

# A. u. K. Müller

Solenoid valves Control valves Special valves and systems

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## **Characteristics**

- Direct acting
- Protection type IP 68 using cable, respectively IP 65 using connector
- Normally closed (NC)
- 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
- Optional manual emergency override
- Long term performance capability
- Maximum medium temperature 98 °C (208 °F)
- No minimal pressure required
- Suitable for spray and jet water
- High operating safety by the use of high quality materials and 100% final testing of the products

## Possible approvals

- **VDE**
- UI
- FC 1935
- Other approved versions available on request



### Series 04.040.116



Valve body: PPE



Valve body: Stainless steel

# **Applications**

Valve body: PVDF

Valve body: PPE

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



2/2-way direct acting drain valve of nominal diameter DN 40 for controlling low aggressive liquid media, such as cleaning or disinfection agents, with normally closed operation mode NC (normally closed).

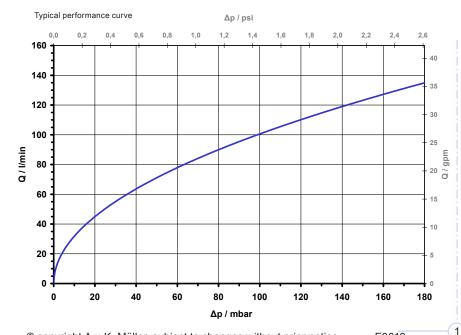
Valves of this type are medium separated having a single chamber valve body with the inlet at ninety degrees to the outlet. They can be manufactured in various materials and equipped with threaded or hose connections. Electrical operating safety is achieved by insulation class F and supported by an integrated protective circuit.

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

The valves can be equipped with a manual emergency override, to ensure the drainage of tanks even in the case of a voltage breakdown.

Valve housings made of PPE are suitable for hot water. Furthermore we offer a PPE version that fulfills the EC 1935 requirements and is therefore approved for the usage with food. PVDF has a higher resistance to chemicals compared to PPE. Valve housings made of stainless steel combine chemical and a higher temperature resistance.

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



# 2/2-way Drain Valve NC, DN 40



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### Series 04.040.116

# **Optional flush spout**





Valve body: PPE Valve body: PPE

complies with EC 1935

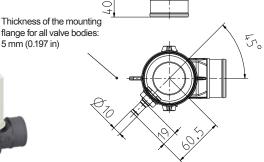
flange for all valve bodies: 5 mm (0.197 in)



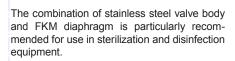
Valve body: Stainless steel

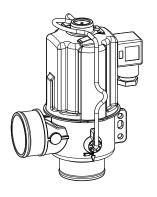


Valve body: PVDF



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





Tec	hnical	Data			
Туре	drain valve				
Construction	2/2-way-solenoid valve, direct acting				
Function	NC (normally closed)				
Fitting position	Solenoid pointing upwards (horizontally on demand)				
Media	low aggressive media, such as cleaning or disinfection agents within potable water				
T-Medium PPE Stainless steel PVDF	98 (208) 98 (208) 50 (122)	°C (°F) max. °C (°F) max. °C (°F) max. (USA)			
T-Ambient	60 (140)	°C (°F) max.			
DN	40 (1.575)	mm (in)			
p-Operating	0 - 180 (0 - 2.61)	mbar (psi)			
Coil type	circuit (high	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	IP 68	with cable according to EN 60529			
	IP 65	with plug socket according to EN 175301-803			
Insulation class	F	according to EN 60730			
Protection class	I	according to EN 60730 (for incor- poration 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.

	KL
standard cable length (IP 68 only)	1000 mm (39.370 in)
other cable length on request	



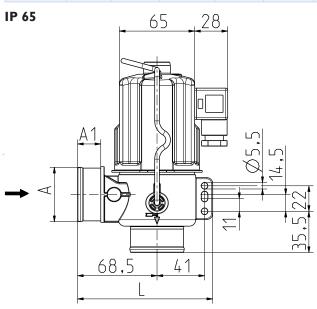
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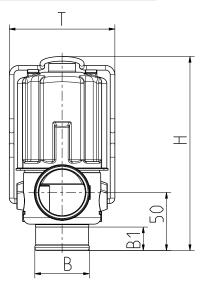
# without emergency manual override

