

DATA SHEET

CSE MIX W8 1M Pump Station



Main Features	
Application	Providing circulation and mixing of a heating circuit or solid fuel fired source circuit. Switching of the circulation pump and control of the mixing valve is realized from an external controller.
Description	Consist of WILLO Para 25/8 SC pump, LK 840 3-way mixing valve w. AVC actuator, insulation.
Working fluid	Water; water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1).
Installation	Flow pipe to heating circuit / on solid fuel boiler return pipe, min. pipe centre distance from wall is 100 mm.
Code	17980

Pump Station Data

Fluid working temperature	5–95 °C
Max. working pressure	10 bar
Min. working pressure	0.5 bar
Ambient temperature	5–40 °C
Max. relative humidity	80 % non condensing
Mixing valve Kvs	6,3 m ³ /h
Valve Leakage rate	< 1 % Kvs at 5 mH ₂ O pressure difference
Actuator torque	5 Nm
Actuator angle of rotation	90°
Actuator shift time	120 s
Actuator control	3-point (SPDT)
Actuator auxiliary switch	none
Max. pump speed	4800 rpm
Overall dimensions	305 x 135 x 195 mm
Total weight	3.9 kg
Connections	2 x G 1" M (mixing valve); 1 x G 1" F (pump)

Electric Data

Power supply	230 V, 50 Hz
Pump power input (min./max.)	2/75 W
Pump current (min./max.)	0.03/0.66 A
Actuator max. power input	2.5 VA

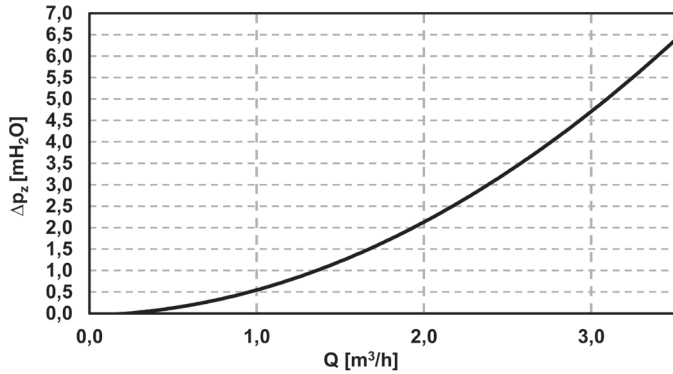
Materials

Insulation	EPP RG 60 g/l
Mixing valve and fittings	brass

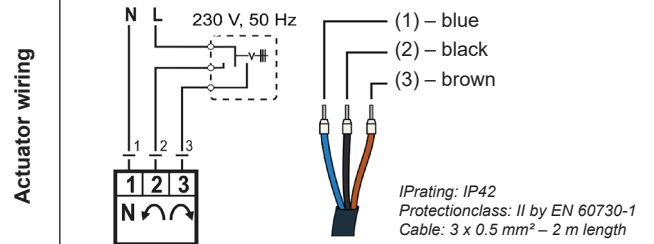
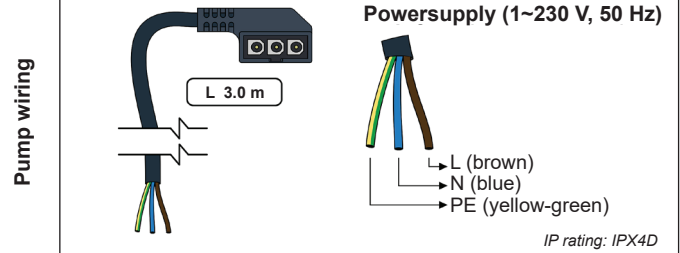
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Pump Station Pressure Drop Graph

