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Data sheet

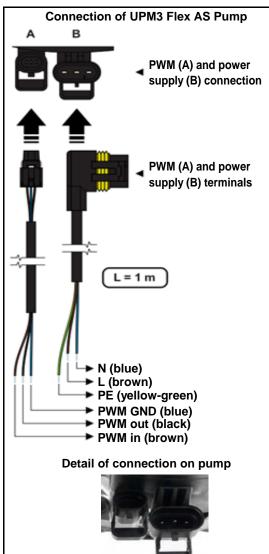
CSE MIX-FIX G 1M Pump Station

v1.5_09/2019





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 UPM3 Flex AS 25-70 180 pump, LK 840 3-way mixing valve with ACC40 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
Installation	15333



CSE MIX-FIX G 1M Pump Station Data	
Fluid operating temp.	5 - 110 °C
Max. working pressure	10 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	2 x G 1" M, 1 x G 1" F

UPM3 Flex AS 25-70 180 Pump Data

Electric data	
Power supply	230 V, 50 Hz
Power input (min./max.)	2/52 W
Current (min./max)	0,04/0,5 A
IP rating	IP44
Max. speed	5766 rpm
Weighted average power	≤ 23 W
Energy efficiency index	≤ 0.20 per EN 16 297/3
Motor protection	not needed

Min. pressures at the suction port to avoid cavitation	
Min. pressures at pump suction port	0.5 mH₂O at 75 °C
	5.1 mH₂O at 95 °C
	11 mH₂O at 110 °C

Operation data	
Fluid operating temp.	2 - 110 °C
Max. working pressure	10 bar
Max. ambient temperature	70 °C
Max. relative humidity	95 % non condensing

Power supply cables and PWM cables are included in supply.

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- ightarrow when the control button is pressed for less than 2 s, the currently selected curve is shown
- ightarrow with no PWM signal the pump runs at max. speed according to the selected curve
- ightarrow with PWM signal the pump speed changes with the signal value up to the maximum of the selected curve

UPM3 Flex AS pump performance curves 6 E 2 0,0 0,2 0,4 0,6 0,8 1,0 1,2 1,4 1,6 1,8 2,0 2,2 2,4 2,6 2,8 3,0 3,2 3,4 3,6 3,8 4,0 Q [m³/h] 60 50 40 30 ₾ 20 10 0,0 0,2 0,4 0,6 0,8 1,0 1,2 1,4 1,6 1,8 2,0 2,2 2,4 2,6 2,8 3,0 3,2 3,4 3,6 3,8 4,0

Q [m³/h]

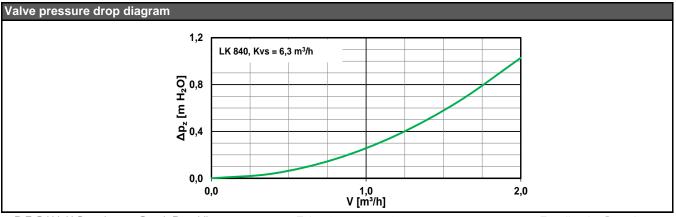
Curve	Max. H	Max. P₁
	(upper graph)	(lower graph)
1	4 m	25 W
2	5 m	33 W
3	6 m	39 W
4	7 m	52 W



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/h
Max. pressure difference	5 m H₂O
Leakage rate	< 1 % Kvs at 5 m H ₂ O pressure difference
Connection	3 x G 1" M

Materials	
Body, member and spindle	brass
Seal	EPDM



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ACC Actuator for Mixing valves	
Technical data	
Torque	6 Nm
Angle of rotation	90°
Shift time	120 s
Control	to constant temperature
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 60730-3
Ambient temperature	5 - 40 °C
Cable (cross-section, length, plug)	3 x 0,5 mm², 2 m, type E

