

## Industrial nylon valves 100 & 200 Series

### General:

Bermad industrial glass-filled nylon valves are designed and manufactured to meet the highest standards in quality and workmanship. The valves are available with a wide variety of functions.

The maximum pressure is 10 bar - take measures if the pressure is not fully under control. The valves can be installed in the horizontal or vertical position for reliable operation.

For clean water use a 2-way valve model and a 3-way model for less clean water.

### Installation:

Ensure adequate space and accessibility for maintenance and future alterations.

Flush the pipes thoroughly to remove dirt and scale before installing or commissioning the valve.

Check whether the specifications of the solenoid correspond to the power supply.

Place the valve with the arrow on the valve in the direction of flow.

Ensure stress-free installation of the valve in the pipe system, which must be sufficiently supported and protected against mechanical forces. Furnish the fitting connections with sufficient packing material and tighten with the correct force. Bermad PVC adapters for the 100 Series valve are fitted with an O-ring seal.

Secure the electric connections (low voltage current) with cable connectors, and conceal the cables safely, while ensuring they are kept dry.

Following installation, check that the valve, as well as the accessories, have not been damaged.

### Commissioning:

Check that the manual switch is set to 'AUTO'.

Slowly increase the pressure in the system.

If the valve does not work properly, allow air to escape by manually opening the valve.

### Operation:

The valves can be closed and/or opened manually, electrically, or by a pilot. Use the white lever under the solenoid for manual operation. Valves equipped with a flow stem (the knob on top of the cover) are able to restrict the flow or pressure to a lower maximum.

The manual override of the ½" valve has a "Closed", "Auto" and "Open" position.

### Maintenance:

Before dismantling the valve or parts thereof, check that there is no pressure in the system.

The cover of the valve can be removed by unscrewing the bolts/screws/ring clamp.

When replacing the diaphragm, pay close attention to the small hole in the edge (¾" and 1" 200 series)

### Note:

In view of on-going improvements, we reserve the right to change specifications at any time without prior notice.

### Troubleshooting nylon valves:

Symptom	Cause	Remedy
Valve failt to open	No electric current	Check the power supply
	Insufficient inlet pressure	Check water-pressure facilities
	Solenoid: <ul style="list-style-type: none"> <li>Core is stuck</li> <li>Clogged connections</li> <li>No response - 'no click'</li> </ul>	<ul style="list-style-type: none"> <li>Check and clean core</li> <li>Check and clean connections</li> <li>Test the solenoid, replace if necessary, check whether the power supply corresponds to the current as specified on the solenoid</li> </ul>
Valve fails to close	Diaphragm is leaking	Replace diaphragm
	Dirt in the diaphragm hole (2w)	Remove, clean and use a filter
	In-line filter is closed (3w)	Remove and clean in-line filter
	In-line filter is not installed correctly	Stagnation filter must be installed in the flow direction
	Solenoid <ul style="list-style-type: none"> <li>Continues to be energised</li> <li>Clogged connections</li> </ul>	<ul style="list-style-type: none"> <li>De-energise solenoid</li> <li>Reduce current leakage</li> <li>Check and clean connections</li> </ul>
	Dirt stuck under diaphragm	Open the valve and remove dirt check diaphragm for damage
	Manual override set to 'open'	Set manual override to 'auto'

### 2-way solenoid controlled valve

Typical parts

#### 100 Series KY-valves

2S10020Y05 Diaphragm assy. 2"

2S10025Y05 Diaphragm assy. 2½" - 3"R

#### 200 Series valves

2S21007G05 Diaphragm ¾" - 1"

2S21015G05 Diaphragm 1½" - 2"

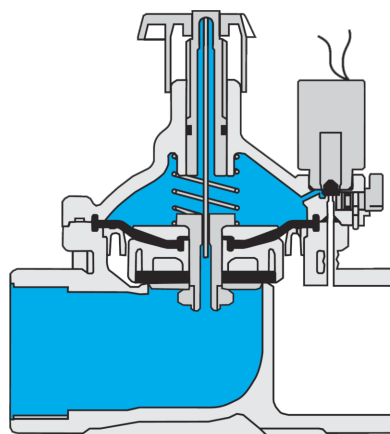
#### Solenoid 2w

2U202390 Solenoid 24 VDC

2U203390 Solenoid 24 VAC

2U202600 Solenoid 24 VDC industrial

2U203600 Solenoid 24 VAC industrial



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## Industrial nylon valves 100 & 200 Series

