


Electrical data for the intrinsically-safe solenoid respectively intrinsically-safe pilot valves from EUGEN SEITZ AG

	Solenoid	Pilot valve			
Type designation	11 G 52	PV 12F73 Ci oH	PV 12F73 Xi oH	PV 12F73 Xi oH-2	
Article No.	121.113.23	133.288.00	127.991.00	128.319.00	
Minimum electrical requirements for safe operation at +20 °C *)	15 V with 15 mA	14 V with 2.2 mA	6.4 V with 1.5 mA	7 V with 4.4 mA	
	220 mW	30 mW	9 mW	30 mW	
Internal resistance at	-40 °C	-	≥4990 Ohm	-	≥1260 Ohm
	-30 °C	≥880 Ohm	≥5150 Ohm	≥3460 Ohm	≥1300 Ohm
	+20 °C	1030 Ohm +/-8%	6350 Ohm +/-5%	4160 Ohm +/-5%	1570 Ohm +/-5%
	+65 °C	≤1190 Ohm	≤7720 Ohm	≤4960 Ohm	≤1880 Ohm
	+80 °C	-	≤8080 Ohm	-	≤1960 Ohm
safety-related maximum values for the intrinsically safe circuit	$U_i \leq 32 \text{ V}$	$U_i \leq 40 \text{ V}$	$U_i \leq 40 \text{ V}$	$U_i \leq 40 \text{ V}$	
	$I_i \leq 200 \text{ mA}$	$I_i \leq 200 \text{ mA}$	$I_i \leq 200 \text{ mA}$	$I_i \leq 200 \text{ mA}$	
	$P_i \leq 1.2 \text{ W}$	$P_i \leq 0.75 \text{ W}$	$P_i \leq 0.85 \text{ W}$	$P_i \leq 0.85 \text{ W}$	
Ex-marking	 II 2 G Ex ia IIC T6 or T5				
Certificates	Europe	PTB 01 ATEX 2020	PTB 99 ATEX 2146	PTB 00 ATEX 2030	PTB 00 ATEX 2030
	China	GYJ071069	GYJ071066	GYJ071067	GYJ071067
Degree of protection according to EN60529	IP 65				
Connection	Terminals				
Cable port	M 20 x 1.5				
Corresponding valve group	CP-11	CP-12			
Notes	1) 2)		3)		

*) For safe operation the minimum current must be ensured under all operating conditions (temperature, cable length)

1) When circuit is switched on, an internal capacitor has to be charged. Therefore the initial internal resistance is only approx. 60 Ohms.

2) For use with AK-7 and SIL 4 certified solenoid valves

3) Designed for "Profibus PA".