Vacuum Technology.



Valve Batteries & Vacuum Cylinder



→ Our company

Founded in 1970 by Ernst-Günter Meßner, our company started by dealing in industrial commodities. Shortly thereafter, we took the step towards our own production of special fittings and pumps used in specialised machinery. The resulting expansion of our business made it necessary for us to establish a new

production and administration building in Kalletal.
In 1976, we produced the first products used in vacuum technology. Within only a few years, we managed to develop a compact product line which set completely new standards in this area.
Our trend-setting products, made according to the current state of the art, and our

second-to-none service and flexibility soon turned Meßner into a household name. We are proud to list well-known machine and plant manufacturers from all over the world among our satisfied customers.

→ The Packaging-Machinery-Programm

Our packaging-machinery programm contains valve batteries in nominal sizes between 6 and 50 mm.

The nominal sizes 6 and 8 mm concern each, a direct-controlled ventilationand sealing valve. They are partially mounted with an additional vacuum gauge connection.

The nominal sizes between 20 and 50 mm are vacuum pilot controlled and are used for vacuum packaging machines with additional laying of gas obstacle of the chamber. Additional hose connections are possible on the pump- and chamber side.

Our vacuum cylinders with 50 to 110 mm piston diameter have also been designed for chamber-packaging machines.

They serve for the sealing of the foil, depending on the contact pressure of the sealing bar, single or in series mounted.

Vacuum cylinders can also be used for other requirements. – talk to us!

Valve Batteries & Vacuum Cylinder

→ Summary.	Valve Batteries	Page 02	
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Type 05.1.01.006.01

→ Technical data.

Type of actuation direct control

Nominal size ventilation valve 6 mm

3/2-way solenoid valve 3 mm

Connection 1 internal thread R 3/8"

Connection 2 hose nozzle 8,5 mm

Connection 3 hose nozzle 4 mm

Connection 4 hose nozzle 6 mm

Function

Ventilation valve normally closed NC

3/2-Way solenoid valve normally closed NC

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

IP 65 with connector **Art.-No. 229/000002**

→ Power input. (per coil)

24 V/DC 6,5 W

24 V/AC and 230 V/AC 8,5 VA

→ Current input. (per coil)

24 V/DC 0,271 A 24 V/AC 0,354 A

230 V/AC 0,039 A



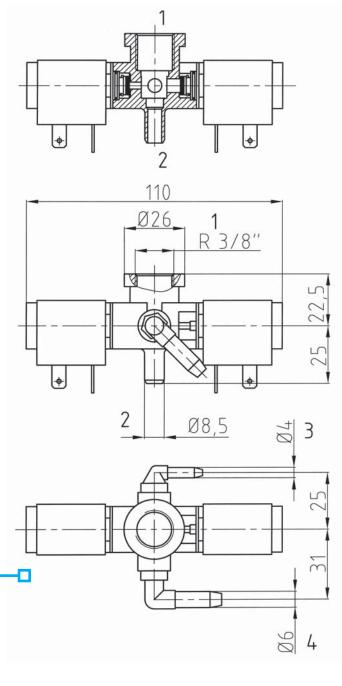
24 Volts/DC **Art.-No. 280/006011**24 Volts/AC **Art.-No. 280/006012**

230 Volts/AC Art.-No. 280/006015

Other voltages available on inquiry.

→ Specials/Features.

Direct mounting at the backside of the chamber.
With vacuum gauge- and cylinder connections.



Valve Battery

Type 05.1.01.006.03



Type of actuation direct control

Nominal size ventilation valve 6 mm

3/2-way solenoid valve 2 mm

Connection 1 internal thread R 3/8"

Connection 2 internal thread R 1/8"

Connection 3 internal thread R 1/4"

Connection 4+5 hose nozzle 6,4 mm

Function

Ventilation valve normally closed NC

3/2-Way solenoid valve normally opened NO

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

IP 65 with connector **Art.-No. 229/000002**

→ Power input. (per coil)

24 V/DC 6,5 W

24 V/AC and 230 V/AC 8,5 VA

→ Current input. (per coil)

24 V/DC 0,271 A

24 V/AC 0,354 A

230 V/AC 0,039 A

→ Standard voltages.

