

# Ordering Guide

## Ordering Guide

### Hydraulic Control Valve with Flow Stem

| Connection       | Cat. No.        | Hydraulic Control Valve with Flow Stem |             |                          |
|------------------|-----------------|--|-------------|--------------------------|
|                  |                 | Units per Case                         | Weight (kg) | Volume (m <sup>3</sup> ) |
| Threaded BSP     | 10515YP0BP000M0 | 10                                     | 8.00        | 0.0367                   |
|                  | 10502YP0BP000M0 | 10                                     | 8.20        | 0.0367                   |
|                  | 1052LYP0BP000M0 | 6                                      | 8.80        | 0.0525                   |
|                  | 10525YP0BP000M0 | 6                                      | 9.00        | 0.0525                   |
|                  | 10503YP0BP000M0 | 6                                      | 12.20       | 0.5250                   |
| Threaded (Metal) | 10503YP0CC000M0 | 2                                      | 10.00       | 0.0367                   |



## Ordering Guide

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Water Control Solutions



## Contact List

**Telephone and Fax**

|  |  |
|--|--|
| Landscape Division   | Tel: +972-4-985-5202<br>Fax: +972-4-985-5333 |
| North America  | Tel: +972-4-985-5326<br>Fax: +972-4-985-5333 |
| Iberia   | Tel: +972-4-985-5201<br>Fax: +972-4-985-7681 |
| Asia Pacific   | Tel: +972-4-985-5255<br>Fax: +972-4-985-5333 |
| Latin America  | Tel: +972-4-985-5266<br>Fax: +972-4-985-7681 |
| EMEA   | Tel: +972-4-985-7273<br>Fax: +972-4-985-5333 |
| Application Engineering  | Tel: +972-4-985-5202<br>Fax: +972-4-985-5333 |
| General Marketing E-mail: <a href="mailto:Info@bermad.com">Info@bermad.com</a> |  |



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# BERMAD Landscape

## About BERMAD



Founded in 1965, BERMAD knows the value of a single drop of water and how best to reap its full advantage. Today BERMAD serves global customers in a wide range of fields, anywhere in the world.

### **BERMAD – Provider of Solutions**

Combining its expertise, leading-edge technology and precision engineering, BERMAD provides customized solutions for the control and management of water/fluid treatment and supply.

### **Main areas of activity include:**

**Landscape** – Serving irrigation management professionals, BERMAD provides solutions for the full range of landscape water management applications.

The BERMAD landscape system offers water management professionals straightforward irrigation solutions for every application from professional golf courses, sports fields and schools, to parks, commercial centers and home gardens.

**Waterworks** – National, regional and municipal distribution networks, high-rise buildings and luxury hotels, water systems at industrial facilities, power stations.

**Fire Protection** – Factories and industrial yards, high-rise and public buildings, hazardous zones at oil and gas facilities, power plants, off-shore installations, aviation and marine environments, refineries.

**Petroleum** – Petroleum distribution terminals, tank farms.

**Irrigation** – Main networks for agricultural projects, purified waste water projects, central control-head and infield networks, greenhouses, commercial and residential gardening.

**Water Metering** – Bulk in water supply systems.

### **Efficiency and Quality – BERMAD's Core Competencies**

BERMAD's workforce includes over 450 highly skilled personnel. Computerized systems (Oracle ERP) enable full control and management at all levels of production, marketing and shipment, while ensuring rapid turnaround and always-on-schedule delivery. Strict Quality Assurance keeps BERMAD in compliance with ISO 9001-2000 and a range of international quality and ecology standards.

### **BERMAD – A Worldwide Presence**

With 9 subsidiaries throughout the world, and operations in over 80 countries on 5 continents, BERMAD has a formidable global presence. Its worldwide customer training facilities and parts distribution networks ensure uninterrupted customer service anywhere in the world.

### **Precision Engineering – A BERMAD Commitment**

Comprehensive fluid management systems are only as effective as their smallest component. That's why BERMAD systems are based on components designed, developed and manufactured in-house, with the ability to adapt solutions to any customer need; constantly integrating the latest, most reliable manufacturing techniques, and providing every customer with the most comprehensive commercial and technical support in the world.

**BERMAD - a global leader in managing the world's most precious resources**





## 100 Series

The BERMAD Hydraulic Control Landscape Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to a pressure command.



### Features and Benefits

- Hydraulic Control Valve
  - Line pressure driven
  - Hydraulically controlled On/Off
- Engineered Plastic Valve with Industrial Grade Design
  - Adaptable on-site to a wide range of end connection sizes and types
  - Articulated flange connections eliminate mechanical and hydraulic stresses
  - Highly durable, chemical and cavitation resistant
- hYflow 'Y' Valve Body with "Look Through" Design
  - Ultra-high flow capacity - Low pressure loss
- Unitized Flexible Super Travel (FST) Diaphragm and Guided Plug
  - Smooth closing
  - Requires low actuation pressure
  - Prevents diaphragm erosion and distortion
- User-Friendly Design
  - Simple in-line inspection and service





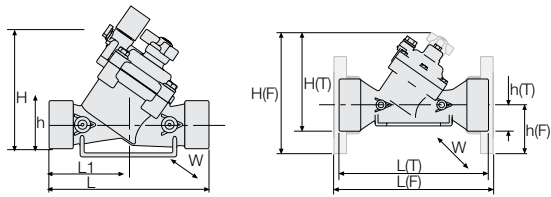
# BERMAD Landscape

## 100 Series - Technical Specifications

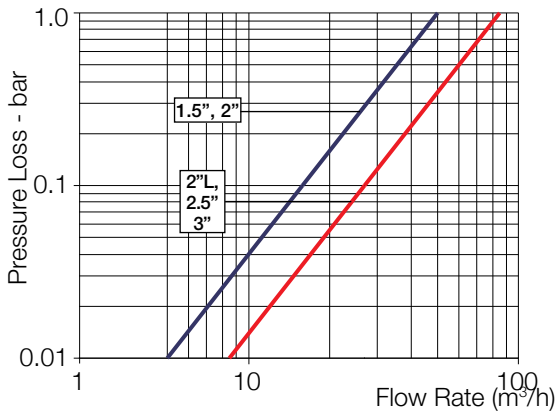
### Dimensions and Weights

| Sizes DN        | 40            | 50          | 50           | 50L          | 65           | 80           |                   |
|-----------------|---------------|-------------|--------------|--------------|--------------|--------------|-------------------|
| Pattern         | Y             | Y           | Y            | Y            | Y            | Y            | Y                 |
| End Connections | Rc 1½ (BSP.T) | G 2 (BSP.F) | Rc 2 (BSP.T) | Rc 2 (BSP.T) | G 2½ (BSP.F) | Rc 2 (BSP.T) | Universal Flanges |
|                 | 1½" NPT       | Male        | 2" NPT       | 2" NPT       | Male         | 3" NPT       | Metal             |
| L (mm)          | 200           | 200         | 200          | 230          | 230          | 298          | 308               |
| H (mm)          | 156           | 156         | 156          | 170          | 170          | 180          | 240               |
| h (mm)          | 40            | 40          | 40           | 40           | 40           | 50           | 100               |
| W (mm)          | 97            | 97          | 97           | 135          | 135          | 190          | 100               |
| CCDV (LIT)      | 0.15          | 0.15        | 0.15         | 0.2          | 0.2          | 0.2          | 0.2               |
| Weight (Kg)     | 0.8           | 0.8         | 0.8          | 1.35         | 1.4          | 1.6          | 4.4               |

CCDV = Control Chamber Displacement Volume



### 100 Series, Control Valves "Y" Pattern



### Flow Properties

| Sizes DN | 40 | 50 | 50L | 65  | 80  |
|----------|----|----|-----|-----|-----|
| Pattern  | Y  | Y  | Y   | Y   | Y   |
| KV       | 50 | 50 | 100 | 100 | 100 |
| CV       | 58 | 58 | 115 | 115 | 115 |

### Technical Specifications

#### Available Patterns & Sizes:

DN: 40, 50, 50L, 65, 80

#### Available End Connections:

Threaded: Female BSP-T/NPT DN: 40, 50, 50L, 80

Male BSP-F DN: 50, 65

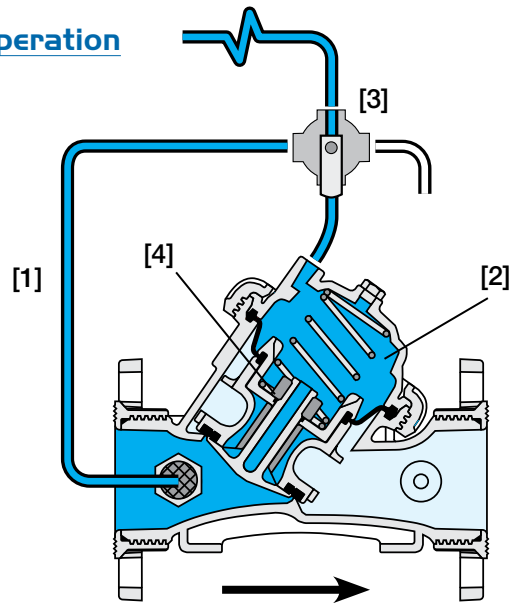
#### 4 Flanged: DN 80

Metal "Corona" with elongated slots

enables the meeting of diverse flange standards ISO

PN10, ANSI 125, JIS 10K

### Operation



Line Pressure [1] is applied to the Control Chamber [2] through the Manual Selector [3]. This creates superior closing force that moves the Diaphragm Assembly [4] toward a closed position.

The discharge of pressure from the control chamber causes the line pressure acting on the diaphragm assembly to move the valve to an open position.

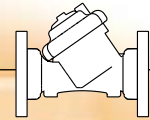
**Pressure Rating:** 10 bar

**Operating Pressure Range:** 0.5-10 bar

**Temperature Range:** Water up to 60°C

#### Standard Materials:

- Body, Cover and Plug: Glass-Filled Nylon
- Diaphragm: NBR [Buna-N], Reinforced Nylon Fabric
- Seals: NBR [Buna-N]
- Spring: Stainless Steel
- Cover bolts DN: 40, 50, 50L, 65 & 80



## BERMAD Hydraulic Control Valve with Flow Stem

**I05-M**

| Size   |    | Connection      | Cat. No.        |                |             |                          |
|--------|----|-----------------|-----------------|----------------|-------------|--------------------------|
| Inch   | mm |                 |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP    | 1051YP0BP000M0  | 10             | 8.00        | 0.0367                   |
| 2"     | 50 |                 | 10502YP0BP000M0 | 10             | 8.20        | 0.0367                   |
| 2"L    | 50 |                 | 1052LYP0BP000M0 | 6              | 8.80        | 0.0525                   |
| 2 1/2" | 65 |                 | 10525YP0BP000M0 | 6              | 9.00        | 0.0525                   |
| 3"     | 80 |                 | 10503YP0BP000M0 | 6              | 12.20       | 0.5250                   |
| 3"     | 80 | Flanged (Metal) | 10503YP0CC000M0 | 2              | 10.00       | 0.0367                   |



## BERMAD Solenoid Controlled Valve with 2-Way Internal Control & Flow Stem

**I10-N-2W-M**

Solenoid S-390-2W-24V/AC

| Size   |    | Connection      | Cat. No.        |                |             |                          |
|--------|----|-----------------|-----------------|----------------|-------------|--------------------------|
| Inch   | mm |                 |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP    | 11015YP2BPN10M0 | 10             | 9.70        | 0.0367                   |
| 2"     | 50 |                 | 11002YP2BPN10M0 | 10             | 9.80        | 0.0367                   |
| 2"L    | 50 |                 | 1102LYP2BPN10M0 | 6              | 9.60        | 0.0525                   |
| 2 1/2" | 65 |                 | 11025YP2BPN10M0 | 6              | 9.80        | 0.0525                   |
| 3"     | 80 |                 | 11003YP2BPN10M0 | 6              | 13.00       | 0.0525                   |
| 3"     | 80 | Flanged (Metal) | 11003YP2CCN10M0 | 2              | 10.50       | 0.0525                   |



## BERMAD Solenoid Controlled Valve with Flow Stem

**I10-3W-M**

Solenoid S-390-3W-24V/AC

| Size   |    | Connection      | Cat. No.              |                |             |                          |
|--------|----|-----------------|-----------------------|----------------|-------------|--------------------------|
| Inch   | mm |                 |                       | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP    | 11015YP3BP000M8-S390  | 10             | 10.50       | 0.0367                   |
| 2"     | 50 |                 | 11002YP3BP000M8-S390  | 10             | 10.30       | 0.0367                   |
| 2"L    | 50 |                 | 1102LYP3BP000M8-S390  | 6              | 10.20       | 0.0525                   |
| 2 1/2" | 65 |                 | 11025LYP3BP000M8-S390 | 6              | 10.30       | 0.0525                   |
| 3"     | 80 |                 | 11003YP3BP000M8-S390  | 6              | 13.20       | 0.0525                   |
| 3"     | 80 | Flanged (Metal) | 11003YP3CC000M8-S390  | 2              | 11.10       | 0.0525                   |



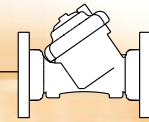
## BERMAD Pressure Reducing Valve with 2-Way Solenoid Control & Flow Stem

**I20-55-2W-M**

Solenoid S-390-2W-24V/AC

| Size   |    | Connection      | Cat. No.        |                |             |                          |
|--------|----|-----------------|-----------------|----------------|-------------|--------------------------|
| Inch   | mm |                 |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP    | 12015YP2BP550M8 | 6              | 7.80        | 0.0525                   |
| 2"     | 50 |                 | 12002YP2BP550M8 | 6              | 8.00        | 0.0525                   |
| 2"L    | 50 |                 | 1202LYP2BP550M8 | 6              | 8.20        | 0.0525                   |
| 2 1/2" | 65 |                 | 12025YP2BP550M8 | 4              | 8.60        | 0.0525                   |
| 3"     | 80 |                 | 12003YP2BP550M8 | 4              | 9.60        | 0.0525                   |
| 3"     | 80 | Flanged (Metal) | 12003YP2CC550M8 | 2              | 11.20       | 0.0525                   |





## BERMAD Latching Solenoid Controlled Valve with 2W Internal Controls & Flow Stem

**I10-LS-2W-M**

Solenoid S-392 Latching, 6-20VDC

| Size |    | Connection      | Cat. No.        | Units per Case |             |             |
|------|----|-----------------|-----------------|----------------|-------------|-------------|
| Inch | mm |                 |                 | Units per Case | Weight (kg) | Volume (m³) |
| 1½"  | 40 | Threaded BSP    | 11015YP9BPN10M0 | 10             | 9.70        | 0.0367      |
| 2"   | 50 |                 | 11002YP9BPN10M0 | 10             | 9.80        | 0.0367      |
| 2"L  | 50 |                 | 1102LYP9BPN10M0 | 6              | 9.60        | 0.0525      |
| 2½"  | 65 |                 | 11025YP9BPN10M0 | 6              | 9.80        | 0.0525      |
| 3"   | 80 |                 | 11003YP9BPN10M0 | 6              | 13.00       | 0.0525      |
| 3"   | 80 | Flanged (Metal) | 11003YP9CCN10M0 | 2              | 10.50       | 0.0525      |