### 3-way solenoid controlled valve

Typical parts

#### 100 Series KY-valves

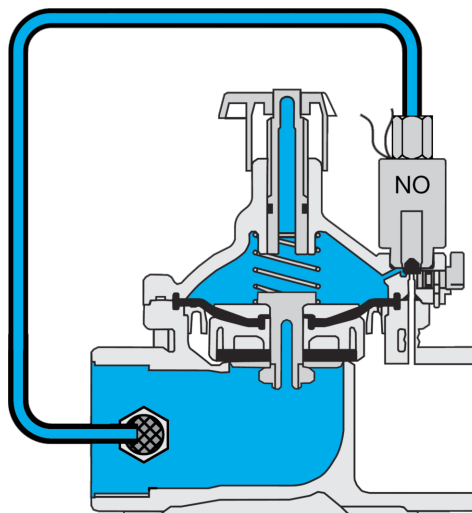
2S11020Y05	Diaphragm assy. 2"
2S11025Y05	Diaphragm assy. 2½" - 3"R
2S10930105	Diaphragm assy. 3" - 4"
2S10940105	Diaphragm assy. 4"L - 6"R

#### 200 Series valves

2S21107G05	Diaphragm ¾" - 1"
2S21115G02	Diaphragm 1½" - 2"

#### Solenoid 3w

2U204390	Solenoid 24 VDC
2U205391	Solenoid 24 VAC-R
2U204600	Solenoid 24 VDC industrial
2U205600	Solenoid 24 VAC industrial



### 3-way solenoid controlled valve NO

Typical parts

#### 100 Series KY-valves

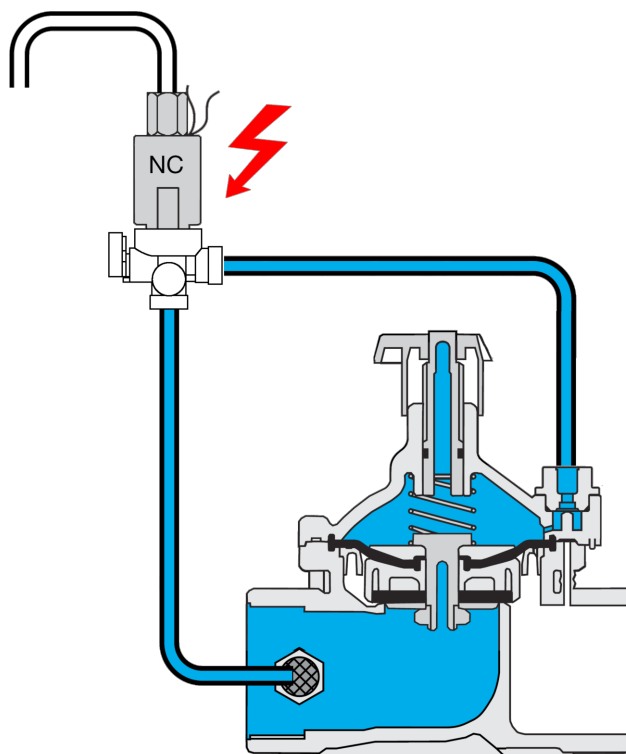
2S11020Y05	Diaphragm assy. 2"
2S11025Y05	Diaphragm assy. 2½" - 3"R
2S10930105	Diaphragm assy. 3" - 4"
2S10940105	Diaphragm assy. 4"L - 6"R

#### 200 Series valves

2S21107G05	Diaphragm ¾" - 1"
2S21115G02	Diaphragm 1½" - 2"

#### Solenoid 3w

2U206390	Solenoid 24 VDC/NC
2U207390	Solenoid 24 VAC/NC
2U206600	Solenoid 24 VDC/NC industrial
2U207600	Solenoid 24 VAC/NC industrial



### 3-way pressure relief valve

Typical parts

#### 100 Series KY-valves

2S11020Y05	Diaphragm assy. 2"
2S11025Y05	Diaphragm assy. 2½" - 3"R
2S10930105	Diaphragm assy. 3" - 4"
2S10940105	Diaphragm assy. 4"L - 6"R

#### 200 Series valves

2S21107G05	Diaphragm ¾" - 1"
2S21115G05	Diaphragm 1½" - 2"

#### Pilot

2U2PC10	Pilot
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### 3-way float valve

