



PRODUCT INFORMATION

NAMUR INTERFACE VALVES

95 & 34 SERIES



ROSS CONTROLS

NAMUR INTERFACE 95 SERIES VALVES - KEY FEATURES

- Compact in-line ported valve consisting 5/2-way with either solenoid pilot control
- 24 volts DC and 110 volts AC options for solenoid control
- Available port sizes 1/4"
- Resilient spool & sleeve construction
- High flow capacity
- Pressure ports located in valve body
- Manual override included
- Lube or non-lube service
- Fast response times

NAMUR INTERFACE 34 SERIES VALVES - KEY FEATURES

- "Duck-bill" protected exhaust port(s):
 - Limits wash down fluids from entering the valve
 - Minimizes the collection point for contamination
 - Corrosion resistant epoxy powder coat
- Solenoid Pilot Low wattage, fast shifting, repeatable, long life
- Patented Ball-poppet internals Near zero internal leakage for the life of the valve, self cleaning valve seats, sure shifting
- Faster and more precise operation than a spool valve
- 3/2 Normally Closed

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VALVE TYPE/SERIES		PORT SIZES	MAX. FLOW	Page		
	CONNECTION	1/4	Cv	. ago		
95 SERIES						
SOLENOID PILOT CONTROLLED with NAMUR INTERFACE						
5/2			1.3	D5.3		
34 SERIES						
SOLENOID PILOT CONTROLLED with NAMUR INTERFACE						
3/2, 52	M12, or EN 175301-803 Form A		0.25	D5.4		

Solenoid Pilot Controlled Valves 5-Way 2-Position Valves, Single Solenoid, Spring Return Valve Model Number# Port Size Avg. Weight 4 2 14 C_v lb (kg) 1, 3, 5 **NPT Threads** G Threads 1/4

5-Way 2-Position Valves, Double Solenoid, Detented Port Size Valve Model Number# Avg. Weight

95 Series

NAMUR Interface



Valve Dimensions - inches (mm)



FLOW CHART



ACCESSORIES & OPTIONS

Electrical Connectors			Silencers				1.1	
Connector	Port Model Num		lumber*	Participant - 1	Port Size Threads Mod		Model Number	(i)
Form	Size	24 Volts DC	110 Volts AC	ALL A	1/4	Male - NPT	5500A2003	
EN 175301-803 Form B	1/4	1767L77	1781L77	-	1/4	Male - G	D5500A2003	
*3-Pin Electrical Connectors with LED & Surge Suppressor								

For other options, consult ROSS.

Valves available with installed prewired connectors, please consult ROSS.

STANDARD SPECIFICATIONS (for valves on this page):					
Construction Design	Spool	Temperature	Ambient/Media: 41° to 140°F (5° to 60°C)		
Mounting Type	In-line	Flow Media	Filtered air		
Solenoids	AC or DC power; Rated for continuous duty	Pilot Supply	Internal		
Voltage	24 volts DC: 110 volts AC, 50/60 Hz	Operating Pressure	22.5 to 150 psig (1.5 to 10 bar)		
Power Consumption (each solenoid)	2.5 watts on DC; 5.5 VA holding on 50/60 Hz	Construction Material	Valve Body: Bar Stock Aluminum Spool: Stainless Steel		
Enclosure Rating	IP 65, IEC 60529		Seals: Buna-N		
Electrical Connection	EN 175301-803 Industrial Form B connector	Manual Override	Pushbutton, non-locking		

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

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Solenoid Pilot Controlled Valves

NAMUR Interface Washdown 34 Series

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BROWN

(Positive)

M 12 Connector Pin Out BLUE (Negative)

Normally Closed

Model shown with M12 electrical connector

Model shown with EN electrical connector

Normally

Closed

3-Way 2-Position Valves, Spring Return					
Electrical	Valve Model Number#*	Avg.	Mounting Bolts	Weight	2
M12	3473D1904W	0.25	10-32	0.8 (0.3)	
EN 175301-803 Form A	3473D1900W	0.25	10-32	0.8 (0.3)	3 1

Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., 3473D190Z. For other voltages, consult ROSS.
***Note:** 10-24 and M5 mounting fasteners available upon request.

5-Way 2-Position Valves, Spring Return					
Electrical	Valve Model Number#*	Avg.	Mounting	Weight	4 0
Connection	NPT Threads	Cv	Bolts	lb (kg)	
M12	3476C1904W	0.25	10-32	0.9 (0.4)	
EN 175301-803 Form A	3476C1900W	0.25	10-32	0.9 (0.4)	513

Voltage: W=24 VDC; Z=110-120 VAC, 50/60 Hz, e.g., 3476C1904Z. For other voltages, consult ROSS. *Note: 10-24 and M5 mounting fasteners available upon request.



STANDARD SPECIFICATIONS (for valves on this page):

Construction	Spool	Flow Media	Filtered air		
Mounting Type	In-line	Pilot Supply	Internal		
Solenoids	AC or DC power; Rated for continuous duty	Operating Pressure	29 to 116 psig (2 to 8 bar)		
Voltage	24 volts DC: 110-120 volts AC, 50/60 Hz		Valve Body: Bar Stock Aluminum		
Power Consumption (each solenoid)	0.7 watts on DC;	Construction Material	Spool: Stainless Steel Seals: Buna-N		
Enclosure Rating	IP 65, IEC 60529		a degree of protection to personnel against incidental contact with t		
Electrical Connection	EN 175301-803 Form A connector, or M12	Standard	enclosed equipment; and also provides protection in highly corrosiv		
	Ambient/Media: 4° to 122°F (-10° to 50°C)		environments.		
Temperature	For temperatures below $40^{\circ}F(4^{\circ}C)$ air must be free of water vapor to prevent formation of ice.				

