodized
Cap	Die-cast aluminum

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	ØH	J	K	L	M	N	O	P	Q	R	S	SW	SW1	T	U
0821401130	135	69	10	56	23	46	45	30	19	G 1/8	4.1	8	9	65	3	2.5	50	69	15	5	41.9	92
0821401131	135	69	10	56	23	46	45	30	18	G 1/8	5.1	10	9	65	3	2.5	50	69	15	5	40.5	92
0821401132	169	90	10	69	30	60	55	30	17	G 1/8	5.1	10	9	84	3	2.5	60	80	15	5	48	111
0821401133	208	98	16.7	100	40	80	65	37.5	15	G 1/8	8.1	16	13	118	3	2	90	119	24	8	72	155

V	ØW	ØX	ØY
10	29.9	24	3
10	39.9	30	3
10	39.9	30	3
10	54.9	40	5

Locking unit, Series LU1

- Ø 32-100 mm

- hold: spring force, release: compressed air



Function

Release pressure

Ambient temperature min./max.

Medium temperature min./max.

Max. particle size

Oil content of compressed air

Weight

Clamp with eccentric tappet

See table below

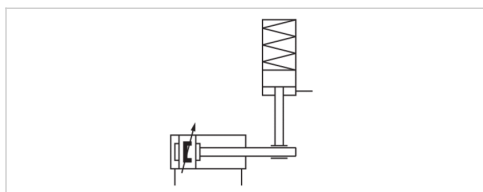
-20 ... 80 °C

-20 ... 80 °C

5 µm

0 ... 5 mg/m³

See table below



Technical data

Part No.	Piston Ø	suitable piston rod Ø	Piston rod extension	Compressed air connection	Release pressure
R412003730	32 mm	12 mm	79 mm	G 1/8	4,5 ... 8 bar
R412003731	40 mm	16 mm	81 mm	G 1/8	4,5 ... 8 bar
R412003732	50, 63 mm	20 mm	100 mm	G 1/8	4,5 ... 8 bar
R412003733	80, 100 mm	25 mm	140 mm	G 1/8	4,5 ... 8 bar
0821401134	32 mm	12 mm	79 mm	G 1/8	5,5 ... 8 bar
0821401135	40 mm	16 mm	81 mm	G 1/8	5,5 ... 8 bar
0821401136	50, 63 mm	20 mm	100 mm	G 1/8	5,5 ... 8 bar
0821401137	80, 100 mm	25 mm	140 mm	G 1/8	5,5 ... 8 bar

Part No.	Static holding force	Weight
R412003730	740 N	1,52 kg
R412003731	1000 N	1,5 kg
R412003732	2300 N	2,56 kg
R412003733	4000 N	7,7 kg
0821401134	840 N	1,52 kg
0821401135	1100 N	1,5 kg
0821401136	2700 N	2,56 kg
0821401137	5800 N	7,7 kg

Holding force at 0 bar, Mounting elements LU3, LU4, LU5 are required for assembly and must be ordered separately as accessories.

