Product Information

Dispense valve, DN 12

Series 40.012.111



A.u.K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- direct controlled
- plunger separated by diaphragm from medium
- PTFE valve seat to inhibit scale build up
- long term performance capability
- flow rate adjustable (flow regulation screw)
- suitable for food and hot water appliances
- works from zero pressure
- similar hydraulic performance for AC or DC types
- other hydraulic connections on request
- complete drainage of valve outlet after shut off
- easy to assemble and service
- coil change without opening of medium circuit, coil can be mounted 4 x 90°
- high operating safety through the use of high quality and 100% final testing of the products

Description

2/2-way solenoid valve of nominal diameter DN 12 for liquid dispense. This valve is direct controlled and normally closed (NC).

Valves of this design are medium separated seat valves, where the plunger is separated by a diaphragm from the medium. The valve seat is made of scale build up inhibiting PTFE.

This valve can be manufactured with a variety of customised connections in DC or AC voltage. Low power or PPM triggering can be used.

Electrical operating safety is achieved by PBT coating of the coil and can be supported by an additional protection circuit.

The valve is available in different PSU valve body types and is distinguished primarily by its food grade and hot water capability.

Applications

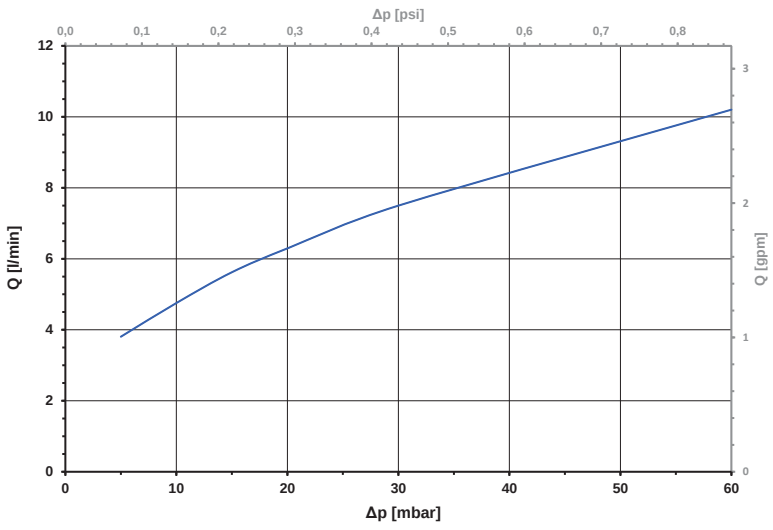
- hot / cold drink dispensers
- tank or boiler draining
- automatic animal feeding equipment

Possible approvals

Approved versions available on request:

- NSF 169
- WRAS
- KTW/W270
- UL
- Others on request

typical performance curve

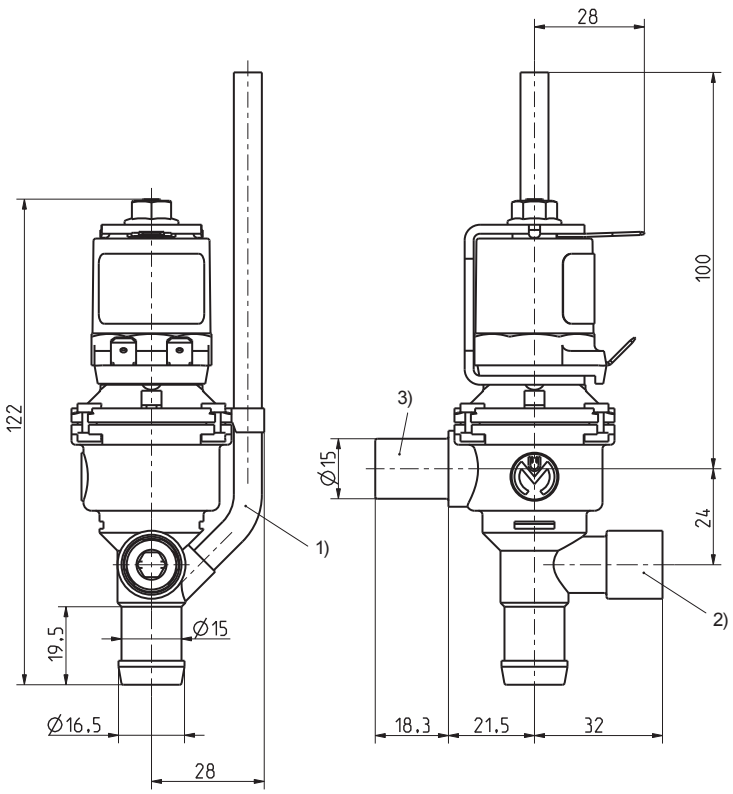


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Technical Data

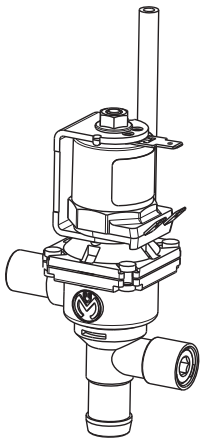
Type	dispense valve	
Construction	2/2-way single chamber valve inlet ninety degree to the outlet, direct acting	
Function	NC (normally closed)	
Fitting position	coil pointing upwards	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	98	°C max.
T-Ambient	70	°C max.
DN	12	mm
Flow	adjustable at nozzle	
p-Operating	0 - 60	mbar
Coil type	MS.006, MS.024, MS.025	
Nominal voltages	230 110 24 24	V AC 50/60 Hz V AC 50/60 Hz V AC 50/60 Hz V DC
	other voltages on request	
Voltage tolerance	+10% -15%	
Duty cycle	50% (30 s on/30 s off)	
Nominal power	9,5 W	16,4 VA (AC only)
Protection type	IP 00	higher IP-classes on request
Coil connection	flat tabs 6,3 x 0,8 mm (others on request)	
Insulation class	F	according to EN 60730
Protection class	I	according to EN 60730 (for incorporation in class I)

Materials

Valve body	PSU
Valve seat	PTFE
Plunger guide	stainless steel
Plunger	stainless steel
Membrane and sealings	VMQ
Coil coating	PBT, PET or epoxi resin

Valve body version

~001



Options

1)	Ventilation of outlet nozzle to drain downstream tubing completely. Different lengths of breather tube on request.
2)	Regulation screw for vernier adjustment of flow.
3)	Different inlet nozzels and boiler sealings on request

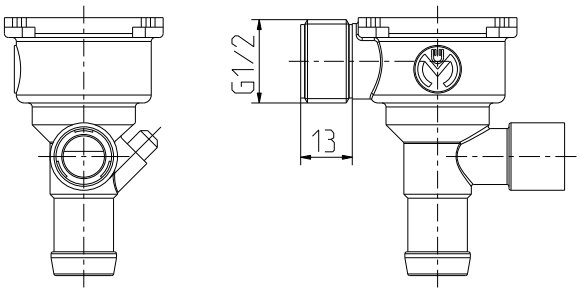
MS.006 (IP00)	
MS.024 (IP65)	
MS.025 (IP67, IP68)	

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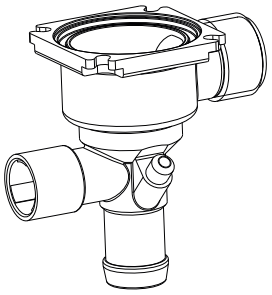
Series 40.012.111

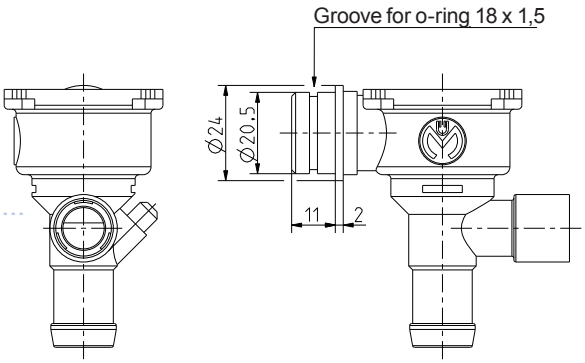
With regulating screw and ventilation of outlet nozzle

