

# Table of Contents

## • Isolation Valves

Series 385 - Miniature, Manifold Mount Rocker Isolation	1
Series 458 - Miniature, In-Line Rocker Isolation	4
Series 462 - Miniature, Inert Isolation, PEEK & FFKM	8
Series 190/330 - 2 Way, PTFE, Miniature Individual Valves & Mixing Manifolds	10
Series 368/364 - 2 and 3 Way, PTFE, Miniature & High Flow Valves	14
Series 8296 - 2 Way, High Flow, Inert Isolation, PEEK, PTFE & FFKM	17
Series 8396 - 3 Way, High Flow, Inert Isolation, PEEK, PTFE & FFKM	19
Series 282 - 2 Way, High Flow Isolation, Stainless Steel, PVDF, & PP Bodies	21
Series 8260 - 2 Way, High Flow, Acetal, PP & Nylon Bodies	25
Series 283 - 2 Way, High Flow, Lever Isolation	29
Series 383 - 3 Way, High Flow, Lever Isolation	33

## • Pinch Valves

Series 284 - 2 Way, Normally Closed & Normally Open	37
Series 384 - 3 Way, Universal	39
Series 388/390/397/401 - 2 Way, Compact/Low Power Constructions	41
Series 373/443 - 3 Way, Compact/Low Power Constructions	45

## • General Services Valves

Series 188 - 10mm Wide Solenoid, In-line & Manifold Mount	47
Series 302 - 15mm Wide Solenoid, Manifold Mount	49
Series 407C - 1/2" Diameter Solenoid, In-line Porting	52
Series 407M - 1/2" Diameter Solenoid, Manifold Moun	55
Series AL - 3/4" Diameter Solenoid, In-line Porting	58
Series AM - 3/4" Diameter Solenoid, Manifold Mount	61
Series 202 - Micro Proportional Solenoid Valves	64
Series 8202/8303 - Proportional Solenoid Valves	66

## • Solenoid Valve Manifolds and Customized Products

Series 451 AM Manifolds & Assemblies	70
Customized Solutions	72

## • Accessories

Fittings	73
Pinch Valve Tubing	74
DIN Electrical Connectors	75

## • Materials of Construction

77

## • Global Contacts

# ASCO SCIENTIFIC®

The Series 385 is a 16 mm wide, manifold mount, miniature isolation valve designed to control the flow of aggressive chemicals or high purity fluids. The Series 385 offers the following benefits:

- Compact manifold design saves space and reduces assembly time.
- Prevents contamination of fluid sample, due to excellent flushing characteristics.
- Rocker design significantly reduces erratic flow caused by pumping action in poppet style valves.
- Available with inert materials of construction such as PEEK and FFKM to handle aggressive chemicals or high purity media.

## Construction

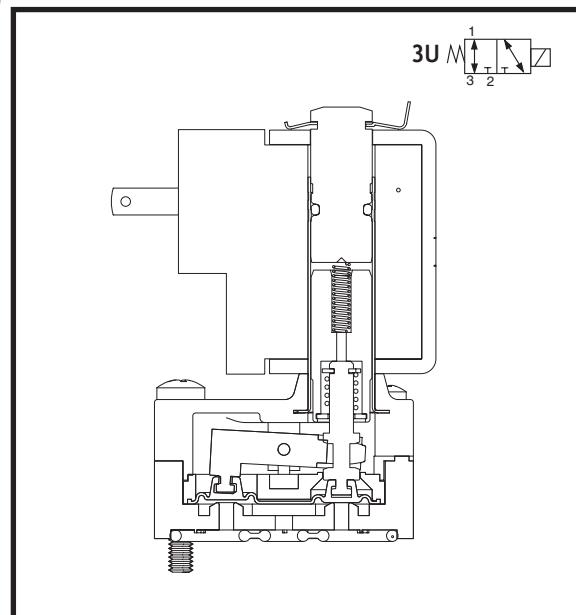
Valve Parts in Contact with Fluids	
Body	PEEK
Diaphragm	FFKM (Perfluoro Elastomer), EPDM or FKM

## Electrical

Standard Voltages	12, 24 VDC (+10%, -5%)
Power Consumption	4 Watts
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Electrical Connection	15" Lead Wire Assembly, DIN Terminals (2.8mm x .5mm, DIN 46340)
Protection Rating	Watertight (IP65) with DIN Plug Connector

## Valve

Response Time	~20 ms (to open or close)
Internal Volume	67µL
Fluid Temperature	14°F to 140°F (-10°C to 60°C)
Vacuum Rating	FFKM: 20" Hg at any port EPDM or FKM: Consult ASCO for use with vacuum.

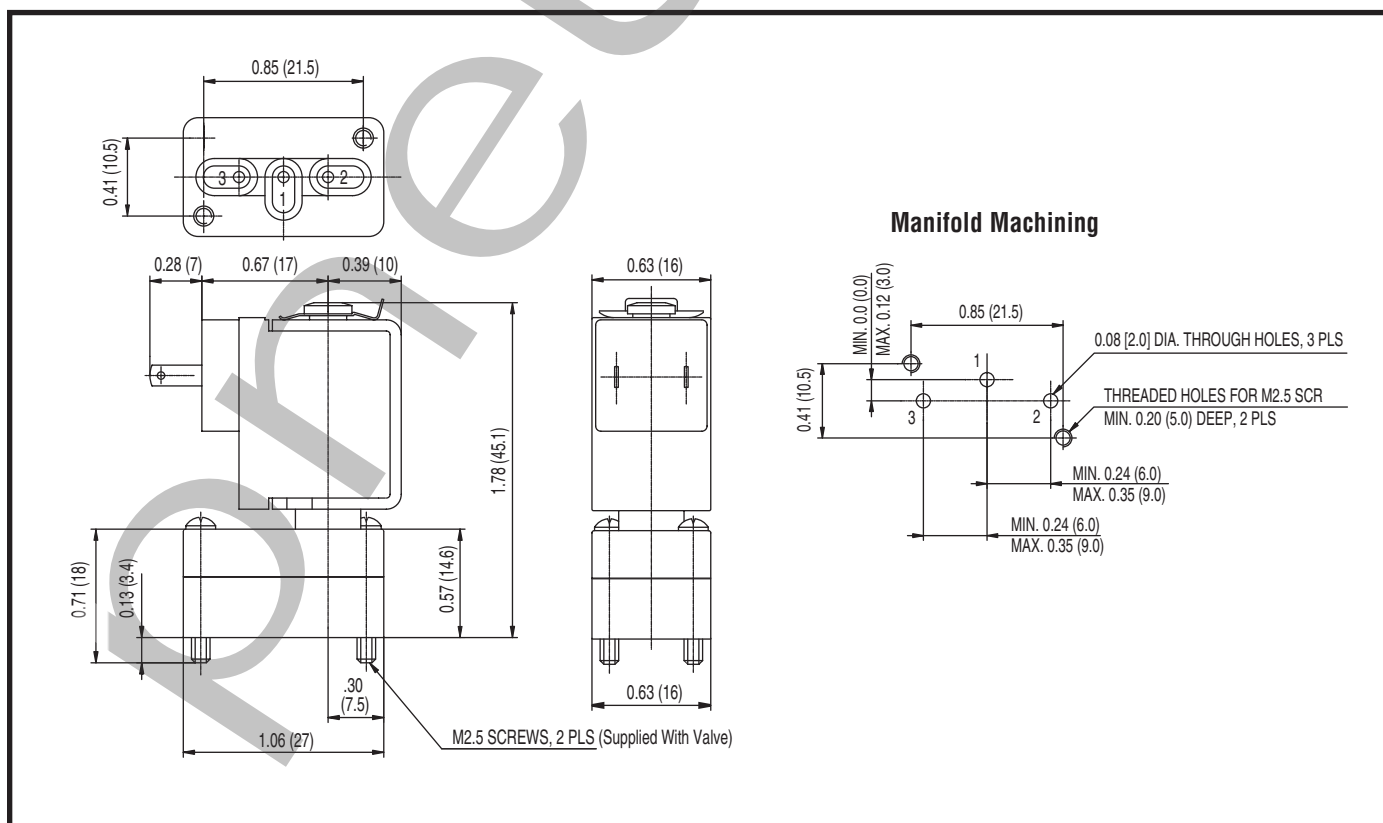


Specifications

Ports	Orifice Size (ins.)	Cv Flow Factor	Differential Pressure (psi)				Diaphragm Material	Catalog Number	Const. Ref.	Power (Watts)	Weight (oz)	
			Min.	Max.		DC						
				AC	DC							
<b>Valve with Leaded Coil</b>												
Manifold	0.06	0.04	0	-	35	-	35	FFKM	S385A001	1	4	1.4
								EPDM	S385A001E			
								FKM	S385A001V			
1/4-28 UNF FB	0.06	0.04	0	-	35	-	35	FFKM	8385A001	2	4	1.4
								EPDM	8385A001E			
								FKM	8385A001V			
Barb for 3/32" ID Tube	0.06	0.04	0	-	35	-	35	FFKM	H385A001	3	4	1.4
								EPDM	H385A001E			
								FKM	H385A001V			
<b>Valve with DIN Terminal Coil</b>												
Manifold	0.06	0.04	0	-	35	-	35	FFKM	SCS385A001	1	4	1.4
								EPDM	SCS385A001E			
								FKM	SCS385A001V			
1/4-28 UNF FB	0.06	0.04	0	-	35	-	35	FFKM	SC8385A001	2	4	1.4
								EPDM	SC8385A002V			
								FKM	SC8385A001V			
Barb for 3/32" ID Tube	0.06	0.04	0	-	35	-	35	FFKM	SCH385A001	3	4	1.4
								EPDM	SCH385A001E			
								FKM	SCH385A001V			

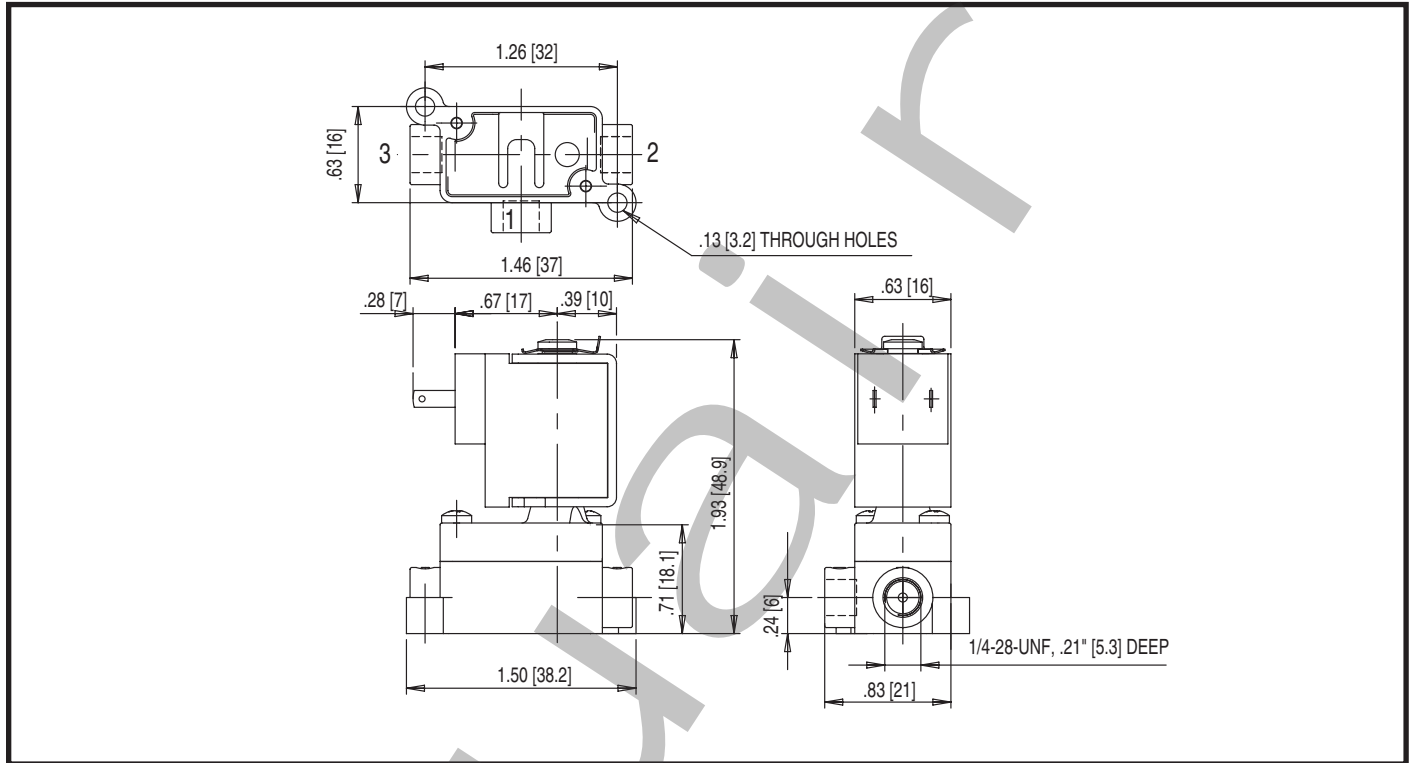
Dimensions: Inches (mm)

Constr. Ref. 1

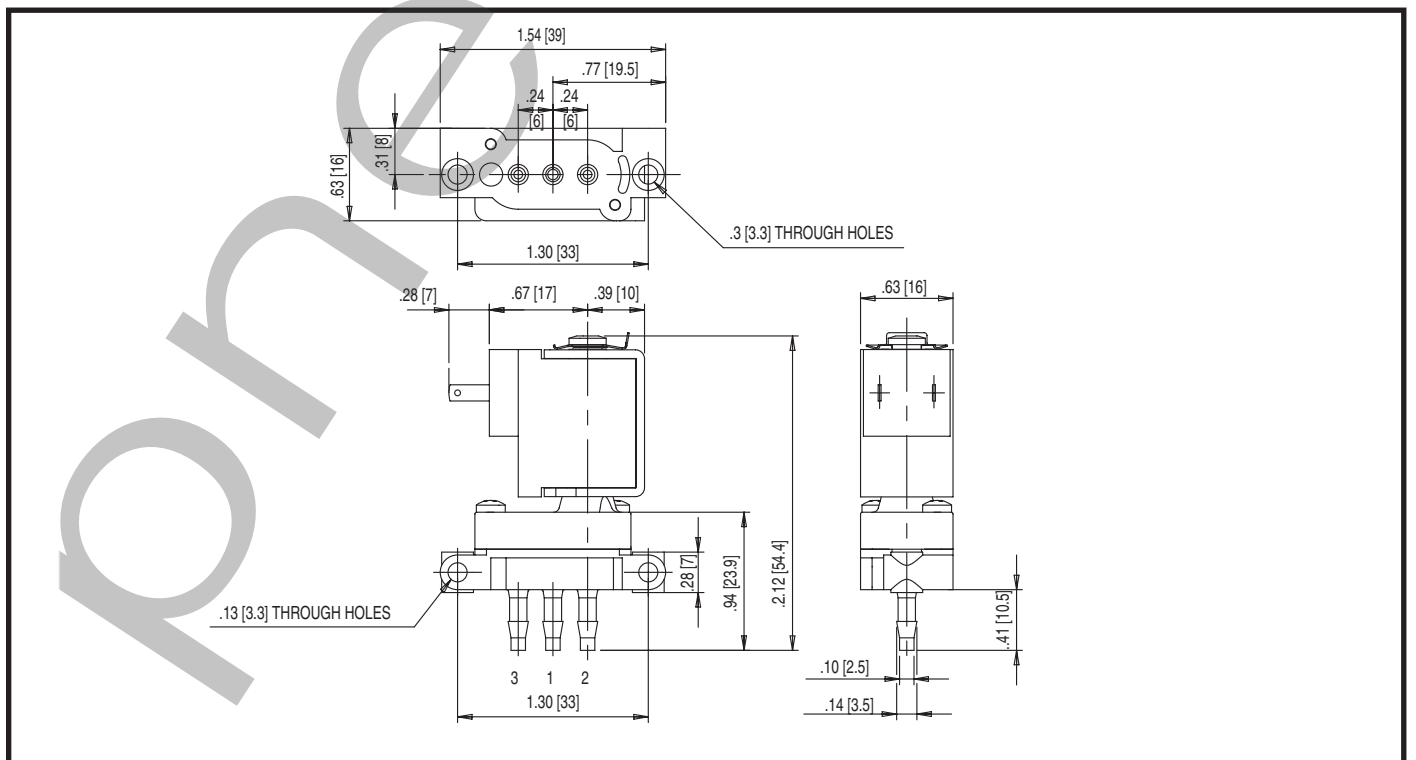


Dimensions: Inches [mm]

Constr. Ref. 2



Constr. Ref. 3



ASCO Scientific's patented Series 458 Rocker Isolation valves feature a unique rocker diaphragm mechanism that shields the internal components of the solenoid from the fluid. The design forms an easy to flush, low volume internal cavity.

- Suitable for corrosive media that would attack valves designed for general service duty.
- Prevents contamination of fluid sample, due to excellent flushing characteristics.
- Rocker design significantly reduces erratic flow caused by pumping action in poppet style valves.
- Standard built-in manual operator for testing or troubleshooting.
- An air operated version is also available. In this version an air cylinder replaces the solenoid as the valve actuator.

