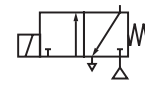




FLAPPER/NOZZLE VALVES

for potentially explosive atmospheres
intrinsically safe, II 2 G Ex ia IIC T5/T6
direct operated, pad mounting body



ATEX 3/2
Series
195
(CTPV prefix)

FEATURES

- Solenoid pilot valve 3/2 NC with flapper/nozzle technology for long service life, intended for use in potentially explosive atmospheres according to Directive ATEX 94/9 EC
- EC type examination certificate (LCIE 07 ATEX 6080 X) is in compliance with the European Standards EN 60079-0 and EN 60079-11
- The pilot's intrinsic safe (Ex ia) protection allows it to be installed in hazardous zone 1 or 2. It is compatible with all safety barrier brands

GENERAL

Differential pressure 0 - 8 bar [1 bar = 100 kPa]
Connection Subbase

fluids (*)	temperature range (TS)	seal materials (*)
air or inert gas dry, filtered (50 µm)	- 20°C to + 60°C	NBR (nitrile) PUR (polyurethane)



MATERIALS IN CONTACT WITH FLUID

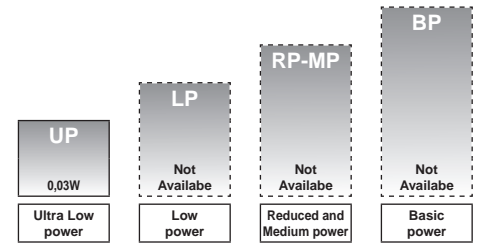
(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body PBT reinforced (thermoplastic polyester)
Internal parts Stainless steel, POM, aluminium
Seals NBR and PUR

ELECTRICAL CHARACTERISTICS

SAFETY CODE

Coil insulation class B II 2 G Ex ia II T6 - T5 (gas)
Cable gland PA, M20 x 1,5 (cable Ø 6-9 mm), IP65
Electrical safety IEC 335
Standard voltages (2) DC (=) : 16 to 40 V



POWER LEVELS - cold electrical holding values (watt)

max. voltage (U _n)	power ratings hot/cold =	typical functional ratings		R (80°C / 40°C)	ambient temperature range (TS)	type (3)
		I max.	P (MAX) dissipated			
(V)	(W)	(mA)	(mW)	(Ω)	(°C) (1)	
Ultra low power (UP)						
16 to 40	0,04 / 0,03	2,5 to 6,7	40 to 270	8080 / 5000	-40 to +60	01

power level	safety parameters				
	U _i = (DC)	I _i	P _i	C _i	L _i
(W)	(V)	(mA)	(W)	(µF)	(mH)
0,03	40	200	0,75	0	0

TEMPERATURE CLASSIFICATION TABLES DC (=)

power level (watt)	max. ambient °C (1)		
	surface temperature		
	T6 85°C	T5 100°C	T4 135°C
	24V	24V	24V
insulation class B (130°C) 100% E.D. (2)			
0,03	50	80	80

(1) The minimum allowable ambient temperature is -40°C.

(2) This intrinsically safe valve must be connected to a specific, approved power supply (safety barrier or interface) located in a safe area. See list of safety barriers/interfaces on page 2.

(3) Refer to the dimensional drawings on the following page.

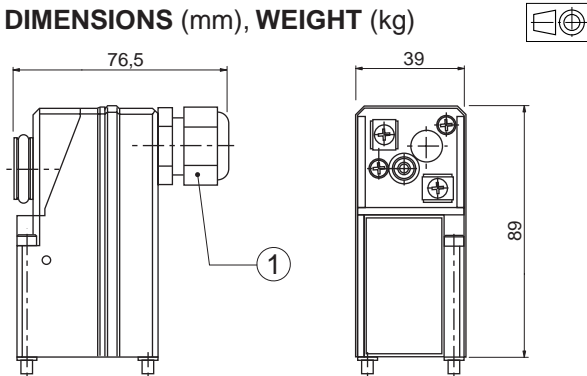
SPECIFICATIONS

pipe size	flow coefficient Kv		operating pressure differential (bar)		power ratings (W)	catalogue number
	1 → 2		min.	max. (PS)		
	(m³/h)	(l/min)		air (*)		
				=	=	=
NC - Normally closed						
pad mounting	0,3	5	0	8	0,03	19500033

INSTALLATION

- Multi language installation/maintenance instructions are included with each valve
- The solenoid operators can be mounted in any position without affecting operation
- It is recommended to protect the pilot with an inlet filter

DIMENSIONS (mm), WEIGHT (kg)



① Cable gland for unarmoured cable with 5 to 9 mm dia. sheath

type	weight
19500033	0,113

BARRIERS AND COMPATIBLE INTERFACES

Located in safe areas, these barriers and interfaces allow to feed the intrinsically safe, valves 19500033 located in explosive areas. This equipment must be ordered from its respective manufacturers, specifying that they are intended to feed intrinsically safe, valves II 2 G Ex ia IIC T6-T5.

