

## Series 3



## Physical Properties

**Valve Type:**

2-Way Normally Closed  
3-Way Configurations

**Media:**

Liquids and gases

**Operating Environment:**

40 to 150°F [4 to 66°C]

**Size:**

See Dimensions

**Porting:**

Barbs: 1/16", 1/8", 3/16"

**Weight:**

1.8 to 2.0 oz  
(Material and Configuration  
Dependent)

**Internal Volume:**

238  $\mu$ L (1/16" Barb Option)  
326  $\mu$ L (1/8" Barb Option)  
516  $\mu$ L (3/16" Barb Option)

## 2-Way and 3-Way Solenoid Valve

The Series 3 solenoid valve is suitable for both liquids and gases, including media such as bleach, for applications in clinical chemistry, blood chemistry, and ink jet printing. These two-way and three-way valves are rated for continuous duty and have low power consumption. Wetted parts for this series include non-corrosive plastics, stainless steel, and a variety of elastomer seals.

## Features

- ♦ Wetted parts composed of non-corrosive plastics, stainless steel, and a variety of elastomer seals.
- ♦ Offers 2-Way NC, and 3-Way configurations.
- ♦ Requires no pressure to operate.
- ♦ Provides high cycle life.
- ♦ Small package with no sliding metal-to-metal surfaces.
- ♦ Eliminates potential leak paths with integral barbs molded as part of the valve body and machined to the endplate.

## Electrical

**Power:**

2.5 Watts

4.2 Watts

**Voltage:**

12 VDC

24 VDC

## Wetted Materials

**Materials Contacting Media:**

PTFE, Stainless Steel, Seal, Body  
Diaphragm Version: EPDM & Ryton

**Seal Options:**

FKM, EPDM

**Body Options:**

Standard: PEEK Diaphragm: Ryton

## Performance Characteristics

**Operating Pressure:**

VAC - 100 psig

VAC - 50 psig

VAC - 20 psig

**Orifice Diameters:**

0.055" (1.40 mm)

0.078" (1.98 mm)

0.090" (2.29 mm)

**Fitting Type:**

1/16" Barb

1/8" Barb

3/16" Barb

*Diaphragm Version*

0 - 25 psig

0.078" (1.98 mm)

1/8" Barb

**Leak Rate:**

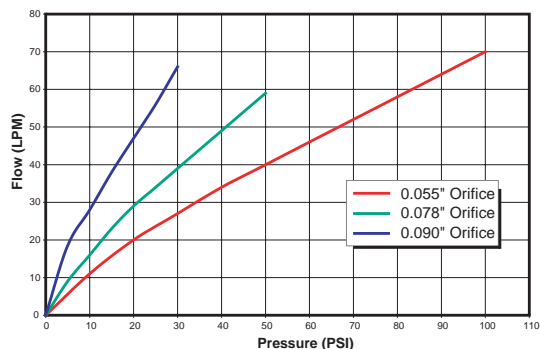
Bubble Tight

**Response:**

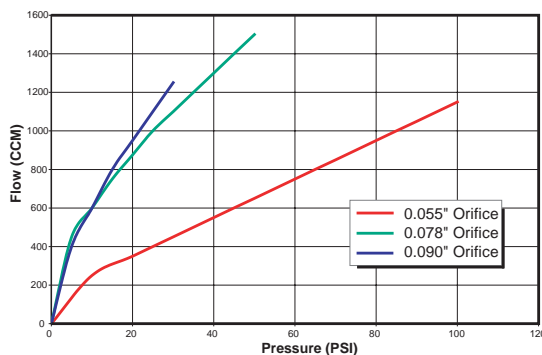
20 millisecond

## Flow

SERIES 3 AIR FLOW



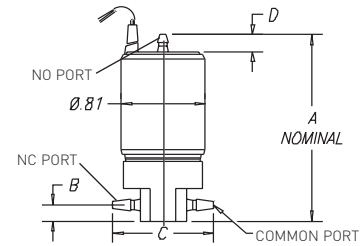
SERIES 3 WATER FLOW



## Dimensions

## DIMENSIONS (INCHES)

PORTS	THREE-WAY				TWO-WAY		
	A	B	C	D	A	B	C
1/16 BARBS	1.86	0.16	0.98	0.17	1.69	0.16	0.98
1/8 BARBS	2.03	0.16	1.15	0.35	1.69	0.16	1.15
3/16 BARBS	2.13	0.16	1.32	0.44	1.69	0.16	1.32