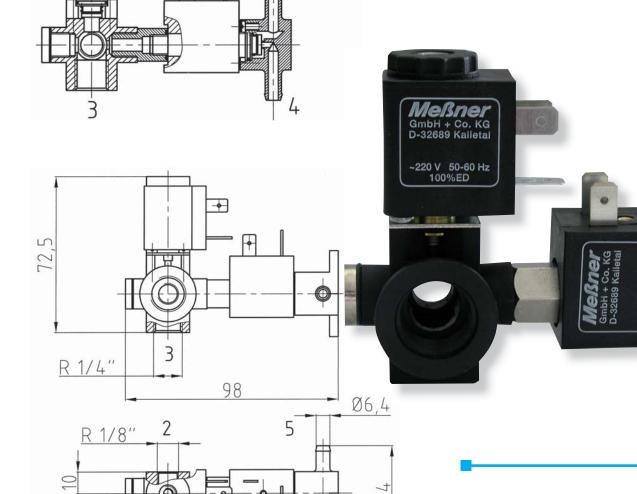
24 Volts/DC Art.-No. 280/006031

24 Volts/AC **Art.-No. 280/006032**

230 Volts/AC Art.-No. 280/006035

Other voltages available on inquiry.

Valve Battery



Ø6,4

R 3/8'

Ø26

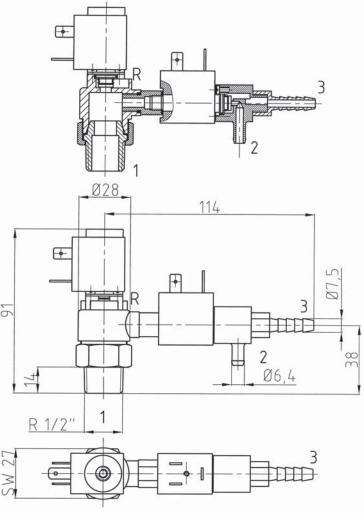
90° turned through

Direct mounting at the backside of the chamber.
With vacuum gauge- and cylinder connections.

Type 05.1.02.006.01

→ Technical data.

Type of actuation direct control Nominal size ventilation valve 6 mm 3/2-way solenoid valve 2 mm Connection 1 external thread R 1/2" Connection 2 hose nozzle 6,4 mm Connection 3 hose nozzle 7,5 mm Function normally closed NC Ventilation valve 3/2-Way solenoid valve normally opened NO Operation pressure vacuum max. 99,9 % Meßner GmbH + Co. KG D-32689 Kalletal Ambient temperature max. 80° C Duty cycle ED 100 % -24 V 50-60 Hz Enclosure protection in 91 IP 00 compliance with DIN 40050 IP 65 with connector Art.-No. 229/000002 → Power input. (per coil) 24 V/DC 6,5 W 24 V/AC and 230 V/AC 8,5VA → Current input. (per coil) 0,271 A 24 V/DC 24 V/AC 0,354 A 230 V/AC 0,039 A → Standard voltages.



24 Volts/DC Art.-No. 281/006011 24 Volts/AC Art.-No. 281/006012 230 Volts/AC Art.-No. 281/006015

Other voltages available on inquiry.

Valve Battery

Type 05.1.02.006.03

→ Technical data.



Type of actuation direct control

Nominal size ventilation valve 6 mm

3/2-way solenoid valve 3,5 mm

Connection 1 external thread R 1/2"

Connection 2 hose nozzle 7 mm

Function

Ventilation valve normally closed NC

3/2-Way solenoid valve normally closed NC

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

IP 65 with connector **Art.-No. 229/000002**

→ Power input. (per coil)

24 V/DC 6,5 W

24 V/AC and 230 V/AC 8,5VA

→ Current input. (per coil)

24 V/DC 0,271 A

24 V/AC 0,354 A

230 V/AC 0,039 A

→ Standard voltages.