Technical information

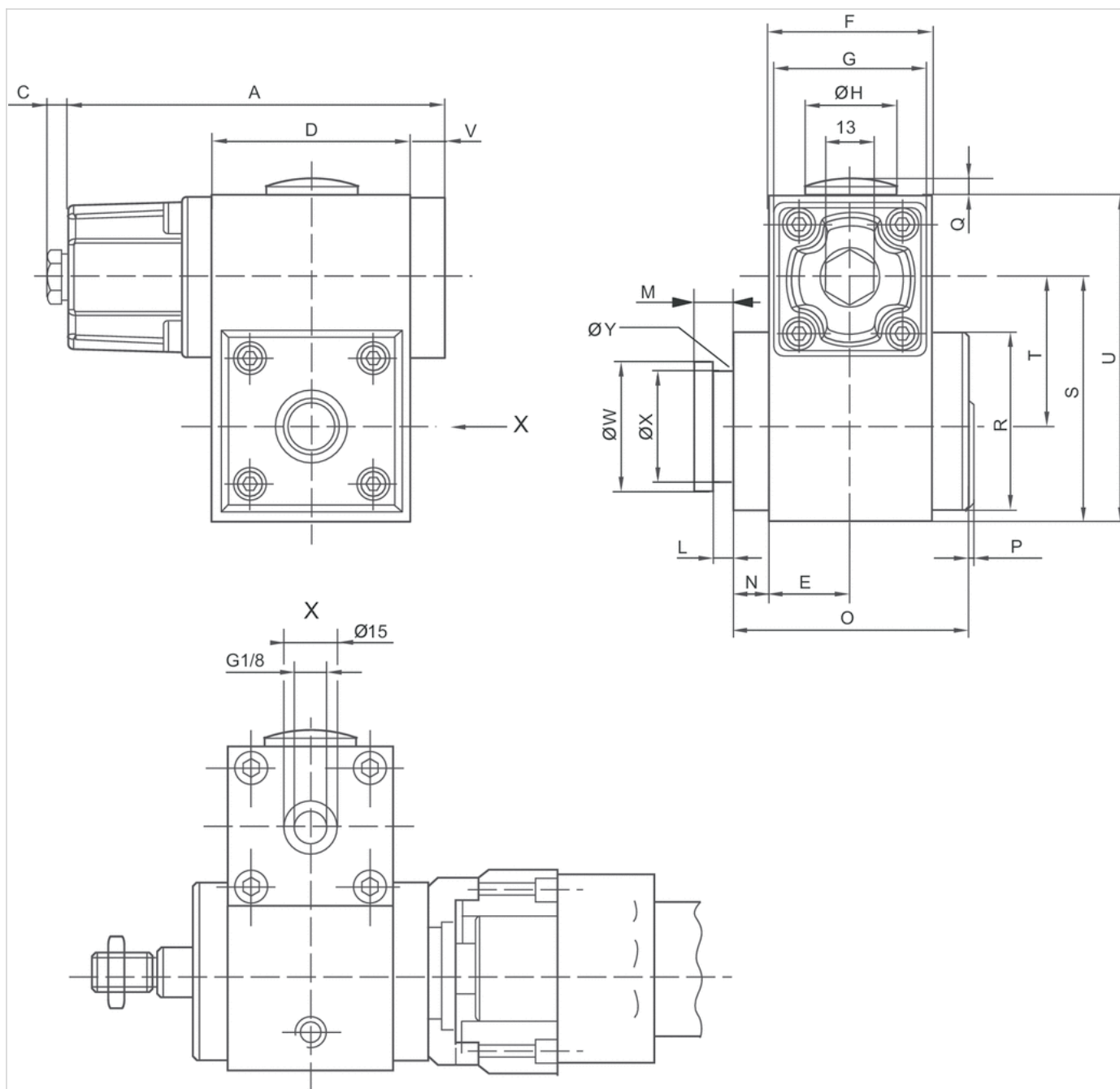
Warning:The Locking unit may not be used for the following applications:- for dynamic holding- in or as safety equipment
 Locking unit may only be unlocked when turned off.

Technical information

Material	
Housing	Aluminum, anodized
Cap	Die-cast aluminum

Dimensions

Dimensions



Dimensions

Part No.	A	C	D	E	F	G	Ø H	L	M	N	O	P	Q	R	S	T	U	V	Ø W	Ø X	Ø Y
R412003730	106	6	56	23	46	45	30	4.1	8	9	65	3	2.5	50	68.5	41.9	91.5	10	29.9	24	3
R412003731	106	6	56	23	46	45	30	5.1	10	9	65	3	2.5	50	68.5	40.5	91.5	10	39.9	30	3
R412003732	139.5	6	69	30	60	55	30	5.1	10	9	83.5	3	2.5	60	79.5	48	110	10	39.9	30	3
R412003733	176.5	6	100	40	80	65	37.5	8.1	16	13	118	3	2	90	119	72	155	10	54.9	40	5
0821401134	106	6	56	23	46	45	30	4.1	8	9	65	3	2.5	50	68.5	41.9	91.5	10	29.9	24	3
0821401135	106	6	56	23	46	45	30	5.1	10	9	65	3	2.5	50	68.5	40.5	91.5	10	39.9	30	3
0821401136	139.5	6	69	30	60	55	30	5.1	10	9	83.5	3	2.5	60	79.5	48	110	10	39.9	30	3
0821401137	176.5	6	100	40	80	65	37.5	8.1	16	13	118	3	2	90	119	72	155	10	54.9	40	5

