
ACCESSORIES
2025
PROFI MESS GMBH
MECHANICAL ACCESSORIES

BE-01

Inflow and Outflow Calming-Section for Flowmeters

Features

/ Brass or stainless steel versions

/ O-Ring or flat seal

/ Inflow section length 10 x DN

/ Outflow section length 5 x DN

/ Easy to mount

/ Pressure up to PN 350

/ Temperature up to 160°C

/ High chemical resistance

/ Thread as per DIN EN ISO 228-1

Description:

The BE-01 inflow and outflow sections are developed to produce a rectification of the flow profile, as well as to reduce swirl effects and thus allow accurate and repeatable flow measurement. The series BE-01 is made of brass or high quality stainless steel (1.4571) and therefore has a high chemical resistance to a number of industrially used liquids and gaseous media. The process connection is made by connecting thread to DIN EN ISO 228-1 and ensures a quick and safe installation. When using commercially available pipes and fittings as inflow or outflow sections, the seal often poses a danger to the measuring instrument. Thus, for example, excessing sealing material, such as hemp or Teflon®tape, can wind around the sensor and cause a permanent damage. The inflow and outflow sections of the series BE-01 are neatly and securely sealed with O-rings or flat seals.

Application:

BE-01 inflow and outflow sections are suitable for liquids and gaseous media. They can be used everywhere in the industry, where asymmetrical flow affect the measurement. BE-01 are ideally suited as inflow and outflow section for flow sensors, flow meters or flow switches.

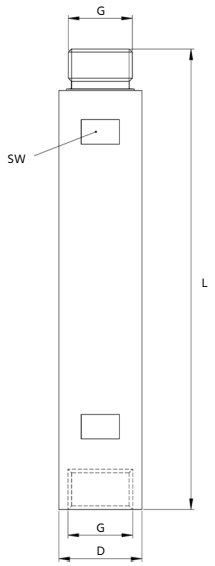
Technical Specifications:

Housing material /	brass or stainless steel 1.4571
Process connection /	as per DIN EN ISO 228-1
Seal /	O-ring or flat seal
Media /	liquids or gases
max. Temperature /	160 °C (depending on the O-ring material used)
O-ring NBR:	100 °C
O-ring FKM:	100 °C
O-ring EPDM:	160 °C
Flat seal PTFE:	160 °C
max. Operating pressure /	
with flat seal:	16 bar
with O-ring:	depending on the type (see table)

Op. pressure with O-Ring:

max. Operating pressure	Housing material brass		Housing material stainless steel	
	< 120 °C	< 160 °C	< 120 °C	< 160 °C
BE-01.1a (G ¼", inflow) **BE-01.1b (G ¼", outflow)**	**300 bar**	**140 bar**	**350 bar**	
BE-01.2a (G ½", inflow) **BE-01.2b (G ½", outflow)**	**260 bar**	**110 bar**		
BE-01.3a (G 1", inflow) **BE-01.3b (G 1", outflow)**	**210 bar**	**90 bar**	**300 bar**	

Dimensions in mm:



Sizes (mm)	G male	G female	DN	L	D	SW
BE-01.1a (G ¼", inflow)	¼"	¼"	8	80	18	16
BE-01.1b (G ¼", outflow)				40		
BE-01.2a (G ½", inflow)	½"	½"	15	150	27	24
BE-01.2b (G ½", outflow)				75		
BE-01.3a (G 1", inflow)	1"	1"	25	250	40	36
BE-01.3b (G 1", outflow)				125		

Ordering Codes:

Order number	BE-01.	2.	1.	1

BE-01 Calming section

Type /
1 = G ¼", full set (inflow and outflow)
1a = G ¼", 1x inflow
1b = G ¼", 1x outflow
2 = G ½", full set (inflow and outflow)
2a = G ½", 1x inflow
2b = G ½", 1x outflow
3 = G 1", full set (inflow and outflow)
3a = G 1", 1x inflow
3b = G 1", 1x outflow

Material /
1 = brass
2 = stainless steel 1.4571

Sealing /
1 = flat seal PTFE
2 = O-ring NBR (standard for housing material brass)
3 = O-ring FKM (standard for housing material stainless steel)
4 = O-ring EPDM

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WS-64

Adapter

Features

/ Economical

/ Temperature decoupling

/ Various materials

Description:

The WS-64 is an adapter according to DIN 16281 for the installation of pressure measuring instruments. Using an adapter could makes sense, wherever an instrument can not be connected directly to the pipe. This could be the case, when the plant offers not enough space or the operator wishes to observe all devices conveniently in one place. The WS-64 is also an economical, though not quite as effectve, alternative to conventional cooling lines and can be used for temperature decoupling to protect heat-sensitive devices from radiated heat.

Application:

The adapter can be mounted, for example, with a wall-mounting bracket, in order to securely connect a pressure gauge with a hose or pipe. The various materials and connection sizes make the WS-64 versatile for application.

Technical Specifications:

Process connection /	G ½" or G ¼"
max. Pressure /	400 bar / brass 250 bar
max. Temperature /	
Brass:	120°C
Steel:	200°C
Stainless Steel:	200°C
Material /	
Body:	brass, steel, SS 1.4571

Ordering Codes:

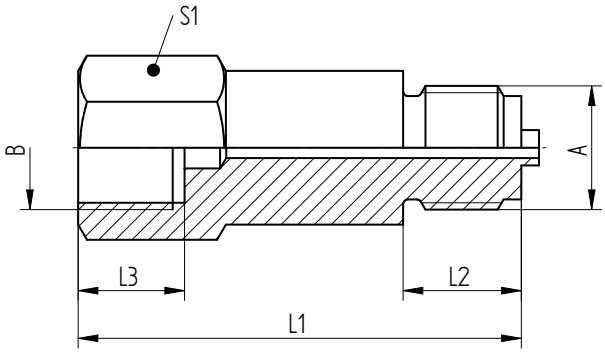
Order Number	**WS-64.**	**1.**	**2**

WS-64 Adapter

Process connection /
1 = G ½"
2 = G ¼"

Material /
1 = brass (G ½" only)
2 = steel
3 = stainless steel 1.4571

Dimensions in mm:



Version	L1 / mm	L2/ mm	L3 / mm	S1
Brass G½"	75	20	18	27
Steel G¼"	69	13	11	27
Steel G½"	75	20	18	27
SS 1.4571 G¼"	69	13	11	27
SS 1.4571 G½"	75	20	18	27

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SR-61

Siphon

Description:

Siphons can be used to protect pressure measuring devices, like pressure gauges, from high temperatures or pressure surges and pulsations. They are available with a straight, circular (DIN 16282 C) or U-shaped (DIN 16282 A) pipe with 90° turn.

Features

/ Cost-effective

/ Up to 400°C

/ Up to 160 bar

/ Cooling-line and particle-filtration

Application:

The large surface of the tube will cool the media with the ambient air temperature. Flowing through multiple curves or a circle dampens pressure surges and keeps the pressure at the device constant. A siphon can be used for fluids, gases and even steam. It can be installed with a G ½" connection. The curvature of the pipe also helps to protect the device from particles, since these can be deposited here.