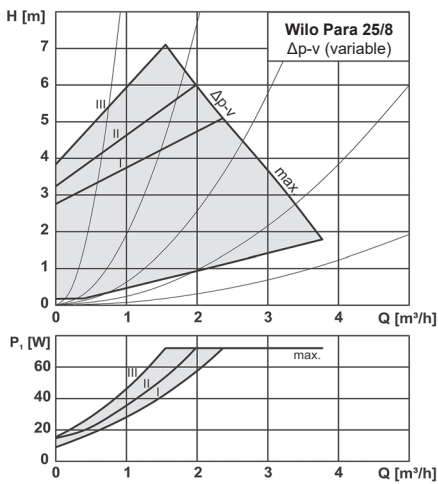


Pump and actuator wiring

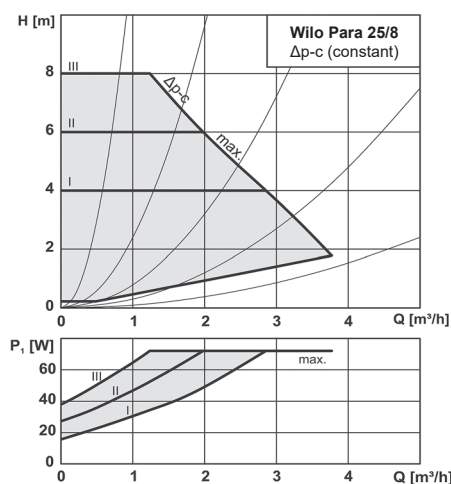


Pump Performance Curves

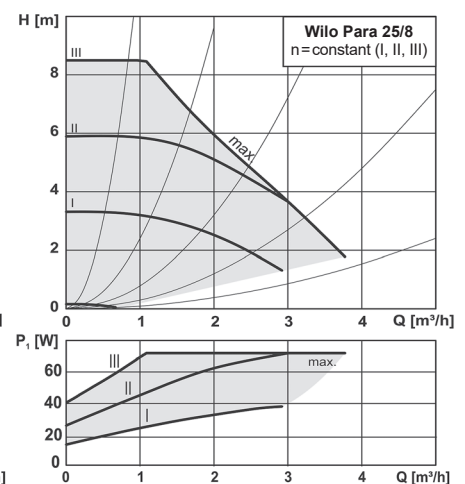
Characteristics of Δp-v (variable)



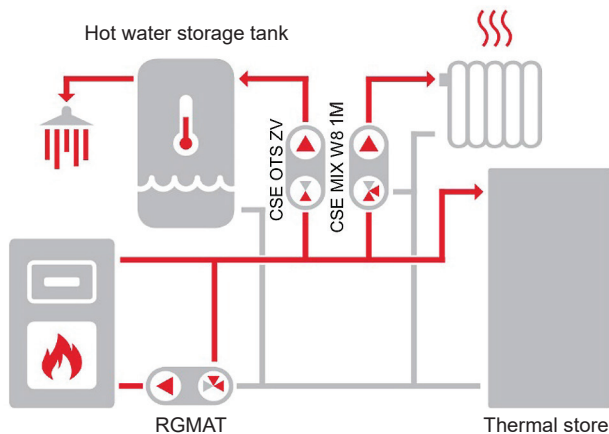
Characteristics of Δp-c (constant)



Characteristics of n=const.

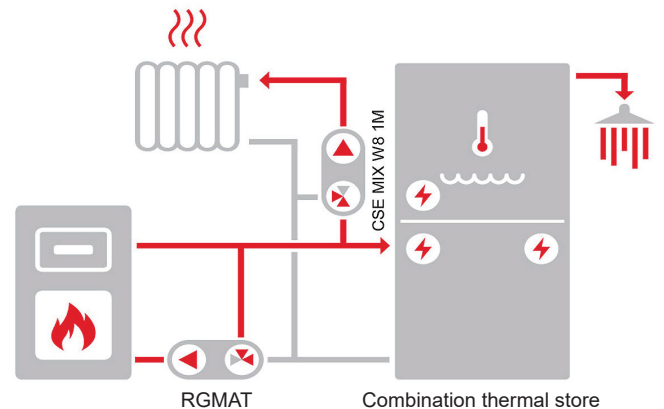


Example of possible connection I



The diagram shows a typical connection of a solid fuel boiler (with the recommended RGMAT pump station – not included in supply), thermal store and heating circuit. If the boiler is used also for hot water heating, it is recommended to install a CSE OTS ZV W pump station (not included in supply).

Example of possible connection II



The diagram shows a typical connection of a solid fuel boiler (with the recommended RGMAT pump station – not included in supply), combination thermal store and heating circuit.