KNOCKS
FLUID-TECHNIK

KNOCKS
FLUID Technik

Standard series

General catalogue

KNOCKS
Manufacturer competence
www.knocks.de

Robust, solid and extremely tough.
The KNOCKS Standard series.



KNOCKS Regulation inspiration for you.

40 YEARS OF EXPERIENCE

1970
- Heinz Knocks founds the company

1985
- New pressure regulator development for medical gases

1989
- New construction of the high-rack warehouse

1993
- Expansion of the assembly area

1995
- New pressure regulator development for water

2003
- Launch of the Kanban Material System

2004
- Certified according to DIN ISO 9001:2000

2008
- New construction of the logistics hall
- New pressure regulator development for inhaled air

2010
- 8,500 m² production and warehouse area
- 23 agencies in Germany and abroad
- Customers around the world

2011
- Launch of the Productfinder on www.knocks.de

The Standard series: For toughest requirements.

ONLY THE BEST IS GOOD ENOUGH FOR YOU?

Do you require intelligent problem solving? We will regulate it! As one of the leading manufacturers of compressed-air regulator systems and filter technology, we have been driving momentum in the industry for over 40 years. We deliver competent answers to your questions in all areas of compressed-air conditioning – providing not only expertise for a competitive edge, but also fair conditions.

OUR STANDARD SERIES

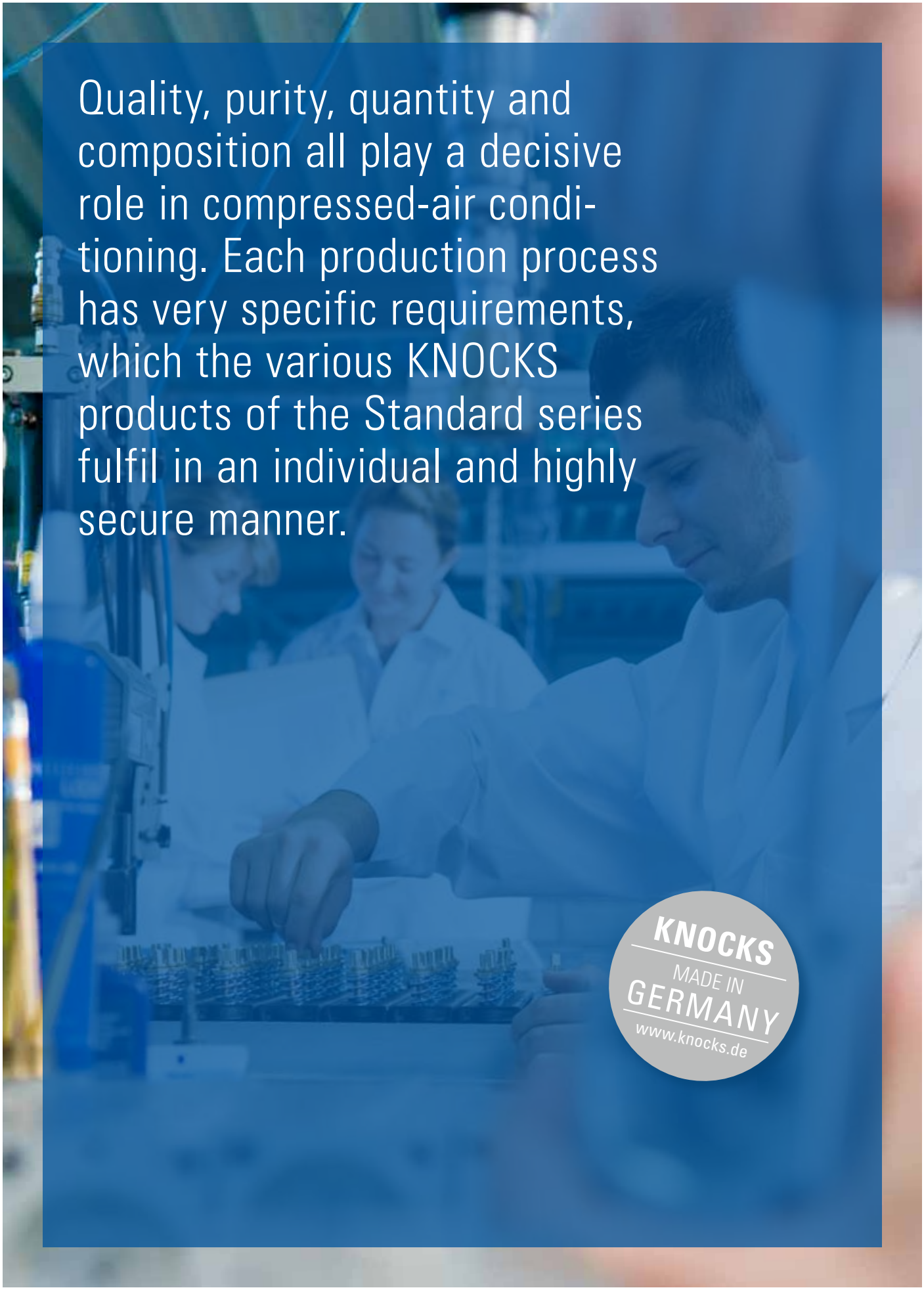
Our Standard series made of die-cast zinc has proven itself in tough everyday practice. Shockproof, it shows its true size, and not only in terms of its dimensions. The units in this series can master up to 3-inch connections and higher flow rate volumes with absolute assurance.



Our production – professional and committed.



At home in tough everyday practice: the Standard series.



Quality, purity, quantity and composition all play a decisive role in compressed-air conditioning. Each production process has very specific requirements, which the various KNOCKS products of the Standard series fulfil in an individual and highly secure manner.

Service 3 unit
BG0 | BG1 | BG2 | BG3 | BG5 | BG7 | BG8

Service 2 unit
BG0 | BG1 | BG2 | BG3 | BG5

Filter regulator
BG0 | BG1 | BG2 | BG3 | BG5

Filter
BG0 | BG1 | BG2 | BG3 | BG5 | BG8 | BG9

Pressure regulator
BG0 | BG1 | BG2 | BG3 | BG5 | BG7 | BG8

Lubricator
BG0 | BG1 | BG2 | BG3 | BG5 | BG8

Accessories
BG0 | BG1 | BG2 | BG3 | BG5 | BG7 | BG8 | BG9

Special products
BG0 | BG1 | BG2 | BG3 | BG5 | BG7 | BG8 | BG9

Service 3 unit | BG1

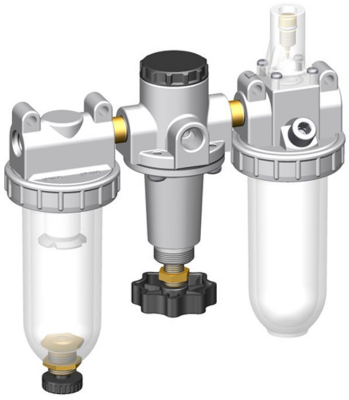


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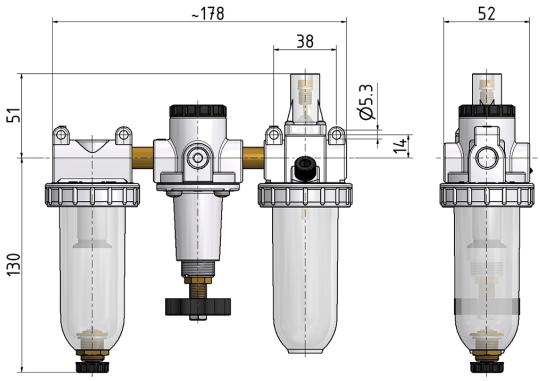
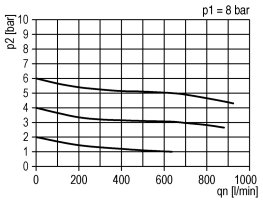
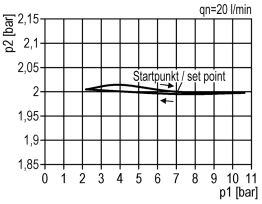


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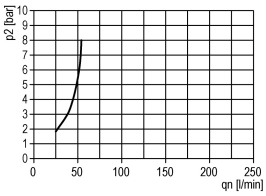
flow characteristic



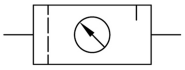
pressure characteristic



lubricator operating limit



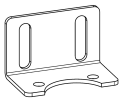
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm
- **bowl volume lubricator:** 40 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.10
- **control panel mounting:** nut DR.11-7

type	part-number	description
FRO.11 HA3	9.3011.00.005.0V	Service 3 unit G1/4 0,5-10 5µm with PC bowl and semi automatic drain
FRO.11 M HA3	9.3011.00.007.0V	Service 3 unit G1/4 0,5-10 5µm with metal bowl and semi automatic drain
FRO.11 HA3 B	9.3011.00.008.0V	Service 3 unit G1/4 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FRO.11 AM10	9.3011.00.010.0V	Service 3 unit G1/4 0,5-10 5µm with PC bowl and automatic drain
FRO.11 M AM10	9.3011.00.012.0V	Service 3 unit G1/4 0,5-10 5µm with metal bowl and automatic drain
FRO.11 AM10 B	9.3011.00.013.0V	Service 3 unit G1/4 0,5-10 5µm with PC bowl, bowl guard and automatic drain
FRO.12 HA3	9.3012.00.005.0V	Service 3 unit G3/8 0,5-10 5µm with PC bowl and semi automatic drain
FRO.12 M HA3	9.3012.00.007.0V	Service 3 unit G3/8 0,5-10 5µm with metal bowl and semi automatic drain
FRO.12 HA3 B	9.3012.00.008.0V	Service 3 unit G3/8 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FRO.12 AM10	9.3012.00.010.0V	Service 3 unit G3/8 0,5-10 5µm with PC bowl and automatic drain
FRO.12 M AM10	9.3012.00.012.0V	Service 3 unit G3/8 0,5-10 5µm with metal bowl and automatic drain
FRO.12 AM10 B	9.3012.00.013.0V	Service 3 unit G3/8 0,5-10 5µm with PC bowl, bowl guard and automatic drain

Service 3 unit | BG2

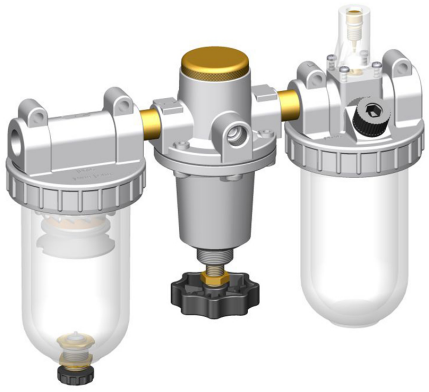


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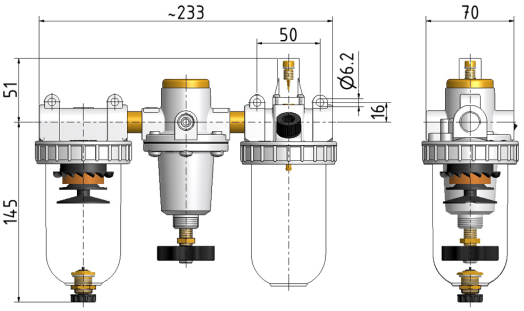
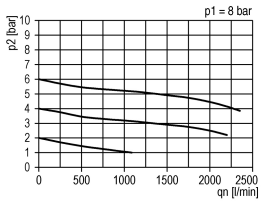
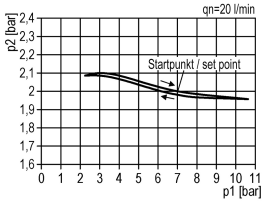


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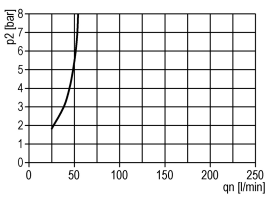
flow characteristic



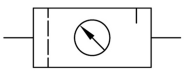
pressure characteristic



lubricator operating limit



symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm
- **bowl volume lubricator:** 110 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.20
- **control panel mounting:** nut DR.11-7

type	part-number	description
FRO.22 HA3	9.3022.00.125.0V	Service 3 unit G3/8 0,5-10 40µm with PC bowl and semi automatic drain
FRO.22 M HA3	9.3022.00.127.0V	Service 3 unit G3/8 0,5-10 40µm with metal bowl and semi automatic drain
FRO.22 HA3 B	9.3022.00.128.0V	Service 3 unit G3/8 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FRO.22 AM10	9.3022.00.130.0V	Service 3 unit G3/8 0,5-10 40µm with PC bowl and automatic drain
FRO.22 M AM10	9.3022.00.132.0V	Service 3 unit G3/8 0,5-10 40µm with metal bowl and automatic drain
FRO.22 AM10 B	9.3022.00.133.0V	Service 3 unit G3/8 0,5-10 40µm with PC bowl, bowl guard and automatic drain
FRO.23 HA3	9.3023.00.125.0V	Service 3 unit G1/2 0,5-10 40µm with PC bowl and semi automatic drain
FRO.23 M HA3	9.3023.00.127.0V	Service 3 unit G1/2 0,5-10 40µm with metal bowl and semi automatic drain
FRO.23 HA3 B	9.3023.00.128.0V	Service 3 unit G1/2 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FRO.23 AM10	9.3023.00.130.0V	Service 3 unit G1/2 0,5-10 40µm with PC bowl and automatic drain
FRO.23 M AM10	9.3023.00.132.0V	Service 3 unit G1/2 0,5-10 40µm with metal bowl and automatic drain
FRO.23 AM10 B	9.3023.00.133.0V	Service 3 unit G1/2 0,5-10 40µm with PC bowl, bowl guard and automatic drain

Service 3 unit | BG3

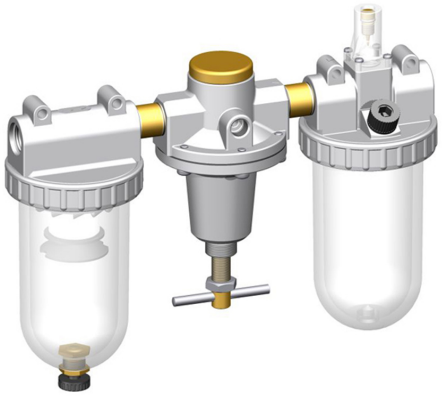


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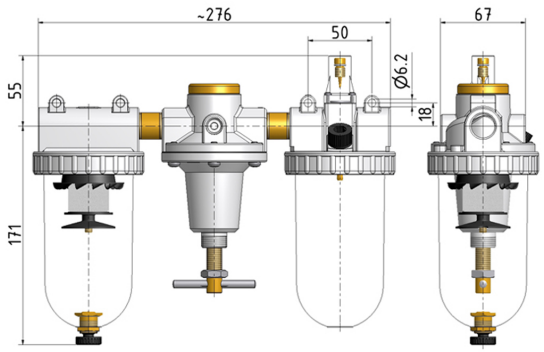
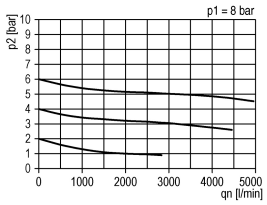
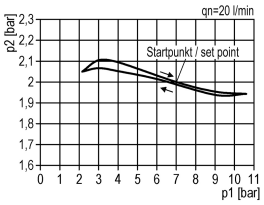


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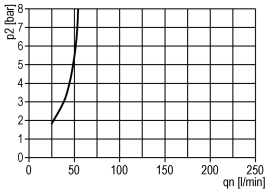
flow characteristic



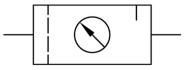
pressure characteristic



lubricator operating limit



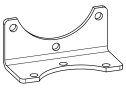
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm
- **bowl volume lubricator:** 135 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
FRO.33 HA3	9.3033.00.005.0V	Service 3 unit G1/2 0,5-10 5µm with PC bowl and semi automatic drain
FRO.33 M HA3	9.3033.00.007.0V	Service 3 unit G1/2 0,5-10 5µm with metal bowl and semi automatic drain
FRO.33 HA3 B	9.3033.00.008.0V	Service 3 unit G1/2 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FRO.33 AM10	9.3033.00.010.0V	Service 3 unit G1/2 0,5-10 5µm with PC bowl and automatic drain
FRO.33 M AM10	9.3033.00.012.0V	Service 3 unit G1/2 0,5-10 5µm with metal bowl and automatic drain
FRO.33 AM10 B	9.3033.00.013.0V	Service 3 unit G1/2 0,5-10 5µm with PC bowl, bowl guard and automatic drain

Service 3 unit | BG3

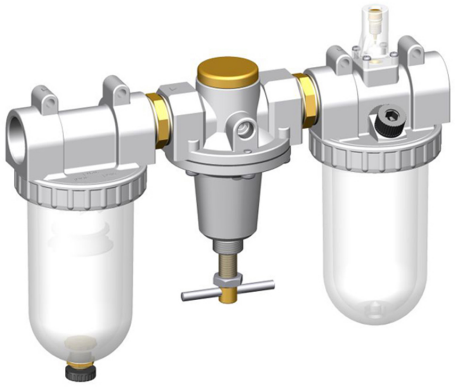


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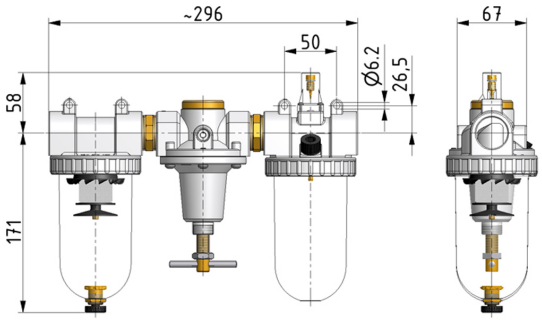
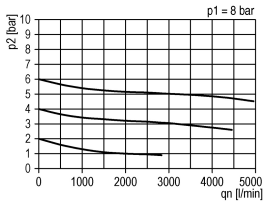
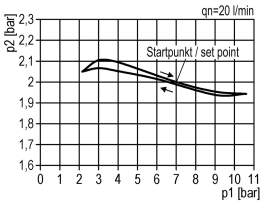


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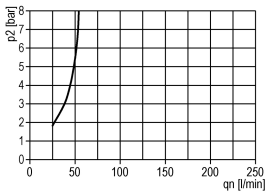
flow characteristic



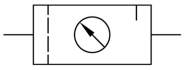
pressure characteristic



lubricator operating limit



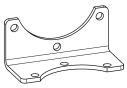
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm
- **bowl volume lubricator:** 135 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.30

- **control panel mounting:** nut DR.11-7

type	part-number	description
FRO.34 HA3	9.3034.00.005.0	Service 3 unit G3/4 0,5-10 5µm with PC bowl and semi automatic drain
FRO.34 M HA3	9.3034.00.007.0	Service 3 unit G3/4 0,5-10 5µm with metal bowl and semi automatic drain
FRO.34 HA3 B	9.3034.00.008.0	Service 3 unit G3/4 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FRO.34 AM10	9.3034.00.010.0	Service 3 unit G3/4 0,5-10 5µm with PC bowl and automatic drain
FRO.34 M AM10	9.3034.00.012.0	Service 3 unit G3/4 0,5-10 5µm with metal bowl and automatic drain
FRO.34 AM10 B	9.3034.00.013.0	Service 3 unit G3/4 0,5-10 5µm with PC bowl, bowl guard and automatic drain
FRO.35 HA3	9.3035.00.005.0	Service 3 unit G1 0,5-10 5µm with PC bowl and semi automatic drain
FRO.35 M HA3	9.3035.00.007.0	Service 3 unit G1 0,5-10 5µm with metal bowl and semi automatic drain
FRO.35 HA3 B	9.3035.00.008.0	Service 3 unit G1 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FRO.35 AM10	9.3035.00.010.0	Service 3 unit G1 0,5-10 5µm with PC bowl and automatic drain
FRO.35 M AM10	9.3035.00.012.0	Service 3 unit G1 0,5-10 5µm with metal bowl and automatic drain
FRO.35 AM10 B	9.3035.00.013.0	Service 3 unit G1 0,5-10 5µm with PC bowl, bowl guard and automatic drain

Service 3 unit | BG5

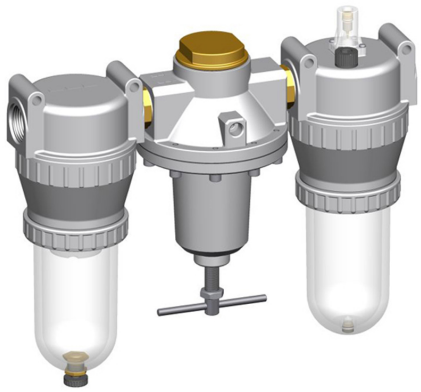


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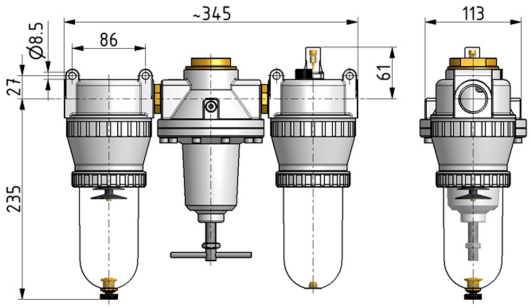
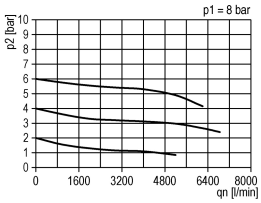
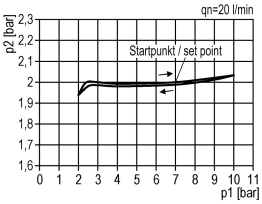


Image shows:
9.3055.00.125.0

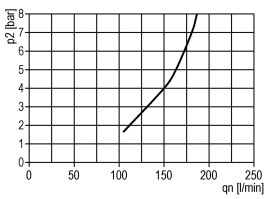
flow characteristic



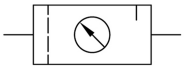
pressure characteristic



lubricator operating limit



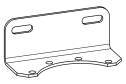
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm
- **bowl volume lubricator:** 550 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.50

type	part-number	description
FRO.55 HA3	9.3055.00.125.0	Service 3 unit G1 0,5-10 40µm with PC bowl and semi automatic drain
FRO.55 M HA3	9.3055.00.127.0	Service 3 unit G1 0,5-10 40µm with metal bowl and semi automatic drain
FRO.55 HA3 B	9.3055.00.128.0	Service 3 unit G1 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FRO.55 AM10	9.3055.00.130.0	Service 3 unit G1 0,5-10 40µm with PC bowl and automatic drain
FRO.55 M AM10	9.3055.00.132.0	Service 3 unit G1 0,5-10 40µm with metal bowl and automatic drain
FRO.55 AM10 B	9.3055.00.133.0	Service 3 unit G1 0,5-10 40µm with PC bowl, bowl guard and automatic drain

Service 3 unit | BG8



Image shows:
9.3088.00.125.0

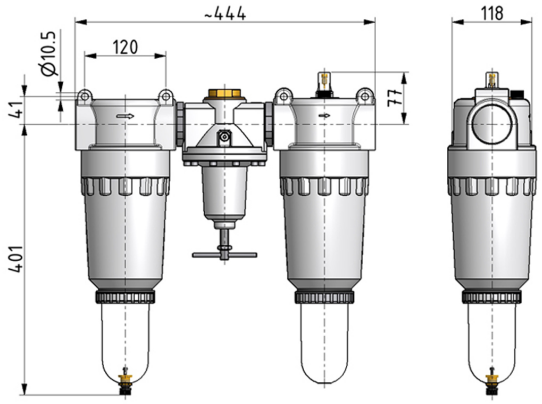
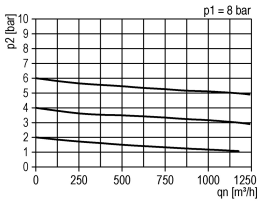
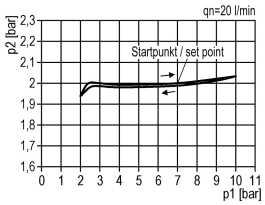


Image shows:
9.3088.00.125.0

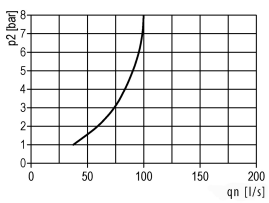
flow characteristic



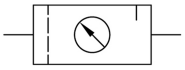
pressure characteristic



lubricator operating limit



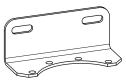
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 60 µm
- **bowl volume lubricator:** 1700 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.50

type	part-number	description
FRO.88 HA3	9.3088.00.125.0	Service 3 unit G2 0,5-10 60µm with PC bowl and semi automatic drain
FRO.88 M HA3	9.3088.00.127.0	Service 3 unit G2 0,5-10 60µm with metal bowl and semi automatic drain
FRO.88 HA3 B	9.3088.00.128.0	Service 3 unit G2 0,5-10 60µm with PC bowl, bowl guard and semi automatic drain
FRO.88 AM10	9.3088.00.130.0	Service 3 unit G2 0,5-10 60µm with PC bowl and automatic drain
FRO.88 M AM10	9.3088.00.132.0	Service 3 unit G2 0,5-10 60µm with metal bowl and automatic drain
FRO.88 AM10 B	9.3088.00.133.0	Service 3 unit G2 0,5-10 60µm with PC bowl, bowl guard and automatic drain

Service 2 unit | BG0



Image shows:
9.3100.00.005.0V

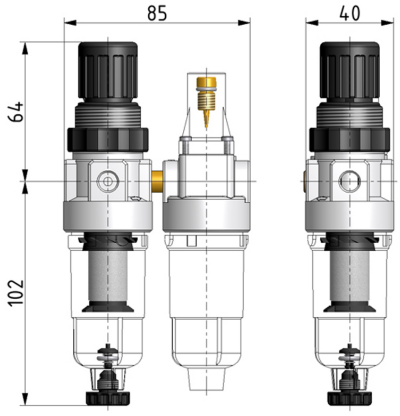
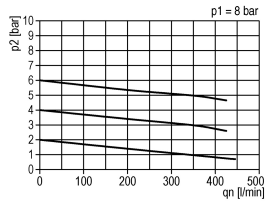
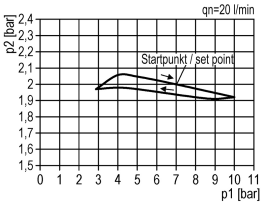


Image shows:
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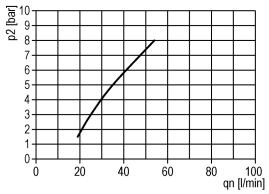
flow characteristic



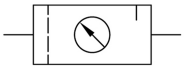
pressure characteristic



lubricator operating limit



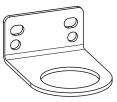
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA
- **mounting:** vertical
- **filter element:** 5 µm
- **bowl volume lubricator:** 17 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
FDO.00 HA4	9.3100.00.005.0V	Service 2 unit G1/8 0,5-10 5µm with PC bowl and semi automatic drain
FDO.00 M HA4	9.3100.00.007.0V	Service 2 unit G1/8 0,5-10 5µm with metal bowl and semi automatic drain
FDO.01 HA4	9.3101.00.005.0	Service 2 unit G1/4 0,5-10 5µm with PC bowl and semi automatic drain
FDO.01 M HA4	9.3101.00.007.0V	Service 2 unit G1/4 0,5-10 5µm with metal bowl and semi automatic drain

Service 2 unit | BG1

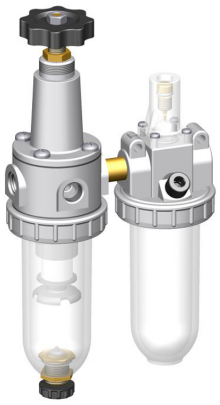


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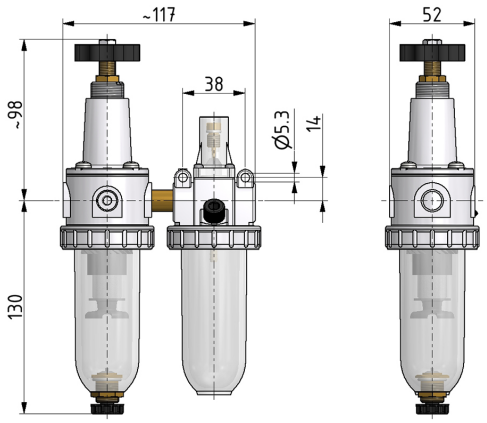
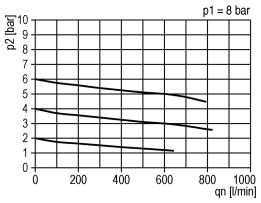
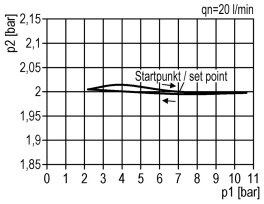


Image shows:
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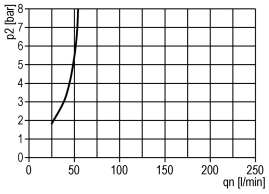
flow characteristic



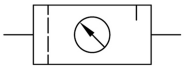
pressure characteristic



lubricator operating limit



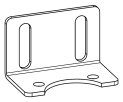
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm
- **bowl volume lubricator:** 40 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.10
- **control panel mounting:** nut DR.11-7

type	part-number	description
FDO.11 HA3	9.3111.00.005.0V	Service 2 unit G1/4 0,5-10 5µm with PC bowl and semi automatic drain
FDO.11 M HA3	9.3111.00.007.0V	Service 2 unit G1/4 0,5-10 5µm with metal bowl and semi automatic drain
FDO.11 HA3 B	9.3111.00.008.0V	Service 2 unit G1/4 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FDO.12 HA3	9.3112.00.005.0V	Service 2 unit G3/8 0,5-10 5µm with PC bowl and semi automatic drain
FDO.12 M HA3	9.3112.00.007.0V	Service 2 unit G3/8 0,5-10 5µm with metal bowl and semi automatic drain
FDO.12 HA3 B	9.3112.00.008.0V	Service 2 unit G3/8 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain

Service 2 unit | BG2

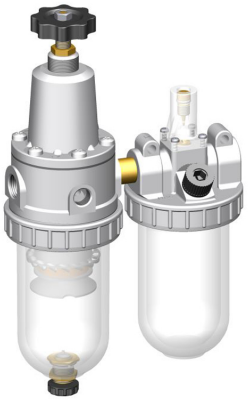


Image shows:
9.3122.00.125.0V

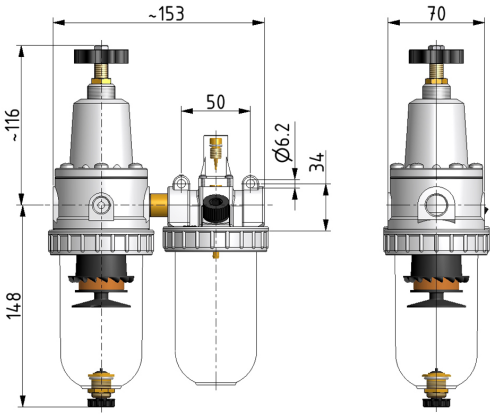
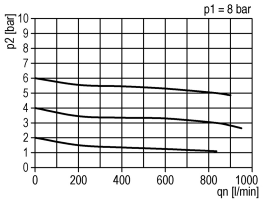
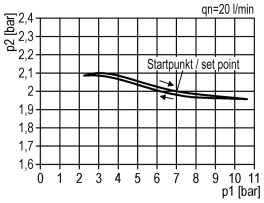


Image shows:
9.3122.00.125.0V

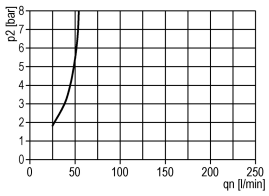
flow characteristic



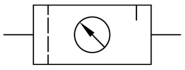
pressure characteristic



lubricator operating limit



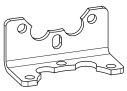
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm
- **bowl volume lubricator:** 110 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.20
- **control panel mounting:** nut DR.11-7

type	part-number	description
FDO.22 HA3	9.3122.00.125.0V	Service 2 unit G3/8 0,5-10 40µm with PC bowl and semi automatic drain
FDO.22 M HA3	9.3122.00.127.0V	Service 2 unit G3/8 0,5-10 40µm with metal bowl and semi automatic drain
FDO.22 HA3 B	9.3122.00.128.0V	Service 2 unit G3/8 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FDO.22 AM10	9.3122.00.130.0V	Service 2 unit G3/8 0,5-10 40µm with PC bowl and automatic drain
FDO.22 M AM10	9.3122.00.132.0V	Service 2 unit G3/8 0,5-10 40µm with metal bowl and automatic drain
FDO.22 AM10 B	9.3122.00.133.0V	Service 2 unit G3/8 0,5-10 40µm with PC bowl, bowl guard and automatic drain
FDO.23 HA3	9.3123.00.125.0V	Service 2 unit G1/2 0,5-10 40µm with PC bowl and semi automatic drain
FDO.23 M HA3	9.3123.00.127.0V	Service 2 unit G1/2 0,5-10 40µm with metal bowl and semi automatic drain
FDO.23 HA3 B	9.3123.00.128.0V	Service 2 unit G1/2 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FDO.23 AM10	9.3123.00.130.0V	Service 2 unit G1/2 0,5-10 40µm with PC bowl and automatic drain
FDO.23 M AM10	9.3123.00.132.0V	Service 2 unit G1/2 0,5-10 40µm with metal bowl and automatic drain
FDO.23 AM10 B	9.3123.00.133.0V	Service 2 unit G1/2 0,5-10 40µm with PC bowl, bowl guard and automatic drain

Service 2 unit | BG3

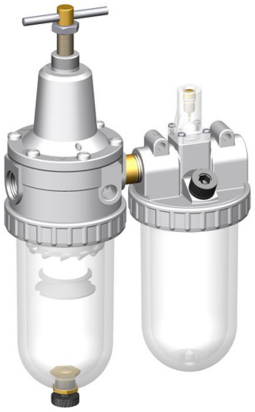


Image shows:
9.3133.00.005.0V

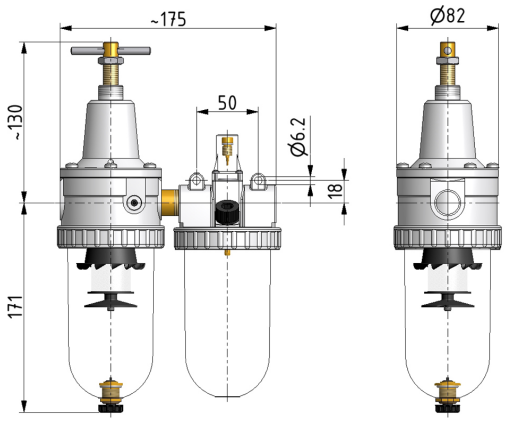
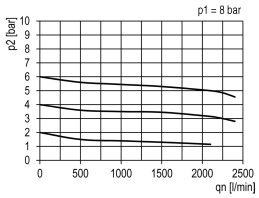
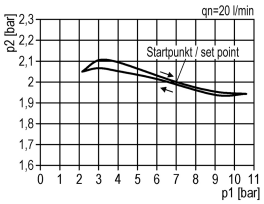


Image shows:
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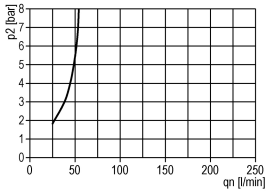
flow characteristic



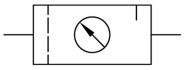
pressure characteristic



lubricator operating limit



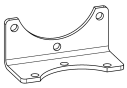
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm
- **bowl volume lubricator:** 135 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
FDO.33 HA3	9.3133.00.005.0V	Service 2 unit G1/2 0,5-10 5µm with PC bowl and semi automatic drain
FDO.33 M HA3	9.3133.00.007.0V	Service 2 unit G1/2 0,5-10 5µm with metal bowl and semi automatic drain
FDO.33 HA3 B	9.3133.00.008.0V	Service 2 unit G1/2 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FDO.33 AM10	9.3133.00.010.0V	Service 2 unit G1/2 0,5-10 5µm with PC bowl and automatic drain
FDO.33 M AM10	9.3133.00.012.0V	Service 2 unit G1/2 0,5-10 5µm with metal bowl and automatic drain
FDO.33 AM10 B	9.3133.00.013.0V	Service 2 unit G1/2 0,5-10 5µm with PC bowl, bowl guard and automatic drain

Service 2 unit | BG5

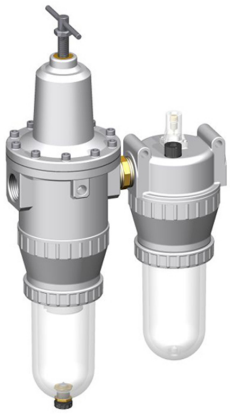


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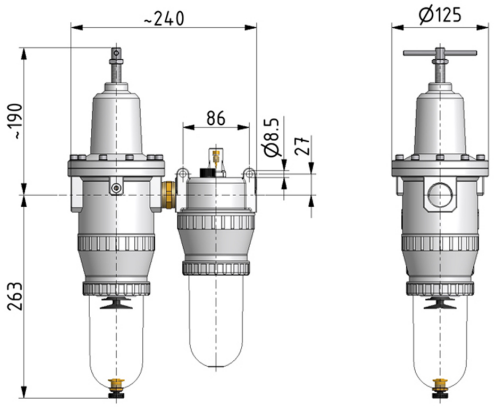
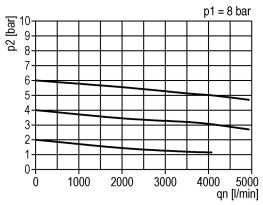
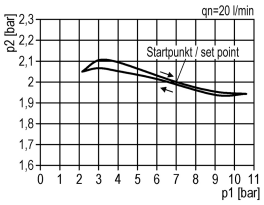


Image shows:
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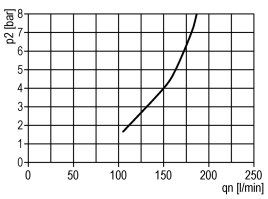
flow characteristic



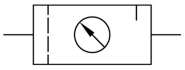
pressure characteristic



lubricator operating limit



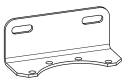
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature, proportional oiler
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm
- **bowl volume lubricator:** 550 cm³
- **oil metering qv=1.000l/min:** 1 - 2 drops/min
- **oil type:** CL 32 DIN 51517 - ISO VG 32

accessories



- **mounting bracket:** BW.50

type	part-number	description
FDO.54 HA3	9.3154.00.125.0	Service 2 unit G3/4 0,5-10 40µm with PC bowl and semi automatic drain
FDO.54 M HA3	9.3154.00.127.0	Service 2 unit G3/4 0,5-10 40µm with metal bowl and semi automatic drain
FDO.54 HA3 B	9.3154.00.128.0	Service 2 unit G3/4 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FDO.54 AM10	9.3154.00.130.0	Service 2 unit G3/4 0,5-10 40µm with PC bowl and automatic drain
FDO.54 M AM10	9.3154.00.132.0	Service 2 unit G3/4 0,5-10 40µm with metal bowl and automatic drain
FDO.54 AM10 B	9.3154.00.133.0	Service 2 unit G3/4 0,5-10 40µm with PC bowl, bowl guard and automatic drain
FDO.55 HA3	9.3155.00.125.0	Service 2 unit G1 0,5-10 40µm with PC bowl and semi automatic drain
FDO.55 M HA3	9.3155.00.127.0	Service 2 unit G1 0,5-10 40µm with metal bowl and semi automatic drain
FDO.55 HA3 B	9.3155.00.128.0	Service 2 unit G1 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FDO.55 AM10	9.3155.00.130.0	Service 2 unit G1 0,5-10 40µm with PC bowl and automatic drain
FDO.55 M AM10	9.3155.00.132.0	Service 2 unit G1 0,5-10 40µm with metal bowl and automatic drain
FDO.55 AM10 B	9.3155.00.133.0	Service 2 unit G1 0,5-10 40µm with PC bowl, bowl guard and automatic drain

Filter regulator | BG0



Image shows:
9.1900.00.005.0V

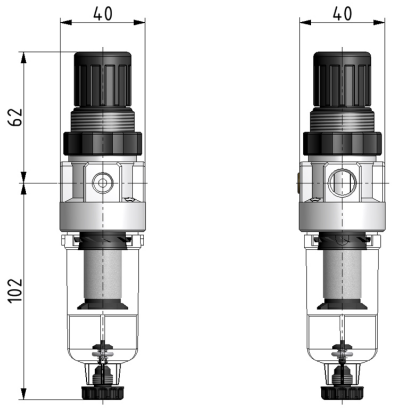
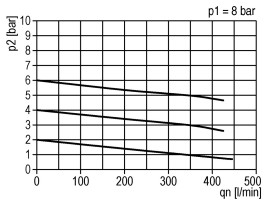
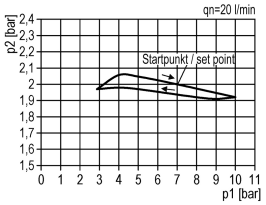


Image shows:
9.1900.00.005.0V

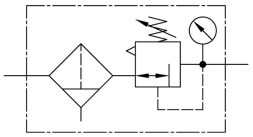
flow characteristic



pressure characteristic



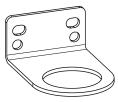
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA
- **mounting:** vertical
- **filter element:** 5 µm

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
FD.00 HA4	9.1900.00.005.0V	Filter regulator G1/8 0,5-10 5µm with PC bowl and semi automatic drain
FD.00 M HA4	9.1900.00.007.0V	Filter regulator G1/8 0,5-10 5µm with metal bowl and semi automatic drain
FD.01 HA4	9.1901.00.005.0V	Filter regulator G1/4 0,5-10 5µm with PC bowl and semi automatic drain
FD.01 M HA4	9.1901.00.007.0V	Filter regulator G1/4 0,5-10 5µm with metal bowl and semi automatic drain

Filter regulator | BG1



Image shows:
9.1911.00.005.0V

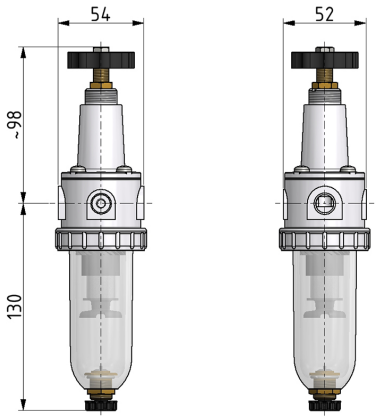
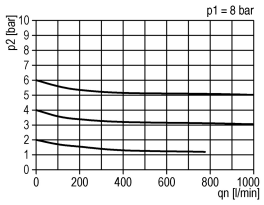
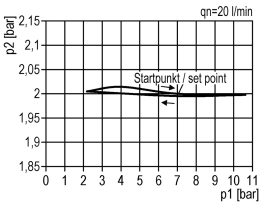


Image shows:
9.1911.00.005.0V

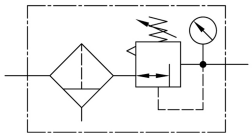
flow characteristic



pressure characteristic



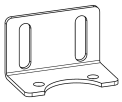
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm

accessories



- **mounting bracket:** BW.10
- **control panel mounting:** nut DR.11-7

type	part-number	description
FD.11 HA3	9.1911.00.005.0V	Filter regulator G1/4 0,5-10 5µm with PC bowl and semi automatic drain
FD.11 M HA3	9.1911.00.007.0V	Filter regulator G1/4 0,5-10 5µm with metal bowl and semi automatic drain
FD.11 HA3 B	9.1911.00.008.0V	Filter regulator G1/4 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FD.12 HA3	9.1912.00.005.0V	Filter regulator G3/8 0,5-10 5µm with PC bowl and semi automatic drain
FD.12 M HA3	9.1912.00.007.0V	Filter regulator G3/8 0,5-10 5µm with metal bowl and semi automatic drain
FD.12 HA3 B	9.1912.00.008.0V	Filter regulator G3/8 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain

Filter regulator | BG2



Image shows:
9.1922.00.125.0V

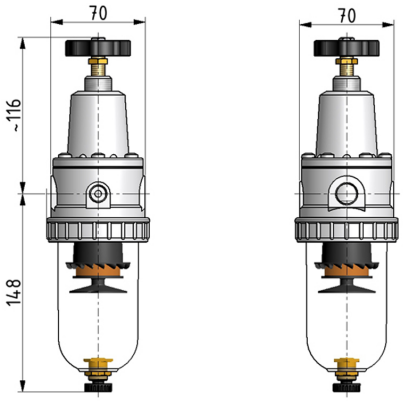
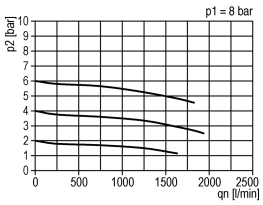
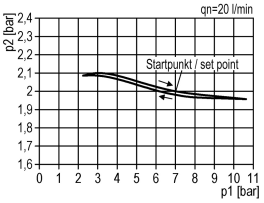


Image shows:
9.1922.00.125.0V

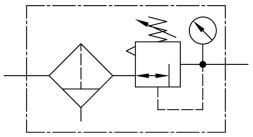
flow characteristic



pressure characteristic



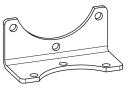
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
FD.22 HA3	9.1922.00.125.0V	Filter regulator G3/8 0,5-10 40µm with PC bowl and semi automatic drain
FD.22 M HA3	9.1922.00.127.0V	Filter regulator G3/8 0,5-10 40µm with metal bowl and semi automatic drain
FD.22 HA3 B	9.1922.00.128.0V	Filter regulator G3/8 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FD.22 AM10	9.1922.00.130.0V	Filter regulator G3/8 0,5-10 40µm with PC bowl and automatic drain
FD.22 M AM10	9.1922.00.132.0V	Filter regulator G3/8 0,5-10 40µm with metal bowl and automatic drain
FD.22 AM10 B	9.1922.00.133.0V	Filter regulator G3/8 0,5-10 40µm with PC bowl, bowl guard and automatic drain
FD.23 HA3	9.1923.00.125.0V	Filter regulator G1/2 0,5-10 40µm with PC bowl and semi automatic drain
FD.23 M HA3	9.1923.00.127.0V	Filter regulator G1/2 0,5-10 40µm with metal bowl and semi automatic drain
FD.23 HA3 B	9.1923.00.128.0V	Filter regulator G1/2 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FD.23 AM10	9.1923.00.130.0V	Filter regulator G1/2 0,5-10 40µm with PC bowl and automatic drain
FD.23 M AM10	9.1923.00.132.0V	Filter regulator G1/2 0,5-10 40µm with metal bowl and automatic drain
FD.23 AM10 B	9.1923.00.133.0V	Filter regulator G1/2 0,5-10 40µm with PC bowl, bowl guard and automatic drain

Filter regulator | BG3



Image shows:
9.1933.00.005.0V

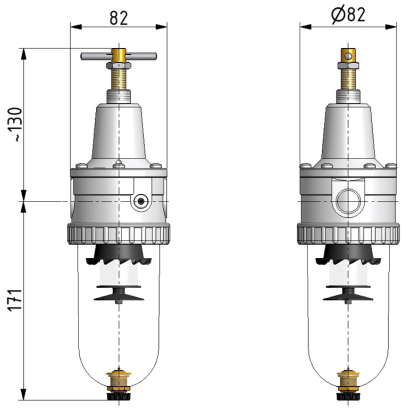
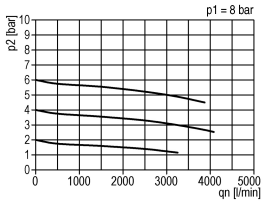
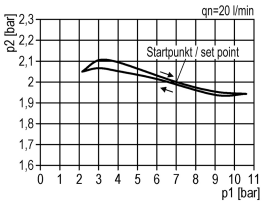


Image shows:
9.1933.00.005.0V

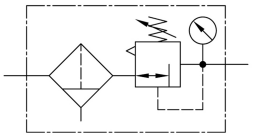
flow characteristic



pressure characteristic



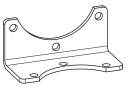
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
FD.33 HA3	9.1933.00.005.0V	Filter regulator G1/2 0,5-10 5µm with PC bowl and semi automatic drain
FD.33 M HA3	9.1933.00.007.0V	Filter regulator G1/2 0,5-10 5µm with metal bowl and semi automatic drain
FD.33 HA3 B	9.1933.00.008.0V	Filter regulator G1/2 0,5-10 5µm with PC bowl, bowl guard and semi automatic drain
FD.33 AM10	9.1933.00.010.0V	Filter regulator G1/2 0,5-10 5µm with PC bowl and automatic drain
FD.33 M AM10	9.1933.00.012.0V	Filter regulator G1/2 0,5-10 5µm with metal bowl and automatic drain
FD.33 AM10 B	9.1933.00.013.0V	Filter regulator G1/2 0,5-10 5µm with PC bowl, bowl guard and automatic drain

Filter regulator | BG5



Image shows:
9.1954.00.125.0

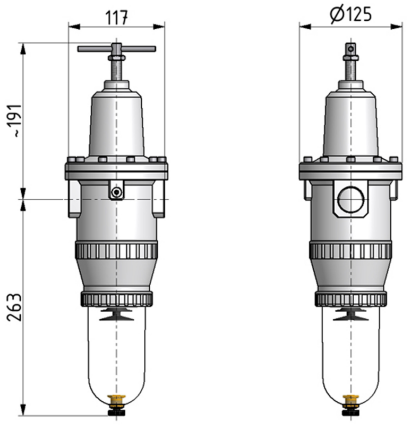
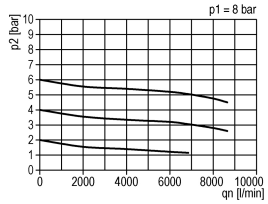
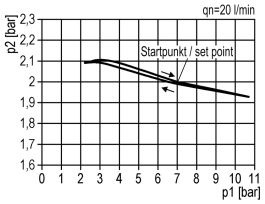


Image shows:
9.1954.00.125.0

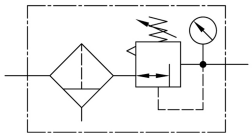
flow characteristic



pressure characteristic



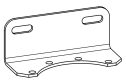
symbol



technical data

- **description:** sinter filter centrifugal principle, diaphragm-type pressure with relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm

accessories



- mounting bracket: BW.50

type	part-number	description
FD.54 HA3	9.1954.00.125.0	Filter regulator G3/4 0,5-10 40µm with PC bowl and semi automatic drain
FD.54 M HA3	9.1954.00.127.0	Filter regulator G3/4 0,5-10 40µm with metal bowl and semi automatic drain
FD.54 HA3 B	9.1954.00.128.0	Filter regulator G3/4 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FD.54 AM10	9.1954.00.130.0	Filter regulator G3/4 0,5-10 40µm with PC bowl and automatic drain
FD.54 M AM10	9.1954.00.132.0	Filter regulator G3/4 0,5-10 40µm with metal bowl and automatic drain
FD.54 AM10 B	9.1954.00.133.0	Filter regulator G3/4 0,5-10 40µm with PC bowl, bowl guard and automatic drain
FD.55 HA3	9.1955.00.125.0	Filter regulator G1 0,5-10 40µm with PC bowl and semi automatic drain
FD.55 M HA3	9.1955.00.127.0	Filter regulator G1 0,5-10 40µm with metal bowl and semi automatic drain
FD.55 HA3 B	9.1955.00.128.0	Filter regulator G1 0,5-10 40µm with PC bowl, bowl guard and semi automatic drain
FD.55 AM10	9.1955.00.130.0	Filter regulator G1 0,5-10 40µm with PC bowl and automatic drain
FD.55 M AM10	9.1955.00.132.0	Filter regulator G1 0,5-10 40µm with metal bowl and automatic drain
FD.55 AM10 B	9.1955.00.133.0	Filter regulator G1 0,5-10 40µm with PC bowl, bowl guard and automatic drain
FD.55 HA3	9.1955.00.665.0V	Filter regulator G1 0,5-16 40µm with PC bowl and semi automatic drain

Filter | BG0

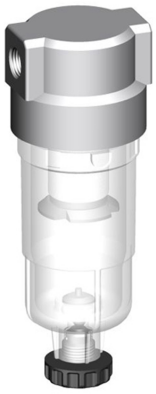


Image shows:
9.1100.00.050.0V

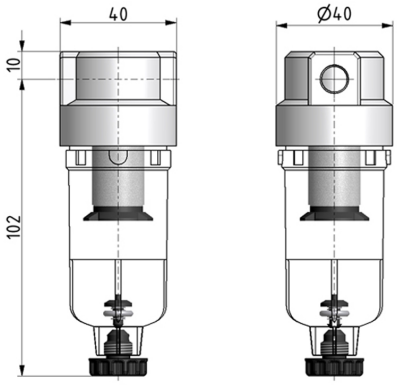
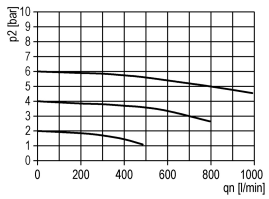
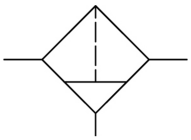


Image shows:
9.1100.00.050.0V

flow characteristic



symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA
- **mounting:** vertical
- **filter element:** 5 µm

accessories

type	part-number	description
DF.00 HA4	9.1100.00.050.0V	Filter G1/8 5µm with PC bowl and semi automatic drain
DF.00 M HA4	9.1100.00.052.0V	Filter G1/8 5µm with metal bowl and semi automatic drain
DF.01 HA4	9.1101.00.050.0V	Filter G1/4 5µm with PC bowl and semi automatic drain
DF.01 M HA4	9.1101.00.052.0V	Filter G1/4 5µm with metal bowl and semi automatic drain

Filter | BG1



Image shows:
9.1111.00.050.0V

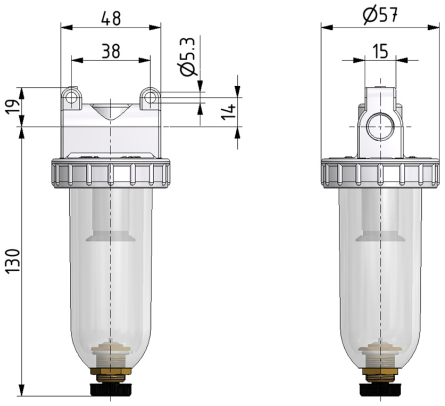
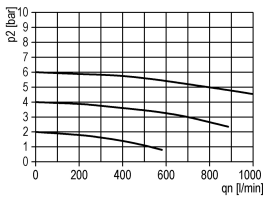
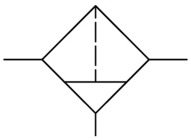


Image shows:
9.1111.00.050.0V

flow characteristic



symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm

accessories



- mounting bracket: ZW.10

type	part-number	description
DF.11 HA3	9.1111.00.050.0V	Filter G1/4 5µm with PC bowl and semi automatic drain
DF.11 M HA3	9.1111.00.052.0V	Filter G1/4 5µm with metal bowl and semi automatic drain
DF.11 HA3 B	9.1111.00.053.0V	Filter G1/4 5µm with PC bowl, bowl guard and semi automatic drain
DF.11 AM10	9.1111.00.100.0V	Filter G1/4 5µm with PC bowl and automatic drain
DF.11 M AM10	9.1111.00.102.0V	Filter G1/4 5µm with metal bowl and automatic drain
DF.11 AM10 B	9.1111.00.103.0V	Filter G1/4 5µm with PC bowl, bowl guard and automatic drain
DF.12 HA3	9.1112.00.050.0V	Filter G3/8 5µm with PC bowl and semi automatic drain
DF.12 M HA3	9.1112.00.052.0V	Filter G3/8 5µm with metal bowl and semi automatic drain
DF.12 HA3 B	9.1112.00.053.0V	Filter G3/8 5µm with PC bowl, bowl guard and semi automatic drain
DF.12 AM10	9.1112.00.100.0V	Filter G3/8 5µm with PC bowl and automatic drain
DF.12 M AM10	9.1112.00.102.0V	Filter G3/8 5µm with metal bowl and automatic drain
DF.12 AM10 B	9.1112.00.103.0V	Filter G3/8 5µm with PC bowl, bowl guard and automatic drain

Filter | BG2



Image shows:
9.1122.00.350.0V

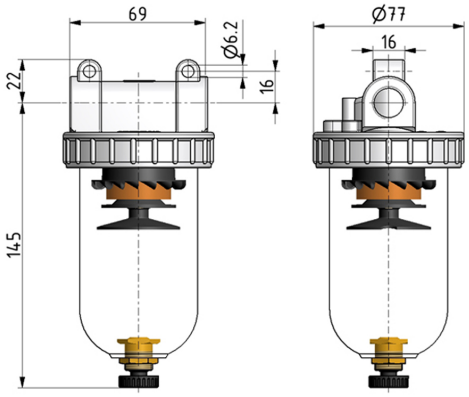
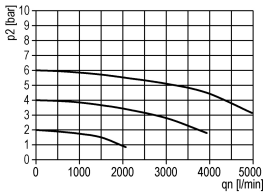
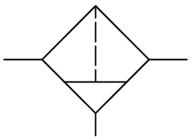


Image shows:
9.1122.00.350.0V

flow characteristic



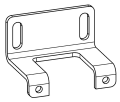
symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm

accessories



- mounting bracket: ZW.30

type	part-number	description
DF.22 HA3	9.1122.00.350.0V	Filter G3/8 40µm with PC bowl and semi automatic drain
DF.22 M HA3	9.1122.00.352.0V	Filter G3/8 40µm with metal bowl and semi automatic drain
DF.22 HA3 B	9.1122.00.353.0V	Filter G3/8 40µm with PC bowl, bowl guard and semi automatic drain
DF.22 AM10	9.1122.00.400.0V	Filter G3/8 40µm with PC bowl and automatic drain
DF.22 M AM10	9.1122.00.402.0V	Filter G3/8 40µm with metal bowl and automatic drain
DF.22 AM10 B	9.1122.00.403.0V	Filter G3/8 40µm with PC bowl, bowl guard and automatic drain
DF.23 HA3	9.1123.00.350.0V	Filter G1/2 40µm with PC bowl and semi automatic drain
DF.23 M HA3	9.1123.00.352.0V	Filter G1/2 40µm with metal bowl and semi automatic drain
DF.23 HA3 B	9.1123.00.353.0V	Filter G1/2 40µm with PC bowl, bowl guard and semi automatic drain
DF.23 AM10	9.1123.00.400.0V	Filter G1/2 40µm with PC bowl and automatic drain
DF.23 M AM10	9.1123.00.402.0V	Filter G1/2 40µm with metal bowl and automatic drain
DF.23 AM10 B	9.1123.00.403.0V	Filter G1/2 40µm with PC bowl, bowl guard and automatic drain

Filter | BG3



Image shows:
9.1133.00.050.0V

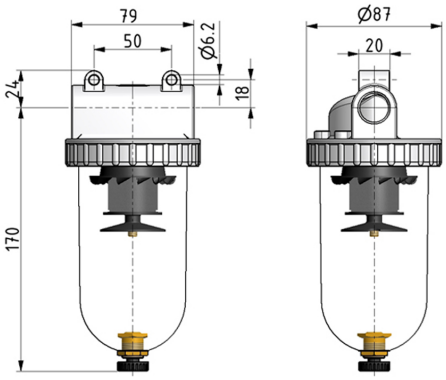
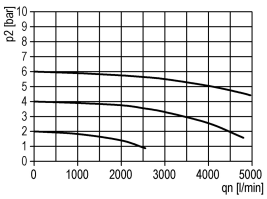
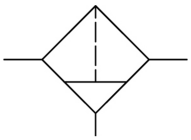


Image shows:
9.1133.00.050.0V

flow characteristic



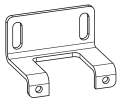
symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm

accessories



- mounting bracket: ZW.30

type	part-number	description
DF.33 HA3	9.1133.00.050.0V	Filter G1/2 5µm with PC bowl and semi automatic drain
DF.33 M HA3	9.1133.00.052.0V	Filter G1/2 5µm with metal bowl and semi automatic drain
DF.33 HA3 B	9.1133.00.053.0V	Filter G1/2 5µm with PC bowl, bowl guard and semi automatic drain
DF.33 AM10	9.1133.00.100.0V	Filter G1/2 5µm with PC bowl and automatic drain
DF.33 M AM10	9.1133.00.102.0V	Filter G1/2 5µm with metal bowl and automatic drain
DF.33 AM10 B	9.1133.00.103.0V	Filter G1/2 5µm with PC bowl, bowl guard and automatic drain