INTERFACES		
manufacturer	module type	II 2 G Ex ia IIC
ABB	DO4-Ex / DO910S	x
	17-584E-4300/0000	x
	17-584E-5000/0000	x
Bartec	17-584E-5100/0000	x
	17-584E-6200/0000	x
	17-584F-4300/0000	x
	17-584F-5000/0000	x
	17-584F-5100/0000	x
	17-584F-6200/0000	x
	Typ 17-6583-.51./....	x
Buerkert	8643-2X.**.**	x
CEAG	6/915-6	x
	6/915-7	x
	6/915-8	x
	7/915-6	x
	7/915-7	x
	7/915-8	x
	FB 2201	x ⁽¹⁾
	FB 2203	x ⁽¹⁾
	FB 2205	x ⁽¹⁾
	FB 2212	x ⁽¹⁾
	FB 2213	x ⁽¹⁾
	FB 6208	x
	LB 2101	x ⁽¹⁾
	LB 2103	x ⁽¹⁾
	LB 2105	x ⁽¹⁾
LB 2112	x ⁽¹⁾	
LB 2113	x ⁽¹⁾	
LB 6108	x	
EMERSON	4 channel IS DO solenoid driver	x
GEORGIN	BXNE05	x
	BXNE06	x
	BXNE07	x
	BXNE09	x
	BXNE10	x
	BXNE11	x
HIMA	F 3328A (Characteristic A)	x
	F 3335	x
	H 4007	x

ZENER BARRIERS		
manufacturer	module type	II 2 G Ex ia IIC
PHOENIX	PI/Ex-ME-SD-24/60-S	x
	PI/Ex-ME-SD/24/65-C	x
	PI/Ex-ME-2SD/24/65-C	x
PR ELECTRONICS	5303B I	x
SIEMENS	2DO DC25V/25mA	x
	6ES7 132-5SB00-0AB0	x
	4DO 4x23.1V/20mA	x ⁽²⁾
STAHL	6ES7 132-7RD00-0AB0	x
	9475/12-04-21 ⁽³⁾	x
	9475/12-04-31 ⁽⁴⁾	x
	9475/12-08-61 ⁽³⁾	x
	9475/22-04-21 ⁽³⁾	x
TURCK	9475/22-08-61 ⁽³⁾	x
	8/D040Ex(27 V)	x
	IM72-11Ex/L(27 V)	x
	IM72-22Ex/L	x
	MC72-42Ex-T	x
	MC72-44B	x
MTL	MC72-44Ex-T	x
	MTL4021	x
	MTL4021S	x
	MTL4024	x
	MTL4024R	x
	MTL4025	x
	MTL5025	x
	ED2-VD-Ex2.2025	x
	ED2-VM-Ex2.35	x
	ED2-VM-Ex4.35	x
EGA-041	x	
Pepperl + Fuchs	EGA-041-3	x
	EGA-135	x
	KFD2-SD-Ex1.48	x
	KFD2-SD-Ex1.48.90A	x
	KFD2-SL-Ex1.48	x
	KFD2-SL-Ex1.48.90A	x
	KFD2-SL-Ex2	x
	KFD2-VM-Ex1.35	x
	KFD2-VM-Ex1.35L	x
	KSD2-BO-Ex	x
	KSD2-BO-Ex2.2	x
	RSD-UO-Ex8.H	x

⁽¹⁾ Open-circuit monitoring must be switched off.

⁽²⁾ Open-circuit monitoring >10kΩ may respond when using long cables or at high ambient temperatures.

⁽³⁾ Open-circuit monitoring must be switched off, or a resistor of 12 kΩ must be connected in parallel.

⁽⁴⁾ Open-circuit monitoring may respond at high ambient temperatures.

In accordance with the zone classification and the national legislation of each country, apply the certification procedures for the connection of IS-rated products with associated equipment.

All information subject to change without notice. All responsibility for the use of products from other suppliers and the possible modifications of their characteristics is disclaimed.

All leaflets are available on: www.asconumatics.eu