



CSE OTS ZV W

Installation and Operation Manual
CSE OTS ZV W PUMP STATION
with non-return valve, for heating systems

EN

CSE OTS ZV W

1. Introduction

CSE OTS ZV W pump station is designed to be installed in unmixed hydraulic circuits in heating systems where a non return valve is required. The pump station provides circulation through the concerned heating circuit, preventing circulation in the opposite direction.

2. Description of the pump station

The pump station consists of a Wilo Yonos PARA RS pump including a power cable, a ball valve with a non-return valve, fittings with a ball shut-off valve, thermometer and insulation.

Main features	
Application	on a flow pipe in heating systems
Description	consists of a Wilo Yonos PARA RS pump, a ball valve with a non-return valve, fittings with a ball valve, thermometer and insulation
Working fluid	water, water-glycol mixture (max. 1:1) or water-glycerine mixture (max. 2:1)
Installation	on a flow pipe in heating systems, the min. distance of the pipe axis from a wall is 100 mm
Code	15 892

Technical data of CSE OTS ZV W pump station	
Fluid working temperature	2 - 95 °C
working pressure	6 bar
Max. ambient temperature	58 °C
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 150 mm
Total weight	2.75 kg
Connections	2x G 1" F

Ball valve with non-return valve

Operation data	
Max. fluid temperature	120 °C
Max. working pressure	16 bar

3. Flow direction



4. Wilo Yonos PARA RS 25/1-6 RKC Pump

Design

Wet-running circulation pump with G 6/4" M connection.

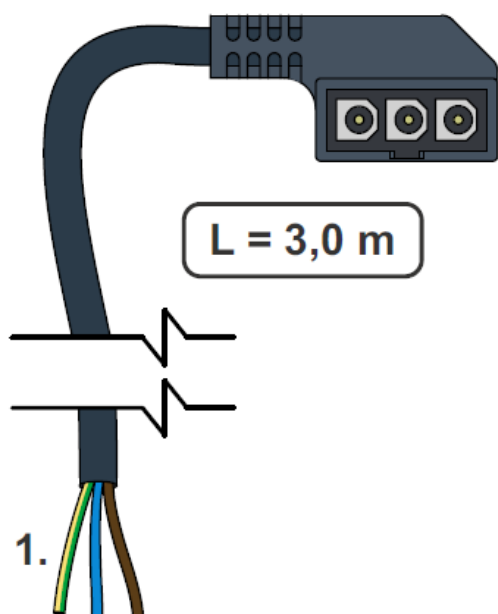
Electrical data	
Power supply	230 V, 50 Hz
Power input (min./max.)	3/45 W
Current (min./max.)	0.03/0.44 A
Max. speed	4300 rpm
Speed control	frequency inverter
Energy Efficiency Index	≤ 0.20 by EN 16 297/3
IP rating	IPX4D
Motor protection	integrated

Minimum pressure at the suction port	
Min. pressure at the suction port to avoid cavitation	0.05 bar at 50 °C
	0.43 bar at 95 °C

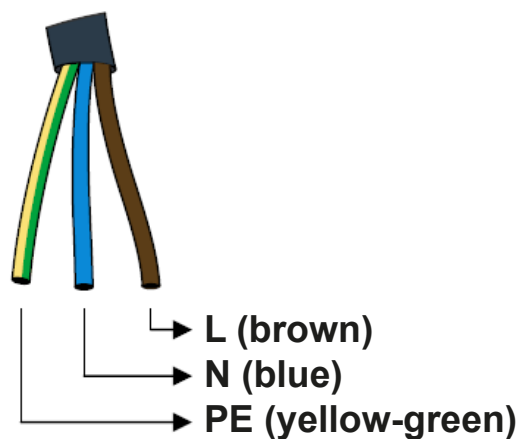


Operation data	
Fluid working temp.	0 to 100 °C at 58 °C ambient temperature
Max. working pressure	6 bar
Max. head	6.2 m