Filter | BG3

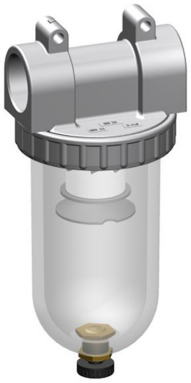


Image shows:
9.1134.00.050.0

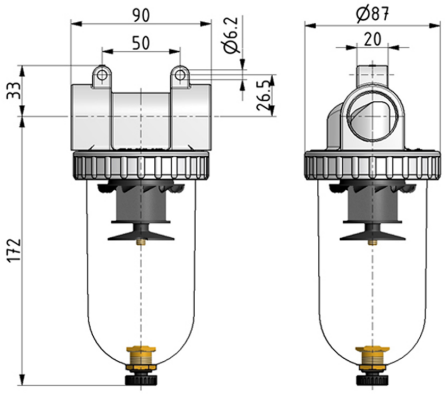
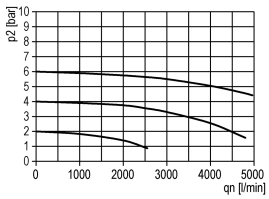
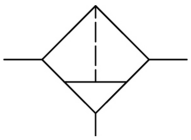


Image shows:
9.1134.00.050.0

flow characteristic



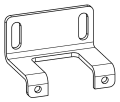
symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 5 µm

accessories



- mounting bracket: ZW.30

type	part-number	description
DF.34 HA3	9.1134.00.050.0	Filter G3/4 5µm with PC bowl and semi automatic drain
DF.34 M HA3	9.1134.00.052.0	Filter G3/4 5µm with metal bowl and semi automatic drain
DF.34 HA3 B	9.1134.00.053.0	Filter G3/4 5µm with PC bowl, bowl guard and semi automatic drain
DF.34 AM10	9.1134.00.100.0	Filter G3/4 5µm with PC bowl and automatic drain
DF.34 M AM10	9.1134.00.102.0V	Filter G3/4 5µm with metal bowl and automatic drain
DF.34 AM10 B	9.1134.00.103.0	Filter G3/4 5µm with PC bowl, bowl guard and automatic drain
DF.35 HA3	9.1135.00.050.0V	Filter G1 5µm with PC bowl and semi automatic drain
DF.35 M HA3	9.1135.00.052.0	Filter G1 5µm with metal bowl and semi automatic drain
DF.35 HA3 B	9.1135.00.053.0	Filter G1 5µm with PC bowl, bowl guard and semi automatic drain
DF.35 AM10	9.1135.00.100.0V	Filter G1 5µm with PC bowl and automatic drain
DF.35 M AM10	9.1135.00.102.0	Filter G1 5µm with metal bowl and automatic drain
DF.35 AM10 B	9.1135.00.103.0	Filter G1 5µm with PC bowl, bowl guard and automatic drain

Filter | BG5



Image shows:
9.1154.00.350.0V

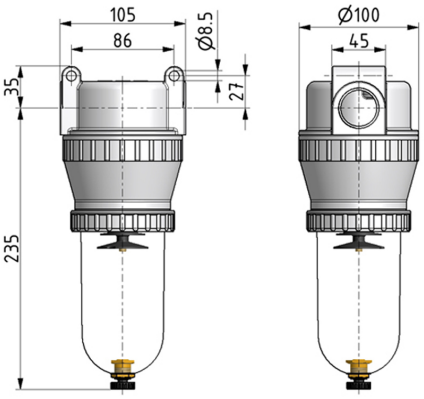
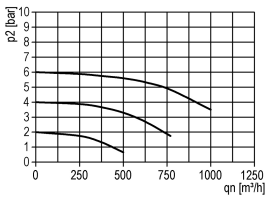
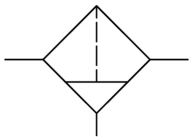


Image shows:
9.1154.00.350.0V

flow characteristic



symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm

accessories

type	part-number	description
DF.54 HA3	9.1154.00.350.0V	Filter G3/4 40µm with PC bowl and semi automatic drain
DF.54 M HA3	9.1154.00.352.0V	Filter G3/4 40µm with metal bowl and semi automatic drain
DF.54 HA3 B	9.1154.00.353.0V	Filter G3/4 40µm with PC bowl, bowl guard and semi automatic drain
DF.54 AM10	9.1154.00.400.0V	Filter G3/4 40µm with PC bowl and automatic drain
DF.54 M AM10	9.1154.00.402.0	Filter G3/4 40µm with metal bowl and automatic drain
DF.54 AM10 B	9.1154.00.403.0V	Filter G3/4 40µm with PC bowl, bowl guard and automatic drain
DF.55 HA3	9.1155.00.350.0V	Filter G1 40µm with PC bowl and semi automatic drain
DF.55 M HA3	9.1155.00.352.0V	Filter G1 40µm with metal bowl and semi automatic drain
DF.55 HA3 B	9.1155.00.353.0V	Filter G1 40µm with PC bowl, bowl guard and semi automatic drain
DF.55 AM10	9.1155.00.400.0V	Filter G1 40µm with PC bowl and automatic drain
DF.55 M AM10	9.1155.00.402.0	Filter G1 40µm with metal bowl and automatic drain
DF.55 AM10 B	9.1155.00.403.0V	Filter G1 40µm with PC bowl, bowl guard and automatic drain

Filter | BG5

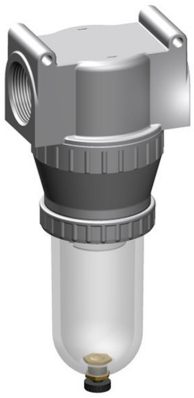


Image shows:
9.1156.00.350.0

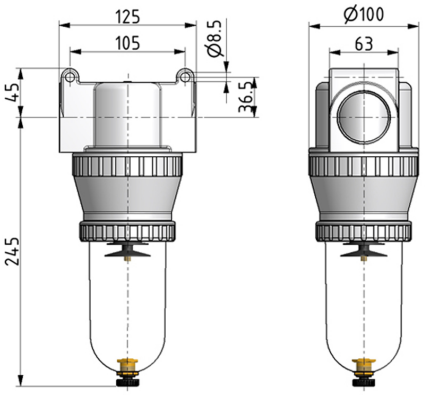
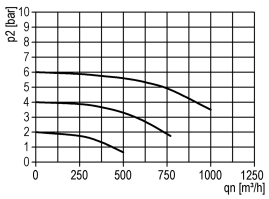
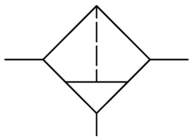


Image shows:
9.1156.00.350.0

flow characteristic



symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 40 µm

accessories

type	part-number	description
DF.56 HA3	9.1156.00.350.0	Filter G1 1/4 40µm with PC bowl and semi automatic drain
DF.56 M HA3	9.1156.00.352.0	Filter G1 1/4 40µm with metal bowl and semi automatic drain
DF.56 HA3 B	9.1156.00.353.0	Filter G1 1/4 40µm with PC bowl, bowl guard and semi automatic drain
DF.56 AM10	9.1156.00.400.0	Filter G1 1/4 40µm with PC bowl and automatic drain
DF.56 M AM10	9.1156.00.402.0	Filter G1 1/4 40µm with metal bowl and automatic drain
DF.56 AM10 B	9.1156.00.403.0	Filter G1 1/4 40µm with PC bowl, bowl guard and automatic drain
DF.57 HA3	9.1157.00.350.0V	Filter G1 1/2 40µm with PC bowl and semi automatic drain
DF.57 M HA3	9.1157.00.352.0	Filter G1 1/2 40µm with metal bowl and semi automatic drain
DF.57 HA3 B	9.1157.00.353.0	Filter G1 1/2 40µm with PC bowl, bowl guard and semi automatic drain
DF.57 AM10	9.1157.00.400.0	Filter G1 1/2 40µm with PC bowl and automatic drain
DF.57 M AM10	9.1157.00.402.0	Filter G1 1/2 40µm with metal bowl and automatic drain
DF.57 AM10 B	9.1157.00.403.0	Filter G1 1/2 40µm with PC bowl, bowl guard and automatic drain

Filter | BG8



Image shows:
9.1186.00.350.0V

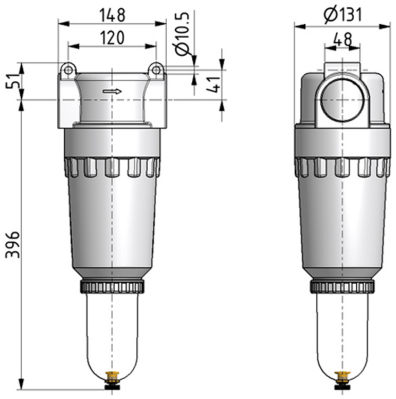
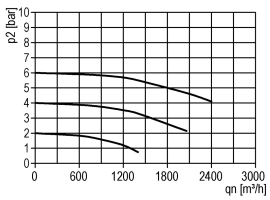
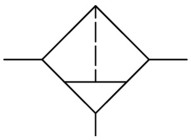


Image shows:
9.1186.00.350.0V

flow characteristic



symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **mounting:** vertical
- **filter element:** 60 µm

accessories

type	part-number	description
DF.86 HA3	9.1186.00.350.0V	Filter G1 1/4 60µm with PC bowl and semi automatic drain
DF.86 M HA3	9.1186.00.352.0V	Filter G1 1/4 60µm with metal bowl and semi automatic drain
DF.86 HA3 B	9.1186.00.353.0V	Filter G1 1/4 60µm with PC bowl, bowl guard and semi automatic drain
DF.86 AM10	9.1186.00.400.0V	Filter G1 1/4 60µm with PC bowl and automatic drain
DF.86 M AM10	9.1186.00.402.0V	Filter G1 1/4 60µm with metal bowl and automatic drain
DF.86 AM10 B	9.1186.00.403.0V	Filter G1 1/4 60µm with PC bowl, bowl guard and automatic drain
DF.87 HA3	9.1187.00.350.0	Filter G1 1/2 60µm with PC bowl and semi automatic drain
DF.87 M HA3	9.1187.00.352.0	Filter G1 1/2 60µm with metal bowl and semi automatic drain
DF.87 HA3 B	9.1187.00.353.0	Filter G1 1/2 60µm with PC bowl, bowl guard and semi automatic drain
DF.87 AM10	9.1187.00.400.0	Filter G1 1/2 60µm with PC bowl and automatic drain
DF.87 M AM10	9.1187.00.402.0	Filter G1 1/2 60µm with metal bowl and automatic drain
DF.87 AM10 B	9.1187.00.403.0	Filter G1 1/2 60µm with PC bowl, bowl guard and automatic drain
DF.88 HA3	9.1188.00.350.0	Filter G2 60µm with PC bowl and semi automatic drain
DF.88 M HA3	9.1188.00.352.0	Filter G2 60µm with metal bowl and semi automatic drain
DF.88 HA3 B	9.1188.00.353.0	Filter G2 60µm with PC bowl, bowl guard and semi automatic drain
DF.88 AM10	9.1188.00.400.0	Filter G2 60µm with PC bowl and automatic drain
DF.88 M AM10	9.1188.00.402.0	Filter G2 60µm with metal bowl and automatic drain
DF.88 AM10 B	9.1188.00.403.0	Filter G2 60µm with PC bowl, bowl guard and automatic drain

Filter | BG9



Image shows:
9.1198.00.102.0

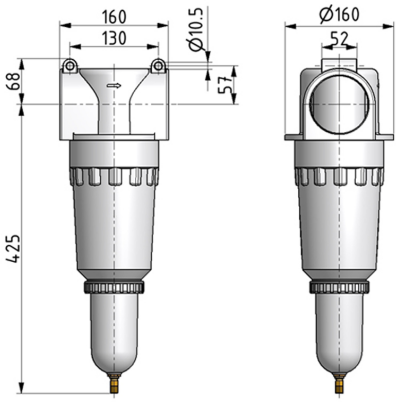
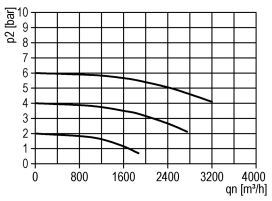
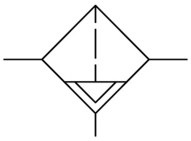


Image shows:
9.1198.00.102.0

flow characteristic



symbol



technical data

- **description:** sinter filter centrifugal principle
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 8 µm

accessories

type	part-number	description
DF.98 M AM10	9.1198.00.102.0	Filter G2 1/2 8µm with metal bowl and automatic drain
DF.98 AM10 B	9.1198.00.103.0	Filter G2 1/2 8µm with PC bowl, bowl guard and automatic drain
DF.98 HA3	9.1198.00.350.0	Filter G2 1/2 60µm with PC bowl and semi automatic drain
DF.98 M HA3	9.1198.00.352.0	Filter G2 1/2 60µm with metal bowl and semi automatic drain
DF.98 HA3 B	9.1198.00.353.0	Filter G2 1/2 60µm with PC bowl, bowl guard and semi automatic drain
DF.98 AM10	9.1198.00.400.0	Filter G2 1/2 60µm with PC bowl and automatic drain
DF.99 HA3	9.1199.00.350.0	Filter G3 60µm with PC bowl and semi automatic drain
DF.99 M HA3	9.1199.00.352.0	Filter G3 60µm with metal bowl and semi automatic drain
DF.99 HA3 B	9.1199.00.353.0	Filter G3 60µm with PC bowl, bowl guard and semi automatic drain
DF.99 AM10	9.1199.00.400.0	Filter G3 60µm with PC bowl and automatic drain
DF.99 M AM10	9.1199.00.402.0	Filter G3 60µm with metal bowl and automatic drain
DF.99 AM10 B	9.1199.00.403.0	Filter G3 60µm with PC bowl, bowl guard and automatic drain

Prefilter | BG3



Image shows:
9.1133.00.914.0

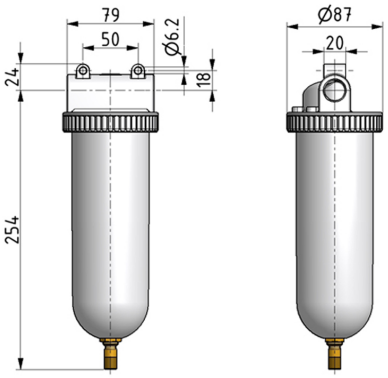
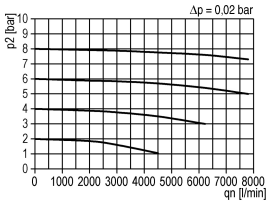
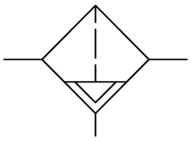


Image shows:
9.1133.00.914.0

flow characteristic



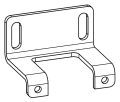
symbol



technical data

- **description:** prefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,3 µm
- **particle separation:** > 0,3 µm 99,999%

accessories



- mounting bracket: ZW.30

type	part-number	description
DFV.33 M AM10	9.1133.00.914.0	Prefilter G1/2 0,3µm with metal bowl and automatic drain

Prefilter | BG5



Image shows:
9.1155.00.908.0

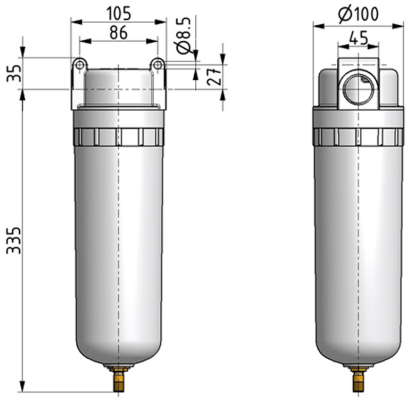
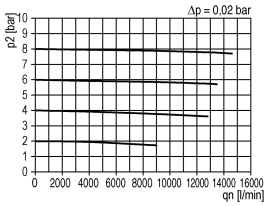
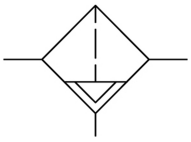


Image shows:
9.1155.00.908.0

flow characteristic



symbol



technical data

- **description:** prefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,3 µm
- **particle separation:** > 0,3 µm 99,999%

accessories

type	part-number	description
DFV.55 M AM10	9.1155.00.908.0	Prefilter G1 0,3µm with metal bowl and automatic drain

Prefilter | BG8



Image shows:
9.1187.00.914.0

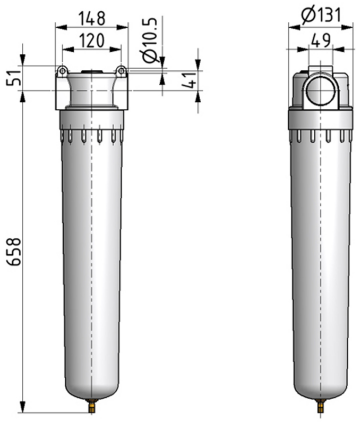
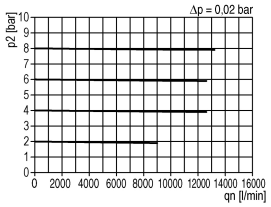
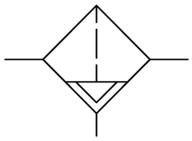


Image shows:
9.1187.00.914.0

flow characteristic



symbol



technical data

- **description:** prefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,3 µm
- **particle separation:** > 0,3 µm 99,999%

accessories



- **differential pressure gauge:** DM 2

type	part-number	description
DFV.87 M AM10	9.1187.00.914.0	Prefilter G1 1/2 0,3µm with metal bowl and automatic drain

Prefilter | BG8



Image shows:
9.1188.00.914.0

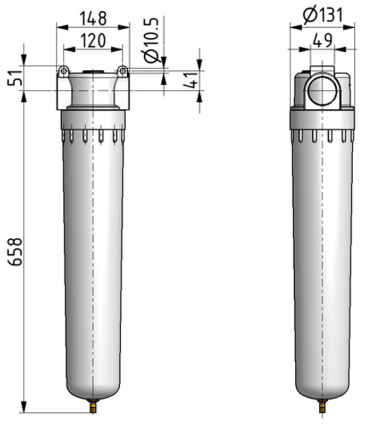
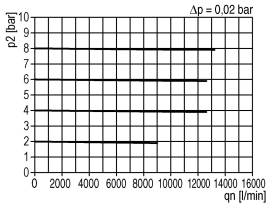
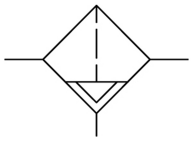


Image shows:
9.1188.00.914.0

flow characteristic



symbol



technical data

- **description:** prefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,3 µm
- **particle separation:** > 0,3 µm 99,999%

accessories



- **differential pressure gauge:** DM 2

type	part-number	description
DFV.88 M AM10	9.1188.00.914.0	Prefilter G2 0,3µm with metal bowl and automatic drain

Finefilter | BG3



Image shows:
9.1133.00.952.0

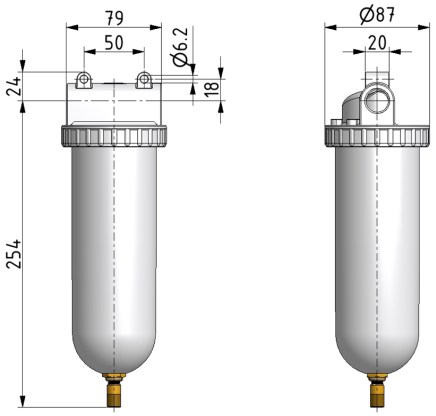
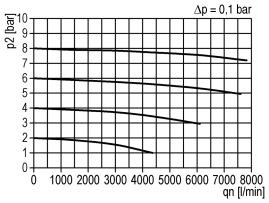
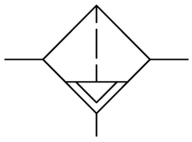


Image shows:
9.1133.00.952.0

flow characteristic



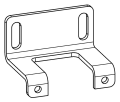
symbol



technical data

- **description:** finefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,01 µm
- **particle separation:** > 0,01 µm 99,999%
- **residual oil concent:** 0,01 mg/m³

accessories



- mounting bracket: ZW.30

type	part-number	description
DFX.33 M AM10	9.1133.00.952.0	Finefilter G1/2 0,01µm with metal bowl and automatic drain

Finefilter | BG5



Image shows:
9.1155.00.952.0

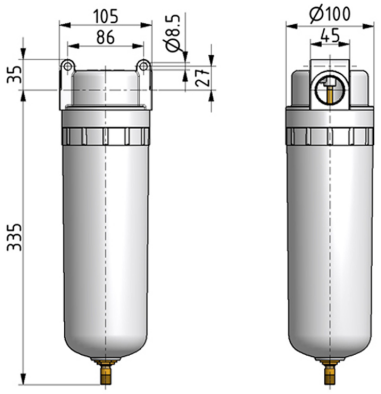
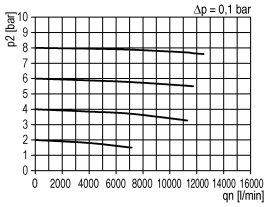
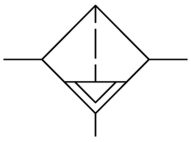


Image shows:
9.1155.00.952.0

flow characteristic



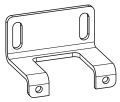
symbol



technical data

- **description:** finefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,01 µm
- **particle separation:** > 0,01 µm 99,999%
- **residual oil concent:** 0,01 mg/m³

accessories



- **mounting bracket:** ZW.30

type	part-number	description
DFX.55 M AM10	9.1155.00.952.0	Finefilter G1 0,01µm with metal bowl and automatic drain

Finefilter | BG8



Image shows:
9.1187.00.938.0

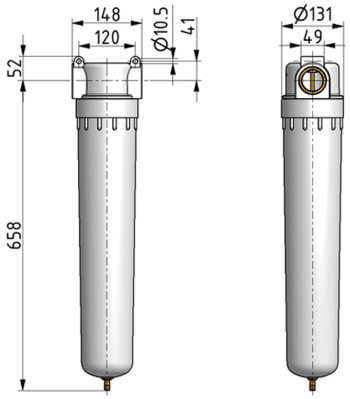
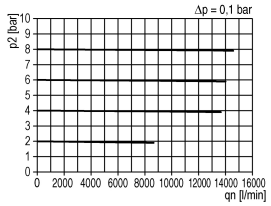
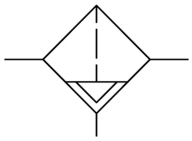


Image shows:
9.1187.00.938.0

flow characteristic



symbol



technical data

- **description:** finefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,01 µm
- **particle separation:** > 0,01 µm 99,999%
- **residual oil concent:** 0,01 mg/m³

accessories



- **differential pressure gauge:** DM 2

type	part-number	description
DFX.87 M AM10	9.1187.00.938.0	Finefilter G1 1/2 0,01µm with metal bowl and automatic drain

Finefilter | BG8



Image shows:
9.1188.00.952.0

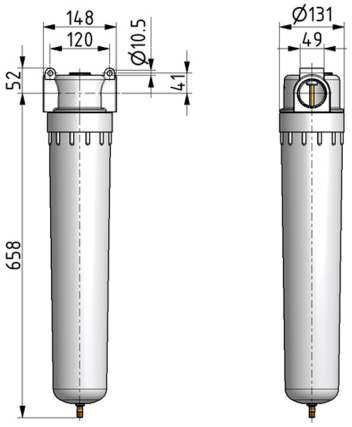
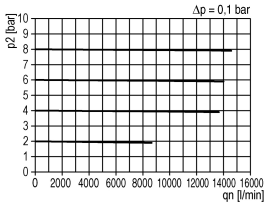
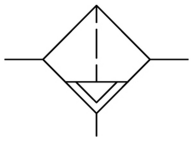


Image shows:
9.1188.00.952.0

flow characteristic



symbol



technical data

- **description:** finefilter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **mounting:** vertical
- **filter element:** 0,01 µm
- **particle separation:** > 0,01 µm 99,999%
- **residual oil concent:** 0,01 mg/m³

accessories



- **differential pressure gauge:** DM 2

type	part-number	description
DFX.88 M AM10	9.1188.00.952.0	Finefilter G2 0,01µm with metal bowl and automatic drain

Active carbon filter | BG3



Image shows:
9.1133.00.974.0

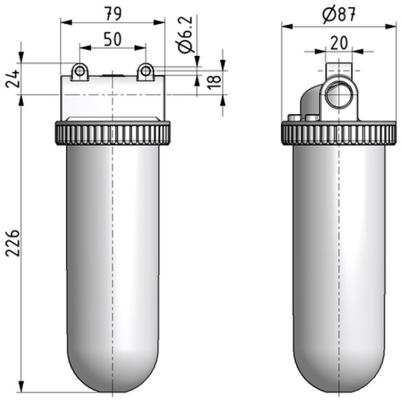
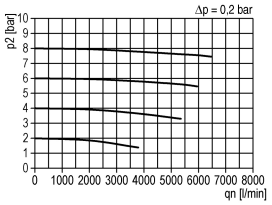
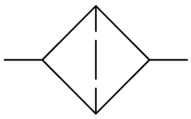


Image shows:
9.1133.00.974.0

flow characteristic



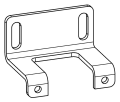
symbol



technical data

- **description:** active carbon filter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **mounting:** vertical
- **residual oil concent:** 0,005 mg/m³

accessories



- mounting bracket: ZW.30

type	part-number	description
DFA.33 M	9.1133.00.974.0	Activated carbon filter G1/2 with metal bowl

Active carbon filter | BG5



Image shows:
9.1155.00.974.0V

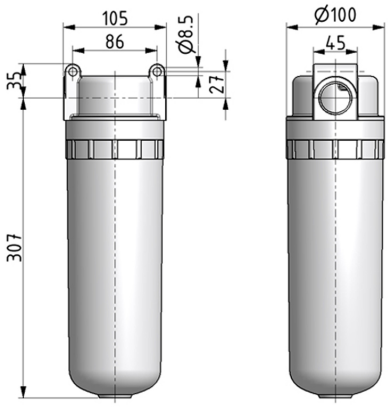
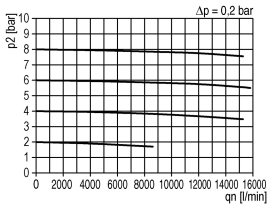
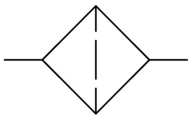


Image shows:
9.1155.00.974.0V

flow characteristic



symbol



technical data

- **description:** active carbon filter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **mounting:** vertical
- **residual oil concent:** 0,005 mg/m³

accessories

type	part-number	description
DFA.55 M	9.1155.00.974.0V	Activated carbon filter G 1 with metal bowl

Active carbon filter | BG8



Image shows:
9.1187.00.974.0

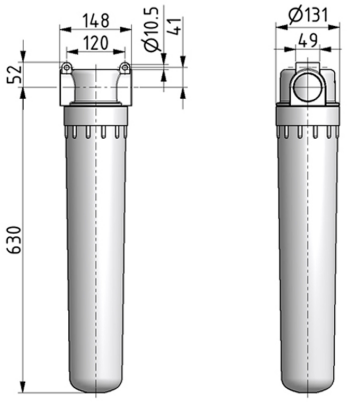
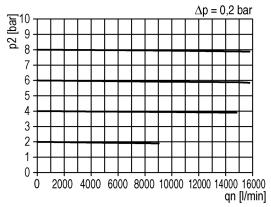
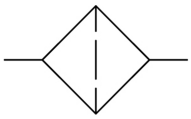


Image shows:
9.1187.00.974.0

flow characteristic



symbol



technical data

- **description:** active carbon filter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 20 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **mounting:** vertical
- **residual oil concent:** 0,005 mg/m³

accessories

type	part-number	description
DFA.87 M	9.1187.00.974.0	Activated carbon filter G1 1/2 with metal bowl

Active carbon filter | BG8



Image shows:
9.1188.00.974.0

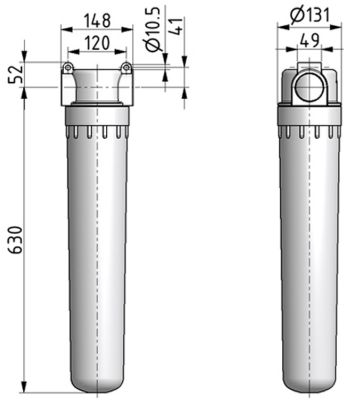
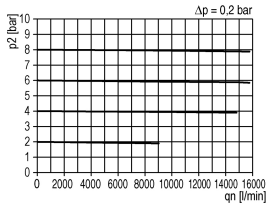
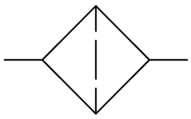


Image shows:
9.1188.00.974.0

flow characteristic



symbol



technical data

- **description:** active carbon filter
- **medium:** compressed air, neutral gases
- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 20 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **mounting:** vertical
- **residual oil concent:** 0,005 mg/m³

accessories

type	part-number	description
DFA.88 M	9.1188.00.974.0	Activated carbon filter G2 with metal bowl

Pressure regulator | M5



Image shows:
9.15M5.00.001

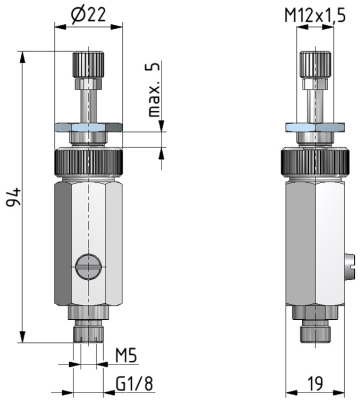
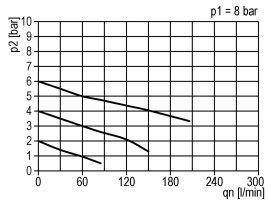
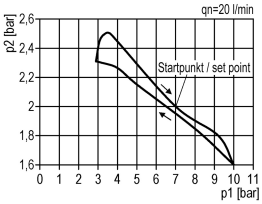


Image shows:
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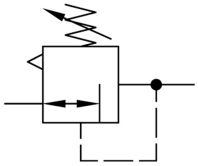
flow characteristic



pressure characteristic



symbol



technical data

- **description:** plunger regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **control panel nut:** control panel nut

accessories

type	part-number	description
DR.M5 S	9.15M5.00.001	Pressure regulator M5 0-8,5 with panel mounting ring