## BERMAD Latching Solenoid Controlled Valve with Flow Stem

**I10-LS-3W-M**

Solenoid S-982 Latching, 12-50V/DC

| Size |    | Connection      | Cat. No.        | Units per Case |              |             |
|------|----|-----------------|-----------------|----------------|--------------|-------------|
| Inch | mm |                 |                 | Units per Case | Weight (kg.) | Volume (m³) |
| 1½"  | 40 | Threaded BSP    | 11015YPKBP000M8 | 10             | 9.90         | 0.0367      |
| 2"   | 50 |                 | 11002YPKBP000M8 | 10             | 10.00        | 0.0367      |
| 2"L  | 50 |                 | 1102LYPKBP000M8 | 6              | 9.80         | 0.0525      |
| 2½"  | 65 |                 | 11025YPKBP000M8 | 6              | 10.00        | 0.0525      |
| 3"   | 80 |                 | 11003YPKBP000M8 | 6              | 13.20        | 0.0525      |
| 3"   | 80 | Flanged (Metal) | 11003YPKCC000M8 | 2              | 10.70        | 0.0525      |



## BERMAD Pressure Reducing Valve with 2-Way Latching Solenoid Control, Manual Selector & Flow Stem

**I20-55-LS-2W-M**

Solenoid S-392 Latching, 6-20V/DC

| Size |    | Connection      | Cat. No.              | Units per Case |              |             |
|------|----|-----------------|-----------------------|----------------|--------------|-------------|
| Inch | mm |                 |                       | Units per Case | Weight (kg.) | Volume (m³) |
| 1½"  | 40 | Threaded BSP    | 12015YP2BP550M8-S-392 | 6              | 7.80         | 0.0525      |
| 2"   | 50 |                 | 12002YP2BP550M8-S-392 | 6              | 8.00         | 0.0525      |
| 2"L  | 50 |                 | 1202LYP2BP550M8-S-392 | 6              | 8.20         | 0.0525      |
| 2½"  | 65 |                 | 12025YP2BP550M8-S-392 | 4              | 8.60         | 0.0525      |
| 3"   | 80 |                 | 12003YP2BP550M8-S-392 | 4              | 9.60         | 0.0525      |
| 3"   | 80 | Flanged (Metal) | 12003YP2CC550M8-S-392 | 2              | 11.20        | 0.0525      |





## 200 Series

Plastic Hydraulic/Electronic Control Valves for residential, commercial and agricultural irrigation systems.

The BERMAD LANDSCAPE 200 Series plastic control valves range from ¾" to 2" in size, in either globe or angle pattern. These control valves provide superior hydraulic performance, demonstrating state-of-the-art hydraulics and plastics technology.



### Features and Benefits

- Spring Loaded Elastomeric
  - Self operated
  - Range of closing springs
- Plastic Globe Hydro-Efficient Valve
  - Unobstructed flow path
  - Single moving part
  - High flow capacity
  - Highly durable, chemical and cavitation resistant
- Flexible Balances Diaphragm & Seal
  - Fully opening
  - Secures drip-tight closing
- User-Friendly Design
  - Simple in-line inspection

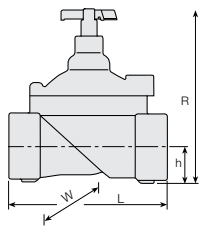


# BERMAD Landscape

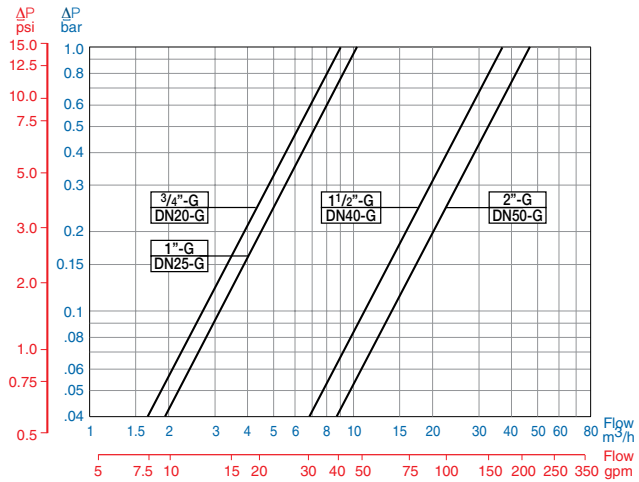
## 200 Series - Technical Specifications

### Dimensions and Weights

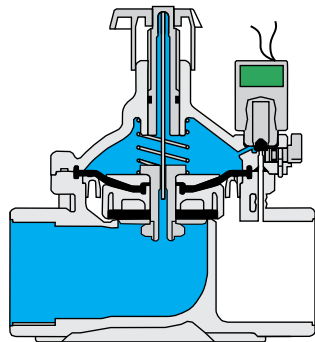
| Pattern |      | Globe |      |     |     |
|---------|------|-------|------|-----|-----|
| Size    | DN   | 20    | 25   | 40  | 50  |
|         | inch | ¾     | 1    | 1½  | 2   |
| L       | mm   | 110   | 110  | 160 | 170 |
|         | inch | 4.3   | 4.3  | 6.3 | 6.7 |
| R       | mm   | 115   | 115  | 180 | 190 |
|         | inch | 4.5   | 4.5  | 7.1 | 7.5 |
| h       | mm   | 22    | 22   | 35  | 38  |
|         | inch | 0.9   | 0.9  | 1.4 | 1.5 |
| W       | mm   | 78    | 78   | 125 | 125 |
|         | inch | 3.1   | 3.1  | 4.9 | 4.9 |
| Weight  | Kg.  | 0.35  | 0.33 | 1   | 1.1 |
|         | lb.  | 0.77  | 0.73 | 2.2 | 2.4 |



### Flow Chart



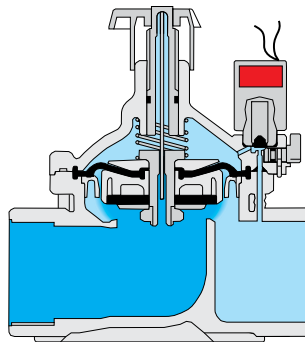
### Operation



#### Closed Position

The internal restriction continuously allows line pressure into the control chamber. The solenoid controls outflow from the control chamber.

When the solenoid is closed it causes pressure to accumulate in the control chamber, thereby forcing the valve to close.



#### Open Position

Opening the Solenoid releases more flow from the control chamber than the restriction can allow in. This causes the accumulated pressure in the control chamber to drop, enabling the line pressure acting on the plug to the valve.

### Technical Specifications

**Sizes:** ¾"-2"; DN20-50

**Patterns:**

Globe: ¾, 1, 1½ & 2"; DN20, 25, 40 & 50

**End Connections:** Female Threads BSP or NPT

**Pressure Rating:** 10 bar; 145 psi

**Operating Pressure Range:** 0.5-10 bar; 7-145 psi

**Materials:**

**Body, Cover and Plug:** Reinforced Nylon

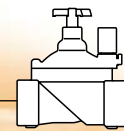
**Diaphragm:** NR

**Seals:** NBR [Buna-N] and NR

**Spring:** Stainless Steel

**Cover Bolts:** Stainless Steel





## BERMAD Hydraulic Control Valve with Flow Stem

| Size   |    | Connection   | Cat. No.        |                |              |                          |
|--------|----|--------------|-----------------|----------------|--------------|--------------------------|
| Inch   | mm |              |                 | Units per Case | Weight (kg.) | Volume (m <sup>3</sup> ) |
| 3/4"   | 20 | Threaded BSP | 20507GP0BP000M0 | 40             | 10.6         | 0.0367                   |
| 1"     | 25 |              | 20501GP0BP000M0 | 40             | 10.5         | 0.0367                   |
| 1 1/2" | 40 |              | 20515GP0BP000M0 | 10             | 10.7         | 0.0367                   |
| 2"     | 50 |              | 20502GP0BP000M0 | 10             | 11.0         | 0.0367                   |



## BERMAD Solenoid Controlled Valve with 2-Way Internal Controls & Flow stem

Solenoid S-390-2W, 24V/AC

| Size   |    | Connection   | Cat. No.        |                |             |                          |
|--------|----|--------------|-----------------|----------------|-------------|--------------------------|
| Inch   | mm |              |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 3/4"   | 20 | Threaded BSP | 21007GP2BP000M0 | 20             | 7.4         | 0.0183                   |
| 1"     | 25 |              | 21001GP2BP000M0 | 20             | 7.4         | 0.0183                   |
| 1 1/2" | 40 |              | 21015GP2BP000M0 | 10             | 11.2        | 0.0367                   |
| 2"     | 50 |              | 21002GP2BP000M0 | 10             | 11.7        | 0.0367                   |



## BERMAD Solenoid Controlled Valve with 3-Way Controls & Flow Stem

Solenoid S-390-3W 24V/AC

| Size   |    | Connection   | Cat. No.             |                |             |                          |
|--------|----|--------------|----------------------|----------------|-------------|--------------------------|
| Inch   | mm |              |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP | 21015GP3BP000M0-S390 | 10             | 11.4        | 0.0367                   |
| 2"     | 50 |              | 21002GP3BP000M0-S390 | 10             | 11.9        | 0.0367                   |



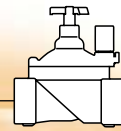
## BERMAD Pressure Reducing Valve with 2-Way Solenoid Control & Flow Stem

Solenoid S-390-2W 24V/AC

| Size   |    | Connection   | Cat. No.        |                |             |                          |
|--------|----|--------------|-----------------|----------------|-------------|--------------------------|
| Inch   | mm |              |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP | 22015GP2BP550M0 | 2              | 3.8         | 0.0306                   |
| 2"     | 50 |              | 22002GP2BP550M0 | 2              | 4.1         | 0.0306                   |








## BERMAD Latching Solenoid Controlled Valve with 2-Way Control & Flow Stem

210-LS-2W-M

Solenoid S-392 Latching, 6-20VDC

| Size   |    | Connection   | Cat. No.        |  |             |                          |
|--------|----|--------------|-----------------|---|-------------|--------------------------|
| Inch   | mm |              |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 3/4"   | 20 | Threaded BSP | 21007GP9BP000M0 | 20  | 7.5         | 0.0183                   |
| 1"     | 25 |              | 21001GP9BP000M0 | 20  | 7.3         | 0.0183                   |
| 1 1/2" | 40 |              | 21015GP9BP000M0 | 10  | 11.2        | 0.0367                   |
| 2"     | 50 |              | 21002GP9BP000M0 | 10  | 11.7        | 0.0367                   |


DC



## BERMAD Latching Solenoid Controlled Valve with 3-Way Control & Flow Stem

210-LS-3W-M

Solenoid S-982 Latching, 12-50V/DC

| Size   |    | Connection   | Cat. No.        |  |             |                          |
|--------|----|--------------|-----------------|---|-------------|--------------------------|
| Inch   | mm |              |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP | 21015GPKBP000M0 | 10  | 11.2        | 0.0367                   |
| 2"     | 50 |              | 21002GPKBP000M0 | 10  | 11.7        | 0.0367                   |


DC



## BERMAD Pressure Reducing Valve with 2-Way Latching Solenoid Control & Flow Stem

220-55-LS-2W-M

Solenoid S-392 Latching, 6-20VDC

| Size   |    | Connection   | Cat. No.             |  |             |                          |
|--------|----|--------------|----------------------|---|-------------|--------------------------|
| Inch   | mm |              |                      | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1 1/2" | 40 | Threaded BSP | 22015GP2BP550M0-S392 | 2   | 3.8         | 0.0306                   |
| 2"     | 50 |              | 22002GP2BP550M0-S392 | 2   | 4.1         | 0.0306                   |

DC



## Landscape Combine Valves Series

BERMAD's landscape combination valves are designed for gardens and landscapes with an aesthetical and compact installation.

The all-in-one construction eliminates extra parts, taking up less space and easily fits into a compact valve box.

Only BERMAD offers, adjustable pressure regulator, enabling complete control over water pressure and flow.

The system connects to an irrigation controller for efficient water management. In the event of power failure, the system can be manually controlled.

Made from high quality, durable materials, BERMAD's landscape combination valves ensure long life and trouble free operation.

Every element is manufactured to international quality standards, delivering optimal performance.

BERMAD brings you the highest quality pressure regulator, filter, and electric valve in a handy all-in-one system for quick and easy assembly - no connectors needed and no tools required!



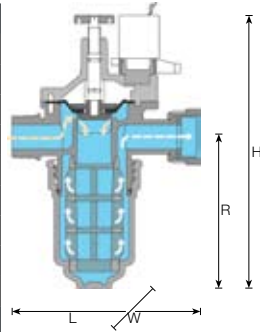
### Features and Benefits

- Saves space - Compact modular system is ideal for gardens and landscapes using drip or micro-irrigation, sprinkler systems, and more
- All-in-one - One system including low-flow irrigation valve, pressure regulator, and filter (in single-piece construction), thereby reducing system components
- Quick installation - Fast DIY assembly; no tools needed
- Long-lasting - Manufactured from high-quality, durable materials to ensure long life and trouble free operation
- Reliable performance - Each component is manufactured to the highest standards
- Cost-effective - Enables tight control over water flow and usage
- Compatible - Connects to most irrigation controllers for efficient water management



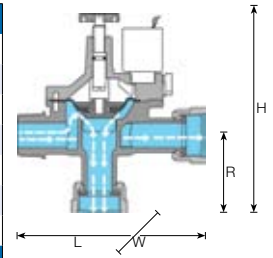
### Electric Filter Valve (EFV)

| Technical Specifications                           |
|--|
| Body & Cover: Reinforced nylon                     |
| Metal Parts: Stainless Steel                       |
| Diaphragm: NR                                      |
| Seals: NBR (Buna-N)                                |
| Filter Screen: Stainless Steel -130 micron         |
| Filter Cover: Polypropylene                        |
| End Connection: 1"/25 mm                           |
| Inlet: Male BSP; NPT                               |
| Outlet: Female BSP-Union; NPT-Union                |
| Pressure   |
| Pressure & Flow Rating: 10 bar:130 psi             |
| Flow Range: 0.01-3 m <sup>3</sup> /h : 0.04-13 gpm |
| KV = 8.08 m <sup>3</sup> /h; CV = 9.33 GPM         |
| Electrical Data                                    |
| Solenoid: S-390-2W-24V/AC                          |
| Holding current: 125 mA                            |
| Inrush current: 250 mA                             |
| Protection: NEMA4                                  |
| Solenoid: S-392-2W-6-20V/DC (LATCH)                |
| Voltage Range: 6-20 V/DC                           |
| Pulse Width: 20-100 mSec                           |
| Recommended Capacitor: 4700 qF                     |
| Protection: NEMA4                                  |
| Dimensions and Weight                              |
| Length: 4.92"/125 mm                               |
| Height: 8.19"/208 mm                               |
| Width: 3.15"/80 mm                                 |
| Weight: 0.90 lb/0.395 kg                           |