Valve body version

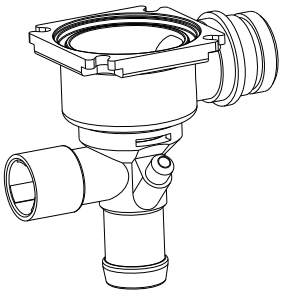


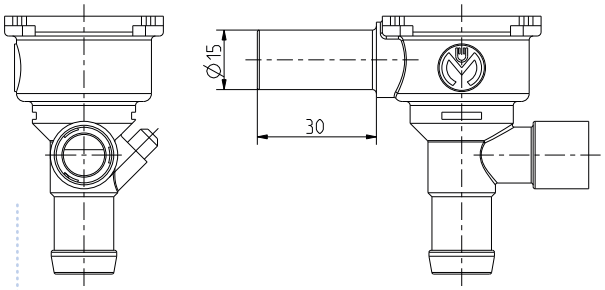
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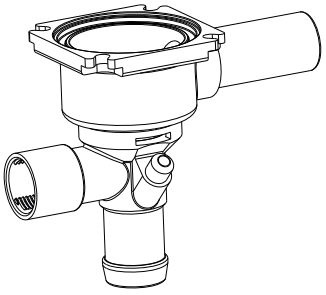


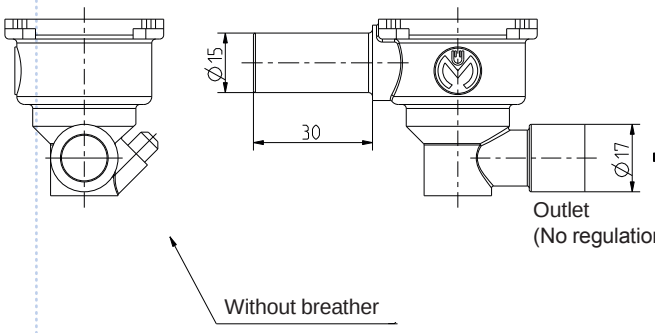
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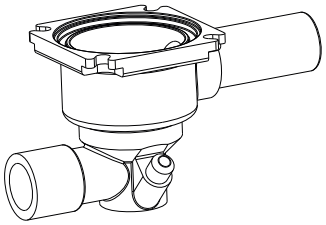


~005





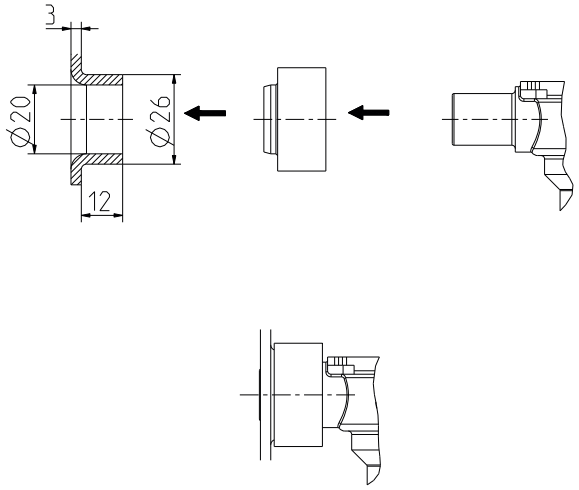
~015



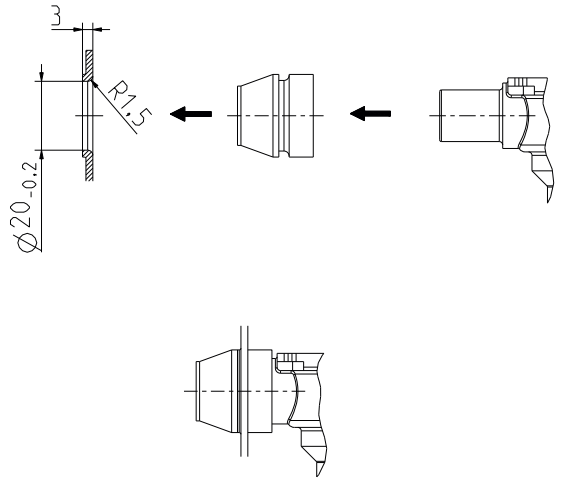
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Tank sealings material: VMQ



