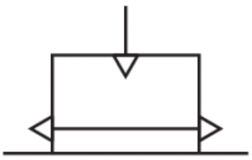
series NCT

AVENTICS™ series NCT

EMERSON.

Non-contact transport system, Series NCT-AL

- F = 2.5-46 N
- Ø 20-100 mm



Version	Bernoulli principle
Working pressure min./max.	1 ... 6 bar
Ambient temperature min./max.	5 ... 60 °C
Medium	Compressed air
Max. particle size	40 µm
Oil content of compressed air	0 mg/m³
Weight	See table below

Technical data

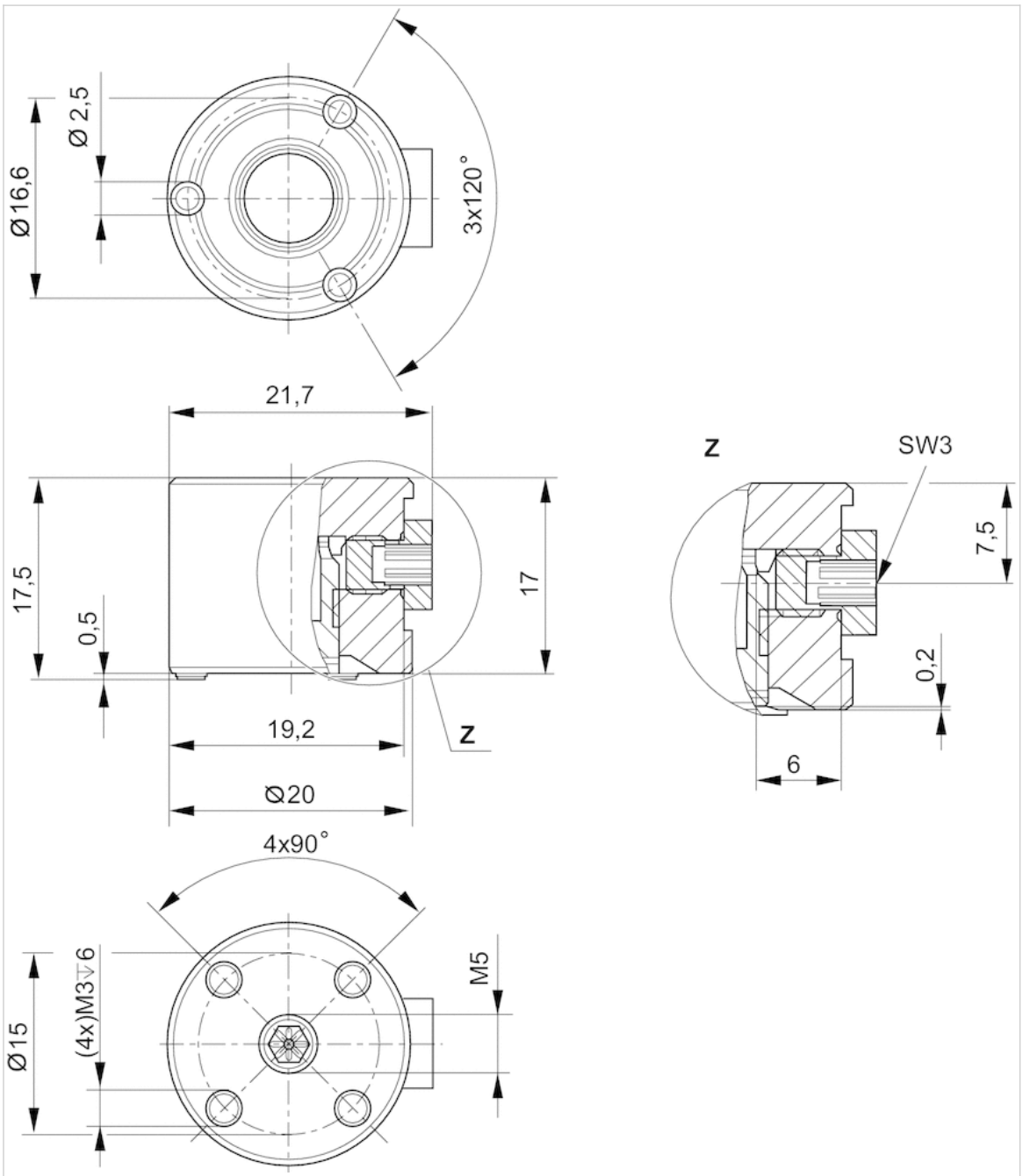
Part No.	Diameter	Lifting force at 5 bar	Air consumption at 5 bar	port pneumatic	Weight
R412010372	20 mm	2.5 N	96 l/min	M5	0.013 kg
R412010373	30 mm	4 N	100 l/min	M5	0.031 kg
R412010374	40 mm	6.5 N	100 l/min	G 1/8	0.052 kg
R412010375	60 mm	13 N	150 l/min	G 1/8	0.12 kg
R412010640	100 mm	46 N	228 l/min	G 1/8	0.3 kg

Technical information

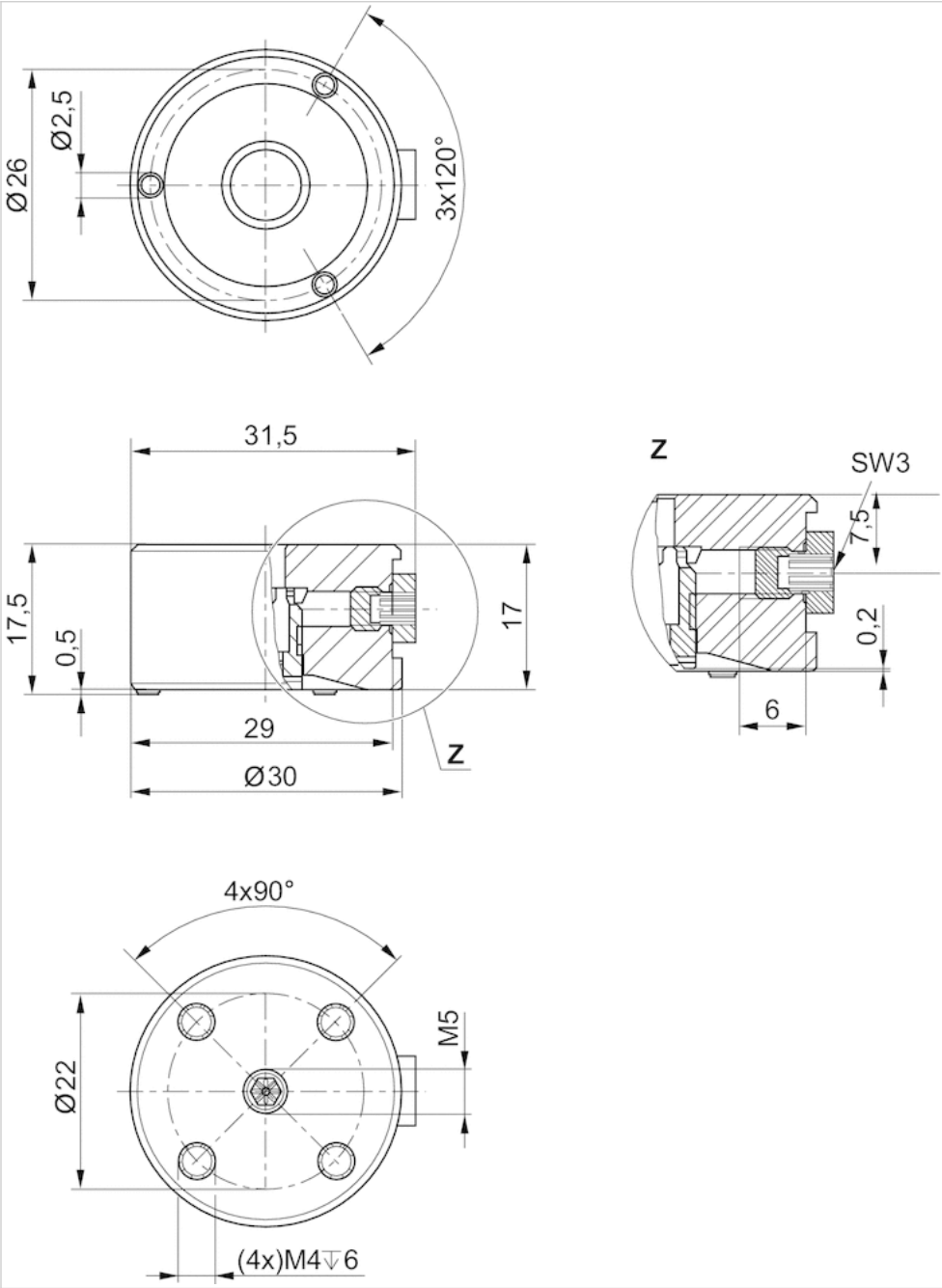
Material	
Housing	Aluminum, anodized
Stop	High-temperature material HT1
Nozzle	Stainless steel
Blanking screw	Brass
Seal	Nitrile butadiene rubber

