STAINLESS STEEL ATEX 2/2 SOLENOID VALVE SPU220-X NF

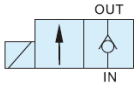
MAIN CHARACTERISTICS

The SPU 220-X is a direct acting ATEX 2/2 solenoid valve in stainless steel. It's intended for the shut-off the networks of agressive fluids no charged in hazardous atmospheres, areas 1, 2, 21 and 22. The standard construction is with stainless steel and diaphragm is FPM. Normally closed operating. This valve is operating with no minimum differential pressure. Assembly on horizontal piping, coil on the top. The SPU 220-X is delivered with an 3m molded cable.



AVAILABLE MODELS

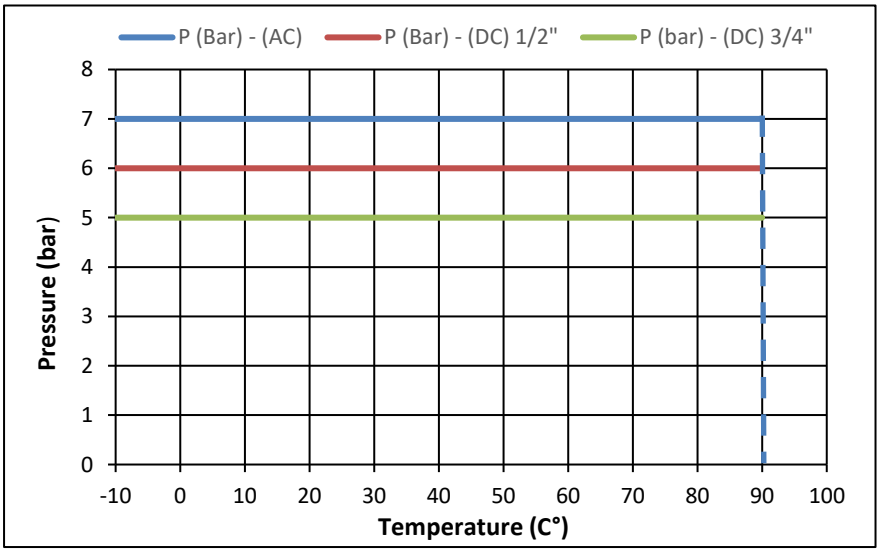
SPU220X : G 1/2" to G 3/4"
Diaphragm : FPM.
Voltages: See on page 3.
BSP Screwed end connections.



LIMITS OF USE

Electric protection	IP 65	
Max allowed fluid pressure : PS	1/2"	3/4"
Current AC Coil :	7 (bar)	7 (bar)
Current DC Coil :	6 (bar)	5 (bar)
Max allowed fluid temperature : TS	-10°C / +90°C	
Room temperature* :	-10°C / +50°C	

* In direct current, over 40°C, the maximum differentiel Pressure can be reduced.



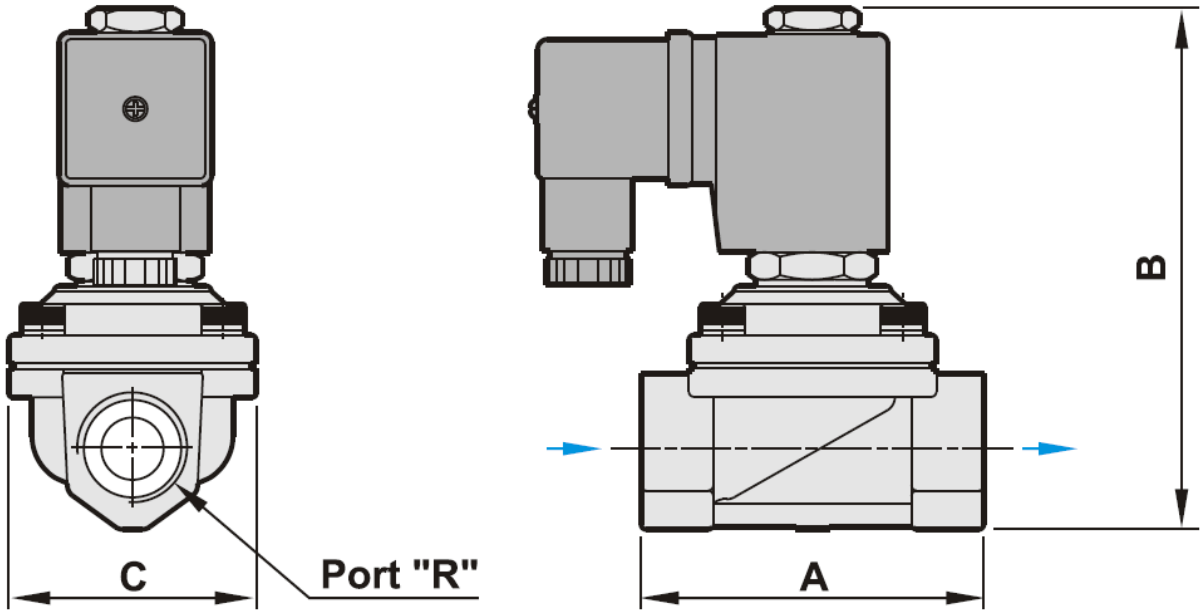
STAINLESS STEEL ATEX 2/2 SOLENOID VALVE SPU220-X NF

