

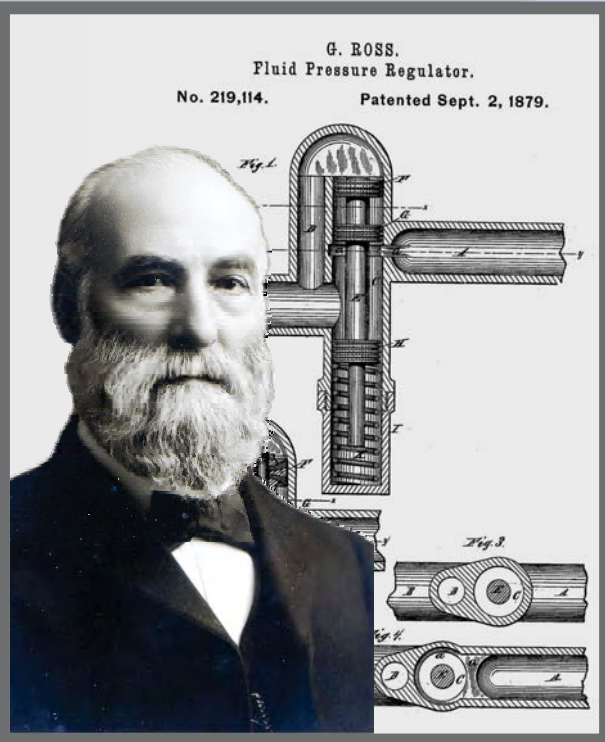
# ROSS 1879 VALVE



FULL LINE OF ENGINEERED VALVES

**PRODUCTS**  
[WWW.ROSSVALVE.COM](http://WWW.ROSSVALVE.COM)





## Company History

When George Ross founded our company in 1879, he made Automatic Control Valves that were designed to last. He also created a company built on enduring values and integrity of design and engineering, quality of American made materials, craftsmanship in manufacturing, a high level of customer service and flexible business plans that have evolved with changes in technology and the industries we serve.

Still located in Troy New York, Ross Valve has grown to become an internationally renowned manufacturer and problem solver. We have expanded to the Ross Technology Park a 15 acre facility allowing us to better grow and meet the needs of our customers. As a 6th generation family owned and operated business, there is an intense commitment to assure everything we do is of the highest quality and meets the expectations of our customers.

## Our Customers

Ross Valve continues to grow its comprehensive product line to serve the following industries throughout the world:

- ☞ Municipal Water & Wastewater
- ☞ Hydro Electric Power
- ☞ District Heating & Cooling
- ☞ Fire Fighting
- ☞ Industrial
- ☞ Mining & Extreme Conditions
- ☞ Flood Control

## Ross Valves Last Longer

Our hand-crafted valves and designed with features that differentiate us from the all other control valve manufactures, and our quality standards ensure that a properly maintained Ross Valve is often an investment that will last a lifetime. To provide assistance through the decades of use, the following services are a standard part of every Ross Valve purchase:

- ☞ We will maintain a detailed record of the individual valve's construction, setting and service history.
- ☞ Dedicated factory-trained service technicians for on-site start-ups and complete service.
- ☞ A preventative maintenance schedule tailored to your specific valve can be provided.

**100% Made in Troy New York USA**



# THE MOST TRUSTED NAME IN ENGINEERED VALVES SINCE 1879

## APPLICATIONS

- PRESSURE REDUCING
- LEVEL CONTROL
- PUMP CONTROL
- BACK PRESSURE
- SURGE ANTICIPATING
- FLOW CONTROL
- CHECK VALVES
- ANTI CAVITATION
- STRAINERS
- ON - OFF VALVES
- BALL VALVES
- ROTARY CONE
- FIXED CONE
- HDPE SLIDE GATES
- HDPE FLAP GATES
- PRE ENGINEERED VAULTS

Ross Valve can simulate your operating conditions to select the appropriate control valve for any application. We will recommend the optimum operating conditions in order to increase the overall system performance and lifetime of the system. Ross Valve's 135 years of experience, quality, innovation and dedication to customer service makes us the most trusted name in engineered valves.

(1) Velocity Magnitude - ft/s

97.5375
95.4724
90.4204
85.3453
81.2813
77.2172
73.1531
69.0891
65.025
60.9609
56.8969
52.8328
48.7687
44.7047
40.6406
36.5766
32.5125
28.4484
24.3844
20.3203
16.2563
12.1923
8.1283
4.0643
0

Frame: 1/100  
Load case: 638  
Last Iteration/Step

All Ross Valves comply with  
**Reduction of Lead in Drinking Water Act**

GET THE LEAD OUT!

for more info call  
**1-855-ROSS-VALVE**

All wetted surfaces of all our products for use in a potable water system contain less than 0.25% of lead by weight by law. Ross Valve has been manufacturing products this way since 2007.