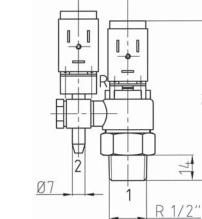
24 Volts/DC Art.-No. 281/006031

24 Volts/AC **Art.-No. 281/006032**

230 Volts/AC **Art.-No. 281/006035**

Other voltages available on inquiry.

Valve Battery



Type 05.1.00.008.01

→ Technical data.

Type of actuation direct control

Nominal size ventilation valve 8 mm

3/2-way solenoid valve 2 mm

Pump connection P hose nozzle 20 mm
Pump connection P1 hose nozzle 8 mm

Working connection A1 flange Ø 25 mm

Working connection A2 hose nozzle 7 mm

Function

Ventilation valve normally closed NC

3/2-Way solenoid valve normally opened NO

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

IP 65 with connector **Art.-No. 229/000002**

Art.-No. 229/000003

→ Power input.

	Coll 1	Coll 2
24 V/DC	10 W	6,5 W
24 V/AC and 230 V/AC	13 VA	8,5 VA

→ Current input.

	Coil 1	Coil 2
24 V/DC	0,417 A	0,271 A
24 V/AC	0,542 A	0,354 A
230 V/AC	0,059 A	0,039 A

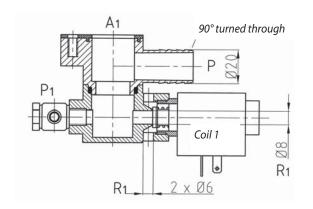


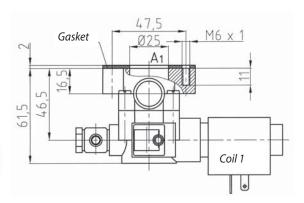
ArtNo. 282/008011	24 Volts/DC
ArtNo. 282/008012	24 Volts/AC
ArtNo. 282/008015	230 Volts/AC

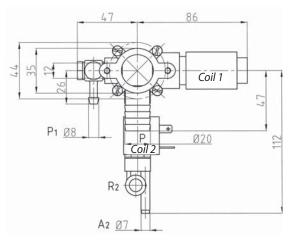
Other voltages available on inquiry.

→ Specials/Features.

Direct mounting at the backside of the chamber.
With vacuum gauge- and cylinder connections.









Type 05.1.00.008.02

→ Technical data.

Type of actuation direct control

> Nominal size ventilation valve 8 mm

> > 3/2-way solenoid valve 3,5 mm

Pump connection P hose nozzle 20 mm Pump connection P1 hose nozzle 8 mm

Working connection A1 flange Ø 25 mm

Working connection A2 hose nozzle 7 mm

Function

normally closed NC Ventilation valve

3/2-Way solenoid valve normally closed NC

Ambient temperature max. 80° C

> Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

Operation pressure

IP 65 with connector Art.-No. 229/000002

Art.-No. 229/000003

vacuum max. 99,9 %



16, 94 61,5 Coil 2 Coil 1 Coil 1

Coil 2

P

Ø20

A₁

Gasket

5

A2 🗟

P1 Ø8

90° turned through

8

R₁

Coil 1

•

M6 x 1

→ Specials/Features.

Direct mounting at the backside of the chamber. With vacuum gauge- and cylinder connections.

Standard voltages.

24 Volts/DC Art.-No. 282/008021 Art.-No. 282/008022 24 Volts/AC 230 Volts/AC Art.-No. 282/008025

Other voltages available on inquiry.

Coil 2 → Power input. Coil 1 24 V/DC 10 W 6,5 W 24 V/AC and 230 V/AC 13 VA 8,5 VA

Current input. Coil 1 Coil 2

24 V/DC

	· ·	•
24 V/AC	0,542 A	0,354 A
230 V/AC	0,059 A	0,039 A

0,417 A

Valve Battery

0,271 A

Type 05.1.02.008.01

→ Technical data.