Dimensions

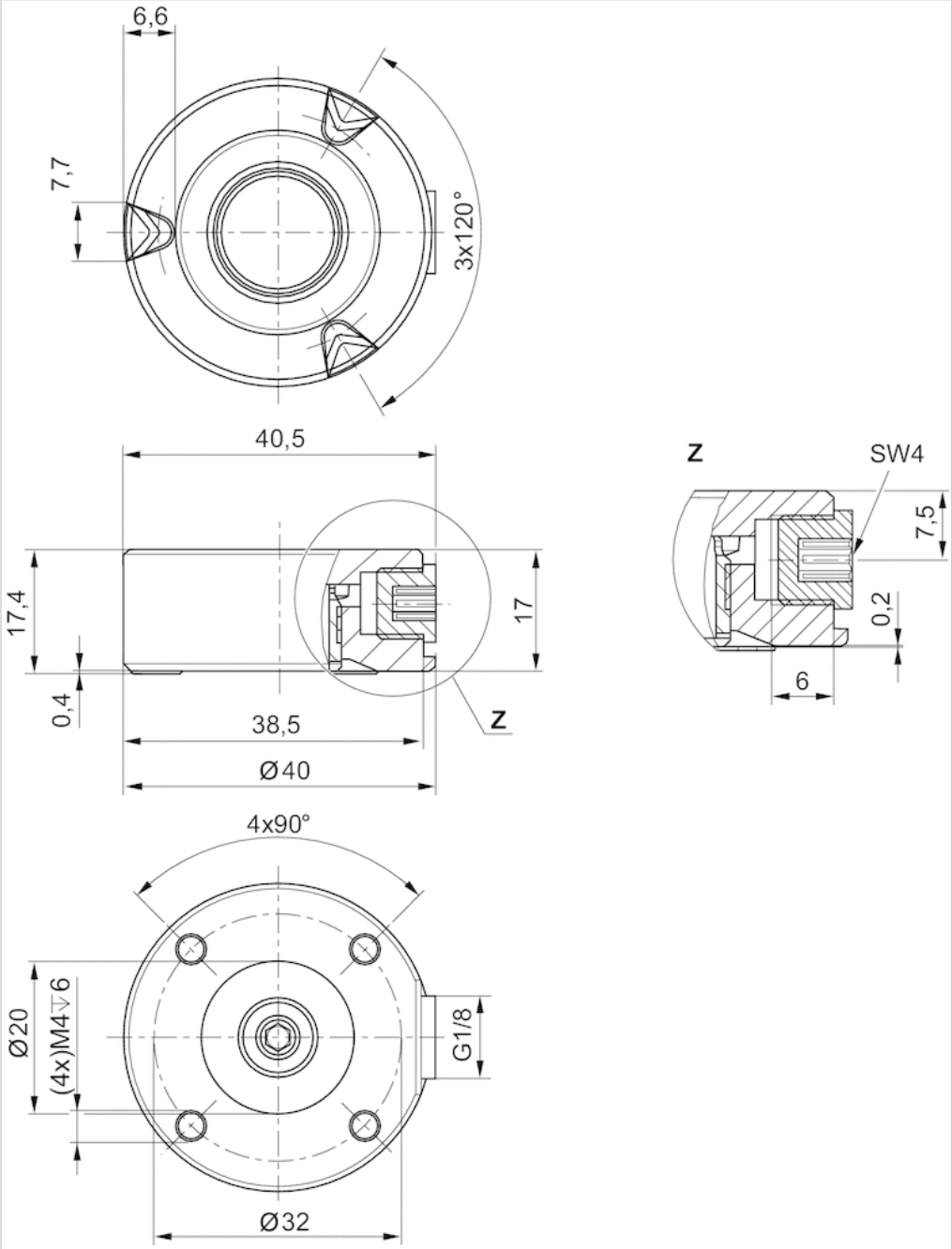
Dimensions, Ø 20



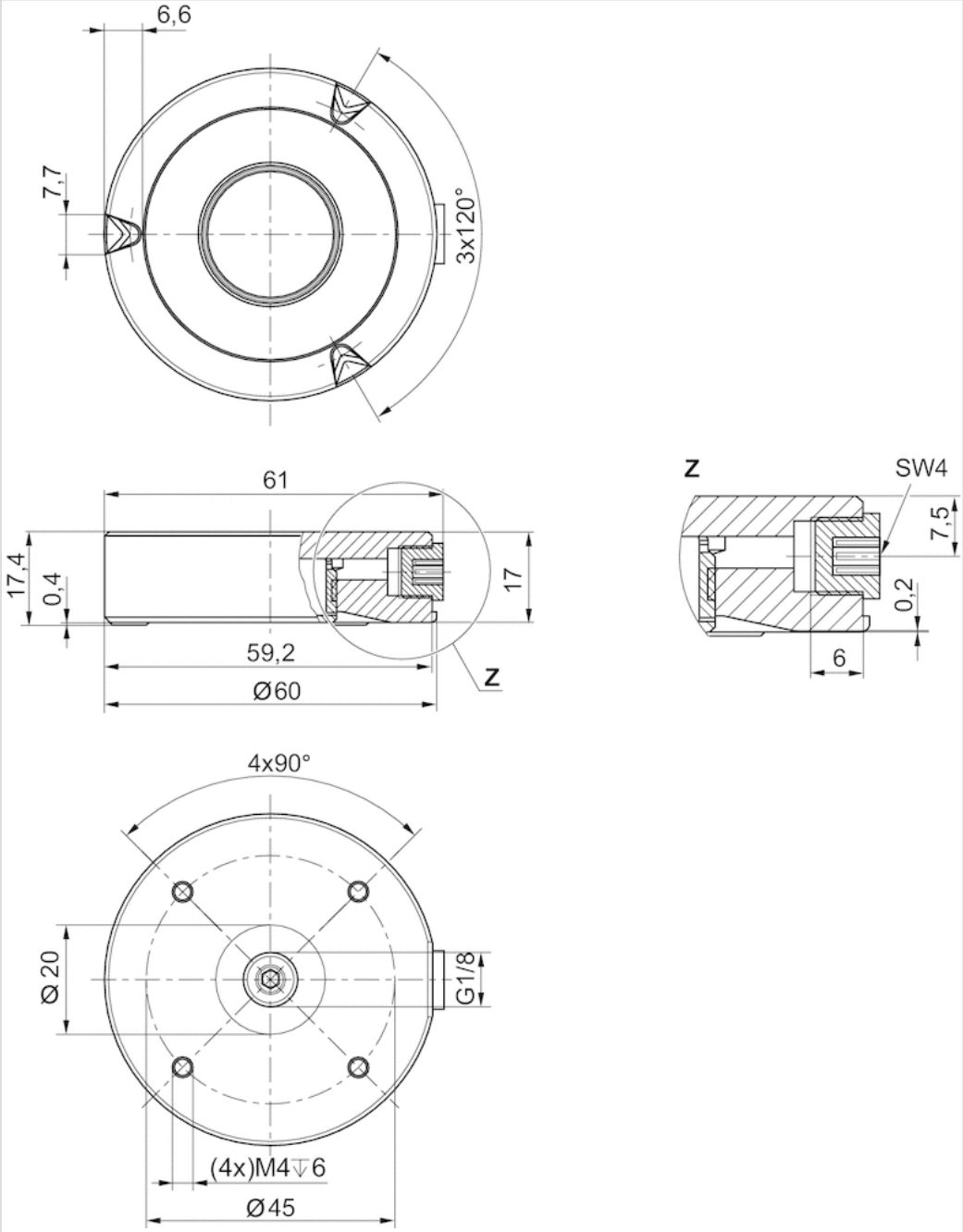
Dimensions, Ø 30



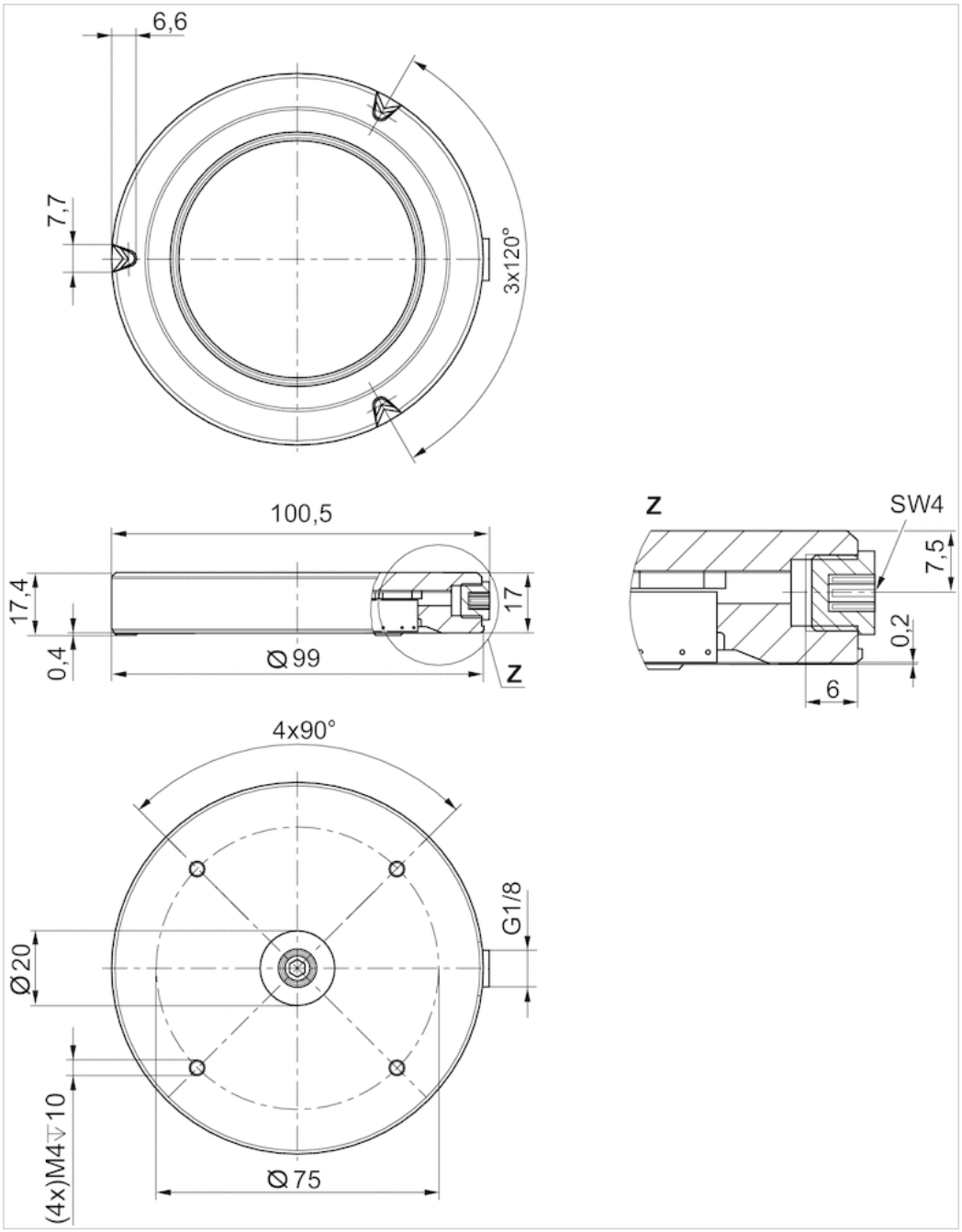
Dimensions, Ø 40



Dimensions, Ø 60

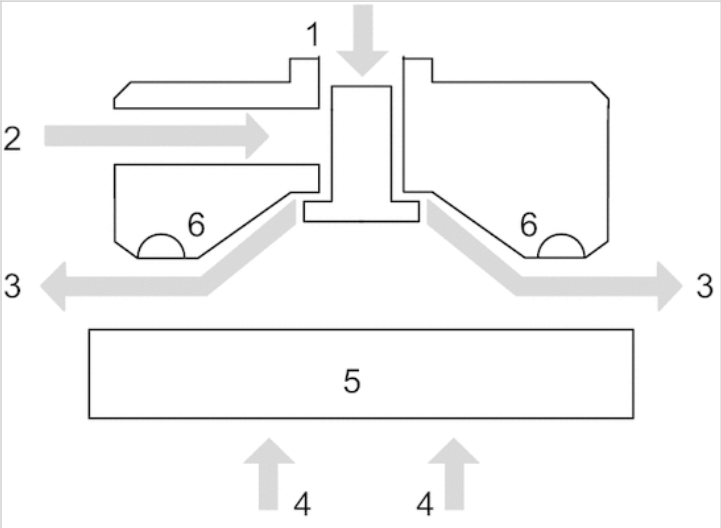


