

Data sheet

CSE MIX G 1F Pump Station

- 1/3 v1.4_09/2019

Main features			
Application	control to a fixed temperature of output into a mixed circuit or control of a solid fuel boiler return line		
Description	consists of UPM3 Flex AS 25-70 180 pump, LK 840 3-way mixing valve with AVC actuator, insulation		
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	16401		





CSE MIX G 1F 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	3,9 kg
Connection	3 x G 1" F

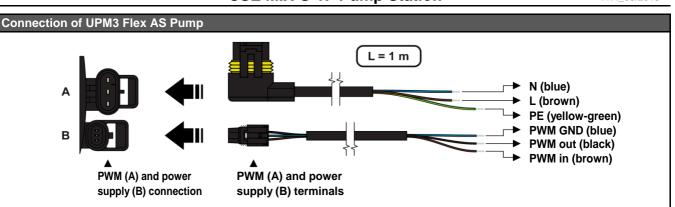
UPM3 Flex AS 25-70 180 Pump Data

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 pump suction port to avoid cavitation		
0.5 mH₂O at 75 °C		
Min. pressures at pump suction port 5.1 mH ₂ O 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				

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Selected profile display during pump operation control button curve 1 (4 m) curve 2 (5 m) curve 3 (6 m) curve 4 (7 m)

Power supply cables and PWM cables are included in supply.

- \rightarrow 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 Curve Max. H Max. P₁ (lower graph) (upper graph) 1 4 m 25 W 亘 2 5 m 33 W I 6 m 39 W 2 4 52 W 7 m 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] 50 40 30 **a** 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]

I K 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/h				
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" F				

Materials			
Body, member and spindle	brass		
Seal	EPDM		



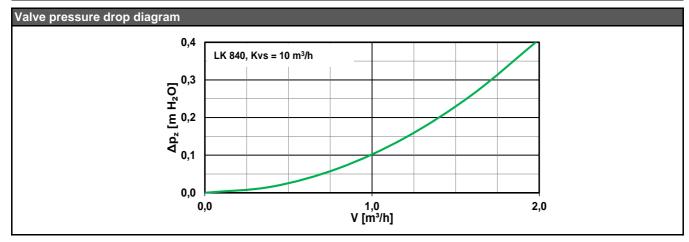
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- 3/3 v1.4_09/2019

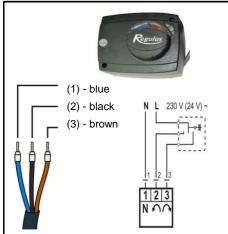
E-mail: sales@regulus.eu

Web: www.regulus.eu



Tel.: +420 241 765 191

Fax: +420 241 763 976



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 2,5 VA Max. power input IP rating IP42 II per EN 60730-1 Protection class Ambient temperature 0 - 40 °C Cable (cross-section - length) 3 x 0,5 mm² - 2 m