## Ordering Information

part description	part number							
	003-0137-900	003-0218-900	003-0130-900	003-0214-900	003-0096-900	003-0264-900	003-0194-900	
	Valve Type	2-Way NC	2-Way NC	3-Way	3-Way	2-Way NC	2-Way NC	3-Way
	Media	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases
	Operating Pressure	Vacuum - 100 psi	Vacuum - 100 psi	Vacuum - 100 psi	Vacuum - 100 psi	Vacuum - 100 psi	Vacuum - 100 psi	Vacuum - 100 psi
	Orifice	0.055"	0.055"	0.055"	0.055"	0.055"	0.055"	0.055"
	Valve Body Material	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK
	Voltage	12 VDC	12 VDC	12 VDC	12 VDC	24 VDC	24 VDC	24 VDC
	Porting	1/16" Barb	1/16" Barb	1/16" Barb	1/16" Barb	1/16" Barb	1/16" Barb	1/16" Barb
	Operating Environment	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F
	Material Contact Media	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body
	Seals	FKM	EPDM	FKM	EPDM	FKM	EPDM	FKM

part description	part number						
	003-0241-900	003-0141-900	003-0260-900	003-0120-900	003-0356-900	003-0111-900	003-0257-900
	Valve Type	3-Way	2-Way NC	2-Way NC	3-Way	2-Way NC	2-Way NC
	Media	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases
	Operating Pressure	Vacuum - 100 psi	Vacuum - 50 psi	Vacuum - 50 psi	Vacuum - 50 psi	Vacuum - 50 psi	Vacuum - 50 psi
	Orifice	0.055"	0.078"	0.078"	0.078"	0.078"	0.078"
	Valve Body Material	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK
	Voltage	24 VDC	12 VDC	12 VDC	12 VDC	12 VDC	24 VDC
	Porting	1/16" Barb	1/8" Barb	1/8" Barb	1/8" Barb	1/8" Barb	1/8" Barb
	Operating Environment	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F
	Material Contact Media	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body
	Seals	EPDM	FKM	EPDM	FKM	EPDM	FKM

part description	part number					
	003-0165-900	003-0258-900	003-0178-900	003-0496-900	003-0175-900	003-0189-900
Valve Type	3-Way	3-Way	2-Way NC	2-Way NC	2-Way NC	2-Way NC
Media	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases
Operating Pressure	Vacuum - 50 psi	Vacuum - 50 psi	Vacuum - 25 psi	Vacuum - 25 psi	Vacuum - 20 psi	Vacuum - 20 psi
Orifice	0.078"	0.078"	0.078"	0.078"	0.090"	0.090"
Valve Body Material	PEEK	PEEK	Ryton	Ryton	PEEK	PEEK
Voltage	24 VDC	24 VDC	12 VDC	24 VDC	12 VDC	12 VDC
Porting	1/8" Barb	1/8" Barb	1/8" Barb	1/8" Barb	3/16" Barb	3/16" Barb
Operating Environment	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F
Material Contact Media	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	EPDM, Ryton	EPDM, Ryton	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body
Seals	FKM	EPDM	EPDM Diaphragm	EPDM Diaphragm	FKM	EPDM

part description	part number					
	003-0328-900	003-0347-900	003-0359-900	003-0376-900	003-0421-900	003-0461-900
Valve Type	3-Way	3-Way	2-Way NC	2-Way NC	3-Way	3-Way
Media	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases	Liquids & Gases
Operating Pressure	Vacuum - 20 psi	Vacuum - 20 psi	Vacuum - 20 psi	Vacuum - 20 psi	Vacuum - 20 psi	Vacuum - 20 psi
Orifice	0.090"	0.090"	0.090"	0.090"	0.090"	0.090"
Valve Body Material	PEEK	PEEK	PEEK	PEEK	PEEK	PEEK
Voltage	12 VDC	12 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Porting	3/16" Barb	3/16" Barb	3/16" Barb	3/16" Barb	3/16" Barb	3/16" Barb
Operating Environment	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F	40 - 150 deg F
Material Contact Media	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body	PTFE, Stainless Steel, Seals, Body
Seals	FKM	EPDM	FKM	EPDM	FKM	EPDM

For more information, call us toll-free at 1-973-575-4844