Type of actuation direct control

> Nominal size ventilation valve 8 mm

> > 3/2-way solenoid valve 3,5 mm

Pump connection P hose nozzle 20 mm Pump connection P1 hose nozzle 8 mm Working connection A1 flange Ø 25 mm hose nozzle 7 mm

Function

normally closed NC Ventilation valve normally closed NC* 3/2-Way solenoid valve

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

> Duty cycle ED 100 %

Enclosure protection in

Working connection A2

IP 00 compliance with DIN 40050

> IP 65 with connector Art.-No. 229/000002

> > Coil 1

Art.-No. 229/000003

Coil 2

→ Power input.

24 V/DC	10 W	6,5 W
24 V/AC and 230 V/AC	13 VA	8,5 VA
→ Current input.	Coil 1	Coil 2
24 V/DC	0,417 A	0,271 A
24 V/AC	0,542 A	0,354 A
230 V/AC	0,059 A	0,039 A



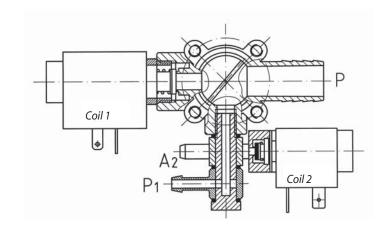


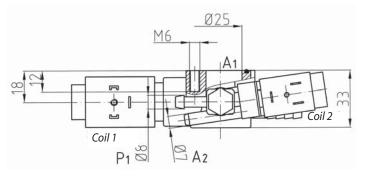
24 Volts/DC Art.-No. 281/008011 Art.-No. 281/008012 24 Volts/AC 230 Volts/AC Art.-No. 281/008015

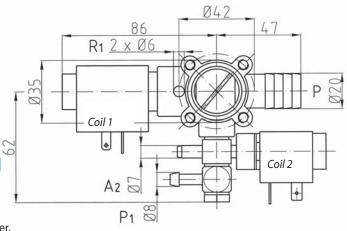
Other voltages available on inquiry.

→ Specials/Features.

Direct mounting at the backside of the chamber. With vacuum gauge- and cylinder connections.







^{*}also available as NO

Type 05.2.02.025.01

vacuum pilot control

hose nozzle 27 mm

internal thread R 1"

internal thread R 1/2" internal thread R 1/4"

normally closed NC

vacuum max. 99,9 %

Art.-No. 229/000002

max. 80° C

100 %

IP 00

6,5 W

8,5 VA

0,271 A

0,354 A

0,039 A

25 mm

→ Technical data.

Type of actuation

Pump connection P

Nominal size

Connection 1

Duty cycle ED

Operation pressure

Ambient temperature

Enclosure protection in

IP 65 with connector

24 V/AC and 230 V/AC

Function

24 V/DC

24 V/DC

24 V/AC

230 V/AC



90° turned through

90° turned through

47

65

Ø60

→ Standard voltages.

24 Volts/DC Art.-No. 284/025011 24 Volts/AC Art.-No. 284/025012 Art.-No. 284/025015 230 Volts/AC

Other voltages available on inquiry.

Valve Battery/3

Type 05.2.01.032.17

→ Technical data.

Type of actuation vacuum pilot control

Nominal size 3/2-way solenoid valve 32 mm

ventilation valve 20 mm

Pump connection P internal thread R 1 1/4"

Working connection A internal thread R 1 1/4"

Ventilation connection R internal thread R 1/2"

Function normally closed NC

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

IP 65 with connector **Art.-No. 229/000002**

→ Power input. (per coil)

24 V/DC 6,5 W

24 V/AC and 230 V/AC 8,5 VA

→ Current input. (per coil)

24 V/DC 0,271 A

24 V/AC 0,354 A

230 V/AC 0,039 A



→ Standard voltages.

