

## CSE MIX W 1F Pump Station

v1.4\_09/2019

Main features	
Application	control of a solid fuel boiler return line or control to a fixed temperature of output into a mixed circuit
Description	consists of WILO Yonos Para RS 25/6 pump, LK 840 3-way mixing valve with AVC actuator, insulation
Working fluid	water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1)
Installation	on solid fuel boiler return pipe / flow pipe to heating circuit, min. pipe centre distance from wall is 100 mm
<b>Installation</b>	<b>16219</b>



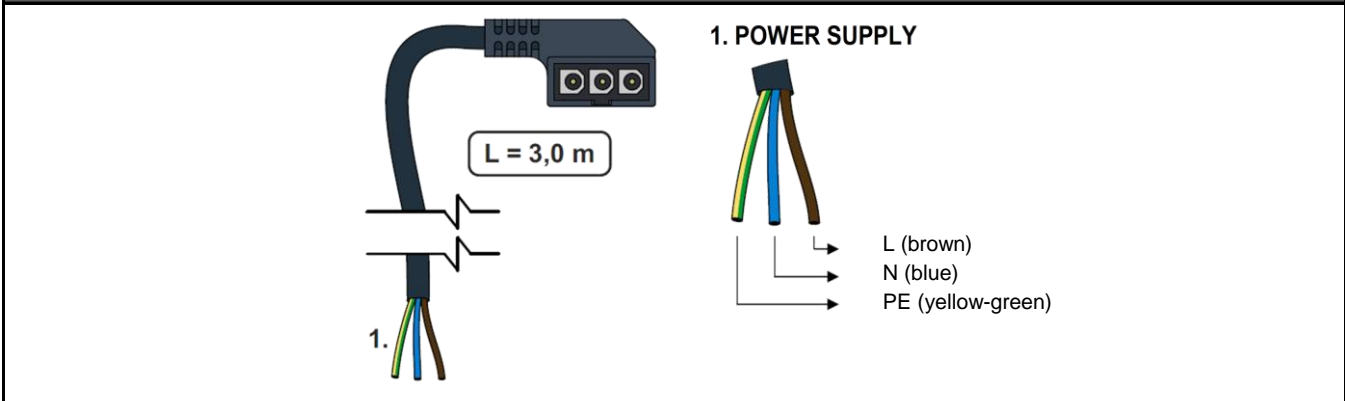
CSE MIX W 1F Pump Station Data	
Fluid operating temp.	5 - 110 °C
Max. working pressure	6 bar
Ambient temperature	5 - 40 °C
Max. relative humidity	95 % non condensing
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 220 mm
Total weight	3,9 kg
Connection	3 x G 1" F

WILO Yonos Para RS 25/6 RKC 130 mm Pump Data	
<b>Electric data</b>	
Power supply	230 V, 50 Hz
Power input (min./max.)	3/45 W
Current (min./max)	0,03/0,44 A
IP rating	IPX4D
Max. speed	4300 rpm
Energy efficiency index	≤ 0.20 per EN 16 297/3
Motor protection	integrated

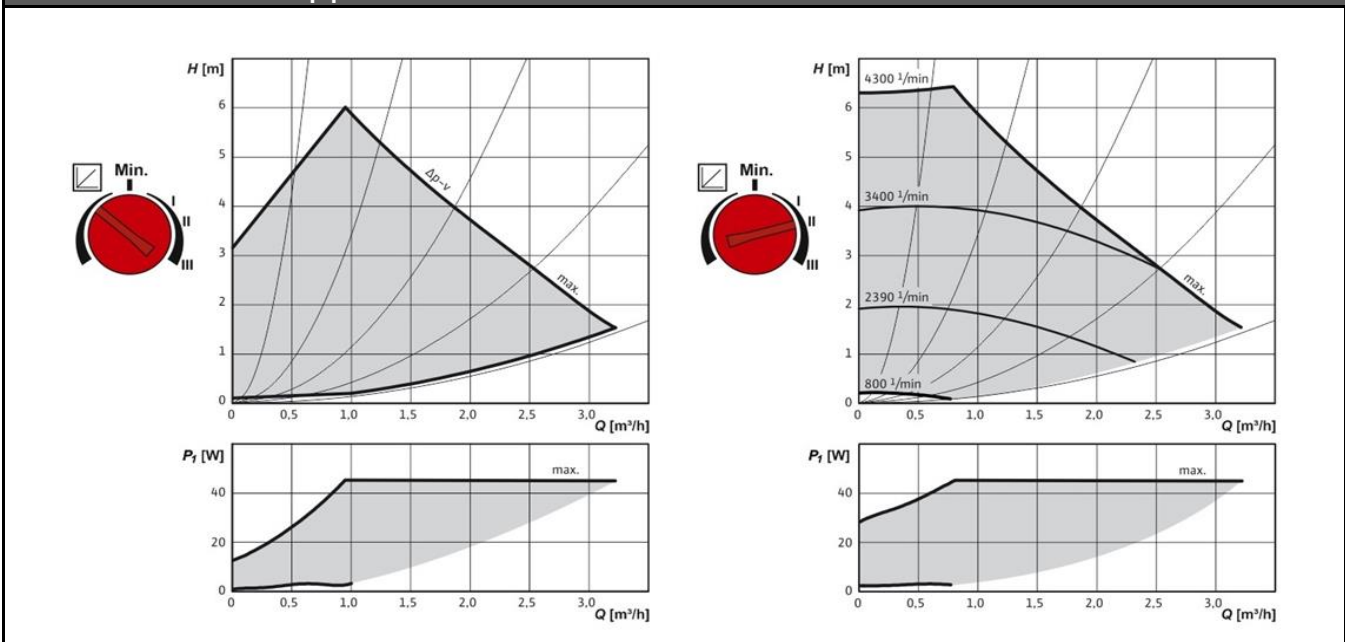
Min. pressures at the suction port to avoid cavitation	
Min. pressures at the suction port	0.5 mH <sub>2</sub> O at 50 °C
	4.4 mH <sub>2</sub> O at 95 °C