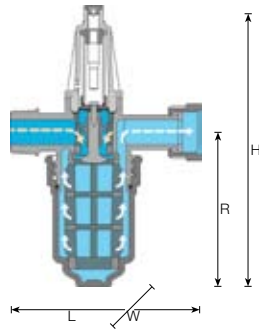
### Electric Manifold Valve (EMV)

| Technical Specifications                          |
|---|
| Body & Cover: Reinforced nylon                    |
| Metal Parts: Stainless Steel                      |
| Diaphragm: NR                                     |
| Seals: NBR (Buna-N)                               |
| End Connection: 1"/25 mm                          |
| Inlet: Male BSP; NPT                              |
| Outlet: Female BSP-Union; NPT-Union               |
| Pressure  |
| Pressure & Flow Rating: 10 bar: 130 psi           |
| Flow Range: 0.01-3 m <sup>3</sup> /h: 0.04-13 gpm |
| KV=8.8 m <sup>3</sup> /h; CV=10.17 gpm            |
| Electrical Data                                   |
| Solenoid: S-390-24V/AC                            |
| Holding current: 125 mA                           |
| Inrush current: 250 mA                            |
| Protection: NEMA4                                 |
| Solenoid: S-392:6-20 V/DC (LATCH)                 |
| Voltage Range: 6-20 V/DC                          |
| Pulse Width: 20-100 m/Sec                         |
| Recommended Capacitor: 4700 qF                    |
| Protection: NEMA4                                 |
| Dimensions and Weight                             |
| Length: 4.92"/125 mm                              |
| Height: 5.35"/136 mm                              |
| Width: 3.15"/80 mm                                |
| Weight: 0.75 lb/0.342 kg                          |



### Pressure Reducing Filter (PRF)

| Technical Specifications                           |
|--|
| Body & Cover: Reinforced nylon                     |
| Metal Parts: Stainless Steel                       |
| Diaphragm: NBR (Buna-N) Reinforced nylon fabric    |
| Springs: Stainless Steel                           |
| Filter Screen: Stainless Steel - 130 micron        |
| Filter Cover: Polypropylene                        |
| End Connection: 1"/25 mm                           |
| Inlet: Male BSP; NPT                               |
| Outlet: Female BSP-Union; NPT-Union                |
| Pressure   |
| Pressure Rating: 10 bar: 130 psi                   |
| Flow Range: 0.01-3 m <sup>3</sup> /h : 0.04-13 gpm |
| KV=3.6 m <sup>3</sup> /h/ CV=4.15 gpm              |
| Dimensions and Weight                              |
| Length: 4.92"/125 mm                               |
| Height: 8.15"/207 mm                               |
| Width: 3.15"/80 mm                                 |
| Weight: 0.62 lb/0.280 kg                           |





# BERMAD Landscape

## Landscape Combine Valves


### EMV - Electric Manifold, Male Inlet, Record Outlet

**NEW** EMV-AC

Solenoid S-390-2W, 24V/AC

Inlet: Male; Outlet: Female-Union

| Size |    | Connection   | Cat. No.        |
|------|----|--------------|-----------------|
| Inch | mm |              |                 |
| 1"   | 25 | Threaded BSP | GM101GP2BR000M0 |

|  |             |                          |
|---|-------------|--------------------------|
| Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 16  | 6           | 0.0273                   |



AC


### EFV - Electric Filter Valve, Male Inlet, Record Outlet

**NEW** EFV-AC

Solenoid S-390-2W, 24V/AC

Inlet: Male; Outlet: Female-Union

| Size |    | Connection   | Cat. No.        |
|------|----|--------------|-----------------|
| Inch | mm |              |                 |
| 1"   | 25 | Threaded BSP | GF101GP2BR000M0 |

|  |             |                          |
|---|-------------|--------------------------|
| Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 16  | 7           | 0.0400                   |



AC


### EMV - Electric Latching Manifold, Male Inlet, Record Outlet

**NEW** EMV-LS

Solenoid S-392 Latching, 6-20VDC

Inlet: Male; Outlet: Female-Union

| Size |    | Connection   | Cat. No.        |
|------|----|--------------|-----------------|
| Inch | mm |              |                 |
| 1"   | 25 | Threaded BSP | GM101GP9BR000M0 |

|  |             |                          |
|---|-------------|--------------------------|
| Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 16  | 6           | 0.0273                   |



DC


### EFV - Electric Latching Filter Valve, Male Inlet, Record Outlet

**NEW** EFV-LS

Solenoid S-392 Latching, 6-20VDC

Inlet: Male; Outlet: Female-Union

| Size |    | Connection   | Cat. No.        |
|------|----|--------------|-----------------|
| Inch | mm |              |                 |
| 1"   | 25 | Threaded BSP | GF101GP9BR000M0 |

|  |             |                          |
|---|-------------|--------------------------|
| Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 16  | 7           | 0.0400                   |



DC


## PRF - Pressure Reducing Filter, Male Inlet, Record Outlet

**NEW**

**PRF**

Flow 0.2- 5.0 m<sup>3</sup>/h

Inlet: Male; Outlet: Female-Union

| Size |    | Pressure Bar<br>(kg/cm <sup>2</sup> ) | Connection   | Cat. No.        |  |             |                          |
|------|----|---------------------------------------|--------------|-----------------|--|-------------|--------------------------|
| Inch | mm |                                       |              |                 | Units per Case   | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1"   | 25 | 1.4                                   | Threaded BSP | GRV01GP0BR00014 | 16   | 7           | 0.0400                   |
| 1"   | 25 | 2.5                                   | Threaded BSP | GRV01GP0BR00025 | 16   | 7           | 0.0400                   |




## PRF-05 - Pressure Reducing Filter - Low Flow, Male Inlet, Record Outlet

**NEW**

**PRF-05**

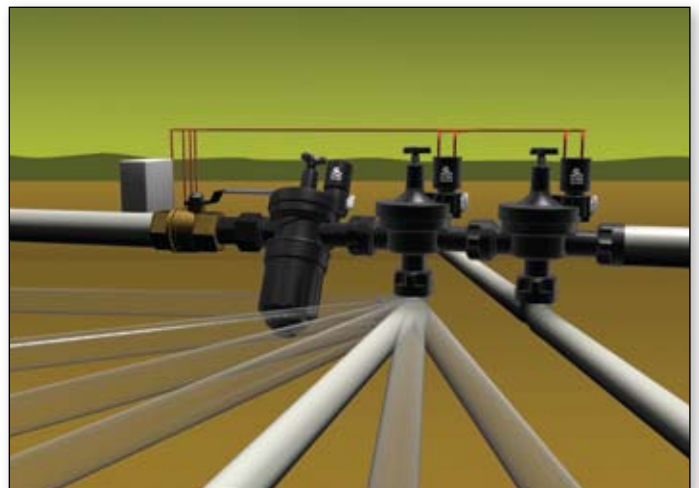
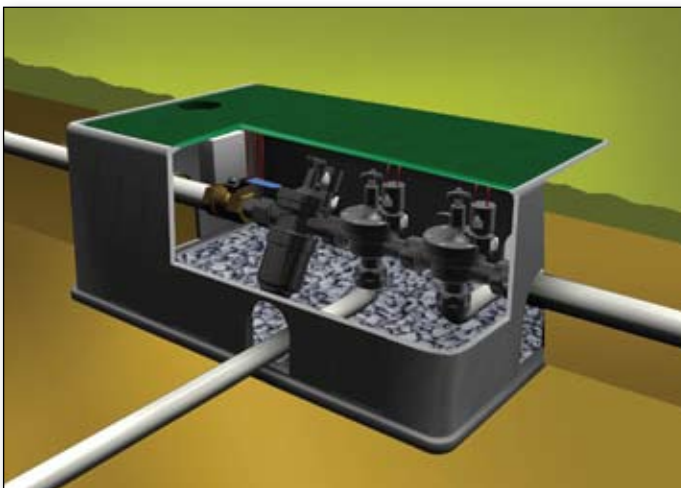
Low Flow 0.01- 5.0 m<sup>3</sup>/h

Inlet: Male; Outlet: Female-Union

| Size |    | Pressure Bar<br>(kg/cm <sup>2</sup> ) | Connection   | Cat. No.        |  |             |                          |
|------|----|---------------------------------------|--------------|-----------------|--|-------------|--------------------------|
| Inch | mm |                                       |              |                 | Units per Case   | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1"   | 25 | 1.4                                   | Threaded BSP | GRV01GP0BR05014 | 16   | 7           | 0.0400                   |
| 1"   | 25 | 2.5                                   | Threaded BSP | GRV01GP0BR05025 | 16   | 7           | 0.0400                   |



## Typicle Application





## 40R Series

The BERMAD Hydraulic Control Landscape Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to a local or remote pressure command.



### Features and Benefits

- Hydraulic Control Valve
  - Line pressure driven
  - Hydraulically controlled On/Off
- Advanced Globe Hydro-Efficient Design
  - Unobstructed flow path
  - Single moving part
  - High flow capacity
- Fully Supported & Balanced Diaphragm
  - Requires low opening and actuation pressure
  - Progressively restrains valve closing
  - Prevents diaphragm distortion
- User-Friendly Design
  - Simple in-line inspection
  - Easy addition of control features
- Easy to Install - Thanks to the union connection at the inlet side of the valve
- Simple Maintenance - Easily serviceable





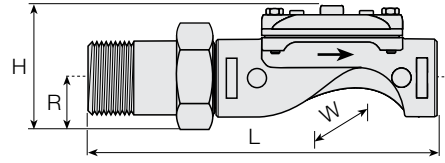
# BERMAD Landscape

## 4OR Series – Technical Specifications

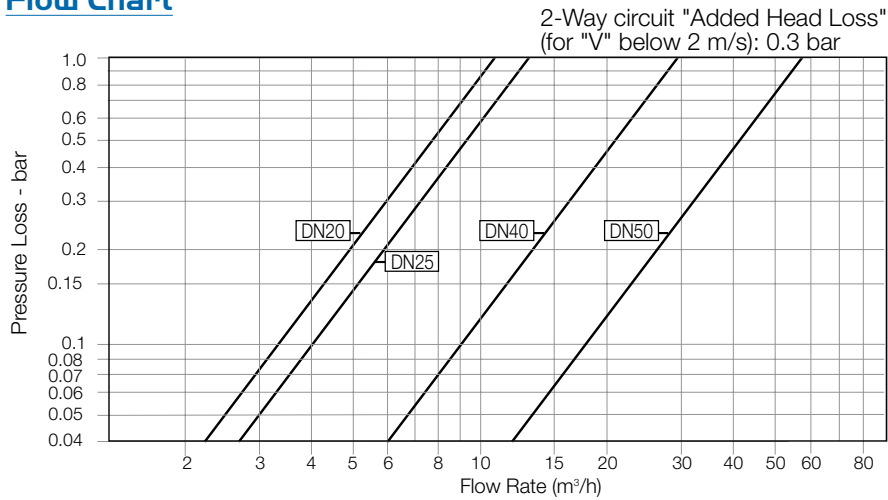
### Dimensions and Weights

#### Globe Pattern GR-400

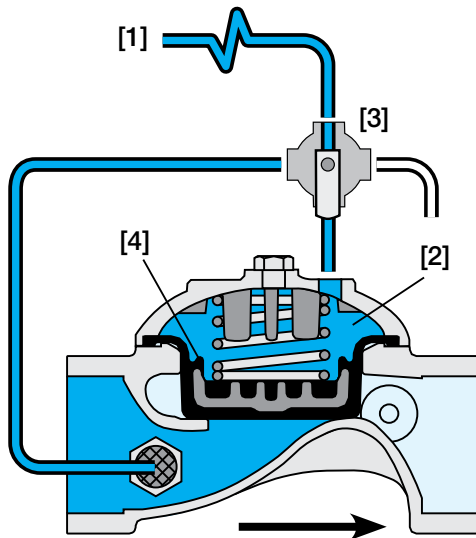
| Size        | 1"  | 1½" | 2"  |
|-------------|-----|-----|-----|
| L (mm)      | 178 | 235 | 475 |
| H (mm)      | 70  | 91  | 119 |
| W (mm)      | 72  | 95  | 120 |
| R (mm)      | 27  | 40  | 55  |
| Weight (kg) | 1.5 | 2.5 | 4.5 |



### Flow Chart



### Operation



Hydraulic Command [1] is applied to the Control Chamber [2] through the Manual Selector [3]. This creates superior closing force that moves the Diaphragm Assembly [4] to a closed position.

- 16 Discharging pressure from the control chamber, by turning the manual selector, causes the line pressure acting on the lower side of the diaphragm assembly to move the Valve to an open position.

### Technical Specifications

**Sizes:** 1"-2"; DN25-50

**Patterns:**

Globe: 1", 1½" & 2"; DN25, 40 & 50

**End Connections:** External Threads BSP

**Pressure Rating:** 10 bar; 145 psi

**Operating Pressure Range:** 0.5-10 bar; 7-145 psi

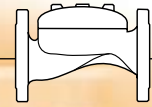
**Materials:**

**Body, Cover and Plug:** Brass

**Diaphragm:** NR

**Spring:** Stainless Steel

**Bolts, Studs and Nuts:** Zinc-Cobalt Plated Steel



## BERMAD Hydraulic Control Landscape Valve

Basic Valve & Inlet Records

GR-4OR

| Size |    | Connection            | Cat. No.        |                |             |                          |
|------|----|-----------------------|-----------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1"   | 25 | External Threaded BSP | 40R01GR0BP0000  | 6              | 9.40        | 0.0160                   |
| 1½"  | 40 |                       | 40R15GR0BP00000 | 4              | 11.27       | 0.0160                   |
| 2"   | 50 |                       | 40R02GR0BP00000 | 2              | 8.46        | 0.0160                   |



## BERMAD Solenoid Controlled Landscape Valve & Inlet Records

Solenoid S-390-3W-24V/AC

GR-4IR-KX

| Size |    | Connection            | Cat. No.             |                |             |                          |
|------|----|-----------------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1"   | 25 | External Threaded BSP | 41R01GR0BS003S8-S390 | 6              | 10.60       | 0.0183                   |
| 1½"  | 40 |                       | 41R15GR0BS003S8-S390 | 4              | 12.00       | 0.0183                   |
| 2"   | 50 |                       | 41R02GR0BS003S8-S390 | 2              | 8.90        | 0.0183                   |



## BERMAD Pressure Reducing Landscape Valve

with 2-Way Electric Control & Inlet Records

GR-42R-55-2W-K

Solenoid S-390-2W-24V/AC

| Size |    | Connection            | Cat. No.        |                |             |                          |
|------|----|-----------------------|-----------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 42R15GR0BS552P8 | 2              | 7.20        | 0.0183                   |
| 2"   | 50 |                       | 42R02GR0BS552P8 | 2              | 9.50        | 0.0183                   |



## BERMAD Pressure Reducing Landscape Valve

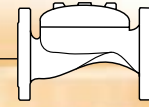
with 3-Way Electric Control & Inlet Records

GR-42R-55-3W-K

Solenoid S-390-3W-24V/AC

| Size |    | Connection            | Cat. No.        |                |             |                          |
|------|----|-----------------------|-----------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 42R15GR0BS553P8 | 2              | 7.30        | 0.0183                   |
| 2"   | 50 |                       | 42R02GR0BS553P8 | 2              | 9.60        | 0.0183                   |





## BERMAD Latching Solenoid Controlled Valve with 3-Way Control & Inlet Records

**GR-41R-LS-3W-K**

Solenoid S-982 Latching, 12-50V/DC

| Size |    | Connection            | Cat. No.             |                |             |                          |
|------|----|-----------------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1"   | 25 | External Threaded BSP | 41R01GR0BS003S8-S982 | 6              | 10.80       | 0.0183                   |
| 1½"  | 40 |                       | 41R15GR0BS003S8-S982 | 4              | 12.10       | 0.0183                   |
| 2"   | 50 |                       | 41R02GR0BS003S8-S982 | 2              | 9.00        | 0.0183                   |

DC



## BERMAD Pressure Reducing Landscape Valve with 2-Way Latching Solenoid Control & Inlet Records

**GR-42R-55-LS-2W-K**

Solenoid S-392 Latching, 6-20V/DC

| Size |    | Connection            | Cat. No.             |                |             |                          |
|------|----|-----------------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 42R15GR0BS552P8-S392 | 2              | 7.20        | 0.0183                   |
| 2"   | 50 |                       | 42R02GR0BS552P8-S392 | 2              | 9.50        | 0.0183                   |

DC



## BERMAD Pressure Reducing Landscape Valve with 3-Way Latching Solenoid Control Inlet Records

**GR-42R-55-LS-3W-K**

Solenoid S-982 Latching, 12-50V/DC

| Size |    | Connection            | Cat. No.             |                |             |                          |
|------|----|-----------------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 42R15GR0BS553P8-S982 | 2              | 7.30        | 0.0183                   |
| 2"   | 50 |                       | 42R02GR0BS553P8-S982 | 2              | 9.60        | 0.0183                   |

DC





## 400 Series

The BERMAD Hydraulic Control Landscape Valve is a hydraulically operated, diaphragm actuated control valve that opens and shuts in response to a local or remote pressure command.



