



# OPERATORS

for potentially explosive atmospheres  
encapsulated  
II 2 G Ex mb II T6..T3, II 2 D Ex mD 21 IP67  
moulded enclosure with integrated cable



Series  
**PV**

## FEATURES

- Explosionproof operator for use in potentially explosive atmospheres according to ATEX-Directive 94/9/EC  
EC type examination certificate no.: **BAS 98 ATEX 2168 X**  
IECEX Certificate of Conformity no.: **IECEX SIR 06.109X**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with the International and European Standards EN-IEC 60079-0, EN-IEC60079-18, EN-IEC 61241-0 and EN-IEC 61241-18
- Easy electrical installation with moulded-in supply cable, 2 m long
- Ingress protection degree IP67
- The operators are designed for installation on a wide range of valves

## CONSTRUCTION

**Solenoid enclosure**  
**Core tube**  
**Plugnut**  
**Shading coil**  
**Nameplate**  
**Safety code**

Epoxy encapsulated  
Stainless steel  
Stainless steel  
Copper or silver  
Polyester  
IECEX / II 2 G Ex mb II T6 .. T3  
IECEX / II 2 D Ex mD 21 IP67 T85°C .. T200°C



## ELECTRICAL CHARACTERISTICS

**Standard voltages**  
(Other voltages and 60 Hz on request)

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

## TEMPERATURE CLASSIFICATION TABLES

### AC solenoids (-)

Pn (watt)	solenoid size		maximum ambient °C <sup>(1)</sup>			
	EM5	EMXX	surface temperature			
			T6	T5	T4	T3
			85°C	100°C	135°C	200°C
insulation class F (155°C) 100% E.D.						
2,5	●				60	65
4,0 <sup>(2)</sup>	●				60	65
4,05		●				65
6,3 <sup>(3)</sup>	●					65
10,5	●					65
insulation class F (155°C) 10% E.D.						
10,0	●					65

### DC solenoids (=)

Pn (watt)	solenoid size		maximum ambient °C <sup>(1)</sup>			
	EM5	EMXX	surface temperature			
			T6	T5	T4	T3
			85°C	100°C	135°C	200°C
insulation class F (155°C) 100% E.D.						
1,7		●	65			
3,0 <sup>(4)</sup>	●			40	60	60
6,9 <sup>(5)</sup>	●					40
8,6	●					40
11,0		●			65	
11,2		●			65	70
19,7		●			40	70
insulation class F (155°C) 10% E.D.						
15,0	●					40
22,0	●					40

Check the wattage compatibility with the product selected.

<sup>(1)</sup> Allowable minimum ambient temperature: -40°C. Actual temperature range may be limited depending on valve operation limits.

<sup>(2)</sup> AC series 189 - 189 banjo - 256/356 (1/8-1/4) - 551 integrated pilot - 238 (3/8 to 1)

<sup>(3)</sup> AC series 552/553

<sup>(4)</sup> DC series 189 - 189 banjo - 551 integrated pilot

<sup>(5)</sup> DC series 552 - 553 - 256/356 1/8-1/4 - 238 (3/8 to 1)

## CONNECTIONS

- The solenoid can be rotated through 360° to select the most favourable position for the cable.

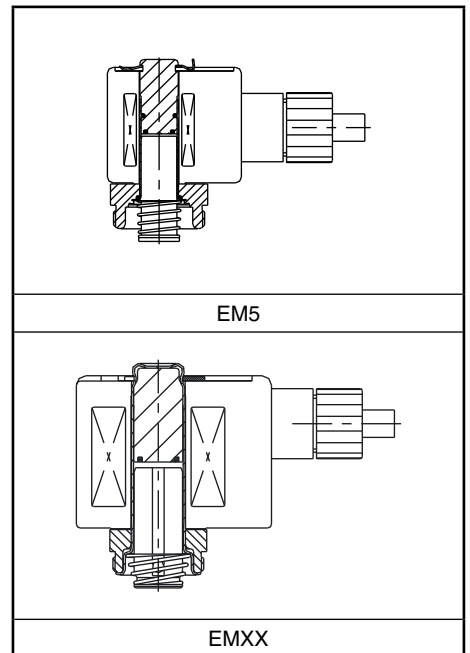
## ORDERING INFORMATION ON EXCEPTIONS

- PV + 18901... , for series: 189 - 189 banjo

Example: PV 18901001 230V/50 Hz  
PV 18901010 24V/DC  
PV 18901032 230V/50 Hz  
PV 18901047 24V/DC

- PV + TPL number 20787 , for series: 551 integrated pilot - 238 (floating diaphragm, 3/8 to 1, catalogue nos. including the letters ....A or B...) - 256/356 1/8

Example: PVX G551A005 24V/DC **20787**  
PVX G551A006 48V/DC **20787**  
PVX G551A017 24V/50 Hz **20787**  
PVX G551A018 48V/50 Hz **20787**  
PVX G551A001 115V/50 Hz **20787**  
PVX E238A001 230V/50 Hz **20787**  
PVX E238B008 24V/DC **20787**  
PVXG256A002VMS 24V/DC **20787**  
PVXG356A002VMS 230V/50 Hz **20787**

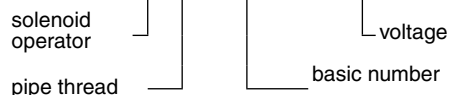



## ORDERING INFORMATION

(See Ordering Information on Exceptions)

A valve with the explosionproof operator will be identified with the prefix PV before the catalogue number.

Example: **PV** E 210D095 230V/50 Hz

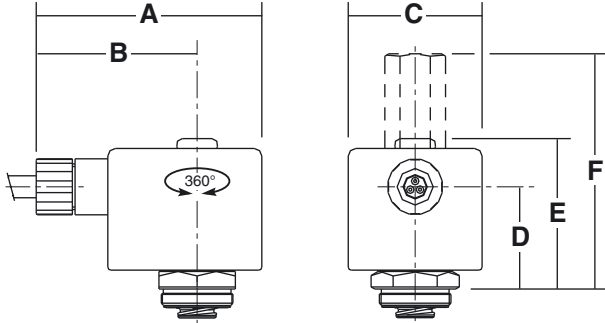


**DIMENSIONS (mm), WEIGHT** 



**TYPE PV**

Prefix "PV" solenoids  
Epoxy coated  
EN 60079-18 and EN 61241-18  
II 2 G Ex mb II - II 2 D Ex mD 21 IP67



size	A	B	C	D	E	F	weight <sup>(1)</sup>
EM5	60	45	29	21	38,5	66	<b>0,113</b>
EMXX	75	53,5	44,5	33,6	49,4	77,3	<b>0,348</b>