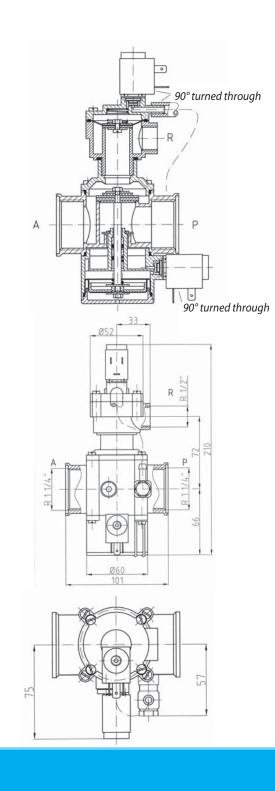
24 Volts/DC **Art.-No. 283/032171**

24 Volts/AC **Art.-No. 283/032172**

230 Volts/AC Art.-No. 283/032175

Other voltages available on inquiry.

Valve Battery/3



Type 05.2.01.050.04

→ Technical data.

Type of actuation vacuum pilot control

Nominal size 3/2-way solenoid valve 50 mm

ventilation valve 32 mm

Pump connection P internal thread R 2"

Working connection A internal thread R 2"

Function normally closed NC

Operation pressure vacuum max. 99,9 %

Ambient temperature max. 80° C

Duty cycle ED 100 %

Enclosure protection in

compliance with DIN 40050 IP 00

IP 65 with connector **Art.-No. 229/000002**

→ Power input. (per coil)

24 V/DC 6,5 W

24 V/AC and 230 V/AC 8,5 VA

Current input. (per coil)

24 V/DC 0,271 A

24 V/AC 0,354 A

230 V/AC 0,039 A

→ Standard voltages.

24 Volts/DC Art.-No. 283/050041

24 Volts/AC Art.-No. 283/050042

230 Volts/AC Art.-No. 283/050045

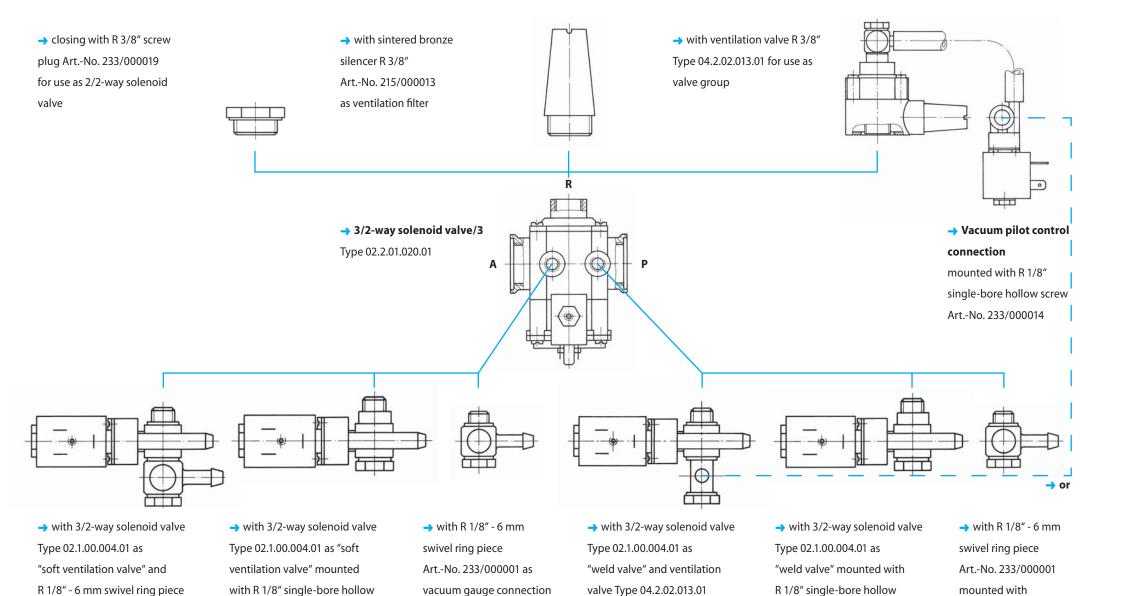
Other voltages available on inquiry.