# ROSS VALVE



## **PRESSURE REDUCING 1/2" – 60"**

40WR	Pilot Operated – Throttling
23WR	Pilot Operated – Throttling
98EP	Direct Acting – Throttling
21T - 28T	Direct Acting – Throttling
30T	Direct Acting – Throttling
20WR-PRV	Hydrant Pressure Reducing - Throttling

## **PUMP CONTROL 4" – 60"**

42WRS	Pump Control – Non-Throttling or Throttling
45WR	Deep Well Pump Control – Non-Throttling
70SWR-S-CE	Electric Actuated Pump Control

## **ELECTRIC 1" – 60"**

42WR	On-Off – Non-Throttling
3902	On-Off – Non-Throttling
42AFCV	Solenoid Controlled – Throttling
70SWR-ELA	Actuated – Non-Throttling or Throttling

## **FLOW CONTROL 1" – 60"**

40RF	Pilot Operated – Throttling
23RF	Pilot Operated – Throttling

## **LEVEL CONTROL 1" - 60"**

30AWR	Single Acting – Non-Throttling
40DAWR	Double Acting – Non-Throttling
40AWR	Single Acting – Throttling
50FWR	Electric – Non-Throttling

## **FLOAT 1/2" – 60"**

20F	Lever Operated – Direct Acting
21F	Lever Operated – Direct Acting
21F "Special"	Internal Pilot Operated – Throttling
45FWR	Pilot Operated – Semi-Throttling
45FWR-M	Pilot Operated – Modulating

## **CHECK VALVES 2" – 60"**

42 WR-S	Electric Check
43WR	Hydraulic Check

## **DIFFERENTIAL PRESSURE CONTROL 1/2 - 60"**

40DP	Pilot Operated DPCV
23DP	Pilot Operated DPCV

## **STRAINERS 1/2" – 60"**

10B	Basket Strainer
10C	Basket Strainer
5F2	Cartridge Strainer

## **ELECTRICAL FEATURES**

MC2001F	Flow Control Panel (Computer Based)
MC2001L	Level Control Panel (Computer Based)
MC2001P	Pump Control Panel (Computer Based)
MC2001PT	Pressure Control Panel (Computer Based)
MC2001S	Surge Control Panel (Computer Based)
MC2001VP	Valve Position Control Panel (Computer Based)

### **NOTES**

- Unless listed under the "Common Customized Features", the standard features on valve sizes 4" - 48" include isolation valves, speed control valve, external strainer, and rigid 1/2" brass piping (which, unlike tubing, is not easily subject to bending or fouling).
- Most models are available with either Globe, Globe Top Differential Cylinder, or Angle Body construction in ANSI and PN Standards.

## **MOV MULTI ORIFICE VALVE 4" – 90"**

MG	Manual Gear
OHC	Oil Hydraulic Cylinder Actuator
EA	Electric Actuator
WHC	Water Hydraulic Cylinder Actuator

## **ROTARY CONE VALVES 6" - 60"**

OHC	Oil Hydraulic Cylinder Actuator
EA	Electric Actuator
WHC	Water Hydraulic Cylinder Actuator

## **FIXED CONE VALVES 12" - 168"**

MG	Manual Gear
OHC	Oil Hydraulic Cylinder Actuator
EA	Electric Actuator

## **BALL VALVES 6" – 60"**

BLV	AWWA Metal Seated Ball Valve
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## **WASTEWATER VALVES 2' – 60"**

70SWR	Relief - Throttling
70SWR-E	Surge Control (Hydraulic)
70SWR-S	Pump Control – Non-Throttling or Throttling
70SWR-ELA	Actuated – Non-Throttling or Throttling

## **BACK PRESSURE SUSTAINING / RELIEF / SURGE CONTROL 1" – 60"**

50RWR	Back Pressure Sustaining – Throttling
50RWR	Relief – Throttling
50RWR-A	Surge Anticipating
23RWR	Back Pressure Sustaining/Relief – Throttling
20WR	Back Pressure Sustaining/Relief – Throttling
20WR-H	Hydrant Relief – Throttling

## **DIAPHRAGM VALVES**

All pilot and solenoid operated valves are available in diaphragm body styles.

## **ANTI FLOOD SAFETY VALVES 2" – 60"**

37WR Series

## **HDPE SLIDE GATE up to 72" Custom Sizes**

70 HSG Series

## **HDPE FLAP GATE 2" - 89" Custom Sizes**

70 HFV Series

## **PREPACKAGED VALVE & METER VAULTS**

Complete engineered valve, meter or pump station vault

## **CUSTOMIZED FEATURES**

A	Surge Control (Hydraulic)
ACAV	Anticavitation Trim
BP	Back Pressure Sustaining Pilot
CE	Check Feature, External
CI	Check Feature, Internal
D	Delayed Opening Feature: Second Altitude Pilot
E	Surge Control (Electric)
ES	Higher Efficiency Strainer
LD	Low Differential
N	Speed Control Valve
R	Reverse Flow Feature
RF	Rate of Flow Pilot

## Technical Resources:

- ☞ Finite Element Analysis ( FEA )
- ☞ Computational Fluid Dynamics ( CFD )
- ☞ Pattern Shop & 2 Foundries
- ☞ Machine Shops & CNC Centers
- ☞ HydroTest Facilities
- ☞ Pre-Packaged Vault Design / Build Center
- ☞ Factory Trained Service Team
- ☞ Electrical Shop for Control Panels



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Find us on all social networks



# ROSS

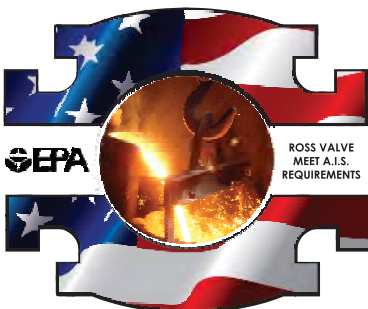
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All Ross Valves meet or exceed current requirements for AWWA, ANSI, PN, American Iron and Steel and Lead Free In Drinking Water Act.



GEN 2016 5000



Ross Valve manufactures all its products in Troy, NY. Our corporate headquarters are now located in the newly expanded RossTech Park.