

ASCO™ Pilot Valve Boxes

for Explosive Atmospheres, Zone 22, II 3 D IP65 T85°C to T200°C, 2 to 12 Valves

2/2
Series
110

Features

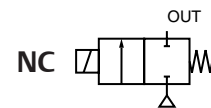
- Pilot box intended for use in potentially explosive dusty atmospheres, according to Directive ATEX 2014/34/EU
- Compliance with the Essential Health and Safety Requirements has been assured by European Standards EN 50014, EN 50281-1-1 and EN 13463-1
- Containing 2 to 12 valves, 2/2 normally closed, direct operated
- Common exhaust connection for 1 or 2 (G 3/8") silencers
- Degree of protection: IP65
- Facilities for integrated quick fittings
- The components satisfy all relevant EC directives



General

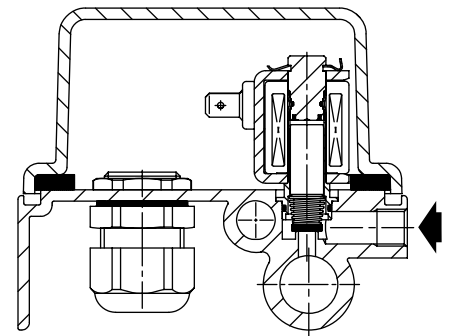
Differential pressure (PS) 0 to 8.5 bar [1 bar = 100kPa]
Response times 5 - 25 ms

Fluid	Temperature Range (TS)	Seal Material
air	-20°C to +80°C	NBR (nitrile)



Construction

Base-plate	Anodised aluminium
Cover	Aluminium
Core tube	Brass
Core and plugnut	Stainless steel
Spring	Stainless steel
Disc	NBR
Shading coil	Copper
Coil insulation class	F
Electrical connection	Spades according to DIN 46244



Electrical Characteristics

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

Coil Type	Nominal Power Ratings			Ambient Temperature Range (°C)	Protection	Replacement Coil	
	Inrush ~ (VA)	Holding ~ (VA) (W)	Hot/Cold = (W)			~ 230 V/50 Hz 400137-697	= 24 V DC 400137-642
UCM22-FI (1)	20.4	14 (W)	10 (W)	-20 to +85 for AC -20 to +55 for DC	moulded IP65		

(1) Intermittent duty, Relative Duty Time is 10%. Max on time is 1 min.

Temperature Classification Tables

AC (~) Solenoids

Power Level (watt)	Isolation Class	Maximum Ambient °C Surface Temperature		
		85°C	100°C	135°C
10.0	F	40°C	60°C	75°C

DC (=) Solenoids

Power Level (watt)	Isolation Class	Maximum Ambient °C Surface Temperature		
		85°C	100°C	135°C
22.0	F	40°C	60°C	75°C

Specifications

Number of Pilot Valves	Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)		Catalogue Number for ATEX Approved Boxes ⁽¹⁾		
					Min.	Max (PS)	without Heating	1 Heating Element ⁽²⁾	2 Heating Elements ⁽²⁾
						Air ~/=			
G	(mm)	(m ³ /h)	(l/min)						
2 3 4 5 6	1/8	3.6	0.35	5.8	0	8.5	WPSDU G110A020 WPSDU G110A030 WPSDU G110A040 WPSDU G110A050 WPSDU G110A060	WPSDU G110A021 WPSDU G110A031 WPSDU G110A041 WPSDU G110A051 WPSDU G110A061	- - - - -
7 8 9 10 11 12	1/8	3.6	0.35	5.8	0	8.5	WPSDU G110A070 WPSDU G110A080 WPSDU G110A090 WPSDU G110A100 WPSDU G110A110 WPSDU G110A120	WPSDU G110A071 WPSDU G110A081 WPSDU G110A091 WPSDU G110A101 WPSDU G110A111 WPSDU G110A121	WPSDU G110A072 WPSDU G110A082 WPSDU G110A092 WPSDU G110A102 WPSDU G110A112 WPSDU G110A122

(1) Minimum ambient temperature without heating elements : 0°C
 Minimum ambient temperature with 1 heating element : -40°C (2 to 6 pilots)
 : -15°C (7 to 12 pilots)
 Minimum ambient temperature with 2 heating elements : -40°C (7 to 12 pilots)
 (2) Heating element(s) 220-240 VDC / VAC 50-60 Hz standard, for other voltages see ordering information. Heating element(s) rating 80 watt each.

