

Series description: Wilo-Yonos MAXO-D



Design

Glandless circulation pump with threaded connection or flange connection, EC motor with automatic power adjustment.

Application

Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

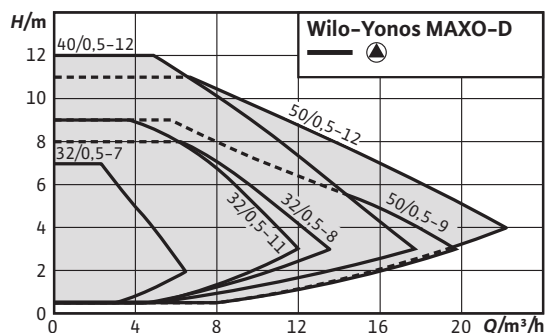
Type key

Example: **Wilo-Yonos MAXO-D 32/0.5-7**

Yonos MAXO	High-efficiency pump (screw-end or flange-end pump), electronically controlled
-D	Double pump
32/	Nominal connection diameter
0.5-7	Nominal delivery head range [m]

Special features/product advantages

- Very high efficiency due to ECM technology
- LED display for showing the set delivery head
- Quick and convenient electrical connection with Wilo plug
- Collective fault signal on all types for assuring system availability
- Simple installation due to PN 6/PN 10 combination flanges (with DN 32 to DN 65)
- Application possible in cooling/air-conditioning systems without ambient temperature limitation
- Pump housing with cataphoretic coating for preventing corrosion due to condensation formation
- Double pump for main/standby operation



Equipment/function

Operating modes

- Δp -c for constant differential pressure
- Δp -v for variable differential pressure

Manual functions

- Setting the operating mode
- Setting of pump output (delivery head)

Automatic functions

- Infinitely variable power adjustment according to the operating mode
- Deblocking function
- Soft start
- Integrated full motor protection

Signal and display functions

- Collective fault signal (potential-free NC contact)
- Fault signal light

- LED segment display for displaying the delivery head and fault codes

Double pump function

- Main/standby operation: for an automatic fault-actuated switchover, a corresponding switchgear must be provided on-site.
- Predefined control mode and set delivery head must be identical for both pumps.

Equipment

- Wrench attachment point on pump body (for threaded pipe union pumps)
- Quick electrical connection with Wilo plug. For the connection of the mains and SSM lines, with integrated strain relief
- For flange-end pumps: Flange versions
 - Standard version for pumps DN 32 to DN 65: Combination flange PN 6/10 (flange PN 16 acc. to EN 1092-2) for counter flanges PN 6 and PN 16

Scope of delivery

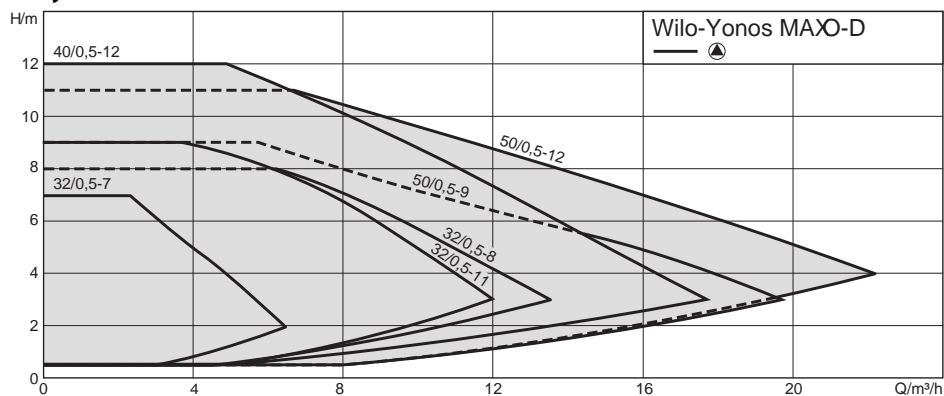
- Pump
- Incl. washers for flange screws (for nominal connection diameters DN 32 - DN 65)
- Including installation and operating instructions