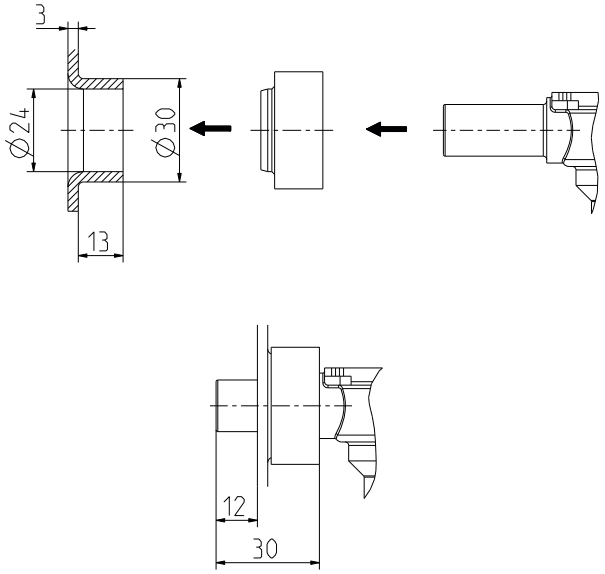
For valve body version	ID.	
~001	004966	 Seal for tank inlet nipples



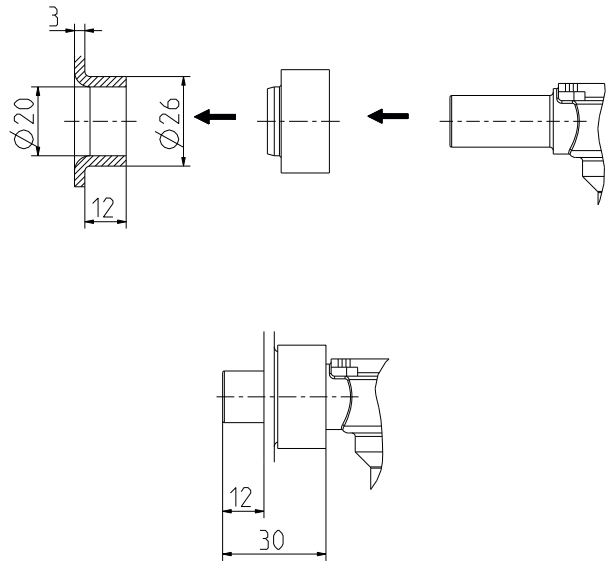
For valve body version	ID.	
~001	006723	 seal for circular tank holes

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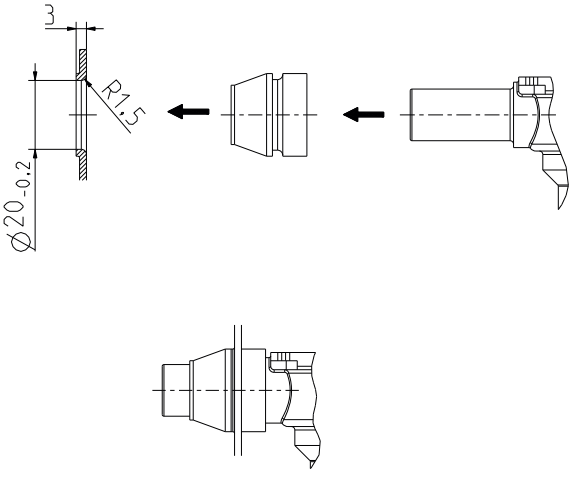
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For valve body version	ID.	
~005 ~015	006432	 Seal for tank inlet nipples



For valve body version	ID.	
~005 ~015	004966	 Seal for tank inlet nipples



For valve body version	ID.	
~005 ~015	006723	 seal for circular tank holes

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