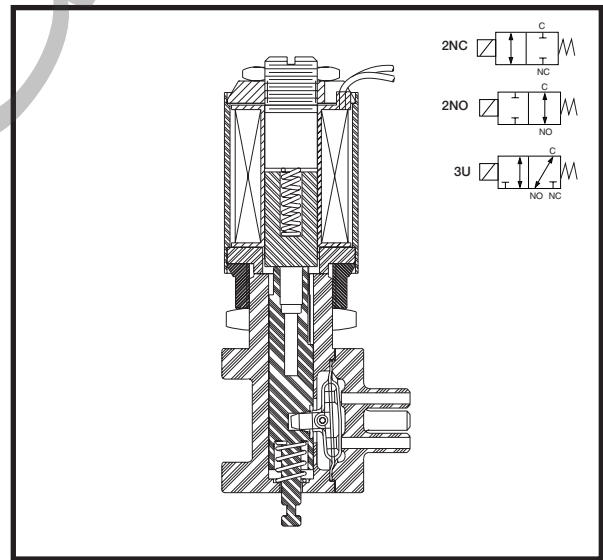


### Construction

Valve Parts in Contact with Fluids	
Flange	PSU or PEEK
Diaphragm	EPDM

### Electrical

Standard Voltages	6, 12, 24 VDC +10%, -5% 115 VAC (with rectifier in lead wires)
Power Consumption	2.5 Watts
Duty Cycle Rating	Continuous
Coil Insulation	266°F (130°C)
Electrical Connection	26 gage lead wire



### Valve

Response Time	~20 ms at rated voltage
Internal Volume -2 Way -3 Way	51 µL 62 µL
Options	<ul style="list-style-type: none"> <li>• Surface or panel mount</li> <li>• Barbed bib ports for 0.062" ID to 0.082" soft tubing</li> <li>• Threaded-flat bottom ports available with #1/4-28 UNF, #10-32 UNF, or M6 threads</li> <li>• Air Operated version (30 psig pilot pressure required)</li> </ul>

### Temperature Range:

Ambient & Media:  
32°F to 114°F (0°C to 45°C) continuous duty

### Approvals:

Meets applicable CE directives.

### Alternative Constructions

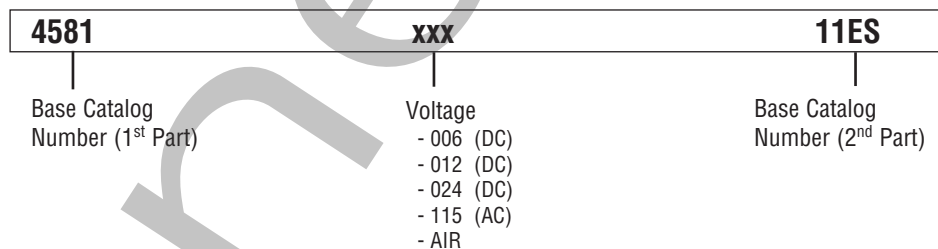
Many alternative constructions are available and include a variety of voltages, electrical connectors and materials of construction. ASCO Scientific can also custom design a valve for your specific application.

Contact your local ASCO sales office for more information.

Specifications

Ports	Orifice Size (ins.)	Cv Flow Factor	Flange Material	Mount	Maximum Pressure (psi)	Catalog Number	Watt Rating @ 20°C	Weight (oz.)
<b>2 WAY NORMALLY CLOSED (Closed when de-energized)</b>								
Barbed Hose Bib	0.062	0.04	PSU	Surface	35	4581xxx11ES	2.5	2
Barbed Hose Bib	0.062	0.04	PSU	Panel	35	4581xxx11EP	2.5	2
#10-32 UNF FB	0.062	0.04	PEEK	Surface	35	4581xxx22ES	2.5	2
#10-32 UNF FB	0.062	0.04	PEEK	Panel	35	4581xxx22EP	2.5	2
1/4-28 UNF FB	0.062	0.04	PEEK	Surface	35	4581xxx32ES	2.5	2
1/4-28 UNF FB	0.062	0.04	PEEK	Panel	35	4581xxx32EP	2.5	2
M6 FB	0.062	0.04	PEEK	Surface	35	4581xxx42ES	2.5	2
M6 FB	0.062	0.04	PEEK	Panel	35	4581xxx42EP	2.5	2
<b>2 WAY NORMALLY OPEN (Open when de-energized)</b>								
Barbed Hose Bib	0.062	0.04	PSU	Surface	35	4582xxx11ES	2.5	2
Barbed Hose Bib	0.062	0.04	PSU	Panel	35	4582xxx11EP	2.5	2
#10-32 UNF FB	0.062	0.04	PEEK	Surface	35	4582xxx22ES	2.5	2
#10-32 UNF FB	0.062	0.04	PEEK	Panel	35	4582xxx22EP	2.5	2
1/4-28 UNF FB	0.062	0.04	PEEK	Surface	35	4582xxx32ES	2.5	2
1/4-28 UNF FB	0.062	0.04	PEEK	Panel	35	4582xxx32EP	2.5	2
M6 FB	0.062	0.04	PEEK	Surface	35	4582xxx42ES	2.5	2
M6 FB	0.062	0.04	PEEK	Panel	35	4582xxx42EP	2.5	2
<b>3 WAY UNIVERSAL OPERATION (Pressure at any port)</b>								
Barbed Hose Bib	0.062	0.04	PSU	Surface	35	4583xxx11ES	2.5	2
Barbed Hose Bib	0.062	0.04	PSU	Panel	35	4583xxx11EP	2.5	2
#10-32 UNF FB	0.062	0.04	PEEK	Surface	35	4583xxx22ES	2.5	2
#10-32 UNF FB	0.062	0.04	PEEK	Panel	35	4583xxx22EP	2.5	2
1/4-28 UNF FB	0.062	0.04	PEEK	Surface	35	4583xxx32ES	2.5	2
1/4-28 UNF FB	0.062	0.04	PEEK	Panel	35	4583xxx32EP	2.5	2
M6 FB	0.062	0.04	PEEK	Surface	35	4583xxx42ES	2.5	2
M6 FB	0.062	0.04	PEEK	Panel	35	4583xxx42EP	2.5	2
<b>Notes</b>								
"xxx" Denotes place in catalog number for voltage or air operator designation								

Catalog Number Description and Options



To Construct Catalog Number

- Select base catalog number
- Insert voltage into the 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> digits denoted by "xxx"

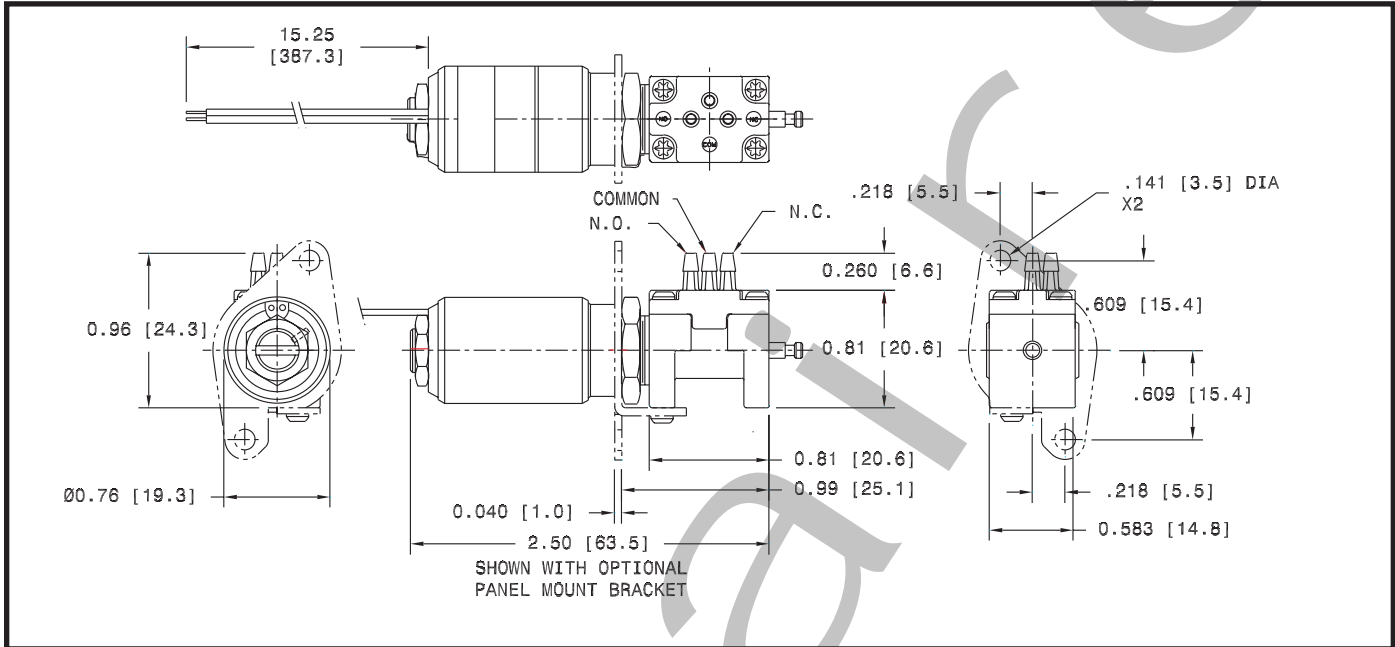
Examples

458103411ES = 2 Way Normally Closed valve with bib ports, PSU flange, surface mounting and a 24 VDC coil

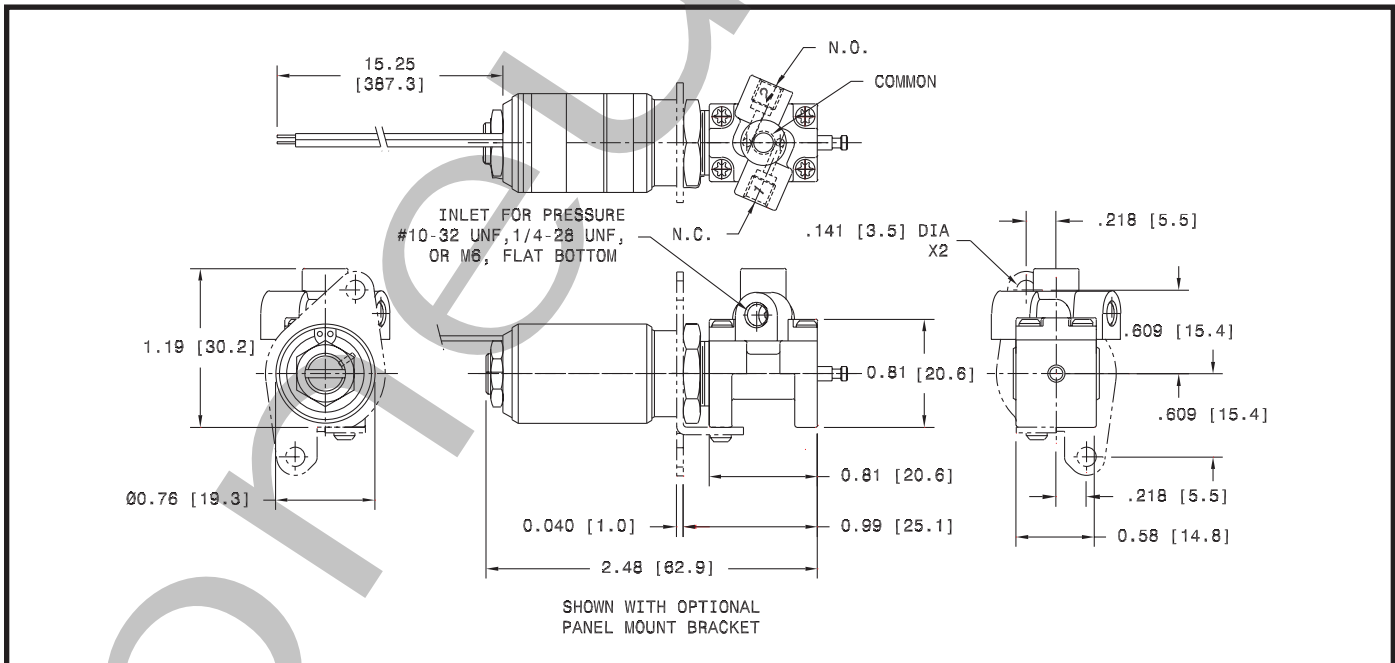
4582AIR22EP = 2 Way Normally Open valve with #10-32 UNF flat bottom ports, PEEK flange, panel mounting and an air operator

458311542ES = 3 Way valve with M6 flat bottom ports, PEEK flange, surface mounting and a 115 VAC coil with rectifier

Dimensions Solenoid Operated with Bib Flange: Inches [mm]



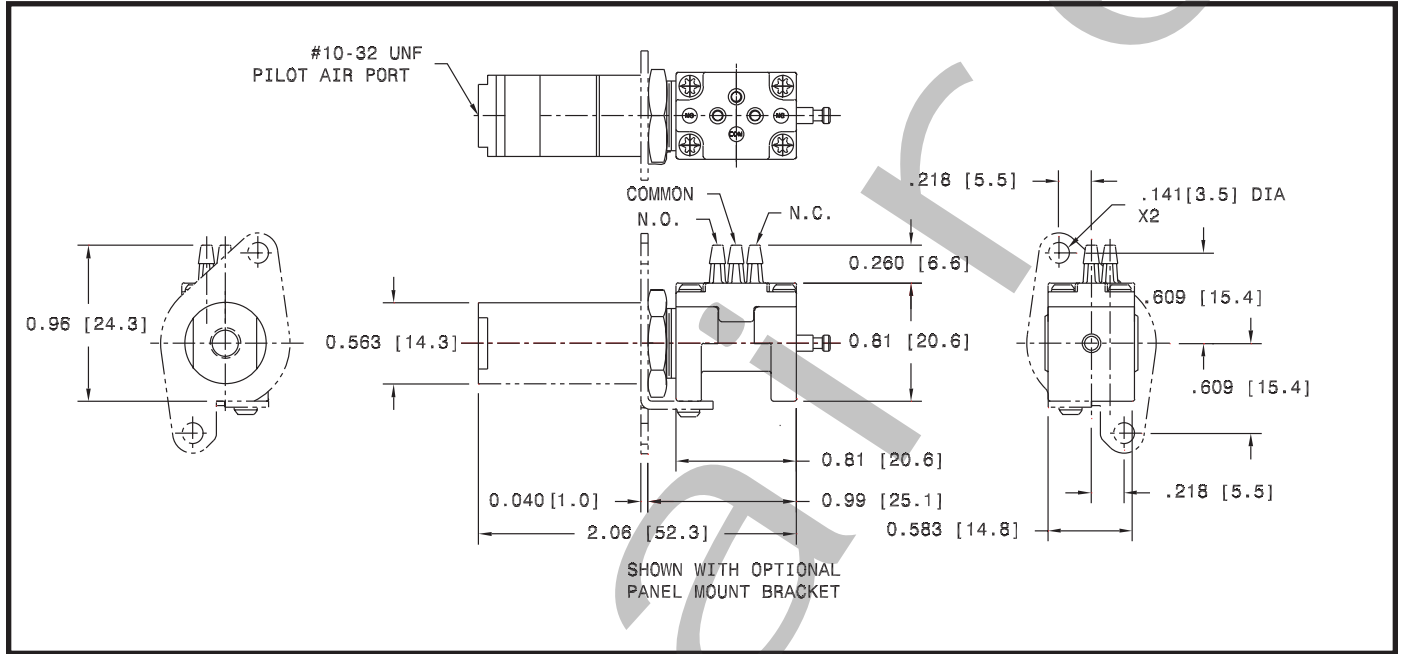
Solenoid Operated with Threaded Flange: Inches [mm]



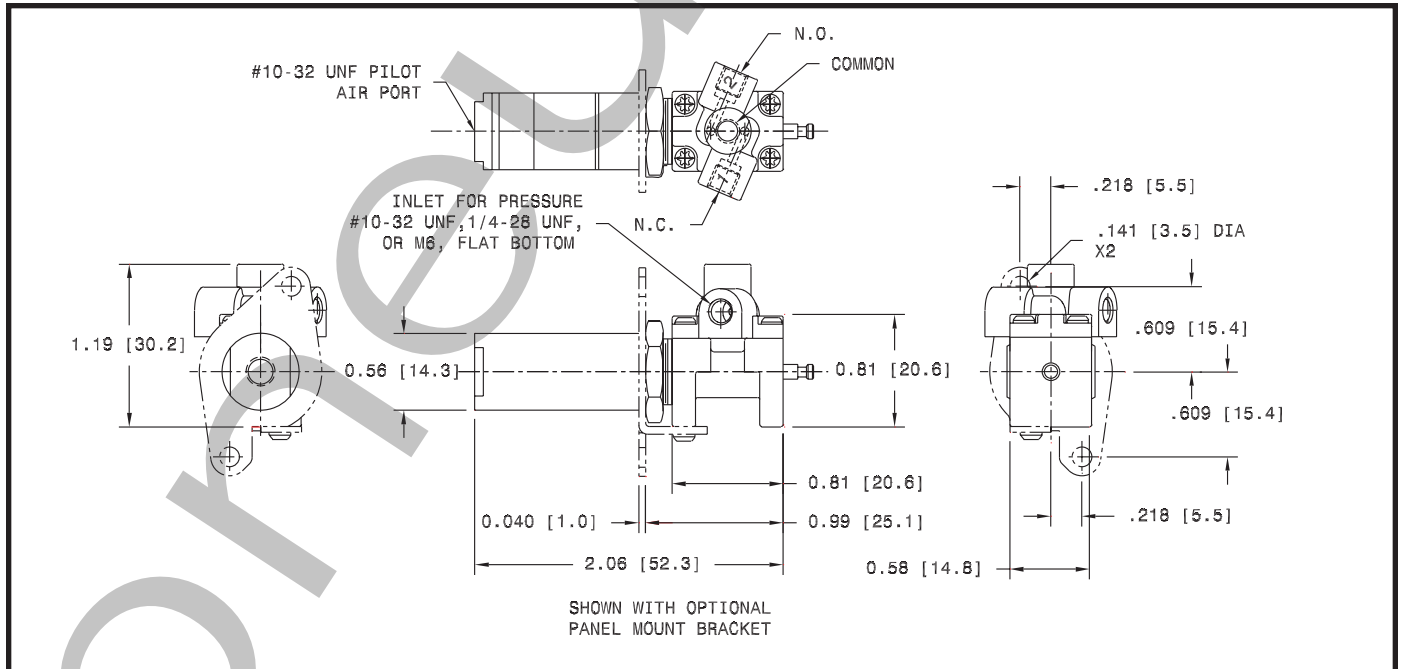
Notes

- 3 Way versions shown, 2 Way versions are the same except they do not include the middle ports
- Bracket for optional panel mount shown in dashed lines

Air Operated with Bib Flange: Inches [mm]



Air Operated with Threaded Flange: Inches [mm]



Notes

- 3 Way versions shown, 2 Way versions are the same except they do not include the middle ports
- Bracket for optional panel mount shown in dashed lines



The Series 462 is a 3 Way, Inert Isolation Valve designed to control the flow of corrosive or high purity fluids commonly found in analytical instrumentation. Its unique "Resilient-Seal" technology utilizes a soft FFKM (Kalrez\*) seal, which virtually eliminates leakage caused by small particulate matter.

