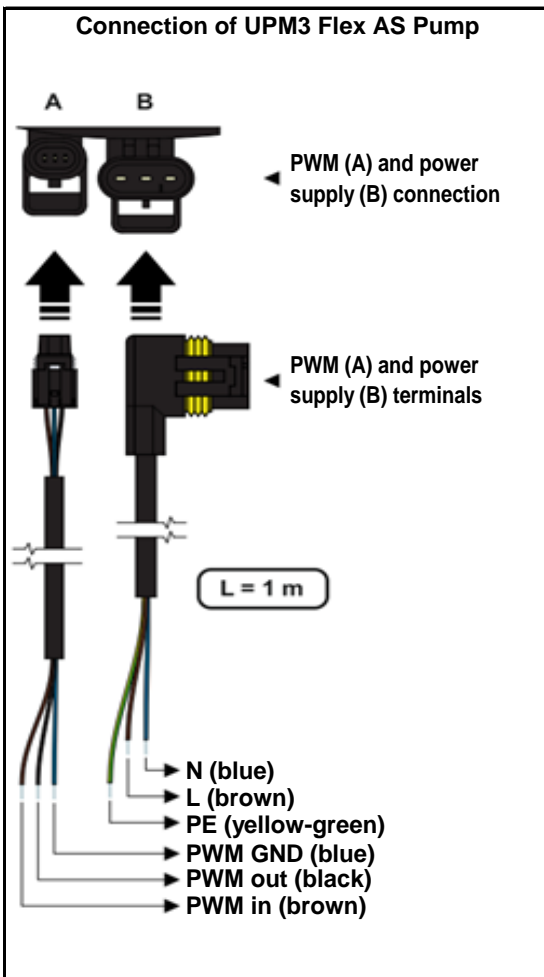




Main features	
Application	keeping water temperature at boiler (fire) inlet by means of a thermostatic valve
Description	consists of UPM3 FLEX AS pump, TSV5B valve (with automatic by-pass balancing), thermometer, insulation
Function	pump station for solid-fuel boilers and fires, prevents low-temperature corrosion and boiler clogging
Working fluid	water, water-glycol mix (max. 1:1) or water-glycerine mix (max. 2:1)
Installation	on return pipe, min. pipe centre distance from wall = 100 mm

Code	max. boiler output
16 393 for 45 °C valve opening temperature	max. 67 kW
16 394 for 50 °C valve opening temperature	max. 62 kW
16 395 for 55 °C valve opening temperature	max. 53 kW
16 396 for 60 °C valve opening temperature	max. 47 kW
16 397 for 65 °C valve opening temperature	max. 38 kW
16 398 for 70 °C valve opening temperature	max. 32 kW



Pump Station Technical Data	
Fluid operating temp.	2 - 95 °C
Max. working pressure	10 bar
Ambient temperature	70 °C
Max. relative humidity	95 % non condensing
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	305 x 145 x 220 mm
Total weight	3,7 kg
Connection	3 x G 5/4" F

Accessories	
By-pass with non-return v.	code 16 139

UPM3 Flex AS 25-75 130 Pump Data	
<b>Electric data</b>	
Power supply	230 V, 50 Hz
Power input (min./max.)	2/60 W
Current (min./max)	0,04/0,58 A
IP rating	IP44
Max. speed	5991 rpm
Weighted average power	≤ 28 W
Energy efficiency index	≤ 0.20 per EN 16 297/3
Motor protection	not needed

Min. pressure at pump suction port	
Min. pressures at the suction port to avoid cavitation	0.05 m at 75 °C 0.50 m at 95 °C 1,08 m at 110 °C

## REGOMAT E G 5/4 Pump Station

v1.1\_02/2018

### Detail of connection on pump



### 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.

### Selected profile display during pump operation

control button



curve 1 (4 m)



curve 2 (5 m)



curve 3 (6 m)



curve 4 (7,5 m)

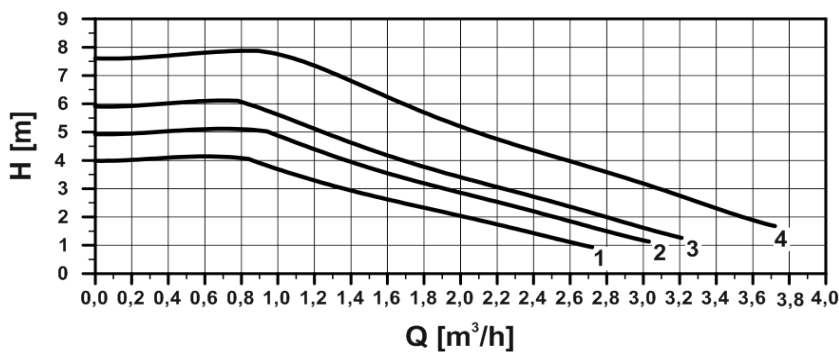


→ when the control button is pressed for less than 2 s, the currently selected curve is shown

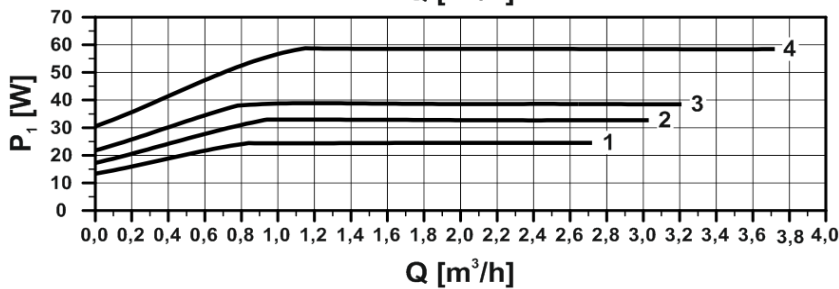
→ with no PWM signal the pump runs at max. speed according to the selected curve

→ with PWM signal the pump speed changes with the signal value up to the maximum of the selected curve

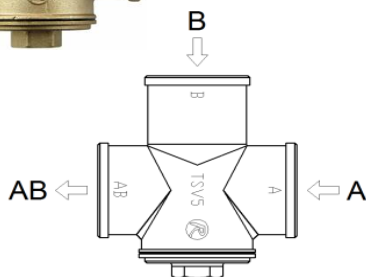
### UPM3 Flex AS pump performance curves



Curve	Max. H (upper graph)	Max. P <sub>1</sub> (lower graph)
1	4,0 m	25 W
2	5,0 m	33 W
3	6,0 m	39 W
4	7,5 m	60 W



### TSV5B valve



### TSV5B Thermostatic valve data

#### Technical data

Max. operating temp.	95 °C
Max. working pressure	6 bar
Valve opening temp.	as the thermostatic element
Range of control	t <sub>v,o</sub> + 5 °C
Valve Kvs (A→AB direction)	7,0 m³/hod
Valve Kvs (B→AB direction)	4,9 m³/hod
Connection	3x G 5/4" F
Nominal inner diameter	DN 32

#### Materials

Housing, cone and plug	brass
Spring	stainless steel
Element and plug seal	EPDM
Cone seal	NBR

Valve pressure drop diagram

