

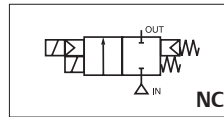
ASCO™ Solenoid Valves

high pressure, dual flow pilot operated for LPG applications, 3/4

2/2
SERIES
291

Features

- The normally closed LPG valves are especially designed to meet the particular heavy duty requirements of LPG applications
- Dual flow execution, for use in prepaid systems
- Explosion proof operator, intended for use in potentially explosive areas, according to Directive ATEX 94/9/EC
- Easy electrical installation by means of the moulded-in supply cables, standard length of 2 meter
- ASCO™ components satisfy all relevant EC directives



General

Differential pressure 0 - 25 bar [1 bar = 100kPa]
Ambient temperature range -20 to +65°C (FPM execution)
-40 to +65°C (PTFE execution)

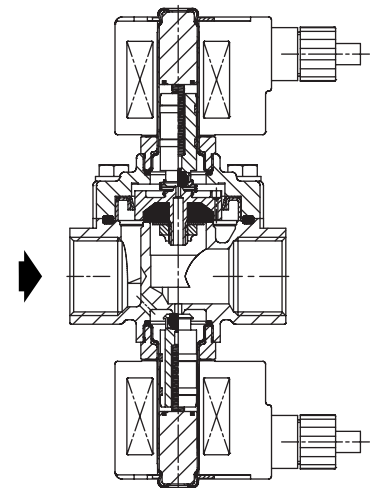
fluids (*)	temperature range (TS)	seal materials (*)
LPG / Liquid	-20 to +65°C	FPM (fluoroelastomer)
LPG / Liquid	-40 to +65°C	PTFE (**)



Materials in contact with fluid

(*) Ensure that the compatibility of the fluids in contact with the materials is verified
(**) Specify suffix T behind catalogue number for the PTFE execution

Body Brass
Core tube Stainless steel
Core and plugnut Stainless steel
Core disc FPM or PTFE
Rider ring PTFE
Springs Stainless steel



Electrical Characteristics

Coil insulation class F
Electrical safety IEC 335
Standard voltages DC (=) 24V - 48V;
AC (~): 24V - 48V - 115V - 230V / 50 Hz

prefix option	power ratings		operator ambient temperature range (TS) (C°)	safety code	electrical enclosure protection (EN 60529)	replacement coil		type ⁽¹⁾
	holding ~	hot/cold =				~	=	
	(W)	(W)				230V/50/60 Hz	24V/DC	
PV	10,5	-	-40 to +65	II2G Ex mb IIC Gb T3, II2D Ex mb IIIC Db	moulded IP67	⁽²⁾	⁽²⁾	01
(WS)EM	-	12,0 / 16,8	-40 to +40	II2G Ex mb IIC Gb T3, II2D Ex mb IIIC Db	SS / moulded IP65	400909-117	400914-142	02
SC	10,5	12,0 / 16,8	-40 to +65	EN 60730	moulded IP67	400425-117	400625-142	03 & 04

⁽¹⁾ Refer to the dimensional drawings on page 23
⁽²⁾ Multiple coils kits available under ATEX, contact us
- Not available

Specifications

pipe size	orifice size		flow coefficient Kv				operating pressure differential (bar)			prefix optional solenoids					basic catalogue number
	Low (mm)	High (mm)	Low (m³/h) (l/min)	High (m³/h) (l/min)	min	max. PS		NEMA 7&9	ATEX / IECEx			IP65			
						~	=		EF	Ex db	Ex eb mb		Ex mb		
G									NF	EM	PV	SC			
NC - Normally closed															
3/4	2,4	19	0,15	2,5	4,0	66,7	0	25	17	-	-	●	□	●	G291A321

● Available feature □ Available feature in AC only
- Not available

Additional Options

- Other explosionproof enclosures for use in zone 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU
- Explosionproof and watertight solenoids according to "NEMA" standards

Installation

- The valves can be mounted in any position without affecting operation
- Pipe connection identifiers: G = pipe thread according to ISO 228/1
- Installation/maintenance instructions are included with each valve
- PV solenoids have a standard cable length of 2 meters. Other lengths in full meters are available on request

Dimensions (mm), Weight (kg)

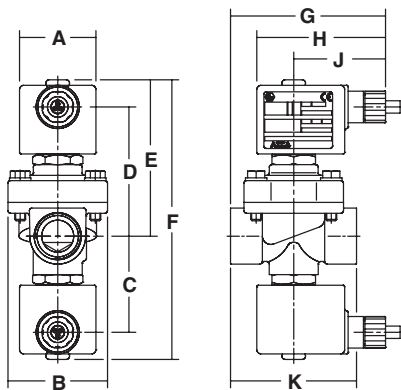


TYPE 01
Prefix "PV" Solenoid
Epoxy encapsulated
II2G Ex mb IIC Gb T3, II2D Ex mb IIIC Db
IP67

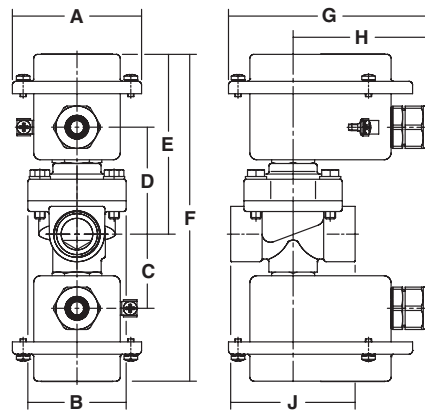


TYPE 02
Prefix "EM" and "WSEM" Solenoid
Zinc plated steel, epoxy coated (EM)
Stainless steel, AISI 316 (WSEM)
II2G Ex eb IIC Gb T3, II2D Ex tb IIIC Db
IP67

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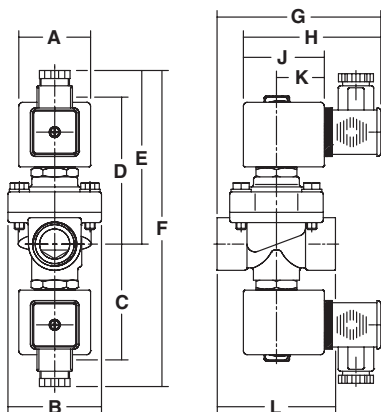


TYPE 03
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

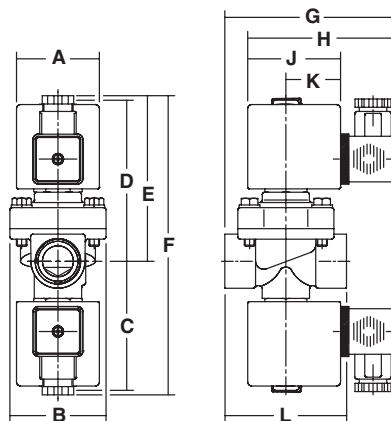


TYPE 04
Prefix "SC" Solenoid
Epoxy moulded
IEC 335 / ISO 4400
IP65

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type	AC/DC	prefix option	catalogue number	spare parts kits	A	B	C	D	E	F	G	H	J	K	L	weight
01	~	PV	G291A321	PVC139678	45	58	56	75	91	163	90	75	54	73	-	1,7 Kg
02	~/=	(WS)EM	G291A321	EMC139679	76	58	44	63	106	193	120	82	73	-	-	2,1 Kg
03	~	SC	G291A321	C139678	45	58	72	91	108	196	102	85	50	30	73	1,5 Kg
04	=	SC	G291A321	C139679	50	58	78	97	100	181	105	91	56	33	73	1,9 Kg

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