- Highly resistant to corrosive fluids, the only materials in contact with the media are PTFE, PEEK, and FFKM (Kalrez\*).
- Low internal volume reduces the amount of costly reagents that are wasted.
- Compact overall size (1" dia. x 1.6" height) saves valuable space in OEM equipment.
- Low power consumption - Less than 3 Watts.



### Construction

Valve Parts in Contact with Fluids	
Body	PEEK
Disc	FFKM (Kalrez*)
Diaphragm	PTFE
Pin	PEEK

\*DuPont Co. trademark

### Electrical

Standard Voltages	12, 24 VDC +10%, -15%
Power Consumption	2.8 Watts
Duty Cycle Rating	Continuous
Coil Insulation	356°F (180°C)
Electrical Connection	26 gage lead wire

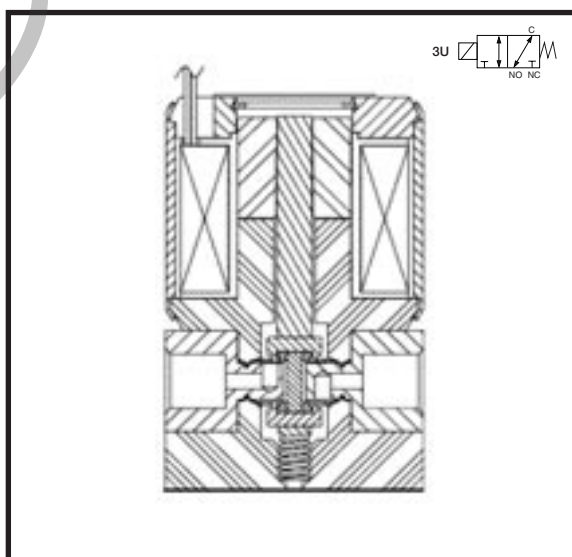
### Valve

Response Time	20 ms at rated voltage
Internal Volume	34 µL from NC or NO port to common 12 µL from NC to NO port to seat 46 µL total

### Alternative Constructions

Many alternative constructions are available including a wide variety of voltages, electrical connectors and materials of construction. ASCO Scientific can also custom design a valve for your specific application.

Contact your local ASCO sales office for more information.



### Temperature Range:

Ambient & Media:  
32°F to 122°F (0°C to 50°C)

### Approvals:

Meets applicable CE directives.

Specifications

Ports	Orifice Size (ins.)	Cv Flow Factor	Body Material	Maximum Pressure (psi)	Catalog Number	Watt Rating @ 20° C	Weight (oz.)
<b>3 WAY UNIVERSAL OPERATION (Pressure at any port)</b>							
1/4 - 28 UNF Flat Bottom	0.062	0.034	PEEK	30	462312PFxx	2.8	3.2

**Notes**  
"xx" Denotes place in catalog number for voltage, three characters may be used when required.

Catalog Number Description and Options

462312PF

xx

Base Catalog Number

Voltage  
- 12 (DC)  
- 24 (DC)

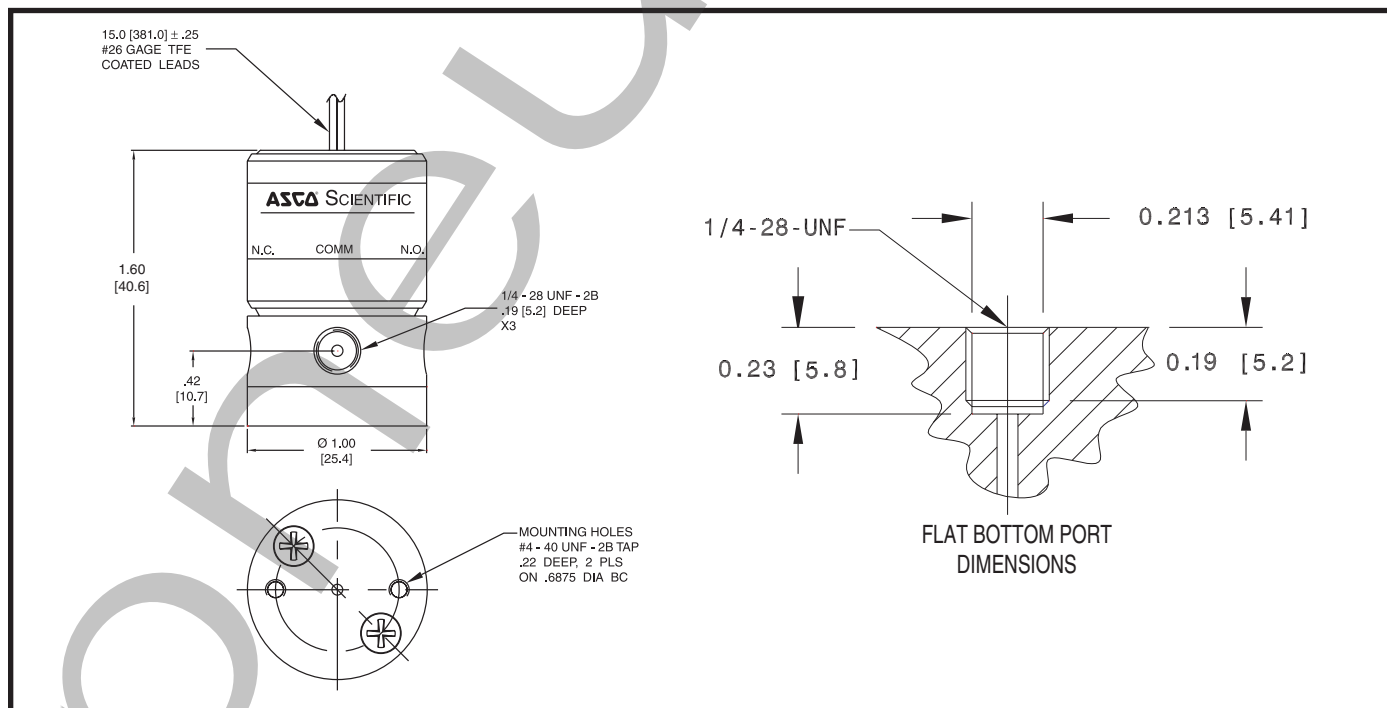
To Construct Catalog Number

- Select base catalog number from table
- Insert voltage into the 9<sup>th</sup> and 10<sup>th</sup> digits denoted by "xx"

Example

462312PF24 = 3 Way valve with PEEK body, .062" (1.57 mm) orifice, 1/4 - 28 UNF, flat bottom ports and 24 VDC coil

Dimensions: Inches [mm]



The Series 190 & 330 are 2 Way, normally closed isolation valves constructed with TFE materials, which makes them virtually impervious to chemical attack. The Series 190 is a single valve while the Series 330 offers the same valve in a 2, 3, or 4 position manifold configuration for use in chromatography, solvent selection and process sampling.

- PTFE diaphragm shields the internal components of the solenoid from the media to handle the most aggressive fluids.
- Compact size saves valuable space in equipment.
- Low power consumption.

### Construction

Valve Parts in Contact with Fluids	
Body	PTFE
Seat	CTFE
Diaphragm	PTFE

### Electrical

Standard Voltages	12, 24 VDC+ 10%, -5%
Power Consumption	2.9 - 3.8 Watts (12 watts for latching version)
Duty Cycle Rating	Continuous (Intermittent for latching version)
Coil Insulation	356°F (180°C)
Electrical Connection	26 gage lead wire

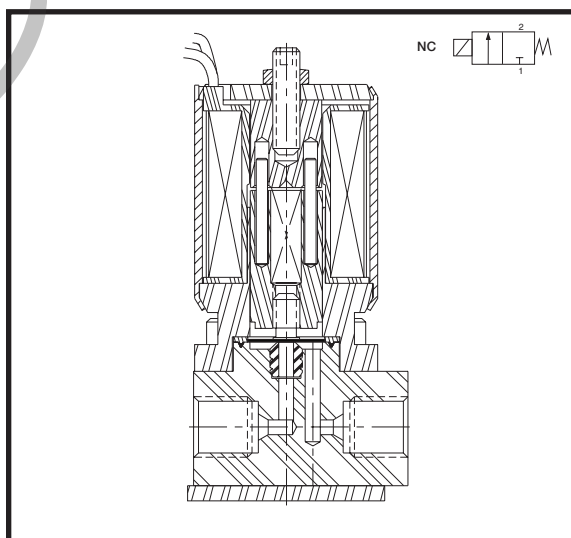
### Valve

Response Time	~5 ms at rated voltage (2 watt coil)
Internal Volume	20 µL from port 1 to seat (not including port) 52 µL from port 2 to seat (not including port)
Options	<ul style="list-style-type: none"> <li>• Magnetic Latching</li> <li>• Single valve or 2, 3, and 4 position manifolds</li> </ul>

### Alternative Constructions

Many alternative constructions are available and include a variety of voltages, electrical connectors and materials of construction. ASCO Scientific can also custom design a valve for your specific application.

Contact your local ASCO sales office for more information.



### Temperature Range:

Ambient & Media:  
32°F to 77°F (0°C to 25°C) continuous duty  
up to 104°F (40°C) intermittent duty

### Approvals:

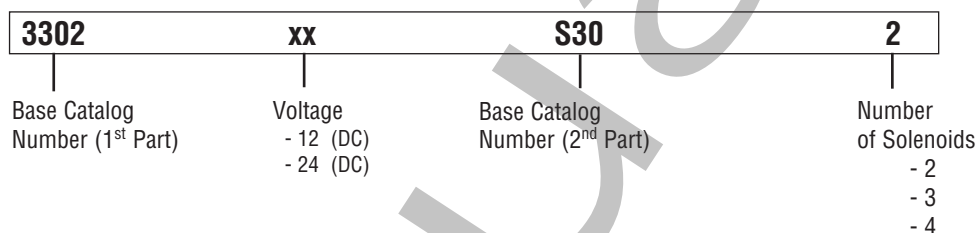
Meets applicable CE directives.

Specifications

Ports	Orifice Size (ins.)	Cv Flow Factor	Maximum Pressure (psi)	Catalog Number	No. of Solenoids	Watt Rating @ 20°C	Weight (oz.)
<b>2 WAY NORMALLY CLOSED (Closed when de-energized)</b>							
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	1902xxS30	1	2.9 (12VDC), 3.8 (24VDC)	2.0
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	3302xxS302	2	2.9 (12VDC), 3.8 (24VDC)	4.1
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	3302xxS303	3	2.9 (12VDC), 3.8 (24VDC)	6.5
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	3302xxS304	4	2.9 (12VDC), 3.8 (24VDC)	9.7
<b>2 WAY LATCHING</b>							
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	1902xxL30	1	12*	2.0
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	3302xxL302	2	12*	4.1
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	3302xxL303	3	12*	6.5
1/4 - 28 UNF Flat Bottom	0.062	0.03	30	3302xxL304	4	12*	9.7

**Notes**  
 "xx" Denotes place in catalog number for voltage  
 \* Latching valves are designed for intermittent duty only. Wattage rating applies to 20 – 30 ms duration required to actuate valve. Once switched no additional power is required to hold the valve in its position.

Catalog Number Description and Options



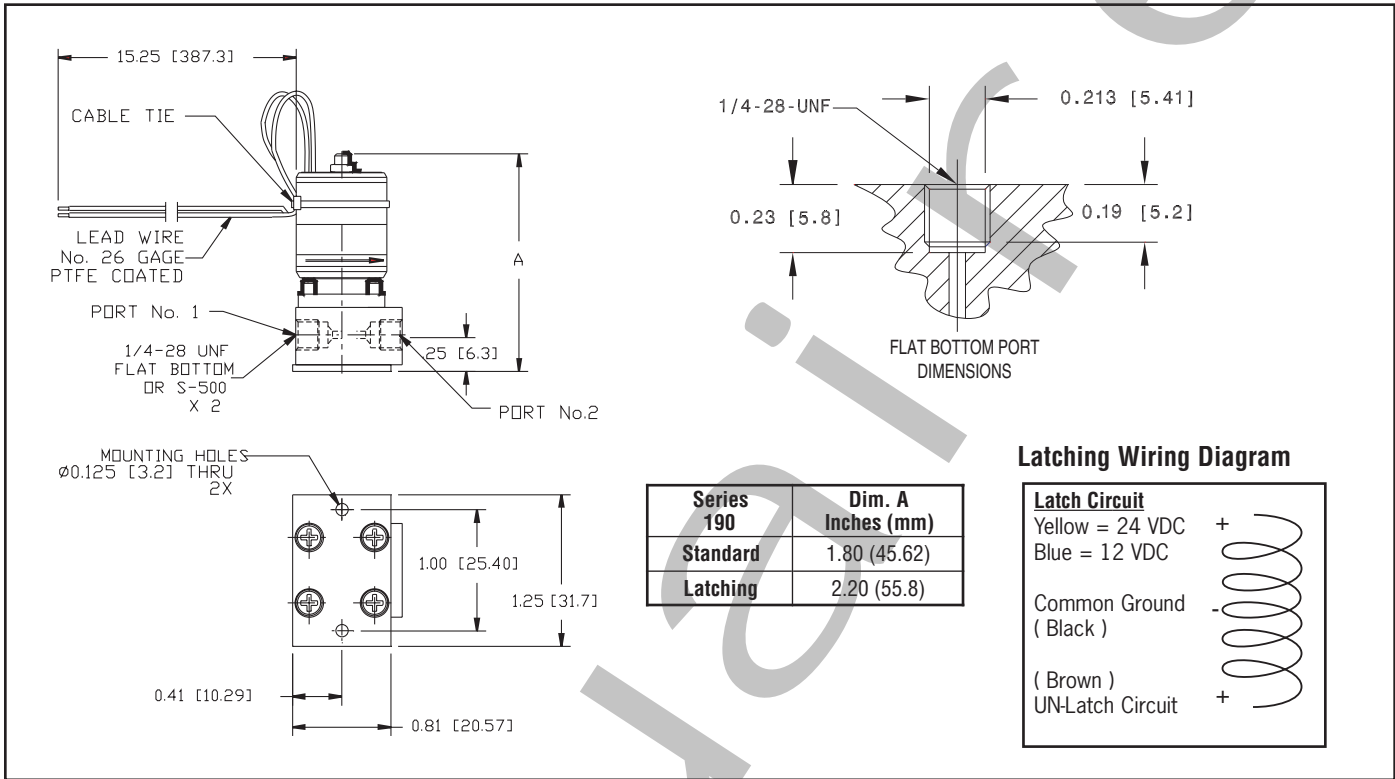
To Construct Catalog Number

- Select base catalog number
- Insert voltage into the 5<sup>th</sup> and 6<sup>th</sup> digits denoted by "xx"
- Add number of solenoids (330 series only)

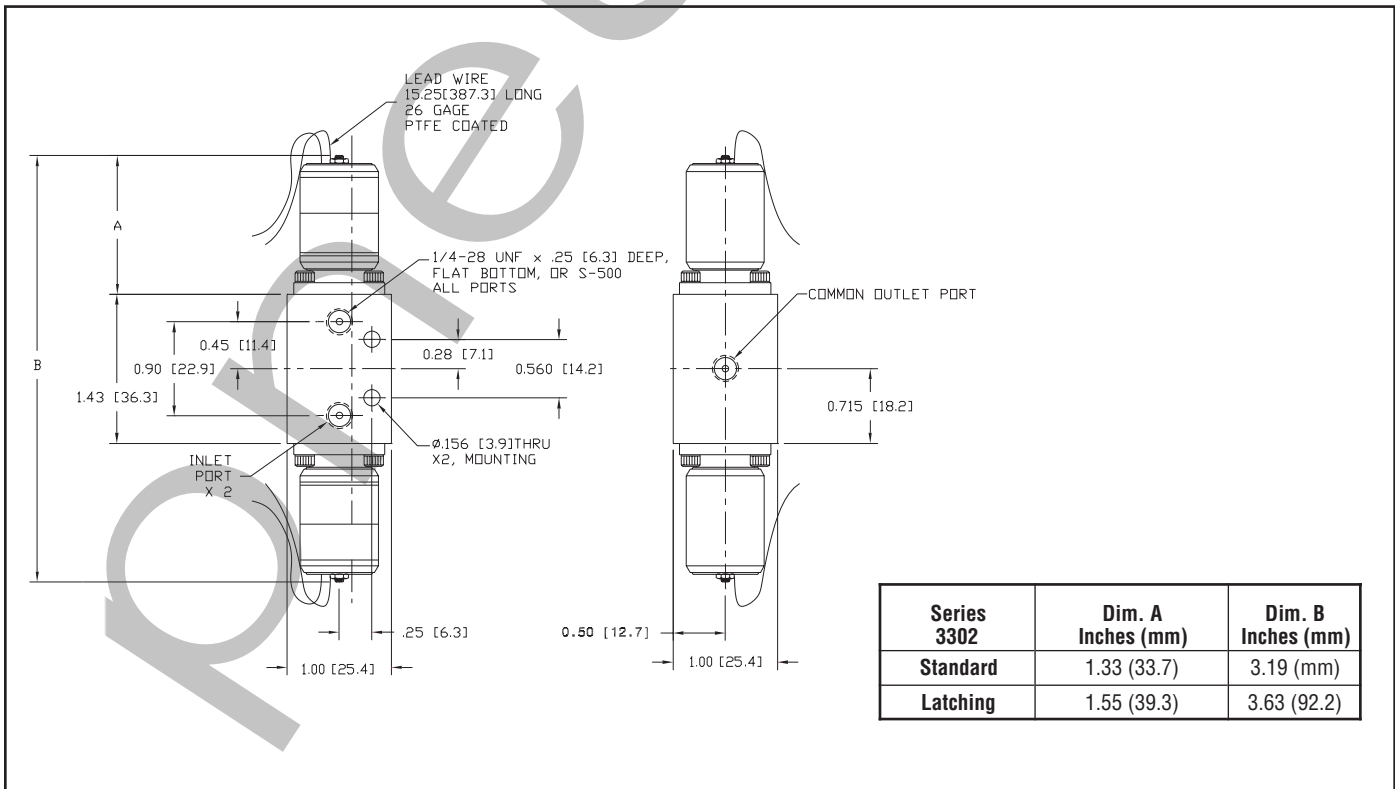
Examples

190212S30 = 2 Way Normally Closed valve with 1/4 - 28 UNF, flat bottom ports and 12 VDC coil rated at 2.9 Watts  
 190224L30 = 2 Way Latching valve with 1/4 - 28 UNF, flat bottom ports and 24 vdc latching coil  
 330224S303 = 3, 2 Way Normally Closed valves mounted on a manifold with 1/4 - 28 UNF, flat bottom ports and 24 vdc coil rated at 3.8 Watts