Accessories

- Adapter fittings

Duty chart: Wilo-Yonos MAXO-D

Duty chart

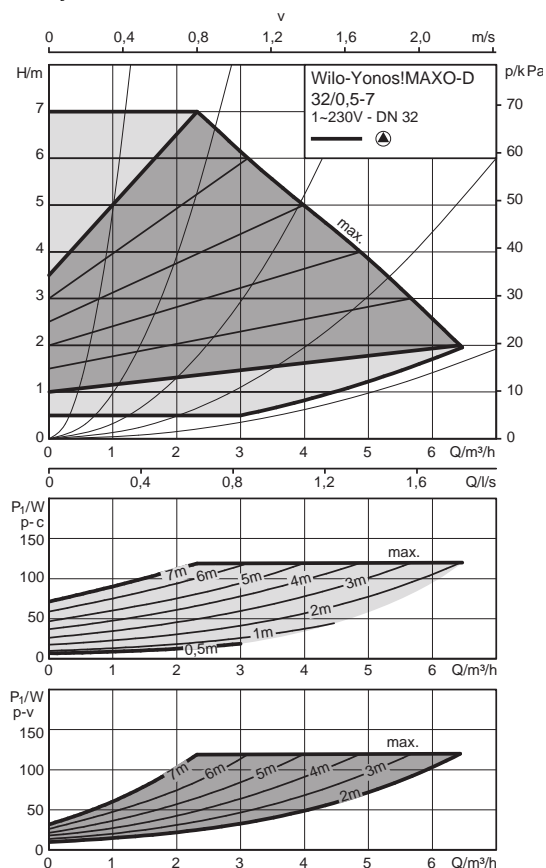


Product list: Wilo-Yonos MAXO-D

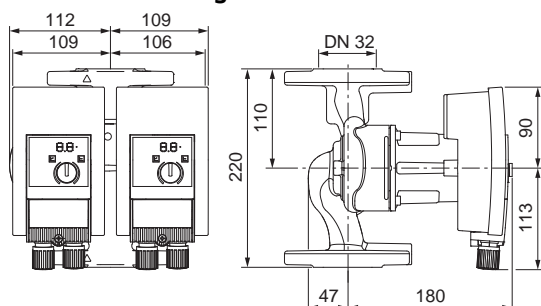
Type	Nominal flange diameter	Rated pressure	Overall length	Mains connection	Gross weight	Art no.
		3 1 E D U	O/mm		P N J	
Yonos MAXO-D 32/0,5-7	DN 32	6/10	220	1~230 V, 50/60 Hz	12,2	2120662
Yonos MAXO-D 32/0,5-11	DN 32	6/10	220	1~230 V, 50/60 Hz	18,9	2120663
Yonos MAXO-D 40/0,5-8	DN 40	6/10	220	1~230 V, 50/60 Hz	19,3	2120664
Yonos MAXO-D 40/0,5-12	DN 40	6/10	250	1~230 V, 50/60 Hz	26,6	2120665
Yonos MAXO-D 50/0,5-9	DN 50	6/10	280	1~230 V, 50/60 Hz	28,9	2120667
Yonos MAXO-D 50/0,5-12	DN 50	6/10	280	1~230 V, 50/60 Hz	28,5	2120668

Data sheet: Wilo-Yonos MAXO-D 32/0,5-7

Pump curves



Dimension drawing



Approved fluids (other fluids on request)

- Heating water (in accordance with VDI 2035)
- Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C	-20...+110 °C
Maximum permissible operating pressure	P_{max} 6/10 bar

Pipe connections

Flange	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)
Nominal flange diameter	DN 32
Overall length	l_o 220 mm

Motor/electronics

Energy efficiency index (EEI)	$\leq 0,27$
Electromagnetic compatibility	EN 61800-3
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Speed control	Frequency converter
Protection class	IP X4D
Insulation class	F
Mains connection	1~230 V, 50/60 Hz
Nominal motor power	P_2 90,00 W
Speed	n 1000 - 3700 rpm
Power consumption	P_1 5 - 120 W
Current consumption	I 0.08 - 1.00 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