Technical Specifications:

Process connection / G ½"

max. Pressure /

at 120°C: 160 bar

at 300°C: 120 bar

at 400°C: 100 bar

Material /

Body: steel, SS 1.4571

Ordering Codes:

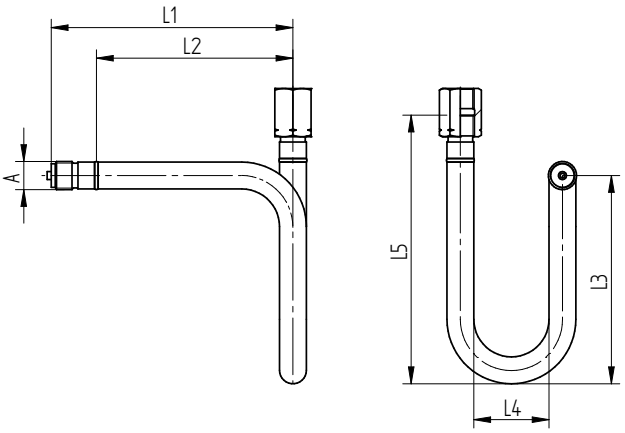
Order number	**SR-61.**	**1.**	**2**

SR-61 Siphon

Style /
1 = U-shape (DIN 16282 A)
2 = U-shape long (DIN 16282 A)
3 = circular (DIN 16282 C)

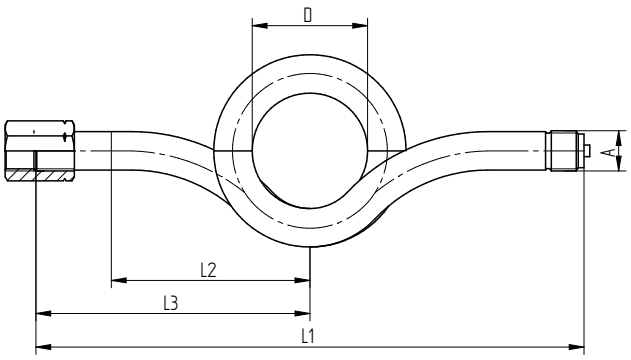
Material /
1 = steel
2 = SS 1.4571

Dimensions in mm (U-Shape):



Version	L1 / mm	L2 / mm	L3 / mm	L4 / mm	L5 / mm
Steel	180	145	155	56	200
Steel (long)	255	220	155	56	200
Stainless Steel	180	145	155	56	200
Stainless Steel (long)	255	220	155	56	200

Dim. in mm (circular):



Version	L1 / mm	L2 / mm	L3 / mm	D
Steel	275	95	130	56
Stainless Steel	275	95	130	56

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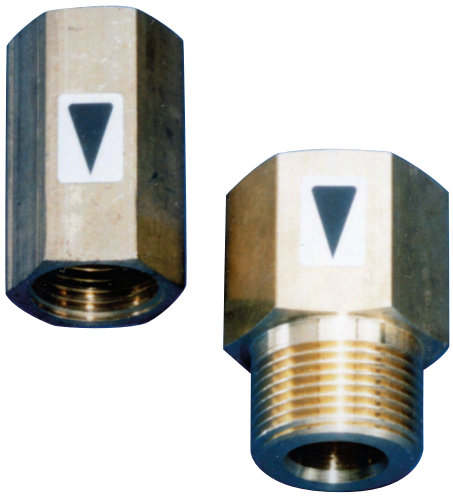
BG-01

Flow Limiter



Features

/ Flow quantity regulation without auxiliary power supply

/ Power-saving by limiting of flow

/ Compact design

/ Easy to mount

/ All-metal version without plastics

/ Brass or stainless steel material

Description:

The BG-01 series of flow limiters has been developed for limiting the flow of water-like media to a particular value. They ensure that the flow value does not exceed even during fluctuating forward or reverse pressures. In contrast to most of the devices of this type normally available in the market, the BG-01 limiters have a stainless steel spring element instead of the commonly used plastic membrane. As a result of the differential pressure occurring over the limiter, the spring element gets pressed more or less against the sealing surface of the housing. The split opening between the sealing surface and the spring varies continually. As a result of the enlargement of the split opening when the pressure falls or, as the case may be, its decrease when the pressure rises, the quantity of fluid passing through the device is maintained at a constant rate.

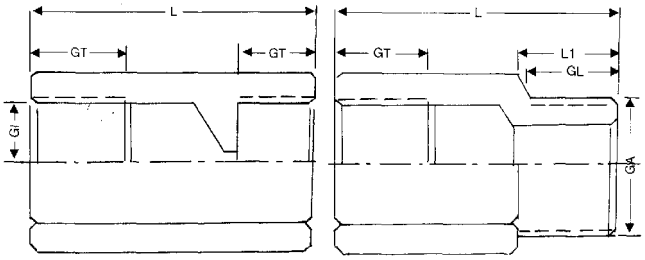
Application:

These devices are used for all water-like media. They can be deployed in water distribution systems in the industry, in sanitary and car-washing installations and in other fields.

Technical Specifications:

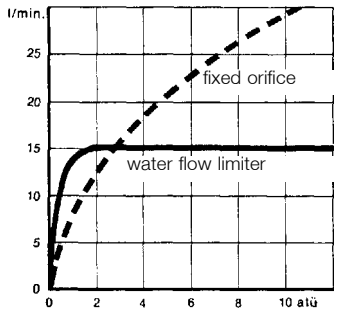
min. Regulating pressure /	2 bar
max. Differential pressure /	10 bar
max. Temperature /	200 °C
Accuracy	up to 2l/min ± 15%
for H_2O at 20°C /	from 3l/min ± 10%
Wetted materials /	
Body:	brass / st. steel 1.4305
Star:	st. steel 1.4310
Cone:	st. steel 1.4301
Rivet:	st. steel 1.4301
Locking ring:	1.4122

Dimensions:

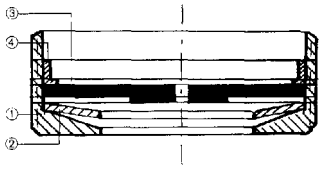


Type	L	GT	GL	GI	GA	SW	L1	Weight g
BG-01.1	43	14		G ½		27		72
BG-01.2	45	15		G ¾		30		125
BG-01.3	43	14	14	G ½	G ½	27	16	104
BG-01.4	45	15	15,5	G ¾	G ¾	30	18	135

Functioning and Structure:



Proportional to the pressure, the free cross section is decreased as the pressure increases. This ensures constant flow quantity.



1) housing
2) ring funnel
3) regulating orifice
4) clamp ring

Ordering Codes:

Order number	**BG-01.**	**1.**	**2.**	**[][].**	**0**

BG-01 Flow Limiter

Process connection /
1 = G ½-female both sides
2 = G ¾-female both sides
3 = inlet G ½-female, outlet G 1/2-male
4 = inlet G ¾-female, outlet G 3/4-male

Material /
1 = brass
2 = stainless steel

Flow quantity /
[ ] [ ] = 01. . .30l/min in 1l/min steps

Special version /
0 = none
1 = please specify in detailed text

Flow quantities:

1 - 30 l/min water in 1 l/min steps.
The flow quantities are given according to the design of the devices and cannot be changed by the customer.
By adding several individual elements nearly any flow value can be achieved (see data sheet BG-03).

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BG-03

Flow Limiter for Large Quantities of Flow

Features

/ Regulation without ext. power supply
/ Power-saving
/ For diameters DN20 to DN100
/ For screw fitting in existing pipes
/ All-metal version
/ Brass or stainless steel material

Description:

The BG-03 series of flow limiters has been developed for limiting the flow of water-like media to a particular value. They ensure that the flow value does not exceed even during fluctuating forward or reverse pressures. In contrast to most of the devices of this type normally available in the market, the BG-03 limiters have a stainless steel spring element instead of the commonly used plastic membrane. As a result of the differential pressure occurring over the limiter, the spring element gets pressed more or less against the sealing surface of the housing. The split opening between the sealing surface and the spring varies continually. As a result of the enlargement of the split opening when the pressure falls or, as the case may be, its decrease when the pressure rises, the quantity of fluid passing through the device is maintained at a constant rate. A version for flanged installation is optionally available. In doing so, the BG-03 will be intermediated flange clamped (flanges/adapter not included).

