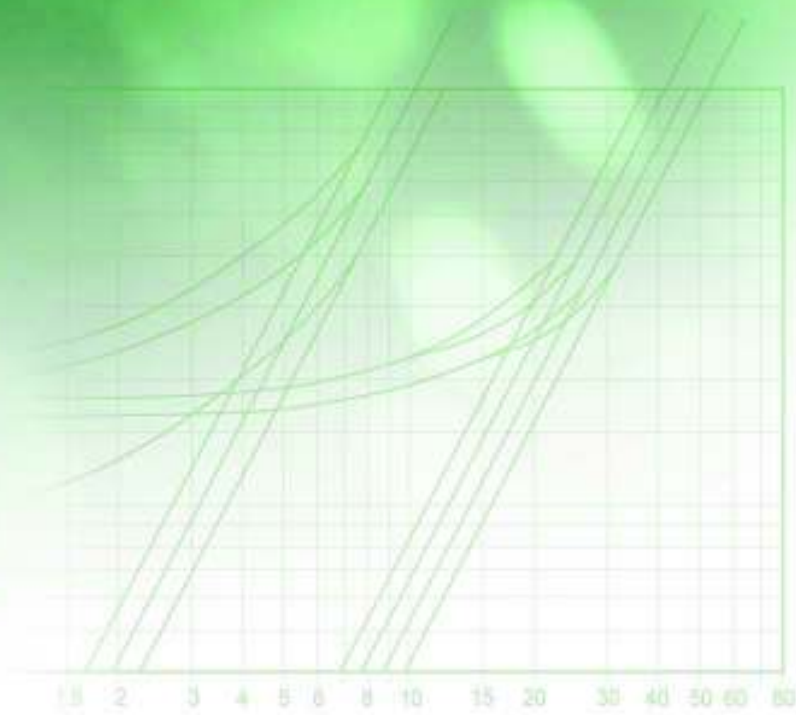
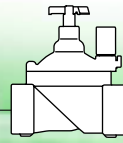


# Irrigation for Agriculture

## Engineering Data

### IR-200 Series





## Product Parts Features, Hydraulic Valve

### [1] **Fastening Bolts & Nuts**

6 Stainless Steel bolts and nuts (1 $\frac{1}{2}$ -2"; DN40-50 valves) fasten valve cover to body, ensuring quick in-line inspection and service.

### [2] **Valve Cover (Hydraulic Type)**

Simple and light construction enables quick in-line inspection and service.

[2.1] Flow Stem (Optional)

### [3] **Auxiliary Closing Spring**

One single spring fully meets valve requirements for operating pressure range, ensuring low opening pressure and secured closing.

### [4] **Seal Disk Assembly (Hydraulic Type)**

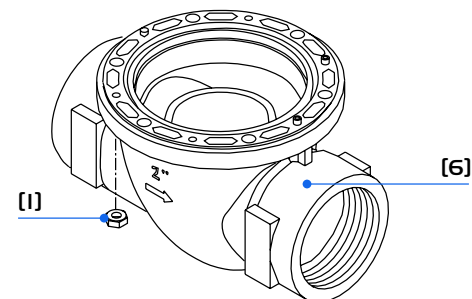
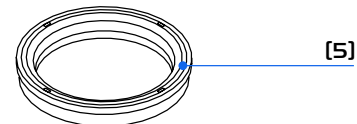
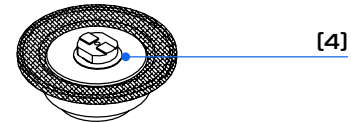
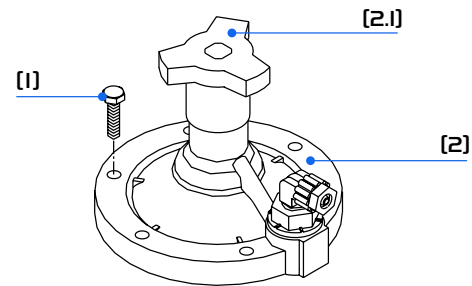
The seal disk assembly includes a flexible, carefully balanced, and peripherally supported diaphragm and a rugged guided plug with elastomeric sealing surface. This internal design enables:

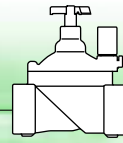
- High flow rate with low head loss
- Smooth valve opening and closing
- Accurate and stable regulation
- Low opening and actuation pressure
- No diaphragm erosion and distortion
- Same diaphragm and spring fully meet the valve's operating pressure range requirements

### [5] **Diaphragm Supporting Ring**

### [6] **Valve Body (Hydraulic Type)**

Glass-Filled Nylon to meet rough service conditions obtaining high chemical and cavitation resistance. Full bore seat with unobstructed flow path, free of any in-line ribs, supporting cage, or shafts.