Pressure regulator | BG0

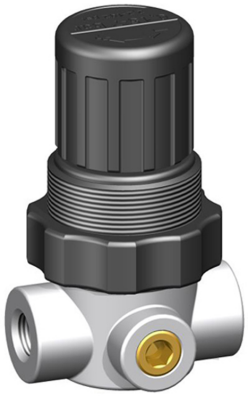


Image shows:
9.1500.00.750/V

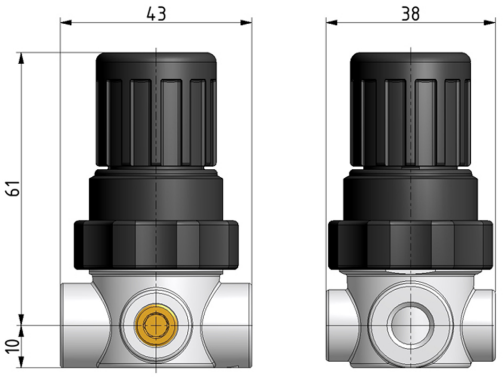
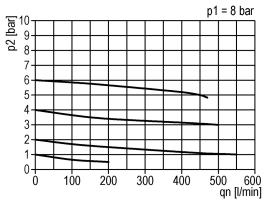
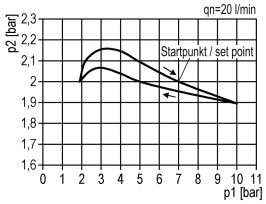


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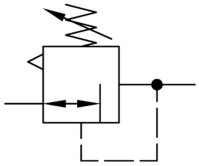
flow characteristic



pressure characteristic



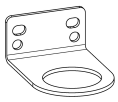
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
DR.022-00	9.1500.00.750/V	Pressure regulator G1/8 0,5-10 (2xVST)
DR.022-01	9.1501.00.750/V	Pressure regulator G1/4 0,5-10 (2xVST)

Pressure regulator | BG0



Image shows:
9.1600.00.102/V

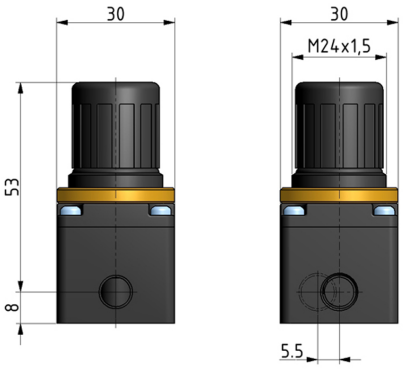
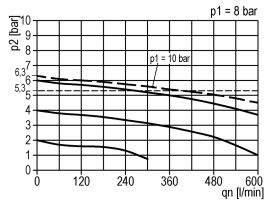
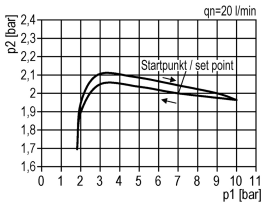


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9.1600.00.102/V

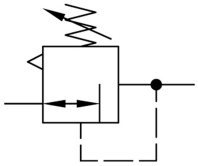
flow characteristic



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, medical oxygen, NO2 (nitrous oxide)
- **supply pressure P1 max.:** 10 bar
- **temperature range:** 0 - 60°C
- **control panel nut:** control panel nut

accessories

type	part-number	description
KDR.00 mO S	9.1600.00.102/V	Pressure regulator 30x30 G1/8 0,2-8 for medical oxygen with panel mounting ring and black galvanized gauge plug in the rear port

Pressure regulator 30x30 flange | BG0



Image shows:
9.160X.00.103/V

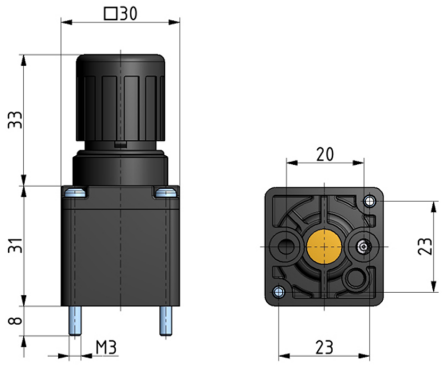
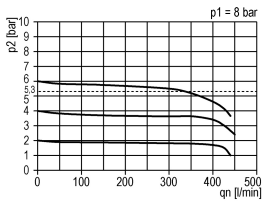
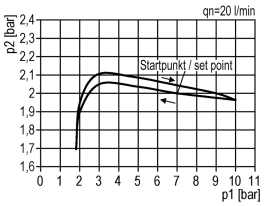


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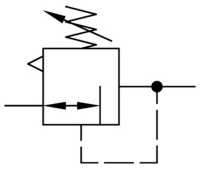
flow characteristic



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, cartridge regulation, flange mounting
- **medium:** compressed air, medical oxygen, NO2 (nitrous oxide)
- **supply pressure P1 max.:** 10 bar
- **temperature range:** 0 - 60°C

accessories

type	part-number	description
KDR.FL mO	9.160X.00.103/V	Pressure regulator 30x30 flange mounting 0,2-8 for medical oxygen with cartridge regulation and relieving feature

Pressure regulator | BG0



Image shows:
9.1500.00.000.0V

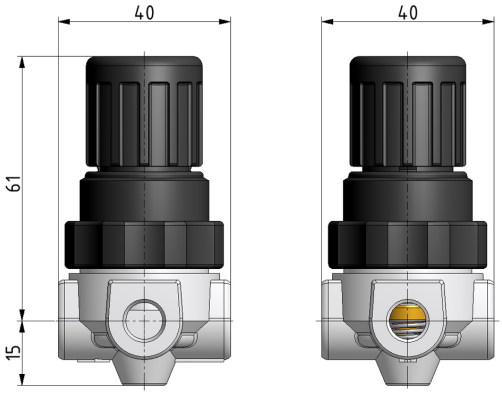
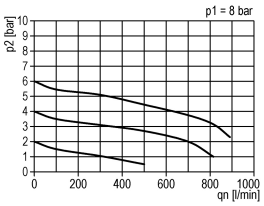
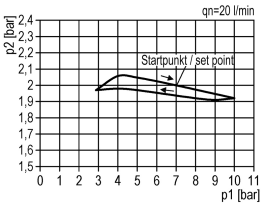


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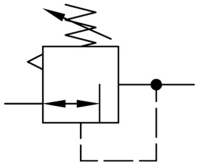
flow characteristic



pressure characteristic



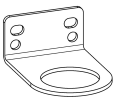
symbol



technical data

- description: air line regulator with diaphragm and relieving feature
- medium: compressed air, neutral gases
- supply pressure P1 max.: 25 bar
- temperature range: 0 - 60°C

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
DR.00	9.1500.00.000.0V	Pressure regulator G1/8 0,5-10

Pressure regulator | BG1



Image shows:
9.1511.00.000.0V

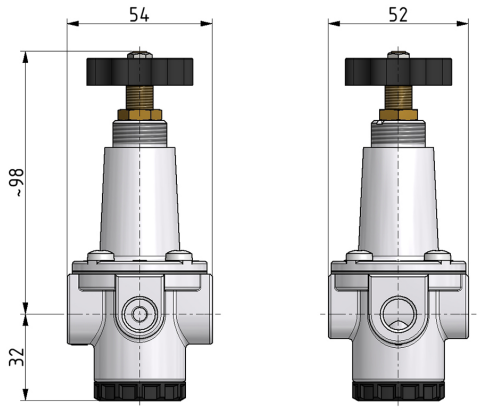
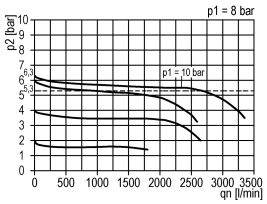
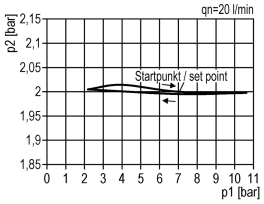


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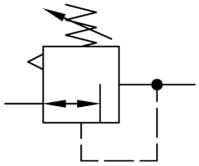
flow characteristic



pressure characteristic



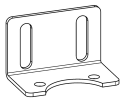
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- mounting bracket: BW.10



- control panel mounting: WH.M 20/DR.11-7

type	part-number	description
DR.11	9.1511.00.000.0V	Pressure regulator G1/4 0,5-10
DR.12	9.1512.00.000.0V	Pressure regulator G3/8 0,5-10

Pressure regulator | BG2

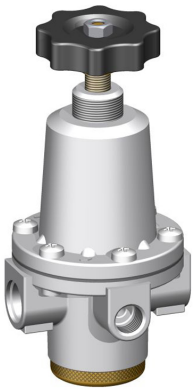


Image shows:
9.1522.00.000.0V

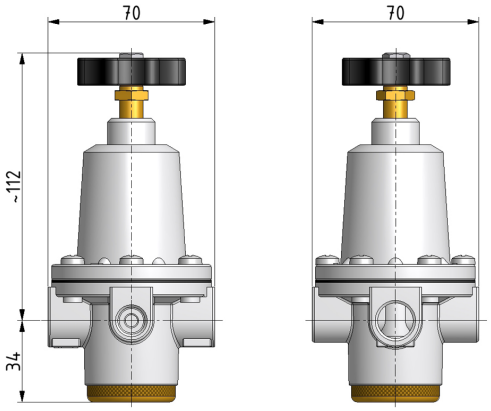
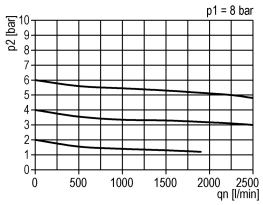
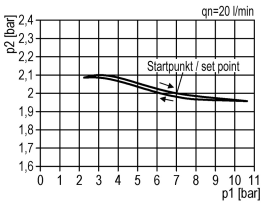


Image shows:
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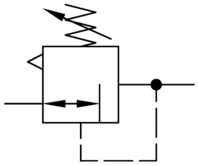
flow characteristic



pressure characteristic



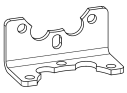
symbol



technical data

- description: air line regulator with diaphragm and relieving feature
- medium: compressed air, neutral gases
- supply pressure P1 max.: 25 bar
- temperature range: 0 - 60°C

accessories



- mounting bracket: BW.20



- control panel mounting: WH.M 20/DR.11-7

type	part-number	description
DR.22	9.1522.00.000.0V	Pressure regulator G3/8 0,5-10
DR.23	9.1523.00.000.0V	Pressure regulator G1/2 0,5-10

Pressure regulator | BG3



Image shows:
9.1533.00.000.0V

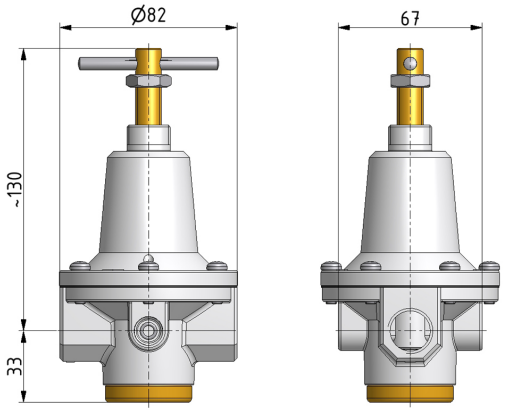
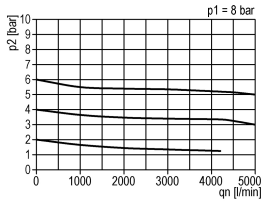
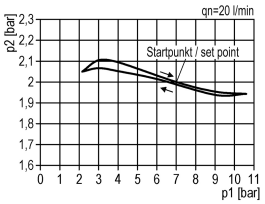


Image shows:
9.1533.00.000.0V

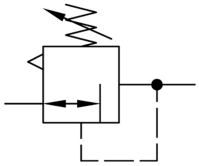
flow characteristic



pressure characteristic



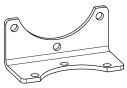
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
DR.33	9.1533.00.000.0V	Pressure regulator G1/2 0,5-10

Pressure regulator | BG3

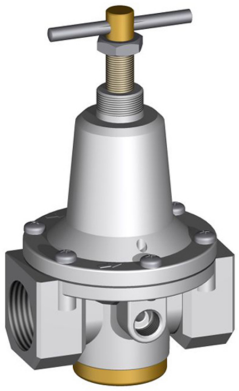


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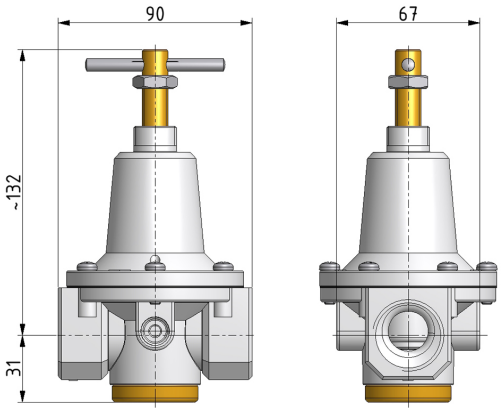
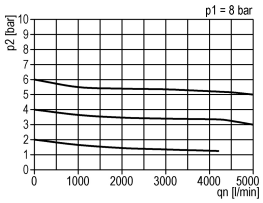
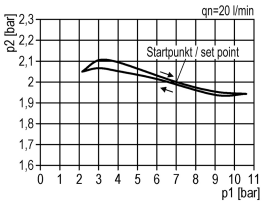


Image shows:
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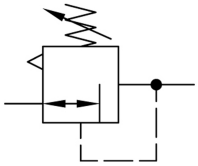
flow characteristic



pressure characteristic



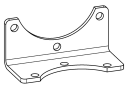
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
DR.34	9.1534.00.000.0V	Pressure regulator G3/4 0,5-10
DR.35	9.1535.00.000.0V	Pressure regulator G1 0,5-10

Pressure regulator | BG5



Image shows:
9.1554.00.000.0

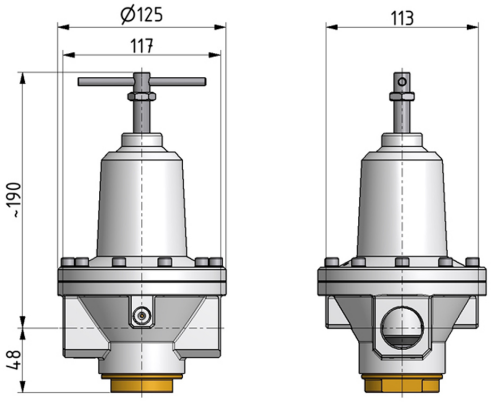
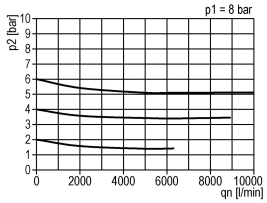
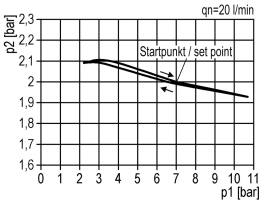


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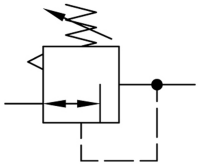
flow characteristic



pressure characteristic



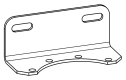
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- **mounting bracket:** BW.50

type	part-number	description
DR.54	9.1554.00.000.0	Pressure regulator G3/4 0,5-10
DR.55	9.1555.00.000.0	Pressure regulator G1 0,5-10

Pressure regulator | BG7



Image shows:
9.1576.00.000.0

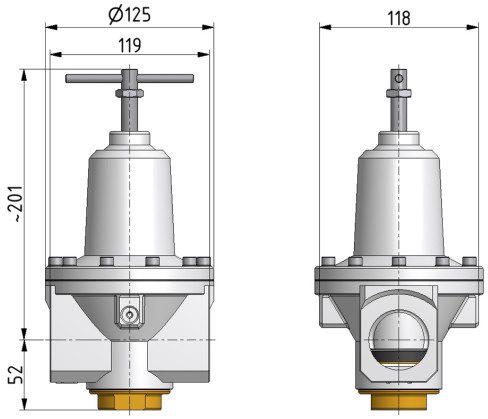
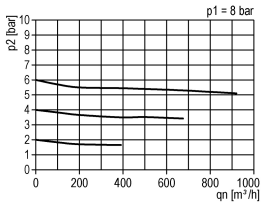
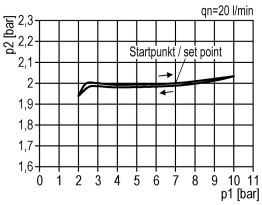


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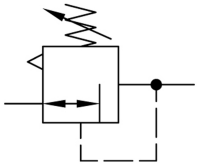
flow characteristic



pressure characteristic



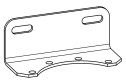
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- **mounting bracket:** BW.50

type	part-number	description
DR.76	9.1576.00.000.0	Pressure regulator G1 1/4 0,5-10
DR.77	9.1577.00.000.0	Pressure regulator G1 1/2 0,5-10

Pressure regulator pilot control | BG5



Image shows:
9.1554.00.200.0

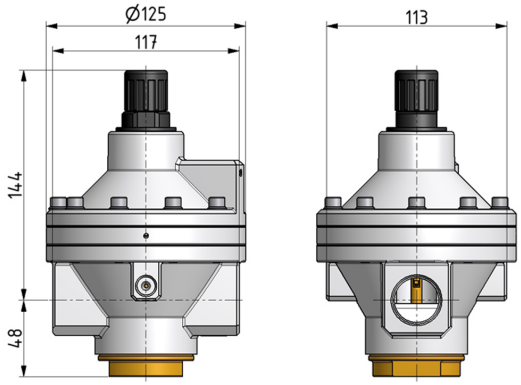
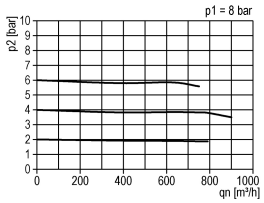
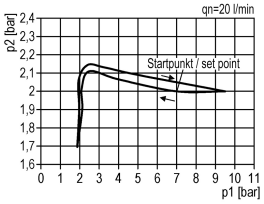


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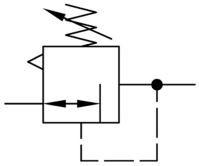
flow characteristic



pressure characteristic



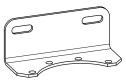
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pilot operated
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- mounting bracket: BW.50
- lockable setting knob possible

type	part-number	description
DRP.54	9.1554.00.200.0	Pressure regulator G3/4 0,5-10 pilot control
DRP.55	9.1555.00.200.0	Pressure regulator G1 0,5-10 pilot control

Pressure regulator pilot control | BG7



Image shows:
9.1576.00.200.0

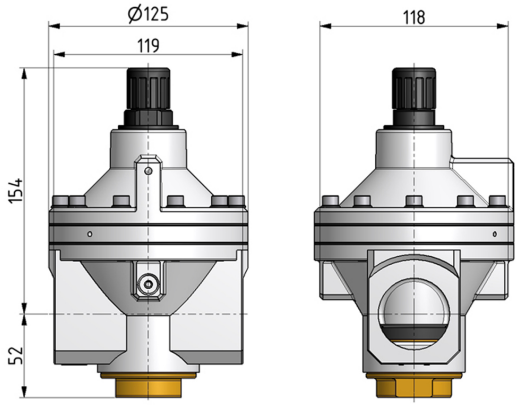
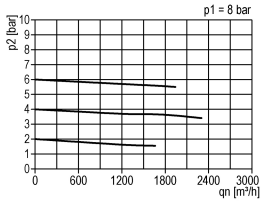
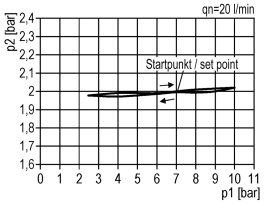


Image shows:
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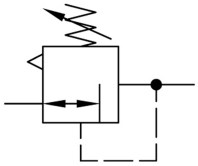
flow characteristic



pressure characteristic



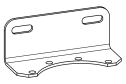
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pilot operated
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories



- mounting bracket: BW.50
- lockable setting knob possible

type	part-number	description
DRP.76	9.1576.00.200.0	Pressure regulator G1 1/4 0,5-10 pilot control
DRP.77	9.1577.00.200.0	Pressure regulator G1 1/2 0,5-10 pilot control

Pressure regulator pilot control | BG8

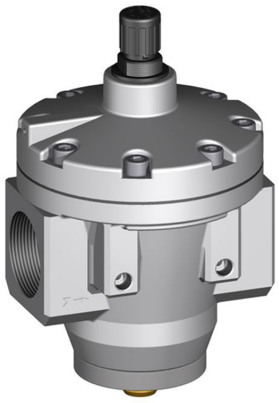


Image shows:
9.1587.00.200.0V

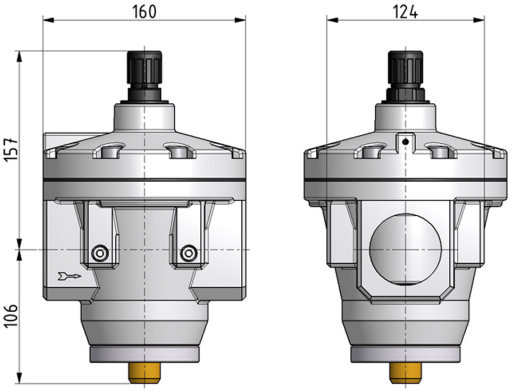
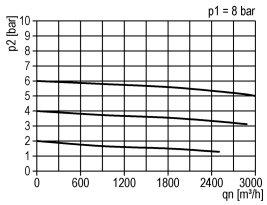
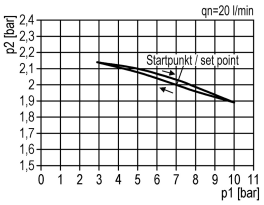


Image shows:
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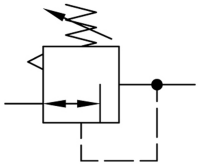
flow characteristic



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pilot operated
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C

accessories

- lockable setting knob possible

type	part-number	description
DRP.87	9.1587.00.200.0V	Pressure regulator G1 1/2 0,5-10 pilot control
DRP.88	9.1588.00.200.0V	Pressure regulator G2 0,5-10 pilot control

Pressure regulator pneumatic pilot operated | BG3

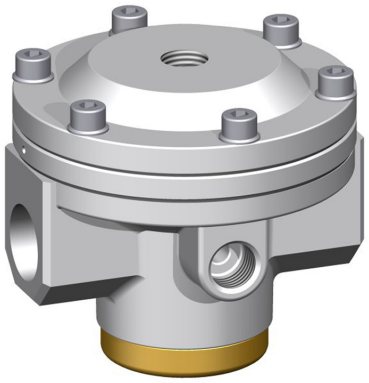


Image shows:
9.1533.00.100.0V

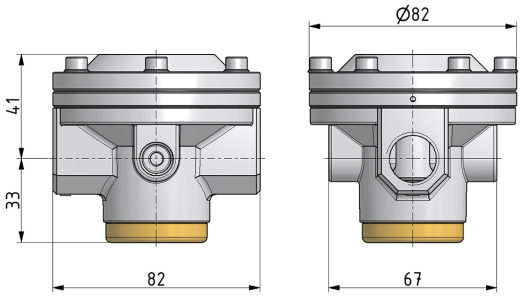
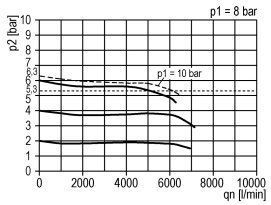
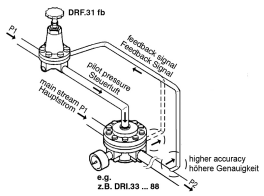


Image shows:
9.1533.00.100.0V

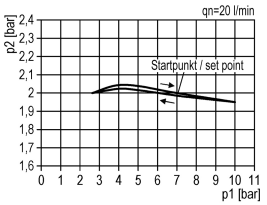
flow characteristic



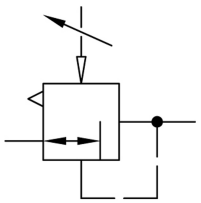
operating conditions



pressure characteristic



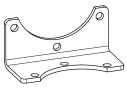
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pneumatic pilot-operated (1:1)
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 80°C

accessories



- mounting bracket: BW.30

type	part-number	description
DRI.33	9.1533.00.100.0V	Pressure regulator G1/2 pneumatic pilot operated (G1/4)

Pressure regulator pneumatic pilot operated | BG5

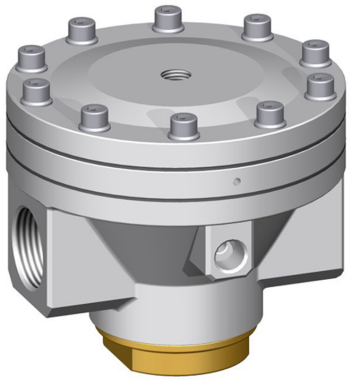


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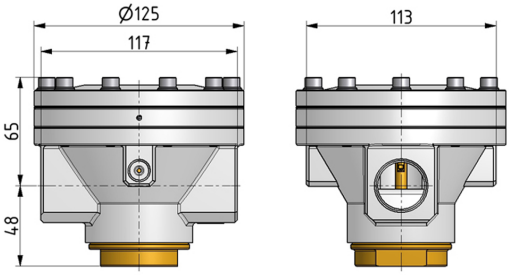
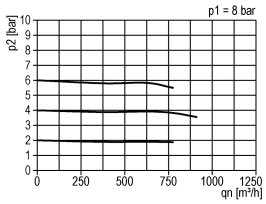
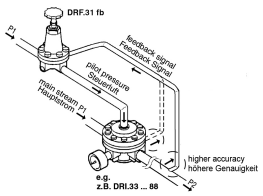


Image shows:
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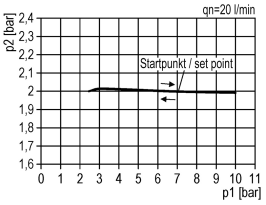
flow characteristic



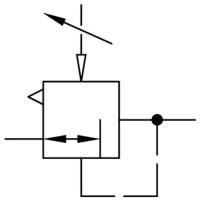
operating conditions



pressure characteristic



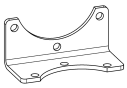
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pneumatic pilot-operated (1:1)
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 80°C

accessories



- **mounting bracket:** BW.30

type	part-number	description
DRI.54	9.1554.00.100.0	Pressure regulator G3/4 pneumatic pilot operated (G1/4)
DRI.55	9.1555.00.100.0	Pressure regulator G1 pneumatic pilot operated (G1/4)

Pressure regulator pneumatic pilot operated | BG7

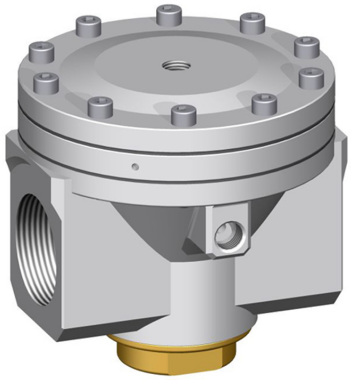


Image shows:
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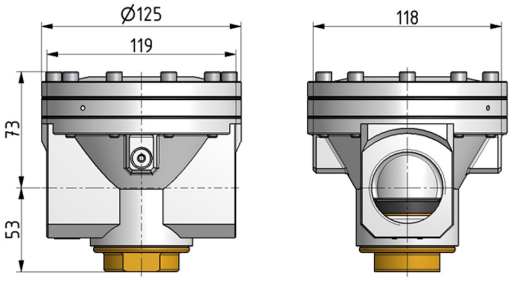
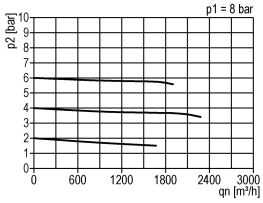
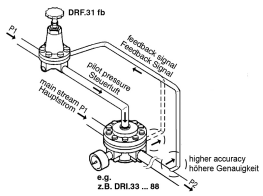


Image shows:
9.1576.00.100.0

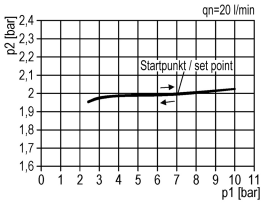
flow characteristic



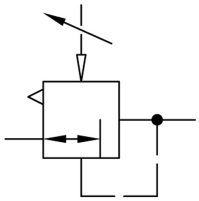
operating conditions



pressure characteristic



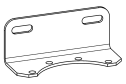
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pneumatic pilot-operated (1:1)
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 80°C

accessories



- mounting bracket: BW.50

type	part-number	description
DRI.76	9.1576.00.100.0	Pressure regulator G1 1/4 pneumatic pilot operated (G1/4)
DRI.77	9.1577.00.100.0	Pressure regulator G1 1/2 pneumatic pilot operated (G1/4)

Pressure regulator pneumatic pilot operated | BG8

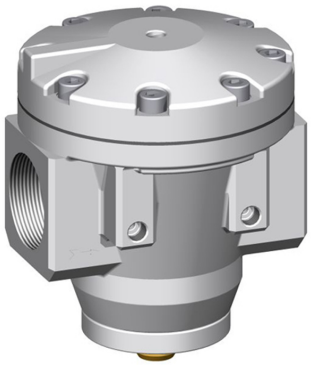


Image shows:
9.1587.00.100.0V

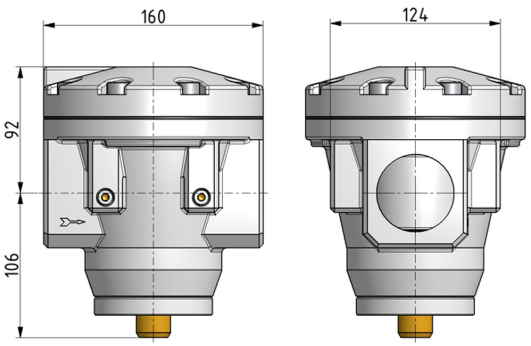
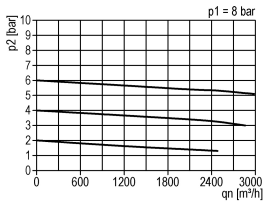
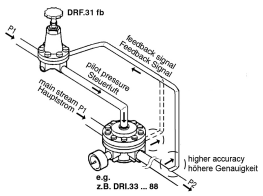


Image shows:
9.1587.00.100.0V

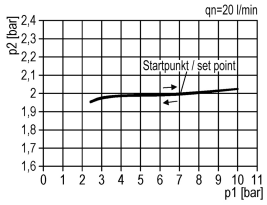
flow characteristic



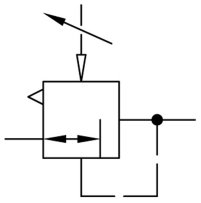
operating conditions



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pneumatic pilot-operated (1:1)
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 80°C

accessories

type	part-number	description
DRI.87	9.1587.00.100.0V	Pressure regulator G1 1/2 pneumatic pilot operated (G1/4)
DRI.88	9.1588.00.100.0V	Pressure regulator G2 pneumatic pilot operated (G1/4)