### Features and Benefits

- Hydraulic Control Valve
  - Line pressure driven
  - Hydraulically controlled On/Off
- Advanced Globe Hydro-Efficient Design
  - Unobstructed flow path
  - Single moving part
  - High flow capacity
- Fully Supported & Balanced Diaphragm
  - Requires low opening and actuation pressure
  - Progressively restrains valve closing
  - Prevents diaphragm distortion
- User-Friendly Design
  - Simple in-line inspection
  - Easy addition of control features

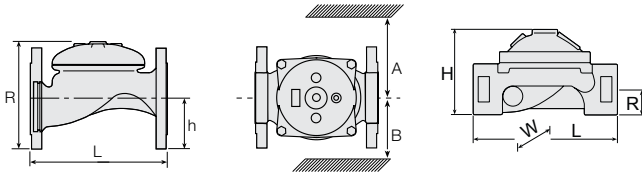


# BERMAD Landscape

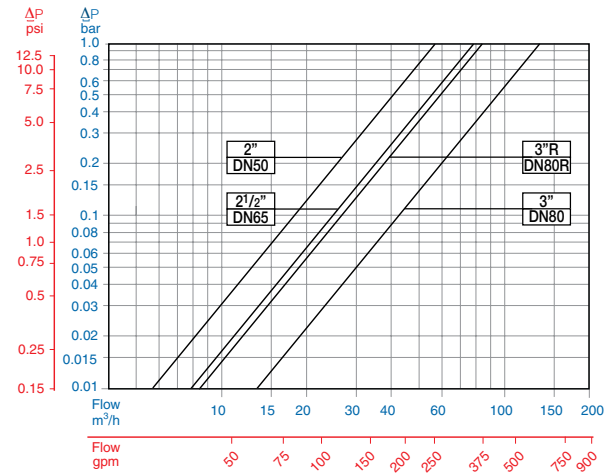
## 400 Series - Technical Specifications

### Dimensions and Weights

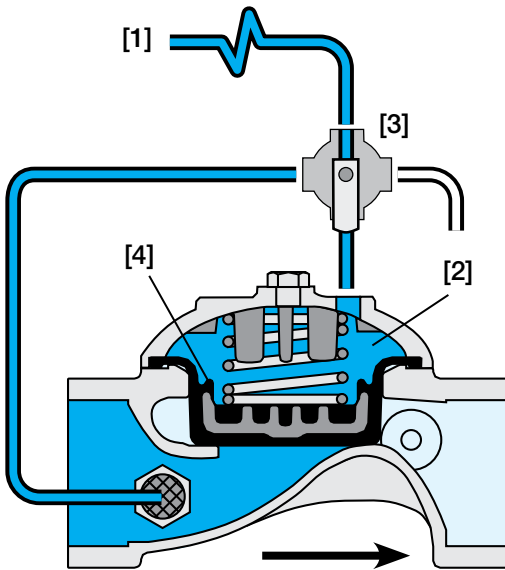
| Pattern     |            | Globe        |          |          |          |
|-------------|------------|--------------|----------|----------|----------|
| Connections |            | Threaded     |          |          | Flange   |
| Size        | DN<br>Inch | 40<br>1 1/2" | 50<br>2" | 80<br>3" | 80<br>3" |
| L           | mm         | 153          | 180      | 255      | 250      |
|             | inch       | 6            | 7.1      | 10.0     | 9.8      |
| R           | mm         | 87           | 114      | 165      | 210      |
|             | inch       | 3.4          | 4.5      | 6.5      | 8.25     |
| h           | mm         | 29           | 39       | 55       | 100      |
|             | inch       | 1.1          | 1.5      | 2.2      | 3.9      |
| A; B        | mm         | 130          | 130      | 175      |          |
|             | inch       | 5            | 5        | 7        |          |
| Weight      | Kg         | 2            | 4        | 13       | 19       |
|             | lb.        | 4.4          | 8.8      | 28.7     | 41.9     |



### Flow Chart



### Operation



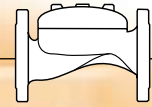
Hydraulic Command [1] is applied to the Control Chamber [2] through the Manual Selector [3]. This creates superior closing force that moves the Diaphragm Assembly [4] to a closed position. Discharging pressure from the control chamber, by turning the manual selector, causes the line pressure acting on the lower side of the diaphragm assembly to move the Valve to an open position.

## 20 Technical Data

**Pressure Rating:** 16 bar; 232 psi

**Operating Pressure Range:** 0.5-16 bar; 7-232 psi

For lower pressure requirements, consult factory



## BERMAD Basic Hydraulic Control Valve

405

| Size |    | Connection     | Cat. No.        |                |             |                          |
|------|----|----------------|-----------------|----------------|-------------|--------------------------|
| Inch | mm |                |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 40515GI1BP00000 | 10             | 11.17       | 0.0160                   |
| 2"   | 50 |                | 40502GI1BP00000 | 10             | 11.42       | 0.0160                   |
| 3"   | 80 |                | 40503GI1BP00000 | 4              | 13.20       | 0.0183                   |
| 3"   | 80 | Flanged ISO-16 | 40503GI11600000 | 4              | 13.66       | 0.0183                   |



## BERMAD Solenoid Control Valve

410-KX

Solenoid 5-390-3W-24V/AC

| Size |    | Connection     | Cat. No.             |                |             |                          |
|------|----|----------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 41015GI1BP003S8-S390 | 2              | 8.80        | 0.0183                   |
| 2"   | 50 |                | 41002GI1BP003S8-S390 | 2              | 9.30        | 0.0183                   |
| 3"   | 80 |                | 41003GI1BP003S8-S390 | 1              | 13.10       | 0.0183                   |
| 3"   | 80 | Flanged ISO-16 | 41003GI116003S8-S390 | 1              | 13.70       | 0.0183                   |



## BERMAD Pressure Reducing Valve with 2-Way Electric Control

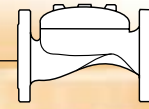
420-55-2W-K

Solenoid 5-390-2W-24V/AC

| Size |    | Connection   | Cat. No.        |                |             |                          |
|------|----|--------------|-----------------|----------------|-------------|--------------------------|
| Inch | mm |              |                 | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP | 42015GI1BP552P8 | 2              | 9.60        | 0.0183                   |
| 2"   | 50 |              | 42002GI1BP552P8 | 2              | 10.20       | 0.0306                   |
| 3"   | 80 |              | 42003GI1BP552P8 | 1              | 13.70       | 0.0306                   |
| 3"   | 80 | Flanged BSTD | 42003GI116552P8 | 1              | 14.30       | 0.0306                   |







## BERMAD Latching Solenoid Controlled Valve with 2-Way Control

410-LS-2W-K

Solenoid S-392 Latching, 6-20V/DC

| Size |    | Connection   | Cat. No.             |                |             |                          |
|------|----|--------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |              |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP | 41015GI1BP002S8-S392 | 2              | 8.80        | 0.0183                   |
| 2"   | 50 |              | 41002GI1BP002S8-S392 | 2              | 9.30        | 0.0183                   |
| 3"   | 80 |              | 41003GI1BP002S8-S392 | 1              | 13.10       | 0.0183                   |
| 3"   | 80 | Flanged BSTD | 41003GI116002S8-S392 | 1              | 13.70       | 0.0183                   |

DC



## BERMAD Latching Solenoid Controlled Valve with 3-Way Control

410-LS-3W-K

Solenoid S-982 Latching, 12-50V/DC

| Size |    | Connection     | Cat. No.             |                |             |                          |
|------|----|----------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 41015GI1BP003S8-S982 | 2              | 9.20        | 0.0183                   |
| 2"   | 50 |                | 41002GI1BP003S8-S982 | 2              | 9.70        | 0.0183                   |
| 3"   | 80 |                | 41003GI1BP003S8-S982 | 1              | 13.30       | 0.0183                   |
| 3"   | 80 | Flanged ISO-16 | 41003GI116003S8-S982 | 1              | 13.90       | 0.0183                   |

DC



## BERMAD Pressure Reducing Valve with 2-Way Latching Solenoid Control

420-55-LS-2W-K

Solenoid S-392 Latching, 6-20V/DC

| Size |    | Connection     | Cat. No.             |                |             |                          |
|------|----|----------------|----------------------|----------------|-------------|--------------------------|
| Inch | mm |                |                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 42015GI1BP552P8-S392 | 2              | 9.20        | 0.0183                   |
| 2"   | 50 |                | 42002GI1BP552P8-S392 | 2              | 10.00       | 0.0306                   |
| 3"   | 80 |                | 42003GI1BP552P8-S392 | 1              | 13.60       | 0.0306                   |
| 3"   | 80 | Flanged ISO-16 | 42003GI116552P8-S392 | 1              | 14.20       | 0.0306                   |

DC



## 90R Series

The BERMAD Landscape Hydrometer with Magnetic Drive integrates a vertical turbine Woltman-type water meter with a diaphragm actuated hydraulic control valve. The impeller drive is magnetically coupled to a vacuum-sealed meter register in the control head.

Serving as Flow Meter and Main Valve, the BERMAD Model 90R-M0-Z controls irrigation together with the irrigation controller. It opens and shuts in response to remote hydraulic commands or locally by its manual selector.



### Features and Benefits

- Integrated "All-in-One" Control Valve
  - Saves space, cost and maintenance
- Hydraulically Controlled Hydrometer
  - Line pressure driven
- Magnetic Drive with Vacuum-Sealed Register
  - Water-free gear train mechanism
  - Reed-switch and Opto pulse-generating modes
  - Various pulse combinations
- Internal Inlet & Outlet Flow Straighteners
  - Saves on straightening distances
  - Maintains accuracy
- Integrated Flow Metering Calibration Device
  - Precise measurement
- User-Friendly Design
  - Simple in-line inspection and service

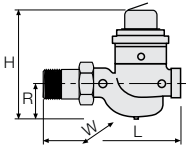


# BERMAD Landscape

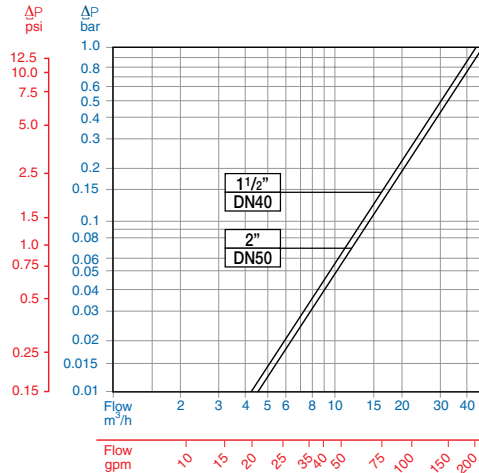
## 90R Series - Technical Specifications

### Dimensions and Weights

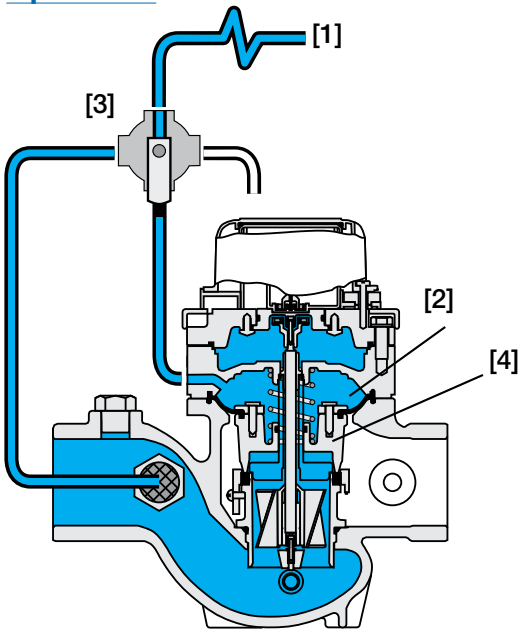
| Connections |    | Threaded |      |
|-------------|----|----------|------|
| Size        | mm | DN40     | DN50 |
| L           | mm | 317      | 327  |
| W           | mm | 137      | 137  |
| H           | mm | 270      | 277  |
| R           | mm | 95       | 95   |
| Weight      | Kg | 7.2      | 7.3  |



### Flow Chart



### Operation



A Hydraulic Command [1] is applied to the Control Chamber [2], through the Manual Selector [3]. This creates a superior closing force that moves the Diaphragm Assembly [4] to a closed position. Discharging pressure from the control chamber, by turning the manual selector, causes the line pressure acting on the lower side of the diaphragm assembly to move the Hydrometer to an open position, and measure the flow rate.