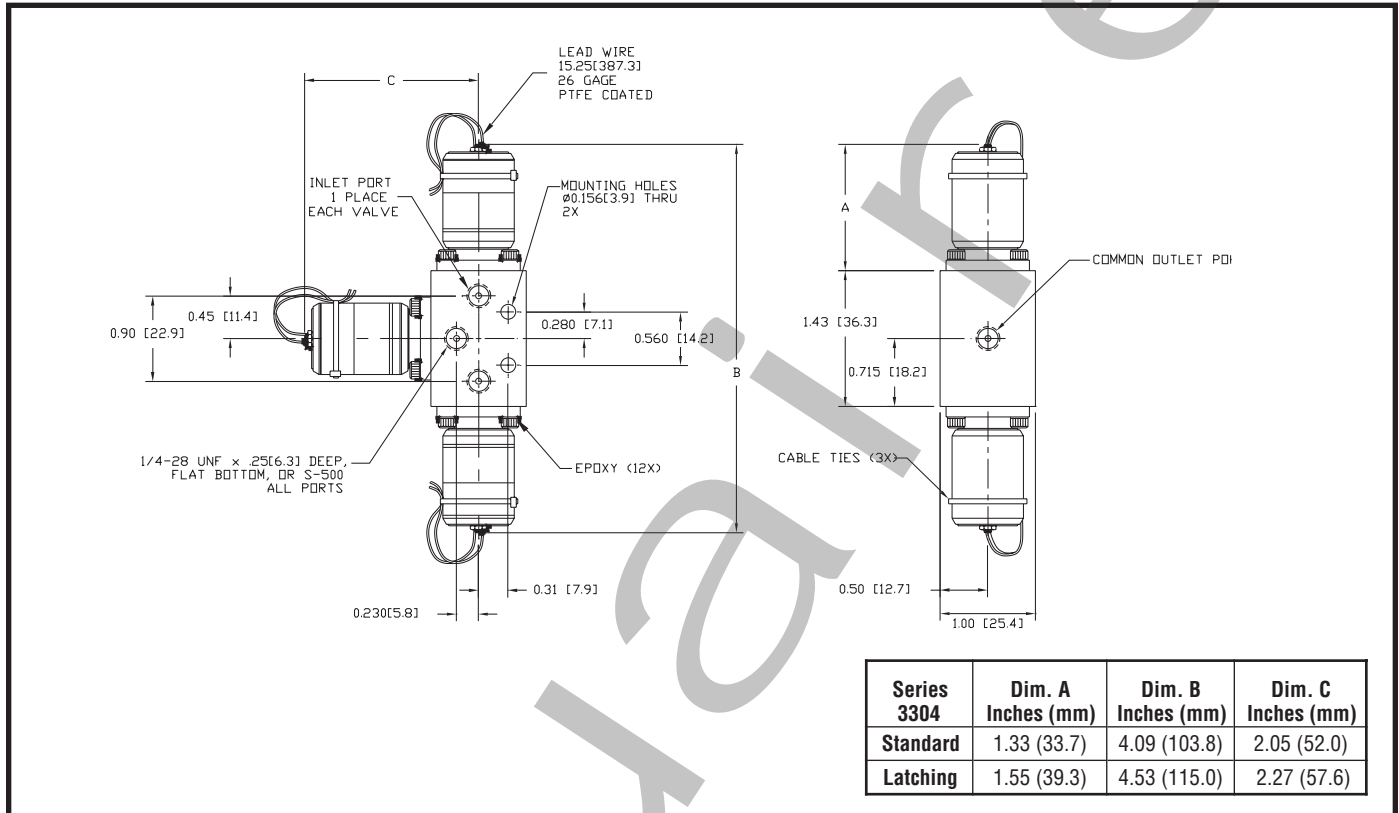
Dimensions Series 190: Inches [mm]



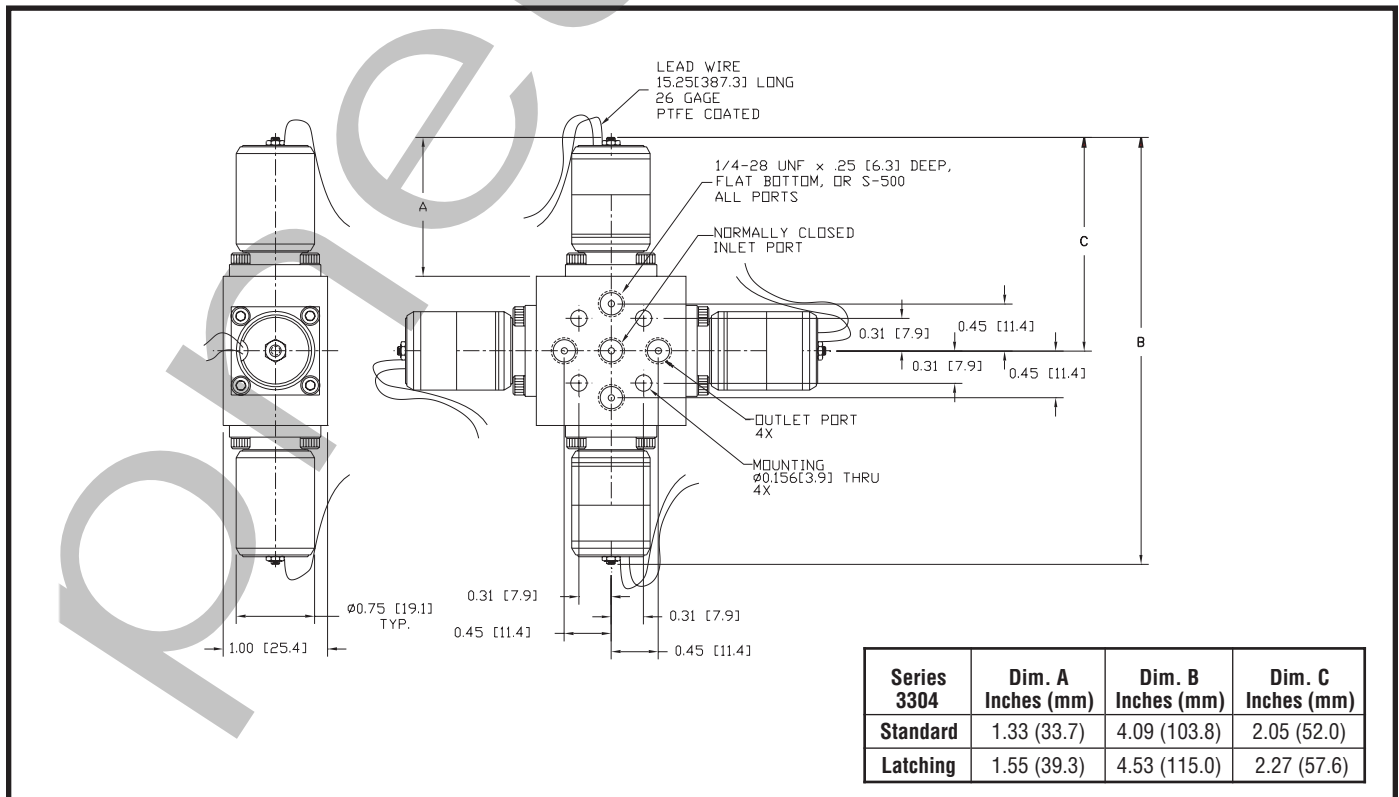
Dimensions Series 330 2 Position Valve Manifold: Inches [mm]



Dimensions Series 330 3 Position Valve Manifold: Inches [mm]



Dimensions Series 330 4 Position Valve Manifold: Inches [mm]



The Series 368/364 are 2 way and 3 way isolation valves constructed with TFE materials, which makes them virtually impervious to chemical attack. The Series 368 is a compact construction with a 0.062" orifice to handle standard flow requirements while the Series 364 is a high flow construction with a 0.093" orifice to handle higher flow requirements.

- PTFE diaphragm shields the internal components of the solenoid from the media to handle the most aggressive fluids.
- Compact size saves valuable space in equipment.
- Low power consumption.

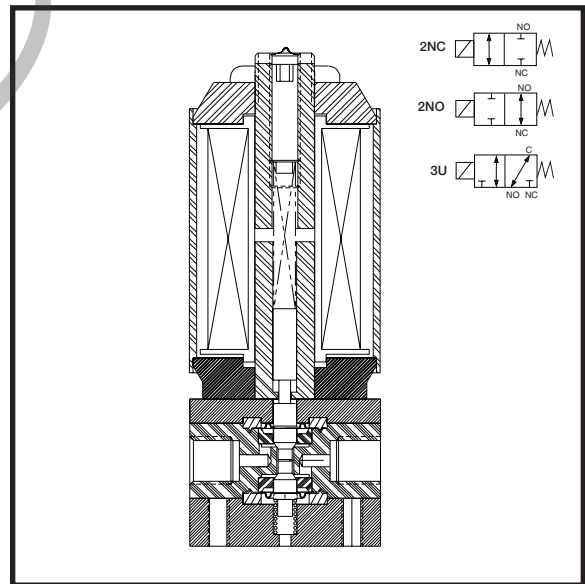


**Construction**

Valve Parts in Contact with Fluids	
Body	ETFE, PTFE
Poppet	PTFE
Diaphragm	PTFE

**Electrical**

Standard Voltages	12, 24 VDC+ 10%, -5% 115 VAC (with rectifier in lead wires)
Power Consumption	4.5 - 6.8 Watts 12 watts (Model 364)
Duty Cycle Rating	Continuous (Intermittent for latching version)
Coil Insulation	356°F (180°C)
Electrical Connection	22 gage lead wire



**Valve**

Response Time	10 to 20 ms at rated voltage
Internal Volume	<b>368</b> • 30 µL from seat to port • 10 µL between poppets

**Temperature Range:**

Ambient & Media:  
32°F to 77°F (0°C to 25°C) continuous duty  
up to 104°F (40°C) intermittent duty

**Approvals:**

Meets applicable CE directives.

**Alternative Constructions**

Many alternative constructions are available and include a variety of voltages, electrical connectors and materials of construction. ASCO Scientific can also custom design a valve for your specific application.

Contact your local ASCO sales office for more information.



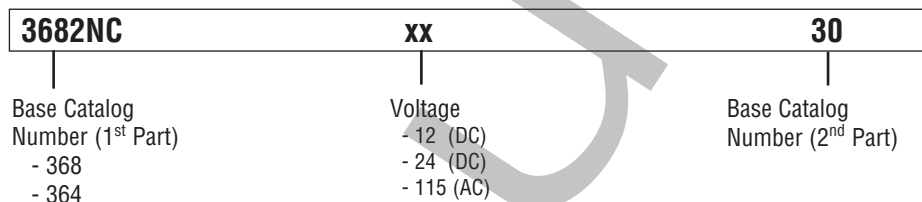
Specifications (English Units)

Ports	Orifice Size (ins.)	Cv Flow Factor	Maximum Pressure (psi)	Catalog Number	Watt Rating @ 20°C	Weight (oz.)
<b>2 WAY NORMALLY CLOSED (Closed when de-energized)</b>						
1/4 - 28 UNF Flat Bottom	0.062	0.03	30*	3682NCxx30	4.5 (12VDC), 5.3 (24VDC), 6.8 (115/50-60 VAC)	4
1/8 NPT	0.093	0.08	30*	3643NCxx30	12 Watts	14
1/4 NPT	0.093	0.08	30*	3644NCxx30	12 Watts	14
<b>2 WAY NORMALLY OPEN (Open when de-energized)</b>						
1/4 - 28 UNF Flat Bottom	0.062	0.03	30*	3682NOxx30	4.5 (12VDC), 5.3 (24VDC), 6.8 (115/50-60 VAC)	4
1/8 NPT	0.093	0.08	30*	3643NOxx30	12 Watts	14
1/4 NPT	0.093	0.08	30*	3644NOxx30	12 Watts	14
<b>3 WAY UNIVERSAL OPERATION (Pressure at any Port)</b>						
1/4 - 28 UNF Flat Bottom	0.062	0.03	30*	36823xx30	4.5 (12VDC), 5.3 (24VDC), 6.8 (115/50-60 VAC)	4
1/8 NPT	0.093	0.08	30*	36433xx30	12 Watts	14
1/4 NPT	0.093	0.08	30*	36443xx30	12 Watts	14

Notes

"xx" Denotes place in catalog number for voltage, three characters may be used when required  
 \* Common port: vacuum to 30 psig • NC + NO Ports: Vacuum to 10 psig

Catalog Number Description and Options



To Construct Catalog Number

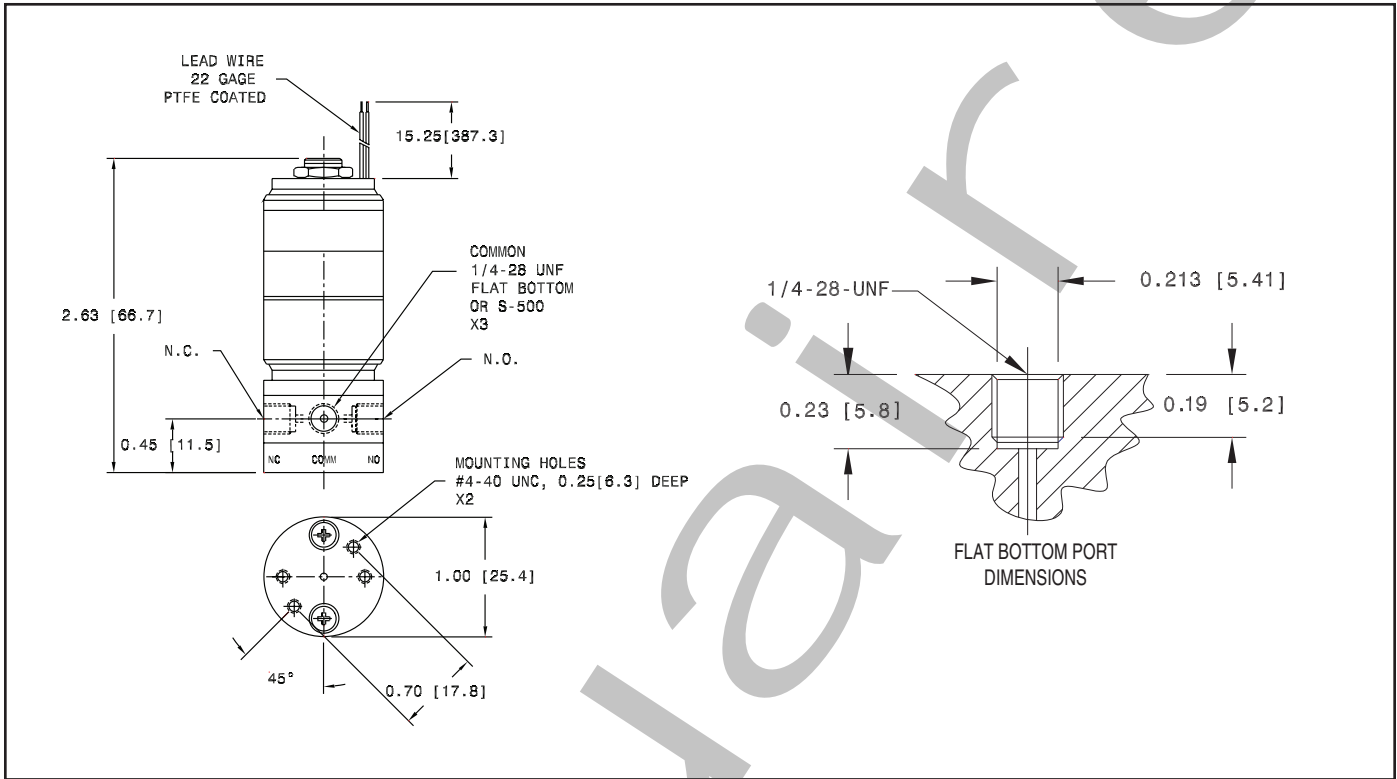
- Select base catalog number
- Insert voltage into the 7<sup>th</sup> and 8<sup>th</sup> digits denoted by "xx"

Examples

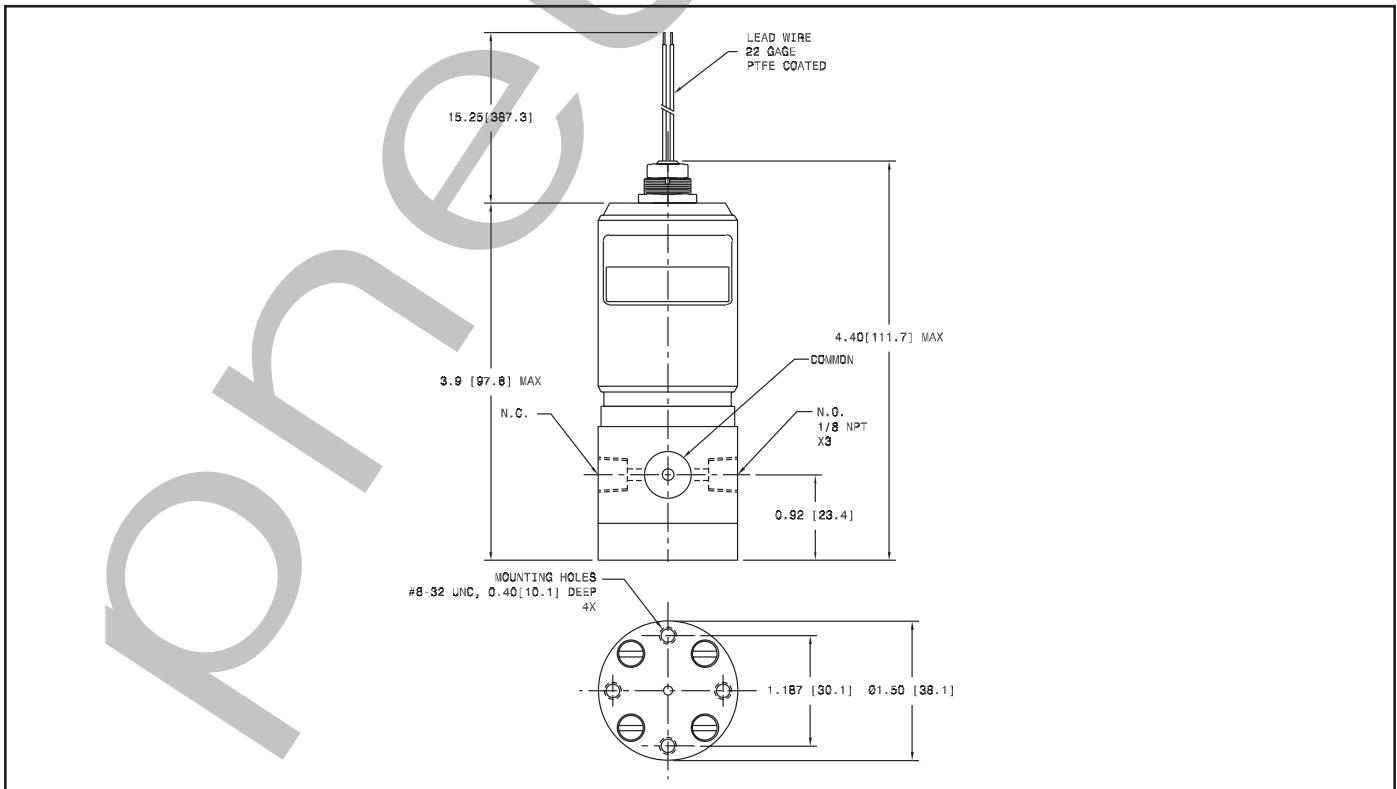
3682NC1230 = 2 Way Normally Closed valve with a 0.062" orifice, 1/4 - 28 UNF, flat bottom ports and 12 VDC coil rated at 4.5 Watts  
 3682311530 = 3 Way valve with a 0.062" orifice, 1/4 - 28 UNF, Flat bottom ports and 115/50-60 VAC coil rectifier  
 364 3NO2430 = 2 Way Normally Open valves with a 0.093" orifice, 1/8" NPT ports ad 24 VDC coil rated at 12 Watts



Dimensions Series 368: Inches (mm)



Dimensions Series 364: Inches (mm)





The Series 8296 is a 2 Way, high flow isolation valve designed to control the flow of aggressive liquids and gases in analytical, semiconductor, and environmental equipment. The Series 8296 offers the following benefits:

- Reliable operation with a wide variety of media due to inert wetted materials such as PEEK, PTFE, stainless steel, and FFKM.
- High flow rates of corrosive or high purity fluids.
- Higher pressure ratings than typical isolation valves.
- Reduced chance of seat leakage with soft FFKM disc.