Pressure regulator for oxygen | BG0

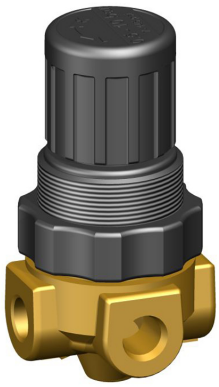


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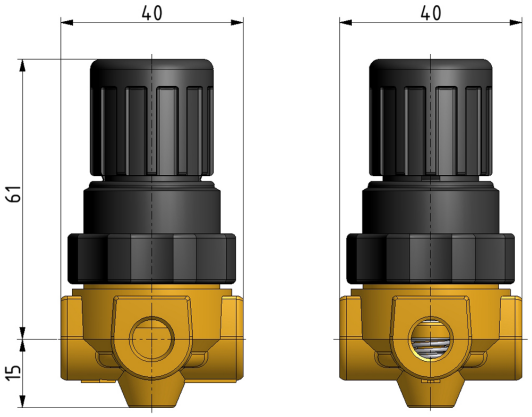
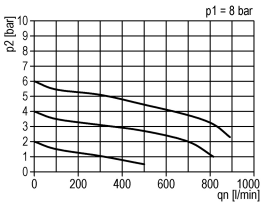
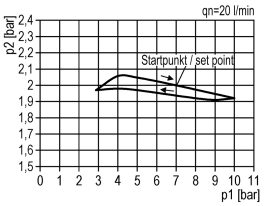


Image shows:
9.1600.00.002

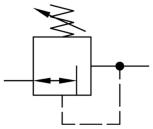
flow characteristic



pressure characteristic



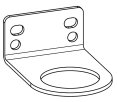
symbol



technical data

- **description:** air line regulator with diaphragm without relieving feature
- **medium:** compressed air, medical oxygen, NO2 (nitrous oxide)
- **supply pressure P1 max.:** 14 bar
- **temperature range:** 0 - 50°C

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
DR.00 mO	9.1600.00.002	Pressure regulator G1/8 0,5-10 for medical oxygen
DR.01 mO	9.1601.00.016	Pressure regulator G1/4 0,5-10 for medical oxygen

Pressure regulator for oxygen | BG3



Image shows:
9.1633.00.002

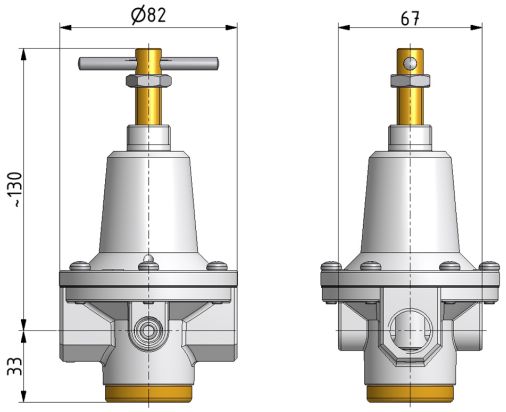
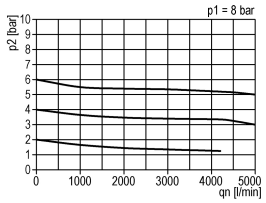
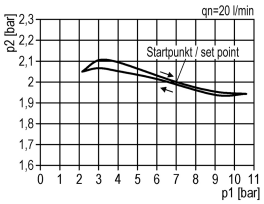


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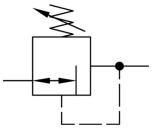
flow characteristic



pressure characteristic



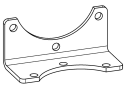
symbol



technical data

- **description:** air line regulator with diaphragm without relieving feature
- **medium:** compressed air, oxygen, non corrosive gases
- **supply pressure P1 max.:** 14 bar
- **temperature range:** 0 - 50°C

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
DR.33 O	9.1633.00.002	Pressure regulator G1/2 0,5-10 for oxygen, free from grease and oil

Pressure regulator for oxygen | BG5



Image shows:
9.1655.00.001.0

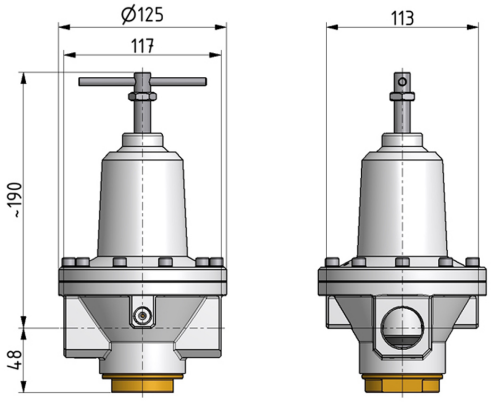
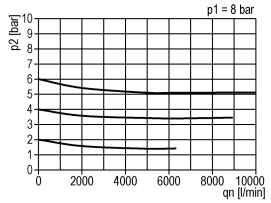
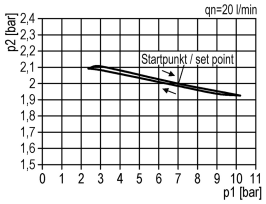


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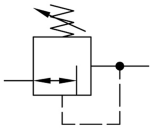
flow characteristic



pressure characteristic



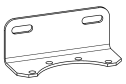
symbol



technical data

- **description:** air line regulator with diaphragm without relieving feature
- **medium:** compressed air, oxygen, non corrosive gases
- **supply pressure P1 max.:** 14 bar
- **temperature range:** 0 - 50°C

accessories



- mounting bracket: BW.50

type	part-number	description
DR.55 O	9.1655.00.001.0	Pressure regulator G1 0,5-10 for oxygen

Pressure regulator stainless steel | BG0

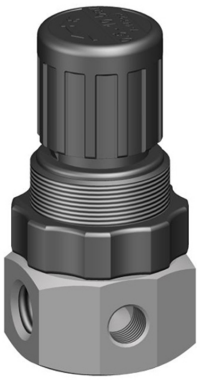


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9.1501.00.1000.V

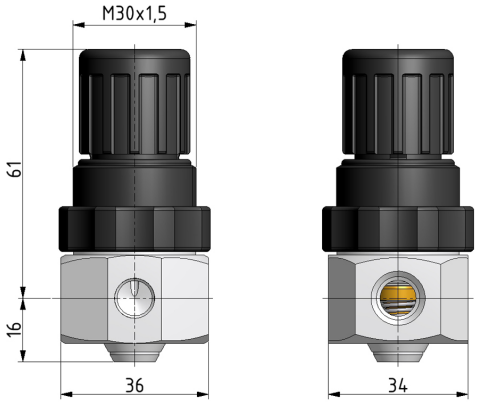
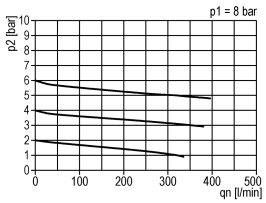
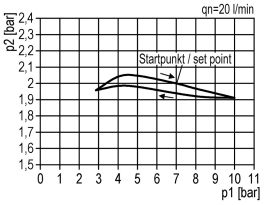


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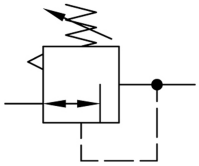
flow characteristic



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 80°C

accessories

- **control panel mounting:** nut C.00-34

type	part-number	description
XDR.01	9.1501.00.1000.V	Pressure regulator G1/4 0,5-10 stainless steel

Pressure regulator stainless steel | BG0

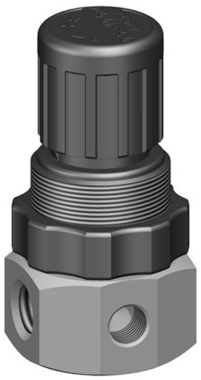


Image shows:
9.1501.00.1200.V

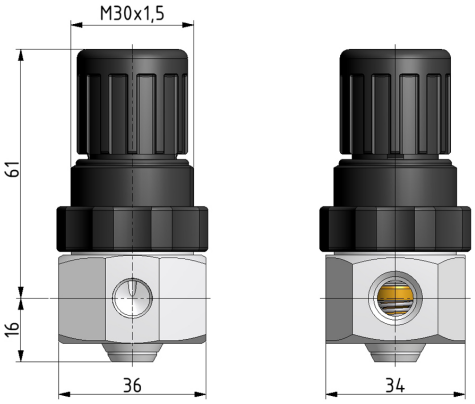
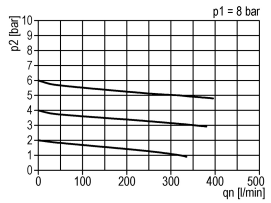
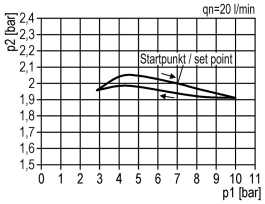


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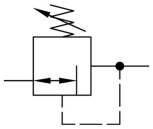
flow characteristic



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm without relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 80°C

accessories

- **control panel mounting:** nut C.00-34

type	part-number	description
XXDR.01	9.1501.00.1200.V	Pressure regulator G1/4 0,5-10 from stainless steel (V4A), Viton seals

Pressure regulator for water | BG0

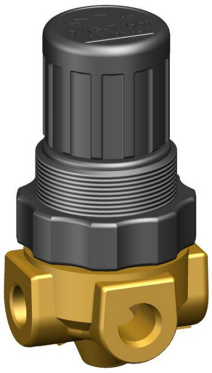


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9.1500.00.600.V

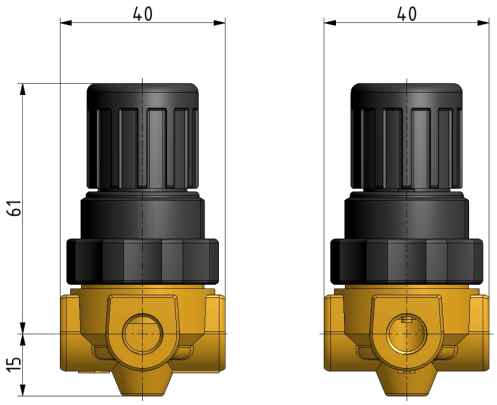
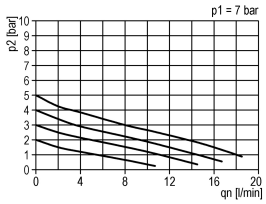
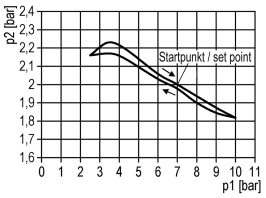


Image shows:
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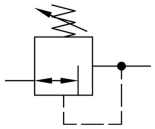
flow characteristic



pressure characteristic



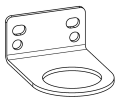
symbol



technical data

- **description:** air line regulator with diaphragm without relieving feature
- **medium:** water, neutral liquids
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 50°C

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
DR.021-00	9.1500.00.600.V	Pressure regulator G1/8 0,5-10 for water
DR.021-01	9.1501.00.600.V	Pressure regulator G1/4 0,5-10 for water

Pressure regulator for brake fluid | BG0

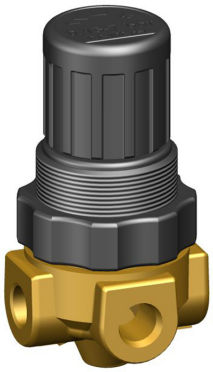


Image shows:
9.1600.00.038

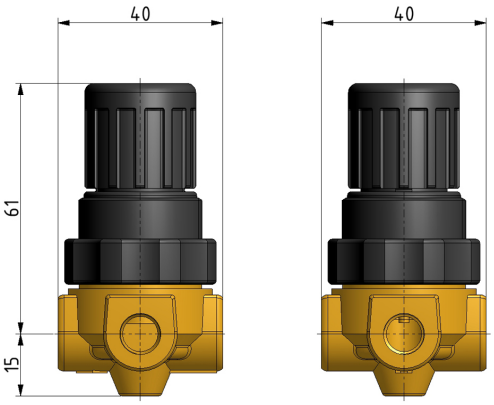
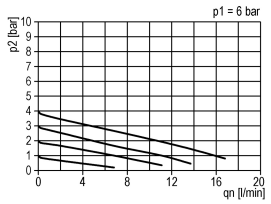
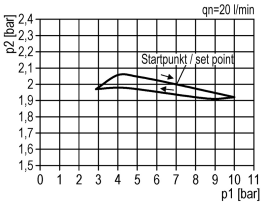


Image shows:
9.1600.00.038

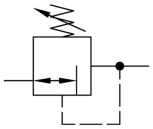
flow characteristic



pressure characteristic



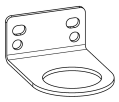
symbol



technical data

- **description:** air line regulator with diaphragm without relieving feature
- **medium:** brake fluid
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 50°C

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
DR.00 B	9.1600.00.038	Pressure regulator G1/8 0,5-10 for brake fluid (EPDM)
DR.01 B	9.1601.00.038	Pressure regulator G1/4 0,5-10 for brake fluid (EPDM)

Feedback regulator | BG3



Image shows:
9.6231.00.516.2V

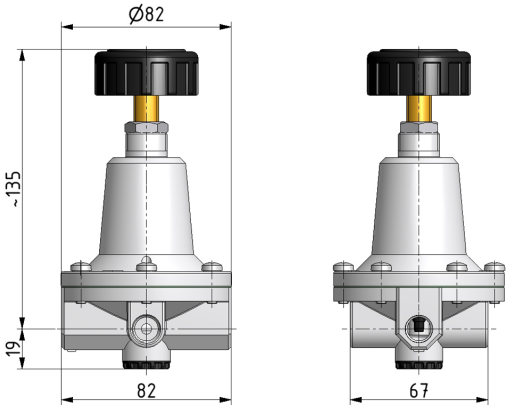
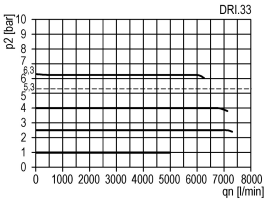
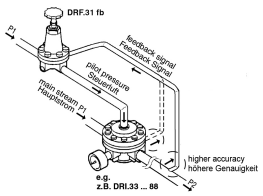


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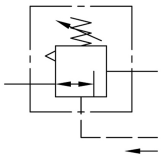
flow characteristic



operating conditions



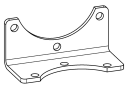
symbol



technical data

- **description:** air line regulator with diaphragm for feedback systems (e.g. together with DRI.33 ... 88)
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **air consumption:** 3 - 6 l/min

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
DRF.31 fb	9.6231.00.516.2V	Feedback regulator G1/4 0,2-7

Pressure regulator pilot control | BG3

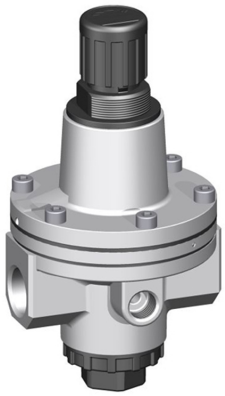


Image shows:
9.1532.00.200.0V

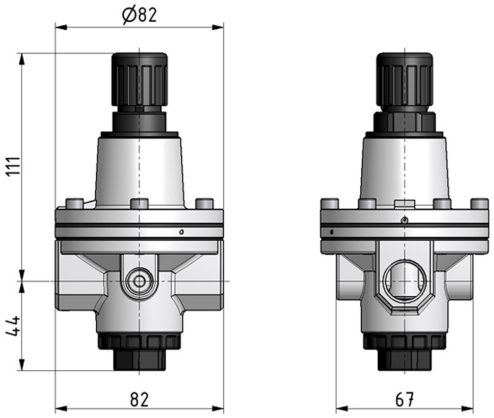
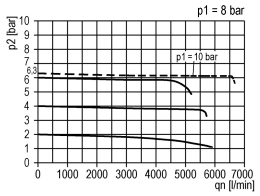
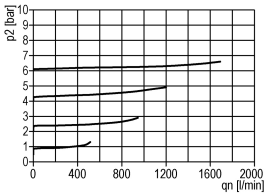


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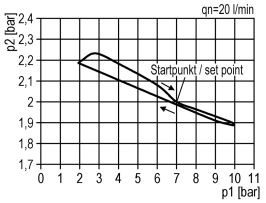
flow characteristic



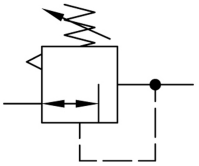
pressure characteristics



pressure characteristic



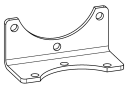
symbol



technical data

- **description:** air line regulator with diaphragm and high relieving feature, pilot operated
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **air consumption:** < 1 l/min at P2 6 bar

accessories



- mounting bracket: FDR.03-52

type	part-number	description
DRP.32 HR	9.1532.00.200.0V	Pressure regulator G3/8 0,5-10 pilot control
DRP.33 HR	9.1533.00.200.0V	Pressure regulator G1/2 0,5-10 pilot control

Precision pressure regulator | BG1



Image shows:
9.6211.00.000.0V

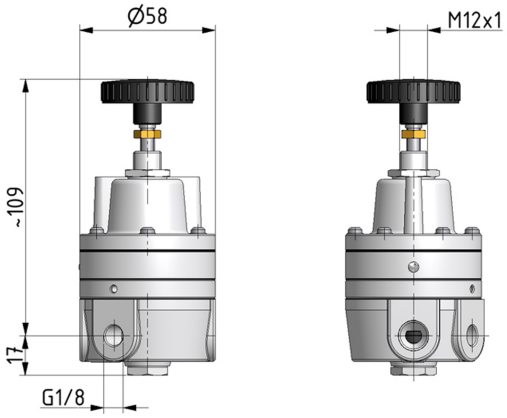
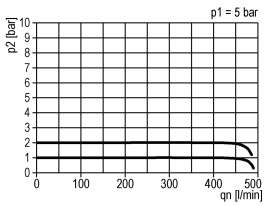
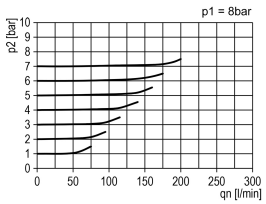


Image shows:
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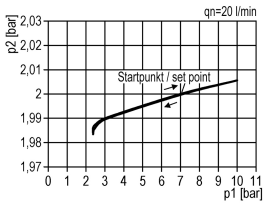
flow characteristic



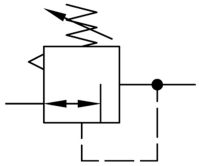
pressure characteristics



pressure characteristic



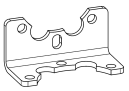
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **air consumption:** < 2,2 l/min at P1 5 bar, < 3,0 l/min at P1 7 bar, < 4,1 l/min at P1 10 bar

accessories



- mounting bracket: FDR.02-52

type	part-number	description
FDR.02 B2 S	9.6211.00.000.0V	Precision pressure regulator G1/4 0,05-2 (nonferrous metal)
FDR.02 B4 S	9.6211.00.001.0V	Precision pressure regulator G1/4 0,05-4 (nonferrous metal)
FDR.02 B7 S	9.6211.00.002.0V	Precision pressure regulator G1/4 0,05-7 (nonferrous metal)
FDR.02 B10 S	9.6211.00.003.0V	Precision pressure regulator G1/4 0,05-10 (nonferrous metal)

Precision pressure regulator | BG1

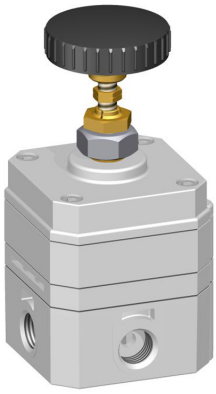


Image shows:
9.6211.00.300

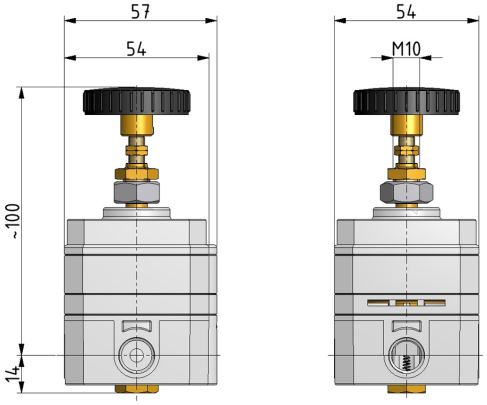
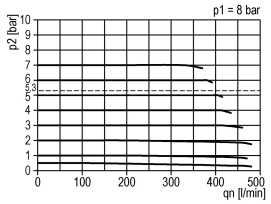
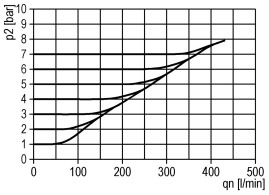


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9.6211.00.300

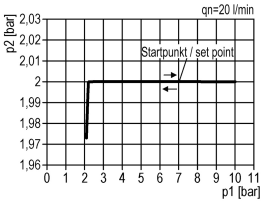
flow characteristic



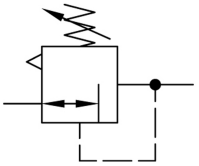
pressure characteristics



pressure characteristic



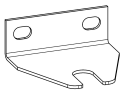
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, large ventilation cross-section
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 60°C
- **air consumption:** 2,6 l/min at P2 = 6 bar

accessories



- mounting bracket: FDR.04-34

type	part-number	description
FDR.04 B8	9.6211.00.300	Precision pressure regulator G1/4 0,1-8
FDR.04 B4	9.6211.00.301	Precision pressure regulator G1/4 0,1-4 (yellow)

january innovation 2014

Precision pressure regulator | BG1



Image shows:
9.6211.00.400/V

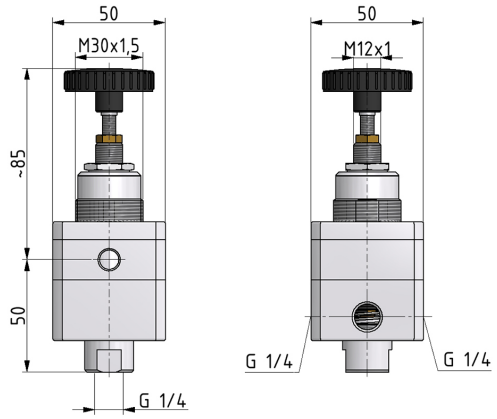
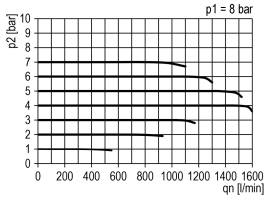
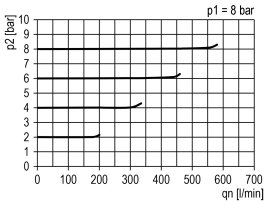


Image shows:
9.6211.00.400/V

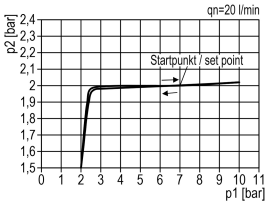
flow characteristic



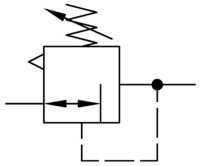
pressure characteristics



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and high relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **control panel nut:** control panel nut
- **air consumption:** < 1,3 l/min at P1 = 8 bar (shut off for downstream air and air consumption with port size G 1/8 bottom side)

accessories



- control panel mounting: MW.30/DR.00-34-2

type	part-number	description
FDR.07 B8 S	9.6211.00.400/V	Precision pressure regulator G1/4 0,05-8 with panel mounting ring and high relieving feature innovation january 2014

Precision pressure regulator | BG3



Image shows:
9.6231.00.400.0V

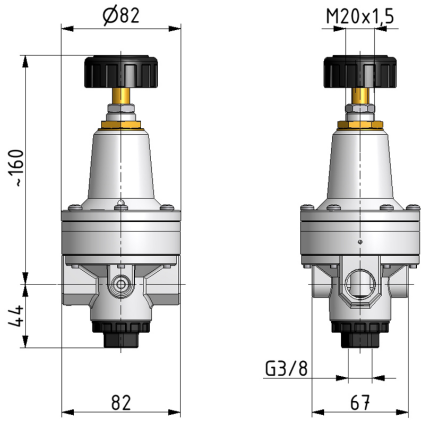
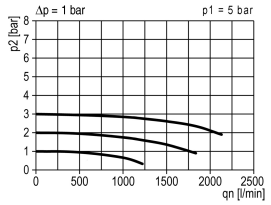
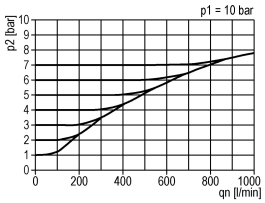


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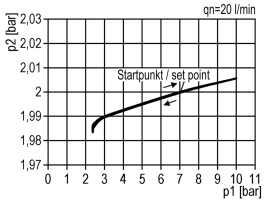
flow characteristic



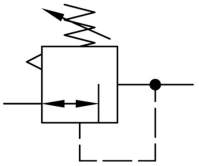
pressure characteristics



pressure characteristic



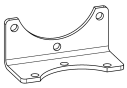
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** -35°C - 60°C (with absolutely dry air)
- **control panel nut:** control panel nut
- **air consumption:** < 1,5 l/min at P1 5 bar, < 2,0 l/min at P1 7 bar, < 4,0 l/min at P1 10 bar, < 6,0 l/min at P1 12 bar

accessories



- mounting bracket:
  FDR.03-52

type	part-number	description
FDR.03-31 B3 S	9.6231.00.400.0V	Precision pressure regulator G1/4 0,05-3
FDR.03-31 B5 S	9.6231.00.401.0V	Precision pressure regulator G1/4 0,05-5
FDR.03-31 B7 S	9.6231.00.402.0V	Precision pressure regulator G1/4 0,05-7
FDR.03-31 B10 S	9.6231.00.403.0V	Precision pressure regulator G1/4 0,05-10
FDR.03-32 B3 S	9.6232.00.400.0V	Precision pressure regulator G3/8 0,05-3
FDR.03-32 B5 S	9.6232.00.401.0V	Precision pressure regulator G3/8 0,05-5
FDR.03-32 B7 S	9.6232.00.402.0V	Precision pressure regulator G3/8 0,05-7
FDR.03-32 B10 S	9.6232.00.403.0V	Precision pressure regulator G3/8 0,05-10
FDR.03-33 B3 S	9.6233.00.400.0V	Precision pressure regulator G1/2 0,05-3
FDR.03-33 B5 S	9.6233.00.401.0V	Precision pressure regulator G1/2 0,05-5
FDR.03-33 B7 S	9.6233.00.402.0V	Precision pressure regulator G1/2 0,05-7
FDR.03-33 B10 S	9.6233.00.403.0V	Precision pressure regulator G1/2 0,05-10

Precision pressure regulator pneumatic pilot operated | BG3



Image shows:
9.6231.00.460.2V

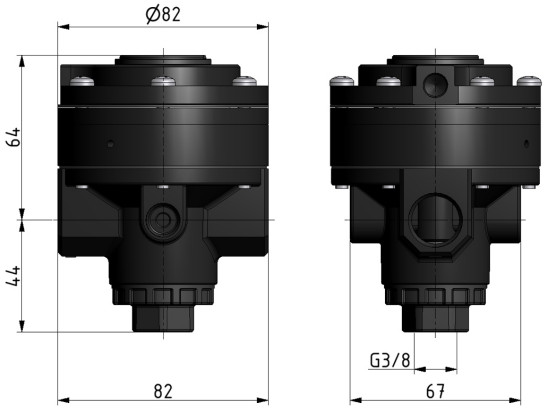
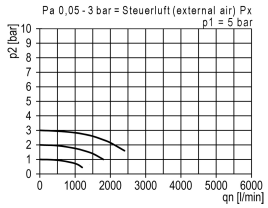
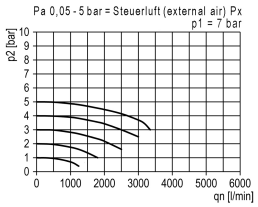


Image shows:
9.6231.00.460.2V

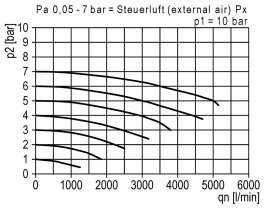
flow characteristic 1



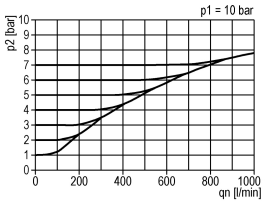
flow characteristic 2



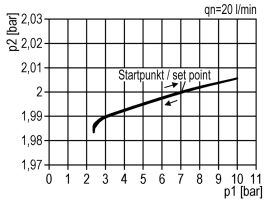
flow characteristic 3



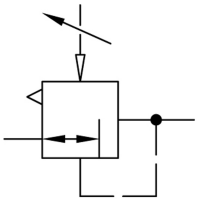
pressure characteristics



pressure characteristic



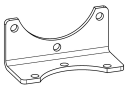
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature, pneumatic pilot-operated (1:1)
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** -35°C - 60°C (with absolutely dry air)
- **air consumption:** < 6 l/min at P1 16 bar

accessories



- mounting bracket: FDR.03-52

type	part-number	description
FDRI.03-31 B	9.6231.00.460.2V	Precision pressure regulator G1/4 pneumatic pilot operated (G1/8) (black painted)
FDRI.03-32 B	9.6232.00.460.2V	Precision pressure regulator G3/8 pneumatic pilot operated (G1/8) (black painted)
FDRI.03-33 B	9.6233.00.460.2V	Precision pressure regulator G1/2 pneumatic pilot operated (G1/8) (black painted)

Precision pressure regulator | BG1

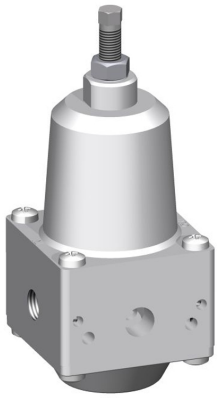


Image shows:
9.6211.00.163.0V

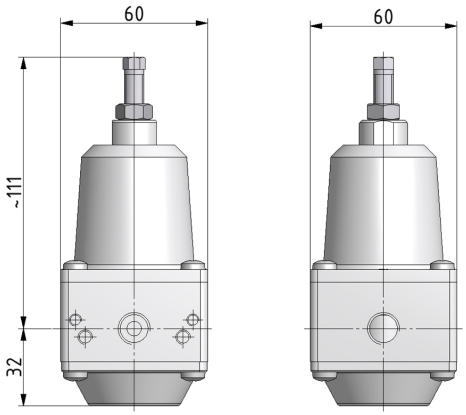
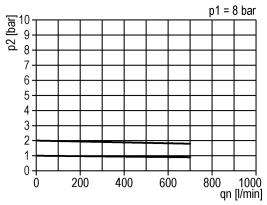
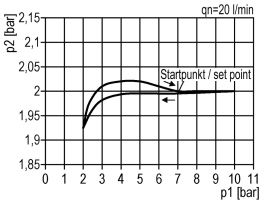