Foot mounting, Series LU4

- for cylinders with locking units



Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³

Technical data

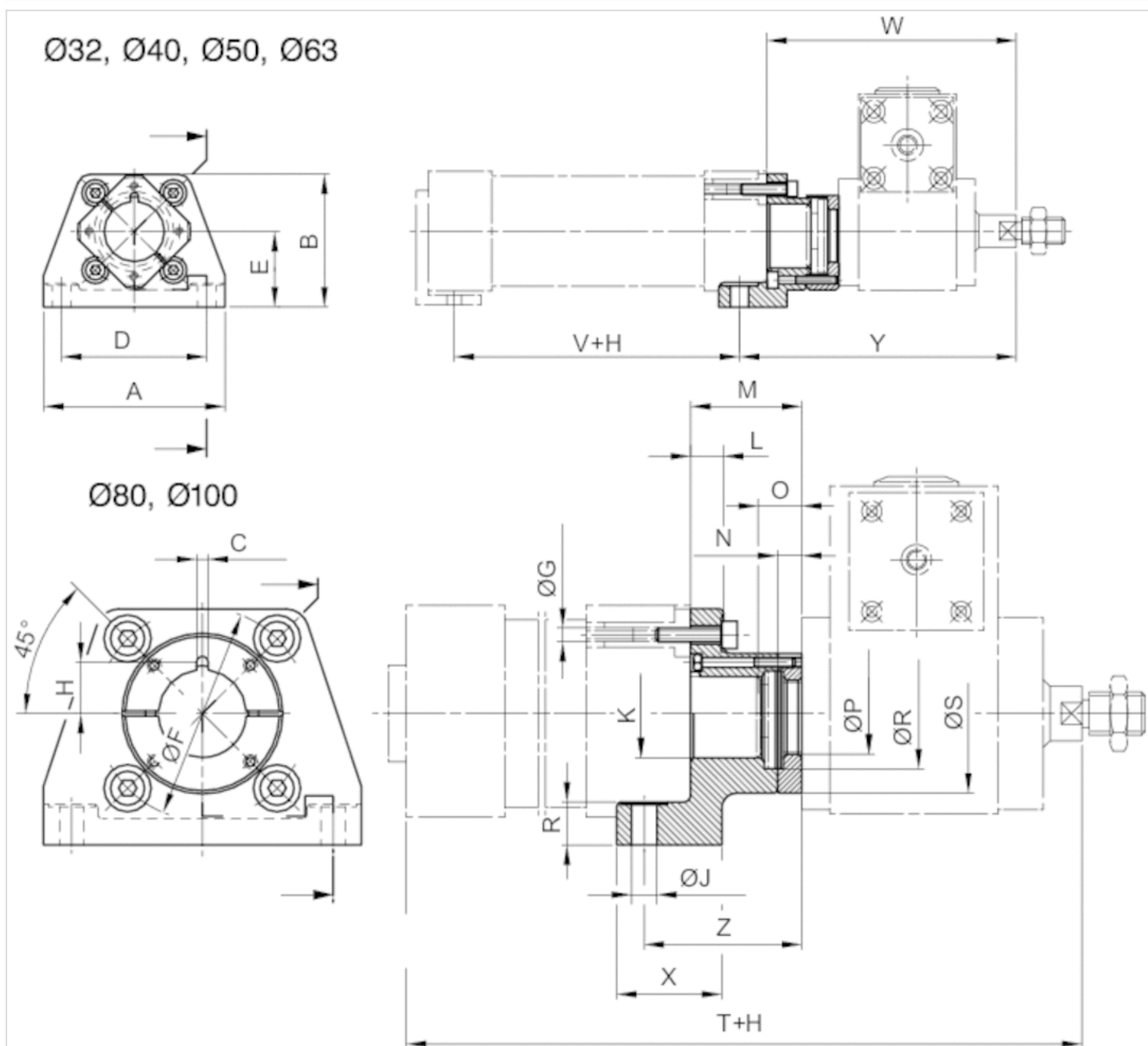
Part No.	For piston Ø
1827001520	32 mm
1827001521	40 mm
1827001522	50 mm
1827001526	63 mm
1827001524	80 mm
1827002152	100 mm

Technical information

Material	
Housing	Nodular graphite iron, galvanized

Dimensions

Dimensions



H = stroke

The locking unit can be rotated by 4x90°.

