NPP
Nuclear Power Plants

seitzvalve

Pilot Control Block

Pilot Control Block products for pilot control function of MSIVs and SRVs. These blocks consist of valves and solenoids assembled in modular way based on client´s requirements.

Specification

Solenoid Type 6A39	
Operating system	Solenoid
Rated voltage	105 to 140 V DC; normal 125 V DC
Tolerance	+10% / -10%
Rated power	22 W
Protection degree	IP 68 up to 4 bar (58 psig)
Weight	0.820 kg (1.8 lbs)
Ambient temperature	Up to 60 °C (141 °F)
Frequency	50 to 60 Hz (+/- 3 Hz)

Harsh environment

Temperature	179 °C (355 °F)
Radiation	6.34×10^5 Gy

NPP references

Nine Mile Point	USA
Grand Gulf	USA
Perry	USA
Clinton	USA
Mühleberg	Switzerland
Leibstadt	Switzerland
Gösgen	Switzerland

Specifications

Valve types 1166 + 1133	
Operating system	Pneumatic pilot operated with system media fluid with: 2 solenoids (valve type 1166) 3 solenoids (valve type 1133)
Function	3-way pilot valve for MSIV / SRV
Fluid	Filtered air (50 micron filter)
Nominal diameter	32 mm (1.3 in)
Design pressure	20 bar (300 psig)
Operating pressure	6.2 to 14 bar (90 to 200 psig)
Leakage	2.0 Ncm3/min (0.12 inch3/min)
Material	Body: Aluminum enameled / Elastomers: EPDM
Ambient temp. range	Up to 104 °C (219 °F)

Qualifications

Qualification and design bases	IEEE 323 - 1974 IEEE 344 - 1975 IEEE 382 - 1980 NUREG 0588, Category 1 US NRC Regulatory Guide 1.89, 1974 US NRC Regulatory Guide 1.100, 1976
Qualified lifetime	40 years
Radiation	2.8×10^6 Gy (40 years)

Harsh environment

Temperature	Up to 171 °C (340 °F)
Radiation	2.86×10^5 Gy; 2.44×10^6 Gy beta

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