ASCO™ Solenoid Valves

high pressure, single flow pilot operated for LPG applications, 1/2 to 3/4

Features

- The normally closed LPG valves are especially designed to meet the particular heavy duty requirements of LPG applications
- Single flow execution for self service systems
- Explosion proof operator, intended for use in potentially explosive areas, according to Directive 2014/34/EU
- Easy electrical installation by means of the moulded-in supply cable, standard length of 2 meter
- ASCO™ components satisfy all relevant EC directives

General

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

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



(*) 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 & Bonnet Brass

Core tube Stainless steel Core and plugnut **Piston** Stainless steel Core & Piston disc FPM or PTFE Rider ring **PTFE**

Springs



NC

Electrical Characteristics

Coil insulation class **IEC 335 Electrical safety**

Standard voltages

DC (=) 24V - 48V; AC (~) 24V - 48V - 115V - 230V / 50 Hz

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

Specifications

Speciii	Cations						1								
pipe		flow co	efficient		perating pressure differential (bar)			prefix optional solenoids *					basic		
size	orifice size	Κv		dille	encial	Dai)	NEMA	ATEX / IECEx				IP65	catalogue		
					max	. PS	7&9	Ex d	Ex e mb	Ex mb	EEx nA	nA	number		
G	(mm)	(m³/h)	(l/min)	min	~	=	EF	NF	EM	PV	ZN	SC			
NC - No	NC - Normally closed														
1/2	19	4,0	66,7	0	25 17		-	-	•		-	•	G291A310] .	
3/4	19	4,0	66,7	0	25	17	-	-	•		-	•	G291A320]	

Available feature Available feature in AC only

Refer to the dimensional drawings on page 20 Multiple coils kits available under ATEX, contact us Not available

Not available

Additional Options

- Other explosion proof enclosures for use in zone 1/21-2/22, categories 2-3 to ATEX Directive 2014/34/EU
- Explosion proof 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)





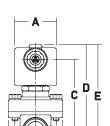
TYPE 01 Prefix "PV" Solenoid **Epoxy** encapsulated II2G Ex mb IIC Gb T3, II2D Ex mb IIIC Db

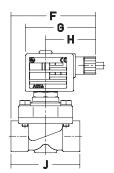
TYPE 02



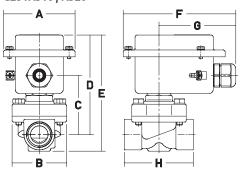
Prefix "EM" and "WSEM" Solenoid Zinc plated steel, epoxy coated (EM) Stainless steel, AISI 316 (WSEM) II2G Ex eb IIC Gb T3, II2D Ex tb IIIC Db **IP67**

G291A321 / A320





G291A310 / A320



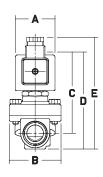


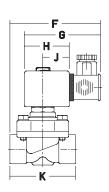
TYPE 03 Prefix "SC" Solenoid Epoxy moulded IEC 335 / ISO 4400 IP65



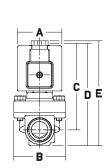
TYPE 04 Prefix "SC" Solenoid Epoxy moulded IEC 335 / ISO 4400 IP65

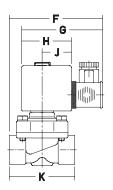
G291A310 / A320





G291A310 / A320





type	AC/DC	prefix option	catalogue number	spare parts kit	Α	В	С	D	E	F	G	Н	J	К	weight
01	~	PV	G291A310	PVC144067	45	58	71	85	101	88	75	54	70	-	1,1 Kg
01	~	PV	G291A320	PVC144064	45	58	75	91	109	90	75	54	73	-	1,2 Kg
02	~/=	(WS)EM	G291A310	EMC144072	76	58	59	102	116	120	82	70	-	-	1,3 Kg
02	~/=	(WS)EM	G291A320	EMC144069	76	58	63	106	124	120	82	73	-	-	1,4 Kg
03	~	SC	G291A310	C144067	45	58	87	101	118	100	85	50	30	70	1,0 Kg
03	~	SC	G291A320	C144064	45	58	91	109	125	102	85	50	30	73	1,1 Kg
04	=	SC	G291A310	C144072	50	58	93	107	110	103	91	56	33	70	1,2 Kg
04	=	SC	G291A320	C144069	50	58	97	115	118	105	91	56	33	73	1,3 Kg