

Instruction Manual

2w Solenoid



2w solenoid (NC):

The BERMAD 2w solenoid is a universal control valve designed for water supply and distribution applications. Made to be mounted directly to 3/4"- 2" valves or on a separate base (solenoid base). The BERMAD solenoid excels in its small dimensions, advanced operation and high reliability. It is designed to operate on 24 V (option 12 V) low power. The 2w solenoid offers the following excellent advantages:

- low sensitivity to dirt and voltage fluctuations
- low working temperature

Materials:

Seals: Buna-N

Parts in contact with water: stainless steel 400, Nylon

Technical specifications:

Voltage tolerance $\pm 10\%$

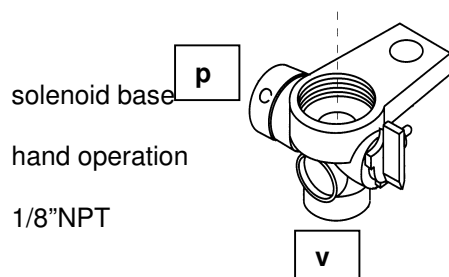
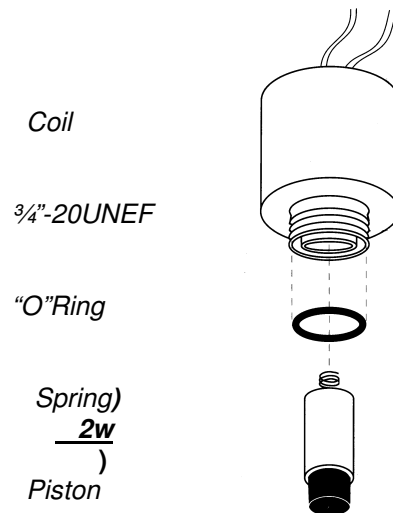
AC 1.7W – DC 3.6 W

Kv solenoid : 1.3 L/m, orifice 1.8 mm

Working pressure : 0-10 bar

Application:

- 3/4" to 2" standard on 2w valve
- pressure-reducing valve
- float-controlled valves
- 2w piston



<u>Art.no.</u>	<u>Voltage Volt</u>	<u>Model</u>	<u>Function</u>	<u>Colour wires</u>	<u>Current Amp</u>	<u>Resistance Ohm</u>
2U202390	24VDC	S390-2	2w	black	0.15	170
2U203390	24VAC	S390-2	2w	red	0.28 / 0.14	35



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Solenoid 3w



3w solenoid (NO):

The 3w solenoid is a universal control valve designed for water supply and distribution applications. Made to be mounted directly on 3/4" – 2" valves or on a separate base (the solenoid base). The solenoid excels in its small dimensions, advanced operation and high reliability. It is designed to operate on 24V (option 12V) low power. The 3w solenoid offers the following excellent advantages:

- less sensitive to dirt and voltage fluctuations.
- relatively low working temperature.
- saves on cable costs due to voltage losses being minimal.

Materials:

Seals: Buna-N
Parts in contact with water: stainless steel 400, Nylon

Technical specifications:

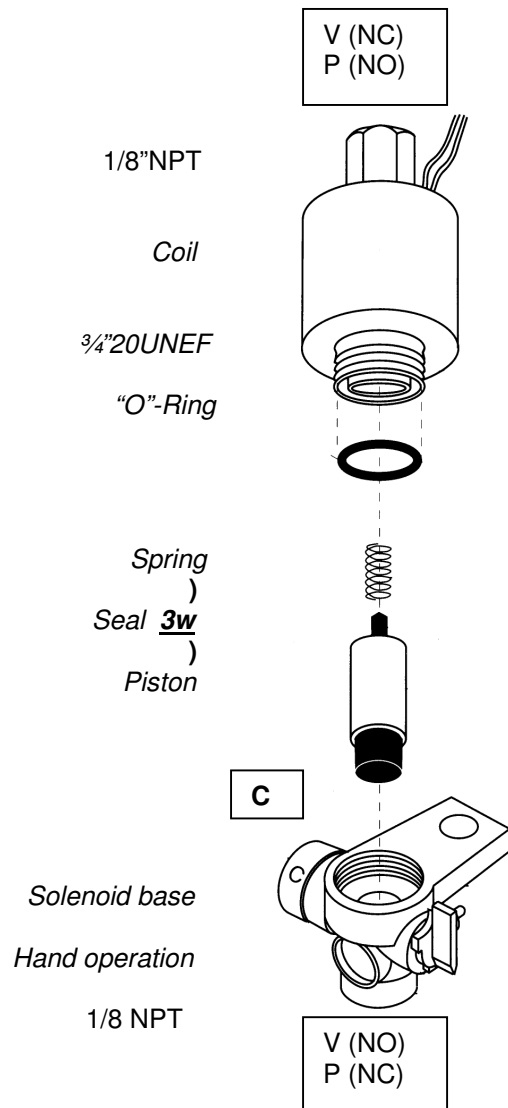
Voltage tolerance of $\pm 10\%$

DC-NO/NC	4.2 Watts
D-AC-NO	2.2 Watts
R-AC-NO	2.9 Watts
D-AC-NC	3.5 Watts

Kv solenoid: 1.2 l/min, orifice 1.6 mm
Kv solenoid base 1.3 l/min, orifice 1.8 mm.
Working pressure 0-10 bar

Application:

- 3/4 to 2" standard 3w valve
- Pneumatic valve
- **NO - Piston 3w.**
- **NC - piston 3w with notch and strong spring**



UVAR



Subject to changes and/or misprints

<u>Art.no.</u>	<u>Voltage Volt</u>	<u>Model</u>	<u>Wire colour</u>	<u>Current Amp</u>	<u>Resistance Ohm</u>
2U204390	24VDC	S390-3	black	0.17	135
2U205390	24VAC	S390-3-D	orange/red	0.13	*
2U235391	24VAC	S390-3-R	red	0.46 / 0.24	21
Option NC					
2U206390	24VDC	S390-3 NC	black	0.17	135
2U207390	24VAC	S390-3-D NC	orange/blue	0.20	*

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Solenoid valve



3w solenoid valve (NO) :

The Bermad 3w solenoid valve is a control valve designed for water supply and distribution applications. The wide orifice (low Kv value) enables using it on larger valves. The solenoid valve comprises two important components:

- an S 200 solenoid
- a 3w 1/8" hydraulic valve

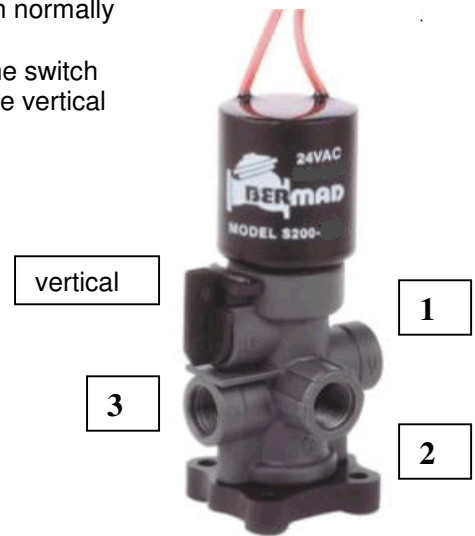
The directly operated valve has a low switching moment and is less sensitive to dirt and voltage fluctuations. In addition, an NC valve is available as an option for use on normally open valves.

Hand operation enables external control, switch with arrow set to C is the switch position: (NO) – valve opens, (NC) – valve closes! Put the switch into the vertical position, and the valve will be controlled again by the solenoid.

- **Valve mounting** : by a self-tapping screw through the valve foot
- **Materials:** : Seals NBR
: Parts in contact with water : stainless steel 400, Nylon

Technical specifications:

Voltage tolerance $\pm 10\%$
 AC 3.5W – DC 4.2W
 Kv flow coefficient : 2 l/min, orifice 2.2 mm
 Working pressure 0-10 bar



hand operation black (NO)

- 1- Outlet (V)
- 2- Control (C)
- 3- Inlet (P)

hand operation green (NC)

- 1- Inlet (P)
- 2- Control (C)
- 3- Outlet (V)

Application:

- standard on valve larger than 2"
- **NO: hand operation black**
- **NC: hand operation green**, has a **piston with notch** and a light spring in the valve

<u>Art.no.</u>	<u>Voltage</u>	<u>Model</u>	<u>Wire Colour</u>	<u>Current Amp</u>	<u>Resistance Ohm</u>
2U204200	24VDC	S200 24VDC -NO	black	0.17	135
2U205200	24VAC	S200 24VAC-D-NO	red/blue	0.20	*
NC Option					
2U207200	24VAC	S200 24VAC-D-NC	red/blue	0.20	*