Application:

These devices are used for all water-like media. They can be deployed in water distribution systems in the industry, in sanitary and car-washing installations and in sterilization and water treatment installations.

Technical Specifications:

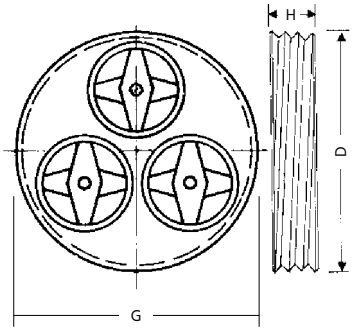
min. Regulating pressure / 2 bar

max. Differential pressure / 10 bar

max. Temperature / 200 °C

Accuracy / up to 2l/min ± 15%
up to 3l/min ± 10%

Dim. Threaded version:



Version (G)	H	Q_{min} l/min	Q_{max} l/min	Weight (g)
¾"	12	1	30	25
1 ½"	12	3	90	104
2"	15	5	150	190
2 ½"	15	7	210	290
3"	15	9	270	375

Ordering Codes:

Order number	BG-03.	1.	3.	[][][]

BG-03 Flow limiter

Material /
1 = brass (not for flange)
2 = stainless steel

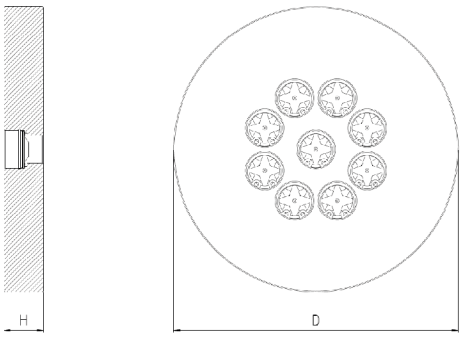
Size /

Threaded version
1 = G ¾"
2 = G 1 ½"
3 = G 2"
4 = G 2 ½"
5 = G 3"

Flange version
10 = DN40
11 = DN50
12 = DN65
13 = DN80
14 = DN100

Flowrate /
[][][] = in l/min. water (1-420 l/min.)

Dim. Flange version:



mm Nom. Diameter	Stars	Pressure rate adapter flange	Flowrate l/min. min.	Flowrate l/min. max.	H mm	D mm
ND40	2	PN 16 / 300 lbs	2	60	19.1	95
ND50	4	PN 16	4	120	18.0	110
ND50	4	300 lbs	4	120	23.9	113
ND65	7	PN 16 / 300 lbs	7	210	23.9	130
ND80	9	PN 16	9	270	20.0	145
ND80	9	300 lbs	9	270	23.9	150
ND100	14	PN 16	14	420	20.0	165
ND100	14	300 lbs	14	420	23.9	182

Flowrates flange:

Flowrate for H_2O at 20 °C in l/min

Type	Q_{min}	Q_{max}
DN40	2	60
DN50	4	120
DN65	7	210
DN80	9	270
DN100	14	420

Flow quantities:

Various individual elements can be supplied for the following flow quantities:
1 - 420 l/min water in 1 l/min steps.
By adding several elements on one limiter disc, nearly any flow quantities can be achieved.

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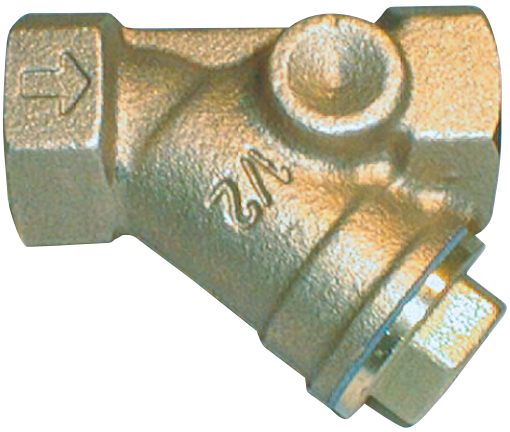
FT-01

Strainer with and without Magnetic Separator



Features

/ For pipes of G 1/4“ to G 2“

/ Filter mesh from 0.25 to 1 mm

/ Compact design

/ Gunmetal or st. steel

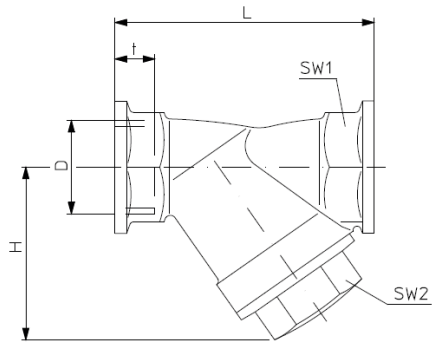
Description:

The FT-01 series of strainers is designed as slanted seat filter; they reliably prevent damages to the devices installed inside the pipe caused by impurities in the medium. Especially measuring devices with magnetic components can be protected by strainers with magnetic separators against malfunctioning due to ferrite particles.

Application:

The strainer has to be installed in the marked direction of flow and the filter should point downwards so particles can be deposited accordingly. The FT-01 can be used for fluids, gases (with the exception of fluids group 1 from guideline 2014/68/EU) and vapours up to 150°C, water, mineral, gear, heating and hydraulic oils etc. so as to protect pumps, gearboxes and flow measuring devices.

Dimensions Gunmetal:



Version: with magnetic separator, mesh 0,60 mm

D	L	t	H	SW1	SW2
¼"	56	11	34	21	17
3/8"	63,5	10,1	34	21	17
½"	66,5	13,2	42	27	22
¾"	76,5	14,5	52	32	27
1"	90	15	61	38	32
1 ¼"	112	18	73	47	41
1 ½"	120	18	82	54	46
2"	150	22	94	66	56

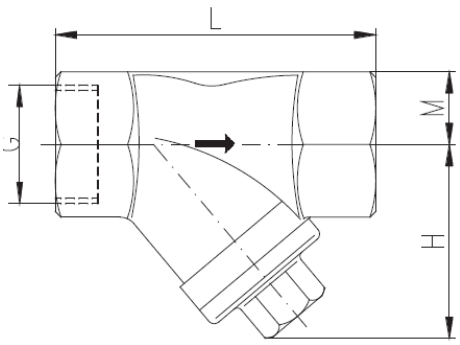
Version: without magnetic separator, mesh 0,25 mm

D	L	t	H	SW1	SW2
¼"	56	11	34	21	17
3/8"	63,5	10,1	34	22	17
½"	66,5	13,2	42	27	22
¾"	76,5	14,5	52	32	27
1"	90	15	61	38	32
1 ¼"	112	18	73	47	41
1 ½"	120	18	82	54	46
2"	150	22	94	66	56

Version: with magnetic separator, mesh 0,60 mm

D	L	t	H	SW1	SW2
½"	66,5	13,2	42	27	22
¾"	76,5	14,5	52	32	27
1"	90	15	61	38	32
1 ¼"	112	18	73	47	41
1 ½"	120	18	82	54	46
2"	150	22	94	66	56

Dimensions Stainless Steel:



Version: without magnetic separator, mesh 0,50 mm

D	L	M	H
½"	65	12,5	42,5
¾"	75	15,5	49
1"	90	18,5	57,5
1 ¼"	110	23	65
1 ½"	120	26,5	74
2"	150	33,5	85

Version: without magnetic separator, mesh 0,25 mm

D	L	M	H
½"	65	12,5	42,5
¾"	75	15,5	49
1"	90	18,5	57,5
1 ¼"	110	23	65
1 ½"	120	26,5	74
2"	150	33,5	85

Version: with magnetic separator, mesh 0,50 mm

D	L	M	H
½"	65	12,5	42,5
¾"	75	15,5	49
1"	90	18,5	57,5
1 ¼"	110	23	65
1 ½"	120	26,5	74
2"	150	33,5	85

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Technical Specifications:

