

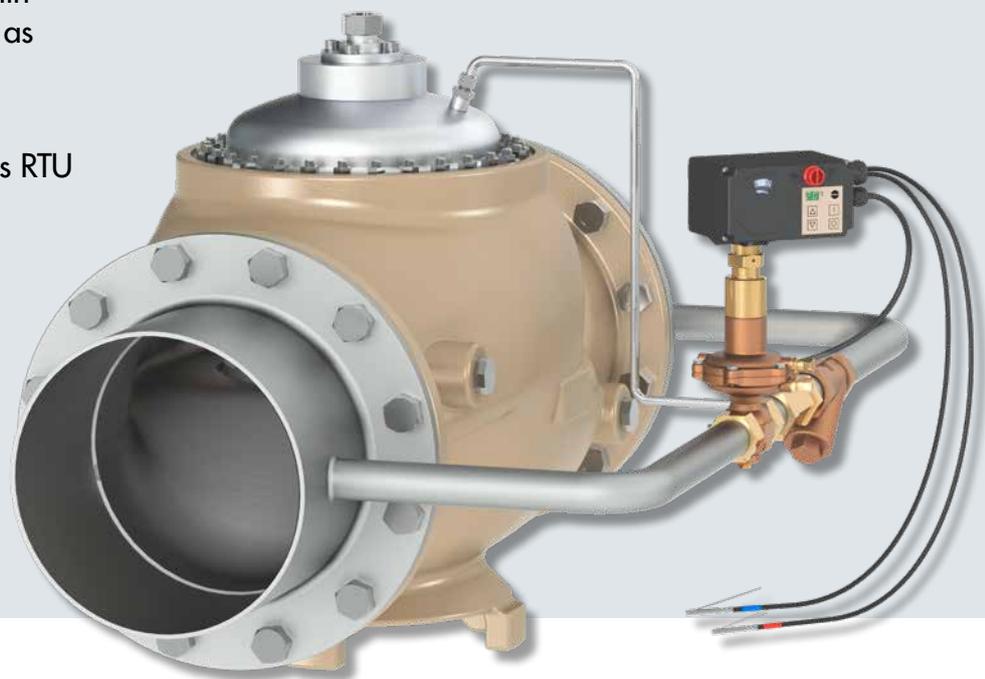
Energy Efficiency with Large-sized Valves

Smart pilot-operated valves



Type 233X Pilot-operated Valves in sizes up to DN 400

- For use in heating or cooling circuits together with TROVIS 5724-8 Electric Actuators with Process Controller
- Differential temperature control with return flow temperature limitation as well as many other applications
- Communication connection using RS-485 two-wire bus with Modbus RTU protocol
- Other functions (e.g. pressure, differential pressure or flow rate control) possible through the installation of other or additional pilot valves



SAM[®] DISTRICT ENERGY

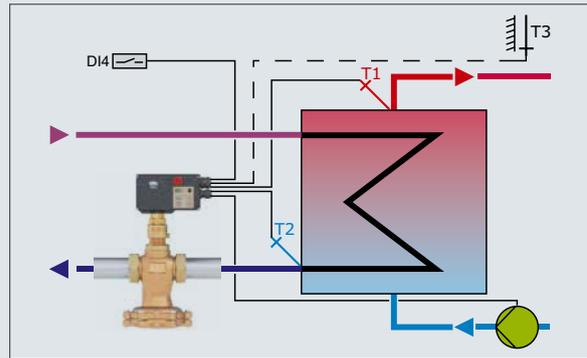
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Energy Efficiency with Large-sized Valves

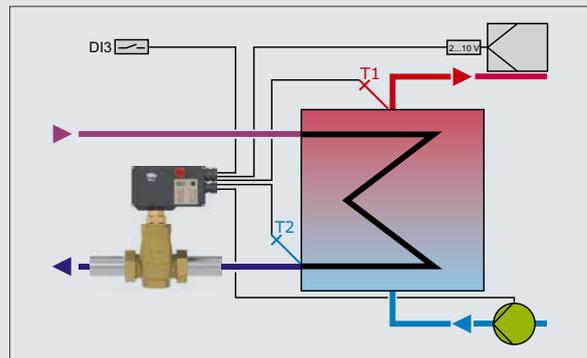
Smart pilot-operated valves

Pilot-operated applications with Type 233X Valve in combination with a TROVIS 5724-8 or TROVIS 5725-8 Electric Actuator with Process Controller, optionally with RS-485 communication for smart control solution, for valve sizes up to DN 400; PICV or valve with electric actuator with process controller up to DN 50.

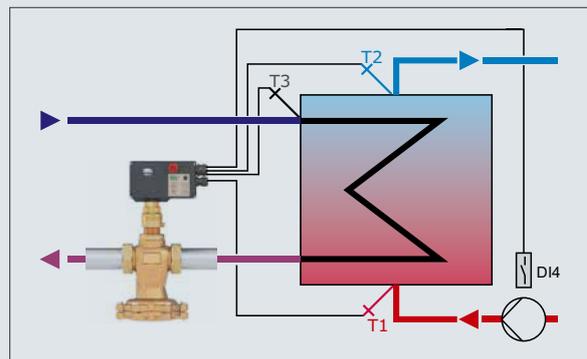
Min. differential pressure range of Type 233X Valves	
DN	Approx $\Delta p_{min.}$ depending on application
125	1.1 to 1.3 bar
150	0.7 to 0.9 bar
200	0.4 to 0.6 bar
300	0.5 to 0.7 bar
400	0.3 to 0.5 bar



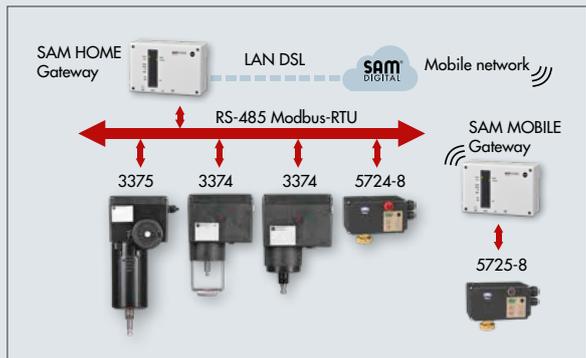
Example: district heating



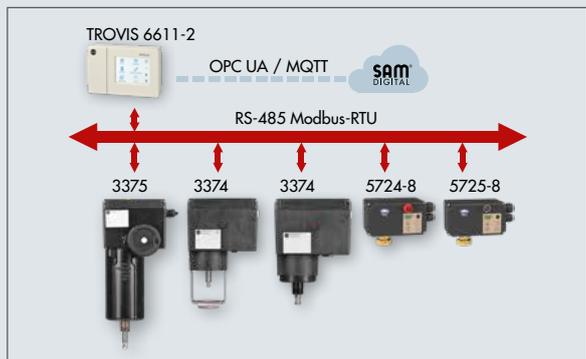
Example: position transmitter with temperature closed-loop control upon failure



Example: district cooling



Cloud topology with gateway for bus connection



Cloud topology with PLC and bus connection



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