# ASCO™ Solenoid Valves

3 way, NC, Direct Operated, Pad Mounting Body

### **Features & Benefits**

- Wide range of flow and pressure ratings
- Quick disassembly of core tube for easy maintenance of internal parts
- Standard disc seal made of RUBY, FPM suitable for a wide range of operating temperatures and compatible with many fluids
- Standard manual operator allows an easy installation (stainless steel version only)
- UL429 and EN 60335 certified
- NSF 169 and EC 1935 / 2004 certified see "15-DIGIT PRODUCT CODE"
  Designed for sub-base mounting or directly on the equipment
- Solenoid valve with stainless steel seat, suitable for overheated water and steam
- The solenoid valves satisfy all relevant EU and EAC directives

#### General

Differential pressure See «SPECIFICATIONS» [1 bar = 100 kPa]

Ambient temperature range -10°C to +60°C (14°F to 140°F)

Maximum viscosity 40 cSt (mm<sup>2</sup>/s) 10 - 30 ms Response time

fluids (*)	temperature range (TS) (1)	seal materials (∗)
air, inert gas, water, oil	-10°C to +170°C (14°F to 338°F)	RUBY
hot water and steam	0°C to +130°C (32°F to 266°F)	FPM (fluoroelastomer)

### Materials in contact with fluid

(\*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body Brass or stainless steel, AISI 316

Shading coil Copper Core tube Stainless steel Core and plugnut Stainless steel Stainless steel Springs Seal **RUBY or FPM** 

#### Electrical characteristics

**Coil insulation class** F (H - approval pending) Spade plug (cable Ø 6-10 mm) Connector **Connector specification** ISO 4400 / EN 175301-803, form A

Electrical safety **IEC 335** 

**Electrical enclosure protection** Moulded IP67 (EN 60529) with plug-connector

DC (=): 12 - 24V (+10% -5%) Standard voltages

AC (~): 24V/50-60 Hz - 110V/50 Hz (120 V/60Hz) (Other voltages and

frequencies on request) 230V/50-60 Hz (+10% -5%)

operator		power r	replacement coil							
ambient temperature	hold	ling	hot/cold	,	-	=	Туре			
range (TS)	_	-	=	120 V/60 Hz,	230 V	24 V DC	турс			
°C (°F)	(VA)	(W)	(W)	110 V/50 Hz	/50-60 Hz	24 V DC				
-10 to +60 (14 to 140)	14	9	9	533593-020	533593-003	533593-002	01			

### Options

• NSF 169, EC 1935 / 2004 approval,

FPM/RUBY disc and seals (Food Grade)
The use of rigid sealings (RUBY) with gaseous fluids implies a slight leakage, generally limited at 2 scc/min at 1 bar pressure (0.002 l/min).

(\*) Ensure that the compatibility of the fluids in contact with the materials is verified.

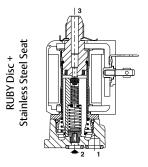
(1) The minimum ambient temperature of the solenoid valve is determined by the limitations of minimum temperature indicated.