Typical parts

#### 100 Series KY-valves

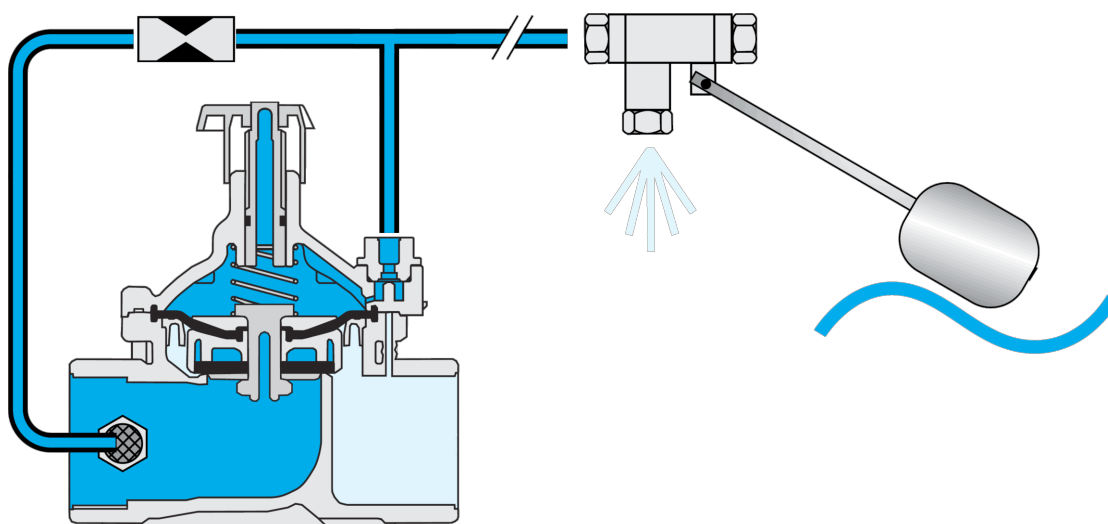
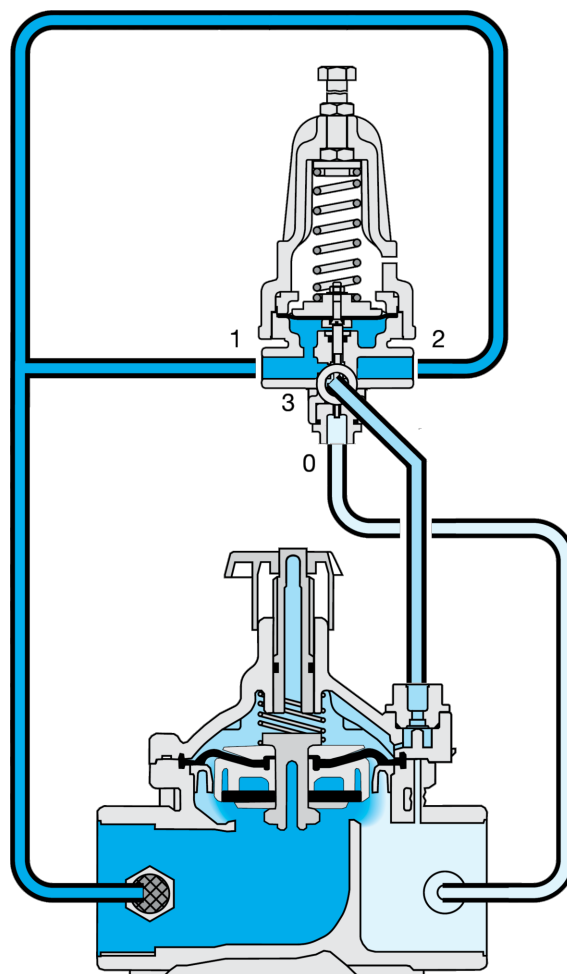
2S11020Y05	Diaphragm assy. 2"
2S11025Y05	Diaphragm assy. 2½" - 3"R
2S10930105	Diaphragm assy. 3" - 4"
2S10940105	Diaphragm assy. 4"L - 6"R

#### 200 Series valves

2S21107G05	Diaphragm ¾" - 1"
2S21115G05	Diaphragm 1½" - 2"

#### Float

1U08000301	Float (optional)
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### 3-way pressure sustaining float valve

