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

### Series 04.050.916



Valve body: PPE

Valve body: PVDF

Valve body: Stainless steel

### Applications

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



# 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 open (NO)
- Potted coil
- Coil system protected against corrosion by separation to 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

## Description

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

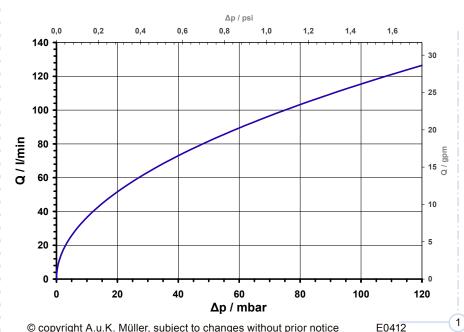
Valves of this type are medium separated having a single chamber valve body with the inlet at ninety degrees to the outlet. They can be manufactured in various materials and equipped with threaded or hose connections. Electrical operating safety is achieved by insulation class F and supported by an integrated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

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

Valve housing made of PPE or stainless steel are suitable for hot water. Valve housing made of PVDF have a higher resistance to chemicals where 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.

#### Typical performance curve



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Valve body: PPE



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

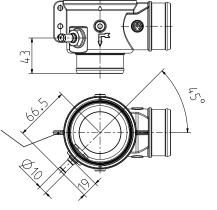
Valve body: PVDF



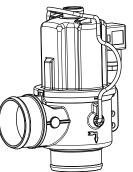
Valve body: Stainless steel

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.



**Optional flush spout** 



<b>Technical Data</b>
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Construction2/2-way-sUndiversionFunctionNO (normalized provided pro							
actingFunctionNO (normal/y open)Fitting positionSolenoid pointing upwardsMediaLow aggressive media, such as cleaning or disinfection agents within potabe waterT-Medium PPE Stainless steel98 (208) 98 (208)°C (°F) max. °C (°F) max. °C (°F) max. °C (°F) max.T-Ambient60 (140) 90 (1174)°C (°F) max. °C (°F) max. °C (°F) max.DN50 (1290) 90 (0 (1174)mm (in) (psi)p-Operating 0 -120 (0 -1.74)%DC (psi)%DC %D	Туре	Drain valve	•				
Fitting position   Solenoid pointing upwards     Media   Low aggressive media, such as cleaning or disinfection agents within potable water     T-Medium   98 (208)   °C (°F) max.     Stainless steel   98 (208)   °C (°F) max.     98 (208)   °C (°F) max.   °C (°F) max.     T-Ambient   60 (140)   °C (°F) max.     DN   50 (129)   mm (in)     p-Operating   0-120 (0-1.74)   mbar (0)     polype   MS.010 integrated protection circuit (high voltage peak limitation) = nettinger     Nominal voltage   12 VDC 24 VDC 24 VAC/DC 200-240 VAC/	Construction						
MediaLow aggressive media, such as cleaning or disinfection agents within potabe waterT-Medium PPE Stainless steel98 (208) 98 (208) 98 (208) 9 (2 (°F) max. °C (°F) max. °C (°F) max. °C (°F) max. °C (°F) max.T-Ambient60 (140) 60 (140)°C (°F) max. °C (°F) max. °C (°F) max.DN50 (1.969) 9 (0 - 1.74)mm (in) (psi)p-Operating0 - 120 (0 - 1.74)mbar (psi)Coil typeMS.010 integrated protection circuit (high-voltage peak limitation) and rectifierNominal voltage12 24 V DC 2400V DC V AC/DCVoltage tolerance12 2400 V AC/DCImitation V AC/DCDuty cycle100 % 50 % of 10 v AC/DCImitation voltage toleranceDuty cycle100 % 50 % of 10 v AC/DCImitation voltage toleranceIP 68With cable according to EN 60529IP 65With plug socket according to EN 175301-803Insulation classFAccording to EN 60730 (for incorporation in	Function	NO (norma	NO (normally open)				
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DN50 (1.969)mm (in)p-Operating0 - 120 (0 - 1.74)mbar (psi)Coil typeMS.010 int=grated protection circuit (high voltage peak limitation) and rectifierNominal voltage12 24 V DC 24 400V DC 24 V AC/DC V AC/DCVoltage tolerance±10%Duty cycle100 % 50 % of 10 min. at 400 V AC/DCNominal power24 VProtection TypeIP 68 IP 65Insulation classFAccording to EN 60730 (for incorporation in)	T-Medium PPE Stainless steel PVDF	98 (208)	°C (°F) max.				
p-Operating   0 - 120 (0 - 1.74)   mbar (psi)     Coil type   MS.010 integrated protection circuit (high voltage peak limitation) and rectifier     Nominal voltage   12   V DC 24   V DC 24     VAC/DC 200-240   V AC/DC VAC/DC   *     Voltage tolerance   ±10%   *     Duty cycle   100 % 50 % of 1∪ min. at 400 V AC/DC   *     Nominal power   24   W     Protection Type   IP 68   With cable according to EN 60529     Insulation class   F   According to EN 60730     Protection class   I   According to EN 60730	T-Ambient	60 (140)	°C (°F) ma	х.			
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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 incorporation in	Nominal power	24	W				
according to EN 175301-803     Insulation class   F   According to EN 60730     Protection class   I   According to EN 60730 (for incorporation in	Protection Type	IP 68					
Protection class I According to EN 60730 (for incorporation in		IP 65	according to				
60730 (for incorporation in	Insulation class	F					
	Protection class	I	60730 (for incorporation in				