Wilo Yonos Para RS pump wiring

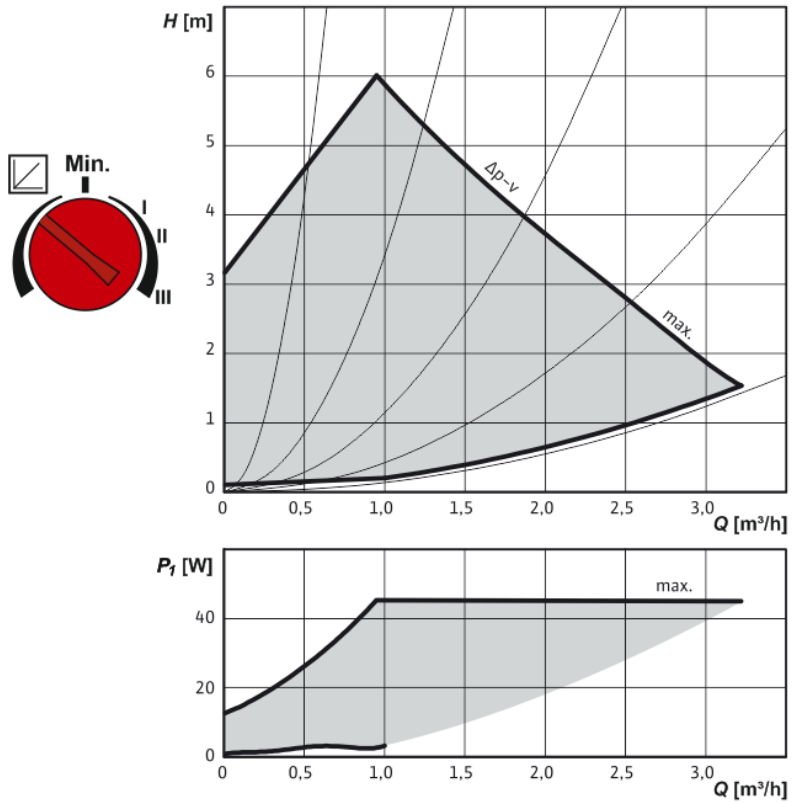


1. POWER SUPPLY (1~ 230 V, 50 Hz)

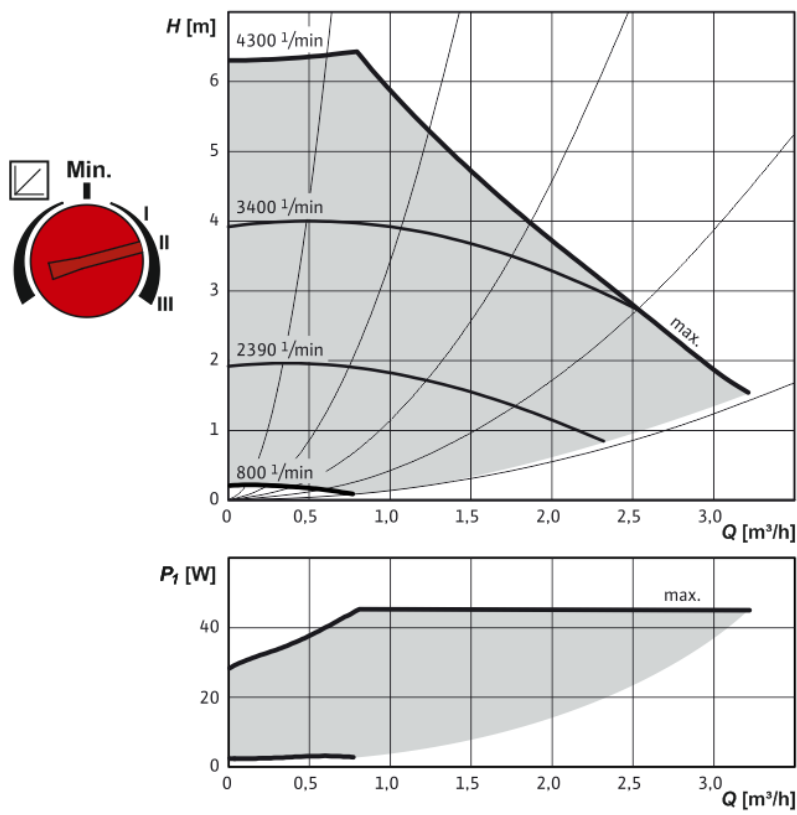


Performance curves

Characteristics of $\Delta p-v$ (variable)



Characteristics of $n= \text{const.}$



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