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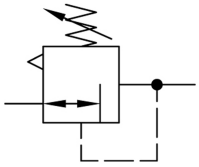
flow characteristic



pressure characteristic



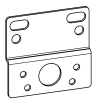
symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **air consumption:** 0,01 l/min, depend upon secondary pressure

accessories



- mounting bracket: FDP.11-40

type	part-number	description
FDR.11 E2	9.6211.00.163.0V	Precision pressure regulator G1/4 0,1-2
FDR.11 E3	9.6211.00.164.0V	Precision pressure regulator G1/4 0,1-3
FDR.11 E5	9.6211.00.165.0V	Precision pressure regulator G1/4 0,2-5

Precision regulator | BG3



Image shows:
9.6231.00.217.0V

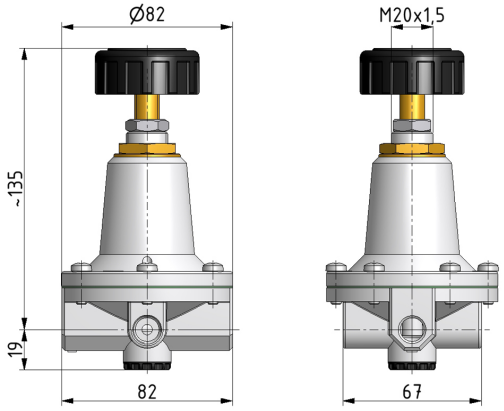
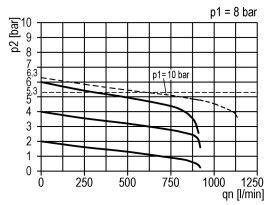
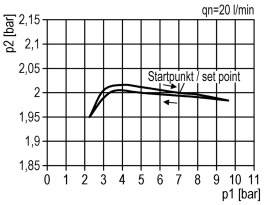


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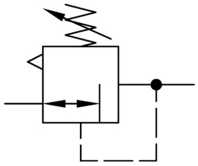
flow characteristic



pressure characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **control panel nut:** control panel nut

accessories

type	part-number	description
DRF.31 S	9.6231.00.217.0V	Fine pressure regulator G1/4 0,5-10 with panel mounting ring

Lubricator | BG0



Image shows:
9.2300.00.000.0V

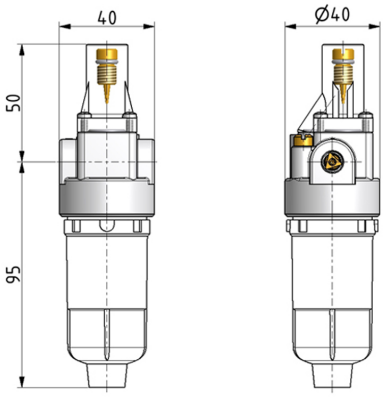
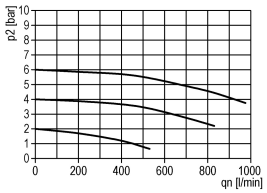
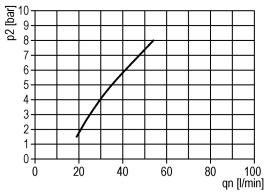


Image shows:
9.2300.00.000.0V

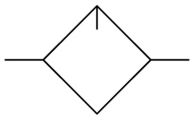
flow characteristic



lubricator operating limit



symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 17 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories

type	part-number	description
DO.00	9.2300.00.000.0V	Lubricator G1/8 with PC bowl
DO.00 M	9.2300.00.002.0V	Lubricator G1/8 with metal bowl
DO.01	9.2301.00.000.0V	Lubricator G1/4 with PC bowl
DO.01 M	9.2301.00.002.0V	Lubricator G1/4 with metal bowl

Lubricator | BG1



Image shows:
9.2311.00.000.0V

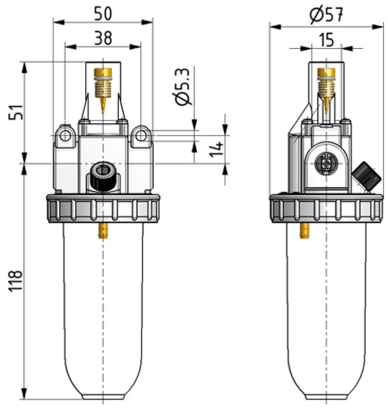
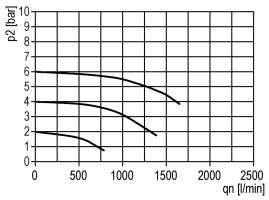
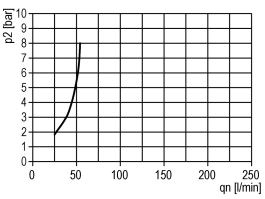


Image shows:
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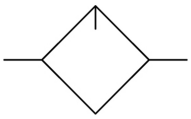
flow characteristic



lubricator operating limit



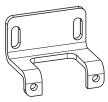
symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 40 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories



- mounting bracket: ZW.10
- electrical level indicator (version addition: N)

type	part-number	description
DO.11	9.2311.00.000.0V	Lubricator G1/4 with PC bowl
DO.11 M	9.2311.00.0021.V	Lubricator G1/4 with metal bowl and metal dome
DO.11 B	9.2311.00.003.0V	Lubricator G1/4 with PC bowl and bowl guard
DO.12	9.2312.00.000.0V	Lubricator G3/8 with PC bowl
DO.12 M	9.2312.00.0021.V	Lubricator G3/8 with metal bowl and metal dome
DO.12 B	9.2312.00.003.0V	Lubricator G3/8 with PC bowl and bowl guard

Lubricator | BG2



Image shows:
9.2322.00.000.0V

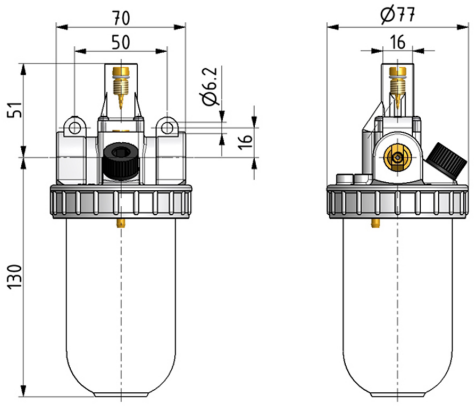
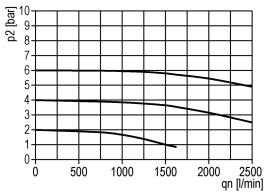
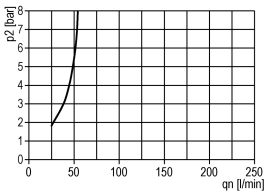


Image shows:
9.2322.00.000.0V

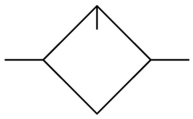
flow characteristic



lubricator operating limit



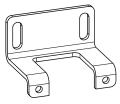
symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 110 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories



- mounting bracket: ZW.30
- electrical level indicator (version addition: N)

type	part-number	description
DO.22	9.2322.00.000.0V	Lubricator G3/8 with PC bowl
DO.22 M	9.2322.00.002.0V	Lubricator G3/8 with metal bowl
DO.22 B	9.2322.00.003.0V	Lubricator G3/8 with PC bowl and bowl guard
DO.23	9.2323.00.000.0V	Lubricator G1/2 with PC bowl
DO.23 M	9.2323.00.002.0V	Lubricator G1/2 with metal bowl
DO.23 B	9.2323.00.003.0V	Lubricator G1/2 with PC bowl and bowl guard

Lubricator | BG3



Image shows:
9.2333.00.000.0V

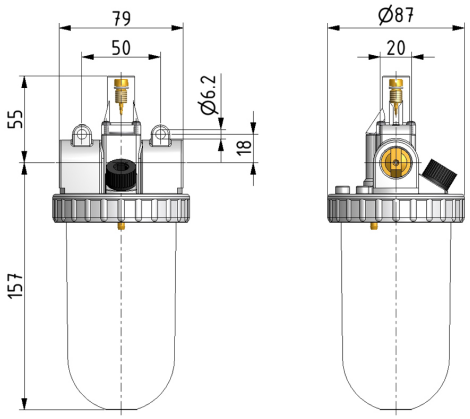
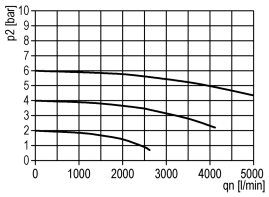
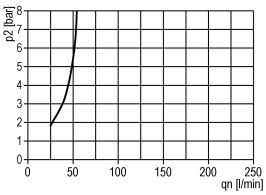


Image shows:
9.2333.00.000.0V

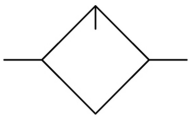
flow characteristic



lubricator operating limit



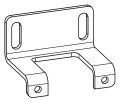
symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 135 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories



- mounting bracket: ZW.30
- electrical level indicator (version addition: N)

type	part-number	description
DO.33	9.2333.00.000.0V	Lubricator G1/2 with PC bowl
DO.33 M	9.2333.00.0021.V	Lubricator G1/2 with metal bowl, metal dome and brass oil filler screw
DO.33 B	9.2333.00.003.0V	Lubricator G1/2 with PC bowl and bowl guard

Lubricator | BG3

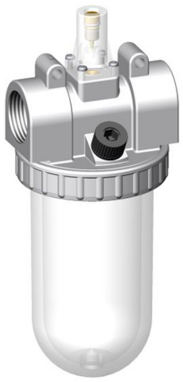


Image shows:
9.2334.00.000.0V

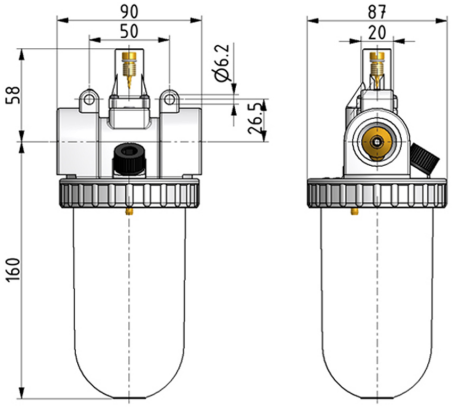
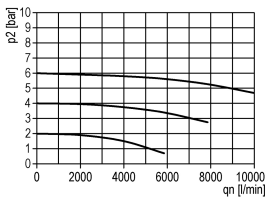
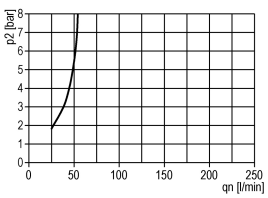


Image shows:
9.2334.00.000.0V

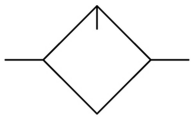
flow characteristic



lubricator operating limit



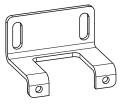
symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 135 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories



- mounting bracket: ZW.30
- electrical level indicator (version addition: N)

type	part-number	description
DO.34	9.2334.00.000.0V	Lubricator G3/4 with PC bowl
DO.34 M	9.2334.00.002.0	Lubricator G 3/4 with metal bowl
DO.34 B	9.2334.00.003.0	Lubricator G 3/4 with metal bowl and bowl guard
DO.35	9.2335.00.000.0V	Lubricator G1 with PC bowl
DO.35 M	9.2335.00.002.0	Lubricator G1 with metal bowl
DO.35 B	9.2335.00.003.0	Lubricator G1 with PC bowl and bowl guard

Lubricator | BG5

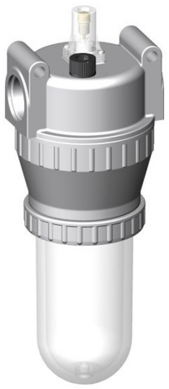


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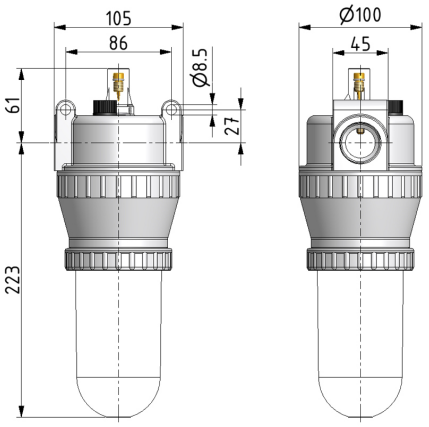
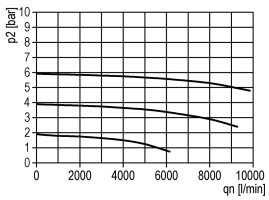
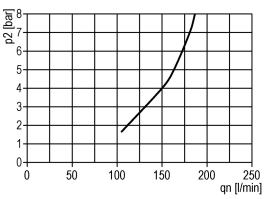


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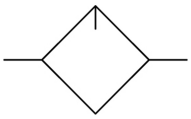
flow characteristic



lubricator operating limit



symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 550 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories

- electrical level indicator (version addition: N)

type	part-number	description
DO.54	9.2354.00.000.0	Lubricator G3/4 with PC bowl
DO.54 M	9.2354.00.002.01	Lubricator G3/4 with metal bowl and metal dome
DO.54 M/1,5L	9.2354.00.002.02	Lubricator G3/4 with metal bowl (long)
DO.54 B	9.2354.00.003.0	Lubricator G3/4 with PC bowl and bowl guard
DO.55	9.2355.00.000.0	Lubricator G1 with PC bowl
DO.55 M	9.2355.00.002.01	Lubricator G1 with metal bowl and metal dome
DO.55 M/1,5L	9.2355.00.002.02	Lubricator G1 with metal bowl (long)
DO.55 B	9.2355.00.003.0	Lubricator G1 with PC bowl and bowl guard

Lubricator | BG5

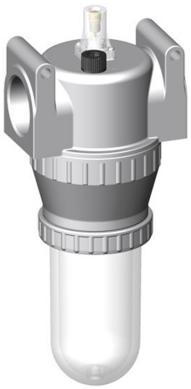


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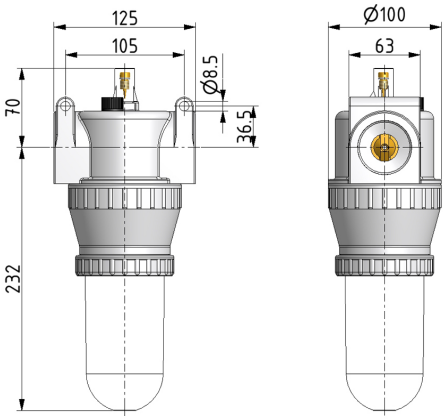
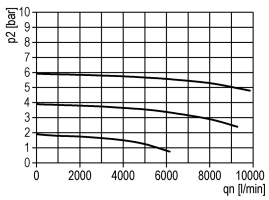
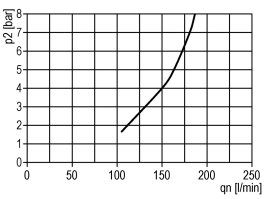


Image shows:
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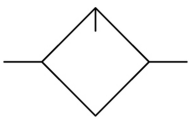
flow characteristic



lubricator operating limit



symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 550 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories

- electrical level indicator (version addition: N)

type	part-number	description
DO.57	9.2357.00.000.0V	Lubricator G1 ½ with PC bowl
DO.57 M	9.2357.00.002.0	Lubricator G1 ½ with metal bowl
DO.57 M/1,5L	9.2357.00.002.02	Lubricator G1 ½ with metal bowl (long)
DO.57 B	9.2357.00.003.0V	Lubricator G1 ½ with PC bowl and bowl guard

Lubricator | BG8



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9.2386.00.000.0

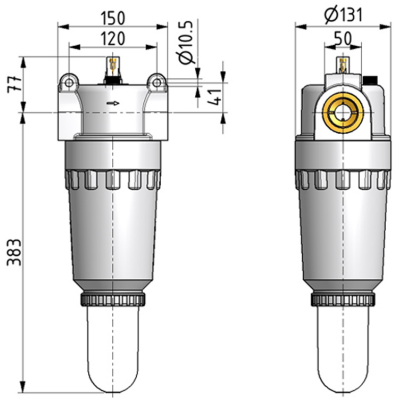
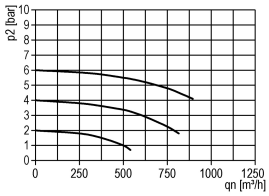
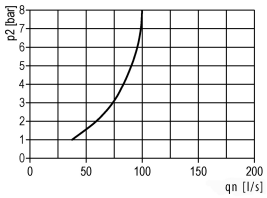


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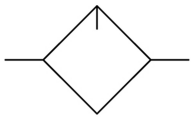
flow characteristic



lubricator operating limit



symbol



technical data

- **description:** proportional lubricator
- **medium:** compressed air, neutral gases
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **mounting:** vertical
- **bowl volume lubricator:** 1700 cm³
- **oil type:** CL 32 DIN 51517 - ISO VG 32
- **dome assembly:** PC
- **oil fill in:** can be filled with oil during operation

accessories

- electrical level indicator (version addition: N)

type	part-number	description
DO.86	9.2386.00.000.0	Lubricator G1 1/4 with PC bowl
DO.86 M	9.2386.00.002.0	Lubricator G1 1/4 with metal bowl
DO.86 B	9.2386.00.003.0	Lubricator G1 1/4 with PC bowl and bowl guard
DO.87	9.2387.00.000.0	Lubricator G1 1/2 with PC bowl
DO.87 M	9.2387.00.002.0	Lubricator G1 1/2 with metal bowl
DO.87 B	9.2387.00.003.0	Lubricator G1 1/2 with PC bowl and bowl guard
DO.88	9.2388.00.000.0	Lubricator G2 with PC bowl
DO.88 M	9.2388.00.002.01	Lubricator G2 with metal bowl and metal dome
DO.88 B	9.2388.00.003.0	Lubricator G2 with PC bowl and bowl guard

Mounting bracket | BG1

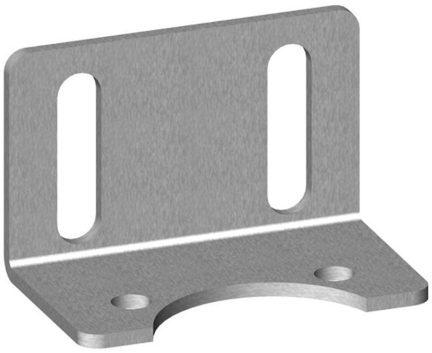


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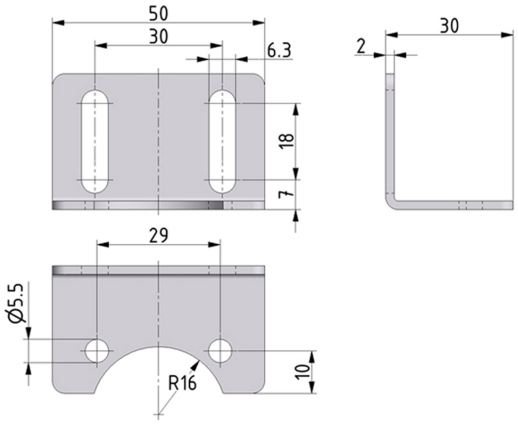


Image shows:
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technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 3 screws

accessories

type	part-number	description
BW.10	5.9711.04.000	Mounting bracket galvanized

Mounting bracket | BG2

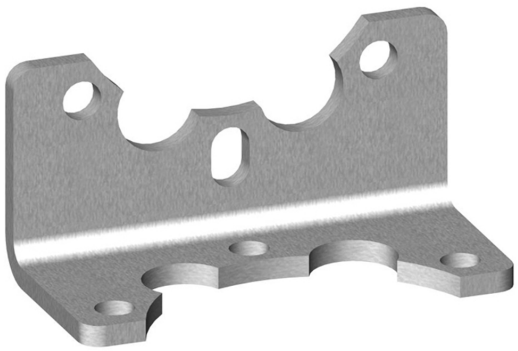


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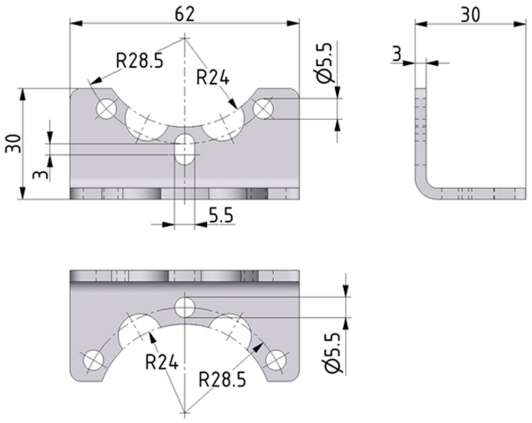


Image shows:
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technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 3 screws

accessories

type	part-number	description
BW.20	5.9722.04.000	Mounting bracket galvanized

Mounting bracket | BG3



Image shows:
5.9733.04.000

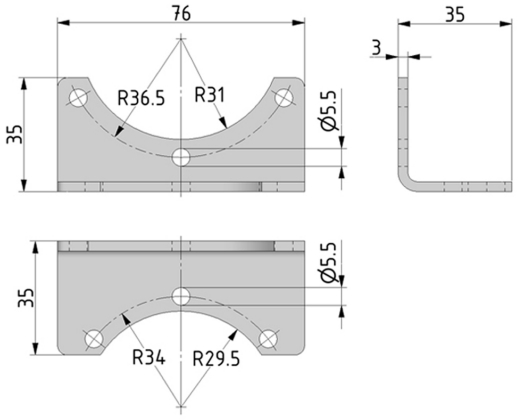


Image shows:
5.9733.04.000

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 3 screws

accessories

type	part-number	description
BW.30	5.9733.04.000	Mounting bracket galvanized

Mounting bracket | BG5

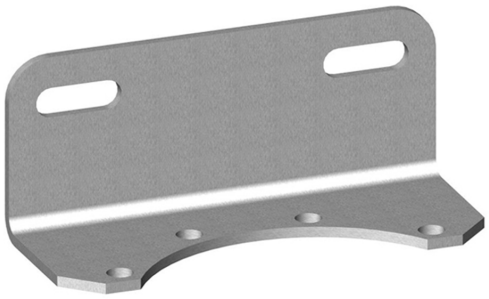


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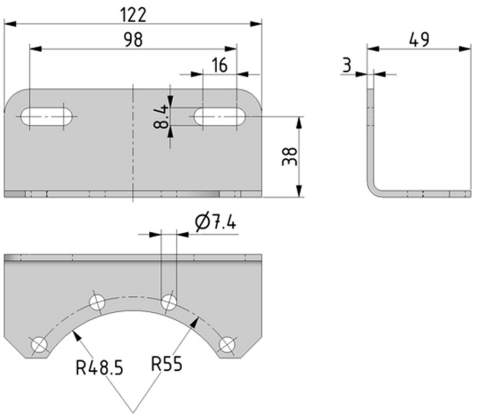


Image shows:
5.9755.04.000

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 3 screws

accessories

type	part-number	description
BW.50	5.9755.04.000	Mounting bracket galvanized

Bracket kit | BG1

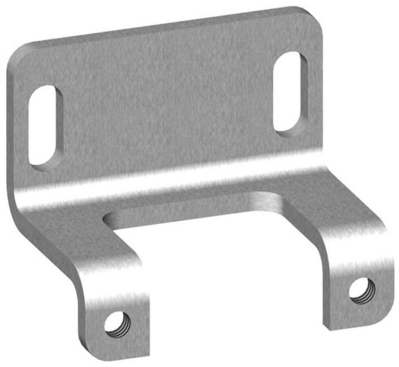


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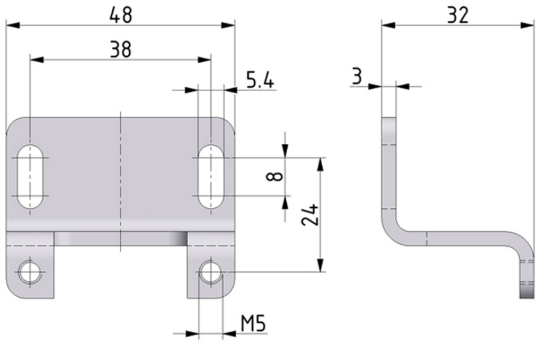


Image shows:
9.9711.00.000

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 2 screws

accessories

type	part-number	description
ZW.10	9.9711.00.000	Mounting bracket (ZW.10+2x screw M5x20 DIN84)

Bracket kit | BG2, BG3

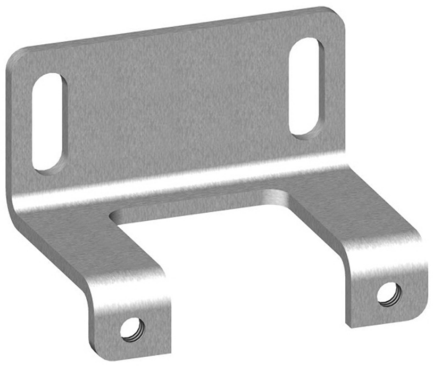


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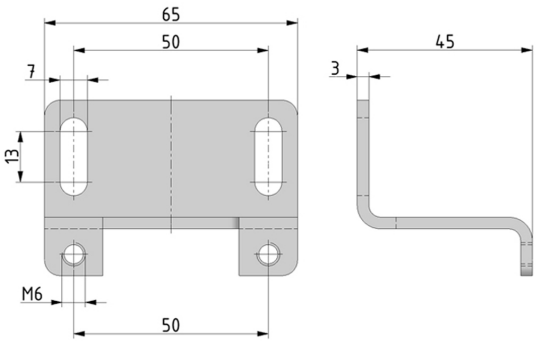


Image shows:
9.9733.00.000

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 2 screws

accessories

type	part-number	description
ZW.30	9.9733.00.000	Mounting bracket (ZW.30+2x screw M6x25 DIN84)

Bracket kit | FDP.11

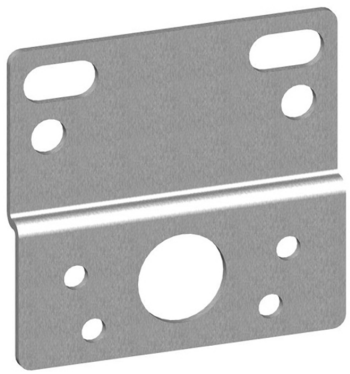


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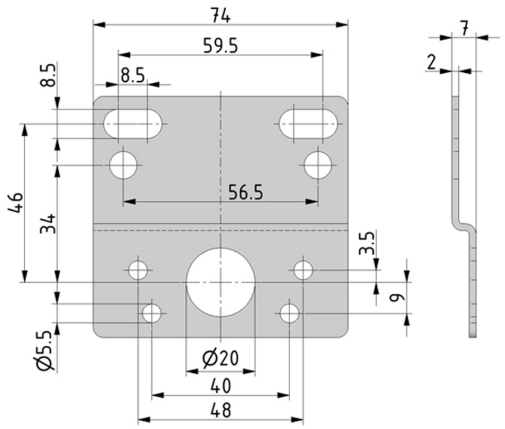


Image shows:
9.9711.00.006

technical data

- **description:** Mounting bracket
- **material:** stainless steel
- **fixing:** mounting with 2 screws

accessories

type	part-number	description
FDP.11-40	9.9711.00.006	Mounting bracket (FDP.11-40+2x screw M5x10 DIN84)

Mounting bracket | FDR.02

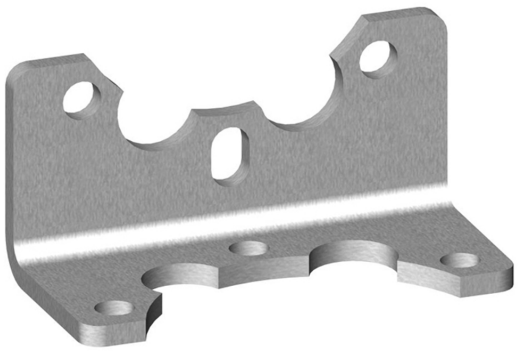


Image shows:
9.9911.00.086

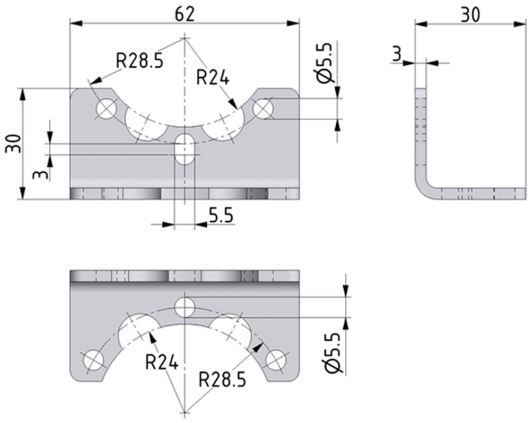


Image shows:
9.9911.00.086

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 3 screws

accessories

type	part-number	description
FDR.02-52	9.9911.00.086	Mounting bracket galvanized

Mounting bracket | FDR.04

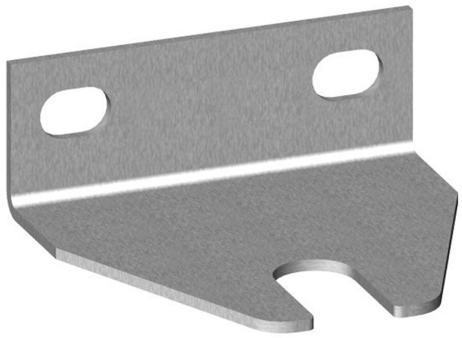


Image shows:
9.9911.00.067

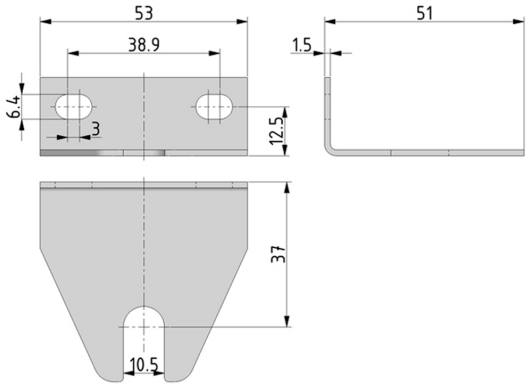


Image shows:
9.9911.00.067

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 1 nut

accessories

type	part-number	description
FDR.04-34	9.9911.00.067	Mounting bracket galvanized

Bracket kit | BG3



Image shows:
9.9931.00.086/1

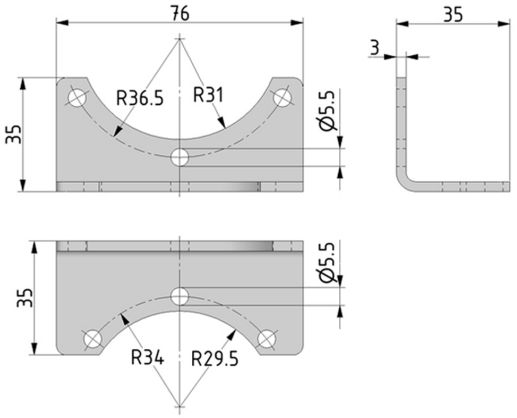


Image shows:
9.9931.00.086/1

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 3 screws

accessories

type	part-number	description
FDR.03-52	9.9931.00.086/1	Mounting bracket (BW.30+3x screw M5x45 ISO4762+6x5 ISO7090)