Dimensions, Ø 100

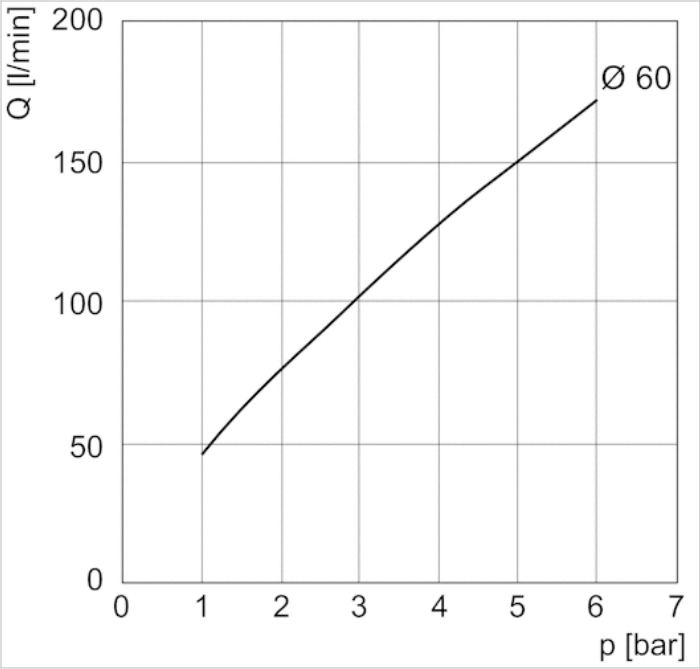


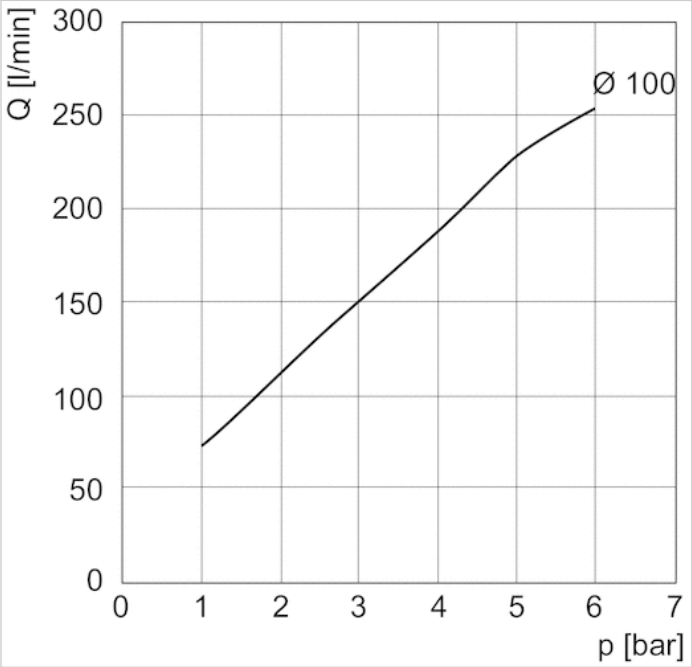
Diagrams

Principle of operation

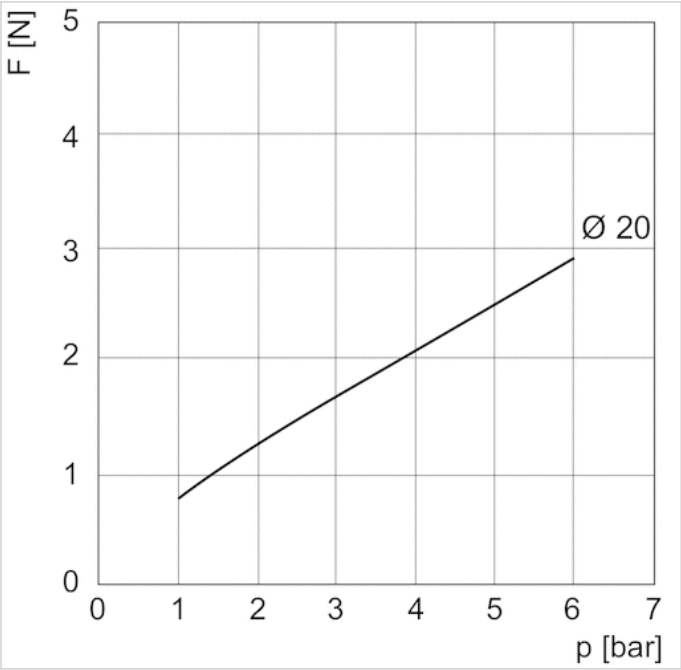


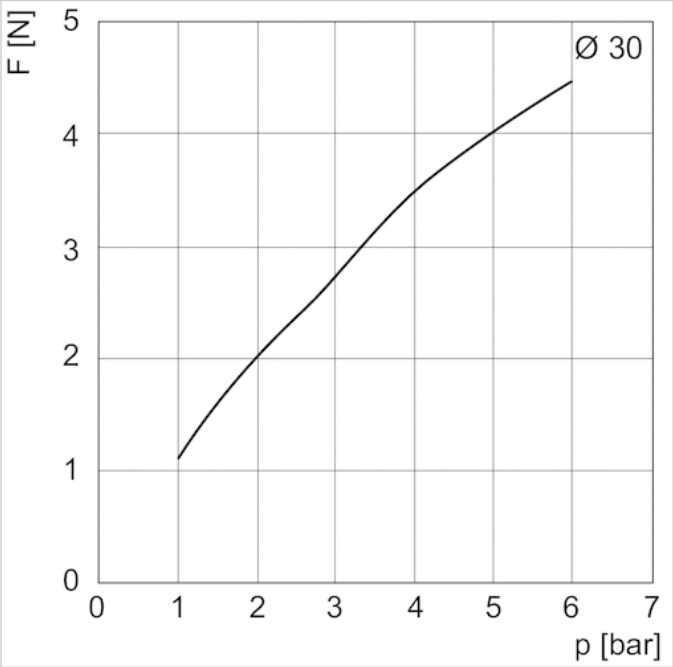
1) Compressed air connection