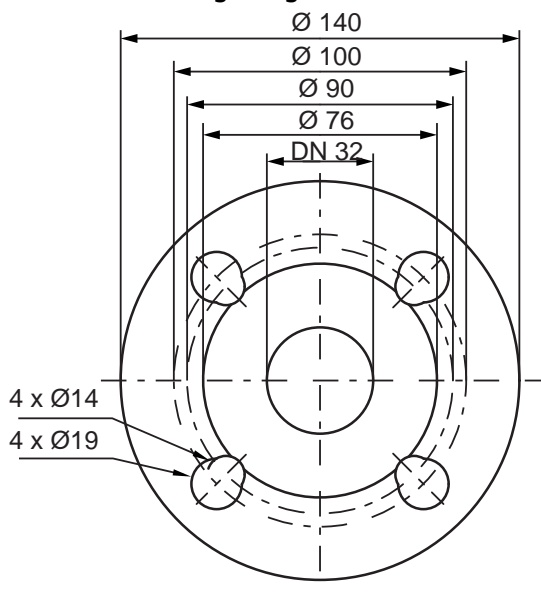
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPE - 30% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Yonos MAXO-D 32/0,5-7

Dimension drawing, flange

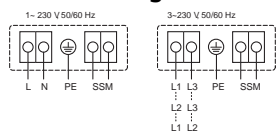


Minimum suction head at 50 / 95 / 110 °C	0.5 / 3 / 10 m
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Information for order placements

Make	Wilo
Type	Yonos MAXO-D 32/0,5-7
Art no.	2120662
Weight approx.	<i>m</i> 10 kg

Terminal diagram

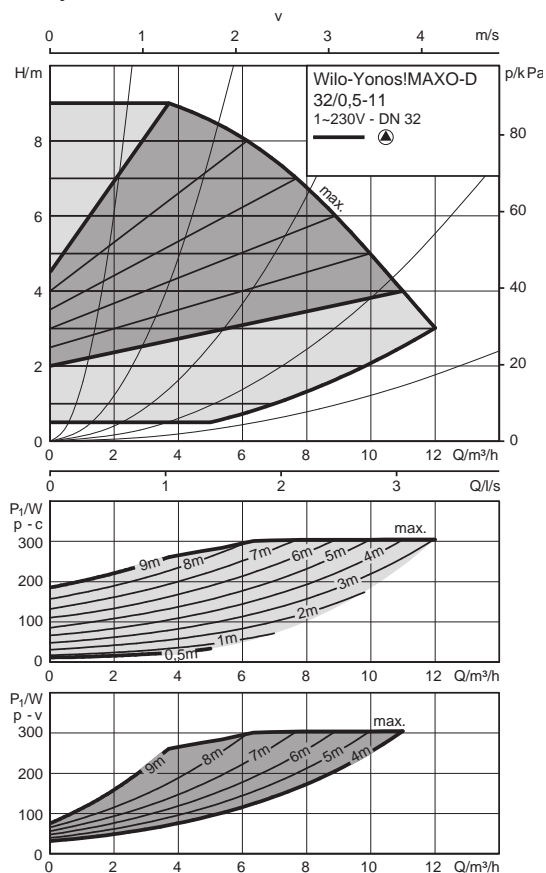


Collective fault signal
 (NC contact according to VDI 3814, load capacity 1 A, 250 V ~)
 SSM:
 For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

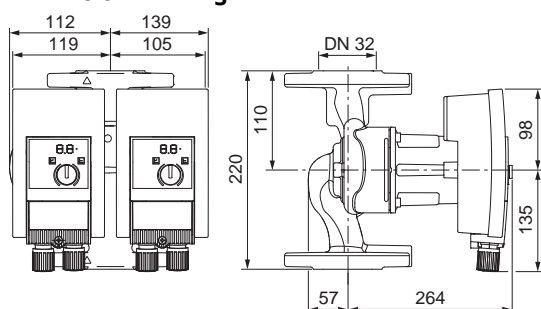


Data sheet: Wilo-Yonos MAXO-D 32/0,5-11

Pump curves



Dimension drawing



Approved fluids (other fluids on request)

- Heating water (in accordance with VDI 2035)
- Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C	-20...+110 °C
Maximum permissible operating pressure	P_{max} 6/10 bar

Pipe connections

Flange	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)
Nominal flange diameter	DN 32
Overall length	l_o 220 mm