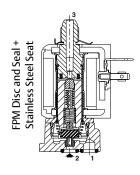


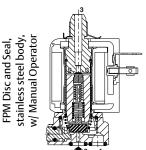












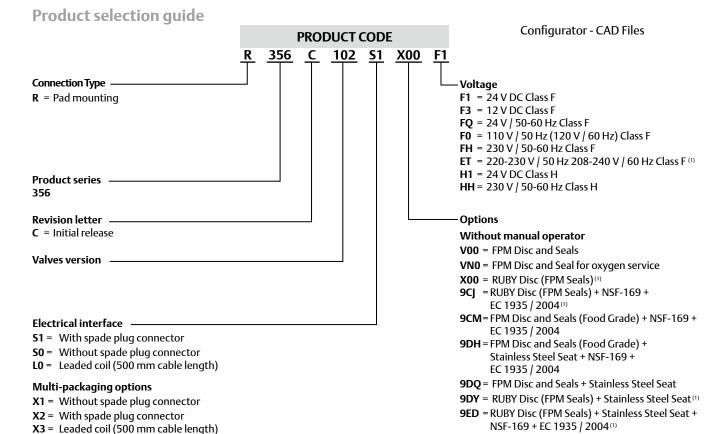
Spe	cific	atior	<b>IS</b> (1)													15-DIGIT PR	ODU	ст со	DE				
	a	fla	w			opera di	iting   iffere	oressu ntial	ıre		ļio						<u> </u>	ions	<u> </u>	/oltag	je co	ode	:
	orifice size	coeff	icient		ı		bar (p	si)			power coil	<u>§</u>		_			nual	_	ZH C	z Hz)	HZ		
	0 %	K	(V			(*)	max	. (PS) er (*)	o:l	(*)	bow	_		ions	brass	stainless steel	r na	anu.	9-0	0 H7	9-		
	mm	m³/h	a	ے ا	all	<u>, , , , , , , , , , , , , , , , , , , </u>	wate	Ė		<del>`                                    </del>			thread type	dimensions / type <sup>(2)</sup>			without manual operator	with manual operator	230 V/50-60 Hz	110 V/50 Hz (120 V / 60 Hz)	24 V/50-60 Hz	12 V/DC	24 V/DC
	(in)	(Cv)	(l/min)	_		=		=	_~	=	_~	=	threa type	돌			wit	wit op	73(	2 2	24	12	24
		_	losed,					= (2)															
	BY dis	c (FPIV	l seals)	), SI	tainle	ess ste	eel se	eat (3)										l			$\overline{}$		$\blacksquare$
pad mounting	1.5 (1/16)	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	R356C118S1	-	9DY	-	FH	F0	FQ	F3	F1
RU	BY dis	c (FPN	l seals)	) , s	tainle	ess st	eel s	eat, N	ISF-1	69, E	C 19	35   2	2004	(3)									
pad mounting	1.5 (1/16)	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	R356C118S1	-	9ED	-	FH	F0	FQ	F3	F1
FPI	VI disc	and s	eals, st	ain	iless s	steel	seat	(3)															
pad mounting	1.6 (1/16)	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	R356C119S1	-	9DQ	-	FH	F0	FQ	F3	F1
FPI	VI disc	and s	eals (Fo	000	Grad	de), s	tainl	ess st	eel s	eat, N	ISF-1	69, I	EC 19	35	2004 (3)								
pad mounting	1.6 (1/16)	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	R356C119S1	-	9DH	-	FH	F0	FQ	F3	F1
		_	losed,		ainles	ss ste	el bo	dy															
RU	BY dis	c (FPN	l seals)	(3)																		$\equiv$	
pad mounting	1.5 (1/16)	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	-	R356C126S1	X00	-	FH	F0	FQ	F3	F1
RU	BY dis	c (FPN	l seals)	), N	SF-16	59, EC	193	5 / 20	04 (3)	)													
pad mounting	1	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	-	R356C126S1	9CJ	-	FH	F0	FQ	F3	F1
FPI	VI disc	and s	eals (3)																			_	
pad mounting	1.6 (1/16)	0.08 (0.09)	1.33	0	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	13 (189)	9	9	R	01	-	R356C127S1	V00	-	FH	F0	FQ	F3	F1

ASCO

<sup>(1)</sup> All performances are referred to Ambient Temperature = +60°C
(2) For dimensions, see drawing(s) for each construction type on the following page(s)
(3) Steam: RUBY Sealing PS max. 8 bar (max. temperature of fluid 170°C)
. FPM Sealing PS max. 2.8 bar (max. temperature of fluid 130°C)

<sup>(\*)</sup> Ensure that the compatibility of the fluids in contact with the materials is verified.

### ASCO™ Solenoid Valves



 $^{\mbox{\tiny (1)}}$  To obtain the correct pressure rating and power absorption check the landing pages of the online configurator.

Operating Voltage Range (+10% -10%).