### Accuracy Table

|                                 | Accuracy | DN40     | DN50     |
|---------------------------------|----------|----------|----------|
| Q1 Minimum Flow                 | ±5%      | .8       | 0.8      |
| Q2 Transitional Flow            | ±2%      | 1.3      | 1.3      |
| Qn Nominal Flow ISO 4064-1-1993 | ±2%      | 15       | 15       |
| Q3 Permanent Flow               | ±2%      | 25       | 40       |
| Q4 Maximum Flow (Short Time)    | ±2%      | 31       | 50       |
| Q2/Q1                           | -        | 1.6      | 1.6      |
| Q3/Q1                           | -        | 31       | 50       |
| <b>Class ISO 4064-1-1993</b>    | -        | <b>A</b> | <b>A</b> |

### Pulse Option

| Size               | One pulse per | Liter, Gallon |
|--------------------|---------------|---------------|
|                    |               | 1, 0.1        |
| 1 1/2"-2", DN40-50 |               | ■             |
|                    |               | ■             |

### Technical Data

#### End Connections:

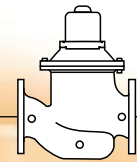
Threaded: 1 1/2, 2 ; DN40, 50

Pressure Rating: 16 bar; 232 psi

**Minimum Operating Pressure:** 0.5 bar; 7 psi

For lower pressure requirements, consult factory





## BERMAD Hydraulic Super Hydrometer Landscape Valve with Magnetic Drive, Manual Selector, Pulse 0.1 m<sup>3</sup> & Records

**GR-90R/M0-0U-MZ-R02**

Inlet: Male-Union, Outlet: Female

| Size |    | Connection            | Cat. No.                             | Units per Case |             |                          |
|------|----|-----------------------|--------------------------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                                      | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 90R15GIM0BS0UM08Z-0.1 m <sup>3</sup> | 1              | 8.90        | 0.0306                   |
| 2"   | 50 |                       | 90R02GIM0BS0UM08Z-0.1 m <sup>3</sup> | 1              | 9.20        | 0.0306                   |



## BERMAD Super Hydrometer 3-Way Control Solenoid Landscape Valve with Magnetic Drive, Pulse 0.1 m<sup>3</sup> & Records

**GR-91R/M0-0U-KX-R02**

Inlet: Male-Union, Outlet: Female  
Solenoid S-390-3W-24V/AC

| Size |    | Connection            | Cat. No.                            | Units per Case |             |                          |
|------|----|-----------------------|-------------------------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                                     | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 91R15GIM0BP0UM08-0.1 m <sup>3</sup> | 1              | 9.10        | 0.0306                   |
| 2"   | 50 |                       | 91R02GIM0BP0UM08-0.1 m <sup>3</sup> | 1              | 9.40        | 0.0306                   |



## BERMAD Super Pressure Reducing Hydrometer Landscape with Magnetic Drive, 2-Way Solenoid Control, Pressure Gauge, Pulse 0.1 m<sup>3</sup> & Records

**GR-92R/M0-5S-2W-K6-R02**

Inlet: Male-Union, Outlet: Female  
Solenoid S-390-2W-24V/AC

| Size |    | Connection            | Cat. No.                                 | Units per Case |             |                          |
|------|----|-----------------------|--|----------------|-------------|--------------------------|
| Inch | mm |                       |  | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 92R15GIM0BP5S00M086-2W-0.1m <sup>3</sup> | 1              | 9.50        | 0.0306                   |
| 2"   | 50 |                       | 92R02GIM0BP5S00M086-2W-0.1m <sup>3</sup> | 1              | 9.80        | 0.0306                   |



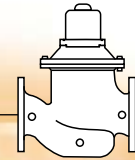
## BERMAD Super Pressure Reducing Hydrometer Landscape with Magnetic Drive, 3-Way Electric Control, Pressure Gauge, Pulse 0.1 m<sup>3</sup> & Records

**GR-92R/M0-5S-3W-K6-R02**

Inlet: Male-Union, Outlet: Female  
Solenoid S-390-3W-24V/AC

| Size |    | Connection            | Cat. No.                              | Units per Case |             |                          |
|------|----|-----------------------|---------------------------------------|----------------|-------------|--------------------------|
| Inch | mm |                       |                                       | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | External Threaded BSP | 92R15GIM0BP5S00M086-0.1m <sup>3</sup> | 1              | 9.50        | 0.0306                   |
| 2"   | 50 |                       | 92R02GIM0BP5S00M086-0.1m <sup>3</sup> | 1              | 9.80        | 0.0306                   |





## BERMAD Super Hydrometer Landscape Latching 3-Way Control Solenoid

with Magnetic Drive, Pulse 0.1 m<sup>3</sup> & Records

**GR-91R/M0-0U-LS-KX-R02**

Inlet: Male-Union, Outlet: Female

Solenoid S-982 Latching, I2-50V/DC

| Size |    | Connection            | Cat. No.                                 |
|------|----|-----------------------|--|
| Inch | mm |                       |  |
| 1½"  | 40 | External Threaded BSP | 91R15GIM0BP0UM08-S982-0.1 m <sup>3</sup> |
| 2"   | 50 |                       | 91R02GIM0BP0UM08-S982-0.1 m <sup>3</sup> |

| Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 1              | 9.20        | 0.0306                   |
| 1              | 9.50        | 0.0306                   |



DC

## BERMAD Super Pressure Reducing Hydrometer Landscape

with Magnetic Drive, Latching 2-Way Solenoid Control, Pressure Gauge, Pulse 0.1 m<sup>3</sup> & Records

**GR-92R/M0-5S-2W-LS-K6-R02**

Inlet: Male-Union, Outlet: Female

Solenoid S-392-2W-6-20V/DC

| Size |    | Connection            | Cat. No.                                 |
|------|----|-----------------------|--|
| Inch | mm |                       |  |
| 1½"  | 40 | External Threaded BSP | 92R15GIM0BP5SM086-S392-0.1m <sup>3</sup> |
| 2"   | 50 |                       | 92R02GIM0BP5SM086-S392-0.1m <sup>3</sup> |

| Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 1              | 9.50        | 0.0306                   |
| 1              | 9.80        | 0.0306                   |



DC

## BERMAD Super Pressure Reducing Hydrometer Landscape

with Magnetic Drive, Latching 3-Way Solenoid Control, Pressure Gauge, Pulse 0.1 m<sup>3</sup> & Records

**GR-92R/M0-5S-3W-LS-K6-R02**

Inlet: Male-Union, Outlet: Female

Solenoid S-982 Latching, I2-50V/DC

| Size |    | Connection            | Cat. No.                                 |
|------|----|-----------------------|--|
| Inch | mm |                       |  |
| 1½"  | 40 | External Threaded BSP | 92R15GIM0BP5SM086-S982-0.1m <sup>3</sup> |
| 2"   | 50 |                       | 92R02GIM0BP5SM086-S982-0.1m <sup>3</sup> |

| Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 1              | 9.50        | 0.0306                   |
| 1              | 9.80        | 0.0306                   |



DC

## 900 Series

The BERMAD Landscape Hydrometer with Magnetic Drive integrates a vertical turbine Woltman-type water meter with a diaphragm actuated hydraulic control valve. The impeller drive is magnetically coupled to a vacuum-sealed meter register in the control head. Serving as Flow Meter and Main Valve, the BERMAD Model 900-M0 controls irrigation together with the irrigation controller. It opens and shuts in response to remote hydraulic commands or locally by its manual selector.



### Features and Benefits

- Integrated “All-in-One” Control Valve
  - Saves space, cost and maintenance
- Hydraulically Controlled Hydrometer
  - Line pressure driven
- Magnetic Drive with Vacuum-Sealed Register
  - Water-free gear train mechanism
  - Reed-switch and Opto pulse-generating modes
  - Various pulse combinations
- Internal Inlet & Outlet Flow Straighteners
  - Saves on straightening distances
  - Maintains accuracy
- Integrated Flow Metering Calibration Device
  - Precise measurement
- User-Friendly Design
  - Simple in-line inspection and service

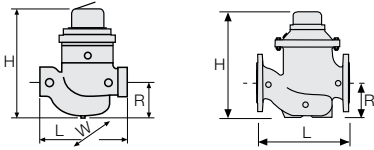


# BERMAD Landscape

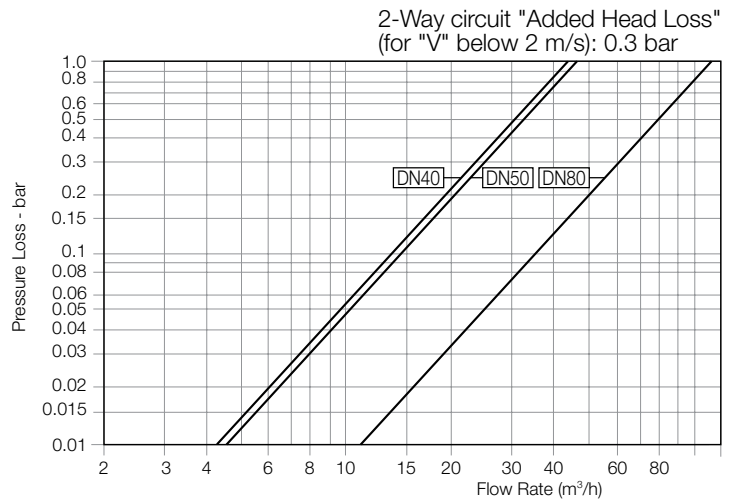
## 900 Series - Technical Specifications

### Dimensions and Weights

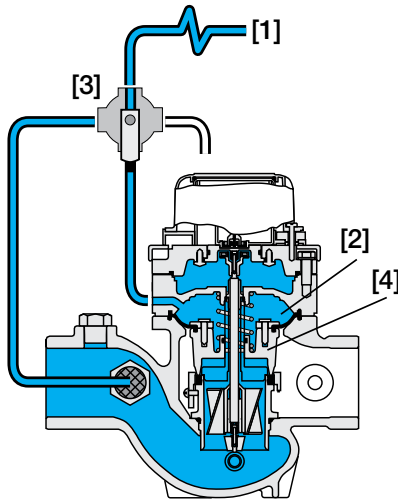
| Size   | DN<br>Inch | 40-T<br>1 1/2-T | 50-T<br>2-T | 80R-T<br>3R-T | 80-F<br>3-F |
|--------|------------|-----------------|-------------|---------------|-------------|
| L      | mm         | 250             | 250         | 250           | 300         |
|        | inch       | 9.8             | 9.8         | 9.8           | 11.8        |
| R      | mm         | 270             | 277         | 277           | 382         |
|        | inch       | 10.6            | 10.9        | 10.9          | 15.0        |
| h      | mm         | 95              | 95          | 79            | 123         |
|        | inch       | 3.7             | 3.7         | 3.1           | 4.8         |
| Weight | Kg         | 6.8             | 8.8         | 7.3           | 26.0        |
|        | lb.        | 15              | 19.4        | 16.1          | 57.3        |



### Flow Chart



### Operation



Hydraulic Command [1] is applied to the Control Chamber [2], through the Manual Selector [3]. This creates a superior closing force that moves the Diaphragm Assembly [4] to a closed position. Discharging pressure from the control chamber, by turning the manual selector, causes the line pressure acting on the lower side of the diaphragm assembly to move the Hydrometer to an open position, and measure the flow rate.

### Accuracy & Flow Data

| Size                             | Accuracy | DN<br>inch            | 80R<br>3R  | 80<br>3    |
|----------------------------------|----------|-----------------------|------------|------------|
| ISO 4064-1 Class                 |          |                       |            | B          |
| Q min<br>(Minimum flow)          | 5%       | m <sup>3</sup><br>gpm | 1.2<br>5.3 | 1.2<br>5.3 |
| Qn, ISO 4064-1<br>(Nominal flow) | 2%       | m <sup>3</sup><br>gpm | 17<br>75   | 40<br>176  |
| Qper=Q3<br>(Permanent flow)      | 2%       | m <sup>3</sup><br>gpm | 40<br>176  | 100<br>440 |

### Pulse Option

| Size               | One pulse per | Liter, Gallon |
|--------------------|---------------|---------------|
|                    |               | 1, 0.1        |
| 1 1/2"-3", DN40-80 |               | ■             |
|                    |               | ■             |

### Technical Data

#### End Connections:

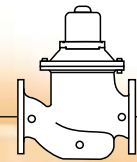
Threaded: 1 1/2, 2 & 3"R; DN40, 50 & 80R

Flanged: 3, DN80

**Pressure Rating:** 16 bar; 232 psi

**Minimum Operating Pressure:** 0.5 bar; 7 psi

For lower pressure requirements, consult factory



## BERMAD Hydrometer with Magnetic Drive, Pulse 0.1 m<sup>3</sup>

900/M0-R02

| Size |    | Connection     | Cat. No.                            |                |             |                          |
|------|----|----------------|-------------------------------------|----------------|-------------|--------------------------|
| Inch | mm |                |                                     | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 90015GIM0BP00000-0.1 m <sup>3</sup> | 1              | 7.20        | 0.0183                   |
| 2"   | 50 |                | 90002GIM0BP00000-0.1 m <sup>3</sup> | 1              | 8.60        | 0.0183                   |
| 3"R  | 80 |                | 9003RGIM0BP00000-0.1 m <sup>3</sup> | *              | *           | *                        |
| 3"   | 80 | Flanged ISO-16 | 90003GCM01600000-0.1 m <sup>3</sup> | *              | *           | *                        |



\* See page 28

## BERMAD 3-Way Solenoid Control Hydrometer with Magnetic Drive, Pulse 0.1 m<sup>3</sup>

910/M0-KX-R02

Solenoid S-390-3W-24V/AC

| Size |    | Connection     | Cat. No.                            |                |             |                          |
|------|----|----------------|-------------------------------------|----------------|-------------|--------------------------|
| Inch | mm |                |                                     | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 91015GIM0BP00008-0.1 m <sup>3</sup> | 1              | 7.40        | 0.0183                   |
| 2"   | 50 |                | 91002GIM0BP00008-0.1 m <sup>3</sup> | 1              | 8.80        | 0.0183                   |
| 3"R  | 80 |                | 9103RGIM0BP00008-0.1 m <sup>3</sup> | *              | *           | *                        |
| 3"   | 80 | Flanged ISO-16 | 91003GCM01600008-0.1 m <sup>3</sup> | *              | *           | *                        |



\* See page 28

## BERMAD 2-Way Solenoid Control Pressure Reducing Hydrometer with Magnetic Drive, Pulse 0.1 m<sup>3</sup>

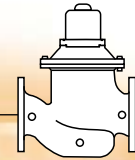
920/M0-55-2W-K-R02

Solenoid S-390-2W-24V/AC

| Size |    | Connection     | Cat. No.                               |                |             |                          |
|------|----|----------------|--|----------------|-------------|--------------------------|
| Inch | mm |                |  | Units per Case | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 92015GIM0BP55008-2W-0.1 m <sup>3</sup> | 1              | 7.70        | 0.0183                   |
| 2"   | 50 |                | 92002GIM0BP55008-2W-0.1 m <sup>3</sup> | 1              | 9.00        | 0.0183                   |
| 3"R  | 80 |                | 9203RGIM0BP55008-2W-0.1 m <sup>3</sup> | *              | *           | *                        |
| 3"   | 80 | Flanged ISO-16 | 92003GCM01655008-2W-0.1 m <sup>3</sup> | *              | *           | *                        |




\* See page 28



## BERMAD 2-Way Control Latching Solenoid Hydrometer with Magnetic Drive, Pulse 0.1 m<sup>3</sup>

910/M0-LS-2W-K-R02

Solenoid S-392 Latching, 6-20V/DC

| Size |    | Connection     | Cat. No.                                 |  |             |                          |
|------|----|----------------|--|---|-------------|--------------------------|
| Inch | mm |                |  | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 91015GIM0BP00008-S392-0.1 m <sup>3</sup> | 1   | 7.40        | 0.0183                   |
| 2"   | 50 |                | 91002GIM0BP00008-S392-0.1 m <sup>3</sup> | 1   | 8.80        | 0.0183                   |
| 3"R  | 80 |                | 9103RGIM0BP00008-S392-0.1 m <sup>3</sup> | *   | *           | *                        |
| 3"   | 80 | Flanged ISO-16 | 91003GCM01600008-S392-0.1 m <sup>3</sup> | *   | *           | *                        |