## Product Parts Features, Electric Valve

### [1] Fastening Bolts & Nuts

6 Stainless Steel bolts and nuts (1 1/2-2"; DN40-50 valves) fasten valve cover to body, ensuring quick in-line inspection and service.

### [2] Valve Cover (Electric Type)

Simple and light construction enables quick in-line inspection and service.

[2.1] 2-Way Solenoid Actuator

[2.2] Manuale Override Handle

[2.3] Needle - Restricts inlet flow & eliminates internal restriction clogging.

[2.4] Flow Stem (optional)

### [3] Auxiliary Closing Spring

One single spring fully meets valve requirements for operating pressure range, ensuring low opening pressure and secured closing.

### [4] Seal Disk Assembly (Electric Type)

The seal disk assembly includes a flexible, carefully balanced, and peripherally supported diaphragm and a rugged guided plug with elastomeric sealing surface. This internal design enables:

- High flow rate with low head loss
- Smooth valve opening and closing
- Accurate and stable regulation
- Low opening and actuation pressure
- No diaphragm erosion and distortion
- Same diaphragm and spring fully meet the valve's operating pressure range requirements

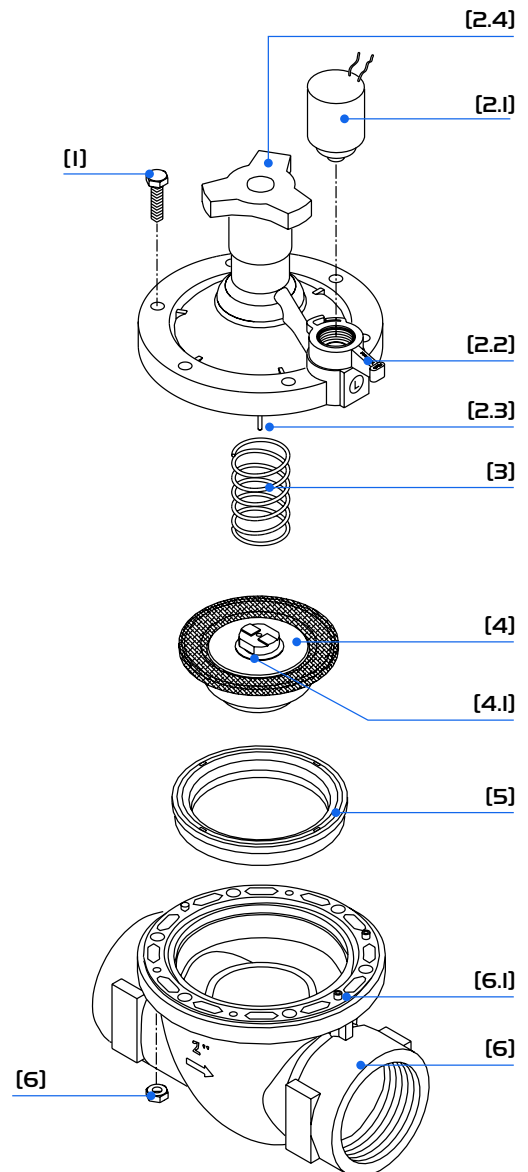
[4.1] Internal Restriction

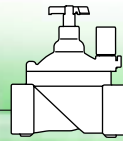
### [5] Diaphragm Supporting Ring

### [6] Valve Body (Electric Type)

Glass-Filled Nylon to meet rough service conditions obtaining high chemical and cavitation resistance. Full bore seat with unobstructed flow path, free of any in-line ribs, supporting cage, or shafts.