Bracket kit | ZFL.55

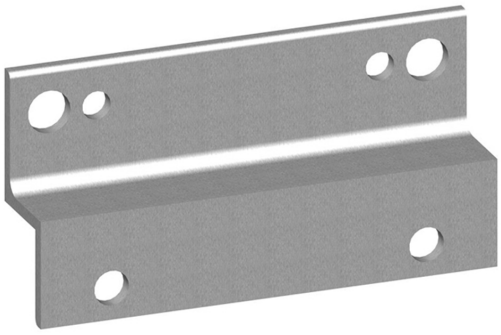


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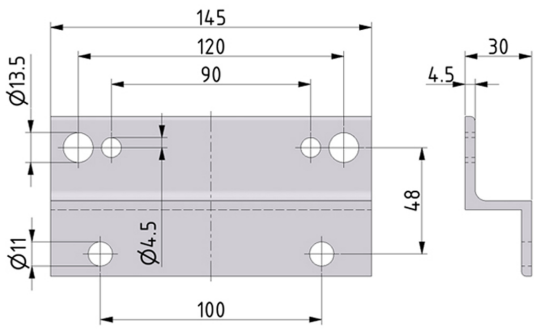


Image shows:
9.9755.00.002

technical data

- **description:** Mounting bracket
- **material:** steel galvanized
- **fixing:** mounting with 2 screws

accessories

type	part-number	description
ZFL.55-22	9.9755.00.002	Mounting bracket (ZFL.55-22+4x screw M10x25 DIN933+4x10 ISO7090)

Mounting bracket for panel mounting | BG0

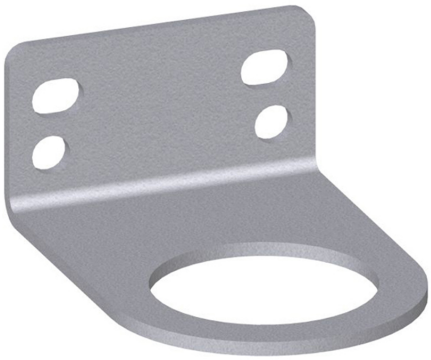


Image shows:
9.9911.00.024

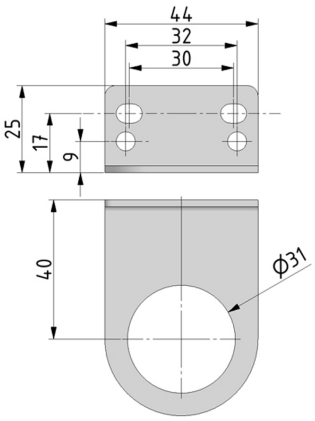


Image shows:
9.9911.00.024

technical data

- **description:** Mounting bracket for panel mounting
- **material:** steel galvanized
- **fixing:** control panel nut and 2 screws for fixation to wall

accessories

type	part-number	description
WH.M 30/DR.00-34	9.9911.00.024	Bracket galvanized and nut M30x1,5

Mounting bracket for panel mounting | BG1

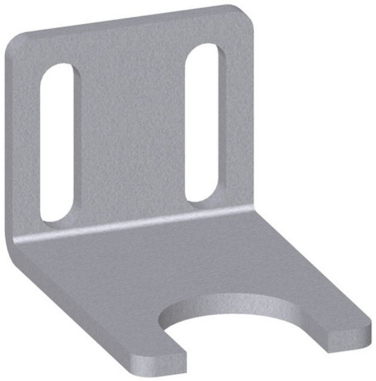


Image shows:
9.9911.00.047

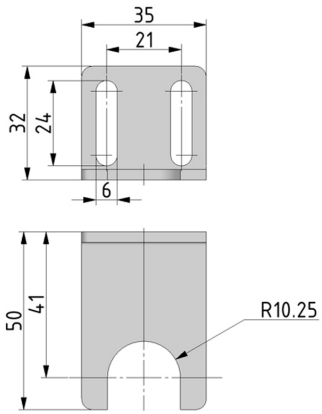


Image shows:
9.9911.00.047

technical data

- **description:** Mounting bracket for panel mounting
- **material:** steel galvanized
- **fixing:** control panel nut and 2 screws for fixation to wall

accessories

type	part-number	description
WH.M 20/DR.11-7	9.9911.00.047	Mounting bracket kit (1x washer DR.11-23; 1x nut DR.11-7; 1x bracked WH.M 20)

Gauge | BG0



Image shows:
9.3700.00.012

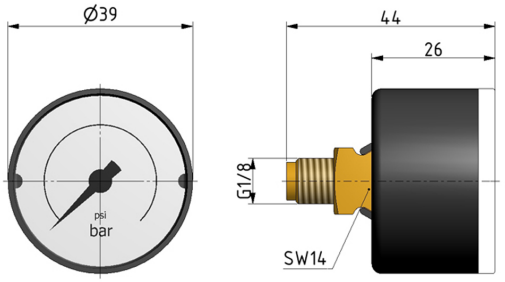


Image shows:
9.3700.00.012

technical data

- **description:** bourdon tube pressure gauge (EN 837-1), pressure connection on the back
- **temperature range:** 0 - 60°C
- **diameter:** ø40
- **scale ranges (EN 837-1):** 0 - 16 bar
- **accuracy class:** 2,5 (EN 837-1 /6)
- **case:** black plastic
- **window:** snap fit window of clear plastic
- **working pressure, steady:** 0 - 12 bar
- **working pressure, fluctuating:** 0 - 10,5 bar
- **temperature effect:** when temperature of the pressure element deviates from reference temperature (+20°C): max. ±0,4%/10°C of the span

accessories

type	part-number	description
G 40.16 R	9.3700.00.012	Gauge G1/8 Knocks instrument dial light grey
G 40.10 R	9.3700.00.013	Gauge G1/8 Knocks instrument dial light grey
G 40.6 R	9.3700.00.014	Gauge G1/8 Knocks instrument dial light grey
G 40.4 R	9.3700.00.015	Gauge G1/8 Knocks instrument dial light grey

Gauge | BG1, BG2, BG8



Image shows:
9.3700.00.110

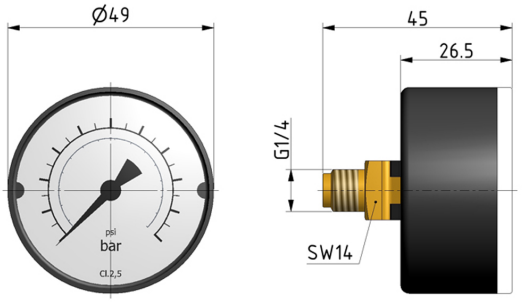


Image shows:
9.3700.00.110

technical data

- **description:** bourdon tube pressure gauge (EN 837-1), pressure connection on the back
- **temperature range:** 0 - 50°C
- **diameter:** ø50
- **scale ranges (EN 837-1):** 0 - 16 bar
- **accuracy class:** 2,5 (EN 837-1 /6)
- **case:** black plastic
- **window:** snap fit window of clear plastic
- **working pressure, steady:** 0 - 12 bar
- **working pressure, fluctuating:** 0 - 10,5 bar
- **temperature effect:** when temperature of the pressure element deviates from reference temperature (+20°C): max. ±0,4%/10°C of the span

accessories

type	part-number	description
G 50.16 R	9.3700.00.110	Gauge G1/4 Knocks instrument dial light grey
G 50.10 R	9.3700.00.111	Gauge G1/4 Knocks instrument dial light grey
G 50.6 R	9.3700.00.112	Gauge G1/4 Knocks instrument dial light grey
G 50.25 R	9.3700.00.113	Gauge G1/4 Knocks instrument dial light grey
G 50.2,5 R	9.3700.00.114	Gauge G1/4 Knocks instrument dial light grey
G 50.4 R	9.3700.00.116	Gauge G1/4 Knocks instrument dial light grey

Gauge | BG3, BG5, BG7



Image shows:
9.3700.00.243

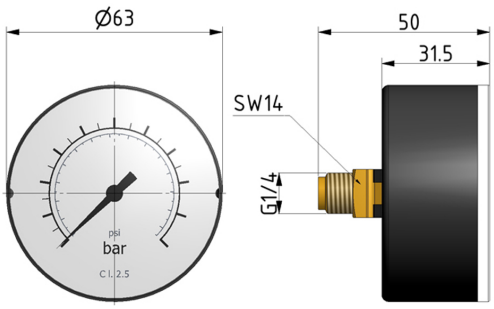


Image shows:
9.3700.00.243

technical data

- **description:** bourdon tube pressure gauge (EN 837-1), pressure connection on the back
- **temperature range:** 0 - 50°C
- **diameter:** ø63
- **scale ranges (EN 837-1):** 0 - 16 bar
- **accuracy class:** 2,5 (EN 837-1 /6)
- **case:** black plastic
- **window:** snap fit window of clear plastic
- **working pressure, steady:** 0 - 12 bar
- **working pressure, fluctuating:** 0 - 10,5 bar
- **temperature effect:** when temperature of the pressure element deviates from reference temperature (+20°C): max. ±0,4%/10°C of the span

accessories

type	part-number	description
G 63.16 R	9.3700.00.243	Gauge G1/4 Knocks instrument dial light grey
G 63.25 R	9.3700.00.244	Gauge G1/4 Knocks instrument dial light grey
G 63.6 R	9.3700.00.245	Gauge G1/4 Knocks instrument dial light grey
G 63.10 R	9.3700.00.246	Gauge G1/4 Knocks instrument dial light grey

Bowl | BG0



Image shows:
9.9900.00.038

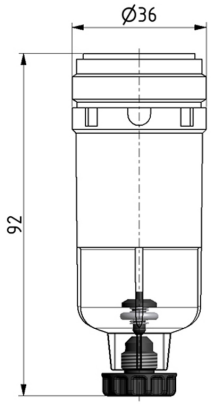


Image shows:
9.9900.00.038

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 50°C
- **bowl:** PC
- **drain:** HA
- **fixing:** screw thread

accessories

type	part-number	description
C.00 HA4	9.9900.00.038	PC bowl with semi automatic drain and o-ring 30x2

Bowl | BG0



Image shows:
8.2100.96.001.2

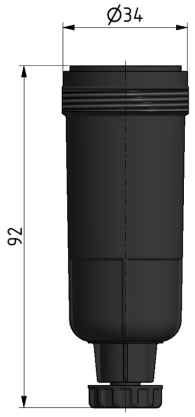


Image shows:
8.2100.96.001.2

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 50°C
- **bowl:** metal bowl
- **drain:** HA
- **fixing:** screw thread

accessories

type	part-number	description
C.00 M HA4	8.2100.96.001.2	Metal bowl with semi automatic drain and o-ring 30x2

Bowl | BG0



Image shows:
9.9900.00.019

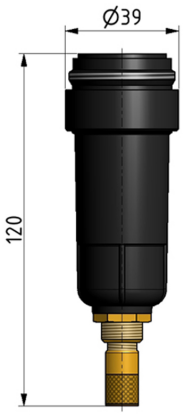


Image shows:
9.9900.00.019

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 50°C
- **bowl:** metal bowl
- **drain:** AM NO
- **fixing:** screw thread

accessories

type	part-number	description
C.00 M AM10	9.9900.00.019	Metal bowl with automatic drain and o-ring 30x2
C.00 M AM10/NC	9.9900.00.052	Metal bowl with automatic drain (usually closed) and o-ring 30x2

Bowl | BG0, BG1



Image shows:
8.2111.84.002

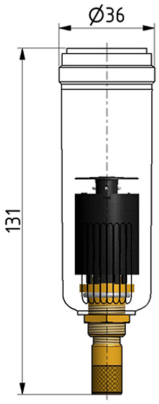


Image shows:
8.2111.84.002

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 50°C
- **bowl:** PC
- **drain:** AM NO
- **fixing:** screw thread

accessories

type	part-number	description
C.11 AM10	8.2111.84.002	PC bowl with automatic drain and o-ring 30x2
C.11 AM10/NC	9.9911.00.030	PC bowl with automatic drain (usually closed) and o-ring 30x2

Bowl | BG1



Image shows:
8.1111.42.001

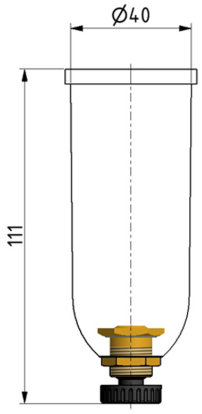


Image shows:
8.1111.42.001

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.11 HA3	8.1111.42.001	PC bowl with semi automatic drain and o-ring 37x2

Bowl | BG1



Image shows:
8.1111.42.002

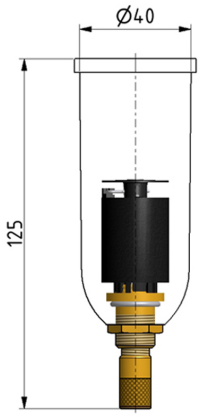


Image shows:
8.1111.42.002

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** AM NO
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.11 AM10	8.1111.42.002	PC bowl with automatic drain and o-ring 37x2

Bowl | BG1



Image shows:
8.1111.39.000.0

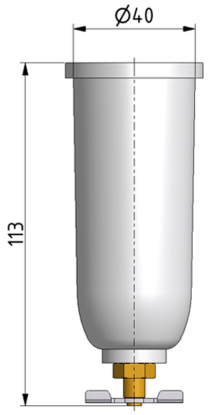


Image shows:
8.1111.39.000.0

technical data

- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** man
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.11 M man	8.1111.39.000.0	Metal bowl with manual drain and o-ring 37x2

Bowl | BG1



Image shows:
8.1111.39.001.0

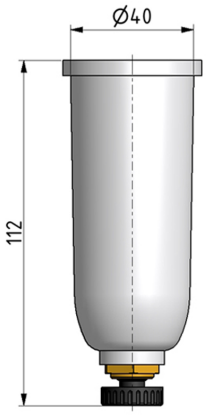


Image shows:
8.1111.39.001.0

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** HA3
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.11 M HA3	8.1111.39.001.0	Metal bowl with semi automatic drain and o-ring 37x2

Bowl | BG1



Image shows:
8.1111.39.002.0

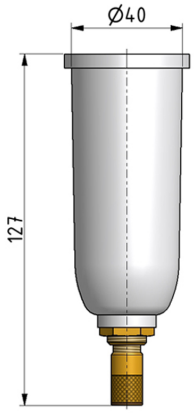


Image shows:
8.1111.39.002.0

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.11 M AM10	8.1111.39.002.0	Metal bowl with automatic drain and o-ring 37x2

Bowl | BG2



Image shows:
8.1122.36.001

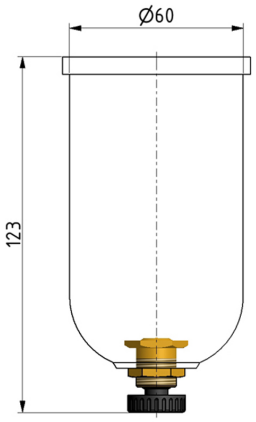


Image shows:
8.1122.36.001

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.22 HA3	8.1122.36.001	PC bowl with semi automatic drain and o-ring 58x3

Bowl | BG2



Image shows:
8.1122.36.002

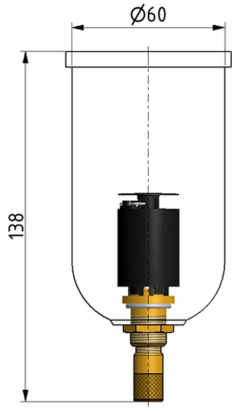


Image shows:
8.1122.36.002

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** AM NO
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.22 AM10	8.1122.36.002	PC bowl with automatic drain and o-ring 58x3

Bowl | BG2



Image shows:
8.1122.50.000.0

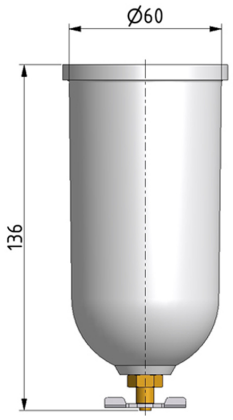


Image shows:
8.1122.50.000.0

technical data

- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** man
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.22 M man	8.1122.50.000.0	Metal bowl with manual drain and o-ring 58x3

Bowl | BG2



Image shows:
8.1122.10.000.0

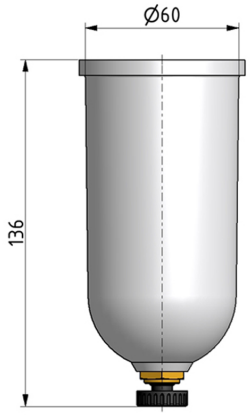


Image shows:
8.1122.10.000.0

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** HA3
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.22 M HA3	8.1122.10.000.0	Metal bowl with semi automatic drain and o-ring 58x3

Bowl | BG2



Image shows:
8.1122.10.001.0

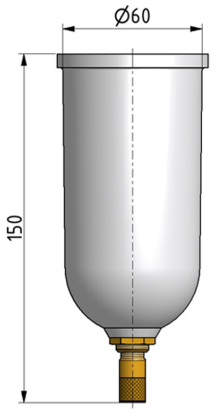


Image shows:
8.1122.10.001.0

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.22 M AM10	8.1122.10.001.0	Metal bowl with automatic drain and o-ring 58x3

Bowl | BG3



Image shows:
8.1133.48.001

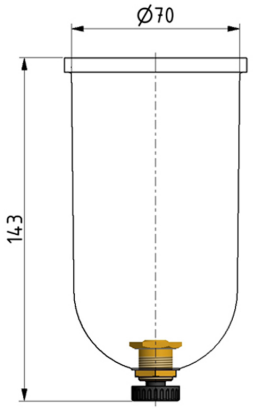


Image shows:
8.1133.48.001

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** HA3
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.33 HA3	8.1133.48.001	PC bowl with semi automatic drain and o-ring 67,95x2,62

Bowl | BG3



Image shows:
8.1133.48.002

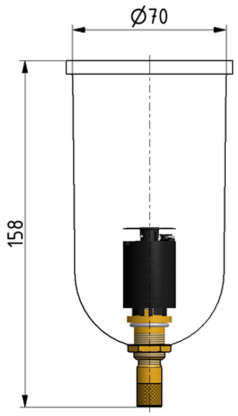


Image shows:
8.1133.48.002

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **drain:** AM NO
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.33 AM10	8.1133.48.002	PC bowl with automatic drain and o-ring 67,95x2,62

Bowl | BG3



Image shows:
8.1133.25.000.0

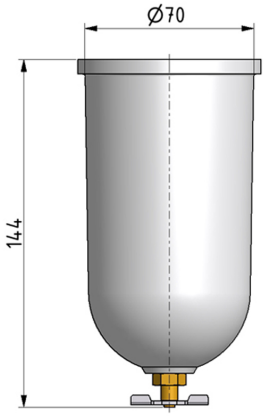


Image shows:
8.1133.25.000.0

technical data

- **supply pressure P1 min.:** 0 bar
- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** man
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.33 M man	8.1133.25.000.0	Metal bowl with manual drain and o-ring 67,95x2,62

Bowl | BG3



Image shows:
8.1133.49.000.0

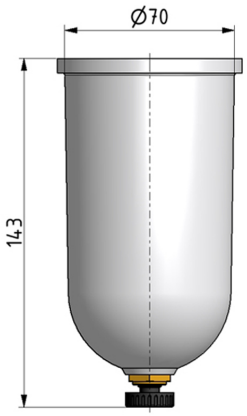


Image shows:
8.1133.49.000.0

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** HA3
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.33 M HA3	8.1133.49.000.0	Metal bowl with semi automatic drain and o-ring 67,95x2,62

Bowl | BG3



Image shows:
8.1133.49.001.0

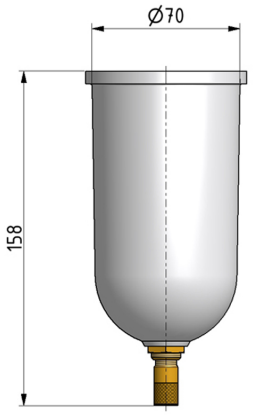


Image shows:
8.1133.49.001.0

technical data

- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **drain:** AM NO
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.33 M AM10	8.1133.49.001.0	Metal bowl with automatic drain and o-ring 67,95x2,62

Oil bowl | BG0



Image shows:
9.9900.00.040

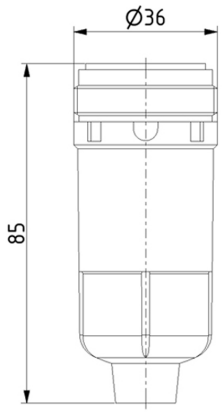


Image shows:
9.9900.00.040

technical data

- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 50°C
- **bowl:** PC
- **fixing:** screw thread

accessories

type	part-number	description
L.00	9.9900.00.040	PC oil bowl with o-ring 30x2

Oil bowl | BG0



Image shows:
9.9900.00.041

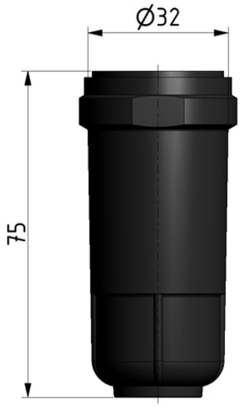


Image shows:
9.9900.00.041

technical data

- **supply pressure P1 max.:** 12 bar
- **temperature range:** 0 - 50°C
- **bowl:** metal bowl
- **fixing:** screw thread

accessories

type	part-number	description
L.00 M	9.9900.00.041	Metal oil bowl black with o-ring 30x2

Oil bowl | BG1



Image shows:
8.2311.24.000

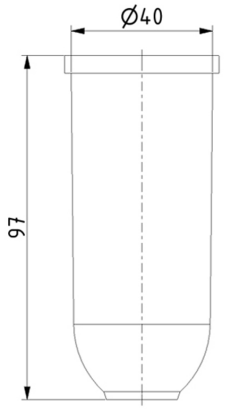


Image shows:
8.2311.24.000

technical data

- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **fixing:** screw collar ring

accessories

type	part-number	description
DO.11	8.2311.24.000	PC oil bowl with o-ring 37x2

Oil bowl | BG1



Image shows:
8.2311.33.000.0

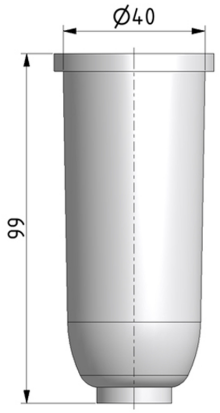


Image shows:
8.2311.33.000.0

technical data

- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **fixing:** screw collar ring

accessories

type	part-number	description
DO.11 M	8.2311.33.000.0	Metal oil bowl (silver) with o-ring 37x2

Oil bowl | BG2



Image shows:
8.2322.24.000

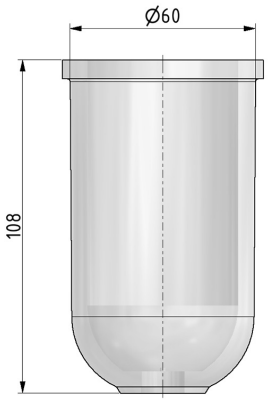


Image shows:
8.2322.24.000

technical data

- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **fixing:** screw collar ring

accessories

type	part-number	description
DO.22	8.2322.24.000	PC oil bowl with o-ring 58x3

Oil bowl | BG2



Image shows:
8.2322.25.000.0

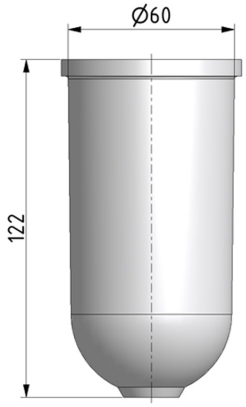


Image shows:
8.2322.25.000.0

technical data

- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **fixing:** screw collar ring

accessories

type	part-number	description
DO.22 M	8.2322.25.000.0	Metal oil bowl (silver) with o-ring 58x3

Oil bowl | BG3



Image shows:
8.2333.24.000

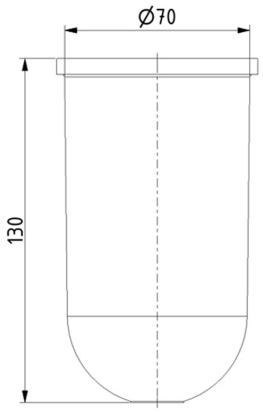


Image shows:
8.2333.24.000

technical data

- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 60°C
- **bowl:** PC
- **fixing:** screw collar ring

accessories

type	part-number	description
DO.33	8.2333.24.000	PC oil bowl with o-ring 67,95x2,62

Oil bowl | BG3



Image shows:
8.2333.25.000.0

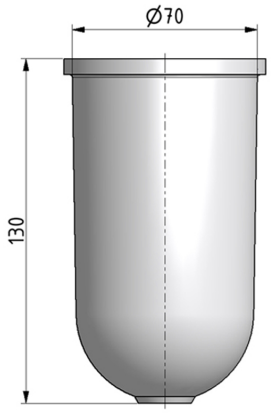


Image shows:
8.2333.25.000.0

technical data

- **supply pressure P1 max.:** 25 bar
- **temperature range:** 0 - 60°C
- **bowl:** metal bowl
- **fixing:** screw collar ring

accessories

type	part-number	description
DO.33 M	8.2333.25.000.0	Metal oil bowl (silver) with o-ring 67,95x2,62

Bowl guard | BG1

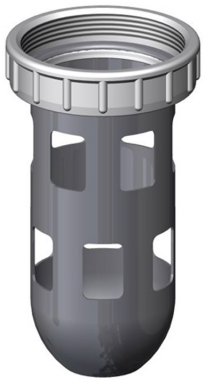


Image shows:
8.1111.35.000.0

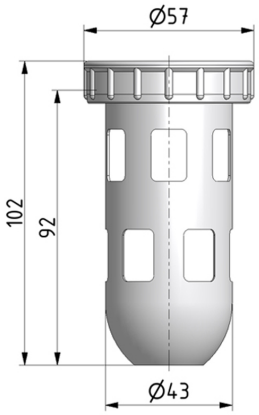


Image shows:
8.1111.35.000.0

technical data

- **material:** steel galvanized
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.11-35	8.1111.35.000.0	Bowl guard with screw cap

Bowl guard | BG2



Image shows:
8.1122.11.000.0

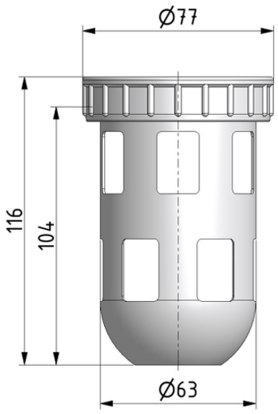


Image shows:
8.1122.11.000.0

technical data

- **material:** steel galvanized
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.22-11	8.1122.11.000.0	Bowl guard with screw cap

Bowl guard | BG3

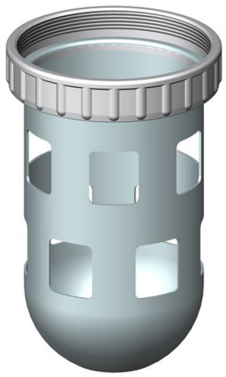


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8.1133.11.000.0

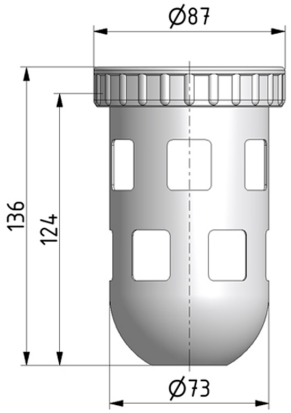


Image shows:
8.1133.11.000.0

technical data

- **material:** steel galvanized
- **fixing:** screw collar ring

accessories

type	part-number	description
DF.33-11	8.1133.11.000.0	Bowl guard with screw cap

Differential pressure gauge | BG5, BG8

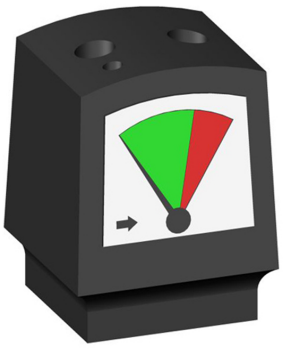


Image shows:
9.3700.00.850

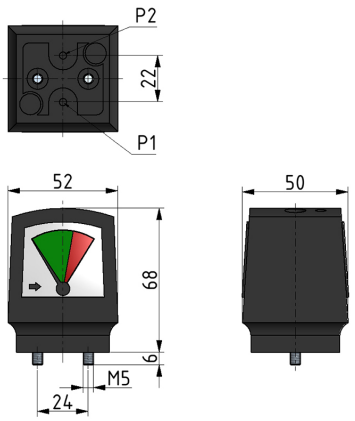


Image shows:
9.3700.00.850

technical data

- **description:** magnetic piston meter
- **temperature range:** 0 - 60°C
- **mounting:** vertical
- **case:** ULTRAMID plastic, black
- **scales:** white plastic, pressure = black, colour fields = green/red
- **scale range:** 0 - 0,5 bar
- **max. working pressure:** 16 bar

accessories

type	part-number	description
DM 2	9.3700.00.850	Differential pressure gauge scale ranges: 0-0,5bar