\* See page 28

## BERMAD 3-Way Control Latching Solenoid Hydrometer with Magnetic Drive, Pulse 0.1 m<sup>3</sup>

910/M0-LS-3W-K-R02

Solenoid S-982 Latching, I2-50V/DC

| Size |    | Connection     | Cat. No.                                 |  |             |                          |
|------|----|----------------|--|--|-------------|--------------------------|
| Inch | mm |                |  | Units per Case   | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 91015GIM0BP00008-S982-0.1 m <sup>3</sup> | 1  | 7.40        | 0.0183                   |
| 2"   | 50 |                | 91002GIM0BP00008-S982-0.1 m <sup>3</sup> | 1  | 8.80        | 0.0183                   |
| 3"R  | 80 |                | 9103RGIM0BP00008-S982-0.1 m <sup>3</sup> | *  | *           | *                        |
| 3"   | 80 | Flanged ISO-16 | 91003GCM01600008-S982-0.1 m <sup>3</sup> | *  | *           | *                        |




\* See page 28

## BERMAD 2-Way Latching Solenoid Control Pressure Reducing Hydrometer with Magnetic Drive, Pulse 0.1 m<sup>3</sup>

920/M0-55-LS-2W-K-R02

Solenoid S-392 Latching, 6-20V/DC

| Size |    | Connection     | Cat. No.                                |  |             |                          |
|------|----|----------------|---|---|-------------|--------------------------|
| Inch | mm |                |   | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1½"  | 40 | Threaded BSP   | 92015GIM0BP55008-S392-0.1m <sup>3</sup> | 1   | 7.70        | 0.0183                   |
| 2"   | 50 |                | 92002GIM0BP55008-S392-0.1m <sup>3</sup> | 1   | 9.00        | 0.0183                   |
| 3"R  | 80 |                | 9203RGIM0BP55008-S392-0.1m <sup>3</sup> | *   | *           | *                        |
| 3"   | 80 | Flanged ISO-16 | 92003GCM01655008-S392-0.1m <sup>3</sup> | *   | *           | *                        |



\* See page 28



## MT Series

Bermadon - Automatic Shut-Off Water Metering Valves, for use in small-scale automatic irrigation and refilling of small tanks.

The Bermadon automatically delivers a preset quantity of water, after which it shuts itself off. This original design saves water by actually metering flow rather than timing it.

### Features and Benefits

- No electricity required
- Simple design and high quality materials
- Maximum maintenance
- Extreme accuracy and dependability
- Easy installation and operation
- Metered water delivery during irrigation cycle unaffected by pressure fluctuations
- Can be installed in any position

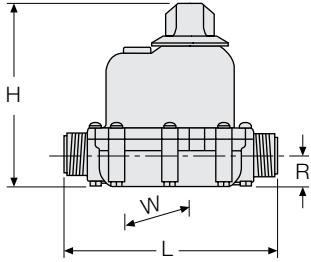


# BERMAD Landscape

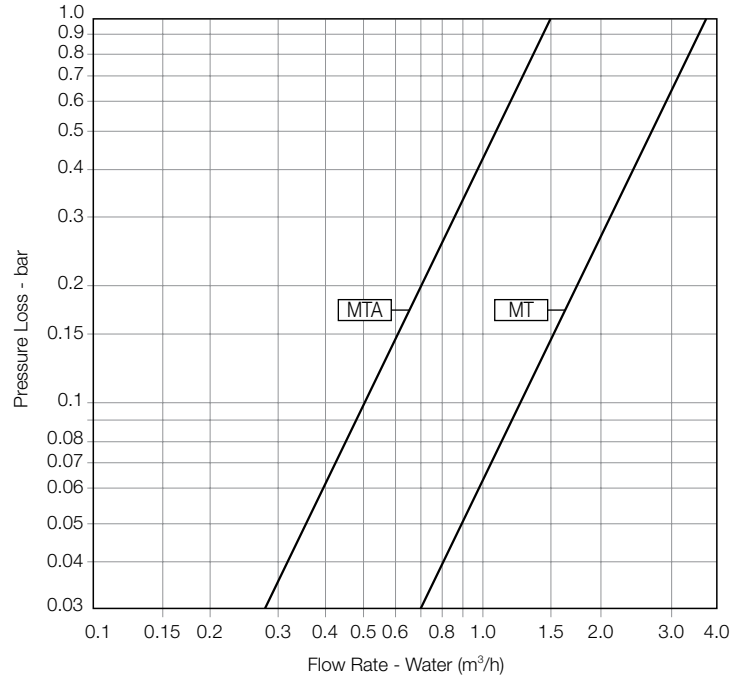
## MT Series - Technical Specifications

### Dimensions and Weights

| Size   | Inch | ¾"   | 1"   |
|--------|------|------|------|
| L      | mm   | 166  | 166  |
| H      | mm   | 145  | 145  |
| W      | mm   | 100  | 100  |
| R      | mm   | 25   | 25   |
| Weight | Kg   | 0.60 | 0.65 |



### Flow Chart



### Flow Rate and Dial Capacity

| Valve Category | Size |    | Nominal Flow Rate (m³/h) | Flow Rate (m³/h) |     | Dial Capacity | Graduation (liters) |
|----------------|------|----|--------------------------|------------------|-----|---------------|---------------------|
|                | ¾"   | 1" |                          | Min              | Max |               |                     |
| MT             | •    | •  | 3.0                      | 0.5              | 5.0 | 100 Liter     | 2.5                 |
|                |      |    |                          |                  |     | 1000 Liter    | 25                  |
|                |      |    |                          |                  |     | 2000 Liter    | 50                  |
|                |      |    |                          |                  |     | 4-m³          | 100                 |
|                |      |    |                          |                  |     | 10-m³         | 250                 |
|                |      |    |                          |                  |     | 20-m³         | 500                 |
|                |      |    |                          |                  |     | 50-m³         | 1000                |
| MTA            | •    | •  | 1.5                      | 0.1              | 2.0 | 50 Liter      | 1                   |
|                |      |    |                          |                  |     | 500 Liter     | 10                  |
|                |      |    |                          |                  |     | 2000 Liter    | 50                  |
|                |      |    |                          |                  |     | 4-m³          | 100                 |
|                |      |    |                          |                  |     | 8-m³          | 200                 |

### Technical Data

**Sizes:** ¾" & 1"

**End Connections:** Male Threads BSP or NPT

**Pressure Rating:** ISO: PN6 ANSI: Class 90

**Operating Pressure Range:** 0.7-6 bar (10-90 psi)

**Valve Category:** MT - Normal flow

MTA - Low flow

**Temperature Range:** Water up to 80°C (180°F)

**Accuracy of dosing:** 2% of the max scale valve plus 4% of the set volume.

Meets ISO 7714 Class 3 requirements

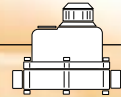
### 32 Materials:

**Base, Housing and Gear:** Plastic

**Shafts and Springs:** Stainless Steel


**Seals:** EPDM and NBR





## Automatic Metering Valves - Standard flow


Flow 0.5- 5.0 m<sup>3</sup>/h

| Dial Capacity     | Size |       | Cat. No.        |  |             |                          |
|-------------------|------|-------|-----------------|--|-------------|--------------------------|
|                   | Inch | mm    |                 | Units per Case   | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1000 Liter        | ¾"   | DIN20 | MT0071LIBP01000 | 12   | 8.90        | 0.0367                   |
|                   | 1"   | DIN25 | MT0011LIBP01000 | 12   | 8.90        | 0.0367                   |
| 2000 Liter        | ¾"   | DIN20 | MT0071LIBP02000 | 12   | 8.90        | 0.0367                   |
|                   | 1"   | DIN25 | MT0011LIBP02000 | 12   | 8.90        | 0.0367                   |
| 4 m <sup>3</sup>  | ¾"   | DIN20 | MT0071M3BP00004 | 12   | 8.90        | 0.0367                   |
|                   | 1"   | DIN25 | MT0011M3BP00004 | 12   | 8.90        | 0.0367                   |
| 10 m <sup>3</sup> | ¾"   | DIN20 | MT0071M3BP00010 | 12   | 8.90        | 0.0367                   |
|                   | 1"   | DIN25 | MT0011M3BP00010 | 12   | 8.90        | 0.0367                   |



## Automatic Metering Valves - Low Flow

Flow 0.1-2.0 m<sup>3</sup>/h

| Dial Capacity    | Size |       | Cat. No.        |  |             |                          |
|------------------|------|-------|-----------------|---|-------------|--------------------------|
|                  | Inch | mm    |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 50 Liter         | ¾"   | DIN20 | MTA071LIBP00050 | 12  | 8.90        | 0.0367                   |
|                  | 1"   | DIN25 | MTA011LIBP00050 | 12  | 8.90        | 0.0367                   |
| 500 Liter        | ¾"   | DIN20 | MTA071LIBP00500 | 12  | 8.90        | 0.0367                   |
|                  | 1"   | DIN25 | MTA011LIBP00500 | 12  | 8.90        | 0.0367                   |
| 2000 Liter       | ¾"   | DIN20 | MTA071LIBP02000 | 12  | 8.90        | 0.0367                   |
|                  | 1"   | DIN25 | MTA011LIBP02000 | 12  | 8.90        | 0.0367                   |
| 4 m <sup>3</sup> | ¾"   | DIN20 | MTA071M3BP00004 | 12  | 8.90        | 0.0367                   |
|                  | 1"   | DIN25 | MTA011M3BP00004 | 12  | 8.90        | 0.0367                   |
| 8 m <sup>3</sup> | ¾"   | DIN20 | MTA071M3BP00008 | 12  | 8.90        | 0.0367                   |
|                  | 1"   | DIN25 | MTA011M3BP00008 | 12  | 8.90        | 0.0367                   |





## AR Series

The exclusive AR Series products, manufactured from high quality plastics and metals, offer outstanding features and advantages:

- Perfect sealing under very low system pressure
- High flow capacity
- Patented operation together with smart design
- Simple, compact and reliable product

### Features and Benefits

- Only one or two moving parts, depending on model
- Corrosion resistant construction
- Pressure balanced float, free of distortion or collapse
- Special drip tight dynamic seal
- Exclusive kinetic design prevents floats from being blow shut
- Perfect sealing under system pressure as low as 0.1 bar

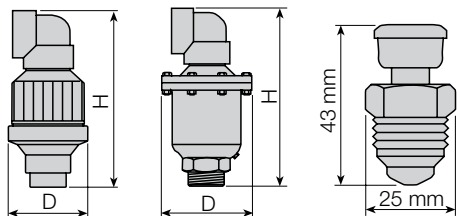


# BERMAD Landscape

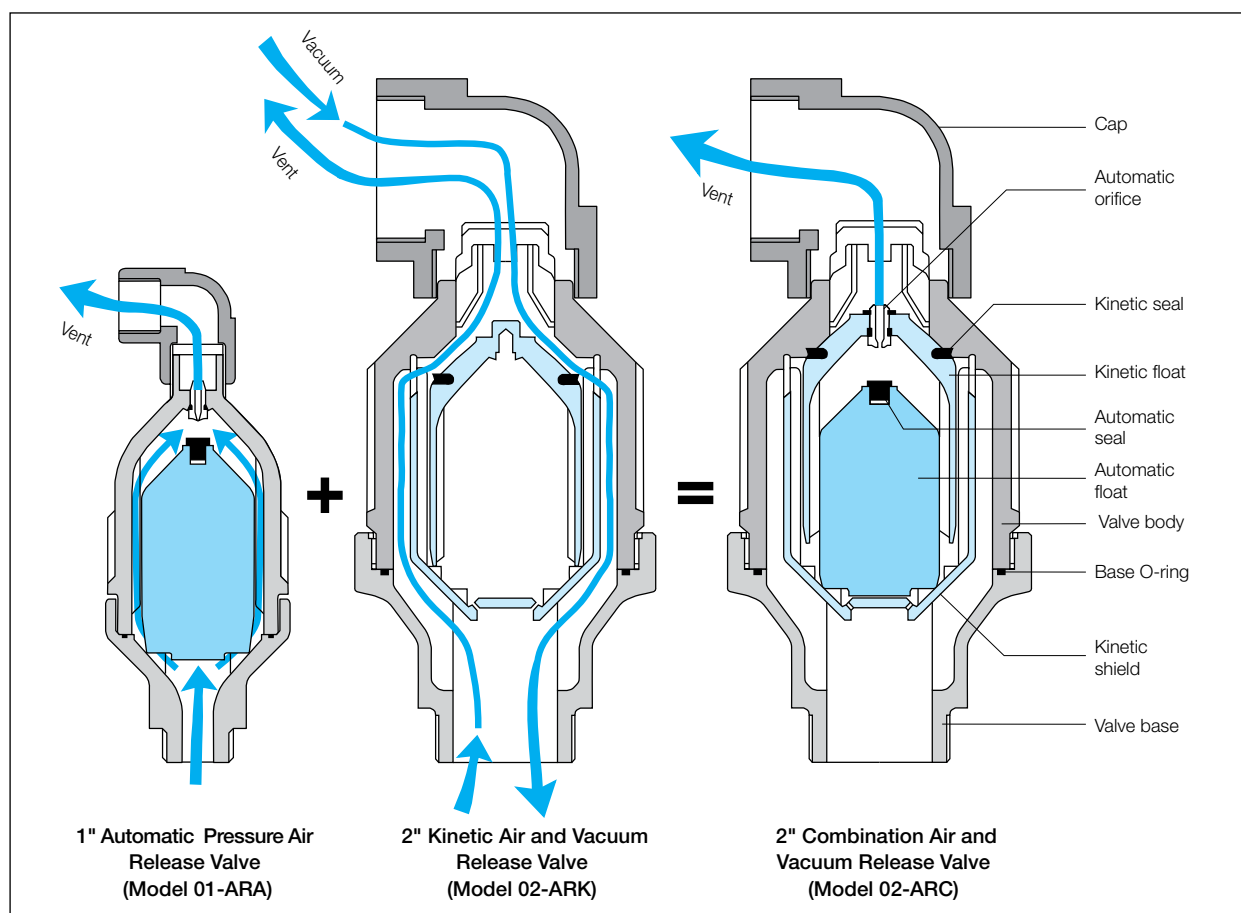
## AR Series - Technical Specifications

### Dimensions and Weights

| Valve Model          | Size | Plastic Body |        |             | Metallic Body |        |             |
|----------------------|------|--------------|--------|-------------|---------------|--------|-------------|
|                      |      | D (mm)       | H (mm) | Weight (mm) | D (mm)        | H (mm) | Weight (mm) |
| Combination (02-ARC) | 2"   | 130          | 245    | 2.8         | 150           | 290    | 5.5         |
| Kinetic (02-ARK)     | 2"   | 130          | 245    | 2.7         | 150           | 290    | 5.4         |
| Automatic (01-ARA)   | 1"   | 85           | 180    | 0.9         | 120           | 230    | 3.0         |
| Vacuum Breaker (ARV) | ½"   | 25           | 43     | 0.1         |               |        |             |