### Construction

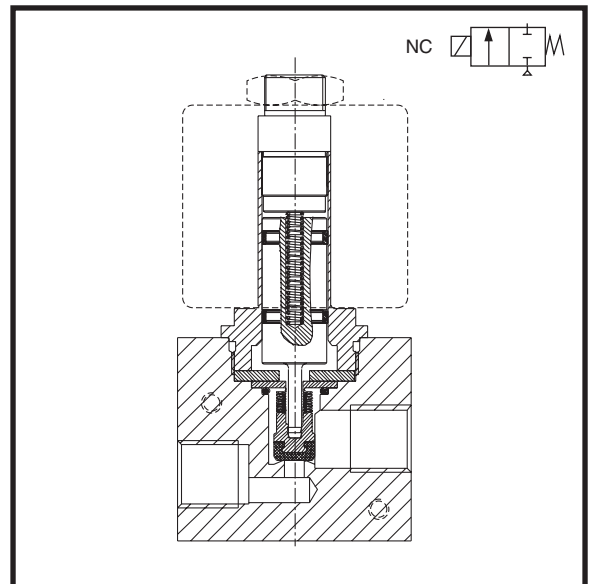
Valve Parts in Contact with Fluids	
Body	PEEK, (Stainless Steel - consult factory)
Seals	FFKM, (EPDM or FKM - consult factory)
Bellows	PTFE

### Electrical

Standard Voltage	24 VDC
Power Consumption	5 & 9 Watts
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 167°F (-10°C to 75°F)
Electrical Connection	Spade (DIN 46244, ISO 4400)
Protection Rating	IP65 with DIN Plug Connector

### Valve

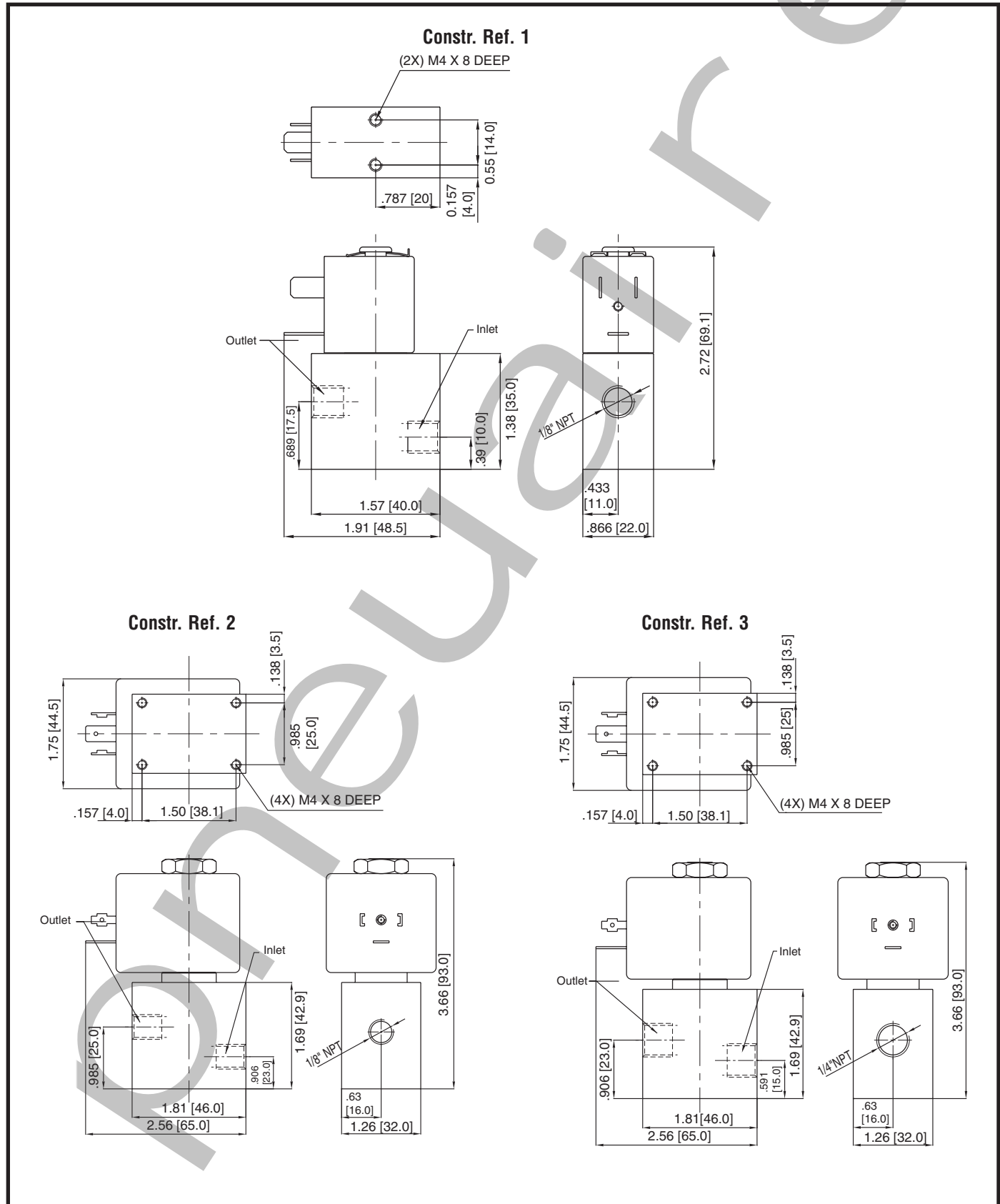
Fluid Temperature	14°F to 194°F (-10°C to 90°C)
Maximum Viscosity	40 cSt



### Specifications (English Units)

Ports	Orifice Size (ins.)	Cv Flow Factor	Differential Pressure (psi)			Catalog Number	Constr. Ref.	Power (Watts)	Weight (oz.)
			Min.	Max.					
				Gases	Liquids				
<b>PEEK body with DIN terminal coil</b>									
1/8 NPT	0.079	0.13	0	44	15	SC8296A004	1	5	11
1/8 NPT	0.079	0.13	0	87	73	SC8296A005	2	9	15
1/4 NPT	0.157	0.38	0	58	58	SC8296A006	3	9	15
<b>PEEK body, Coil with 18 inch lead wires</b>									
1/8 NPT	0.079	0.13	0	44	15	8296A004	1	5	11
1/8 NPT	0.079	0.13	0	87	73	8296A005	2	9	15
1/4 NPT	0.157	0.38	0	58	58	8296A006	3	9	15

Dimensions: inches [mm]



# ASCO SCIENTIFIC®

The Series 8396 is a 3 Way, high flow isolation valve designed to control the flow of aggressive liquids and gases in analytical, semiconductor, and environmental equipment. The Series 8396 offers the following benefits:

- Reliable operation with a wide variety of media due to inert wetted materials such as PEEK, PTFE, stainless steel, and FFKM.
- High flow rates of corrosive or high purity fluids.
- Higher pressure ratings than typical isolation valves.
- Reduced chance of seat leakage with soft FFKM disc.

## Construction

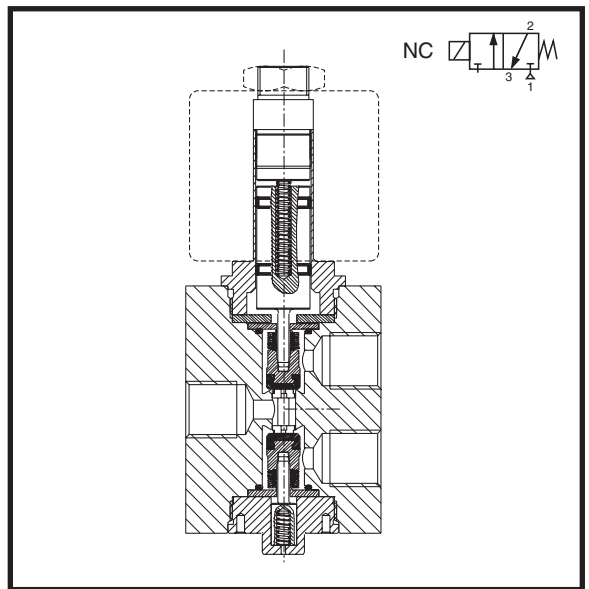
Valve Parts in Contact with Fluids	
Body	PEEK, (Stainless Steel - consult factory)
Seals	FFKM, (EPDM or FKM - consult factory)
Bellows	PTFE

## Electrical

Standard Voltage	24 VDC
Power Consumption	9 Watts
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 167°F (-10°C to 75°F)
Electrical Connection	Spade, (DIN 46244, ISO 4400)
Protection Rating	IP65 with DIN Plug Connector

## Valve

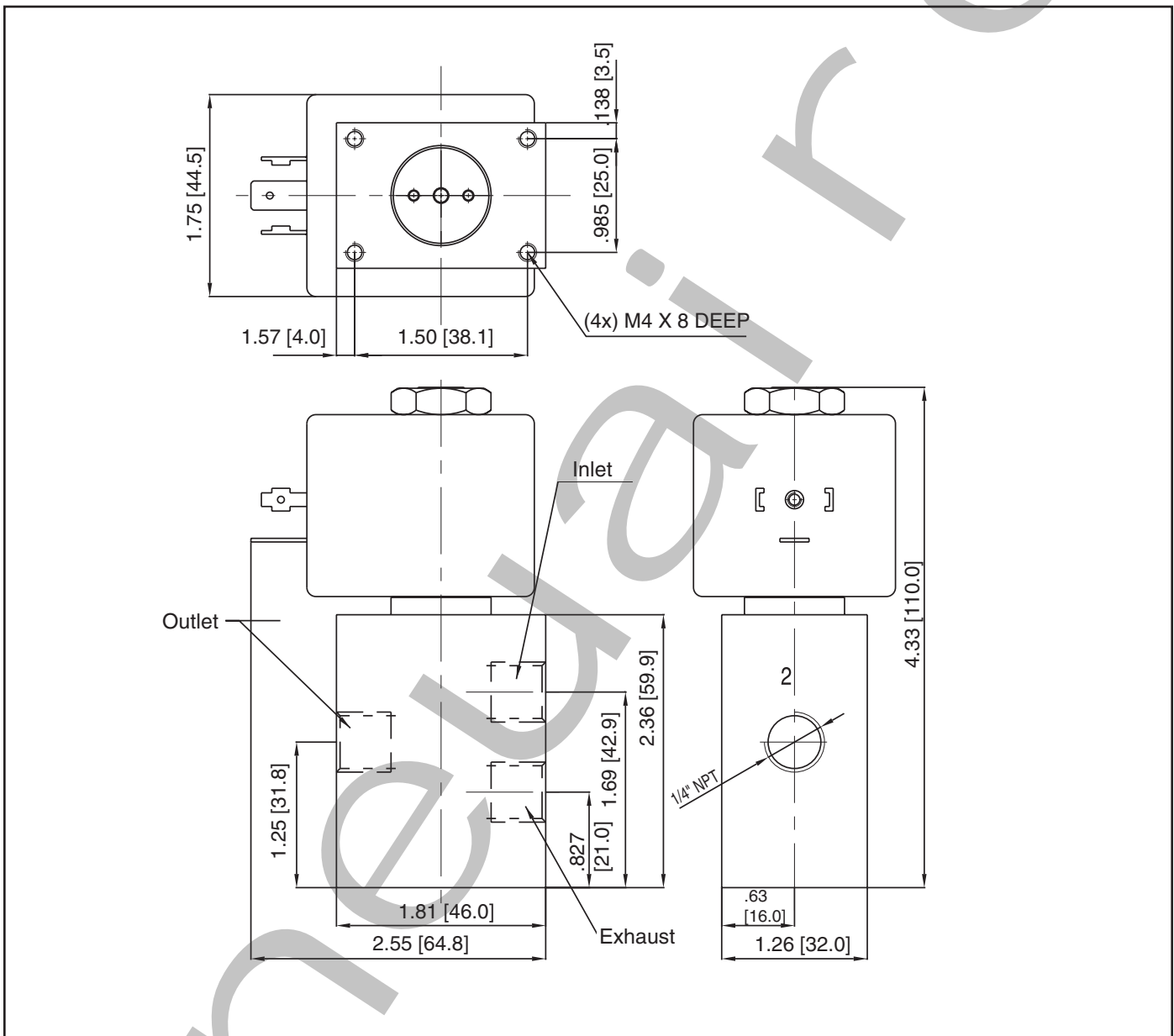
Fluid Temperature	14°F to 194°F (-10°C to 90°C)
Maximum Viscosity	40 cSt



## Specifications (English Units)

Ports	Orifice Size (ins.)	Cv Flow Factor	Differential Pressure (psi)			Catalog Number	Power (Watts)	Weight (oz.)
			Min.	Max.				
				Gases	Liquids			
<b>PEEK body with DIN terminal coil</b>								
1/4 NPT	0.157	0.31	0	44	44	SC8396A006	9	17
<b>PEEK body, Coil with 18 inch lead wires</b>								
1/4 NPT	0.157	0.31	0	44	44	8396A006	9	17

Dimensions: inches [mm]





The Series 282 are 2 Way, normally closed, high flow isolation valves designed to control the flow of aggressive liquids and gases in analytical instruments, clinical diagnostic analyzers, and bioinstrumentation. The Series 282 offers the following benefits:

- High flow rates for corrosive media service.
- Capable of handling a variety of media with several body and diaphragm material options.
- Reduced chance of seat leakage with resilient diaphragm materials.
- Removable/Rotatable coil for easy service and installation.