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

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ROSS OPERATING VALVE, ROSS CONTROLS®, ROSS DECCO®, and AUTOMATIC VALVE INDUSTRIAL, collectively the "ROSS Group".

PRE-INSTALLATION or SERVICE

1. Before servicing a valve or other pneumatic component, be sure all sources of energy are turned off, the entire pneumatic system is shut down and exhausted, and all power sources are locked out (ref: OSHA 1910.147, EN 1037).

2. All ROSS Group Products, including service kits and parts, should be installed and/or serviced only by persons having training and experience with pneumatic equipment. Because any product can be tampered with and/or need servicing after installation, persons responsible for the safety of others or the care of equipment must check ROSS Group Products on a regular basis and perform all necessary maintenance to ensure safe operating conditions.

3. All applicable instructions should be read and complied with before using any fluid power system to prevent harm to persons or equipment. In addition, overhauled or serviced valves must be functionally tested prior to installation and use. If you have any questions, call your nearest ROSS Group location.

4. Each ROSS Group Product should be used within its specification limits. In addition, use only ROSS Group components to repair ROSS Group Products.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

FILTRATION and LUBRICATION

1. Dirt, scale, moisture, etc., are present in virtually every air system. Although some valves are more tolerant of these contaminants than others, best performance will be realized if a filter is installed to clean the air supply, thus preventing contaminants from interfering with the proper performance of the equipment. The ROSS Group recommends a filter with a 5-micron rating for normal applications.

2. All standard ROSS Group filters and lubricators with polycarbonate plastic bowls are designed for compressed air applications only. Use the metal bowl guard, where provided, to minimize danger from high pressure fragmentation in the event of bowl failure. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bowls to rupture, creating a combustible condition and hazardous leakage. Immediately replace crazed, cracked, or deteriorated bowls.

3. Only use lubricants which are compatible with materials used in the valves and other components in the system. Normally, compatible lubricants are petroleum base oils with oxidation inhibitors, an aniline

point between 180°F (82°C) and 220°F (104°C), and an ISO 32, or lighter, viscosity. Avoid oils with phosphate type additives which can harm polyurethane components, potentially leading to valve failure which risks personal injury, and/or damage to property.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

AVOID INTAKE/EXHAUST RESTRICTION

1. Do not restrict air flow in the supply line. To do so could reduce the pressure of the supply air below minimum requirements for the valve and thereby causing erratic action.

2. Do not restrict a valve's exhaust port as this can adversely affect its operation. Exhaust silencers must be resistant to clogging and must have flow capacities at least as great as the exhaust capacities of the valves. Contamination of the silencer can result in reduced flow and increased back pressure.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

SAFETY APPLICATIONS

1. Mechanical Power Presses and other potentially hazardous machinery using a pneumatically controlled clutch and brake mechanism must use a press control double valve with a monitoring device. A double valve without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All double valve installations involving hazardous applications should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.

2. Safety exhaust (dump) valves without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All safety exhaust valve installations should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.

3. Per specifications and regulations, the ROSS L-O-X[®] and L-O-X[®] with EEZ-ON[®], N06 and N16 Series operation products are defined as energy isolation devices, NOT AS EMERGENCY STOP DEVICES.

WARNINGS: Failure to follow these instructions can result in personal injury and/or property damage.

STANDARD WARRANTY

All products sold by the ROSS Group are warranted for a one-year period [with the exception of Filters, Regulators and Lubricators ("FRLs") which are warranted for a period of seven (7) years] from the date of purchase. All products are, during their respective warranty periods,

warranted to be free of defects in material and workmanship. The ROSS Group's obligation under this warranty is limited to repair, replacement or refund of the purchase price paid for products which the ROSS Group has determined, in its sole discretion, are defective. All warranties become void if a product has been subject to misuse, misapplication, improper maintenance, modification or tampering. Products for which warranty protection is sought must be returned to the ROSS Group freight prepaid.

THE WARRANTY EXPRESSED ABOVE IS IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES AND THE ROSS GROUP EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED WITH RESPECT TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE ROSS GROUP MAKES NO WARRANTY WITH RESPECT TO ITS PRODUCTS MEETING THE PROVISIONS OF ANY GOVERNMENTAL OCCUPATIONAL SAFETY AND/OR HEALTH LAWS OR REGULATIONS. IN NO EVENT IS THE ROSS GROUP LIABLE TO PURCHASER, USER, THEIR EMPLOYEES OR OTHERS FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM A BREACH OF THE WARRANTY DESCRIBED ABOVE OR THE USE OR MISUSE OF THE PRODUCTS. NO STATEMENT OF ANY REPRESENTATIVE OR EMPLOYEE OF THE ROSS GROUP MAY EXTEND THE LIABILITY OF THE ROSS GROUP AS SET FORTH HEREIN.



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