### Valve Assembly



### Technical Data

**Sizes:** 2", 1", ½"

**End Connection:** Threading BSP, NPT

**Pressure Rating:**

Plastic body models: ISO: PN 10

Cast iron models: ISO: PN 16; ANSI: # 125

**Operating Pressure Range:**

Plastic body: 0.1-10 bar (1½-150 psi)

Iron body: 0.1-16 bar (1½-225 psi)

**Temperature Range:** Water up to 80°C (180°F)

**Materials:**

**Body and Cover:** Plastic or Polyester-coated

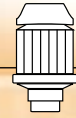
Cast Iron

**Floats and Kinetic Shield:** Plastic

**Automatic Orifice:** Stainless Steel


**Seals:** Buna-N and NR





## BERMAD Combination Air Release Valve


2"-ARC

| Size |    | Material | Cat. No.        |  |             |                          |
|------|----|----------|-----------------|---|-------------|--------------------------|
| Inch | mm |          |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 2"   | 50 | Plastic  | VRC02APIBP00000 | 2   | 6.00        | 0.0132                   |
| 2"   | 50 | Metal    | VRC02AI0BP00000 | 2   | 12.30       | 0.0132                   |



## BERMAD Kinetic Air Release Valve


2"-ARK

| Size |    | Material | Cat. No.        |  |             |                          |
|------|----|----------|-----------------|---|-------------|--------------------------|
| Inch | mm |          |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 2"   | 50 | Plastic  | VRK02APIBP00000 | 2   | 6.30        | 0.0132                   |
| 2"   | 50 | Metal    | VRK02AI0BP00000 | 2   | 12.30       | 0.0132                   |



## BERMAD Automatic Air Release Valve


1"-ARA

| Size |    | Material | Cat. No.        |  |             |                          |
|------|----|----------|-----------------|---|-------------|--------------------------|
| Inch | mm |          |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1"   | 25 | Plastic  | VRA01APPBP00000 | 12  | 6.10        | 0.0183                   |
| 1"   | 25 | Metal    | VRA01AI0BP00000 | 3   | 9.20        | 0.0132                   |



## BERMAD Plastic Vacuum Breaker

1/2"-ARV

| Size |    | Material | Cat. No.        |  |             |                          |
|------|----|----------|-----------------|---|-------------|--------------------------|
| Inch | mm |          |                 | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| 1/2" | 12 | Plastic  | VRV050P0BP00000 | 100   | 1.00        | 0.0080                   |



Standard Configuration:

- All valves are pre-tested and ready for installation and start-up
- Pressure Rating: Plastic - 10 bar (145 psi), Metal - 16 bar (230 psi)



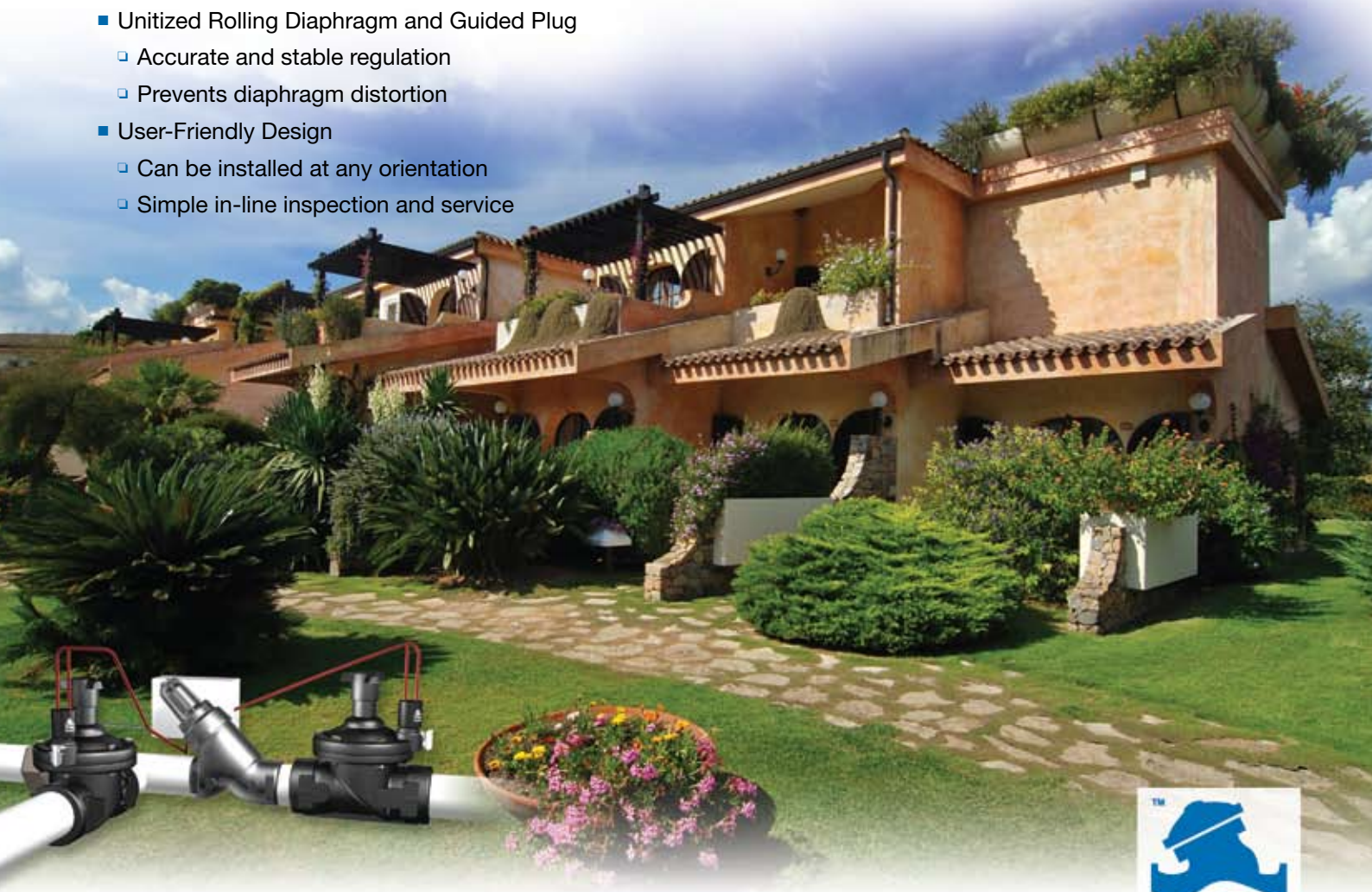
## PRV Series

The BERMAD Adjustable Direct Acting Pressure Reducer is actuated by a pressure responsive diaphragm, which seeks to reach equilibrium between hydraulic and set spring force. The BERMAD Model PRV is built of reinforced plastic that endows it with excellent hydraulic performance capabilities and high mechanical strength. It reduces higher upstream pressure to lower constant downstream pressure regardless of fluctuating demand or varying upstream pressure.



### Features and Benefits

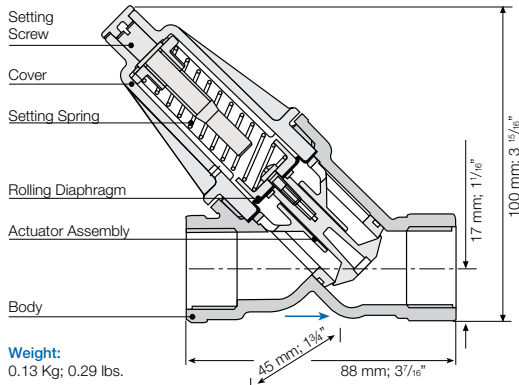
- Advanced Construction Materials
  - High mechanical strength
  - Proven pressure, flow and weather resistance
- Adjustable Direct Acting Pressure Reducer
  - Constant downstream pressure
  - Immediate response
  - Can be set per season and stage
- Plastic Body and Trim
  - Highly durable, chemical and cavitation resistant
  - Minimizes friction
- Unitized Rolling Diaphragm and Guided Plug
  - Accurate and stable regulation
  - Prevents diaphragm distortion
- User-Friendly Design
  - Can be installed at any orientation
  - Simple in-line inspection and service



# BERMAD Landscape

## PRV Series - Technical Specifications

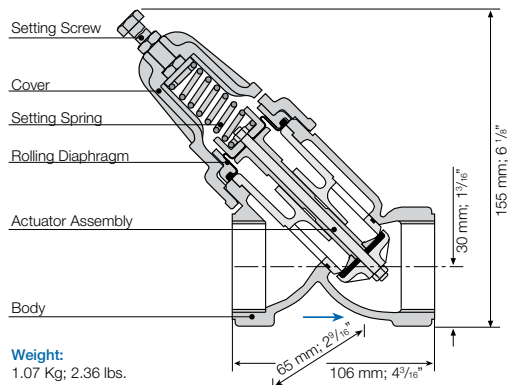
### 3/4"- PRV



### Technical Data

- Size:** 3/4"; DN20
- End Connections:** Threaded
- Inlet: Female BSP; NPT
- Outlet: Female BSP; NPT or Male BSPT; NPT
- Flow Range:** 0.2-5 m<sup>3</sup>/h; 0.9-22 gpm
- Pressure Ratings:** 10 bar; 150 psi
- Operating Pressure Range:** 0.7-9 bar; 10-130 psi
- Temperature:** Water up to 50°C; 122°F
- Materials:**
- Body, Cover and Actuator Assembly:** Glass-Filled Nylon
- Diaphragm:** NBR (Buna-N), Reinforced Nylon Fabric
- Spring:** Stainless Steel

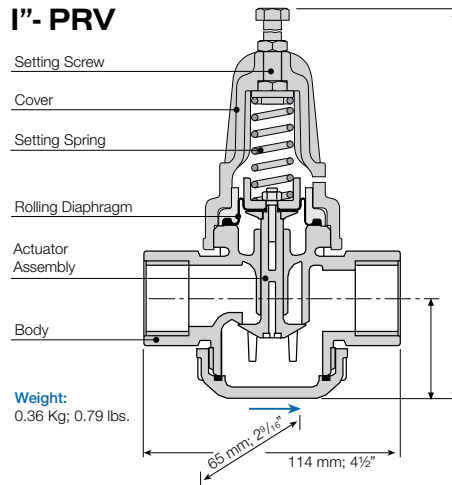
### 1 1/2"- PRV



### Technical Data

- Size:** 1 1/2"; DN40
- End Connections:** Female Threads BSP; NPT
- Flow Range:** 0.45-18 m<sup>3</sup>/h; 2-80 gpm
- Pressure Ratings:** 10 bar; 150 psi
- Operating Pressure Range:** 0.7-9 bar; 10-130 psi
- Temperature:** Water up to 50°C; 122°F
- Materials:**
- Body:** Brass
- Cover and Actuator Assembly:** Glass-Filled Nylon
- Diaphragm:** NBR (Buna-N), Reinforced Nylon Fabric
- Spring:** Stainless Steel

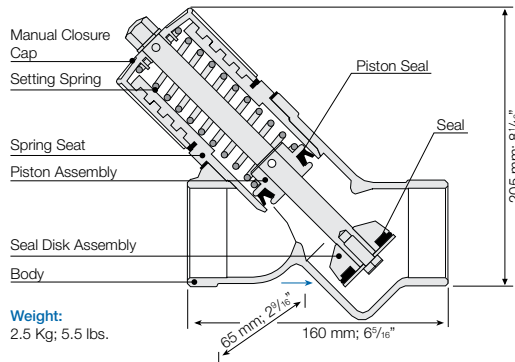
### 1"- PRV



### Technical Data

- Size:** 1"; DN25
- End Connections:** Female Threads BSP; NPT
- Flow Range:** 0.1-7 m<sup>3</sup>/h; 0.4-31 gpm
- Pressure Ratings:** 10 bar; 150 psi
- Operating Pressure Range:** 0.7-9 bar; 10-130 psi
- Temperature:** Water up to 50°C; 122°F
- Materials:**
- Body, Cover and Actuator Assembly:** Glass-Filled Nylon
- Diaphragm:** NBR (Buna-N), Reinforced Nylon Fabric
- Spring:** Stainless Steel

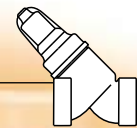
### 2"- PRV



### Technical Data

- Size:** 2"; DN50
- End Connections:** Female Threads BSP; NPT
- Flow Range:** 4-25 m<sup>3</sup>/h; 18-110 gpm
- Pressure Ratings:** 10 bar; 150 psi
- Operating Pressure Range:** 2-8 bar; 30-115 psi
- Temperature:** Water up to 50°C; 122°F
- Materials:**
- Body:** Brass
- Manual Closure Cup and Spring Seat:** Polyacetal
- Internals:** Stainless Steel and Nitril
- Piston Seal:** NBR (Buna-N), Reinforced Nylon Fabric
- Spring:** Stainless Steel






## BERMAD Adjustable Direct Acting Pressure Reducer

Threaded Male - Female, Female - Female

3/4" - 20mm - PRV

FLOW - 0.2-5.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |        |                                |                                |  |             |                          |
|-----------------|------------------------|--------|--------------------------------|--------------------------------|---|-------------|--------------------------|
|                 | Spring                 | Color  | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| PRV07FP0BP0000A | A                      | Yellow | 0.5 - 1.2                      | 7 - 17                         | 100   | 12.75       | 0.0367                   |
| PRV07FP0BP0000B | B                      | White  | 0.8 - 2.5                      | 12 - 35                        | 100   | 12.75       | 0.0367                   |
| PRV07FP0BP0000C | C                      | Red    | 2.0 - 4.0                      | 30-60                          | 100   | 12.75       | 0.0367                   |
| PRV07FP0BP0000D | D                      | Black  | 3.5 - 6.0                      | 50-80                          | 100   | 12.75       | 0.0367                   |




## BERMAD Adjustable Direct Acting, Low Flow Pressure Reducer

Threaded Male - Female, Female - Female

3/4" - 20mm - PRV- 05

FLOW - 0.01 - 3.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |        |                                |                                |  |             |                          |
|-----------------|------------------------|--------|--------------------------------|--------------------------------|---|-------------|--------------------------|
|                 | Spring                 | Color  | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| PRV07FP0BP0500A | A                      | Yellow | 0.5 - 1.2                      | 7 - 17                         | 100   | 12.75       | 0.0367                   |
| PRV07FP0BP0500B | B                      | White  | 0.8 - 2.5                      | 12 - 35                        | 100   | 12.75       | 0.0367                   |
| PRV07FP0BP0500C | C                      | Red    | 2.0 - 4.0                      | 30-60                          | 100   | 12.75       | 0.0367                   |
| PRV07FP0BP0500D | D                      | Black  | 3.5 - 6.0                      | 50-80                          | 100   | 12.75       | 0.0367                   |