Temperature / -10. . .+150 °C gunmetal
-30. . .+180 °C st. steel

Materials gunmetal /

Housing:	gunmetal
Sieve, strainer:	stainless steel
Magnetic system:	hard ferrite

Materials st. steel /

Housing:	SS 1.4408
Sieve, strainer:	SS 1.4301
Seal:	PTFE
Magnetic system:	hard ferrite

max. Pressure /

Gunmetal:	25 bar
Stainless steel:	40 bar (16 bar with magn. separator)

Ordering Codes:

Order number	**FT-01.**	**1.**	**3.**	**4.**	**2**

FT-01 Strainer

Version /
1 = without magnetic separator
2 = with magnetic separator
(for SS only ½" to 1"; for GM ½" to 2")

Material /
1 = gunmetal (for nominal diameters only ¼" to 2")
3 = stainless steel (for nominal diameters only ½" to 2")

Connection /
0 = female thread G ¼" (FT-01.x.1 only)
1 = female thread G 3/8" (FT-01.x.1 only)
2 = female thread G ½"
3 = female thread G 3/4"
4 = female thread G 1"
5 = female thread G 1¼"
6 = female thread G 1½"
7 = female thread G 2"

Filter mesh grade /
1 = 0.6 mm (only gunmetal)
2 = 0.25 mm
3 = 0.5 mm (only SS ½" to 2")

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NV-01

Needle valve

Description:

Profimess' needle valves are intended for precise regulation of the quantity of fluids flowing through pipes. The devices body is constructed in two parts. The upper part is screwed into the body. Designs available in brass, steel and stainless steel in nominal diameters of IG 1/8" to IG 2" allow a wide range of applications which is why these devices are used in the entire industry.

Features

/ Brass, steel or stainless steel

/ Usable up to 550°C

/ Up to PN 400

/ Compact Design

Application:

Profimess' needle valves are deployed wherever flowing fluids in industrial installations need to be shut off, reduced or regulated. The stainless steel version of the valves can be deployed up to 400 bar and 350°C, whereby the dependence of maximum pressure and the operating temperature must be taken into consideration. Higher temperatures, up to 550°C are available on request. They are particularly suitable to be used as shut-off devices in measuring operations in level and flow control.

Technical Specifications:

max. Pressure / 100 to 400 bar, see table

Pressure reduction /

Temperature:	50°C	100°C	200°C	300°C	400°C
Reduction:	6%	15%	37%	60%	84%

max. Media-temp. /
NV-01.1: -20°C to +100°C
NV-01.2: -20°C to +350°C
NV-01.3: -20°C to +250°C
up to 550°C on request

Material NV-01.1 /

Housing:	brass
Headpiece:	brass
Spindle:	brass
Gland base ring:	brass
Spindle sealing:	PTFE
Gland nut:	brass

Material NV-01.2 /

Housing:	steel
Headpiece:	steel
Spindle:	1.4104
Gland base ring:	1.4104
Spindle sealing:	graphite
Gland nut:	steel

Material NV-01.3 /

Housing:	1.4571
Headpiece:	1.4571
Spindle:	1.4571
Gland base ring:	1.4571
Spindle sealing:	PTFE
Gland nut:	1.4571

Ordering Codes:

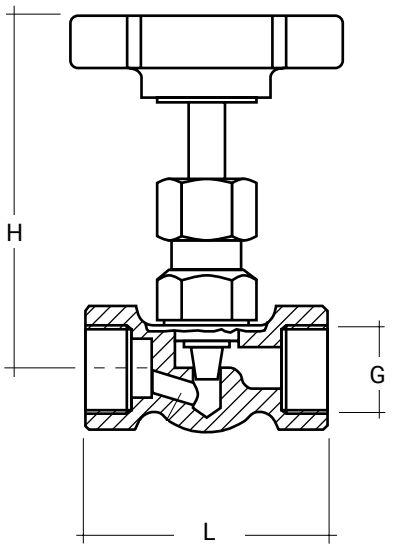
Order number	**NV-01.**	**1.**	**3**

NV-01 Needle Valve

Material /
1 = brass
2 = steel
3 = stainless steel

Process Connection /
1 = IG 1/8"
2 = IG ¼"
3 = IG 3/8"
4 = IG ½"
5 = IG ¾"
6 = IG 1"
7 = IG 1 ¼"
8 = IG 1 ½"
9 = IG 2"

Dimensions in mm:



NV-01.1									
G	1/8"	¼"	3/8"	½"	¾"	1"	1 ¼"	1 ½"	2"
L	50	50	50	50	67	75	110	110	112
H	78	78	78	78	90	90	110	110	120
Kv in m³/h	0,24	0,48	0,6	0,66	1,08	1,62	3,0	3,6	3,6
PN	100	100	100	100	100	100	100	100	100

NV-01.2 and NV-01.3									
G	1/8"	¼"	3/8"	½"	¾"	1	1 ¼"	1 ½"	2"
L	45	55	55	60	75	100	110	130	130
H	72	75	72	77	99	110	145	145	145
Kv in m³/h	0,24	0,48	0,6	0,74	1,35	1,66	3,10	5,56	5,56
PN	400	400	400	400	200	200	160	120	120

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PV-01

High-Precision Control Valve for Gases and Liquids

Features

/ High accurate flow-adjustment
/ Straight or angle designs
/ Cw- or ccw-closing
/ 15-turn spindl
/ Minimal hysteresis
/ Leak-proof when closed
/ Different Cv-values
/ Aluminium, brass or SS versions

Description:

The PV-01 high-precision control valves are intended for precise fine-flow adjustment of gases or liquids flowing through pipes. The control valves consists of an inner valve and a body with straight or angled process connection. The PV-01 has a 15-turn spindle to fully open from a closed condition. The spindle operates practically without any hysteresis and closes leak-proof clockwise or optionally counterclockwise. The valve needle is non-rotating and thus provides a stable adjustment. Various Cv-values ensure optimal control ranges.

Application:

High-precision control valves are deployed wherever flowing gases or liquids in industrial installations require a very fine and accurate adjustment. They are especially suitable for measuring operations in the areas of chemical process engineering, analytical technology, biotechnology, chemical nuclear technology, medical engineering and environmental technology.

