

Automatic<sup>™</sup>  
Valve

# AUTOMATION SOLUTIONS



**ROSS<sup>™</sup>**  
a global family

## DIRECTIONAL CONTROL

**NAMUR  
ISO 5599  
In-line**

- » Cv up to 72
- » Internal or external pilot supply
- » Single or double solenoid pilot control
- » Manual override options
- » Cast Aluminum or 303 or 316 Stainless Steel construction material



## AIR PREPARATION

**Integrated  
Filter/Regulator**

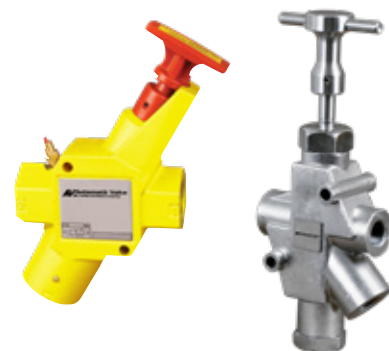
- » Filter and regulator consolidated one assembly
- » Port Size 1/8" to 3/4"
- » Flow up to 230 scfm
- » Modular or In-line mounting
- » High-strength polycarbonate bowl with zinc shatterguard, or metal bowl
- » 5-, 20-, 40-µm rated polyethylene filter element
- » Internal automatic or manual drain
- » Self-relieving or non-relieving piston-type regulator
- » Regulator adjusting knob removable for tamper resistance
- » With or without manual lockout L-O-X® valve option



## ENERGY ISOLATION

**Lockout Tagout  
(LOTO)**

- » Port Size 1/4" through 2"
- » Cv up to 40
- » Cast aluminum or 316 Stainless Steel construction material
- » Fluorocarbon slipper seals for easy shifting
- » Integrated sensing port for pressure verification
- » Lockable only in the OFF position
- » Has a full size exhaust port (equal to or larger than supply)
- » Simple push/pull of the large handle



## REDUNDANT CONTROL SYSTEMS







**Redundant  
Valve Manifold**

- » 1oo2, 2oo2, 2oo3, 3oo4
- » 1, 2, 3, or 4 input signals
- » Valves or input signals must be de-energized to close the output
- » Visual or electrical indication of valve failure
- » Individual valve isolation
- » Eliminates the need for a system bypass
- » Valves can be easily and safely replaced in service
- » Maintains redundancy
- » High & Low flow options available



# PROCESS SOLUTIONS

Solenoid pilot controlled valves are ideal for applications in a wide range of industries and environments. Our solenoid valves are standard specification within many world class International companies. Solenoid operators are interchangeable across the range of valve bodies to enhance flexibility. Automatic Valve designs and manufactures custom control systems for key process valve manufacturers and distributors.

Valve Series						
	In-line Spool	In-line Poppet	Direct Acting	ISO 5599-1	NAMUR Interface	Redundant Valve Manifold
Inlet Port Size	1/8" – 1"	1/4" – 2-1/2"	1/8", 1/4"	1/4" – 1/2"	1/4"	1/8" – 1/2"
Function	3/2, 5/2, 5/3	2/2, 3/2, 4/2	2/2, 3/2	5/2, 5/3	3/2, 5/2, 5/3	1002, 2002, 2003, 3004
Mounting	In-line	In-line	Base	Base	Direct	Base
Design	Spool	Poppet	Poppet	Spool	Spool	Spool
General Purpose	✓	✓	✓	✓	✓	✓
ATEX	✓	✓	✓	✓	✓	✓
IECEx	✓	–	✓	–	✓	✓
SIL	✓	✓	✓	–	✓	✓
CSA/UL approved	✓	✓	✓	✓	✓	–
FM approved	✓	✓	✓	✓	✓	–
CL. I, Div.1, Groups A, B, C, D	✓	✓	✓	–	–	–
CL. I, Div.2, Groups A, B, C, D	✓	✓	✓	–	–	–
CL. II, III, Div.1, Groups E, F, G	✓	✓	✓	–	–	–
CL. II, III, Div.2, Groups E, F, G	✓	✓	✓	–	–	–
CL. I, Zone1 ExmII T4; AExmII	✓	✓	✓	–	–	–
T4, Ta = -20C to +60C	✓	✓	✓	–	–	–
NEMA 4	✓	✓	✓	✓	✓	–
NEMA 4X	✓	✓	✓	✓	✓	–
NEMA 7	✓	–	–	✓	✓	–
NEMA 9	✓	–	–	✓	✓	–
Intrinsically Safe	✓	✓	✓	✓	✓	✓
Exia	✓	–	✓	✓	✓	✓
Exc	–	✓	–	–	–	–
Exd	✓	–	✓	–	✓	✓
Exm	✓	–	✓	✓	✓	✓
Exme	✓	–	✓	–	✓	✓
ExnA	✓	–	✓	–	✓	✓
Terminal Box (IP65)	✓	–	✓	–	✓	✓
Plug and Socket	✓	–	✓	–	✓	✓



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