2/2-way drain valves NO, DN 50, IP 65, IP 68

Series 04.050.916

Valve body: PPE

Valve body: PPE
EC 1935

Valve body: PVDF

Valve body: Stainless steel

Description

2/2-way direct acting dump valve of nominal diameter DN 50 for controlling low aggressive liquid media, such as cleaning or disinfection agents, direct acting with normally open operation mode NO (normally open).

Valves of this type are medium separated having a single chamber valve body with the inlet at ninety degrees to the outlet. They can be manufactured in various materials and equipped with threaded or hose connections. The electrical operational safety is guaranteed by the electrical insulation coordination, which corresponds to the VDE 110 regulations. The manufacturing process includes a 100% electrical safety test in accordance with the VDE 0631 Part 1000 regulations.

Protection type IP 68 is achieved in conjunction with cable connection, IP 65 by using a mounted connector.

Valve housing made of PPE or stainless steel is suitable for hot water. Valve housing made of PVDF have a higher resistance to chemicals whereas stainless steel has both features.

The smooth internal shape improves liquid flow and avoids dirt traps. The valve bodies can be equipped with an additional flush spout.

Approvals

- VDE Registered
- UL available variants
- EC 1935 variants on request
- Other approved versions on request.

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

A.u.K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de

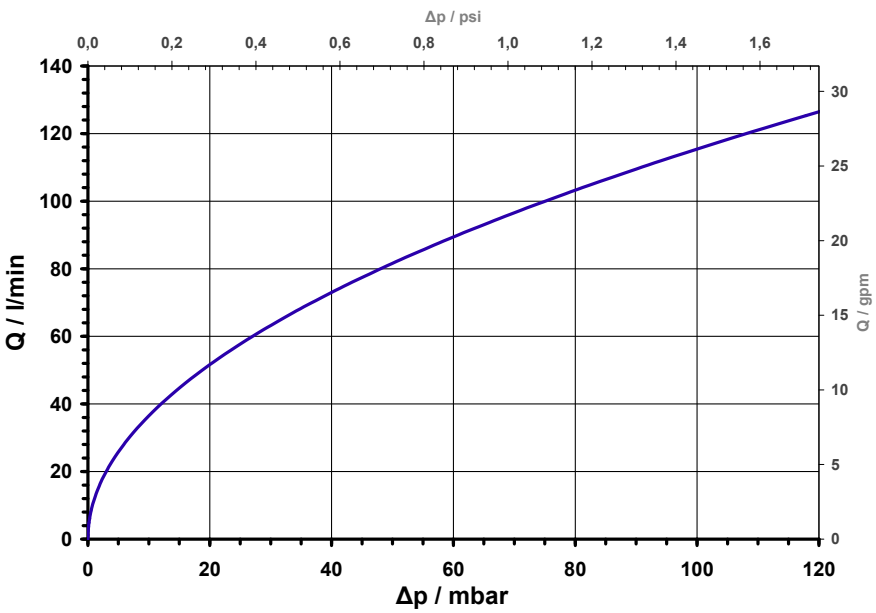
Characteristics

- Direct acting
- Protection type IP 68 using cable, respectively IP 65 using connector
- Normally open (NO)
- Potted coil
- Coil system protected against corrosion by separation from medium by membrane
- Optional valve body made of PVDF or stainless steel and FKM membrane for higher resistance to chemicals
- Optional flush spout on valve body
- Long term performance capability
- Maximum medium temperature 98 °C (208 °F)
- No minimal pressure required
- Suitable for spray- and jet water
- UL approved versions available
- High operating safety by the use of high quality materials and 100% final testing of the products

Applications

- Industrial washing machines and dishwashers
- Cleaning devices for medical equipment
- Cleaning and disinfection systems in the dairy industry and process engineering

Typical Performance Curve



Series 04.050.916

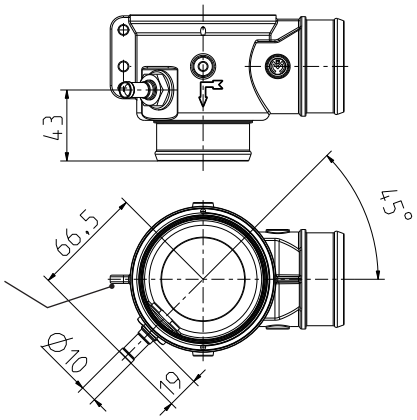
Valve body: PPE

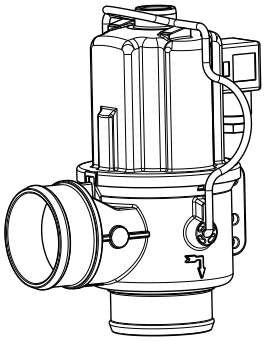
Valve body: PVDF

Thickness of the mounting flange for all valve bodies: 5 mm (0.197 in)