Operation data	
Fluid operating temp.	0 - 100 °C at 58 °C ambient temp.
Max. working pressure	6 bar
Max. delivery head	6,2 m

### Connection of WILO Yonos PARA RS Pump - MOLEX connector



### WILO Yonos Para RS Pump performance curves



### LK 840 Mixing Valve

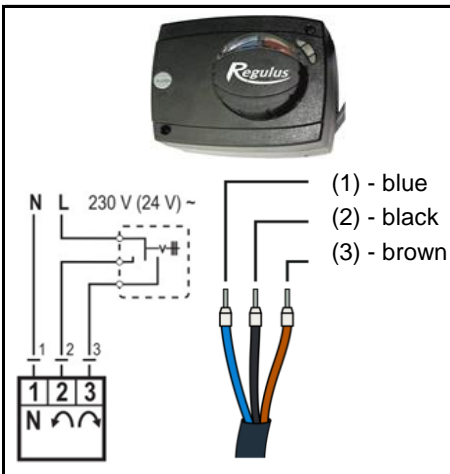
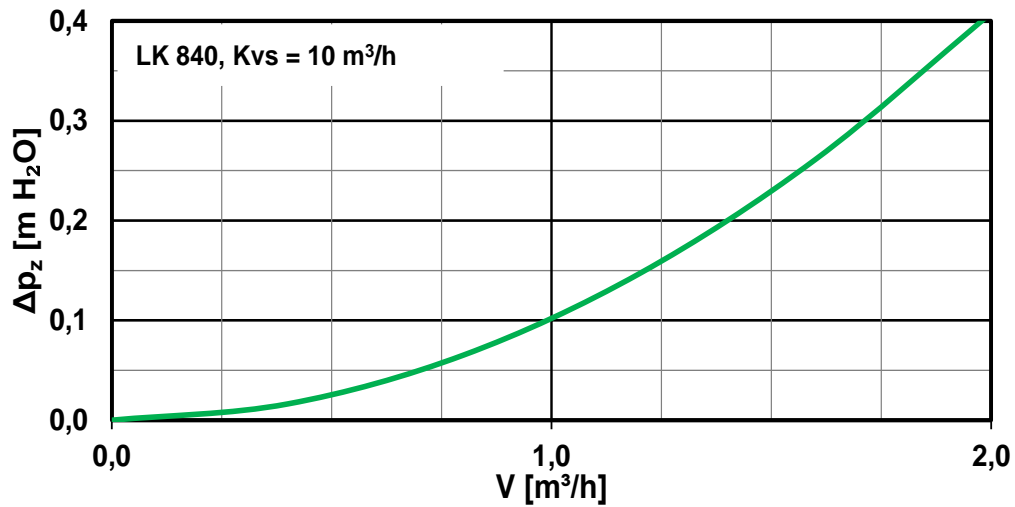
#### Technical data

Max. working temperature	5 - 110 °C (120 °C in short term)
Max. working pressure	10 bar
Ambient working temp.	5 - 60 °C
Valve Kvs	10 m³/hod
Max. pressure difference	5 m H <sub>2</sub> O
Leakage rate	< 1 % Kvs at 5 m H <sub>2</sub> O pressure diff.
Connection	3 x G 1" F

#### Materials

Body, member and spindle	brass
Seal	EPDM

### Valve pressure drop diagram



### AVC Actuator for Mixing Valves

#### Technical data

Torque	5 Nm
Angle of rotation	90°
Shift time	120 s
Control	3-point
Auxiliary switch	no
Power supply	230 V AC
Max. power input	2,5 VA
IP rating	IP42
Protection class	II per EN 60730-1
Ambient temperature	0 - 40 °C
Cable (cross-section - length)	3 x 0,5 mm <sup>2</sup> - 2 m