## BERMAD Adjustable Direct Acting Pressure Reducer

Threaded Female - Female

1" - 25mm - PRV

FLOW - 0.45 - 7.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |       |                                |                                |  |             |                          |
|-----------------|------------------------|-------|--------------------------------|--------------------------------|---|-------------|--------------------------|
|                 | Spring                 | Color | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| PRV01FP0BP0000B | B                      | White | 0.5 - 1.2                      | 7 - 17                         | 40  | 13.25       | 0.0367                   |
| PRV01FP0BP0000C | C                      | Red   | 1.0 - 2.0                      | 14 - 28                        | 40  | 13.25       | 0.0367                   |
| PRV01FP0BP0000D | D                      | Black | 1.5 - 3.5                      | 22 - 50                        | 40  | 13.25       | 0.0367                   |
| PRV01FP0BP0000Q | Q                      | Brown | 3.0 - 5.5                      | 45 - 80                        | 40  | 13.25       | 0.0367                   |




## BERMAD Adjustable, Direct Acting, Drip-Tight Sealing, Low Flow Pressure Reducer

Threaded Female - Female

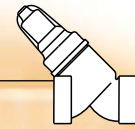
1" - 25mm - PRV - 07/05

FLOW - 0.1 - 7.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |       |                                |                                |  |             |                          |
|-----------------|------------------------|-------|--------------------------------|--------------------------------|---|-------------|--------------------------|
|                 | Spring                 | Color | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Units per Case  | Weight (kg) | Volume (m <sup>3</sup> ) |
| PRV01FP0BP0700A | B                      | White | 0.5 - 1.2                      | 7 - 17                         | 40  | 13.25       | 0.0367                   |
| PRV01FP0BP0700C | C                      | Red   | 1.0 - 2.0                      | 14 - 28                        | 40  | 13.25       | 0.0367                   |
| PRV01FP0BP0700D | D                      | Black | 1.5 - 3.5                      | 22 - 50                        | 40  | 13.25       | 0.0367                   |
| PRV01FP0BP0700Q | Q                      | Brown | 3.0 - 5.5                      | 45 - 80                        | 40  | 13.25       | 0.0367                   |







## BERMAD Adjustable Direct Acting, Drip-Tight Sealing Pressure Reducer with Flow Stem, Threaded Female - Female

1" - 25mm - PRV - 07 - M

FLOW - 0.1 - 7.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |       |                                |                                | Units per Case |                          |        |
|-----------------|------------------------|-------|--------------------------------|--------------------------------|----------------|--------------------------|--------|
|                 | Spring                 | Color | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Weight (kg)    | Volume (m <sup>3</sup> ) |        |
| PRV01FP0BP07M0B | B                      | White | 0.5 - 1.2                      | 7 - 17                         | 40             | 13.25                    | 0.0367 |
| PRV01FP0BP07M0C | C                      | Red   | 1.0 - 2.0                      | 14 - 28                        | 40             | 13.25                    | 0.0367 |
| PRV01FP0BP07M0D | D                      | Black | 1.5 - 3.5                      | 22 - 50                        | 40             | 13.25                    | 0.0367 |
| PRV01FP0BP07M0Q | Q                      | Brown | 3.0 - 5.5                      | 45 - 80                        | 40             | 13.25                    | 0.0367 |



## BERMAD Adjustable Direct Acting Pressure Reducer - PLASTIC, Threaded Female - Female

1 1/2" - 40mm - PRV - P

FLOW - 0.45 - 18.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |       |                                |                                | Units per Case |                          |        |
|-----------------|------------------------|-------|--------------------------------|--------------------------------|----------------|--------------------------|--------|
|                 | Spring                 | Color | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Weight (kg)    | Volume (m <sup>3</sup> ) |        |
| PRV15FP0BP0000B | B                      | White | 0.5 - 1.2                      | 7 - 17                         | 10             | 11.50                    | 0.0150 |
| PRV15FP0BP0000C | C                      | Red   | 1.0 - 2.0                      | 14 - 28                        | 10             | 11.50                    | 0.0150 |
| PRV15FP0BP0000D | D                      | Black | 1.5 - 3.5                      | 22 - 50                        | 10             | 11.50                    | 0.0150 |
| PRV15FP0BP0000Q | Q                      | Brown | 3.0 - 5.5                      | 45 - 80                        | 10             | 11.50                    | 0.0150 |



## BERMAD Adjustable Direct Acting Pressure Reducer - METAL, Threaded Female - Female

1 1/2" - 40mm - PRV - R

FLOW - 0.45 - 18.0 m<sup>3</sup>/h

| Cat. No.        | Spring Selection Table |       |                                |                                | Units per Case |                          |        |
|-----------------|------------------------|-------|--------------------------------|--------------------------------|----------------|--------------------------|--------|
|                 | Spring                 | Color | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Weight (kg)    | Volume (m <sup>3</sup> ) |        |
| PRV15FR0BP0000B | B                      | White | 0.5 - 1.2                      | 7 - 17                         | 10             | 11.50                    | 0.0150 |
| PRV15FR0BP0000C | C                      | Red   | 1.0 - 2.0                      | 14 - 28                        | 10             | 11.50                    | 0.0150 |
| PRV15FR0BP0000D | D                      | Black | 1.5 - 3.5                      | 22 - 50                        | 10             | 11.50                    | 0.0150 |
| PRV15FR0BP0000Q | Q                      | Brown | 3.0 - 5.5                      | 45 - 80                        | 10             | 11.50                    | 0.0150 |



## BERMAD Adjustable Direct Acting Pressure Reducer - METAL, Threaded Female - Female

2" - 50mm - PRV

FLOW - 4.0 - 25.0 m<sup>3</sup>/h

| Cat. No.   | Spring Selection Table |        |                                |                                | Units per Case |                          |      |
|------------|------------------------|--------|--------------------------------|--------------------------------|----------------|--------------------------|------|
|            | Spring                 | Color  | Downstream Pressure Range -bar | Downstream Pressure Range -PSI | Weight (kg)    | Volume (m <sup>3</sup> ) |      |
| 9901000011 | B                      | Red    | 2.0 - 2.6                      | 29-38                          | 1              | 2.8                      | 0.01 |
| 9901000008 | C                      | Yellow | 3.8 - 4.6                      | 55-67                          | 1              | 2.8                      | 0.01 |
| 9901000009 | D                      | Green  | 5.8 - 6.6                      | 84-96                          | 1              | 2.8                      | 0.01 |



### Standard Configuration:

- All valves are pre-tested and ready for installation and start-up
- Main Valve: 3/4" & 1" Plastic, 1 1/2": Plastic & Metal, 2" Metal
- Threaded Ends: NPT or BSP
- Standard Configuration Main Valve: 3/4" & 1" Plastic: 1 1/2" Plastic & Brass, 2" Metal

## S Series

BERMAD Continuous Current Solenoids are specially designed for reliable long life service in irrigation systems. They excel in their low power consumption and low sensitivity to dirt and voltage variations and are compliant with all Continuous Current Controllers on the market.

## Latching Solenoids Series

BERMAD Latching Solenoids are specially designed for reliable long life service in irrigation systems controlled by Battery Operated Controllers. The Latching Solenoids consume power only when switching positions, using a very short electric impulse. This prolongs life of batteries and enables solar recharging.



### S-390-2W

#### 2-Way Solenoid Actuator

| Actuator Type   | Cable Color | Power (Watt) | Current (Amp) |       | Coil Resistance<br>ohm@20°C; 68°F |
|-----------------|-------------|--------------|---------------|-------|-----------------------------------|
|                 |             |              | Inrush        | Hold  |                                   |
| S390-2W-24VAC-R | Red/Red     | 1.7          | 0.25          | 0.125 | 37.5                              |
| S390-2W-24VAC-D | Red/Orange  | 2.2          | 0.13          | 0.13  | *                                 |
| S390-2W-24VDC   | Black/Black | 3.6          | 0.18          | 0.18  | 156                               |
| S390-2W-12VDC   | Blue/Blue   | 4.0          | 0.33          | 0.33  | 36                                |

### S-390-3W

#### 3-Way Solenoid

| Actuator Type          | Cable Color | Power (Watt) | Current (Amp) |      | Coil Resistance<br>ohm@20°C; 68°F |
|------------------------|-------------|--------------|---------------|------|-----------------------------------|
|                        |             |              | Inrush        | Hold |                                   |
| S-390-3W-24VAC-D NO    | Red/Orange  | 2.2          | 0.13          | 0.13 | 37.5                              |
| S-390-3W-24VAC-D NC    | Orange/Blue | 3.5          | 0.20          | 0.20 | *                                 |
| S-390-3W-24VAC-R NO    | Red/Red     | 2.9          | 0.46          | 0.24 | 21                                |
| S-390-3W-24VDC NO & NC | Black/Black | 4.2          | 0.17          | 0.17 | 135                               |
| S-390-3W-12VDC NO & NC | Blue/Blue   | 4.0          | 0.33          | 0.33 | 36                                |

### S-392-2W

#### 2-Way Magnetic Latch Solenoid Actuator, 9VDC Latch, 2- Leads

##### Electrical Data:

Voltage Range: 6-20 VDC  
 Coil Resistance: 6Ω  
 Coil Inductance: 90 mH  
 Pulse Width: 20-100 mSec.

Required Capacitor: 4700μF

##### Operation Modes (electrical connections):

+Red & -Black: Latch Position  
 +Black & -Red: Released Position

### S-982-3W

#### 3-Way Dry Magnetic Latch Solenoid with Isolating Membrane & Hydraulic Base, 12VDC Latch, 2- Leads

##### Electrical Data:

Voltage Range: 12-50 VDC  
 Coil Resistance: 4.2Ω  
 Pulse Width: 20-100 mSec.  
 Required Capacitor: 4700μF

##### Operation Modes (electrical connections):

+ Red & - Black: Solenoid vents  
 + Black & - Red: Solenoid pressurizes

##### Pressure & Flow Data:

Operating Pressure Range: 0-10 bar

Base Orifice Diameter: 2.2 mm

##### Base Flow Factor:

Pressure port Kv = 0.12 m<sup>3</sup>/h @ 1 bar ΔP

Cv = 0.14 GPM @1 psi ΔP

Exhaust port Kv = 0.14 m<sup>3</sup>/h @ 1 bar ΔP

Cv = 0.16 GPM @1 psi ΔP

##### Connections:

1- Vent    2- Valve Control Chamber

3- Pressure





## BERMAD Continuous Current Solenoids 2-Way Solenoid Actuator

**S-390-2W**

| Voltage | Normal State | Inrush (Amp) | Holding (Amp) | Power (Watt) | Cat. No.         |
|---------|--------------|--------------|---------------|--------------|------------------|
| 24VAC   | N.C          | 0.25         | 0.125         | 1.70         | S3902WR2450NC00B |

AC



| Units per case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 100            | 11.2        | 0.016                    |

## 3-Way Solenoid With Plastic Base

**S-390-3W**

| Voltage | Normal State | Inrush (Amp) | Holding (Amp) | Power (Watt) | Cat. No.         |
|---------|--------------|--------------|---------------|--------------|------------------|
| 24VAC-D | N.O          | 0.13         | 0.13          | 2.20         | S3903WD24ACNOBOB |
| 24VAC-R | N.O          | 0.46         | 0.24          | 2.90         | S3903WR24ACNOBOB |
| 24VAC-D | N.C          | 0.20         | 0.20          | 3.50         | S3903WD24ACNCBCB |

AC



| Units per case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 50             | 7.66        | 0.016                    |

## BERMAD Latching Solenoids

### 2-Way Magnetic Latch Solenoid Actuator, 9V/DC Latch, 2-Leads

**S-392-2W**

| Voltage | Normal State | Min Pulse length (m <sup>Sec</sup> ) | Resistance (Ohm) | Cat. No.         |
|---------|--------------|--------------------------------------|------------------|------------------|
| 6-20    | N.O          | 20                                   | 6                | S3922W009DCNC00B |

DC



| Units per case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 50             | 6           | 0.016                    |

### 3-Way Dry Magnetic Latch Solenoid Actuator with Isolating Membrane & Hydraulic Plastic Base, 12V/DC Latch, 2-Leads

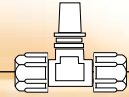
**S-982-3W**

| Voltage | Normal State | Min Pulse length (m <sup>Sec</sup> ) | Resistance (Ohm) | Cat. No.         |
|---------|--------------|--------------------------------------|------------------|------------------|
| 12-50   | N.O / N.C    | 20                                   | 4                | S9823W012DC00BBB |









DC



| Units per case | Weight (kg) | Volume (m <sup>3</sup> ) |
|----------------|-------------|--------------------------|
| 50             | 10.3        | 0.016                    |



## BERMAD Plastic Control Tube Fittings

|   | Model Code | Description                       | Item #     |
|---|------------|-----------------------------------|------------|
|    | FT 88      | STRAIGHT TUBE CONNECTOR 8mm - 8mm | 3656005600 |
|    | FT 18      | STRAIGHT CONNECTOR 1/8"-8mm       | 3608025600 |
|    | FT 28      | ELBOW CONNECTOR 1/8"-8mm          | 3608015600 |
|   | FT 58      | ELBOW CONNECTOR 1/4"-8mm          | 3604015600 |
|   | FT 38      | 1/8" NPT MALE PLUG                | 3608070000 |
|   | FT 34      | 1/4" NPT MALE PLUG                | 3604070000 |
|   | FT 32      | 3/8" NPT MALE PLUG                | 3638070200 |
|  | FT 11      | BUSHING MALE-FEMALE 1/8" -1/8"    | 3608050805 |
|   | FT 48      | BUSHING MALE-FEMALE 1/4"-1/8"     | 3604050805 |
|   | FT 98      | T-CONNECTOR FOR TUBE 8mm-8mm-8mm  | 360807T600 |
|   | FT 98/1    | T-CONNECTOR FOR TUBE 8mm-1/8"-8mm | 360807B600 |
|  | FT 08      | COUPLER FOR 8mm TUBE              | 3608025602 |

## **BERMAD Standard International Warranty**

BERMAD manufactured products are guaranteed to be free from defect in material and/or workmanship and to perform as advertised when properly installed, used and maintained in accordance with current instructions, written or verbal.

Should any item prove defective within the period set forth for that item, but in any case not later than within 12 (twelve) months from the time that product left BERMAD's premises, and shall be received by BERMAD or its authorized representative, or written notice thereof from the purchaser within 30 days of discovery of such failure – BERMAD will repair or replace any item proven defective in workmanship or material, or will refund the purchase price, at its sole option.

BERMAD will not be responsible for, nor does this warranty extend to, any consequential or incidental damages or expenses of any kind or nature, of any kind, regardless of the nature thereof, including without limitation injury to persons or property, loss of use of the products, loss of goodwill, loss of profits, or any other contingent liabilities of any kind or character alleged to be the cause of loss or damage to the purchaser.

This warranty does not cover damage or failure caused by misuse, abuse or negligence, nor shall it apply to our products upon which repairs or alternations have been made by other than an authorized BERMAD representative.

This warranty does not extend to components, parts or raw materials used by BERMAD but manufactured by others, which shall be covered only to the extent warranted by the manufacturer's warranty.

There are no warranties, express or implied, except this warranty, which is given in lieu of any other warranties, express or implied, including any implied warranty of fitness for a particular purpose.




# Ordering Guide

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