

CSE MIX W 1M Pump Station

v1.3_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
Installation	16082



Accessories:
T-pieces (125 mm and 90 mm pitch)

CSE MIX W 1M 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	3,8 kg
Connection	2 x G 1" M, 1 x G 1" F

WILO Yonos Para RS 25/6 RKC 180 mm Pump Data

Electric data

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 ₂ O at 50 °C
	4.4 mH ₂ O at 95 °C

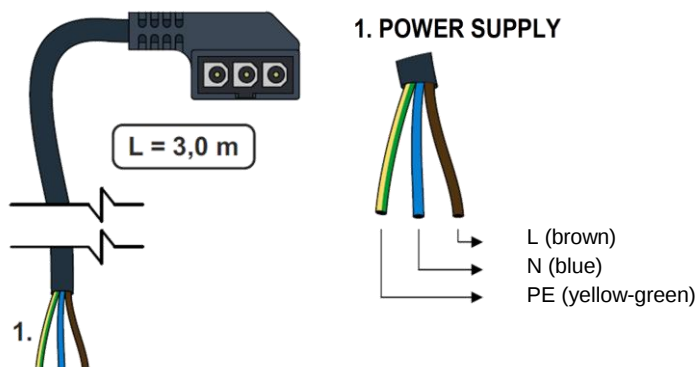
Operation data

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

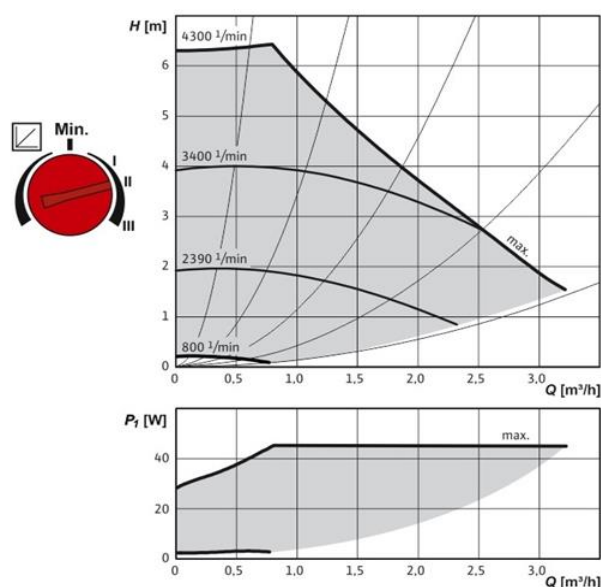
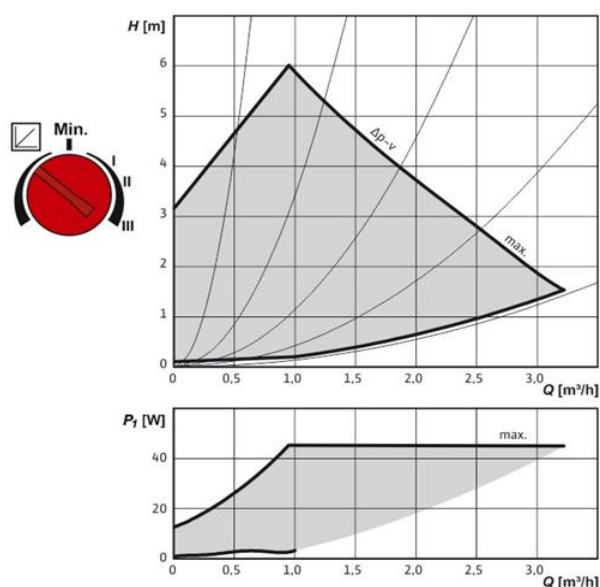
Accessories

Kit of a T-piece (125 mm pitch), 2 threaded fittings, 1 ball valve	code 16922
T-piece, 1" M/Fu/M, 125 mm pitch, incl. gasket	code 16659
T-piece, 1" M/Fu/M, 90 mm pitch, incl. gasket	code 16660
Coupler for valve, 1" Fu/F (union nut x F), incl. gasket	code 15694

Connection of WILO Yonos PARA RS Pump - MOLEX connector



WILO Yonos Para RS Pump performance curves



LK 840 Mixing Valve

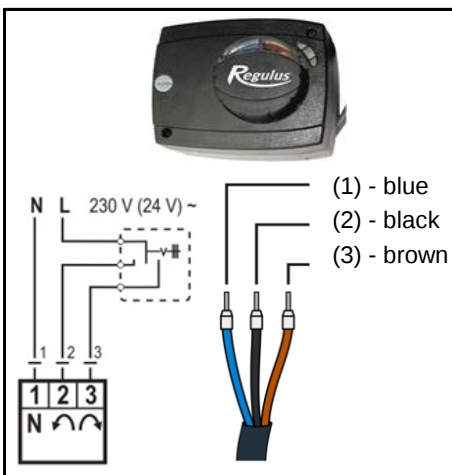
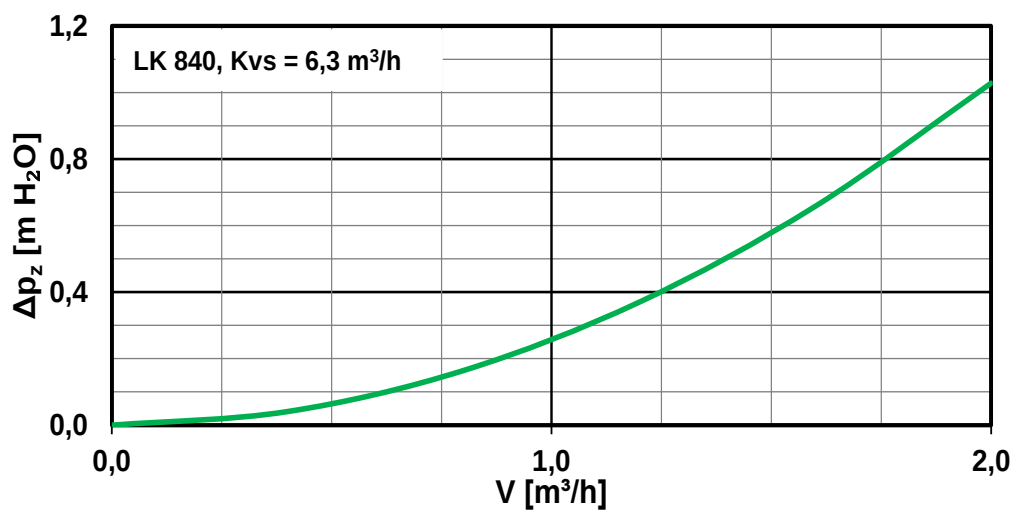
Technical data

Max. working temperature	5 - 110 °C (120 °C in short term)
Max. working pressure	10 bar
Ambient working temp.	5 - 60 °C
Valve Kvs	6,3 m³/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 1" M

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 mm² - 2 m