**Construction**

Valve Parts in Contact with Fluids	
Body	316 Stainless Steel or PVDF
Seals	PTFE, EPDM, FKM, or Silicone

**Electrical**

Standard Voltage	12, 24 VDC +10%, -5% 120/60 VAC (A003 only) +10%, -15%
Power Consumption	2.5, 6, 9 Watts
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Electrical Connection	DIN Spade Terminals
DIN Connectors ( not included with valve see page 75)	
SCE282A001	Size 9.4 mm, Form C
SCG282A003	Size 18 mm, Form A
SCG282A004	Size 11 mm, Form B
Protection Rating	IP65 with DIN Plug Connector

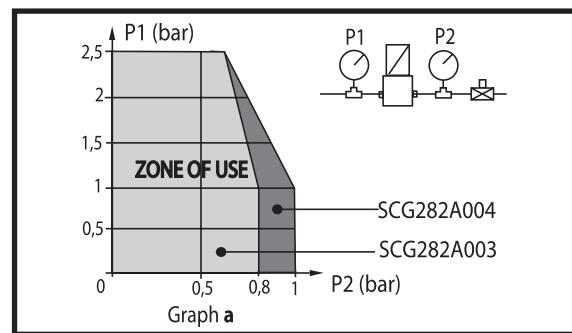
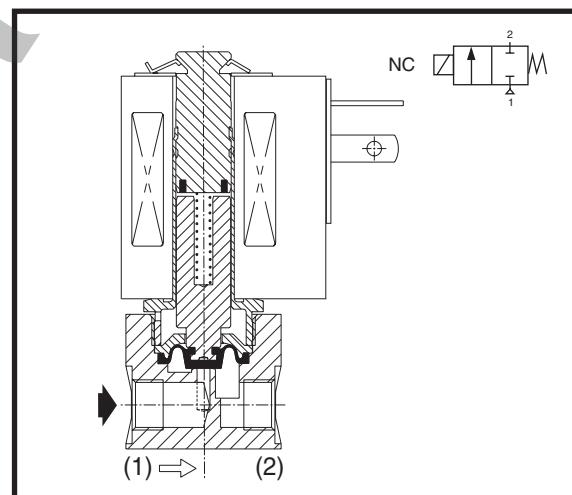
**Valve**

Fluid Temperature	14° F to 212° F (-10° C to 100° C)
Internal Volume	70 µL (SCE282A001)
Response Time	
SCE282A001	10 ms open or close
SCG282A002	20 ms open or close
SCG282A003	20 ms open or close
Maximum Viscosity	37 cSt

**Specifications**

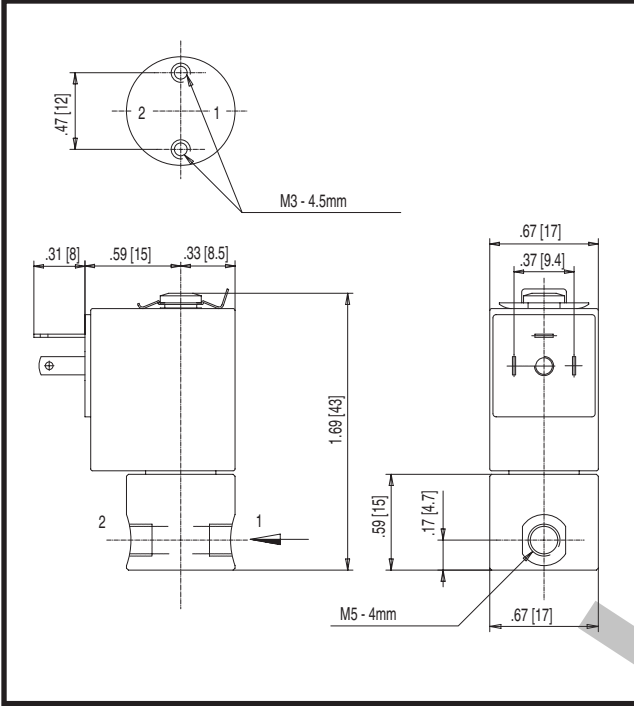
Ports	Orifice Size (ins.)	Cv Flow Factor	Differential Pressure (psi)			Catalog Number	Diaphragm Material	Constr. Ref.	Power (Watts)	Weight (oz.)
			Min.	Max.						
				Gases	Liquids					
<b>316 stainless steel body</b>										
M5	0.062	0.05	0	29	9	SCE282A001	Silicone	1	2.5	3
						SCE282A001E	EPDM			
						SCE282A001V	FKM			
G 1/8	0.079	0.1	0	-	36*	SCG282A004	PTFE	2	6	7
<b>PVDF body</b>										
G 1/8	0.157	0.38	0	36*	36*	SCG282A003	Silicone	3	9	8
						SCG282A003E	EPDM			
						SCG282A003V	FKM			

\* The maximum working pressure is a function of the combination of the inlet and outlet pressures. See graph (a) to determine maximum inlet pressure for a given outlet pressure.

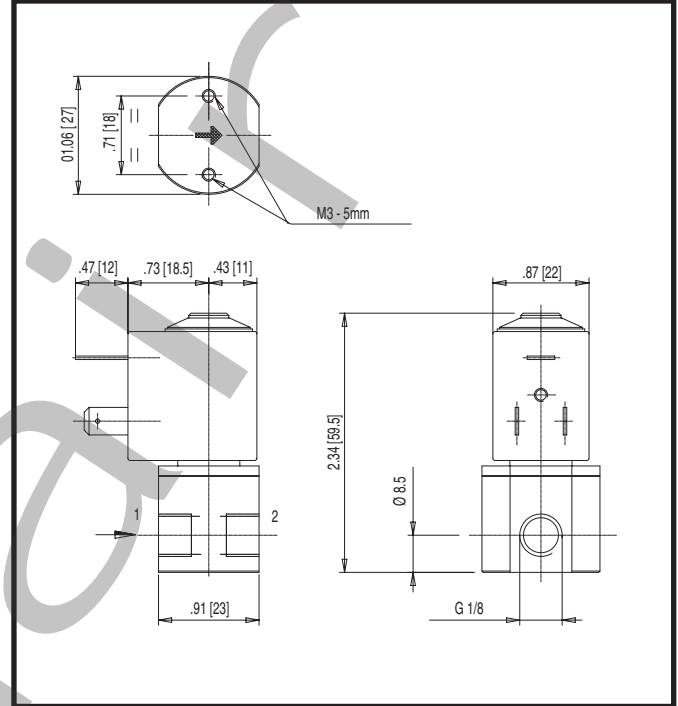


Dimensions: inches [mm]

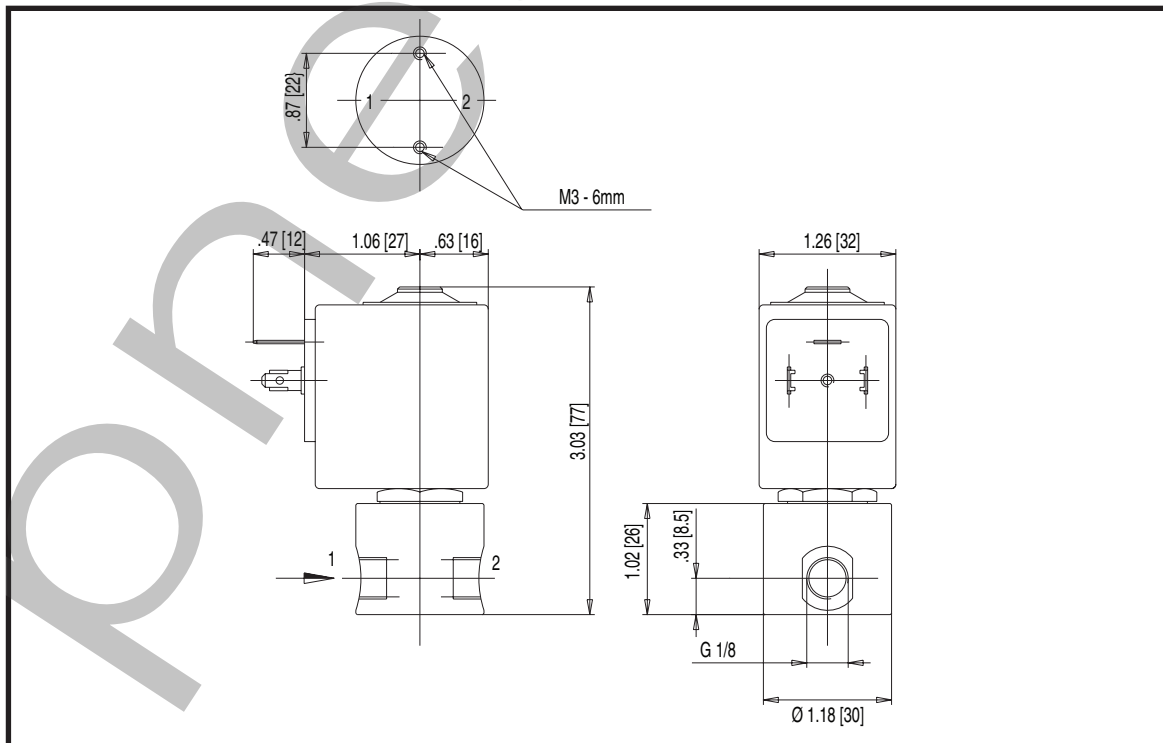
Constr. Ref. 1



Constr. Ref. 2



Constr. Ref. 3



# ASCO SCIENTIFIC®

The Series 282 are 2 Way, normally closed, high flow isolation valves designed to control the flow of aggressive liquids and gases in analytical instruments, clinical diagnostic analyzers, and bioinstrumentation. The Series 282 offers the following benefits:

- High flow rates for corrosive media service.
- Capable of handling a variety of media with several body and diaphragm material options.
- Reduced chance of seat leakage with resilient diaphragm materials.
- Removable/Rotatable coil for easy service and installation.

## Construction

Valve Parts in Contact with Fluids	
Body	Glass-Fiber-Reinforced PP
Seals	FKM

## Electrical

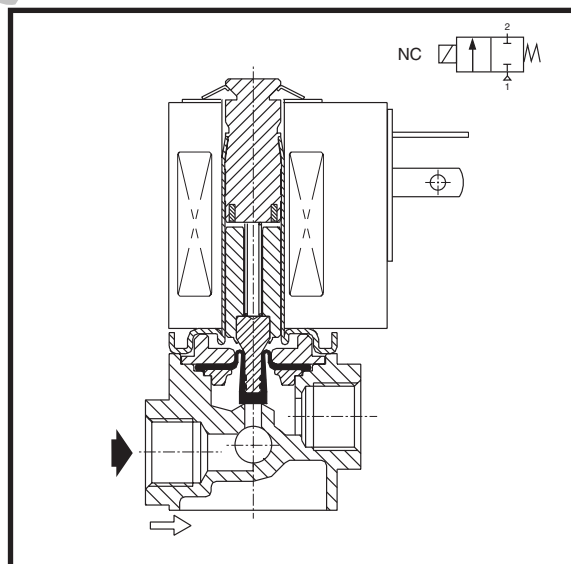
Standard Voltage	12, 24 VDC +10%, -5% 120/60 VAC +10%, -15%
Power Consumption	DC: 9 Watts AC: 8 Watts (23VA Inrush, 14VA Hold)
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Electrical Connection	DIN Spade Terminals
DIN Connectors	Size 18 mm, Form A (not included with valve, see page 75)
Protection Rating	IP65 with DIN Plug Connector

## Valve

Fluid Temperature	14° F to 212° F (-10° C to 100° C)
Response Time	20 ms open or close
Maximum Viscosity	37 cSt

## Specifications

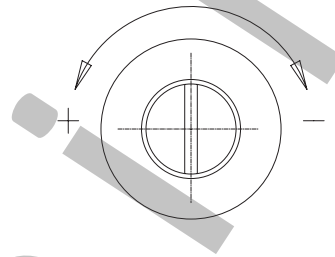
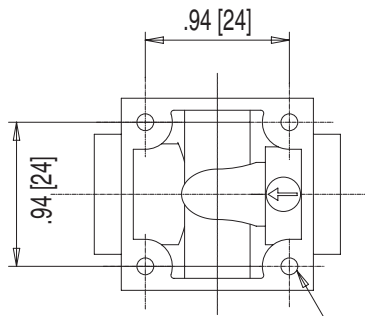
Ports	Orifice Size (inches)	Cv Flow Factor	Differential Pressure (psi)			Catalog Number	Diaphragm Material	Power (Watts)	Weight (oz.)
			Min.	Max.					
				Gases	Liquids				
G 1/4	0.177	0.54	0	14.5	14.5	SCG282A005	FKM	9.0	11



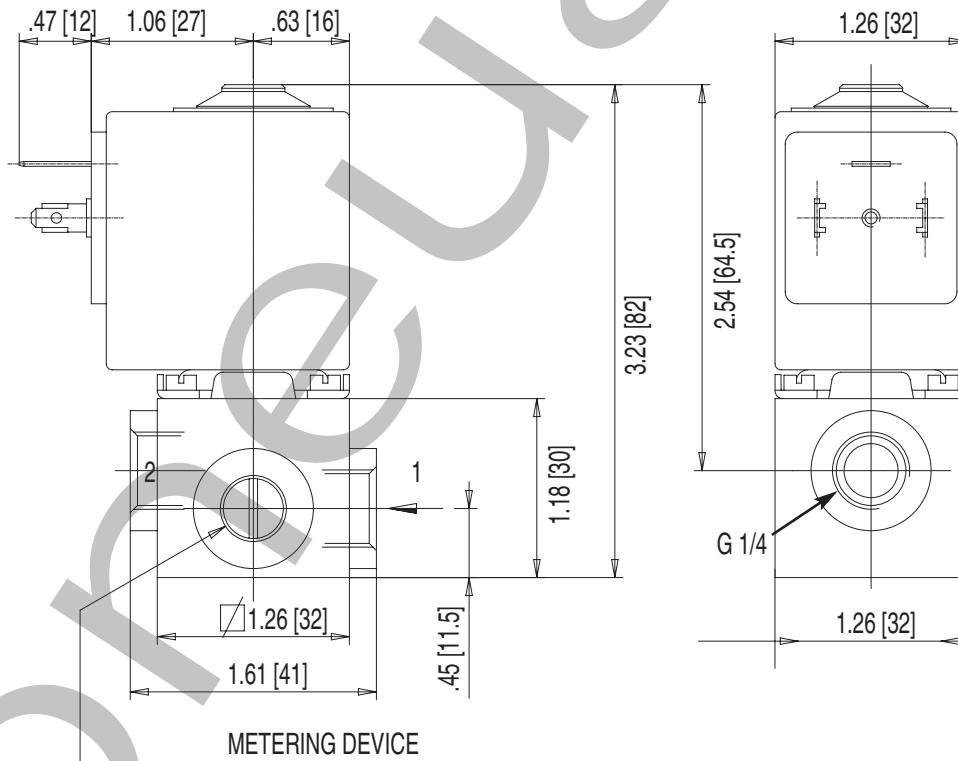


Dimensions: inches [mm]

Metering Device Flow Adjustment



NO 4 MOUNTING HOLES  $\phi$  2.8 x 10mm  
(USE ONLY THREAD - FORMING SCREW FOR PLASTICS)



PROTECTED BY PATENT

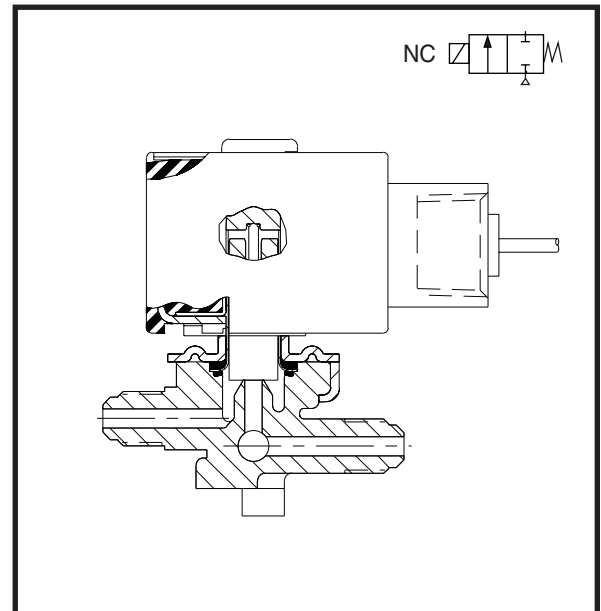
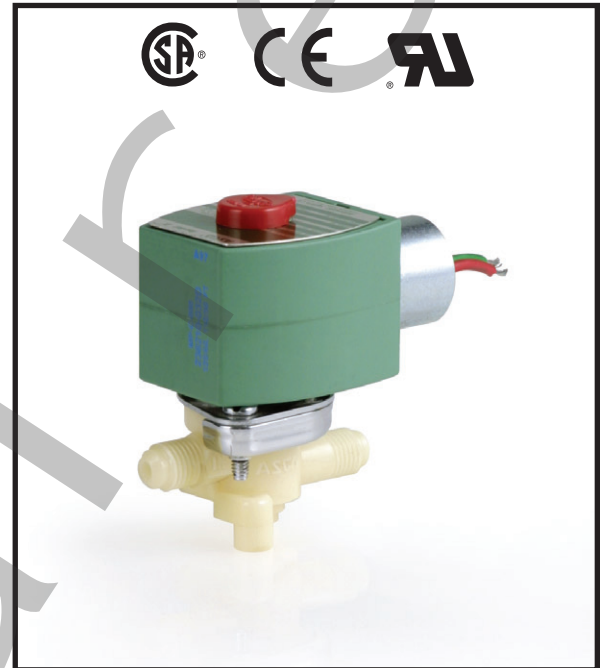


The 8260 Series is a 2 Way direct acting valve available in a Normally Closed construction. They are available AC or DC operated with plastic bodies and can handle the challenges of harsh media. There are many optional features available including solenoid enclosures, electrical connections, alternate elastomers and end connections. Dedicated constructions of the 8260 Series are suitable for the following applications:

- General Service (air, inert gas, water)
- Shielded Core

### Construction

Valve Parts in Contact with Fluids	
General Service	
Body	CA, PA, PP
Seals and Disc	NBR
Core Tube	305 Stainless Steel
Core and Plugnut	430F Stainless Steel
Springs	302 Stainless Steel
Shading Coil	Copper
Shielded Core	
Body	CA, PP
Disc and Diaphragm	EPDM



### Electrical

Standard Coil Class of Insulation	Watt Rating and Power Consumption				Ambient Temp. °F	Spare Coil Family	
	DC Watts	AC				General Purpose	
		Watts	VA Holding	VA Inrush		AC	DC
B	6.4	-	-	-	32 to 77	-	180555
B	-	6.5	9.2	17.3	32 to 104	174879	-
F	10.6	6.1	16	30	32 to 125	238210	238310

**Standard Voltages:** 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220 volts AC, 50 Hz). 6, 12, 24, 120, 240 volts DC. Must be specified when ordering. Other voltages available when required.