Dimensions

Part No.	A	B	C ±0,1	D ±0,1	E	Ø F	Ø G H13	I	J H8	K H10	L	M	N	O	Ø P	R
1827001520	79	57	3.6	65	32	46	6.6	13.2	6.6	30	7	27	3.9	—	24.2	9
1827001521	90	64	3.6	75	36	54	6.6	18.2	6.6	35	9.5	33	4.9	13	30.2	11
1827001522	110	80	3.6	90	45	66	8.4	18.2	9	40	11	38	4.9	—	30.2	15
1827001526	120	90	3.6	100	50	80	8.4	18.2	9	45	11	38	4.9	—	30.2	15
1827001524	153	113	6	128	63	102	10.5	24.5	11	45	15	52	7.9	18	40.2	19.5
1827002152	176	133	6	148	71	126	10.5	24.6	11	55	15	57	7.9	—	40.2	19.5

Ø R	Ø S	T	V	W	X	Y	Z
30	46.5	199	68	105	32	118	40
40	55.5	216	79	111	32	124	46
40	66	243	74	137	41	153	54
40	71	258	89	137	41	153	54
55	75	314	84	186	50	208	74
55	80	329	94	191	50	213	79

Flange mounting, Series LU5

- for cylinders with locking units



Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³

Technical data

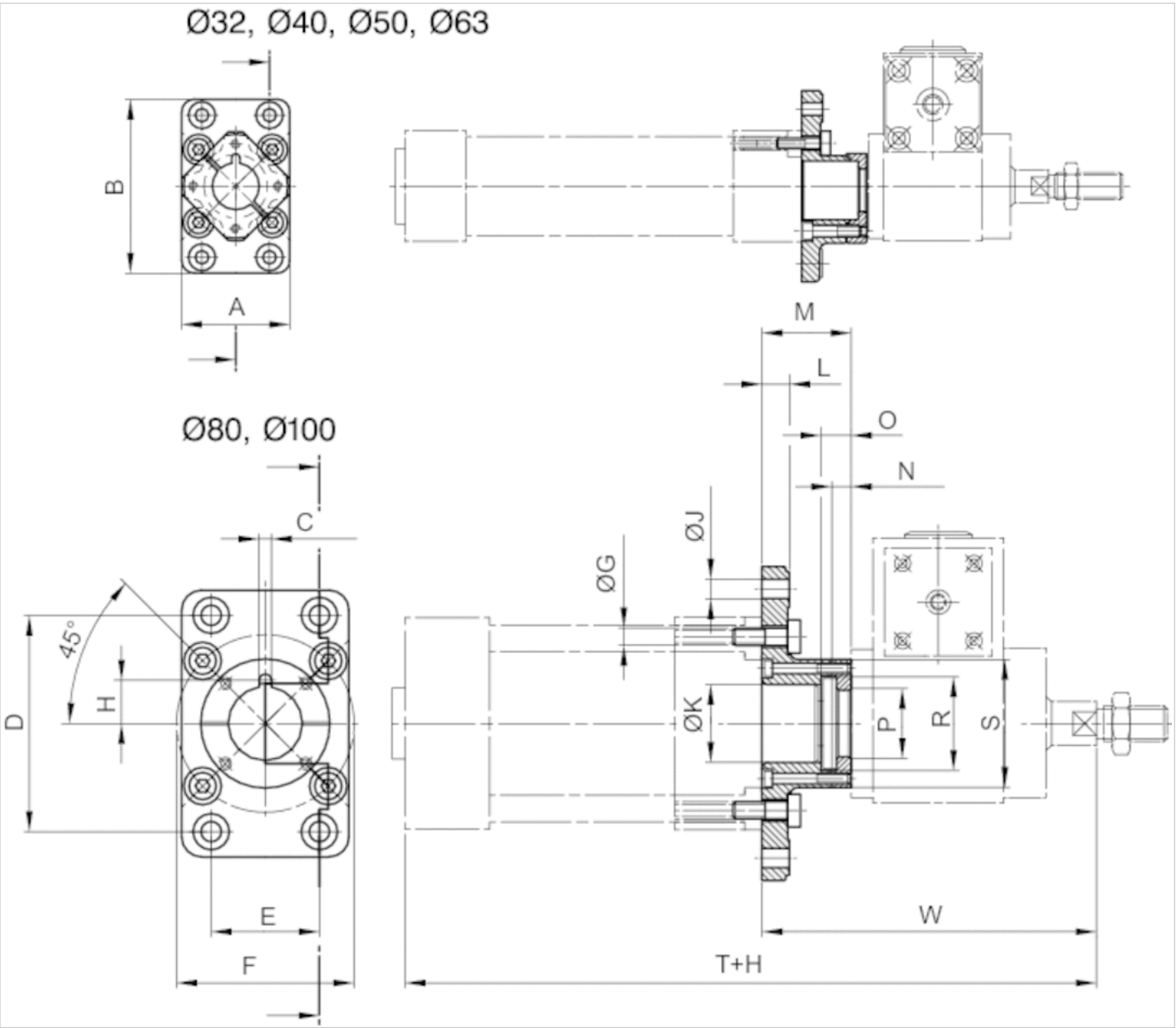
Part No.	For piston Ø
1827001512	32 mm
1827001513	40 mm
1827001514	50 mm
1827001503	63 mm
1827001516	80 mm
1827001517	100 mm