Differential pressure gauge DM 2 D | BG5, BG8



Image shows:
9.3700.00.851

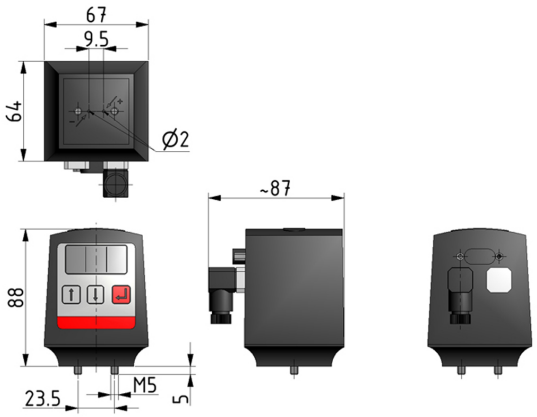


Image shows:
9.3700.00.851

technical data

- **temperature range:** 0 - 60°C
- **mounting:** vertical
- **max. working pressure:** 16 bar
- **supply voltage:** 8 ... 15 V DC, 12 ... 24 V DC
- **average current drain:** circa 300 mA
- **connecting plug:** Hirschmann G30 W 3 F or rather 3,2 mm blade terminal
- **measuring zone:** 0,1 ... 1,0 bar, <0,1 bar display "Lo", >1 bar display "Hi"
- **calibration:** 0,35 bar
- **data logging:** all 0,1 second
- **update display:** all 5 second (averaging)
- **working range of pressure:** 2 - 16 bar
- **durability:** 1 .. 24 month - factory settings: 12 month
- **critical differential pressure:** 0,10 ... 1,00 bar - factory settings: 0,35 bar
- **pressure blow control:** on / off - factory settings: on
- **semantics:** bar / PSI - factory settings: bar
- **1. dry contact:** changeover contact (normally opened / closed), max. voltage: 220V DC / 250V AC, max. switching circuit: 1A, max. breaking capacity: 30W DC / 60VA AC, connecting plug: Hirschmann G 30W 3 F or rather 3,2 mm blade terminal
- **2. serial interface:** RS485 ASCII standard, connecting plug: 9- pin sub- D connector

accessories

type	part-number	description
DM 2 D	9.3700.00.851	Differential pressure gauge with two colour LED display, freely adjustable switch contact and serial interface, supply unit voltage 24 V

Filter silencer | --



Image shows:
9.4033.00.700

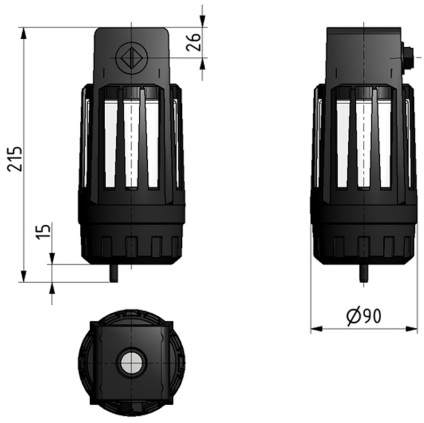
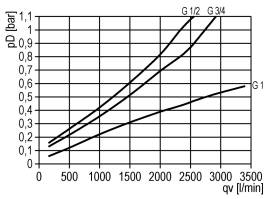
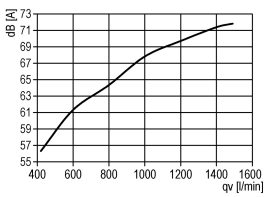


Image shows:
9.4033.00.700

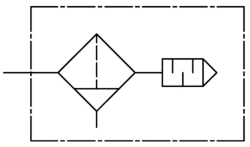
flow characteristic



noise expansion



symbol



technical data

- **description:** 3 graduated coalescence filter
- **supply pressure P1 max.:** 10 bar
- **temperature range:** 0 - 60°C
- **drain:** overflow for tube diameter inside ø6
- **mounting:** vertically, connection thread on the top and on the side
- **residual oil concent:** 0,01 mg/m³
- **filter efficiency:** 99,99%
- **reduction of noise:** circa 40 dB (A) (at P1 = 5 bar; Q = 2000 l/min and 1 m distance)
- **filter change:** min. once in a year

accessories

- Befestigungswinkel BFSD.55-3

type	part-number	description
FSD.33	9.4033.00.700	Filter silencer G1/2
FSD.34	9.4034.00.700	Filter silencer G3/4

Filter silencer | --



Image shows:
9.4055.00.700

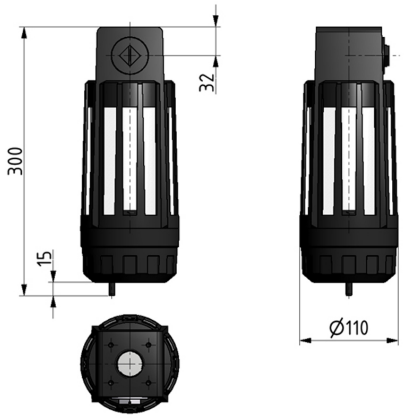
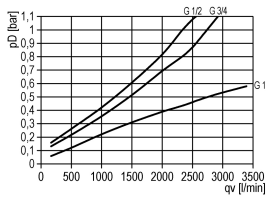
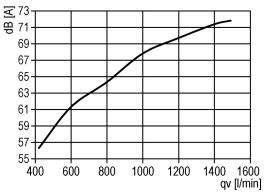


Image shows:
9.4055.00.700

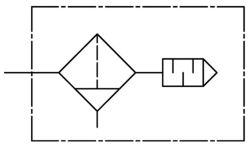
flow characteristic



noise expansion



symbol



technical data

- **description:** 3 graduated coalescence filter
- **supply pressure P1 max.:** 10 bar
- **temperature range:** 0 - 60°C
- **drain:** overflow for tube diameter inside ø6
- **mounting:** vertically, connection thread on the top and on the side
- **residual oil concent:** 0,01 mg/m³
- **filter efficiency:** 99,99%
- **reduction of noise:** circa 40 dB (A) (at P1 = 5 bar; Q = 2000 l/min and 1 m distance)
- **filter change:** min. once in a year

accessories

- Befestigungswinkel BFSD.55-3

type	part-number	description
FSD.55	9.4055.00.700	Filter silencer G1

Automatic drain | --

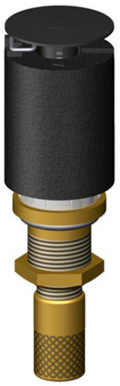


Image shows:
9.3600.00.410/NC

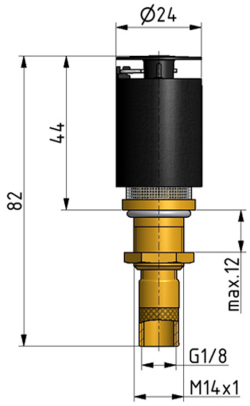


Image shows:
9.3600.00.410/NC

symbol



technical data

- **description:** float handled condensate drain (no bleed pressureless)
- **supply pressure P1 min.:** 1,5 bar
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 50°C
- **fixing:** located within condensate bowl
- **mounting shaft:** ø14 mm
- **discharge connection:** G 1/8
- **function without pressure:** (P1 0 bar) valve closed

accessories

type	part-number	description
AM 10 NC	9.3600.00.410/NC	Automatic drain, p1= 1,5-16bar, usually closed
AM 10	9.3600.00.410/V	Automatic drain, p1= 1,5-16bar

Relief valve | BG0

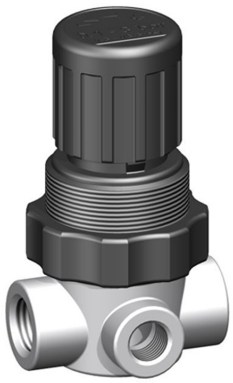


Image shows:
9.6101.00.500.0V

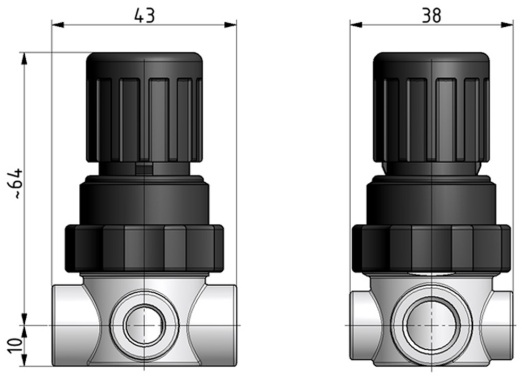
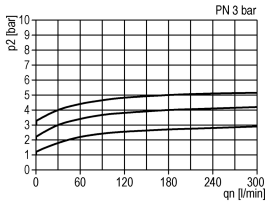
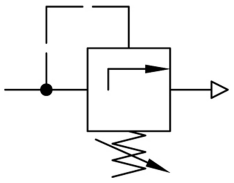


Image shows:
9.6101.00.500.0V

pressure characteristics



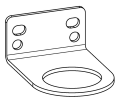
symbol



technical data

- **adjustment range P2 max.:** 3 bar
- **description:** spring loaded diaphragm-relief-valve opening pressure adjustable
- **medium:** compressed air, non corrosive gases (other media available upon request)
- **temperature range:** 0 - 60°C
- **fixing:** panel mounting, ø30,5

accessories



- control panel mounting: WH.M 30/DR.00-34

type	part-number	description
DVU.01	9.6101.00.500.0V	Relief valve G1/4 0,1-3
DVU.01	9.6101.00.501.0V	Relief valve G1/4 0,1-2
DVU.01	9.6101.00.503.0V	Relief valve G1/4 0,5-10
DVU.01 S/KS	9.6101.00.50301V	Relief valve G1/4 0,5-10 with plastic control panel nut
DVU.01	9.6101.00.504.0V	Relief valve G1/4 0,2-7
DVU.01 S/KS	9.6101.00.50401V	Relief valve G1/4 0,2-7 with plastic control panel nut

Relief valve | BG3



Image shows:
9.6133.00.500.0V

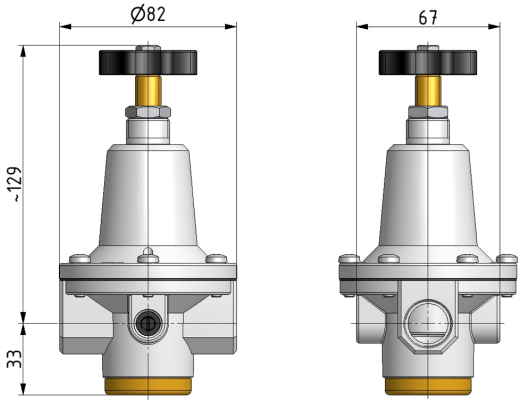
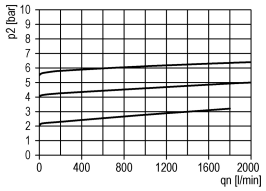
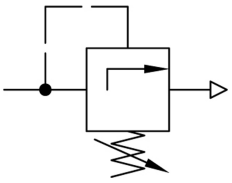


Image shows:
9.6133.00.500.0V

pressure characteristics



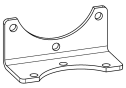
symbol



technical data

- **adjustment range P2 max.:** 3 bar
- **description:** spring loaded diaphragm-relief-valve opening pressure adjustable
- **medium:** compressed air, non corrosive gases (other media available upon request)
- **temperature range:** 0 - 60°C
- **fixing:** panel mounting, ø30,5

accessories



- **mounting bracket:** BW.30
- **control panel mounting:** nut DR.11-7

type	part-number	description
DVU.33	9.6133.00.500.0V	Relief valve G1/2 0,1-3
DVU.33	9.6133.00.517.0V	Relief valve G1/2 0,5-10
DVU.33	9.6133.00.520.0V	Relief valve G1/2 0,1-1
DVU.33	9.6133.00.550.0V	Relief valve G1/2 0,2-5,5

Central filter lubricator unit | --



Image shows:
9.2455.00.000

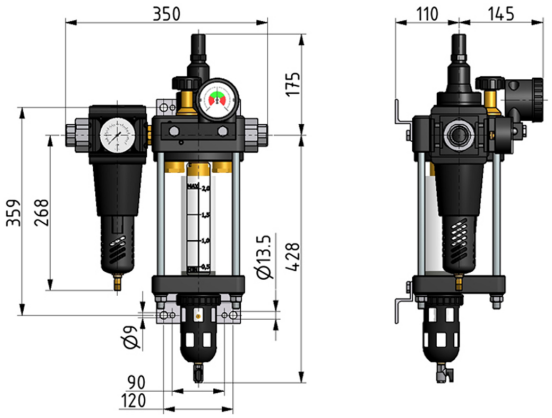
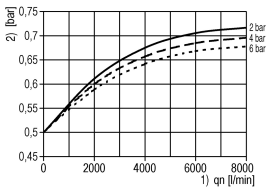
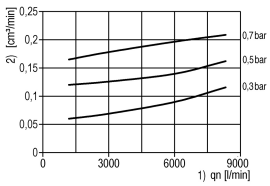


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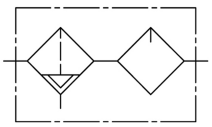
flow characteristic



oil mist activation



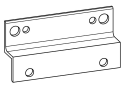
symbol



technical data

- **description:** differential pressure regulated central-lubricator
- **supply pressure P1 max.:** 10 bar
- **temperature range:** 0 - 60°C
- **mounting:** vertical, drain down
- **fixing:** install in pipe line, mounting bracket
- **operating differential pressure area:** 0,3 - 1 bar
- **recommendated operating differential pressure area:** 0,5 bar
- **bowl volume:** 2 l
- **flow range:** 80 - 7000 l/min
- **recommendated oil viscosity:** 32 c St / 40°C
- **kind of oil:** CL 32 DIN 51517 - ISO VG 32
- **grade of filtration of prefilter:** 40 µm (absolutely)
- **oil miost particle size:** 0,3 - 2 µm

accessories



- mounting bracket: ZFL.55-22



- condensation drain: KA-212 AM10



- fine filter silencer: FSD.33 + FSD.34 + FSD.55

type	part-number	description
ZFL.55	9.2455.00.000	Central filter lubricator unit G1

Central filter lubricator unit | --



Image shows:
9.2488.00.000

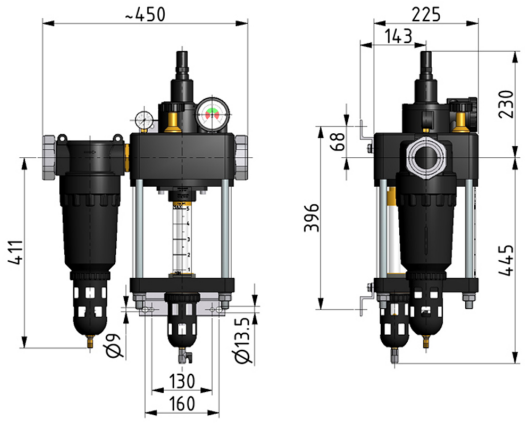
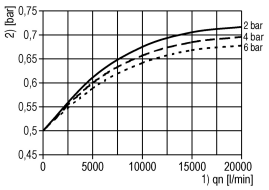
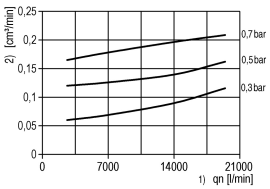


Image shows:
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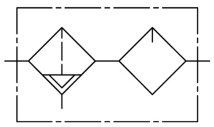
flow characteristic



oil mist activation



symbol



technical data

- **description:** differential pressure regulated central-lubricator
- **supply pressure P1 max.:** 10 bar
- **temperature range:** 0 - 60°C
- **mounting:** vertical, drain down
- **fixing:** install in pipe line, mounting bracket
- **operating differential pressure area:** 0,3 - 1 bar
- **recommendated operating differential pressure area:** 0,5 bar
- **bowl volume:** 5 l
- **flow range:** 250 - 20000 l/min
- **recommendated oil viscosity:** 32 c St / 40°C
- **kind of oil:** CL 32 DIN 51517 - ISO VG 32
- **grade of filtration of prefilter:** 60 µm (absolutely)
- **oil miost particle size:** 0,3 - 2 µm

accessories

- **mounting bracket:** ZFL.88-34



- **condensation drain:** KA-212 AM10



- **fine filter silencer:** FSD.33 + FSD.34 + FSD.55

type	part-number	description
ZFL.88	9.2488.00.000	Central filter lubricator unit G2
ZFL.88 N	9.2488.00.002	Central filter lubricator unit G2 with electrical level controle, without switching electronics

Regulator plate ISO | ISO 1

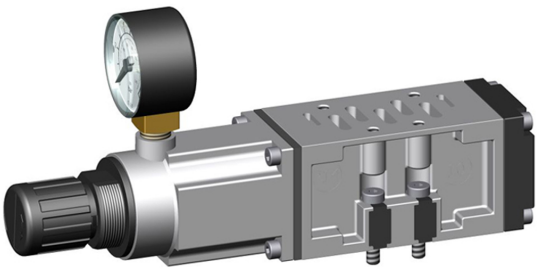


Image shows:
9.1811.00.400

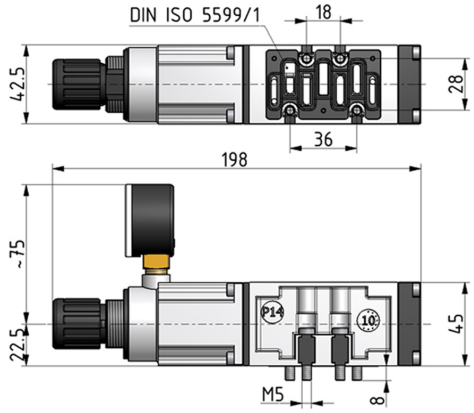
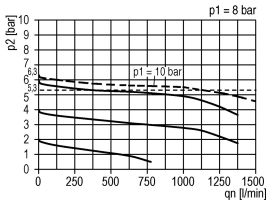
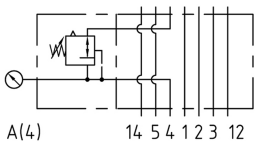


Image shows:
9.1811.00.400

flow characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 50°C
- **fixing:** about connection plate
- **series:** ISO 1
- **regulation:** A
- **port size:** regulation on 4 according to VDMA 24563

accessories

- gauge on the back



- gauge vertical: G 40.10/16 S
- adapter for gauge with rear connection: ISO.1-12

type	part-number	description
ISO.1 A	9.1811.00.400	Regulator plate ISO.1 (regulating at 4) 0,5-12
ISO.1 A GS	9.1811.00.401	Regulator plate ISO.1 (regulating at 4) 0,5-12 with gauge G 40.10/16 S
ISO.1 B	9.1811.00.600	Regulator plate ISO.1 (regulating at 2) 0,5-12
ISO.1 AB	9.1811.00.800	Regulator plate ISO.1 (regulating at 4/2) 0,5-12

Regulator plate ISO | ISO 1

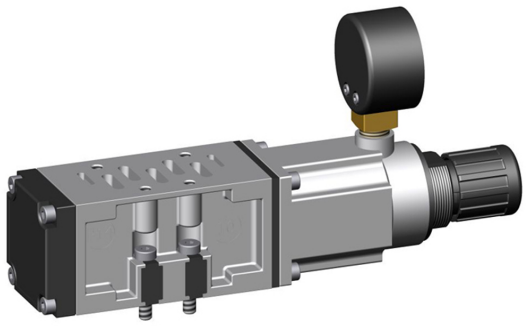


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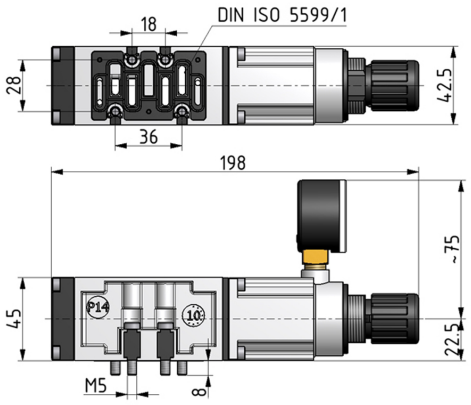
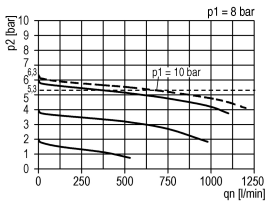
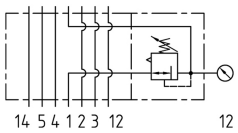


Image shows:
9.1811.00.000

flow characteristic



symbol



technical data

- **description:** air line regulator with diaphragm and relieving feature
- **supply pressure P1 max.:** 16 bar
- **temperature range:** 0 - 50°C
- **fixing:** about connection plate
- **series:** ISO 1
- **regulation:** P 12
- **port size:** regulation on 12 according to VDMA 24563

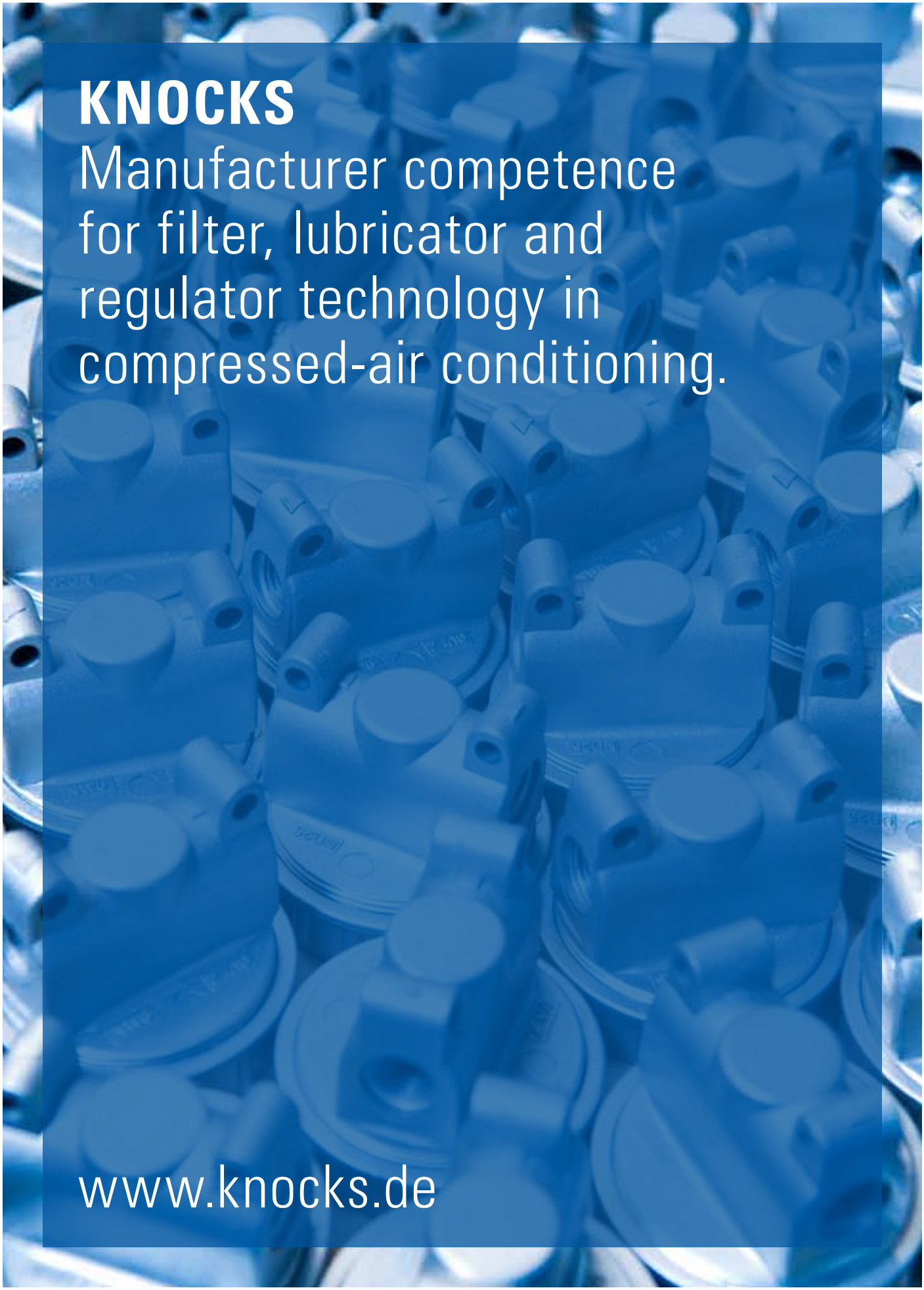
accessories

- gauge on the back



- gauge vertical: G 40.10/16 S
- adapter for gauge with rear connection: ISO.1-12

type	part-number	description
ISO.1 P12	9.1811.00.000	Regulator plate ISO.1 (regulating at 1) 0,5-12
ISO.1 P12 G	9.1811.00.001	Regulator plate ISO.1 (regulating at 1) 0,5-12 with gauge G 40.10/16 S
ISO.1 P14	9.1811.00.200	Regulator plate ISO.1 (regulating at 1) 0,5-12


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Temperature stability

Pressure monitoring = possible

Micro-filter monitoring = possible



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Pressure monitoring = possible

Micro-filter monitoring = partially possible



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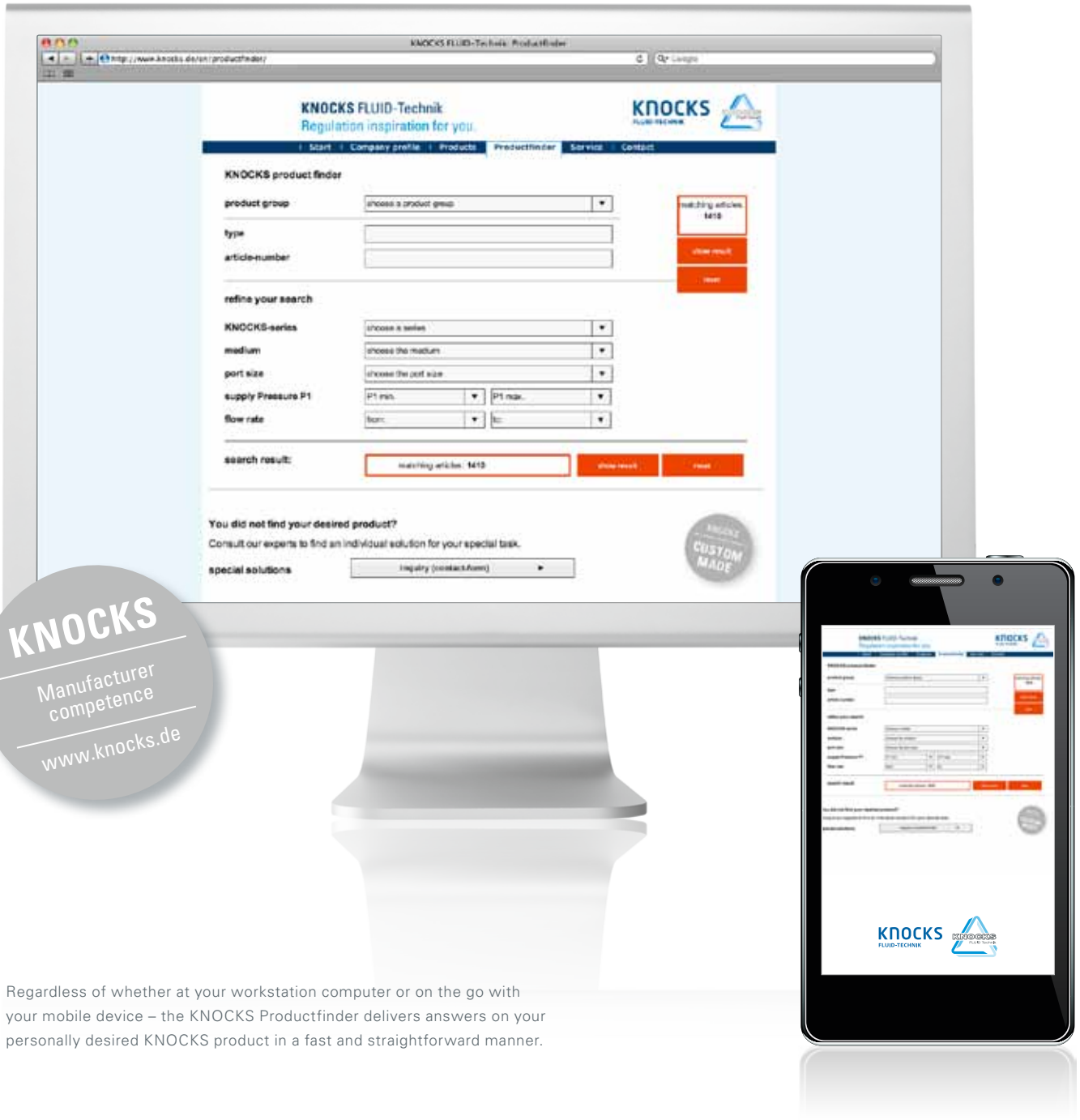
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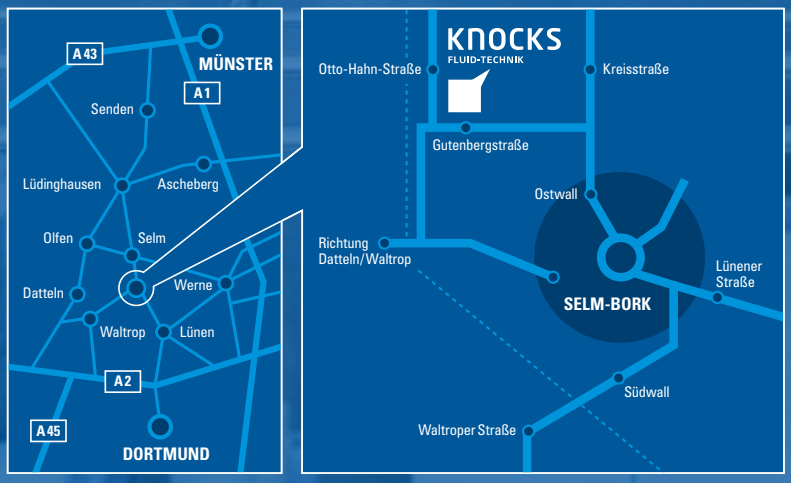
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