Specifications

Connections	Orifice Dia. (ins.)	Cv Flow	Operating Pressure Differential (psi)				Max. Fluid Temp. °F		Plastic	Const. Ref.	Agency		Wattage		Approx. Shipping Weight (lbs.)	
			Min.	Max. AC		Max. DC		AC			DC	UL	FM	AC		DC
				Air-Inert Gas	Water	Air-Inert Gas	Water									
<b>General Service - Normally Closed CA Body with Watertight Enclosure</b>																
1/4" Male Flare	9/64	0.35	0	120	120	50	50	130	120	8260G042	1	●	-	6.1	10.6	0.8
Bib for 1/4" ID tubing	9/64	0.35	0	120	120	50	50	130	120	8260G054	2	●	-	6.1	10.6	0.8
1/4" OD Compression ①	9/64	0.35	0	120	120	50	50	130	120	8260G071	3	●	-	6.1	10.6	0.8
<b>General Service - Normally Closed PP Body</b>																
1/4" OD Compression ①	1/16	0.09	0	150	150	60	60	130	120	USM8260 073	4	□	-	6.5	6.4	0.5
	3/32	0.19	0	100	100	20	20	130	120	USM8260 074	4	□	-	6.5	6.4	0.5
	1/8	0.31	0	60	60	10	10	130	120	USM8260 075	4	□	-	6.5	6.4	0.5
	5/32	0.43	0	35	35	5	5	130	120	USM8260 076	4	□	-	6.5	6.4	0.5
<b>General Service - Normally Closed PA Body</b>																
3/8" OD Compression ①	5/16	1.3	0	5	5	-	-	130	-	USM8260 089	5	□	-	6.5	-	0.5
<b>Dispensing Service - NSF listed - Normally Closed PP Body</b>																
1/4" OD Compression ①	1/16	0.09	0	150	150	60	60	130	120	USM8260 077	4	□	-	6.5	6.4	0.5
	3/32	0.19	0	100	100	20	20	130	120	USM8260 078	4	□	-	6.5	6.4	0.5
	1/8	0.31	0	60	60	10	10	130	120	USM8260 079	4	□	-	6.5	6.4	0.5
	5/32	0.43	0	35	35	5	5	130	120	USM8260 080	4	□	-	6.5	6.4	0.5
<b>Dispensing Service - NSF listed - Normally Closed PA Body</b>																
3/8" OD Compression ①	5/16	1.3	0	5	5	-	-	130	-	USM8260 090	5	□	-	6.5	-	0.5
<b>Shielded Core Valves - Normally Closed CA Body with Watertight Enclosure</b>																
Bib for 1/4" ID tubing	9/64	0.35	0	6	6	6	6	130	120	D8260G054E	2	-	-	6.1	10.6	0.8
1/4" OD Compression ①	9/64	0.35	0	6	6	6	6	130	120	D8260G071E	3	-	-	6.1	10.6	0.8
<b>Shielded Core Valves - Normally Closed PP Body</b>																
Bib for 1/4" ID tubing	9/64	0.35	0	6	6	6	6	130	120	D8260G053E	2	-	-	6.1	10.6	0.8
Bib for 1/4" ID tubing	3/16	0.53	0	6	6	6	6	130	120	D8260G056E	2	-	-	6.1	10.6	0.8

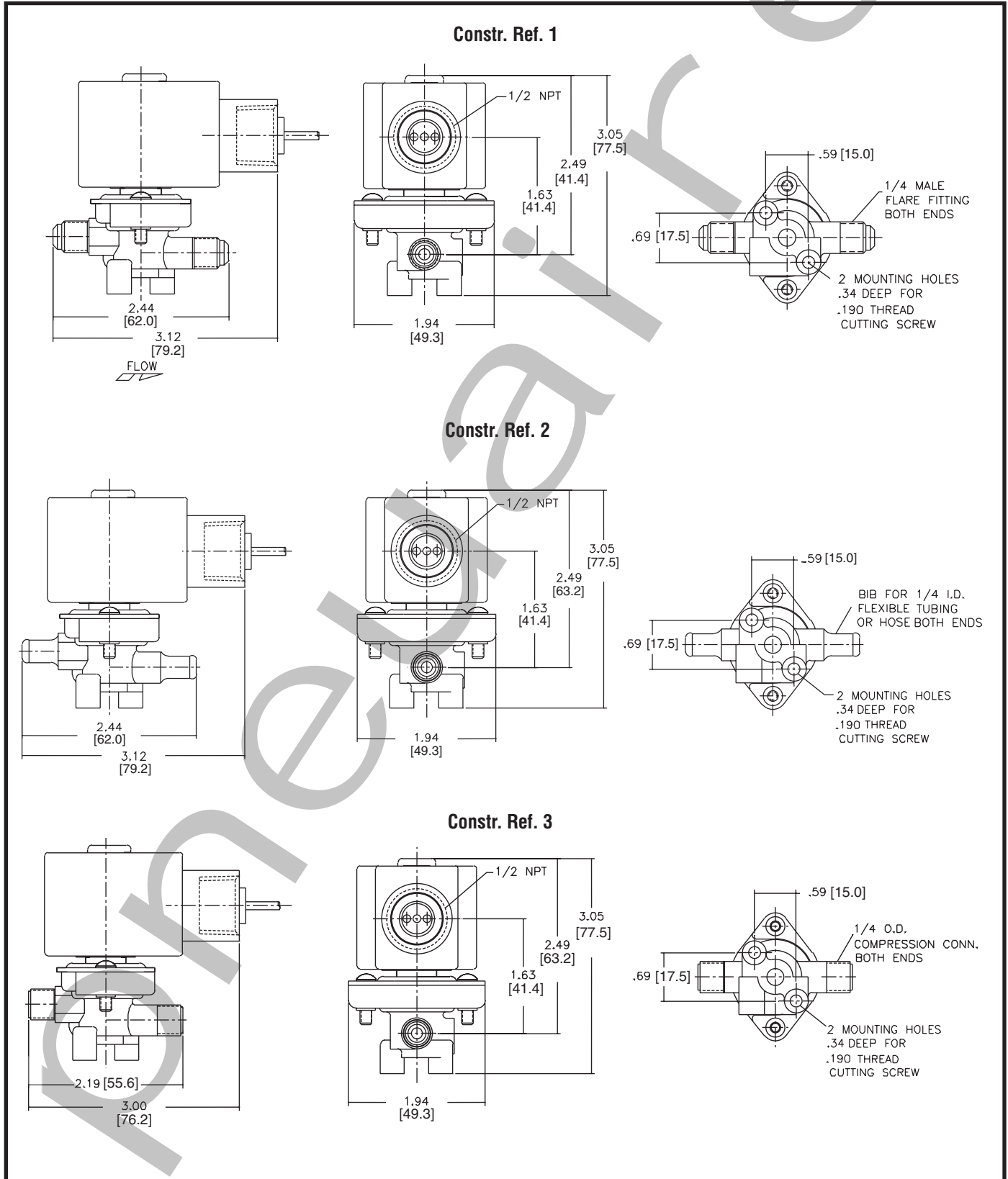
● = General Purpose Valve. □ = Component Solenoid; ① Fittings are not supplied with the valve. Contact ASCO for more information.

Capabilities Chart

Solenoid Options						Base Catalog Number	Resilient Materials								Other		Standard Rebuild Kit		
NEMA Type 3-9	High Temp.	Wiring Box Screw Terminal	Multipin	DIN	Spade	Open Frame with Leads	Plastic	NBR	FKM	EPDM	Neoprene	Oxygen Service	PTFE	Urethane	Vacuum	Metering	Mounting Bracket	AC	DC
-	HT	JKF	-	SC	OFSF	-	8260G042	●	V	-	-	-	-	-	-	M	-	302971	302977
-	HT	JKF	-	SC	OFSF	-	8260G054	●	V	-	-	-	-	-	-	M	-	302971	302977
-	HT	JKF	-	SC	OFSF	-	8260G071	●	V	-	-	-	-	-	-	M	-	302971	302977
-	-	JKP	-	-	JSP	-	USM8260 073	●	-	E	-	-	-	-	-	M	MB	302973	302979
-	-	JKP	-	-	JSP	-	USM8260 074	●	-	E	-	-	-	-	-	M	MB	302973	302979
-	-	JKP	-	-	JSP	-	USM8260 075	●	-	E	-	-	-	-	-	M	MB	302973	302979
-	-	JKP	-	-	JSP	-	USM8260 076	●	-	E	-	-	-	-	-	M	MB	302973	302979
-	-	JKP	-	-	JSP	-	USM8260 089	●	-	E	-	-	-	-	-	M	MB	302972	302978
-	-	JKP	-	-	JSP	-	USM8260 077	●	-	E	-	-	-	-	-	M	MB	302972	302978
-	-	JKP	-	-	JSP	-	USM8260 078	●	-	E	-	-	-	-	-	M	MB	302972	302978
-	-	JKP	-	-	JSP	-	USM8260 079	●	-	E	-	-	-	-	-	M	MB	302972	302978
-	-	JKP	-	-	JSP	-	USM8260 080	●	-	E	-	-	-	-	-	M	MB	302972	302978
-	-	JKP	-	-	JSP	-	USM8260 090	●	-	E	-	-	-	-	-	M	-	302974	-
-	HT	JKF	-	SC	OFSF	-	D8260G054E	-	V	●	-	-	-	-	-	M	-	302996	304002
-	HT	JKF	-	SC	OFSF	-	D8260G071E	-	V	●	-	-	-	-	-	M	-	302996	306676
-	HT	JKF	-	SC	OFSF	-	D8260G053E	-	V	●	-	-	-	-	-	M	-	302997	304003
-	HT	JKF	-	SC	OFSF	-	D8260G056E	-	V	●	-	-	-	-	-	M	-	302998	304004

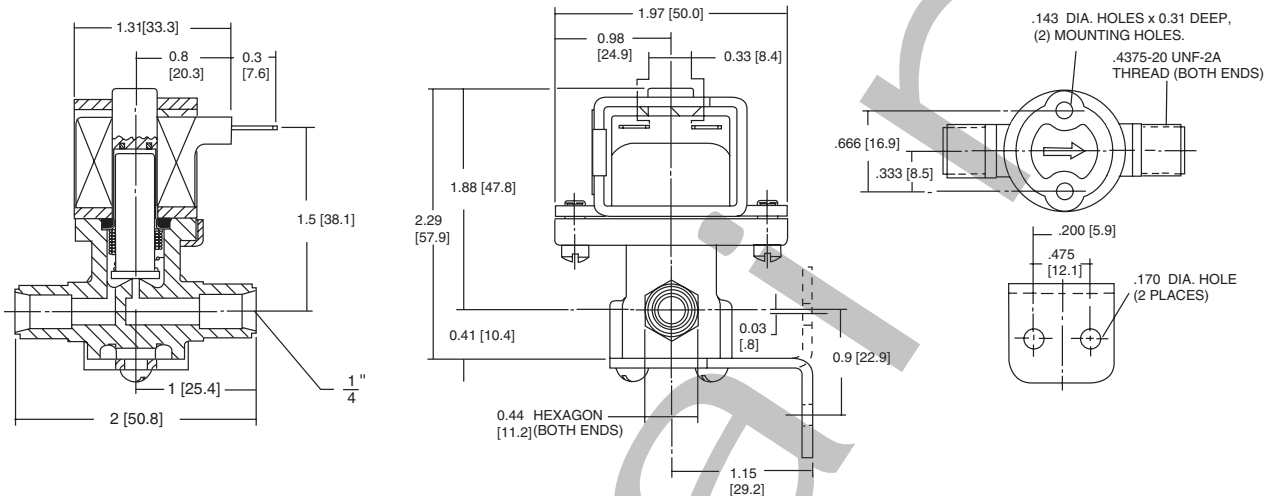
● = Standard

Dimensions: inches [mm]

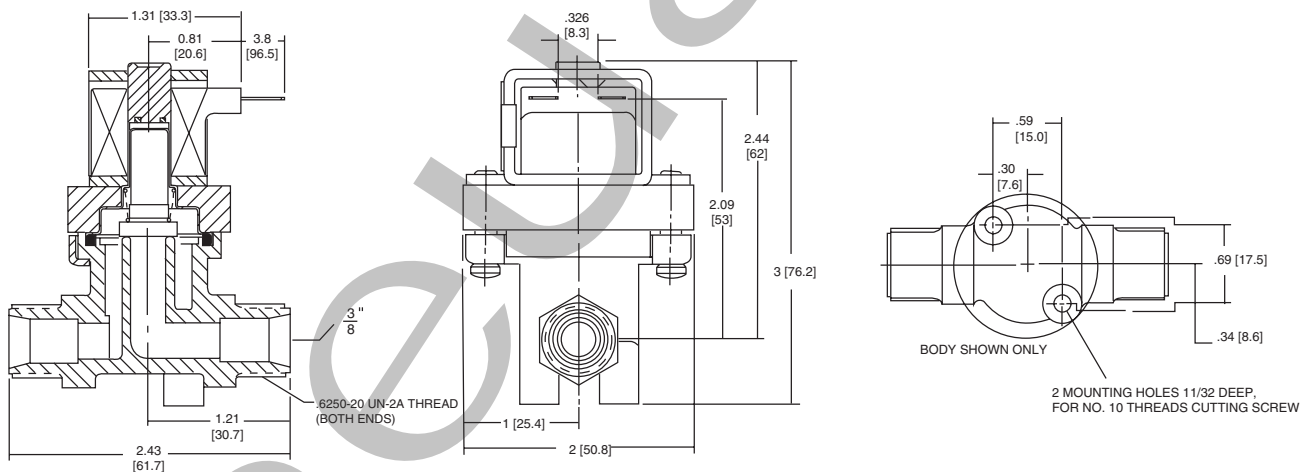


Dimensions: inches [mm]

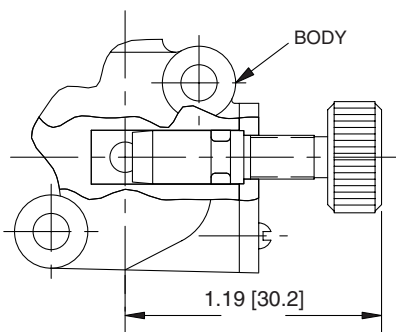
Constr. Ref. 4



Constr. Ref. 5



OPTIONAL METERING DEVICE



FORN

# ASCO SCIENTIFIC®

The Series 283 are 2 Way, normally closed and normally open, high flow isolation valves designed to control the flow of aggressive liquids and gases in analytical instruments, clinical diagnostic analyzers, and bioinstrumentation. The unique lever design of the Series 283 isolates the media from the solenoid components offering the following benefits:

- High flow rates for corrosive media service.
- Better at handling media with small particulate than standard isolation valves.
- Higher operating pressures.
- Capable of handling a variety of media with several body and diaphragm material options.
- Reduced chance of seat leakage with resilient diaphragm materials.
- Removable/Rotatable coil for easy service and installation.

## Construction

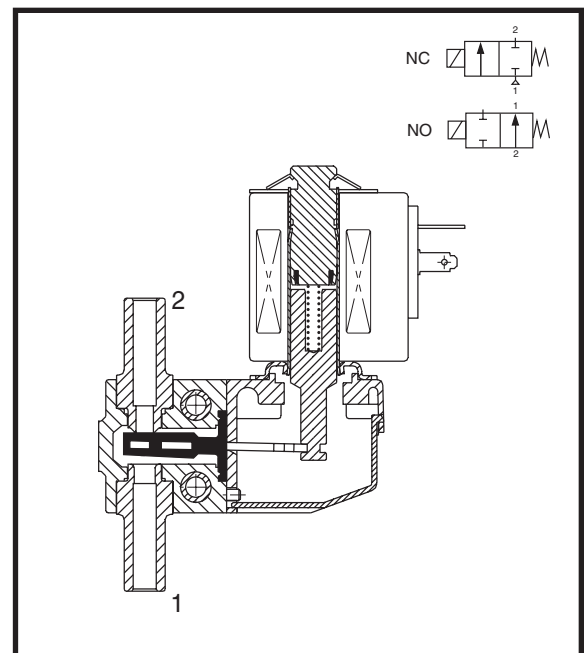
Valve Parts in Contact with Fluids	
Body	PEI (Polyetherimide)
Seals	FKM, EPDM, VMQ(Silicone), SBR(Styrolbutadiene)

## Electrical

Standard Voltage	12, 24 VDC +10%, -5% 120/60 VAC +10%, -15%
Power Consumption -DC -AC	6, 9 Watts 6W Coil = 16 VA Inrush, 10 VA Hold 9W Coil = 23 VA Inrush, 14 VA Hold
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Electrical Connection	DIN Spade Terminals
DIN Connectors (not included with valve, see page 75)	
- 6 Watt Coil	Size 11 mm, Form B
- 9 Watt Coil	Size 18 mm, Form A
Protection Rating	IP65 with DIN Plug Connector

## Valve

Fluid Temperature	14° F to 212° F (-10° C to 100° C)
Response Time	25 ms open or close
Maximum Viscosity	37 cSt
Port Connections	<ul style="list-style-type: none"> <li>• Slip-on for 1/4" or 3/8" I.D. soft tubing</li> <li>• .31" O.D. spigot – 1/4" I.D. tubing</li> <li>• .43" O.D. spigot – 3/8" I.D. tubing</li> </ul>









The Series 283 are 2 Way, normally closed and normally open, high flow isolation valves designed to control the flow of aggressive liquids and gases in analytical instruments, clinical diagnostic analyzers, and bioinstrumentation. The unique lever design of the Series 283 isolates the media from the solenoid components offering the following benefits:

- High flow rates for corrosive media service.
- Better at handling media with small particulate than standard isolation valves.
- Higher operating pressures.
- Capable of handling a variety of media with several body and diaphragm material options.
- Reduced chance of seat leakage with resilient diaphragm materials.
- Removable/Rotatable coil for easy service and installation.

**Construction**

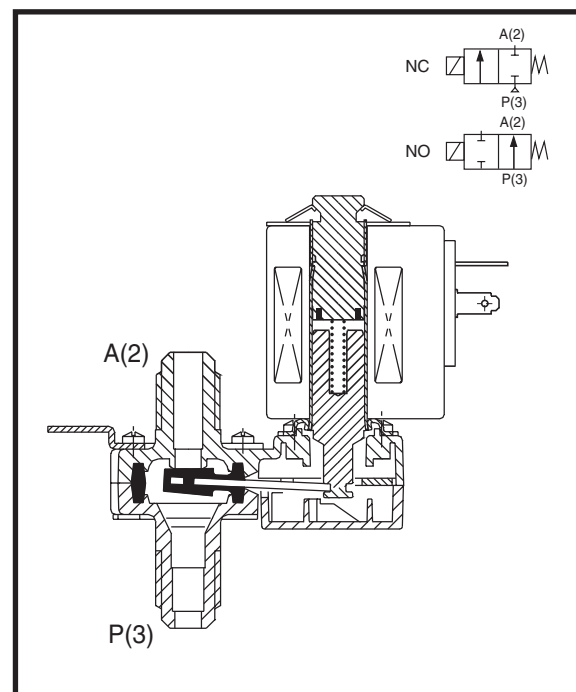
Valve Parts in Contact with Fluids	
<b>Body</b>	G1/4: PEI (Polyetherimide) G1/2: PPS (Polyphenylene sulphide)
<b>Seals</b>	FKM, EPDM, VMQ(Silicone), SBR(Styrolbutadiene)

**Electrical**

<b>Standard Voltage</b>	12, 24 VDC +10%, -5% 120/60 VAC +10%, -15%
<b>Power Consumption</b> -DC -AC	9, 13 Watts 9W Coil = 23 VA Inrush, 14 VA Hold 13W Coil = 44 VA Inrush, 24 VA Hold
<b>Duty Cycle Rating</b>	Continuous
<b>Coil Insulation</b>	Class F
<b>Ambient Temperature</b>	14°F to 140°F (-10°C to 60°C)
<b>Electrical Connection</b>	DIN Spade Terminals
<b>DIN Connectors (not included with valve, see page 75)</b>	
- 6 Watt Coil	Size 11 mm, Form B
- 9 Watt Coil	Size 18 mm, Form A
<b>Protection Rating</b>	IP65 with DIN Plug Connector

**Valve**

<b>Fluid Temperature</b>	G 1/4: 14° F to 212° F (-10° C to 100° C) G 1/4: 14° F to 194° F (-10° C to 90° C)
<b>Response Time</b>	G 1/4: 25 ms open or close G 1/2: 30 ms open or close
<b>Maximum Viscosity</b>	37 cSt
<b>Port Connections</b>	Male threaded flare port for use with female flare adapters.