Valve body: Stainless steel

Optional flush spout





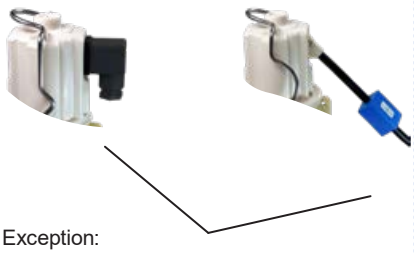
Materials

Valve body	PPE, PVDF, stainless steel
Plunger guide	Stainless steel
Plunger and spring	Stainless steel
Flush spout	Stainless steel
Membrane and sealings	EPDM FKM
Coil coating	PBT PU potting

The combination of stainless steel valve body and FKM membrane is particularly recommended for use in sterilization and disinfection equipment.

Technical Data

Type	Drain valve	
Construction	2/2-way-solenoid valve, direct acting	
Function	NO (normally open)	
Fitting position	Solenoid pointing upwards	
Media	Low aggressive media, such as cleaning or disinfection agents within potable water	
T-Medium **PPE** **Stainless steel** **PVDF**	 5 - 98 (41 - 208 5 - 98 (41 - 208 5 - 50 (41 - 122)	 °C °F) °C °F) °C UL approvals °F)
T-Ambient	5 - 60 (41 - 140	°C °F)
DN	50 (1.969	mm in)
p-Operating	0 - 120 (0 - 1.74)	mbar (psi)
Coil type	MS 10 integrated protection circuit (high voltage peak limitation) and rectifier	
Nominal voltage	12 24 24 110 200-240 400	V DC V DC V AC/DC V AC/DC V AC/DC V AC/DC *)
Voltage tolerance	±10%	
Duty cycle	100 %	
Nominal power	24	W
Protection Type According to EN 60529	IP 68 IP 65	With cable H07RN-F 361** With plug socket according to EN 175301-803
Insulation class	F	According to EN 60730
Protection class	I	According to EN 60730 (for incorporation in class I)



*) Exception:

Depending on the required connection type, the rectifier for version 24 V AC/DC is located within a grey plug or within a sealed housing in line with the cable.