Typical parts

#### 100 Series KY-valves

2S11020Y05	Diaphragm assy. 2"
2S11025Y05	Diaphragm assy. 2½" - 3"R
2S10930105	Diaphragm assy. 3" - 4"
2S10940105	Diaphragm assy. 4"L - 6"R

#### 200 Series valves

2S21107G05	Diaphragm ¾" - 1"
2S21115G05	Diaphragm 1½" - 2"

#### Float

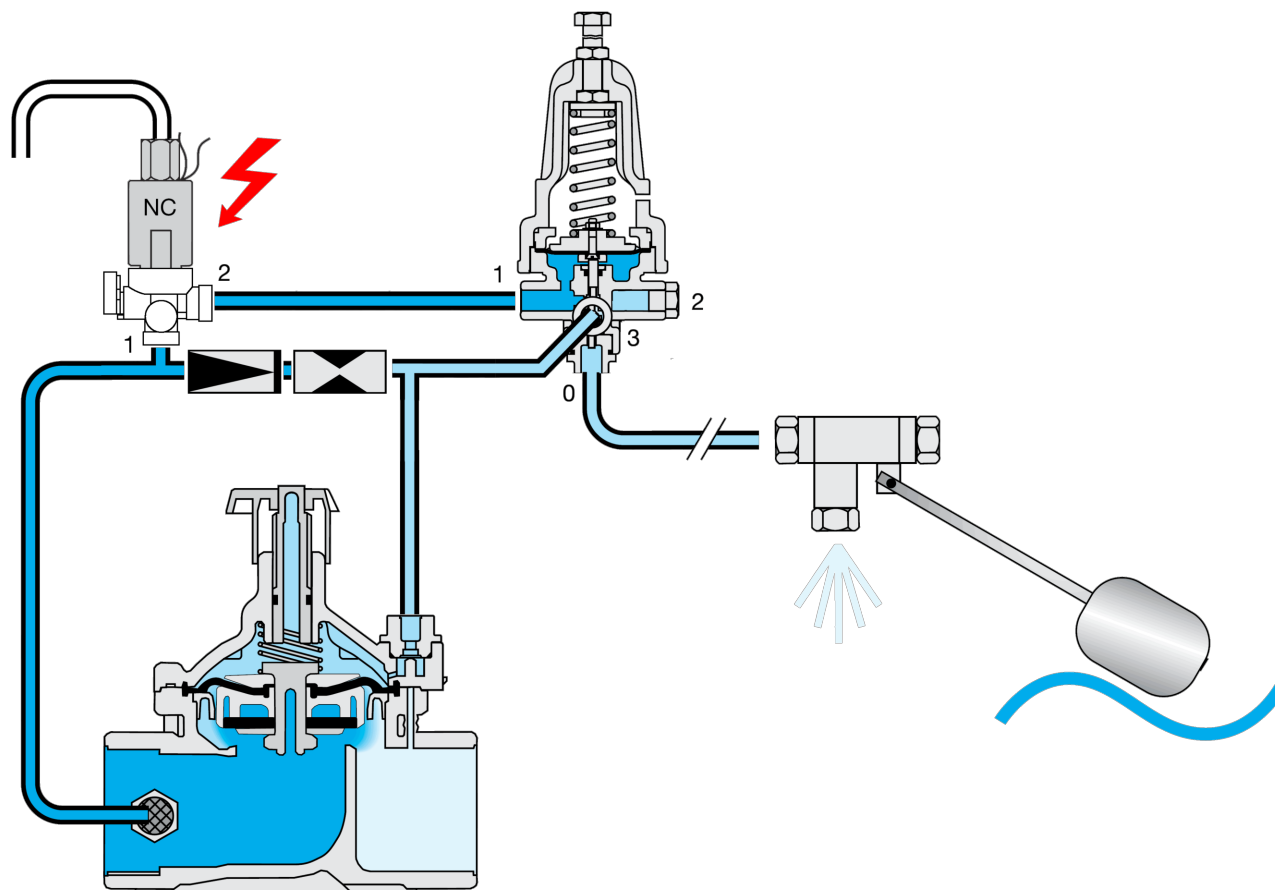
1U08000301	Float (optional)
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#### Pilot

2U2PC30	Pilot
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#### Solenoid 3w

2U206390	Solenoid 24 VDC/NC
2U207390	Solenoid 24 VAC/NC
2U206600	Solenoid 24 VDC/NC industrial
2U207600	Solenoid 24 VAC/NC industrial



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## Manual

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