Technical Specifications:

Design type /	straight valve, angled valve or valve cartridge for selfmounting (without body)
Rotating direction /	valve cw-closed (standard) or valve ccw-closed
Valve turns /	15-turn spindle, practically without hysteresis
Housing material /	aluminium anodized / brass nickel-plated or stainless steel 1.4305
Seal /	FKM, EPDM or FFKM
Process connection /	G 1/8"-IG, G 1/4"-IG, G 1/2"-IG, NPT 1/4"-IG or G 1/4"-IG female thread for compression fittings
Media /	5 µm filtered compressed air, non-corrosive gases or liquids
max. Operating pressure /	40 bar
min. Operating temp. /	-40 °C
max. Operating temp. /	+100 °C
Leak rate /	< 1 x 10^{-5} mbar l/s He
Options /	- standard knob with locking ring - locking nut (instead of standard knob) - digi-knob, 100 divisions and with display, only right-hand closing

Possible Configurations:

Version	Design size - small	Design size - large
Material (body, seals)	aluminium / brass, FKM; st. steel 1.4305, FKM; st. steel 1.4305, EPDM; st. steel 1.4305, FFKM	aluminium / brass, FKM;
Straight valve	x	x
Angled valve	x	
Valve insert without body	x	x
Cw-closed	x	x
Ccw-closed	x	
Process connection	Standard: G 1/4" Options: G 1/8", NPT 1/4" or G 1/4" for compression fittings	Standard: G 1/2" Options: -
Valve size (needle size)	NG 1.0; NG 1.5; NG 2.0; NG 2.5; NG 3.0	NG 4.0; NG 6.5

Materials:

Component (wetted)	Aluminium / brass	Stainless Steel
Valve	aluminium anodized	St. Steel 1.4305
Valve insert / cartridge	brass nickel-plated	St. Steel 1.4305
Connections	brass nickel-plated	St. Steel 1.4305
Seals	FKM	FKM, EPDM or FFKM

Ordering Codes:

Order number	**PV-01.**	**1.**	**2.**	**2.**	**1.**	**3.**	**6.**	**0**

PV-01 High Precision Control Valve for Gases & Liquids

Design size /
1 = small
2 = large

Material (housing, seals) /
1 = aluminium anodized/brass nickel-plated, FKM
2 = stainless steel 1.4305, FKM
3 = stainless steel 1.4305, EPDM
4 = stainless steel 1.4305, FFKM

Design type /
1 = straight valve
2 = angled valve
3 = valve insert without body

Valve type /
1 = valve cw-closed (standard)
2 = valve ccw-closed

Process connection /
1 = G 1/8" - female thread
2 = G 1/4" - female thread
3 = G 1/4" - female thread, compression fitting
4 = G 1/2" - female thread
5 = NPT 1/4" - female thread

Valve size (needle size) /
1 = NG 1.0
2 = NG 1.5
3 = NG 2.0
4 = NG 2.5
5 = NG 3.0
6 = NG 4.0
7 = NG 6.5

Optionen /
0 = without
1 = standard knob with locking ring
2 = locking nut (instead of standard knob)
3 = digi knob, 100 devisions (for cw-closed valve only)
9 = customer specific version (please specify in detailed text)

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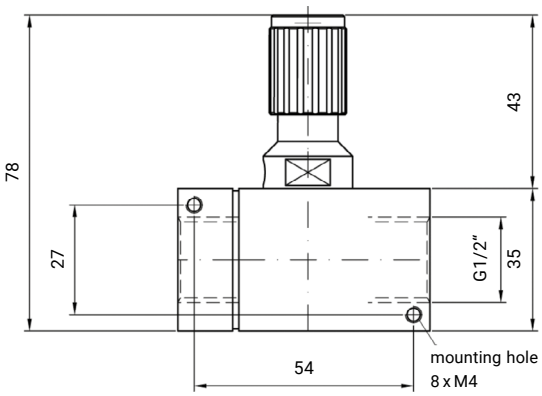
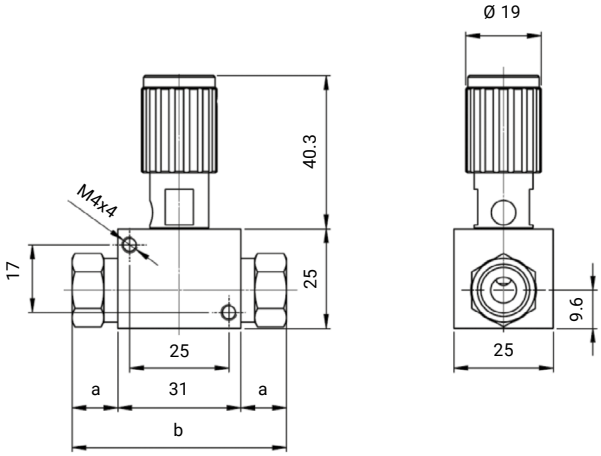
Dimensions in mm:



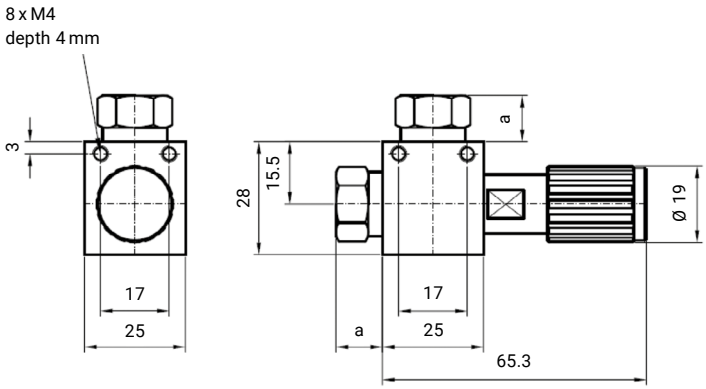
Straight valve - large size

Process connection	length	width
G 1/2" - female thread	62 mm	35 mm

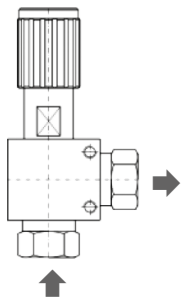


Straight valve - small size

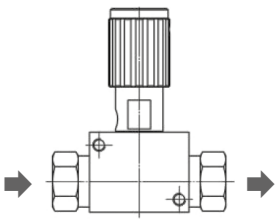
Process connection	a	b	Thread depth
G 1/4" - female thread	12 mm	55 mm	7 mm
G 1/8" - female thread	12 mm	55 mm	8 mm
NPT 1/4" - female thread	16 mm	63 mm	9 mm
G 1/4" - female thread for compression fitting	17 mm	65 mm	12 mm



