

Series description: Wilo-VeroTwin-DPL





Glanded double pump in in-line design with flange connection

Application

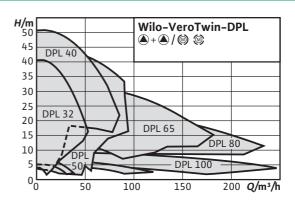
For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling and cold water without abrasive substances in heating, cold water and cooling water systems

Type key Example	DPL 40/1604/2	
DPL	In-line double pump	
40	Nominal diameter DN of the pipe connection	
160	Nominal impeller diameter	
4	Nominal motor power P ₂ in kW	
2	Number of poles	

- Special features/product advantages
 High-efficiency motors as standard; from 0.75 kW nominal motor power: motors with IE2 technology
- Reduction of space required and installation costs due to double pump
- Main/standby mode or peak-load operation (by means of external auxiliary device)
- Standard condensate drainage holes in the motor housings and
- High corrosion protection thanks to cataphoretic coating
- Series version: Motor with one-piece shaft
- Version N: Standard motor B5 or V1 with stainless steel plug shaft
- Bidirectional mechanical seal with forced flushing
- Easy to install thanks to feet with threaded holes on the pump housing for all flange-end pumps

Technical data

- Permissible temperature range -20 °C to +120 °C
- Mains connection 3~400 V, 50 Hz (others on request)
- Protection class IP 55
- · Nominal diameter DN 32 to DN 100
- Max. operating pressure 10 bar (special version: 16 bar)



Description/design

Single-stage, low-pressure double pump in in-line design with Switchover valve

- Mechanical seal
- Flange connection with pressure measuring connection R $^{1}/_{8}$
- Motor with one-piece shaft

- Pump housing and lantern: EN-GJL-250
- Impeller: PP fibreglass-reinforced /ENGJL200 (depending on pump tvpe)
- Shaft: 1.4021
- Mechanical seal: AQ1EGG; other mechanical seals on request

Scope of delivery • Pump

- Installation and operating instructions

- H5 variant with PN16 housing (at additional charge)
- Motors with efficiency class IE3, other voltages and frequencies, as well as ATEX approval on request

Accessories

- Mounting brackets for installation on a base
- PTC thermistor sensor, PTC resistor tripping relay
- Special motors
- Special mechanical seals
- Control systems CC-HVAC, VR-HVAC and switchgear

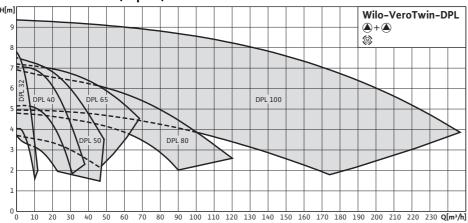
- General notes ErP (ecological design–) directive

 The benchmark for most efficient water pumps is MEI ≥ 0.70
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available at www.europump.org/efficiencycharts



Duty chart: Wilo-VeroTwin-DPL

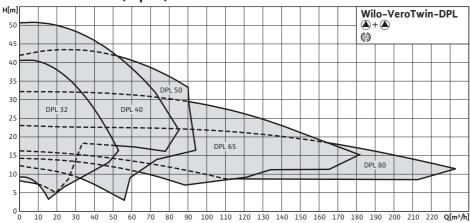
Wilo-VeroTwin-DPL (4-pole)





Duty chart: Wilo-VeroTwin-DPL

Wilo-VeroTwin-DPL (2-pole)





Technical data: Wilo-VeroTwin-DPL

Approved fluids (other fluids on request)		
Heating water (in accordance with VDI 2035)		
Water-glycol mixtures (for 20–40 vol.% glycol and fluid temperat		
Cooling and cold water		
Heat transfer oil	Special version at additional charge	
Permitted field of application		
Standard version for operating pressure	p _{max}	10 bar
Special version for operating pressure	p _{max}	16 bar
Temperature range at max. ambient temperature +40 °C	-10+120 °C (depending on the fluid)	
Max. ambient temperature	40 °C	
Installation in closed buildings		
Outdoor installation	Special version at additional charge	
Pipe connections		
Threaded connection	-	
Nominal connection diameters DN		32 -100
Flanges (according to EN 1092-2)	PN 10 (PN 16 on request)	
Flange with pressure-measurement connections	R 1/8	
Materials		
Pump housing	EN-GJL-250	
Lantern	EN-GJL-250	
Impeller	PPO-GF30	
Impeller (special version)	-	
Pump shaft	1.4021	
Mechanical seal	AQEGG	
Other mechanical seals	On request	
Electrical connection		
Mains connection		3~400 V, 50 Hz
Nominal speed	n	1450/2900 rpm
Motor/electronics		
Integrated full motor protection	Special version with PTC thermistor sensor (KLF) at additional charge	
Protection class	IP 55	
Insulation class	F	
Speed control	Wilo control system	
Motor winding up to 3 kW	230 V Δ/400 V Y, 50 Hz	
Motor winding from 4 kW	400 V Δ/690 V Y, 50 Hz	
Installation options		

www.wilo.co.uk 50 Hz EU



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Pipe installation (≤ 15 kW motor power)	
Support-bracket mounting	