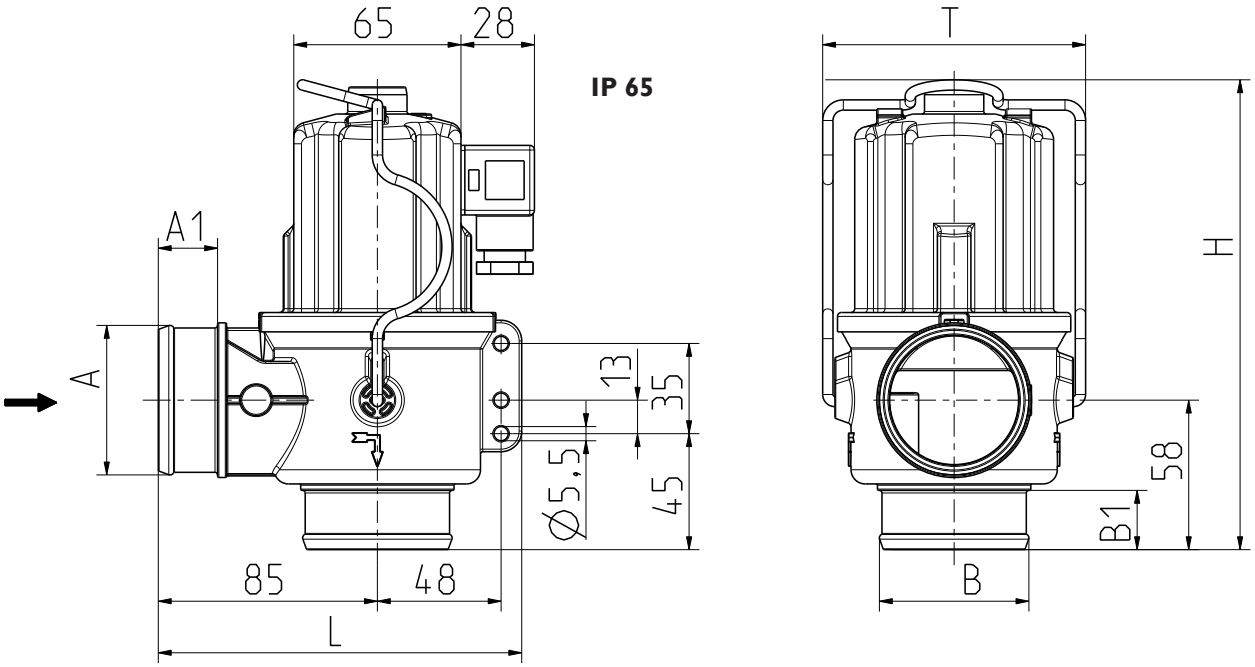
**) not suitable for UL

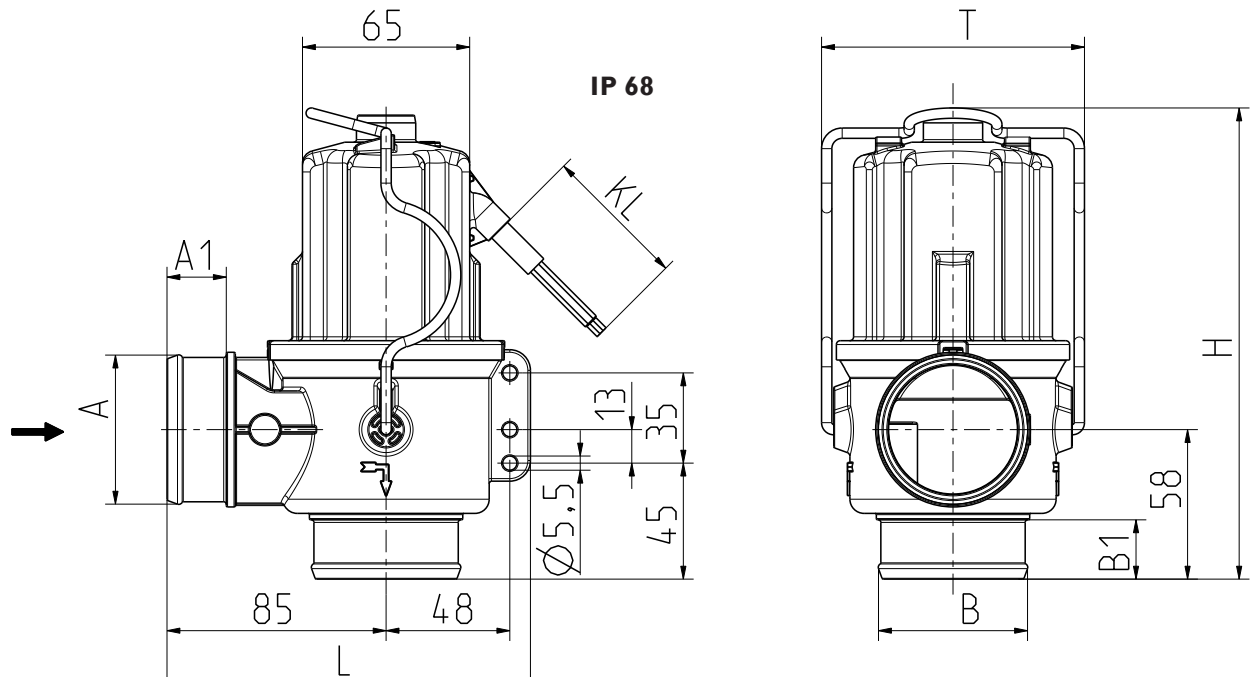
Standard cable length	1000 mm (39.370 in)
Other cable length on request	

Series 04.050.916

Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	Ø B	B1	L	H	T
PPE / PVDF	G 2	23 (0.906 in)	G 2	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)
PPE / PVDF	G 2	23 (0.906 in)	nozzle 2"	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)
PPE / PVDF	nozzle 2"	23 (0.906 in)	G 2	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)
PPE / PVDF	nozzle 2"	23 (0.906 in)	nozzle 2"	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)





Series 04.050.916

Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	Ø B	B1	L	H	T
Stainless steel	G 2	23 (0.906 in)	G 2	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)
Stainless steel	G 2	23 (0.906 in)	nozzle 2"	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)
Stainless steel	nozzle 2"	23 (0.906 in)	G 2	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)
Stainless steel	nozzle 2"	23 (0.906 in)	nozzle 2"	23 (0.906 in)	141 (5.551 in)	185 (7.283 in)	103 (4.005 in)