REGULATIONS AND STANDARD OF CONSTRUCTION

Item	Standard	Item	Standard
Pressure Equipment Directive 2014/68	**1/2" to 3/4"**: A4 § 3	Stainless steel materials	EN 1503-1
Low voltage directive 2014/35		BSP Thread	ISO 228
Directive ATEX	Category II	Size	EN 12516-1
Coil : II 2G/D EEx m II T4	PTB 03 ATEX 2086 X	Body : II 2G/D EEx c II T4	SIRA 09 ATEX 6180 X

DIMENSIONS (mm) AND WEIGHT (kg)

DN	A	B	C	Weight (Kg)
G 1/2''	66,5	101	48	1,04
G 3/4"	71	89	48	1,2



HYDRAULICS CHARACTERISTICS

DN	Port (R) (mm)	Kv (m^3/h)	Max Diff. AC. Pressure (bar)	Max Diff. DC. Pressure (bar)	Operating time (s)
G 1/2''	13	3,2	7	6	20-60 ms
G 3/4"	20	6,9	7	5	

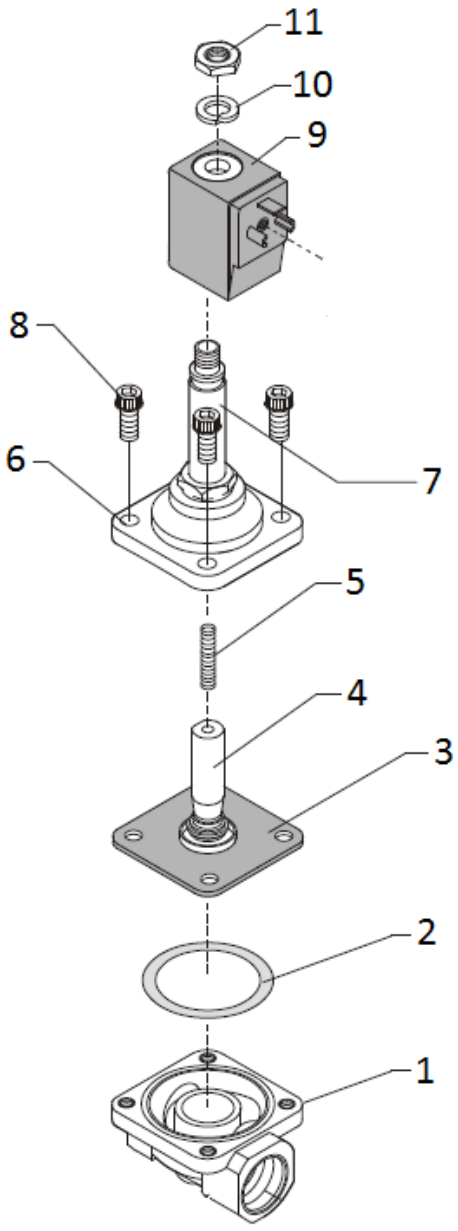
ELECTRIC CHARACTERISTICS

Coil classified F. Duty 100%. Connecting by thread

Coil ATEX	Current	Available voltages (V)		Frequency		Power consumption
	AC Coil	24	230	50 Hz	60 Hz	18,1 VA
	DC Coil	24				15 W