Angled valve - small size



Angled valve

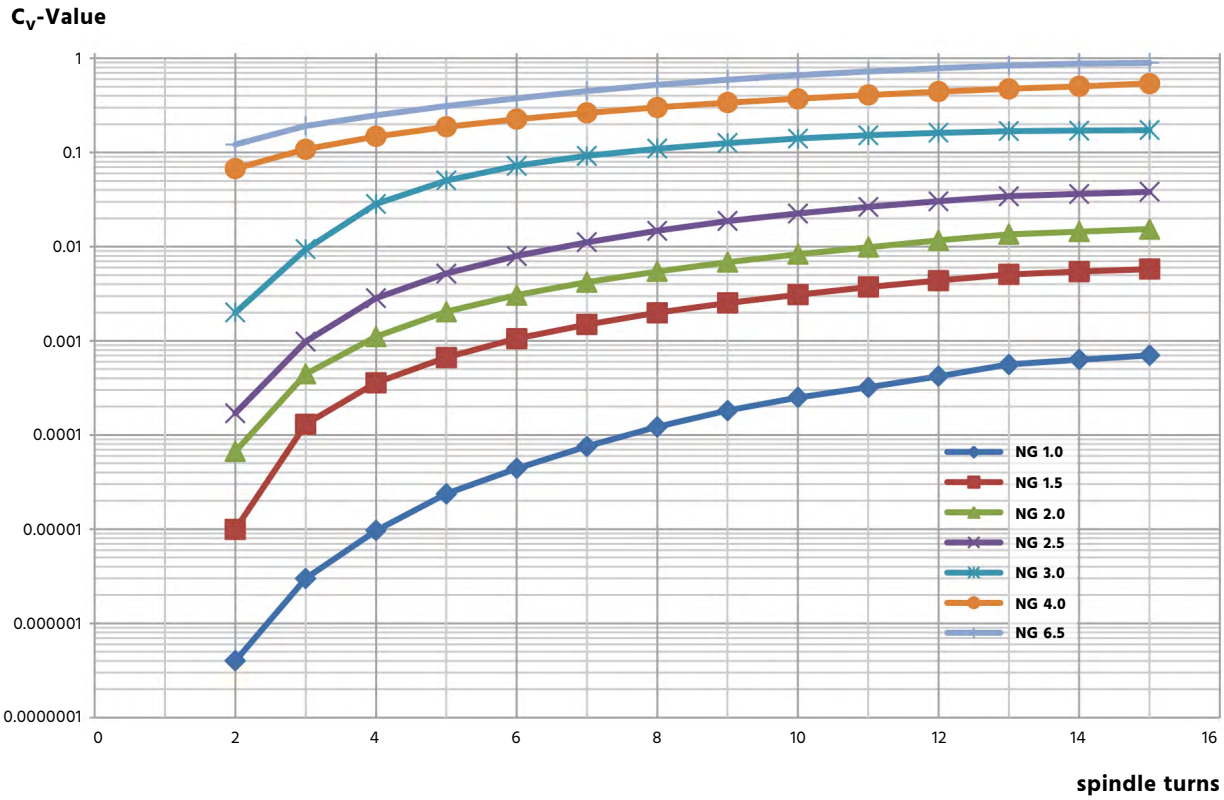


Straight valve

Process connection	a	Thread depth
G 1/4" - female thread	12 mm	7 mm
G 1/8" - female thread	12 mm	8 mm
NPT 1/4" - female thread	16 mm	9 mm
G 1/4" - female thread for compression fitting	17 mm	12 mm

C_v-Values High-Precision Control Valve:

C_v-values for valves NG 1.0 to NG 6.5 (C_v-value 1 = 1 m3/h water at Δ p of 1 bar)



Process connection	1.0	1.5	2.0	2.5	3.0	4.0	6.5
C_v-Value (m^3/h)	0.0007	0.005	0.015	0.038	0.17	0.54	1.00

C_v-Value: For these flow values of water at 20 °C exactly 1 bar pressure will drop at the relevant valve.
These are taken into regard so as to assess the loss of pressure on the valve with reference to the entire range.

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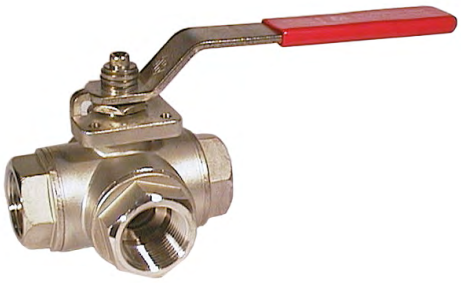
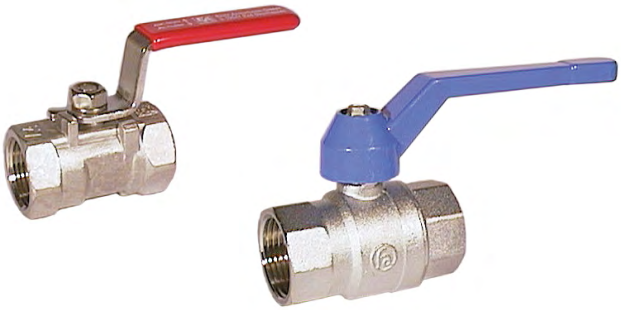
KG-01

Ball Valve in Brass or Stainless Steel





Features

/ High temperature resistance

/ Up to PN64

/ 2 or 3-way versions

/ FKM and PTFE sealings

Description:

The KG-01 series of ball valves are suited for shutting-off the flow of various media. Due to the materials used, such as PTFE, FKM, brass or stainless steel, they are resistant to chemically hostile, gaseous, fluid, viscous, powdery and polluted substances. Permissible ranges of pressure and temperature allow them to be deployed in difficult processes, for example, in chemical and petrochemical industries, in metal and container construction or in the air-conditioning, ventilation and thermal technologies.

Application:

Ball valves have various uses in almost every industrial and private sector. The materials can be easily fitted to the customers needs and their toughness make the Type KG-01 ball valves to reliable devices for House- & Sanitary-technology, plants, oils, petrols, compressed air, chemical processes or heating technology.

Technical Specifications:

Brass version /

max. Testing pressure /	up to 80°C
2-way ball valve:	¼“ up to 2“ PN40 2½“ up to 3“ 4“ PN20 up to 50°C PN40
3-way ball valve:	¼“ up to ¾“ PN30 1“ up to1 ¼“ PN20 1 ½“ up to 2“ PN16
max. Temperature /	-20°C. . .+120°C
Housing /	brass chrome-plated
Ball /	
2-way ball valve:	brass hard chrome-plated
3-way ball valve:	brass chrome-plated
Ball sealing /	
2-way ball valve:	PTFE
3-way ball valve:	PTFE / FKM
Spindle sealing /	
2-way ball valve:	FKM
3-way ball valve:	PTFE / FKM

Stainless steel version /

max. Testing pressure /	up to 80°C
2-way ball valve:	PN40 (PN64 on request)
3-way ball valve:	PN63
max. Temperature /	-30°C. . .+180°C
Housing /	st. steel 1.4408
Ball /	st. steel 1.4401
Ball sealing /	
2-way ball valve:	PTFE
3-way ball valve:	PTFE reinforced w. 15% glassfibre
Spindle sealing /	
2-way ball valve:	PTFE
3-way ball valve:	PTFE/ FKM

Options: flange connection, emptying boring, tetrahedral cap, spindle extension, low-cost versions with reduced passage, pneumatic and electrical drives

Lever Positions:

Handhebel- bzw. Antriebs- montage / Handle or actuator- mou	T-Bohrung/ T-configuration				L-Bohrung/ L-configuration		
	1	2	3	4	5	6	7
Stellung 0°/ 0°-position							
Stellung 90°/ 90°-position							

Ordering Codes:

Order number	**KG-01.**	**1.**	**2.**	**1**

KG-01 Ball Valve

Type /
1 = 2-way, thread female/ femalen
2 = 2-way, thread female/ male
3 = 3-way L boring
4 = 3-way T boring

Material /
1 = brass
2 = stainless steel

Process connection /
1 = G ¼“ (not 3-way stainless steel)
2 = G 3/8“ (not 3-way stainless steel)
3 = G ½“
4 = G ¾“
5 = G 1“
6 = G 1 ¼“
7 = G 1 ½“
8 = G 2“

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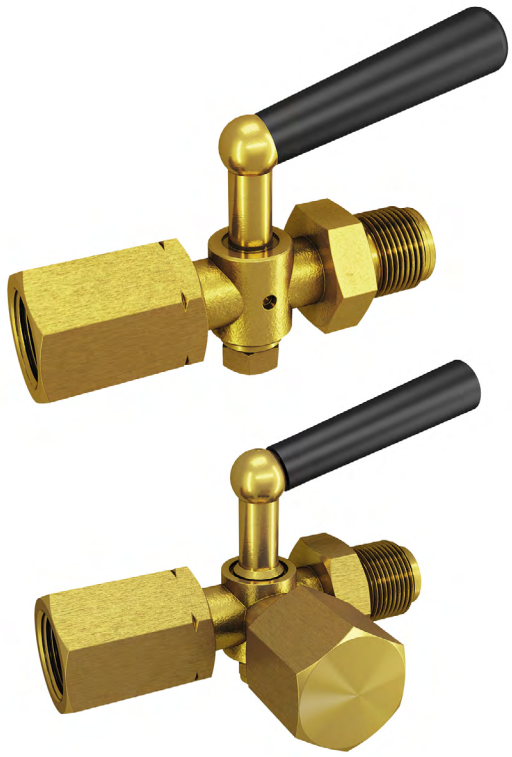


AH-65

Manometer Gauge Stopcock According to DIN 16262 A/B & 16263

Description:

A stopcock is used for the inlet, flow or outlet in pipes to control liquids and gases. Depending on the switchs position, measuring devices can receive pressure (operating mode), or be relieved from it (de-pressuring mode). In the blow-out position, fluids and gasses can pass through the stopcock.

