



Scald Protection Valve

Operation

Under normal operating conditions, water passes through a virtually unobstructed DN25 or larger tee pipe, allowing this valve to be used in higher flow lines. The DN20 SPV will screw into any DN20 threaded opening with adequate internal clearance. When the water temperature rises above safe limits, and a danger of scalding exists, the thermal actuator located in the fluid stream modulates the valve open. When the water temperature returns to the safe range, the valve then modulates closed, minimizing water loss. Due to the actuator's placement in the fluid stream this valve is unaffected by ambient air temperature and is open at 37°C and will remain open until water temperature is 32°C.

Application

Solar radiation or overheating caused by steam or electric tracing can cause extremely high temperatures at the point of use, resulting in a safety hazard for plant personnel. When installed in safety showers, eyewash stations, and other locations exposed to the same source of overheating as the system, the SPV will be heated just as the pipe system. The valve will open to establish flow until the overtemperature water is eliminated and it will then modulate closed.



Design Features:

- * Brass body and thermal element
- * Narrow temperature band
- * Compact, low mass - Fast response
- * Ram-type plug for reliable tight shutoff
- * Sensitive to fluid temperature only

- * Unaffected by pressure variations
- * Easy installation with pipe wrench
- * Discharges the minimum amount of water required to keep water temperature within safe limits

Design Features:

Model	Port Size	Body Material	Open/Close Temp (°C)	Maximum Temp (°C)	Operating Pressure (MPa)	Flow Rate (Cv)	Dimensions (mm)	Net Weight (g)
SP65 - 95	NPT Male 3/4"	Brass	32~37	+120	1.0	0.6	Φ30*69	130
SP65 - 100	NPT Male 3/4"	Brass	35~41	+120	1.0	0.6	Φ30*69	130

Notes:

*Seal material: EPDM, Viton available

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