

RGMAT EA W Pump Station

v1.2_04/2020



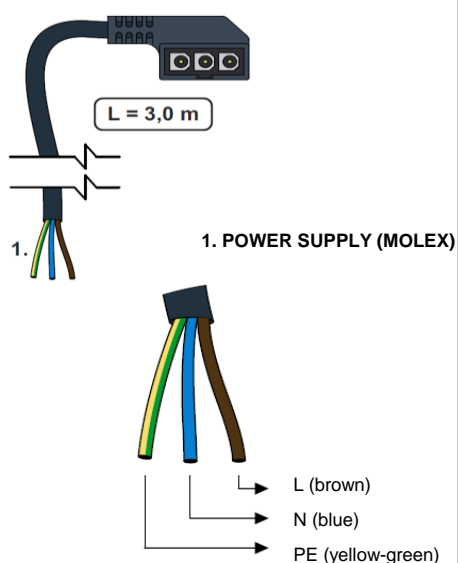
Main features	
Application	keeping water temperature at boiler (fire) inlet by means of a thermostatic valve
Description	consists of WILO Yonos PARA RS 25/6 RKC pump, threaded fittings with shut-off ball valve, TSV3 valve with nut (with manual by-pass balancing), thermometer, insulation
Function	pump 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; for proper operation it is necessary to install a valve at the B inlet to balance flowrate

Code	max. boiler output
16031 for 72 °C valve opening temperature	max. 25 kW at ΔT 20 K and a fully open balancing valve
16036 for 65 °C valve opening temperature	max. 25 kW at ΔT 20 K and a fully open balancing valve

Pump Station Technical Data	
Fluid operating temp.	0 - 95 °C
Max. working pressure	6 bar
Ambient temperature	58 °C
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 220 mm
Total weight	3,5 kg
Connection	3 x G 1" F

Accessories	
By-pass with non-return valve	code 16126

Connection of WILO Yonos PARA RS Pump



Wilo Yonos PARA RS 25/7.5 Pump Data

Electric data	
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

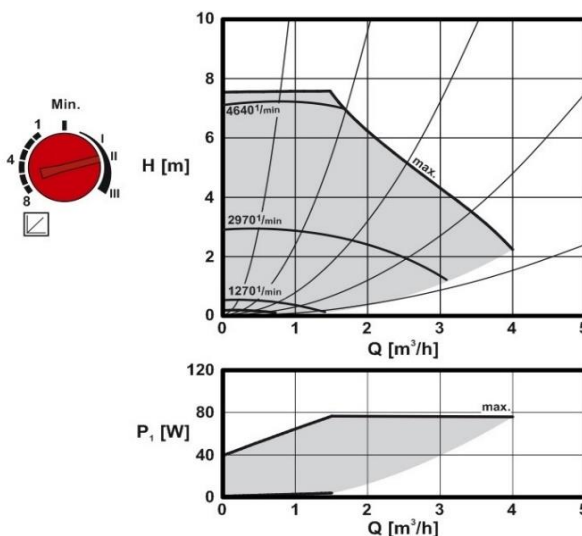
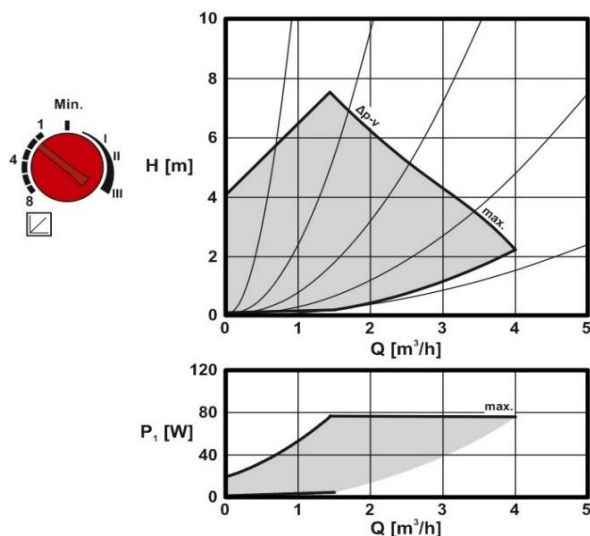
Min. pressures at pump suction port to avoid cavitation

Min. pressures at the suction port	0.5 mH ₂ O at 50 °C
	4.4 mH ₂ O at 95 °C

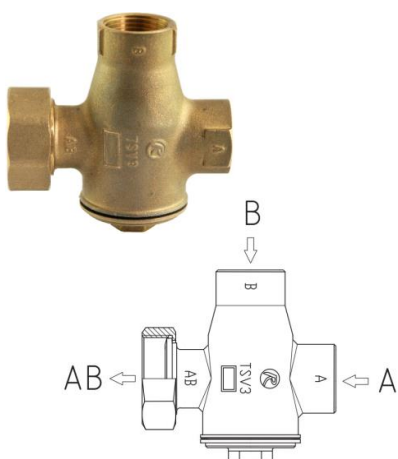
Operation data

Fluid operating temp.	0 - 100 °C at 58 °C ambient temp.
Max. working pressure	6 bar
Max. ambient temperature	7,6 m

WILO Yonos Para RS Pump performance curves



TSV3 valve



TSV3 Thermostatic valve data

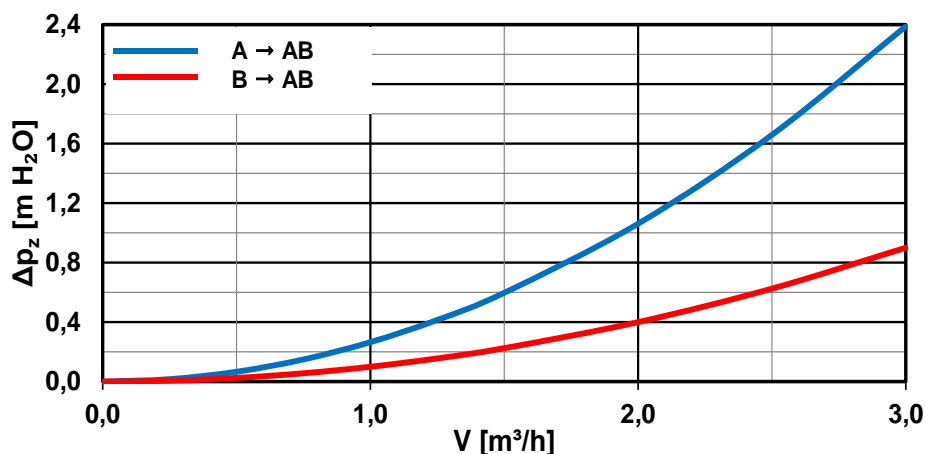
Technical data

Max. operating temp.	95 °C
Max. working pressure	6 bar
Valve opening temp.	as the thermostatic element
Range of control	$t_{v,o} + 5\text{ °C}$
Valve Kvs (A→AB direction)	6,2 m³/hod
Valve Kvs (B→AB direction)	10,1 m³/hod
Connection	2x G 1" F, 1x G 6/4" Fu union nut
Nominal inner diameter	DN 25

Materials

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

Valve pressure drop diagram



Kvs value, and thus also the pressure drop in the B → AB direction, depends on the by-pass balancing valve settings.