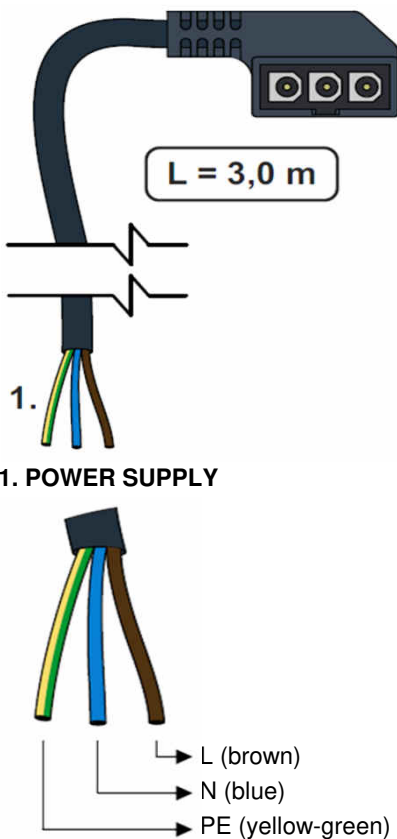




Main features	
Application	control of a solid fuel boiler return line or control of a fixed temperature flow into a mixed circuit
Description	consists of WILO Yonos Para RS 25/7.5 pump, LK 840 3-way mixing valve with ACC actuator, insulation
Function	keeping a constant temperature at a boiler return line or at a mixed heating circuit flow and turns on/off circulation pump depending on mode and temperature settings
Working fluid	water, water-glycol mixture (max. 1:1) or 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
Code	<b>16 385</b>

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



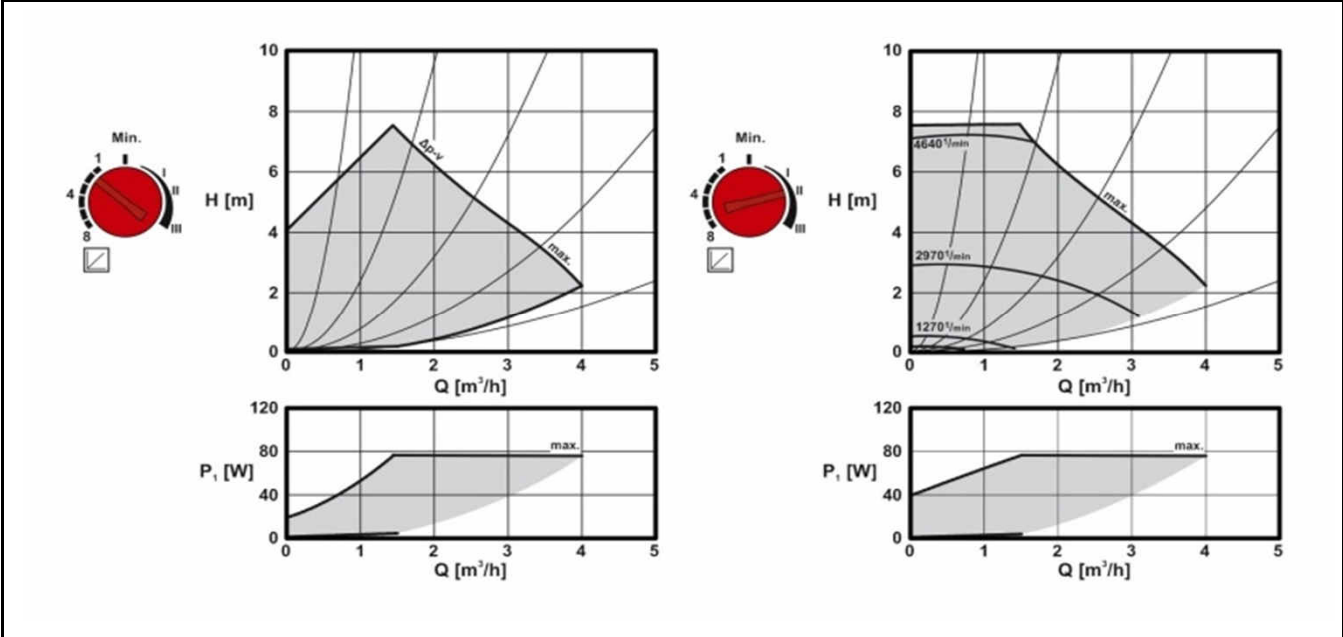
CSE MIX-FIX W 1F 7,5 Pump Station Data	
Fluid operating temp.	5 - 110 °C
Max. working pressure	6 bar
Ambient temperature	5 - 40 °C
Max. relative humidity	95 % non condensing
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 220 mm
Total weight	4,3 kg
Connection	3 x G1" F