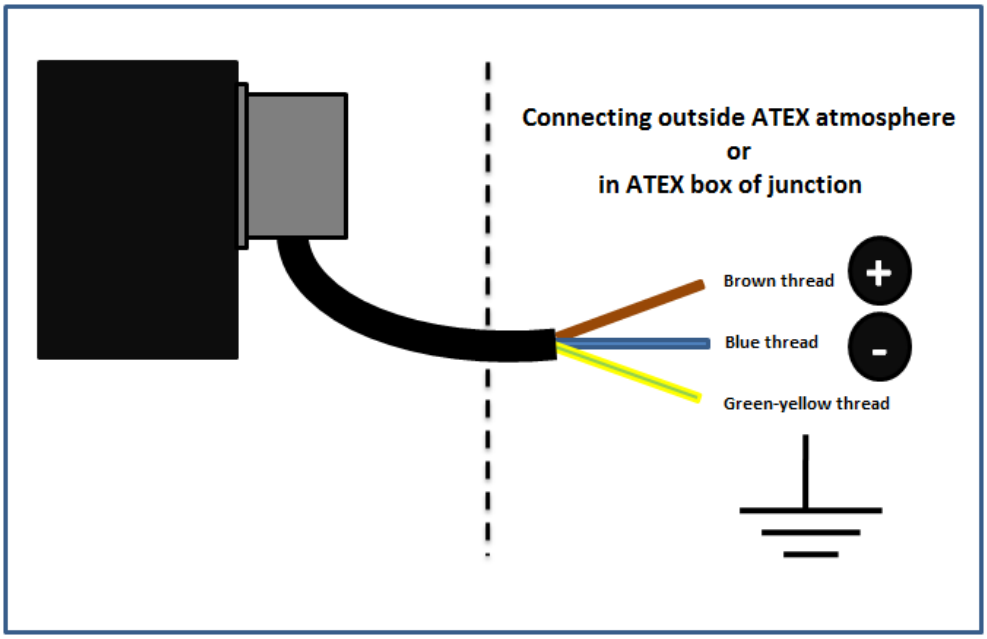
CONSTRUCTION

N°	Item	Material
1	Body	Stainless steel 1.4408
2	Gasket	PTFE
3	Diaphragm	FPM
4	Plunger	Stainless steel 1.4301
5	Spring	Stainless steel
6	Cover	Stainless steel 1.4408
7	Tube guide	Stainless steel 1.4301
8	Screw	Stainless steel 1.4301
9	Coil ATEX	PBT +30 % GF
10	Washer	Zincated steel
11	Nut	Zincated steel



SPECIAL INSTRUCTIONS OF MOUNTING AND MAINTENANCE IN HAZARDOUS EXPLOSIVE ATMOSPHERE

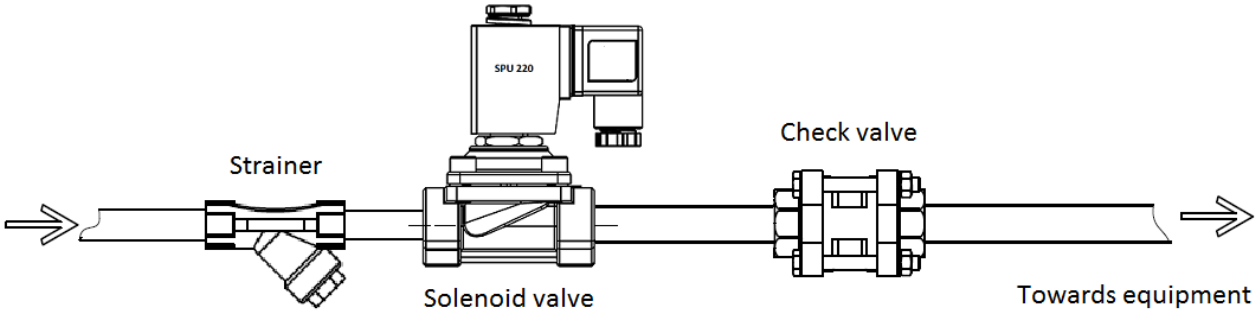
1 - It is recommended to install the solenoid valve at his reception. If this equipment must be stored, it has to be made in a dry place and protected from the bad weather.
2 - The installation of the solenoid valve can be realized only by an authorized person to work in explosive area.
3 - Wear protection equipments necessary for this type of intervention : Glasses and gloves.
4 - The installation of the solenoid valve is not recommended in wet environment.
5 - Verify the compatibility of the solenoid valve with the category of the potentially explosive zone and with his surface's temperature.
6 - Verify the voltage and the frequency of the electric current of supply. The coil must be switched off if it is not installed on the body of the solenoid valve.
7 - Before any operation, Depressurize the piping and wait for its cooling at room temperature.
8 - The preliminary cleaning of the pipings and the tank is compulsory and must be realized with the great care.
9 - The installation of a strainer of protection upstream to the solenoid valve is strongly recommended.
10 - Respect the sense of flow indicated by the arrow marked on the body.
11 - The power cable must be linked with a box on screw outside of the explosive atmosphere or in ATEX approved Box. Plan a protection's fuse of the feeding system of the solenoid valve.



NOTA:

Check-valve :
A solenoid valve cannot be used as a check-valve. A de-energized normally closed solenoid valve can be crossed by a downstream counterflow. If a both side tightness is required, please add a check-valve downstream of the solenoid valve.

Example



Scaling :
A solenoid valve used on hard water and kept energized during long period can face scaling problem that can block the operation. For this kind of application, please consult.

Conform also to the assembly instructions supplied with the solenoid valve.

SPARE PARTS

Coil ATEX (item 9)			
Voltage	230V 50/60Hz	24V 50/60Hz	24Vcc
Code	980540	980541	980542
Diaphragm (item 3)			
DN	**1/2"**		**3/4"**
FPM	980580		980581

OPTION

Diaphragm : EPDM
NPT thread according to ANSI B1.20

Gegevens ter indicatie, wijzigingen voorbehouden.