

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 ⁽¹⁾			
	EM5	EMXX			surface temperature			
					T6 85°C	T5 100°C	T4 135°C	T3 200°C
insulation class F (155°C) 100% E.D.								
2,5	●					60	65	
4,0 ⁽²⁾	●					60	65	
4,05		●					65	
6,3 ⁽³⁾	●						65	
10,5		●					65	
insulation class F (155°C) 10% E.D.								
10,0	●						65	

DC solenoids (=)

Pn (watt)	solenoid size				maximum ambient °C ⁽¹⁾			
	EM5	EMXX			surface temperature			
					T6 85°C	T5 100°C	T4 135°C	T3 200°C
insulation class F (155°C) 100% E.D.								
1,7		●			65			
3,0 ⁽⁴⁾	●					40	60	60
6,9 ⁽⁵⁾	●							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.

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

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

⁽³⁾ AC series 552/553

⁽⁴⁾ DC series 189 - 189 banjo - 551 integrated pilot

⁽⁵⁾ 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.

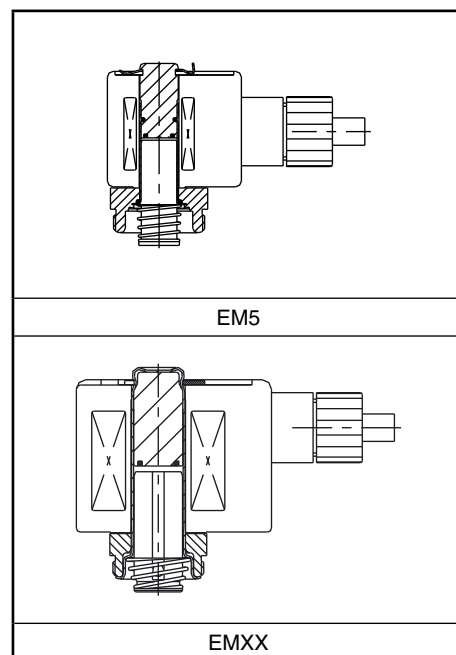
ORDERING INFORMATION ON EXCEPTIONS

- **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 lettersA 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**
PVX G256A002VMS 24V/DC **20787**
PVX G356A002VMS 230V/50 Hz **20787**



ORDERING INFORMATION

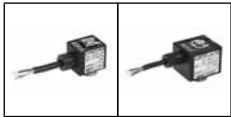
(See Ordering Information on Exceptions)

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

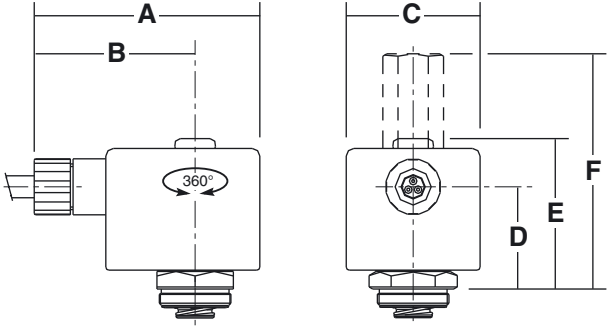
Example: **PV** E 210D095 230V/50 Hz

solenoid operator
 pipe thread
 voltage
 basic number

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 ⁽¹⁾
EM5	60	45	29	21	38,5	66	0,113
EMXX	75	53,5	44,5	33,6	49,4	77,3	0,348