90° turned through

Valve Battery/3



mounted with R 1/8"

Art.-No. 233/000003

double-bore hollow screw

screw Art.-No. 233/000014

R 1/8" single-bore hollow

screw Art.-No. 233/000014

vacuum gauge connection

single-bore hollow screw

mounted with R 1/8"

Art.-No. 233/000014

Possible combinations & accessories

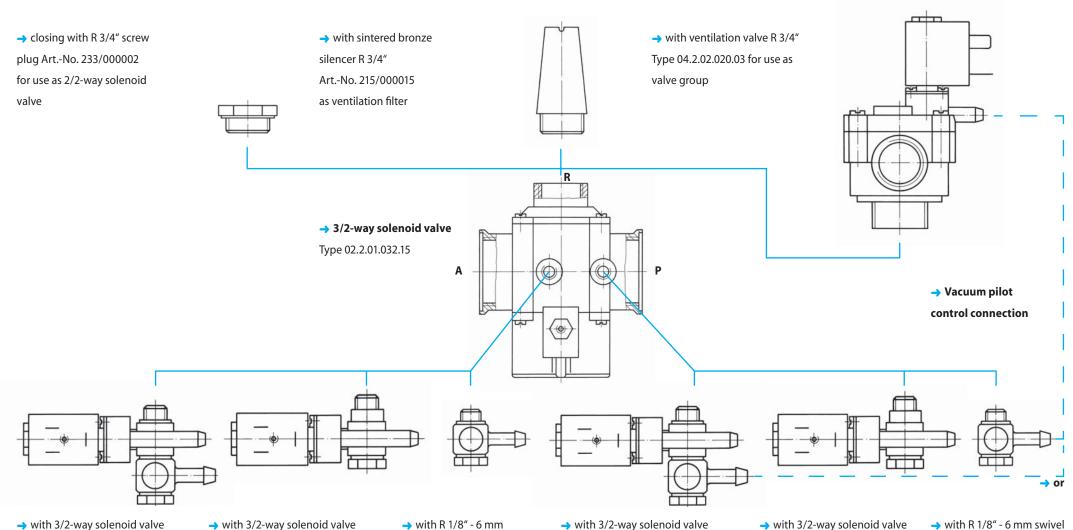
screw Art.-No. 233/000014

Art.-No. 233/000001

bore hollow screw Art.-No. 233/000003

as vacuum gauge connection

mounted with R 1/8" double-



Type 02.1.00.004.01 as "soft-ventilation valve" and R 1/8" - 6 mm swivel ring piece Art.-No. 233/000001 as vacuum gauge connection mounted with R 1/8" double-bore hollow screw

Art.-No. 233/000003

→ with 3/2-way solenoid valve
Type 02.1.00.004.01 as
"soft ventilation valve"
mounted with R 1/8"
single-bore hollow screw
Art.-No. 233/000014

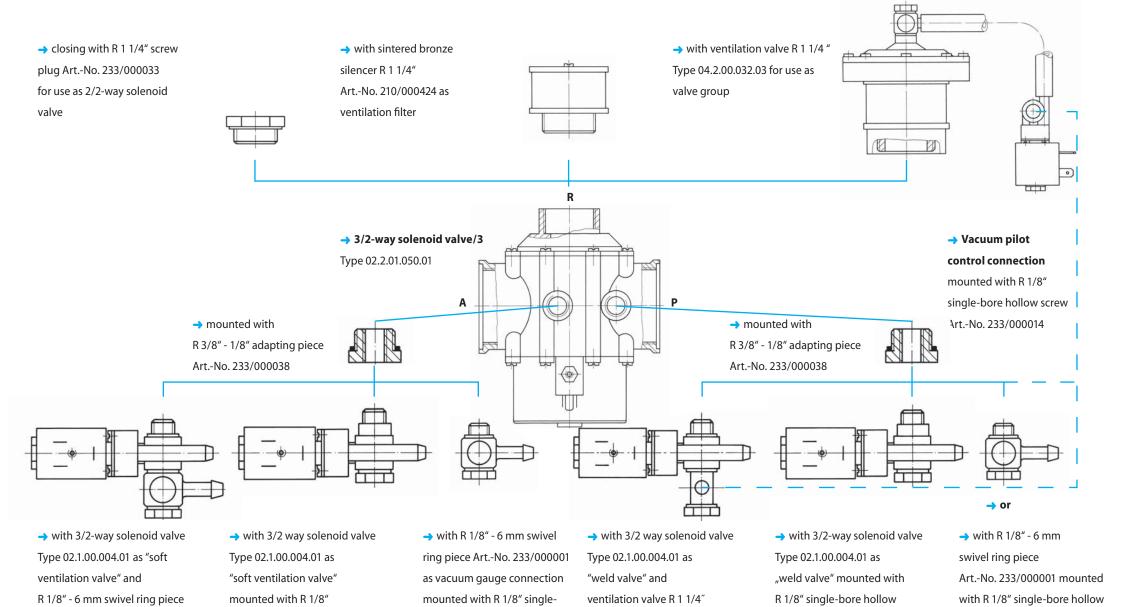
with R 1/8" - 6 mm swivel ring piece Art.-No. 233/000001 as vacuum gauge connection mounted with R 1/8" single-bore hollow screw Art.-No. 233/000014 with 3/2-way solenoid valve
Type 02.1.00.004.01 as "weld
valve" and R 1/8" - 6 mm swivel
ring piece Art.-No. 233/000001
in conjunction with ventilation
valve mounted with R 1/8"
double-bore hollow screw
Art.-No. 233/000003