2) Alternative compressed air connection
3) Air flow
4) Lifting force
5) Object
6) Stop

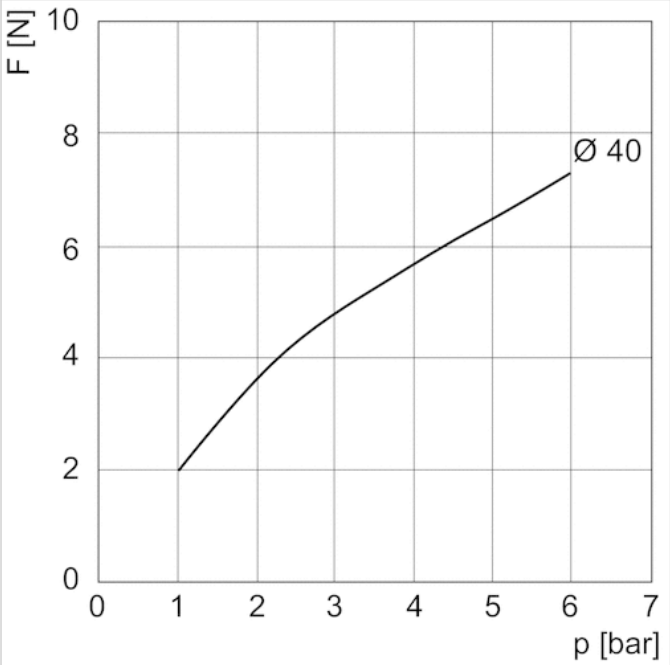


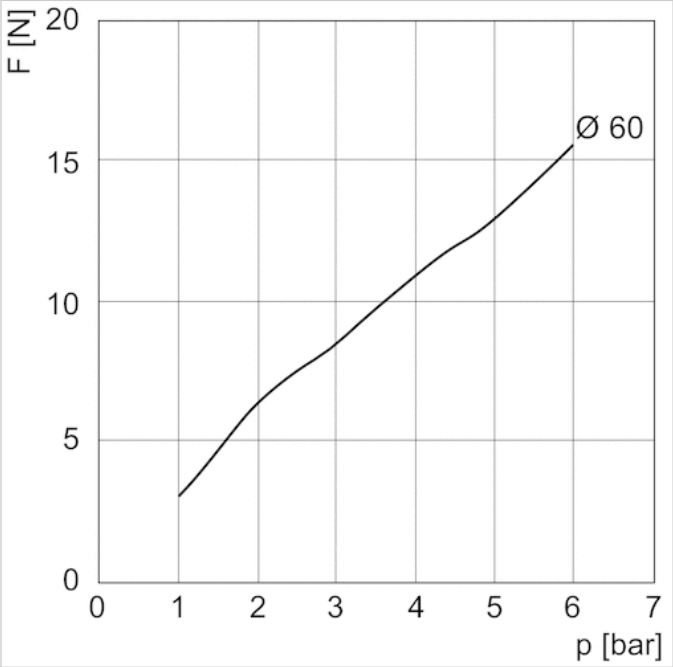


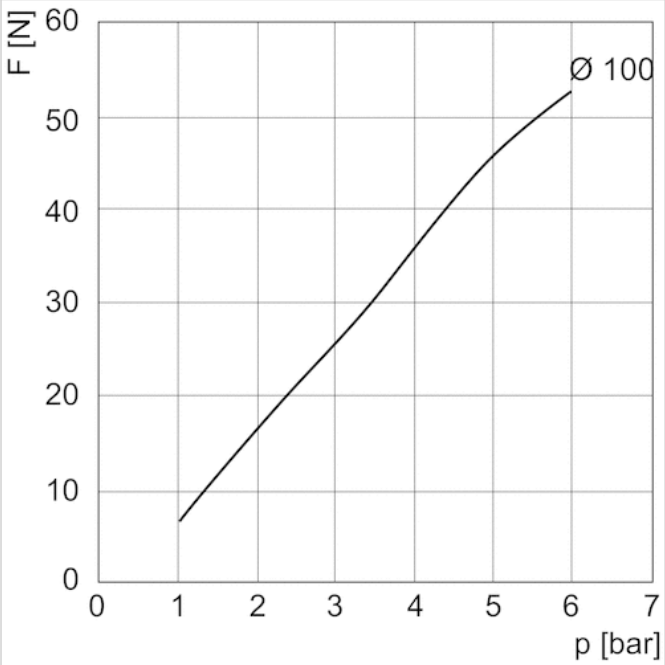
Lifting force F dependent on working pressure p



