

CSE MIX W 5/4F Pump Station

v1.2_01/2019

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 25/7.5 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
Installation	16215



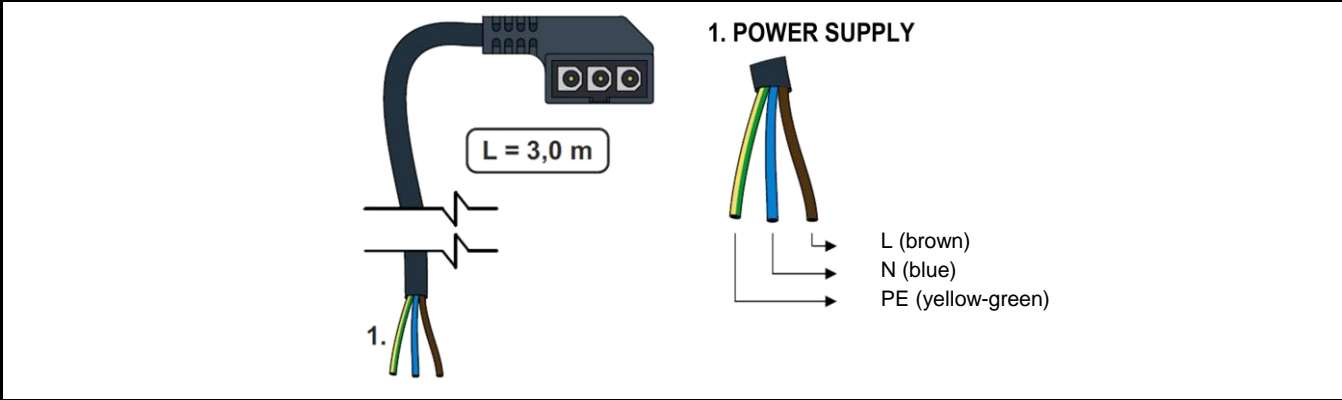
CSE MIX W 5/4F Pump Station Data	
Fluid operating temp.	5 - 110 °C
Max. working pressure	6 bar
Ambient temperature	5 - 40 °C
Max. relative humidity	95 % non condensing
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 220 mm
Total weight	4,0 kg
Connection	3 x G 5/4" F

WILO Yonos Para RS 25/7.5 RKC 130 mm Pump Data	
Electric data	
Power supply	230 V, 50 Hz
Power input (min./max.)	4/75 W
Current (min./max)	0,04/0,66 A
IP rating	IPX4D
Max. speed	4770 rpm
Energy efficiency index	≤ 0.21 per EN 16 297/3
Motor protection	integrated

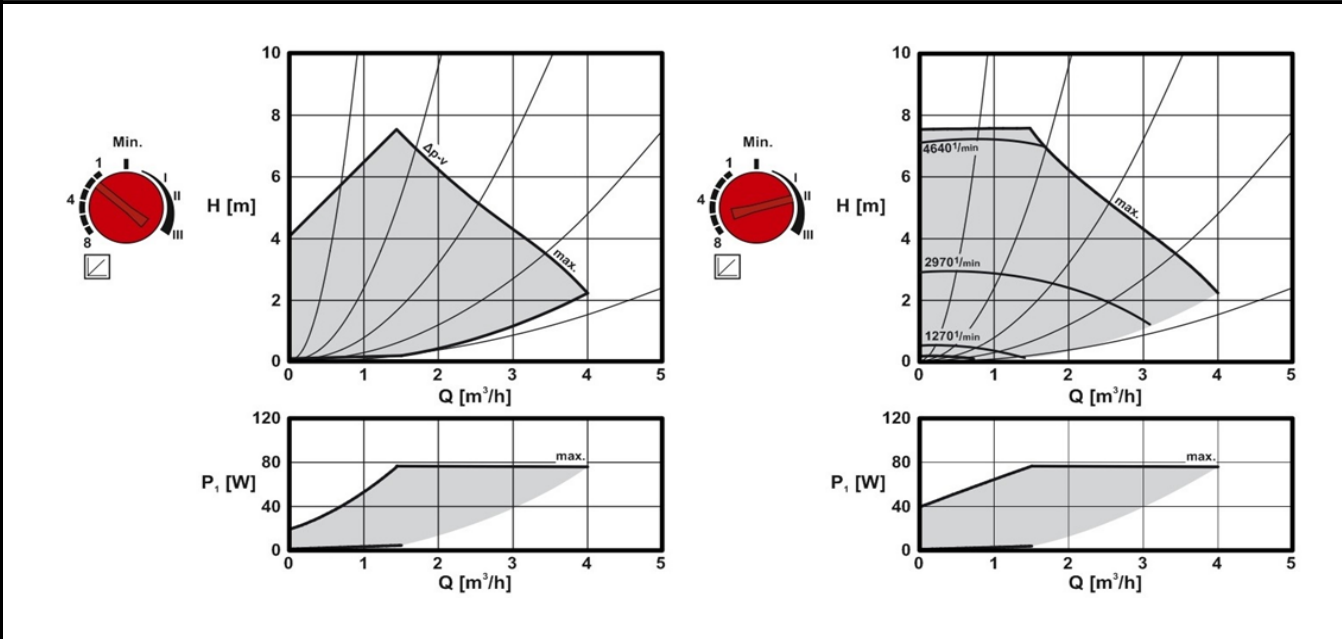
Min. pressures at the suction port to avoid cavitation	
Min. pressures at the suction port	0,05 bar at 50 °C
	0,43 bar at 95 °C