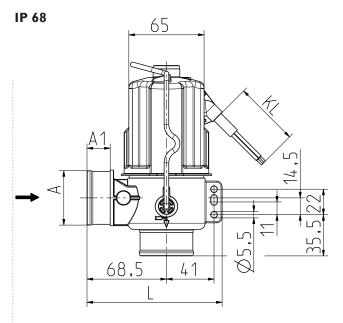
## Series 04.040.116

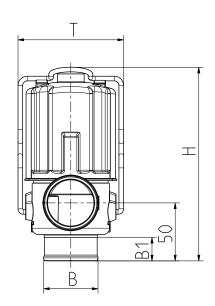
Options								
Material	Inlet		Outlet		Length	Height without emergency manual override	Height with emergency manual override	Depth
	ØA	A1 [mm]	ØВ	B1 [mm]	L [mm]	H [mm]	[mm]	T [mm]
PPE/PVDF	G 1 1/2	21 (0.827 in)	G 1 1/2	21 (0.827 in)	117 (4.606 in)	170 (6.693 in)	190 (7.480 in)	91 (3.583 in)
PPE/PVDF	G 1 1/2	21 (0.827 in)	nozzle 1 1/2"	21 (0.827 in)	117 (4.606 in)	170 (6.693 in)	190 (7.480 in)	91 (3.583 in)
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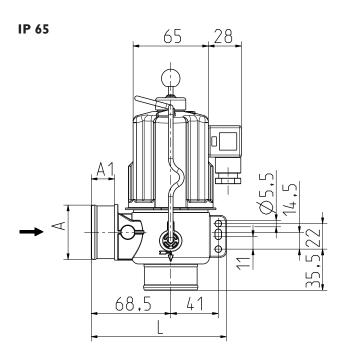


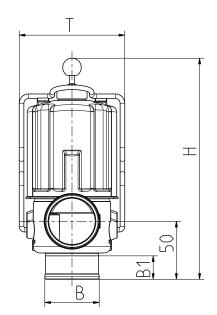
Series 04.040.116

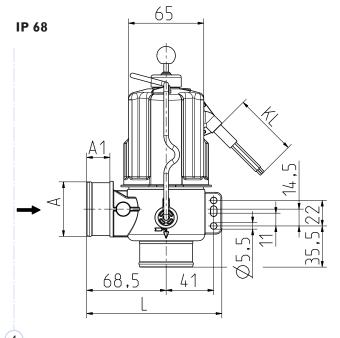
with emergency manual override

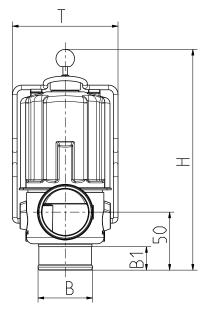
Pull ball handle to open the valve 1













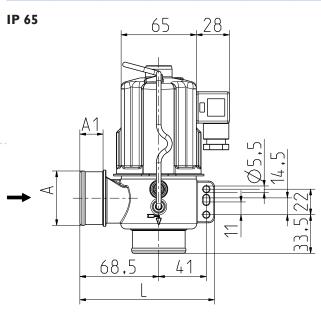
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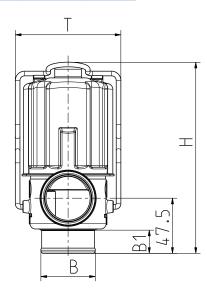
# without emergency manual override

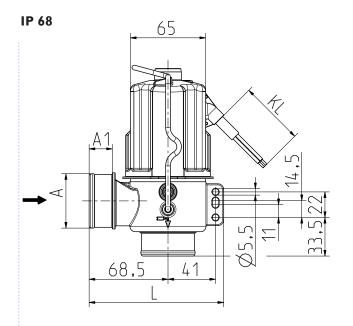
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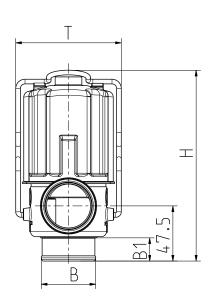
Options								
Material	Inlet		Outlet		Length	Height without emergency manual override	Height with emergency manual override	Depth
	ØA	A1 [mm]	ØB	B1 [mm]	L [mm]	H [mm]	[mm]	T [mm]
Stainless steel	G 1 1/2	21 (0.827 in)	G 1 1/2	21 (0.827 in)	117 (4.606 in)	168 (6,614 in)	188 (7,402 in)	91 (3.583 in)
Stainless steel	G 1 1/2	21 (0.827 in)	nozzle 1 1/2"	21 (0.827 in)	117 (4.606 in)	168 (6,614 in)	188 (7,402 in)	91 (3.583 in)
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# with emergency manual override

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Pull ball handle to open the valve