Repair Ries and Service Lares Spare Lares Ries	Repair Ki	ts and Servi	ce Parts - S	Spare Pa	arts Kits
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				Spare parts l	kits no. (*)								
		FPM Disc and Seals	ı	ı	1	1	1						
NC - Normally closed - AC (~)													
R356C119/127	M200706	V00	-	-	-	-	-	-					
NC - Normally closed - DC (=)													
R356C119/127	M200708	V00	-	-	-	-	-	-					
		FPM Disc and Seals (Food Grade) + NSF + EC 1935 / 2004 + Stainless Steel Seat	RUBY Disc (FPM Seals) + Stainless Steel Seat + NSF + EC 1935 / 2004	RUBY Disc (FPM Seals) + NSF + EC 1935 / 2004	FPM Disc and Seals (Food Grade) + NSF + EC 1935 / 2004	FPM Disc and Seals + Stainless Steel Seat	RUBY Disc (FPM Seals) + Stainless Steel Seat	RUBY Disc (FPM Seals)					
NC - Normally closed - 1/4" - A	C(~)												
R356C119/127	M200706	9DH	-	-	9СМ	9DQ	-	X00					
R356C118/126	M200709	-	9ED	9CJ	-	-	9DY	-					
NC - Normally closed - 1/4" - D	C (=)												
R356C119/127	M200708	9DH	-	-	9СМ	9DQ	-	X00					
R356C118/126	M200709	-	9ED	9CJ	-	-	9DY	-					

### Installation

- The solenoid valves can be mounted in any position without affecting operation
- Mounting on single or joinable subbase or on supply rail, four mounting holes
- Installation/maintenance instructions are included with each valve

### **Dimensions** mm (inches), **Weight** kg (Lbs)



Configurator - CAD Files

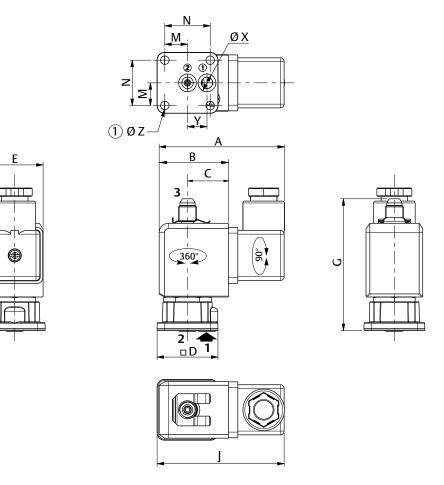


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**TYPE 01** Electrical interface "S1"

Coil size 30 mm - Thermoplactic moulded IEC 335 / ISO 4400

NC (brass body, FPM disc and seals, stainless steel seat): R356C118/119



1 4 mounting holes, Ø Z

size 30		Α	В	С	$\Box$ D	E	G	Н	J	M	N	ØΧ	Y	ØΖ	weight	(1)
R356C118/119	mm	66.3	36.6	21.6	32.2	30	69.7	75.4	67.2	12	24	9.4	10.3	4.5	0.240	kg
	(in)	2.61	1.44	0.85	1.26	1.18	2.74	2.97	2.64	0.47	0.94	0.37	0.40	0.18	0.53	(Lbs)

<sup>(1)</sup> Incl. coil(s) and connector(s).

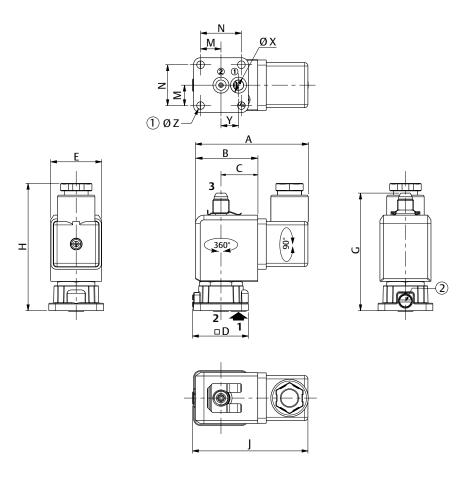
# **ASCO™ Solenoid Valves**

# Dimensions mm (inches), Weight kg (Lbs)



Configurator - CAD Files

NC (stainless steel body): R356C126/127



- $\bigcirc$  4 mounting holes, Ø Z
- 2 Manual operator location (except R256C126)

size 30		Α	В	С	□D	E	G	Н	J	М	N	øх	Υ	ØZ	weight	(1)
R356C126/127	mm	66.3	36.6	21.6	32.8	30	69.1	74.8	67.8	12	24	9.4	10.3	4.5	0.240	kg
	(in)	2.61	1.44	0.85	1.26	1.18	2.74	2.97	2.64	0.47	0.94	0.37	0.40	0.18	0.53	(Lbs)

<sup>(1)</sup> Incl. coil(s) and connector(s).

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