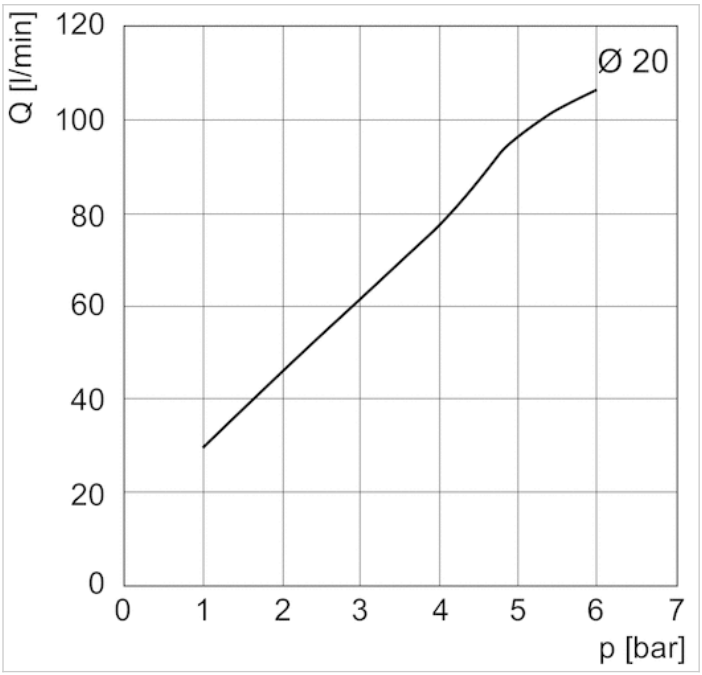

F [N]
5
4
3
2
1
0
0
1
2
3
4
5
6
7
p [bar]
Ø 30

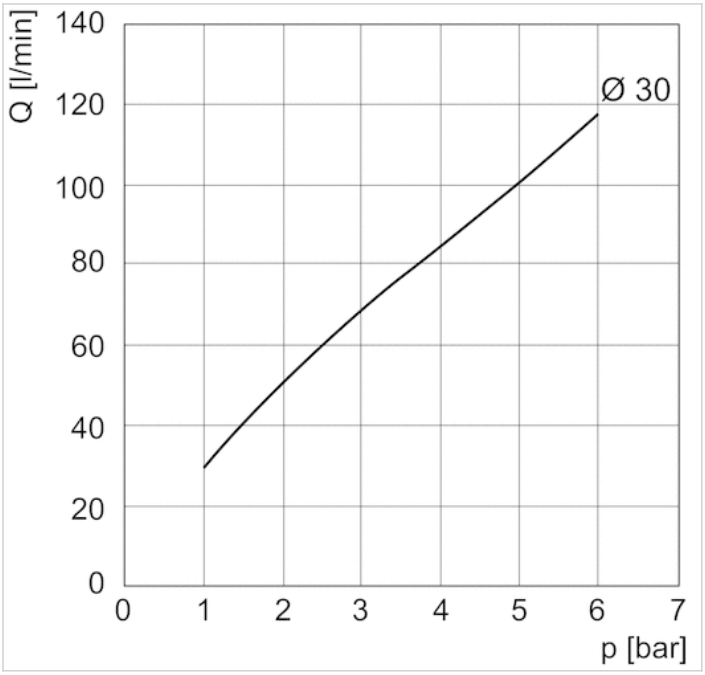

F [N]
10
8
6
4
2
0
0
1
2
3
4
5
6
7
p [bar]
Ø 40

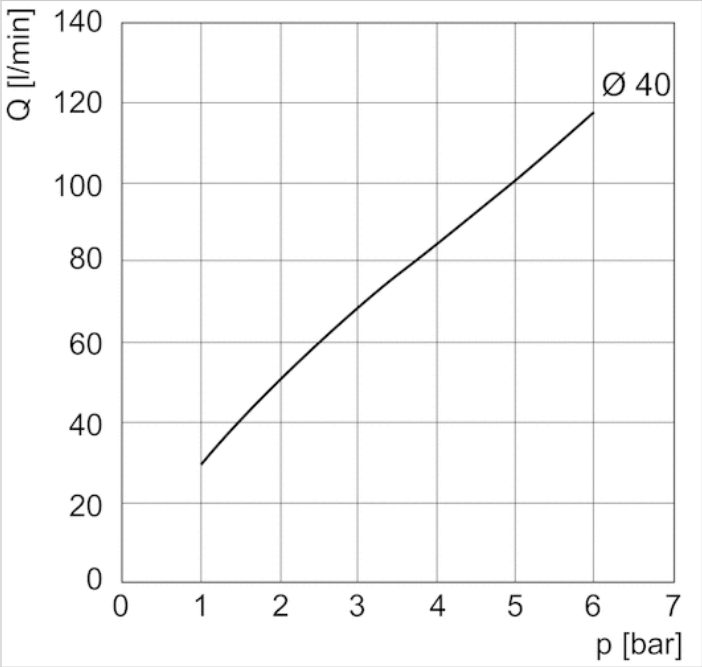

F [N]
20
15
10
5
0
0
1
2
3
4
5
6
7
p [bar]
Ø 60


F [N]
60
50
40
30
20
10
0
0
1
2
3
4
5
6
7
p [bar]
Ø 100

Air consumption Q depending on working pressure p

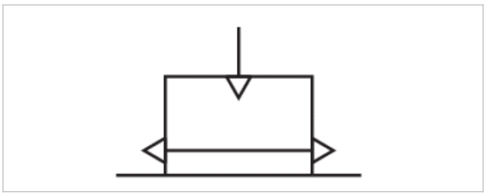





Q [l/min]
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
p [bar]
Ø 40

Non-contact transport system, Series NCT-PK

- F = 2.5-12 N
- Ø 20-60 mm
- suitable for use in food processing



Version	Bernoulli principle
Working pressure min./max.	1 ... 7 bar
Ambient temperature min./max.	5 ... 60 °C
Medium	Compressed air
Max. particle size	40 µm
Oil content of compressed air	0 mg/m³
Weight	See table below

Technical data

Part No.	Diameter	Lifting force at 5 bar	Air consumption at 5 bar	port pneumatic	Weight
R412014866	20 mm	2.5 N	150 l/min	M5	0.01 kg
R412014867	30 mm	3 N	150 l/min	M5	0.02 kg
R412014868	40 mm	5.5 N	150 l/min	M5	0.03 kg
R412014869	60 mm	12 N	220 l/min	M5	0.07 kg

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Notice: This product may only be operated with oil-free, dry compressed air.
Note: The product is FDA-compliant.
Highly resistant against diverse chemicals used in the food industry.
Suitable for all conventional CIP (Cleaning-In-Place) and SIP (Sterilization-In-Place) processes.
Hygienic product design enables quick and easy cleaning.
Product with laser-etched label.

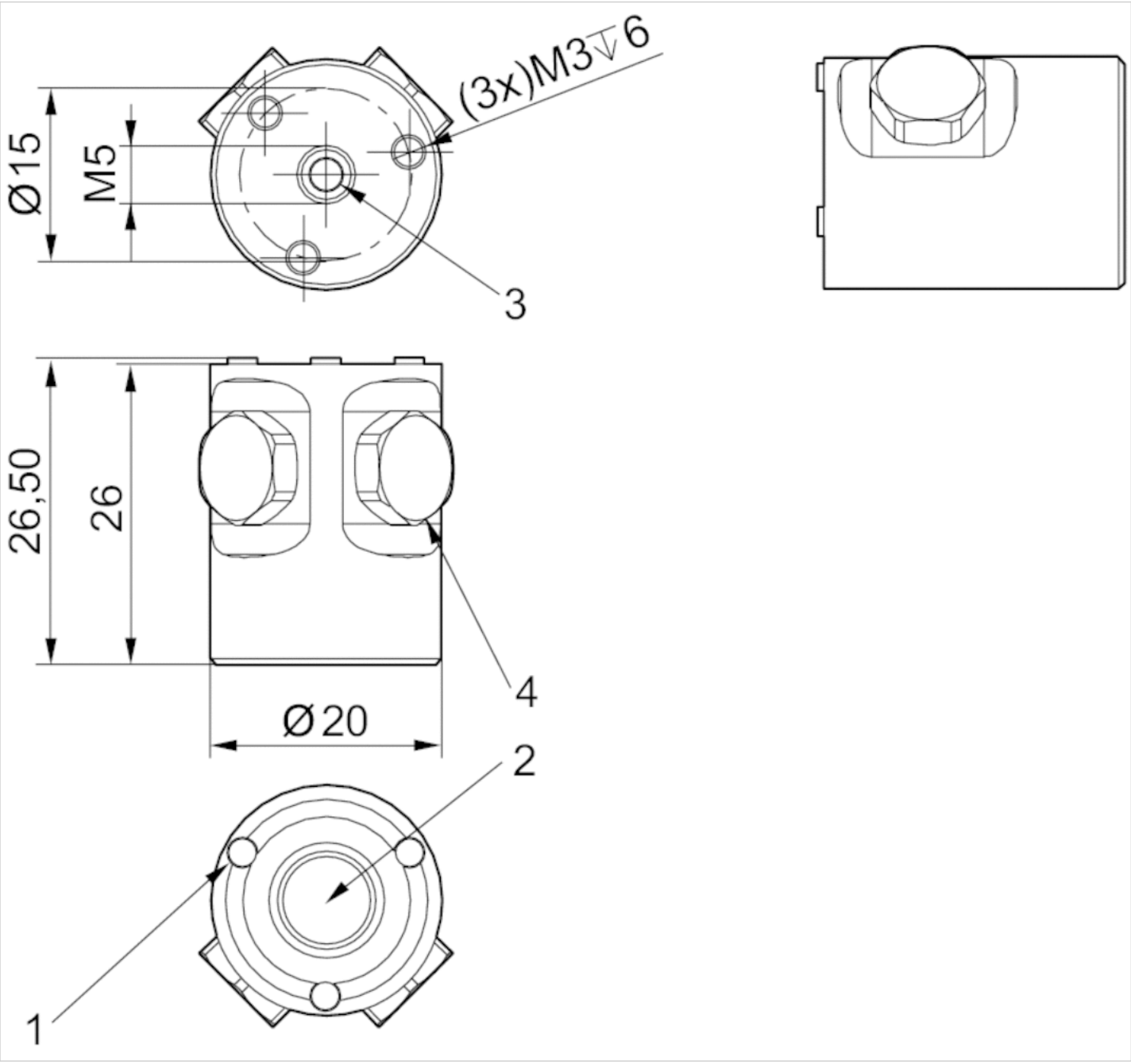
Technical information

Material	
Housing	Polyetheretherketone
Stop	Silicone caoutchouc

Material	
Nozzle	Stainless steel
Blanking screw	Polyetheretherketone
Seal	Fluorocaoutchouc

