



Product range	Standard glandless pumps	Standard glandless pumps	Glanded special pumps
Series	Wilo-Star-Z Wilo-Star-ZD	Wilo-TOP-Z	Wilo-VeroLine-IP-Z
Field of application	Domestic hot water	Domestic hot water	Domestic hot water
Duty chart			
Design	Glandless circulation pump with screwed connection	Glandless circulation pump with screwed connection or flange connection	Glanded circulation pump in in-line design with screwed connection
Application	Domestic hot water circulation systems in industry and in building services	Domestic hot water circulation systems in industry and in building services	For pumping drinking water, cold and hot water (in accordance with VDI 2035) without abrasive substances, in heating, cold water and cooling water systems
Volume flow Q max.	4.8 m ³ /h	65 m ³ /h	5 m ³ /h
Delivery head H max.	6.0 m	9 m	4.5 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to water hardness 3.2 mmol/l (18 °dH) max. +65 °C → In short-term duty (2 h) up to +70 °C → Mains connection 1~230 V, 50 Hz, or for Star-Z 25/2 DM 3~400 V, 50 Hz → Protection class IP 44 (IP 42 for Star-Z 15 TT) → Screwed connection Rp ½, Rp 1 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to a water hardness of 3.56 mmol/l (20 °dH) max. +80 °C → Mains connection: <ul style="list-style-type: none"> - 1~230 V, 50 Hz (depending on type) - 3~400 V, 50 Hz - 3~230 V, 50 Hz (with optional switching plug) → Protection class IP X4D → Nominal diameter Rp 1 to DN 50 → Max. operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar 	<ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to a water hardness of 4.99 mmol/l (28 °dH) max. +65 °C → In short-term duty (2 h) up to +110 °C → Heating water -8 °C to +110 °C → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Protection class IP 44 → Nominal diameter Rp 1 → Max. operating pressure 10 bar
Equipment/function	<ul style="list-style-type: none"> → Constant speed or, for Star-Z 25/6, three selectable speed stages → Blocking-current proof motor, motor protection not required → Quick connection with spring clips → Thermal insulation as standard for Star-Z 15 TT → Star-Z 15 TT with integrated timer and thermostat, LCD display with symbolic language and automatic detection of the thermal disinfection of the domestic hot water tank, as well as ball shut-off valve on the suction side and non-return valve on the pressure side → Star-ZD version as double pump 	<ul style="list-style-type: none"> → Pre-selectable speed stages → Thermal insulation as standard → All plastic parts that come into contact with the fluid fulfil KTW recommendations → Combination flange PN 6/PN 10 (DN 40 to DN 65) → Extendible motor protection, signal and display functions → Full motor protection → Cable inlet into terminal box possible on both sides (starting from P1 ≥ 250 W) with integrated strain relief 	<ul style="list-style-type: none"> → Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Screwed connection → Motor with one-piece shaft
Special features	<ul style="list-style-type: none"> → All plastic parts that come into contact with the fluid fulfil KTW recommendations 	<ul style="list-style-type: none"> → Collective fault signal as potential-free contact (depending on type) → Rotation control lamp indicates the correct direction of rotation (only for 3~) → Thermal insulation as standard 	<ul style="list-style-type: none"> → High resistance to corrosive fluids due to stainless steel housing and Noryl impeller → Wide range of applications due to suitability for water hardness up to 5 mmol/l (28 °dH) → All plastic parts that come into contact with the fluid fulfil KTW recommendations
Information	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>