

# **Model KN Series**

Internally Piloted Industrial Solenoid Valve



#### Description

The KN Series internally piloted liquid control valve offers the same dependable performance, quality, and value you've come to expect in a Kingston valves. Superior durability and versatility in a wide range of industrial liquid control applications continues to make Kingston your first choice in industrial valves.

Model	Inlet Size	Outlet Size	Dimensi Height (A)	ons (inches) Width (B)	Pressure Range (PSIG)	Approx. Shipping Wt
KN	3/4" NPT	3/4" NPT	5"	3-1/4"	20-200	2 lb.
	1" NPT	1" NPT	4-1/2"	4-3/8"		5.76 lb.
	1-1/4" NP	1-1/4" NPT	5-1/2"	5"		5 lb.
	1-1/2" NP	1-1/2" NPT	8"	6"		7.5 lb.
	2" NPT	2" NPT	9"	7"		9.5 lb.
	2-1/2" NP	2-1/2" NPT	10"	11-5/8"		32 lb.
	3" NPT	3" NPT				30 lb.

#### Features

# **High Performance Flow Characteristics**

The Kingston KN Series Solenoid Control Valves produce exceptional flow rate performance. With a low pressure loss profile, its flow characteristics allow for additional capacity to move downstream and increase energy efficiency by easing the stress on system pumps.

#### **Reverse Flow/Fail Closed Feature**

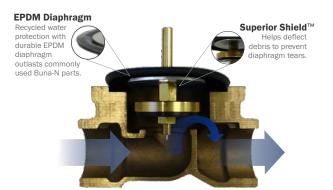
The Kingston KN Series Solenoid Control Valves are offered in both forward (fail open) and reverse (fail closed) flows. This feature allows designers to build in added safety and redundancy.

#### **Pressure Regulation**

The Kingston KN Series Solenoid Control Valves are offered with the PRS option allowing in-valve pressure control capability. With flow control and pressure regulator built in, designers and manufacturers can reduce overall system parts count and increase ease of maintenance.

# **Diaphragm Reliability**

Advanced two-piece internal assembly offers diaphragm protection by shielding diaphragm from flow path.



#### **Debris Tolerance**

Advanced porting design with self-cleaning metering rod system ensures that only "clean" water enters the diaphragm chamber, protecting the diaphragm for longer life.



#### **Stop Water Hammer**

Stop hammering in its tracks. Kingston internally piloted diaphragm design creates a buffer that prevents the violent, potentially damaging vibrations often associated with direct acting solenoid valves.

# **NEMA 4X Solenoid**

NEMA 4X rated electrical components add the flexibility to design these multi-function valves into the most demanding industrial environments.

# **Normally Closed**



**Standard KN** 

Electric Diaphragm Valve



**DW Series** 

Electric Diaphragm Valve w/ Dirty Water Feature



**DWIB Series** 

Electric Diaphragm Valve DW w/ Internal Bleed Features



**PRS Series** 

Electric Diaphragm Valve DWIB w/ Pressure Reg. System

#### **Reverse Flow**



**RF Series** 

Electric Diaphragm Valve Reverse Flow/Fail Closed Feature (1 to 2" Only)



**PRSRF Series** 

Electric Diaphragm Valve DWIB w/ Pressure Reg. System Reverse Flow/Fail Closed Feature (1 t0 2" Only)

# **Reclaimed Water**



KN 1000

Electric Diaphragm Valve DWIB w/ HCR<sup>™</sup> Premium Diaphragm Copper Tubing & Purple Cross Handle

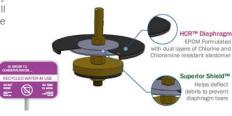


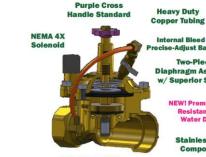
#### **Recycled Water Features**

The Kingston KN1000 Valve is manufactured with top-quality components, including heavy duty cooper tubing, precision ball valve adjustment, dirty water filter system, and two-piece diaphragm assembly with SuperiorShield™

## **Premium Diaphragm Durability**

The KN1000 Valve is equipped with a two-piece diaphragm assembly, including a specially-designed HCR™ Diaphragm formulated to outlast the harshest of chemicals typically found in recycled water systems.





**Dirty Water Filter** 

**Internal Bleed with** 

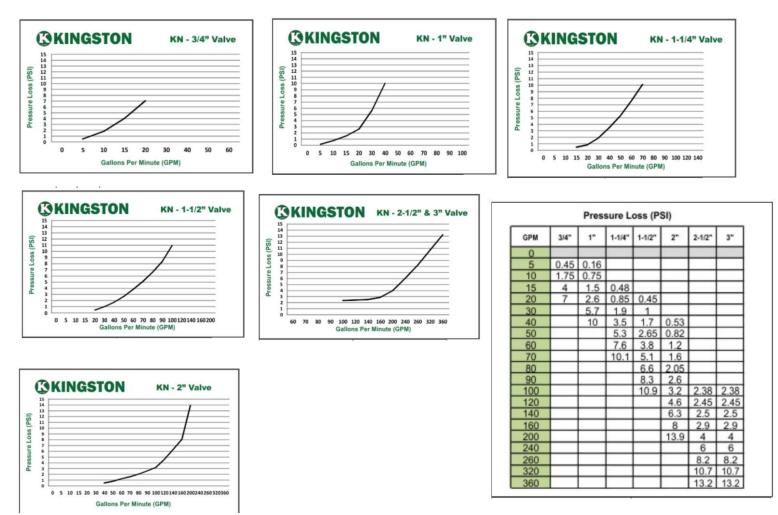
cise-Adjust Ball Valve Two-Piece

**Diaphragm Assembly** w/ Superior Shield"

> **NEW!** Premium Chemica Resistant Recycled Water Diaphragm

Stainless Steel Components

#### **Flow Capacity Information**

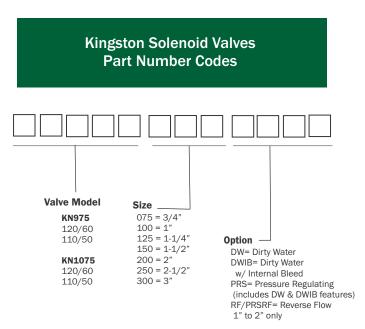


# **Expert Technical Support**

Knowledgeable technical support resource provides quick response times. No-charge customer service is available by calling 1-800-210-2525.



#### **Ordering Information**



#### **Product Notes**

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#### **NEMA 4X Solenoid Specifications**

NEMA 4X 110/120 VAC (KN975) In-rush current: 95 mA (10.5 VA) Holding current: 0.45 mA (7.2 VA)

#### **Operating Ranges**

Flow: 5 to 360 gpm Pressure: 20 to 150 psi Temperature: -20 to 200F

#### Notes

#### KN 1000 Valve

Premium reclaimed water valve includes DWIB, HCR Diaphragm and purple cross handle standard. No options to add **Reverse Flow** 

Standard RF includes DW option, RF available in PRS

#### **Reclaimed Water**

Handle options available for Reclaimed Water applications

# Est.1908

www.KingstonValves.com