Technical information

Material	
Housing	Nodular graphite iron, galvanized

Dimensions

Dimensions



Dimensions

A	B	C ±0,1	D ±0,1	E ±0,1	Ø F ±0,2	Ø G H13	H	Ø J H13	Ø K H10	L	M	N ±0,1
50	79	3.6	64	32	46	6.6	13.2	7	30	8	27	3.9
56	91	3.6	72	36	54	6.6	18.2	9	35	10	33.3	4.9
70	111	3.6	90	45	66	8.4	18.2	9	40	12	38.3	4.9
80	120	3.6	100	50	80	8.4	18.2	9	45	12	38.3	4.9
100	153	6	126	63	102	10.5	24.5	12	45	16	52	7.9
120	178	6	150	75	126	10.5	24.6	14	55	16	57	7.9

Ø 1)	Ø P ±0,2	Ø R ±0,5	Ø S	W
8	24.2	33	50	105
10	30.2	40	55.5	111

O 1)	Ø P +0,2	Ø R +0,5	Ø S	W
10	30.2	40	66	137
10	30.2	40	71	137
16	40.2	55	75	186
16	40.2	55	80	191

1) Min.

Mounting flange, Series LU3

- for cylinders with locking units



Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Weight	See table below

Technical data

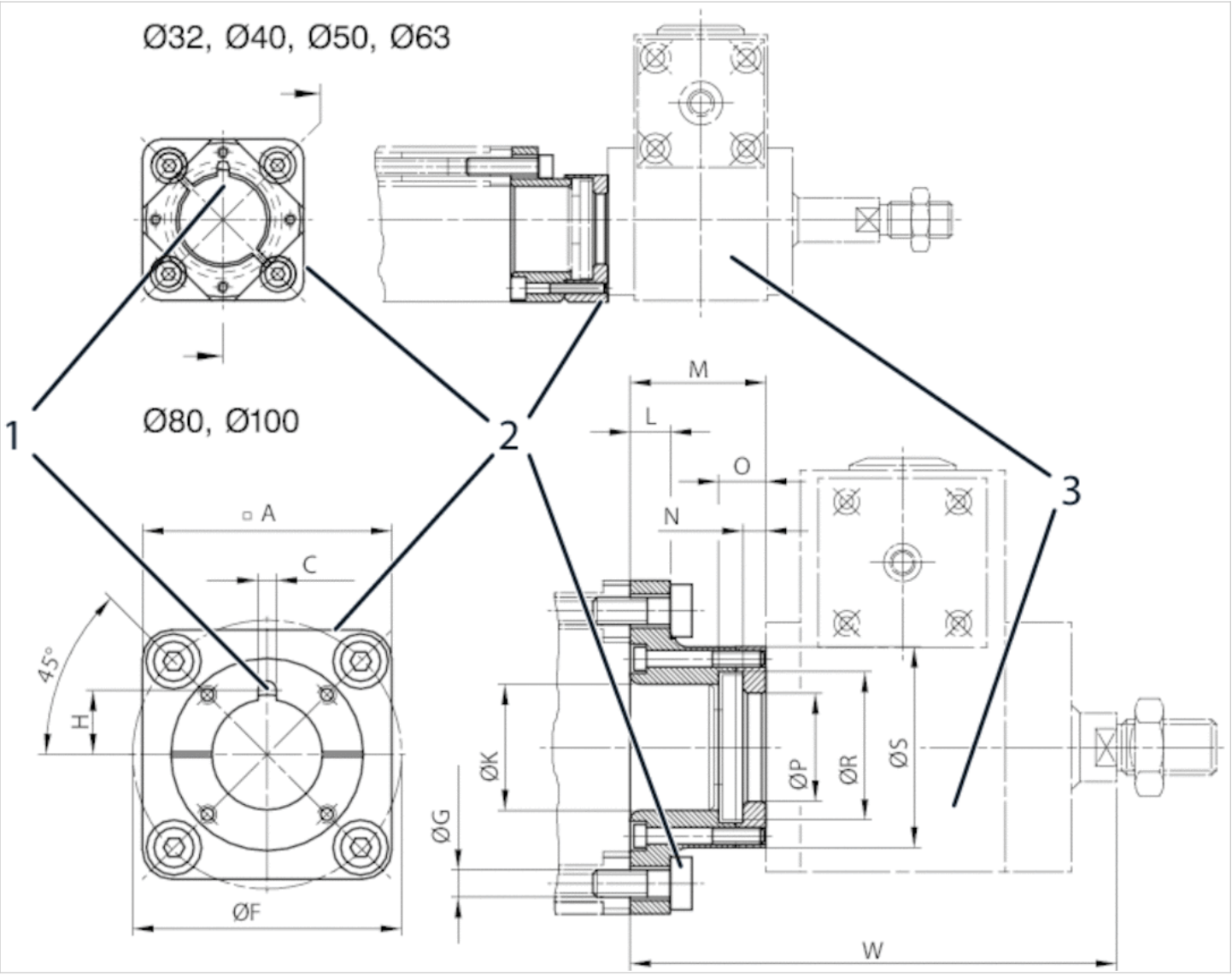
Part No.	For piston Ø	Weight
1827001504	32 mm	0,235 kg
1827001505	40 mm	0,36 kg
1827001506	50 mm	0,635 kg
1827001508	63 mm	0,84 kg
1827001433	80 mm	1,62 kg
1827001434	100 mm	2,27 kg

Technical information

Material	
Housing	Nodular graphite iron, galvanized

Dimensions

Dimensions



Screws included in scope of delivery
The locking unit can be rotated by 4x90°.

Dimensions

A	C +0,1	Ø F ±0,2	G H13	H	Ø K H10	L	M	N -0,1	O 1)	Ø P +0,2	Ø R +0,5	Ø S
50	3.6	46	6.6	13.2	30	7	27.2	3.9	8	24.2	33	46.5
57	3.6	54	6.6	18.2	35	9.5	33.3	4.9	10	30.2	40	55.5
68	3.6	66	8.4	18.2	40	11	38.3	4.9	10	30.2	40	66
75	3.6	80	8.4	18.2	45	11	38.3	4.9	10	30.2	40	71
95	6	102	10.5	24.5	45	15	52	7.9	16	40.2	55	75
115	6	126	10.5	24.6	55	15	57	7.9	16	40.2	55	80

W
105
111

W
137
137
186
191

1) Min.