Options

- Integrated quick fittings for 6 or 8 mm tubes
- Special customer adapted executions

Installation

- The pilot boxes can be mounted in any position without affecting operation
- Pipe connections are: G 1/8 according to ISO 228 for pilot connection
 G 3/8 according to ISO 228 for common exhaust
- Cable entries: control cable on box with 2 - 6 pilot valves : cable Ø 7 - 12 mm
 control cable on box with 7 - 12 pilot valves : cable Ø 9 - 16 mm
 connection cable heating element : cable Ø 5 - 10 mm
- Installation/maintenance instructions are included with each pilot box
- Spare parts kit and replacement coils are available

Spare Parts Kits

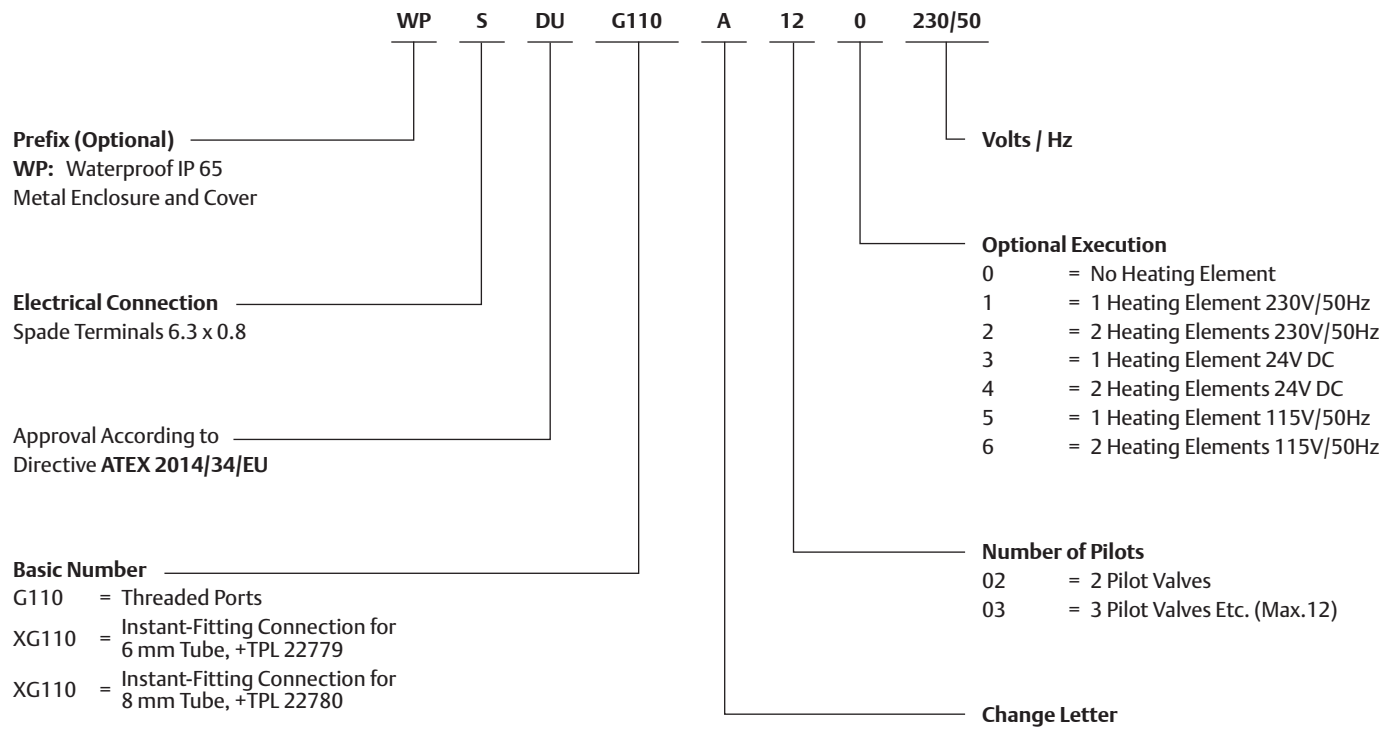
Catalogue Number	Spare Parts Kit No. ~/=
WPSDUG110A020 up to 120	C127837
WPSDUG110A021 up to 121	
WPSDUG110A072 up to 122	

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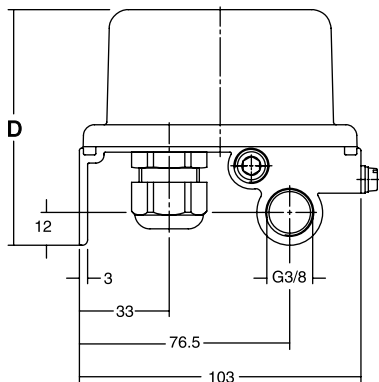
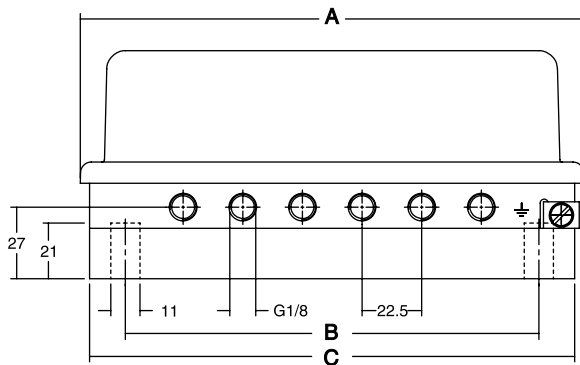
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How to Order



DIMENSIONS (mm), WEIGHT (kg)



Number of Pilot Valves	A	B	C	D	Weight ⁽¹⁾
2 to 6	190	156	183	86	1.8
7 to 12	328	266	318	95	3.2

(1) incl. coil and connector

60203GB-2022/R01