with 3/2-way solenoid valve
Type 02.1.00.004.01 as

"weld valve" mounted with
R 1/8" single-bore hollow
screw Art.-No. 233/000014

with R 1/8" - 6 mm swivel ring piece Art.-No. 233/000001 in conjunction with ventilation valve mounted with R 1/8" single-bore hollow screw Art.-No. 233/000014

Possible combinations & accessories



Type 04.2.00.032.03

mounted with R 1/8"

Art.-No. 233/000003

double-bore hollow screw

screw Art.-No. 233/000014

screw Art.-No. 233/000014.

bore hollow screw

Art.-No. 233/000014

Possible combinations & accessories

single-bore hollow screw

Art.-No. 233/000014

Art.-No. 233/000001

mounted with R 1/8"

Art.-No. 233/000003

as vacuum gauge connection

double-bore hollow screw

Type 06.0.00.050....

→ Technical data.

Function single-acting with spring

returning

Connection hose nozzle 7 mm

Piston diameter 50 mm

Cylinder power 180 N max.

Stroke 8 mm

Operation pressure vacuum max. 99,9 %

Securing central with union nut

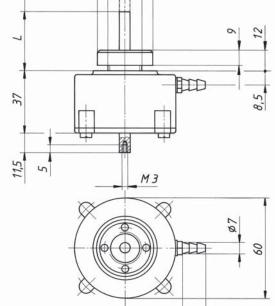
Piston rod through-going





Cylinder with through-going piston rod allow a power-supply to the sealing bar.

Vacuum Cylinder



47

14

Ø20 Ø6h9

45° turned through

Type 06.0.00.070....

→ Technical data.

single-acting with spring Function

returning

Connection 1 R 1/8"

Connection 2 R 1/8"

Piston diameter 70 mm

Cylinder power 330 N max.

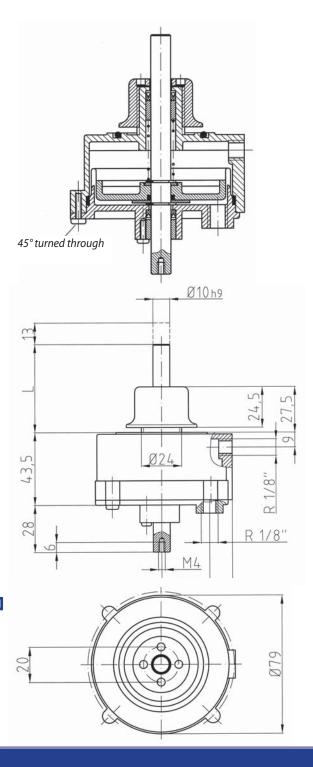
> Stroke 13 mm

Operation pressure vacuum max. 99,9 %

> Securing central with union nut

Piston rod through-going





→ Specials/Features.