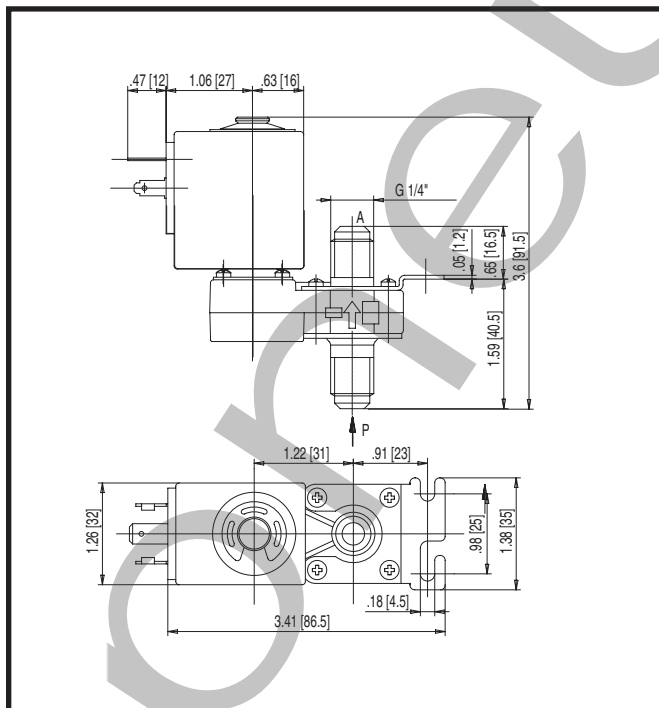


Specifications

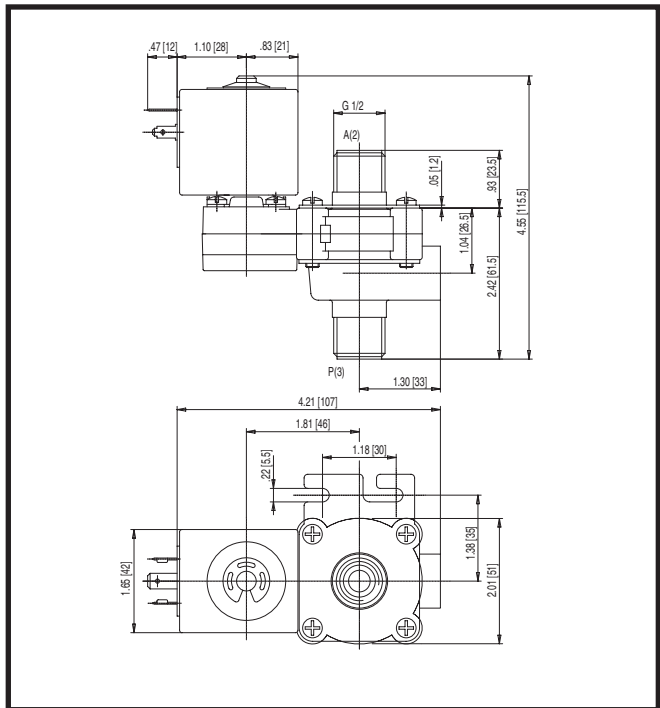
Port Size G=ISO 228	Orifice Size (inches)	CV Flow	Differential Pressure (psi)				Catalog Number	Diaphragm Material	Constr. Ref. No.	Power (Watts)	Weight (oz.)	
			Min.	Max. AC		Max. DC						
				Gases	Liquids	Gases						Liquids
<b>NORMALLY CLOSED</b>												
1/4	0.13	0.35	0	145	145	35	35	SCG283A011	SBR	1	9	9
1/4	0.13	0.35	0	145	145	35	35	SCG283A011E	EPDM	1	9	9
1/4	0.13	0.35	0	145	145	35	35	SCG283A011V	FKM	1	9	9
1/4	0.22	0.64	0	65	65	15	15	SCG283A012	SBR	1	9	9
1/4	0.22	0.64	0	65	65	15	15	SCG283A012E	EPDM	1	9	9
1/4	0.22	0.64	0	65	65	15	25	SCG283A012V	FKM	1	9	9
1/4	0.13	0.35	0	22	22	22	22	SCG283A013	Silicone	1	9	9
1/4	0.22	0.64	0	22	22	15	15	SCG283A014	Silicone	1	9	9
1/2	0.39	1.87	0	23	23	4	4	SCG283B006	SBR	2	13	19
1/2	0.39	1.87	0	23	23	4	4	SCG283B006E	EPDM	2	13	19
1/2	0.39	1.87	0	23	23	4	4	SCG283B006V	FKM	2	13	19
<b>NORMALLY OPEN</b>												
1/4	0.22	0.64	0	13	13	3	3	SCG283A020V	FKM	1	9	9

Dimensions: inches [mm]

Constr. Ref. 1



Constr. Ref. 2



# ASCO SCIENTIFIC®

The Series 383 are 3 Way, normally closed, normally open and universal, high flow isolation valves designed to control the flow of aggressive liquids and gases in analytical instruments, clinical diagnostic analyzers, and bioinstrumentation. The unique lever design of the Series 383 isolates the media from the solenoid components offering the following benefits:

- High flow rates for corrosive media service.
- Better at handling media with small particulate than standard isolation valves.
- Higher operating pressures.
- Capable of handling a variety of media with several body and diaphragm material options.
- Reduced chance of seat leakage with resilient diaphragm materials.
- Removable/Rotatable coil for easy service and installation.

## Construction

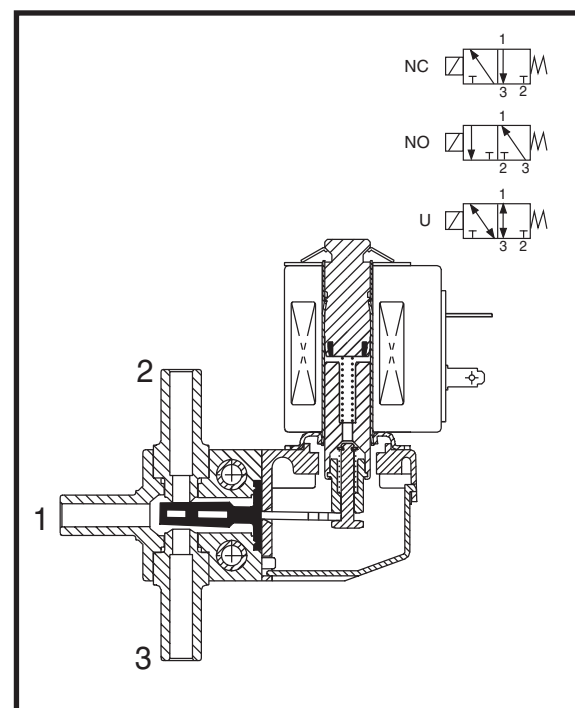
Valve Parts in Contact with Fluids	
Body	PEI (Polyetherimide)
Seals	FKM, EPDM, VMQ(Silicone)

## Electrical

Standard Voltage	12, 24 VDC +10%, -5% 120/60 VAC +10%, -15%
Power Consumption -DC -AC	6, 9 Watts 6W Coil = 16 VA Inrush, 10 VA Hold 9W Coil = 23 VA Inrush, 14 VA Hold
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Electrical Connection	DIN Spade Terminals
<b>DIN Connectors ( not included with valve. See page 75)</b>	
- 6 Watt Coil	Size 11 mm, Form B
- 9 Watt Coil	Size 18 mm, Form A
Protection Rating	IP65 with DIN Plug Connector

## Valve

Fluid Temperature	14° F to 212° F (-10° C to 100° C)
Response Time	25 ms open or close
Maximum Viscosity	37 cSt
Port Connections	<ul style="list-style-type: none"> <li>• Slip-on for 1/4" or 3/8" I.D. soft tubing</li> <li>• .31" O.D. spigot – 1/4" I.D. tubing</li> <li>• .43" O.D. spigot – 3/8" I.D. tubing</li> </ul>

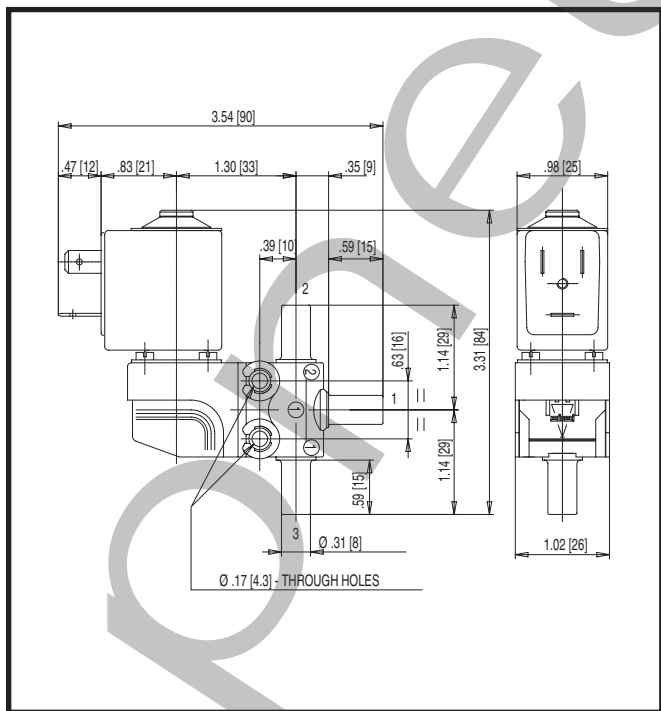


Specifications

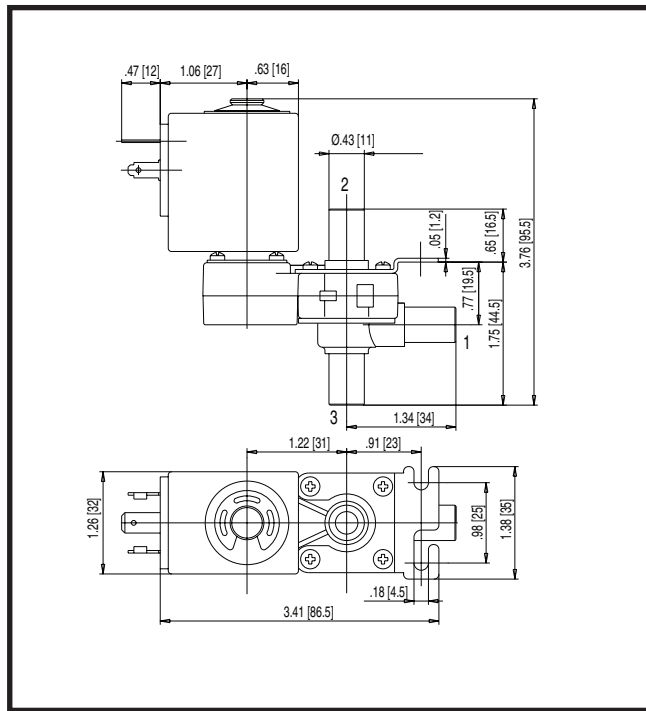
Spigot OD (Inches)	Spigot ID (Inches)	CV Flow	Differential Pressure (psi)				Catalog Number	Diaphragm Material	Construction Reference	Power (Watts)	Weight (oz.)	
			Min.	Max. AC		Max. DC						
				Gases	Liquids	Gases						Liquids
<b>NORMALLY CLOSED</b>												
0.31	0.13		0	15	15	15	15	SCH383A003	Silicone	1	6	7
0.31	0.13	0.35	0	15	15	15	15	SCH383A003E	EPDM	1	6	7
0.31	0.13	0.35	0	15	15	15	15	SCH383A003V	FKM	1	6	7
<b>NORMALLY OPEN</b>												
0.31	0.13	0.35	0	36	36	29	29	SCH383A004E	EPDM	1	6	7
0.31	0.13	0.35	0	36	36	29	29	SCH383A004V	FKM	1	6	7
<b>UNIVERSAL</b>												
0.43	0.13	0.35	0	22	22	22	22	SCH383A007	Silicone	2	9	12
0.43	0.13	0.35	0	22	22	22	22	SCH383A007E	EPDM	2	9	12
0.43	0.13	0.35	0	22	22	22	22	SCH383A007V	FKM	2	9	12

Dimensions: inches [mm]

Constr. Ref. 1



Constr. Ref. 2



# ASCO SCIENTIFIC®

The Series 383 are 3 Way, normally closed, normally open and universal, high flow isolation valves designed to control the flow of aggressive liquids and gases in analytical instruments, clinical diagnostic analyzers, and bioinstrumentation. The unique lever design of the Series 383 isolates the media from the solenoid components offering the following benefits:

- High flow rates for corrosive media service.
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- Higher operating pressures.
- Capable of handling a variety of media with several body and diaphragm material options.
- Reduced chance of seat leakage with resilient diaphragm materials.
- Removable/Rotatable coil for easy service and installation.

## Construction

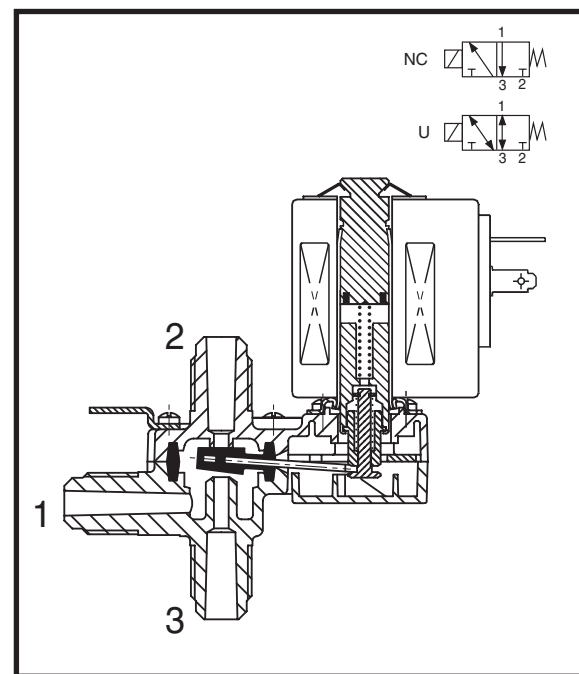
Valve Parts in Contact with Fluids	
Body	G1/4: PEI (Polyetherimide) G1/2: PPS (Polyphenylene sulphide)
Seals	FKM, EPDM, VMQ(Silicone)

## Electrical

Standard Voltage	12, 24 VDC +10%, -5% 120/60 VAC +10%, -15%
Power Consumption -DC -AC	9, 13 Watts 9W Coil = 23 VA Inrush, 14 VA Hold 13W Coil = 44 VA Inrush, 24 VA Hold
Duty Cycle Rating	Continuous
Coil Insulation	Class F
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Electrical Connection	DIN Spade Terminals
<b>DIN Connectors ( not included with valve. See page 75)</b>	
- 9 Watt Coil	Size 18 mm, Form B
- 13 Watt Coil	Size 18 mm, Form A
Protection Rating	IP65 with DIN Plug Connector

## Valve

Fluid Temperature	G 1/4: 14° F to 212° F (-10° C to 100° C) G 1/2: 14° F to 194° F (-10° C to 90° C)
Response Time	G 1/4: 25 ms open or close G 1/2: 30 ms open or close
Maximum Viscosity	37 cSt
Port Connections	Male threaded flare port for use with female flare adapters.

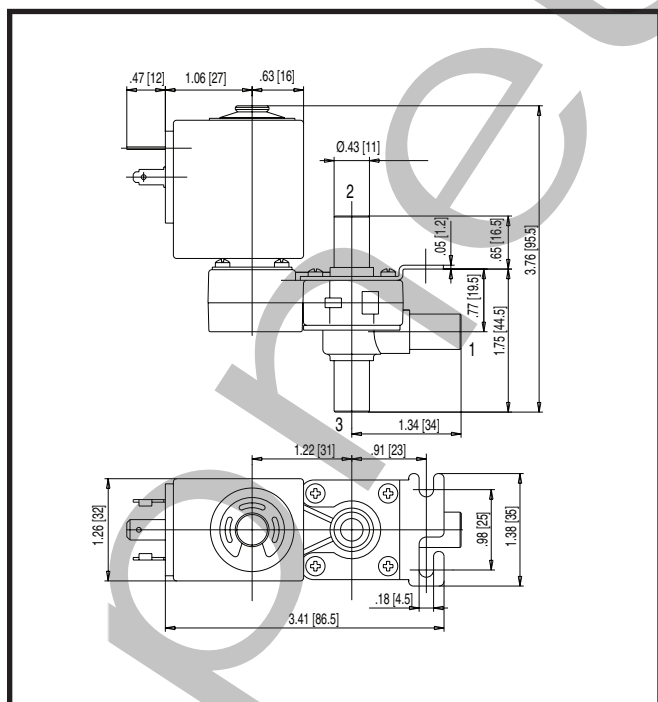


Specifications

Port Size G-ISO 228	Orifice Size (inches)	CV Flow	Differential Pressure (psi)				Catalog Number	Diaphragm Material	Construction Ref. No.	Power (Watts)	Weight (oz.)	
			Min.	Max. AC		Max. DC						
				Gases	Liquids	Gases						Liquids
<b>UNIVERSAL</b>												
1/4	0.13	0.33	0	22	22	22	22	SCG383A008	Silicone	1	9	12
1/4	0.13	0.33	0	22	22	22	22	SCG383A008E	EPDM	1	9	12
1/4	0.13	0.33	0	22	22	22	22	SCG383A008V	FKM	1	9	12
<b>NORMALLY CLOSED</b>												
1/4	0.22	1.87	0	6	6	3	3	SCG383B006	FKM	2	13	18

Dimensions: inches [mm]

Constr. Ref. 1



Constr. Ref. 2