Operation data	
Fluid operating temp.	0 - 100 °C at 58 °C ambient temp.
Max. working pressure	6 bar
Max. delivery head	7,6 m

Connection of WILO Yonos PARA RS Pump - MOLEX connector



WILO Yonos Para RS Pump performance curves



LK 840 Mixing Valve

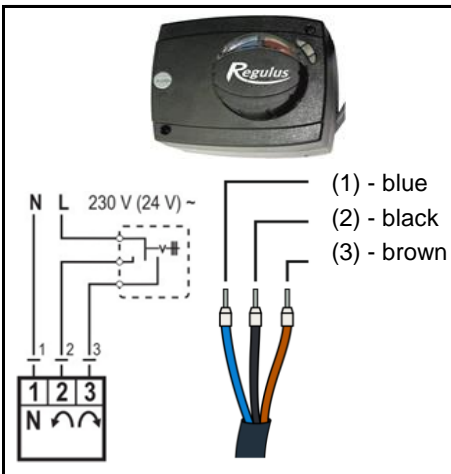
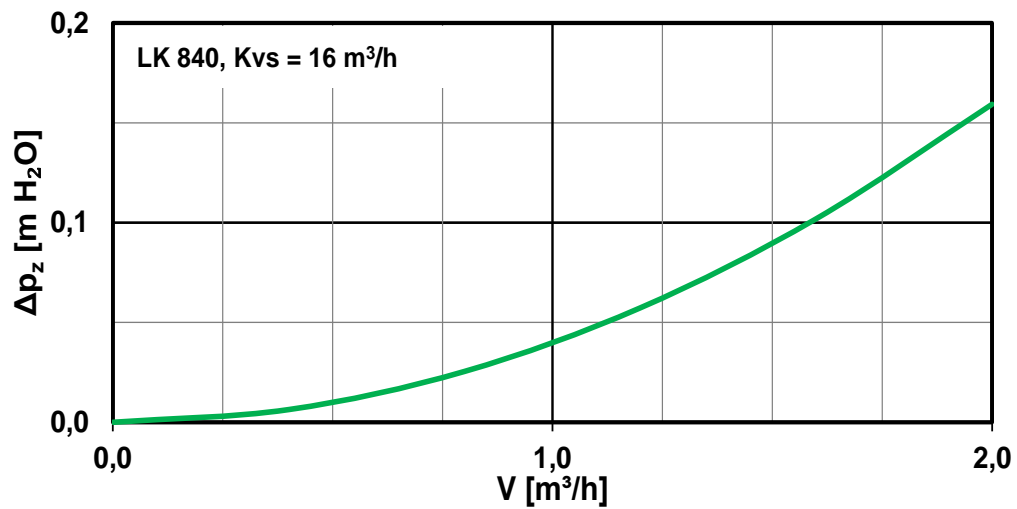
Technical data

Max. working temperature	5 - 110 °C (120 °C in short term)
Max. working pressure	10 bar
Ambient working temp.	5 - 60 °C
Valve Kvs	16 m ³ /hod
Max. pressure difference	5 m H ₂ O
Leakage rate	< 1 % Kvs at 5 m H ₂ O pressure diff.
Connection	3 x G 5/4" 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 ² - 2 m