Motor/electronics

Energy efficiency index (EEI)	$\leq 0,27$
Electromagnetic compatibility	EN 61800-3
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Speed control	Frequency converter
Protection class	IP X4D
Insulation class	F
Mains connection	1~230 V, 50/60 Hz
Nominal motor power	P_2 200,00 W
Speed	n 1000 - 4800 rpm
Power consumption	P_1 10 - 305 W
Current consumption	I 0.15 - 1.33 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

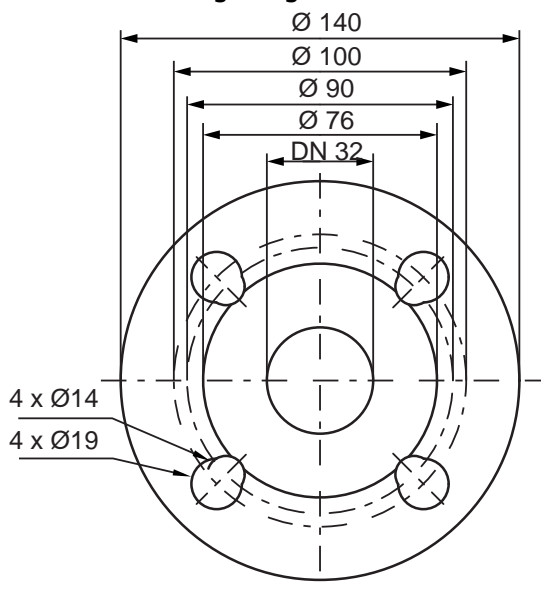
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Yonos MAXO-D 32/0,5-11

Dimension drawing, flange

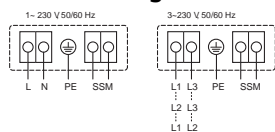


Minimum suction head at 50/95/110 °C 3/10/16 m

Information for order placements

Make	Wilo
Type	Yonos MAXO-D 32/0,5-11
Art no.	2120663
Weight approx.	<i>m</i> 17 kg

Terminal diagram



Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A, 250 V ~)

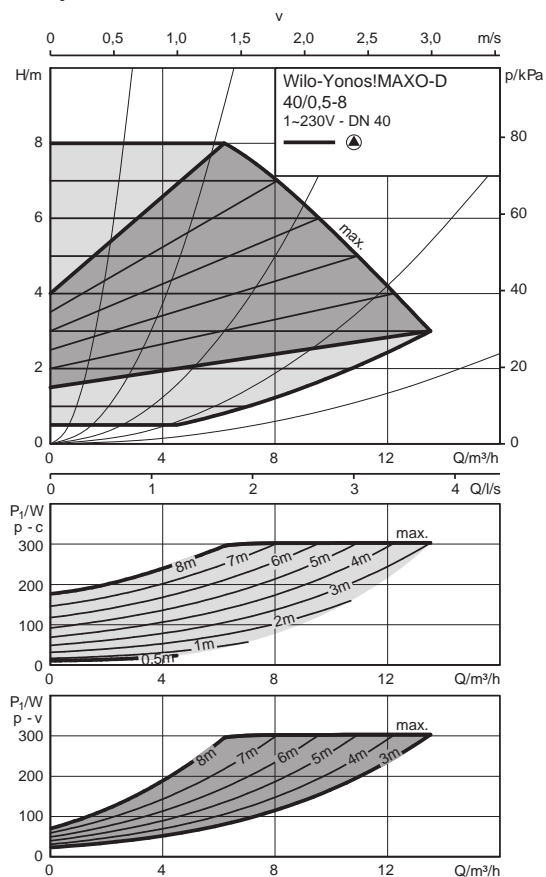
SSM:
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"



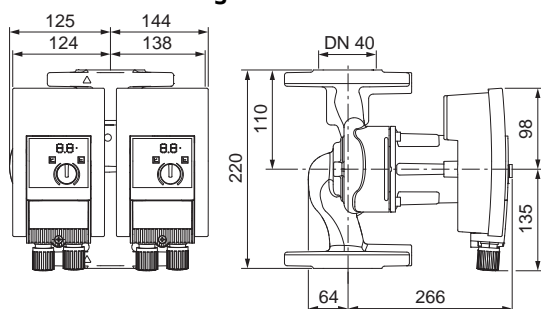
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Data sheet: Wilo-Yonos MAXO-D 40/0,5-8