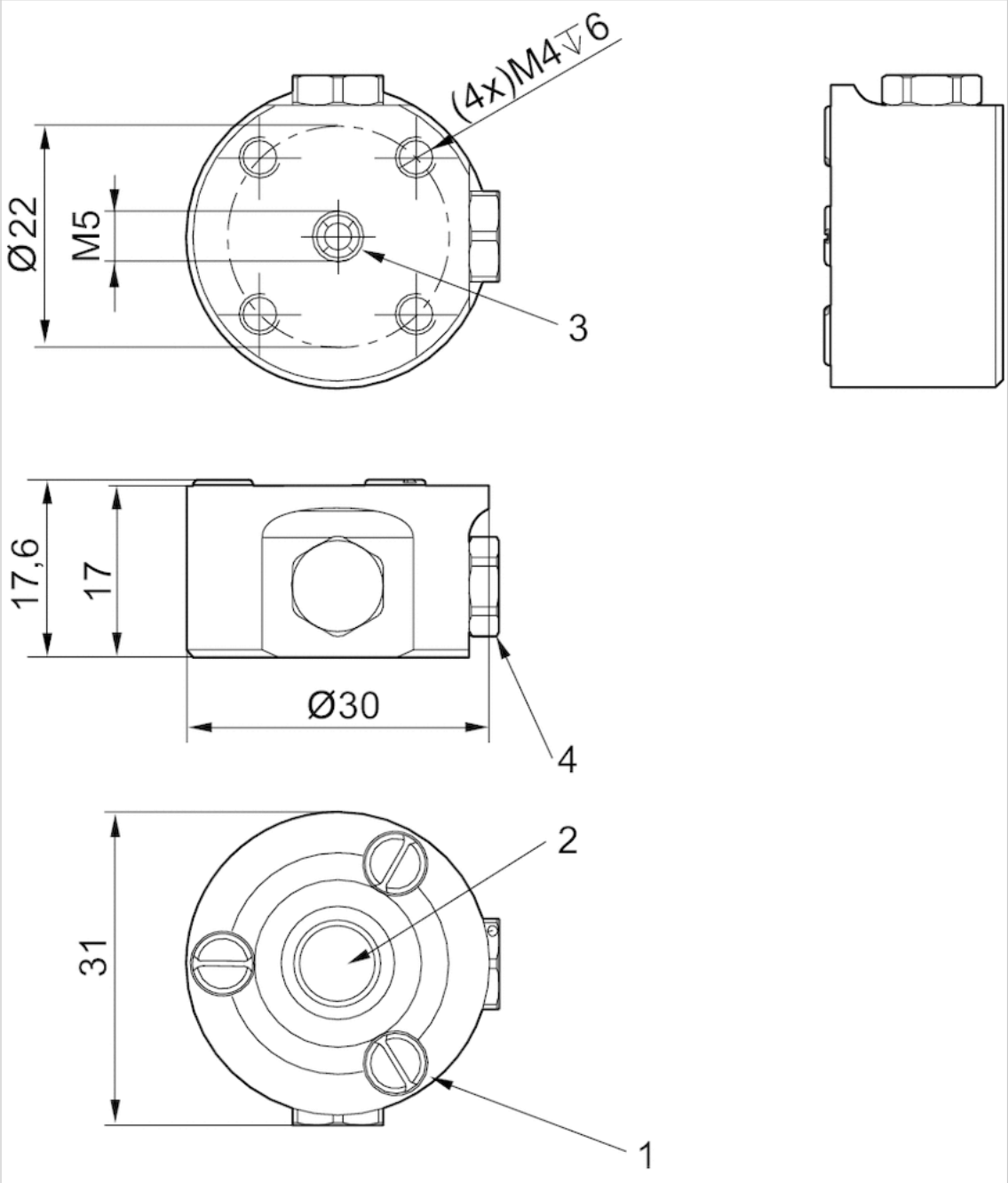
Dimensions

Dimensions, Ø 20



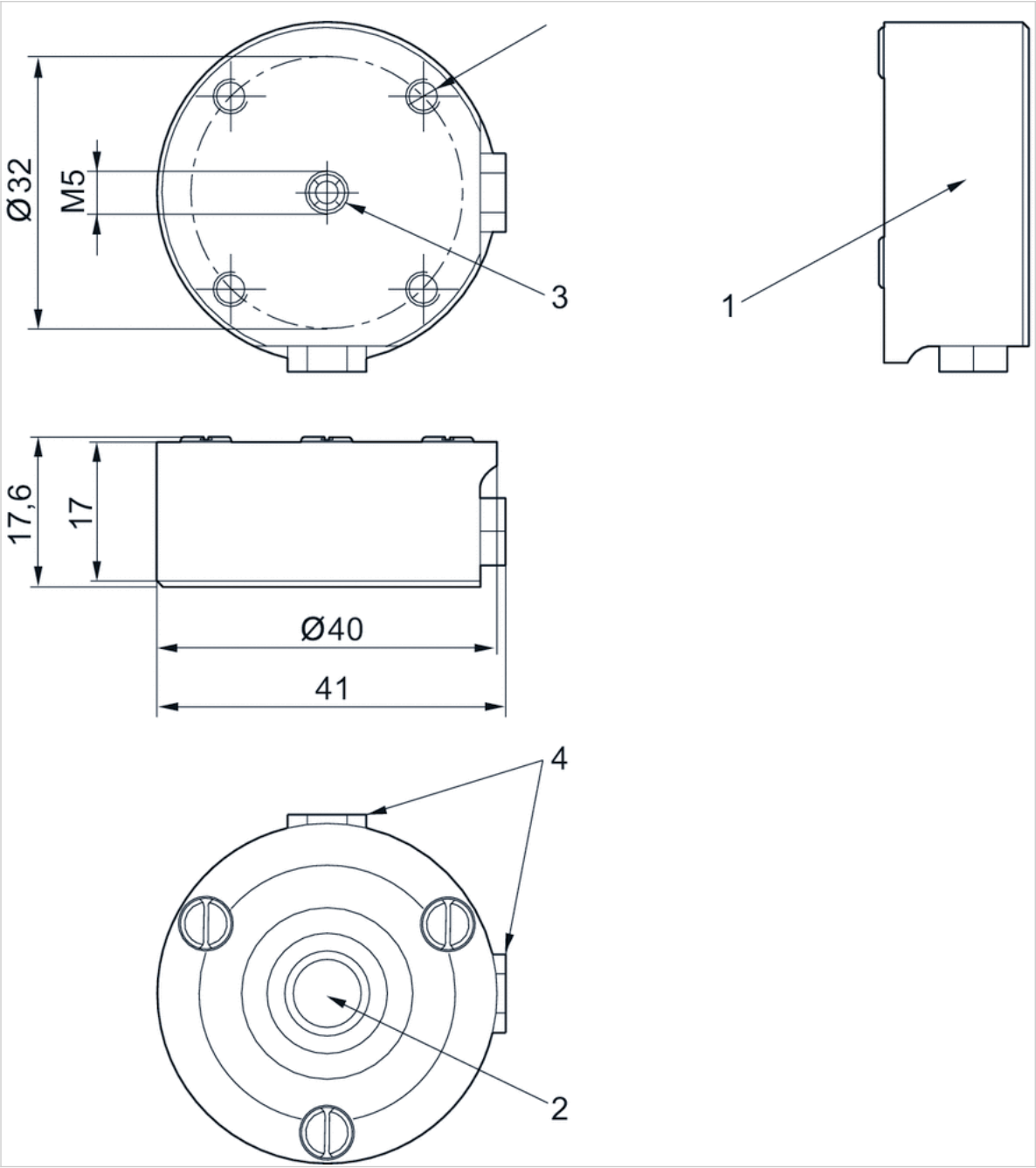
1) Stop
2) Nozzle
3) Compressed air connection
4) Alternative compressed air connection with blanking screw

