

Basic safety principles for the components P84 / P82

(According to informative annex B, Table B.1/ISO 13849-2:2012)

Following basic safety principles are fulfilled

- Use of suitable materials and adequate manufacturing
- Correct dimensioning and shaping
- Proper selection, combination, arrangement, assembly and installation of components/system
- Proper fastening
- Withstanding environmental conditions
- Proper temperature range
- Protection against unexpected start-up

Following basic safety principles must be considered exclusively by plant manufacturer/machinery installer

- Use of de-energization principle
 - Pressure limitation
 - Speed limitation/speed reduction
 - · Sufficient avoidance of contamination of the fluid
 - Proper range of switching time
 - Simplification

Following safety principles cannot be applied to this component Separation

Well-tried safety principles for the components P84 / P82 (According to informative annex B, Table B.2/ISO 13849-2:2012)

Following basic safety principles are fulfilled

- Overdimensioning/safety factor
- Safe position: The moving part of component is held in initial stable position for models with mechanical return spring only.
- Use of well-tried spring
- Appropriate range of working conditions

Following basic safety principles must be considered exclusively by plant manufacturer/machinery installer

- Speed limitation/speed reduction by resistance to defined flow
- Force limitation/force reduction
- Proper avoidance of contamination of the fluid

Following safety principles cannot be applied to this component

- Increase OFF force
- Valve closed by load pressure
- · Positive mechanical action
- Multiple parts
- Sufficient positive overlapping in spool valves
- Limited hysteresis

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