Features

/ Monitor and vent the pipe

/ Brass or stainless steel

/ -10°C to 50°C

/ Up to 25 bar

Application:

Stopcocks are available with or without an additional test connector (DIN 16263). This connector can be used for another measuring device, to test an installed pressure gauge. The stopcock can be installed via G¼" or G½" threads.

Technical Specifications:

Process connection /	G ½" or G ¼"
max. Pressure /	
G ½" Brass:	25 bar
G ½" SS:	16 bar
G ¼" Brass:	6 bar
G ¼" SS:	6 bar
max. Media temperature /	-10°C to 50°C
Materials /	
Body:	Brass, SS 1.4571
Handle:	PP

When connecting to a Manometer, please use flat gaskets DIN 1625!

Ordering Codes:

Order number	**AH-65.**	**1.**	**2.**	**0**

AH-65 Manometer Gauge Stopcock

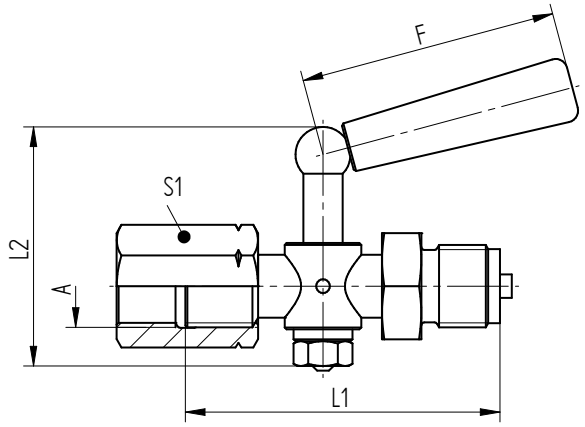
Connection /
1 = G ½"
2 = G ¼"

Material /
1 = brass
2 = stainless steel 1.4571

Test Connector for G½"/
0 = without (DIN 16262 A/B)
9 = with Test Connector M20 x 1.5 (DIN 16263)

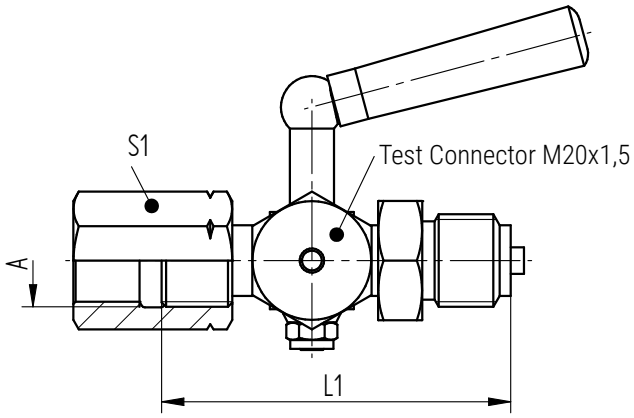
Please consider the pressure as indicated on the left.

Dimensions in mm:



Version	L1 / mm	L2/ mm	F / mm	S1
Brass G¼"	55	39	28	17
Brass G½"	79,5	60	62	27
SS 1.4571 G¼"	57	63	48	17
SS 1.4571 G½"	80	67	60	27

Dimensions (test connector):



Version	L1 / mm	S1
Brass	80	27
SS 1.4571	80	27

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AV-67

Manometer Gauge shut-off Valve according to DIN 16270 A & 16271 A

Features

/ Up to 400 bar and 200°C

/ Closing, opening and throttling

/ Additional test connector

Description:

This shut-off valve can also throttle the pressure in a pipe, instead of just opening and closing it. The AV-67 is, in its stainless steel version, very tough, and can resist pressures up to 400 bar and 200°C. An optional test connector can be used to replace measuring instruments or test the measurement result with another device, without removing it from the process or interrupting the actual operation.

Application:

Shut-off valves can be installed in front of devices operating only within a certain pressure range or a certain amount of media. This way, measuring devices can be started slowly and protected from pressure surges.

Technical Specifications:

Process connection /	G ½"
max. Pressure /	400 bar; 250 bar (Brass)
max. Media temperature /	-10°C to 200°C; resp. -10°C to 120°C (Brass)
Materials /	
Seal:	Steel = Graphite Brass and SS = PTFE
Body:	Brass, Steel 1.0460, SS 1.4571
Handwheel:	Bakelit

When connecting to a Manometer, please use flat gaskets DIN 1625!

Ordering Codes:

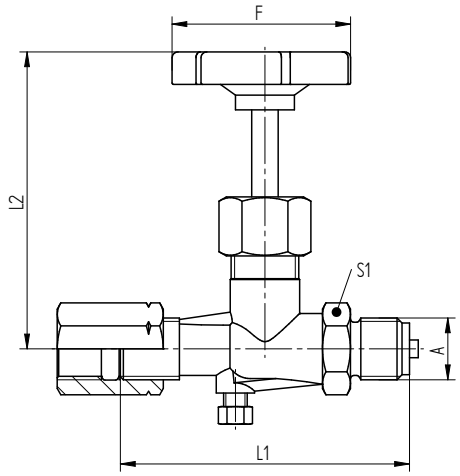
Order number	**AV-67.**	**B.**	**0**

AV-67 Manometer Gauge shut-off Valve

Version /
A = 250 bar - 120 °C - Brass
B = 400 bar - 120 °C - Steel 1.0460
C = 400 bar - 200 °C - SS 1.4571

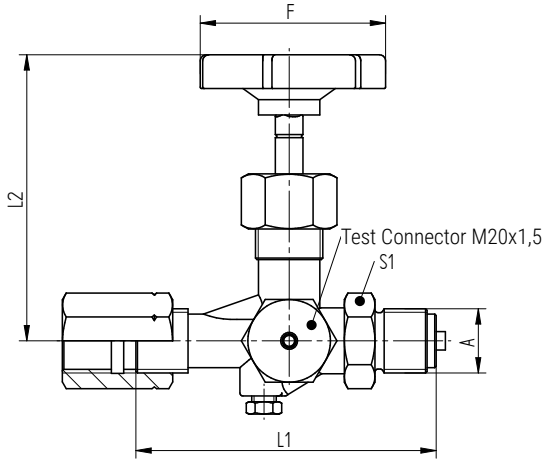
Test Connector /
0 = without (DIN 16270 A)
9 = with test connector M20 x 1,5 (DIN 16271 A)

Dimensions in mm:



Version	L1 / mm	L12/ mm	F / mm	S1
Brass	100	100	63	27
Steel 1.0460	100	94	63	27
SS 1.4571	100	94	63	27

Dimensions (test connector):



Variante	L1 / mm	L12/ mm	F / mm	S1
Brass	100	100	63	27
Steel 1.0460	100	94	63	27
SS 1.4571	100	94	63	27

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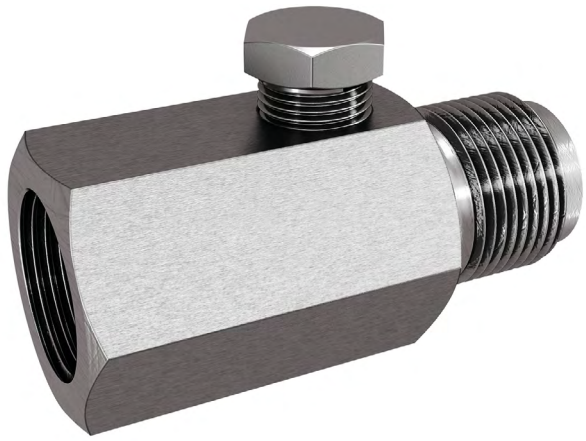
RS-68

Shock Preventer



Description:

The RS-68 is a shock preventer to limit pressure surges and pulsations from damaging pressure gauges and transmitters. It can also be integrated into any process easily, to protect a variety of other devices too. The throttling effect is generated through changing the flows inlet size with an adjusting screw.