Dimensions, Ø 30



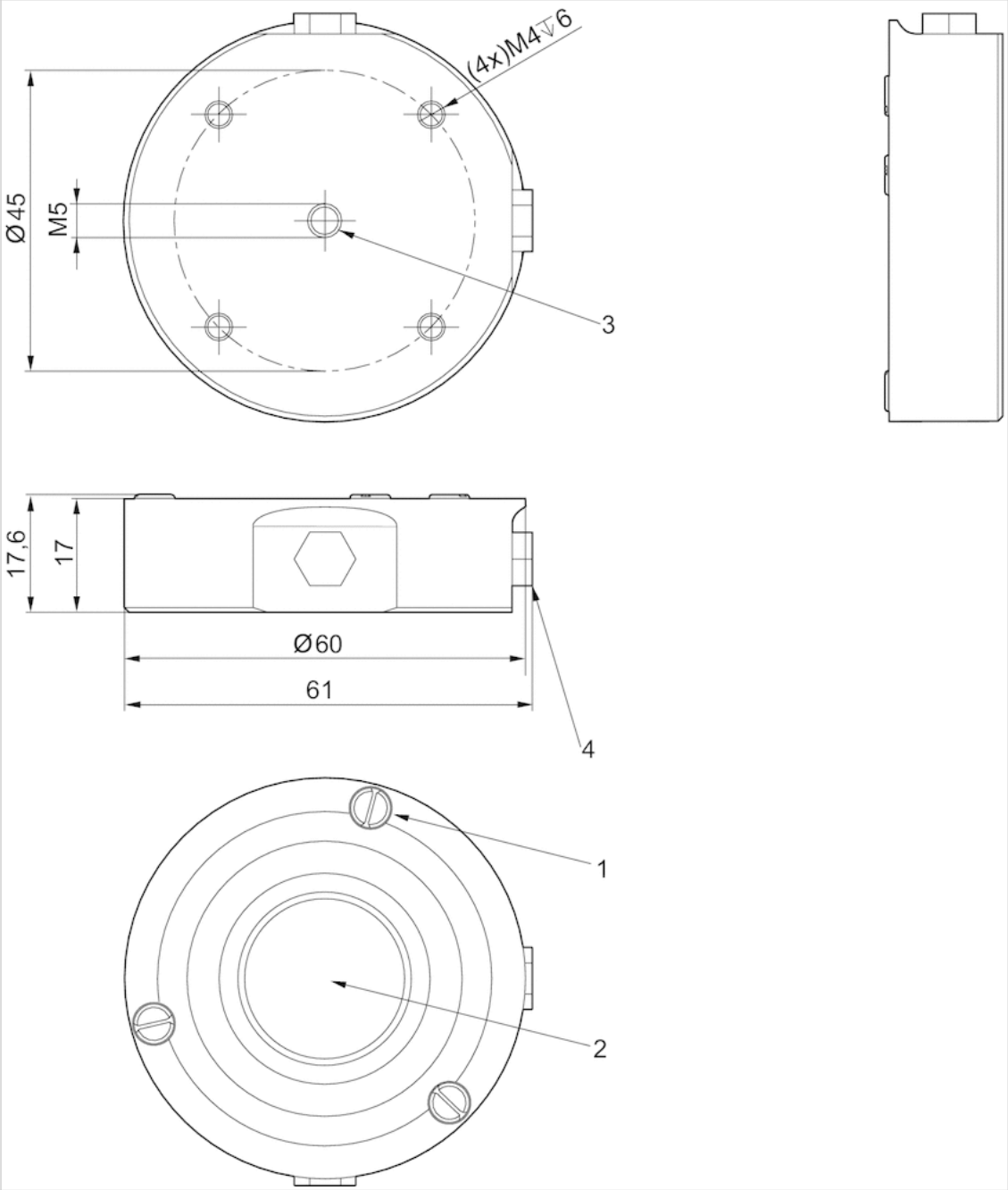
1) Stop
2) Nozzle
3) Compressed air connection
4) Alternative compressed air connection with blanking screw

Dimensions, Ø 40



1) Stop
2) Nozzle
3) Compressed air connection
4) Alternative compressed air connection with blanking screw

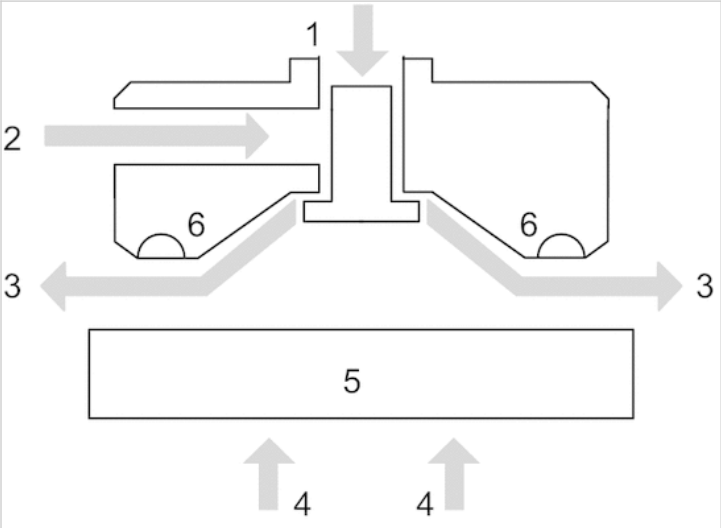
Dimensions, Ø 60



1) Stop
2) Nozzle
3) Compressed air connection
4) Alternative compressed air connection with blanking screw

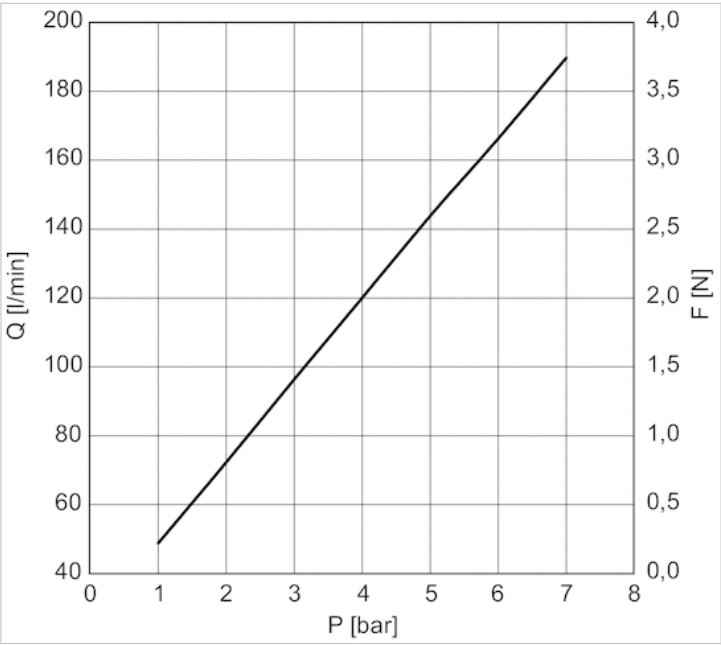
Diagrams

Principle of operation

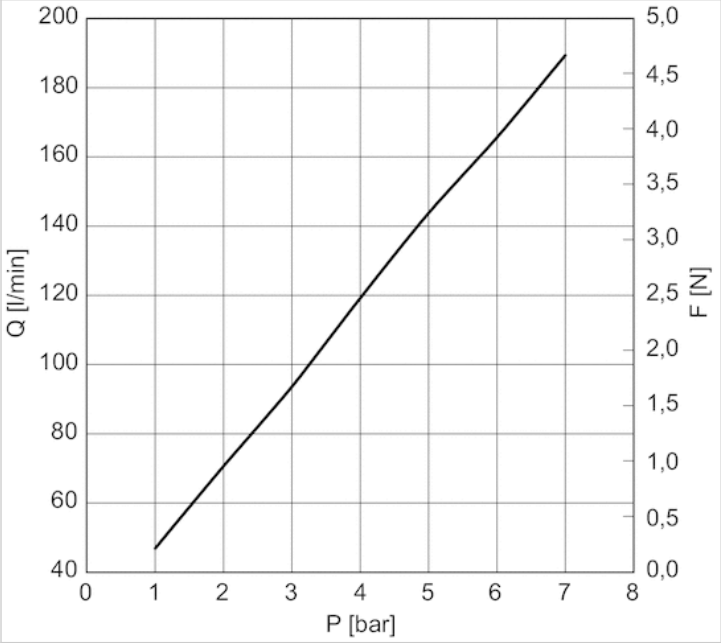


1) Compressed air connection
2) Alternative compressed air connection
3) Air flow
4) Lifting force
5) Object
6) Stop

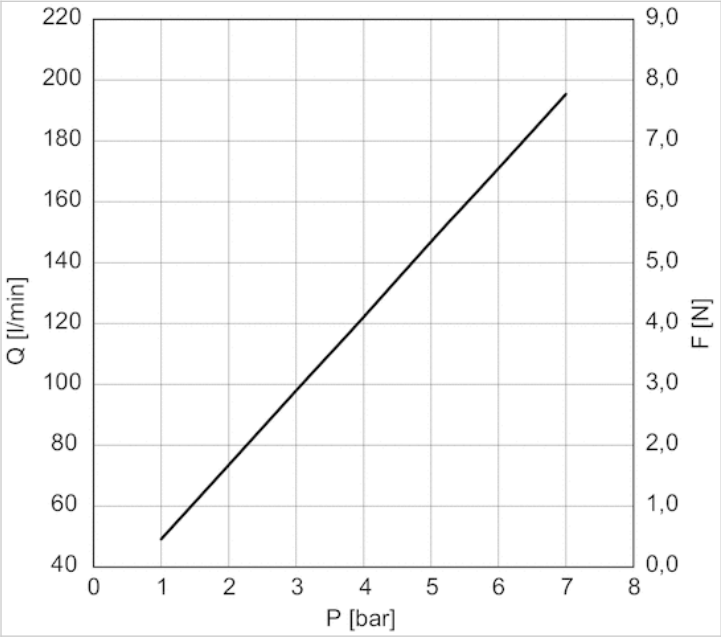
Lifting force F and air consumption Q depending on working pressure p, Ø 20