### \*) 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.

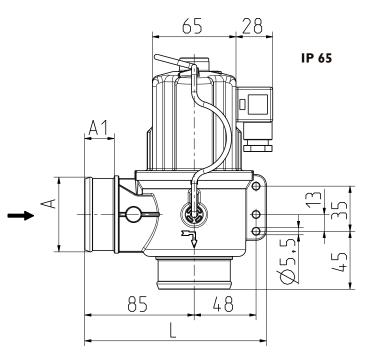
	KL
Standard cable length (IP 68 only)	1000 mm (39.370 in)
Other cable length on request	

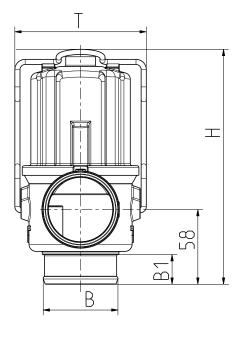
2/2-way drain valves NO, DN 50, IP 65, IP 68

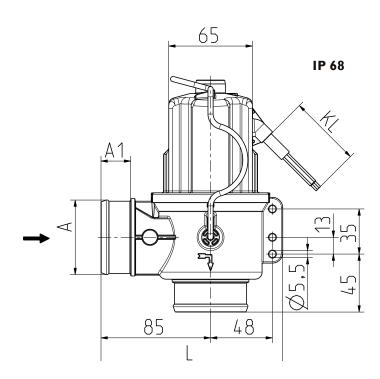
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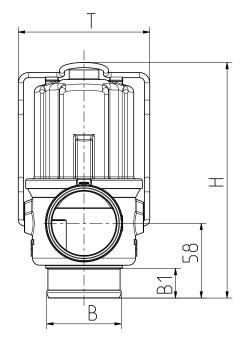
## Series 04.050.916

Options								
Material	ØA	A1	ØВ	B1	L	Н	Т	
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)	
	G 2		G2					
	Nozzle 2"		Nozzle 2"					
	Nozzle 2"		G2					









3





V

### Series 04.050.916

Options								
Material	ØA	A1	ØВ	B1	L	Н	т	
Stainless steel on request	G 2	23 (0.906 in)	Nozzle 2"	23 (0.906 in)	141 (5,551 in)	185 (7.283 in)	103 (4.055 in)	
	G 2		G 2					
	Nozzle 2"		Nozzle 2"					
	Nozzle 2"		G 2					