[6.1] Internal Control Circuit Outlet

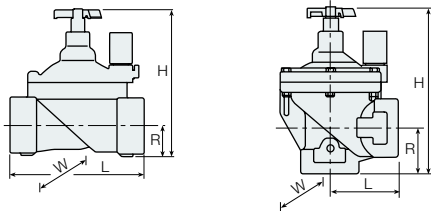




## Technical Data



### Dimensions & Weights



Pattern Size	Globe				Angle	
	DN20	DN25	DN40	DN50	DN40	DN50
L (mm)	110	110	160	170	80	85
H (mm)	115	115	180	190	190	210
R (mm)	22	22	35	38	40	60
W (mm)	78	78	125	125	125	125
Weight*(kg)	0.35	0.33	1.0	1.1	0.95	0.91
CCDV** (lit)	0.015	0.015	0.072	0.072	0.072	0.072

\* Without flow control handle

\*\*Control Chamber Displacement Volume (liter)

### Technical Specifications

#### Available Patterns & Sizes:

Globe: DN: 20, 25, 40 & 50

Angle: DN: 40 & 50

#### Available End Connections:

BSP-T; NPT female threads

Pressure Rating: 10 bar

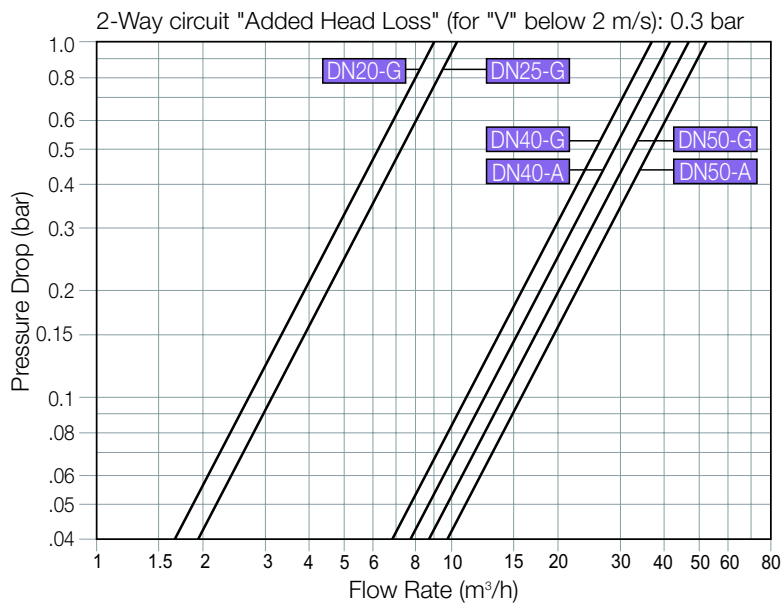
Operating Pressure Range: 0.7-10 bar

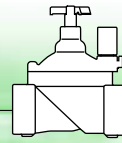
Temperature: Water up to 60°C

#### Standard Materials:

- Body & Cover: Nylon Reinforced
- Metal Parts: Stainless Steel
- Diaphragm: Natural Rubber
- Seals: NBR [Buna-N]
- Spring: Stainless Steel
- Cover bolts: Stainless Steel

### Flow Chart

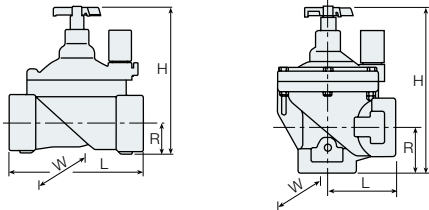




## Technical Data



### Dimensions & Weights



Pattern Size	Globe				Angle	
	1/2"	1"	1 1/2"	2"	1 1/2"	2"
L (inch)	45/16	45/16	65/16	611/16	33/16	33/8
H (inch)	4 1/2	4 1/2	7 1/8	7 1/2	7 1/2	8 1/4
R (inch)	7/8	7/8	1 3/8	1 1/2	1 9/16	2 3/8
W (inch)	31/16	31/16	4 15/16	4 15/16	4 5/16	4 15/16
Weight** (lb)	0.77	0.73	2.2	2.4	2.1	2.0
CCDV** (gal)	0.004	0.004	0.02	0.02	0.02	0.02

\* Without flow control handle

\*\*Control Chamber Displacement Volume (gallons)

### Technical Specifications

#### Available Patterns & Sizes:

Globe: 3/4", 1", 1 1/2", 2"

Angle: 1 1/2", 2"

#### Available End Connections:

BSP-T; NPT female threads

Pressure Rating: 150 psi

Operating Pressure Range: 10-150 psi

Temperature: Water up to 140°F

#### Standard Materials:

- Body & Cover: Nylon Reinforced
- Metal Parts: Stainless Steel
- Diaphragm: Natural Rubber
- Seals: NBR [Buna-N]
- Spring: Stainless Steel
- Cover bolts: Stainless Steel

### Flow Chart