Features

/ Variable configuration

/ Easy to handle

/ Different materials

/ PN 250 and PN 400

Application:

Whether in general mechanical endineering, hydraulics, compressors, pumps or plant engineering, the RS-68 is used everywhere, where pressure peaks may occur. The adjusting screw should be screwed in completely, before installing the reducer, because it has to be adjusted to the local measuring conditions. After starting the plant or process, the screw should be screwed outwards just as much as pressure surges can not be seen on the pressure gauges scale anymore. Only fluids without impurities should be used for the reducer to work. Otherwise a clogging of the flow opening can endanger the pressure impulse reducer.

Technical Specifications:

Process connection / G ½" or G ¼"

max. Pressure / 250 bar for brass
400 bar for steel & st. steel

max. Temperature /

Brass: -10°C up to 120°C

Steel: -10°C up to 200°C

Stainless Steel: -10°C up to 200°C

Material /

Body: brass, steel, SS 1.4571

Ordering Codes:

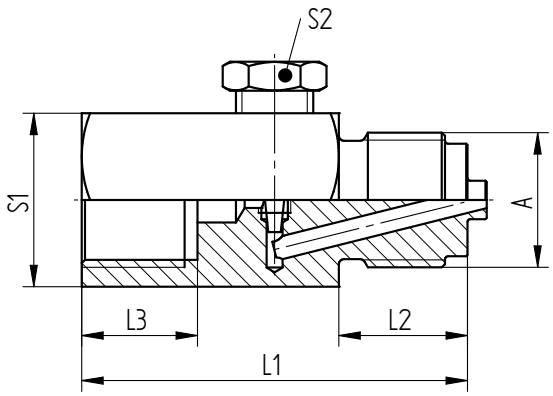
Order number:	**RS-68.**	**1.**	**2**

RS-68 Shock Preventer

Process connection /
1 = G ½"
2 = G ¼"

Material /
1 = brass
2 = steel
3 = stainless steel 1.4571

Dimensions in mm:



Version	L1 / mm	L2/ mm	L3 / mm	S1	S2
Brass G¼"	46	14	11	19	12
Brass G½"	60	20	18	27	14
Steel G¼"	47	13	11	19	14
Steel G½"	60	20	18	27	14
SS 1.4571 G¼"	47	13	11	19	12
SS 1.4571 G½"	60	20	18	27	14

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GH-01

IP66 Connection Box
55 x 55 x 37 mm

Features

/ Protection class IP66

/ Two or three cable glands

/ Self-extinguishing

/ Fully insulated

/ Halogen-free

/ Applicable from -20°C to +90°C

/ Impact resistance 7 Joule

Description:

The connection box GH-01 adds a rough outdoor enclosure to the range of accessories supplied by Profimess. Protection class of this compact housing is IP66, therefore it may even be mounted under harsh weather conditions or in facilities, where water jet cleaning takes place. Two or three pre-assembled M16x1,5 IP68 cable glands for cable diameters from 5 mm up to 10 mm offer enough space for most applications. Optionally two more cable glands (max. four) may be mounted to the free sides of the box.

Application:

GH-01 is used, where ever the interface between a simple switch or sensor in an outdoor area and the supply or signal circuits has to be protected against enviromental influences. The range of application is wide. GH-01 offers a quick, price-worth solution.

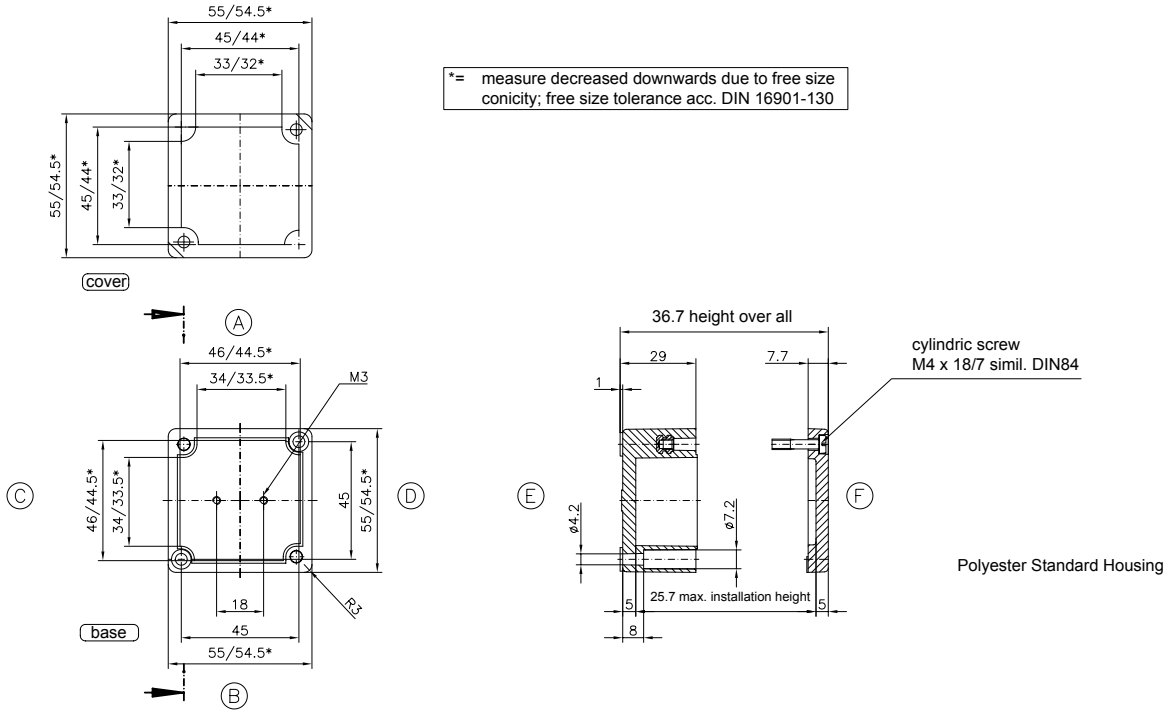
Technical Specifications:

Protection class /	IP66 acc. to EN60529
Material /	glass fibre reinforced, duroplastic polyester
Seal /	flat seal from chloroprene
Colour /	RAL7000, squirrel grey
max. Temperature without cable glands /	-40°C. . .+100°C
Impact resistance /	7 Joule acc. to EN60079-0
Surface resistance /	>10^{12} Ohm, IEC60093
Flammability /	self-extinguishing; UL94 V-0
Insulation /	fully insulated VDE 0100
Disruptive strength /	18 kV/mm, IEC60243-1
Toxicity /	halogen-free
Cable glands /	2 (3) pieces M16 x 1.5 acc. to DIN 5026, pre-assembled
Material:	polyamid 6 V2
Colour:	light grey, RAL 7035
Protection class:	IP68 5 bar
Temperature range:	-20°C. . .+100°C
Cable diameter:	5. . .10 mm
Thread length:	8 mm

Ordering Codes:

Order number	**GH-01.**	**1**
IP66 Connection Box		
Electrical connection / 2 = two cable glands 3 = three cable glands		

Dimensions in mm:



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