WILO Yonos Para RS 25/7.5 RKC 130 mm Pump Data	
<b>Electric data</b>	
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. pressure at pump suction port	
Min. pressures at the suction port to avoid cavitation	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. ambient temperature	7,6 m

WILO Yonos Para RS Pump performance curves



LK 840 Mixing Valve

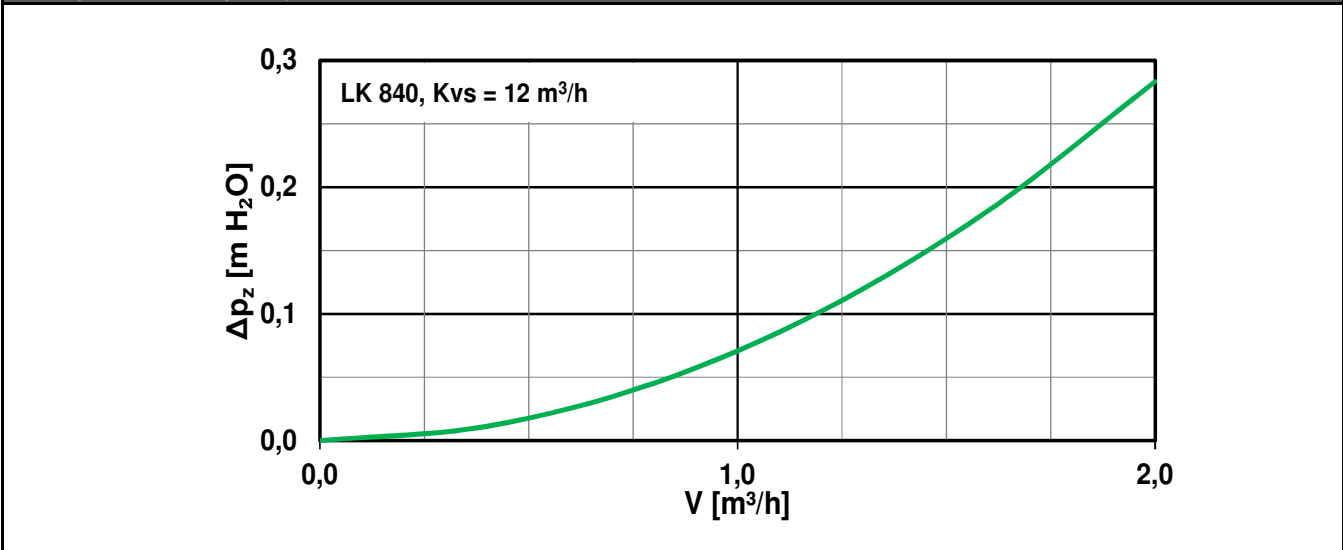
Technical data

Max. working temperature	5 - 110 °C (120 °C in short term)
Max. working pressure	10 bar
Ambient working temp.	5 - 60 °C
Valve Kvs	12 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 difference
Connection	3 x G 1" F

Materials

Body, member and spindle	brass
Seal	EPDM

Valve pressure drop diagram





### ACC Actuator for Mixing Valves

Technical data	
Torque	6 Nm
Angle of rotation	90°
Shift time	120 s
Control	3-point
Temperature sensors	2 x Pt1000 (1000 Ω → 0 °C)
Auxiliary switch	no
Power supply	230 V AC
Max. power input	3,5 VA
IP rating	IP42
Protection class	I per EN 60730-1
Ambient temperature	5 - 40 °C
Cable (cross-section - length)	3 x 0,5 mm <sup>2</sup> , 2 m, type E

### Actuator installation and sensor connection