Cylinder with through-going piston rod allow a powersupply to the sealing bar.



Type 06.0.00.080....

→ Technical data.

Function single-acting with spring

returning

Ambient temperature max. 80° C

Connection 1 R 1/8"

Connection 2 R 1/8"

Piston diameter 80 mm

Cylinder power 450 N max.

Stroke 13 mm

Operation pressure vacuum max. 99,9 %

Securing central with union nut

Piston rod through-going or one-sided



45° turned through

Ø24

10

R1/8"

R 1/8"

13

47

17,5

SW20

→ Specials/Features.

Cylinder with through-going piston rod allow a power-supply to the sealing bar.

Vacuum Cylinder



Type 06.0.00.080....

→ Technical data.

Function single-acting with spring

returning

Connection 1 R 1/8"

Connection 2 R 1/8"

Piston diameter 80 mm

Cylinder power 450 N max.

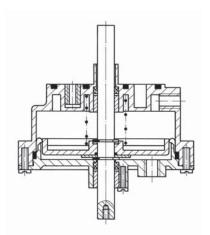
Stroke 13 mm

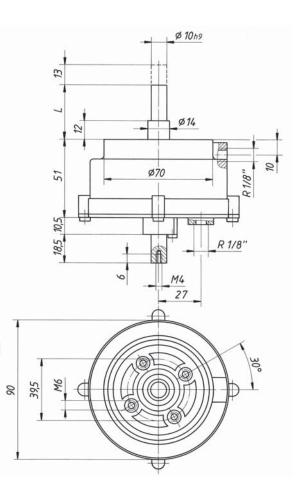
Operation pressure vacuum max. 99,9 %

Securing with 4 screws M 6

Piston rod through-going or one-sided







→ Specials/Features.

Cylinder with through-going piston rod allow a power-supply to the sealing bar.



Type 06.0.00.105....

→ Technical data.

Function single-acting with spring

returning

Connection 1 R 1/8"

Connection 2 R 1/8"

Piston diameter 105 mm

Cylinder power 750 N max.

Stroke 15 mm

Operation pressure vacuum max. 99,9 %

Securing central with union nut

Piston rod through-going or one-sided

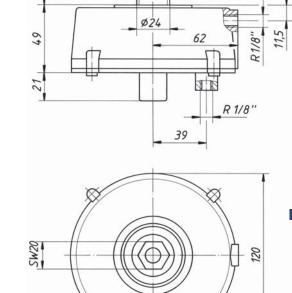




→ Specials/Features.

Cylinder with through-going piston rod allow a power-supply to the sealing bar.





Ø 10h9

90° turned through

15

Type 06.0.00.110....

→ Technical data.

single-acting with spring Function

returning

Connection 1 R 1/8"

Connection 2 R 1/8 "

Piston diameter 110 mm

Cylinder power 850 N max.

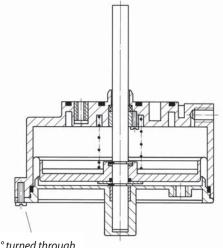
> Stroke 20 mm

Operation pressure vacuum max. 99,9 %

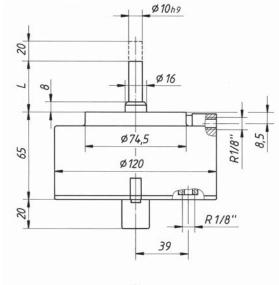
> Securing with 4 screws M 6

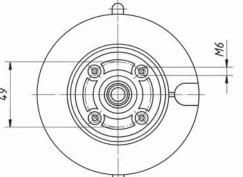
through-going or one-sided Piston rod





90° turned through





→ Specials/Features.

Cylinder with through-going piston rod allow a powersupply to the sealing bar.



Notes





→ Meßner GmbH & Co. KG

Echternhagen 7 32689 Kalletal - Germany

phone +49 5264.640-0

fax +49 5264.640-135

info@messner-pumpen.de



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We reserve the right to make changes for further technical improvements