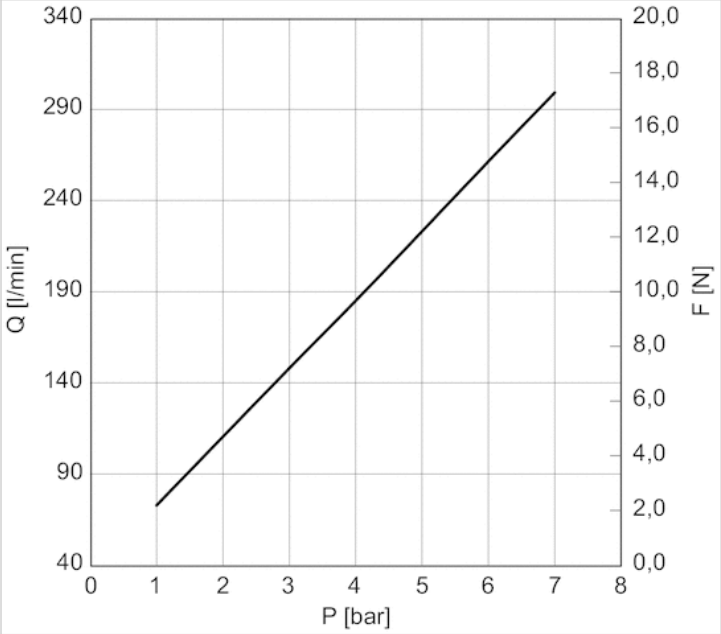
Lifting force F and air consumption Q depending on working pressure p, Ø 30



Lifting force F and air consumption Q depending on working pressure p, Ø 40



Lifting force F and air consumption Q depending on working pressure p, Ø 60



Stops for the NCT-AL series

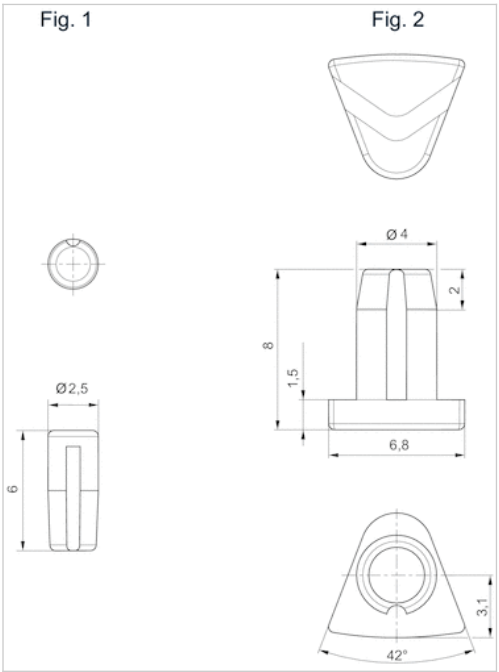
Technical data

Part No.	Type	Scope of delivery	Fig.
R412010376	NCT-AL Ø20/30	10 piece	Fig. 1
R412010377	NCT-AL Ø40/60/100	10 piece	Fig. 2

Technical information

Material	
Housing	High-temperature material HT1

Dimensions



Stops for the NCT-PK series

Technical data

Part No.	Type
R412014872	NCT-PK Ø20
R412014873	NCT-PK Ø30 NCT-PK Ø40 NCT-PK Ø60
R412014876	NCT-PK Ø20
R412014877	NCT-PK Ø30 NCT-PK Ø40 NCT-PK Ø60

Part No.	Material	Scope of delivery	Fig.	
R412014872	Silicone caoutchouc	10 piece	Fig. 1	1)
R412014873	Silicone caoutchouc	10 piece	Fig. 2	1)
R412014876	Hydrogenated acrylonitrile butadiene rubber	10 piece	Fig. 1	-
R412014877	Hydrogenated acrylonitrile butadiene rubber	10 piece	Fig. 2	-

1) Suitable for direct contact with food products (FDA/EC compliant).

Technical information

Material	
Housing	Silicone caoutchouc Hydrogenated acrylonitrile butadiene rubber

Dimensions

Fig. 1

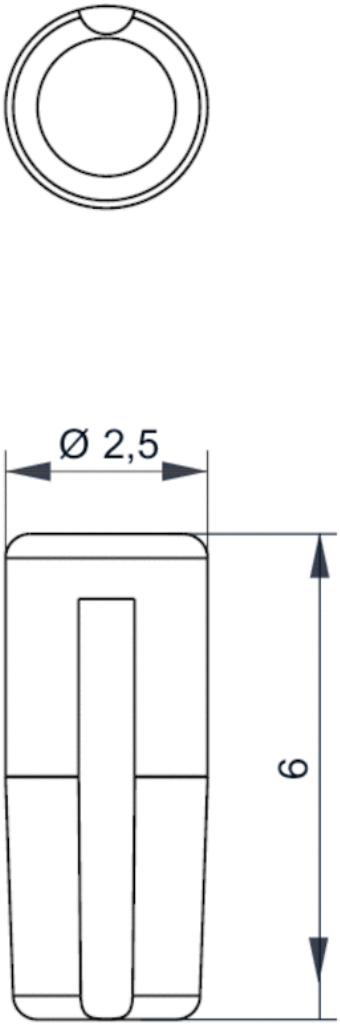
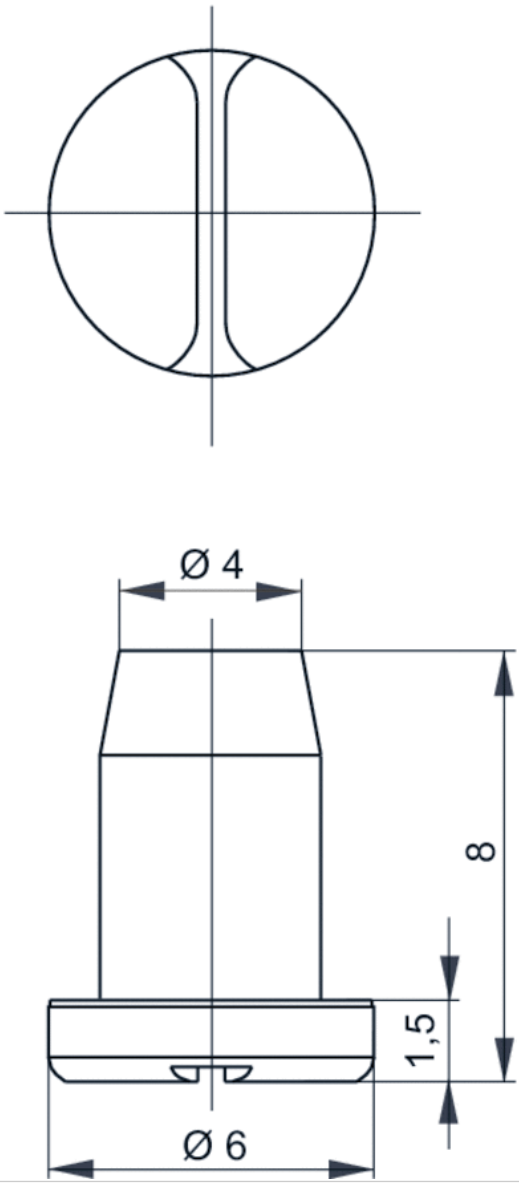
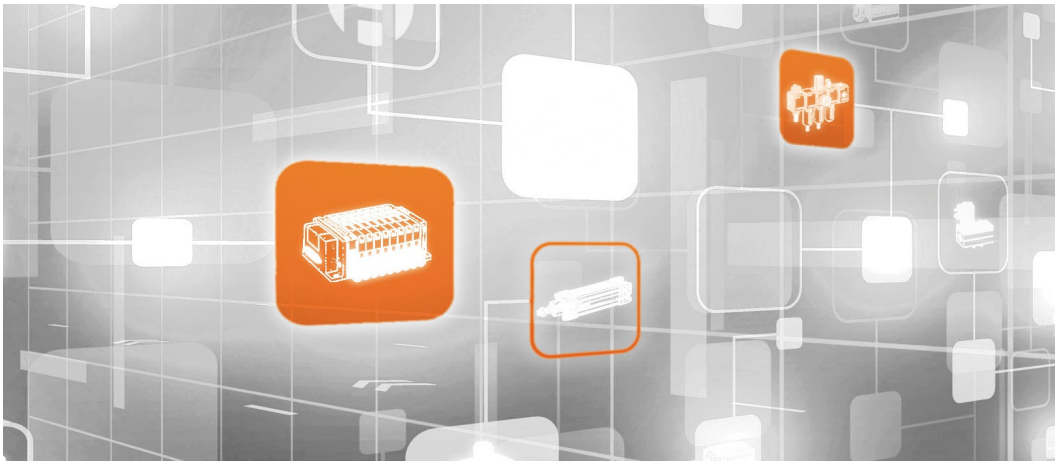


Fig. 2



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: Emerson.com/Aventics

Your local contact: Emerson.com/contactus

Emerson.com

Facebook.com/EmersonAutomationSolutions

LinkedIn.com/company/Emerson-Automation-Solutions

Twitter.com/EMR_Automation

2019-03

EMERSON

CONSIDER IT SOLVED™