Pump curves



Dimension drawing



Approved fluids (other fluids on request)

- Heating water (in accordance with VDI 2035)
- Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C	-20...+110 °C
Maximum permissible operating pressure	P_{max} 6/10 bar

Pipe connections

Flange	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)
Nominal flange diameter	DN 40
Overall length	l_o 220 mm

Motor/electronics

Energy efficiency index (EEI)	$\leq 0,27$
Electromagnetic compatibility	EN 61800-3
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Speed control	Frequency converter
Protection class	IP X4D
Insulation class	F
Mains connection	1~230 V, 50/60 Hz
Nominal motor power	P_2 200,00 W
Speed	n 1200 - 4800 rpm
Power consumption	P_1 10 - 305 W
Current consumption	I 0.15 - 1.33 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

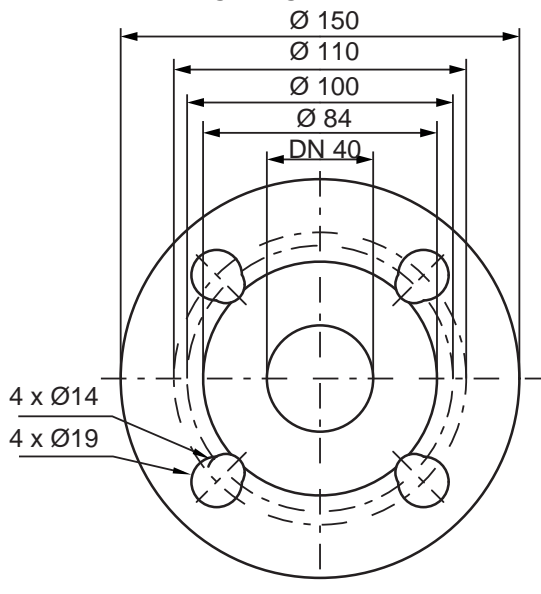
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Yonos MAXO-D 40/0,5-8

Dimension drawing, flange

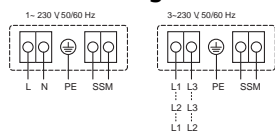


Minimum suction head at 50 / 95 / 110 °C	3 / 10 / 16 m
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Information for order placements

Make	Wilo
Type	Yonos MAXO-D 40/0,5-8
Art no.	2120664
Weight approx.	<i>m</i> 18 kg

Terminal diagram

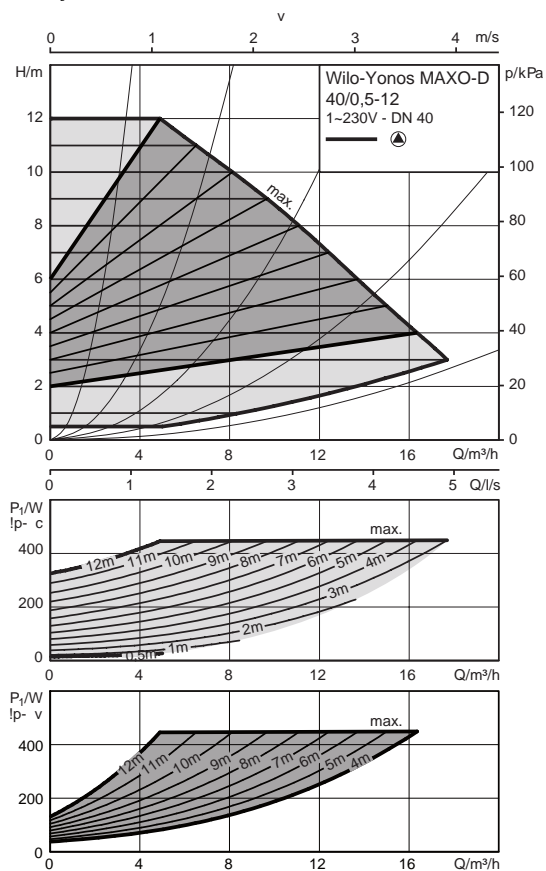


Collective fault signal
 (NC contact according to VDI 3814, load capacity 1 A, 250 V ~)
 SSM:
 For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

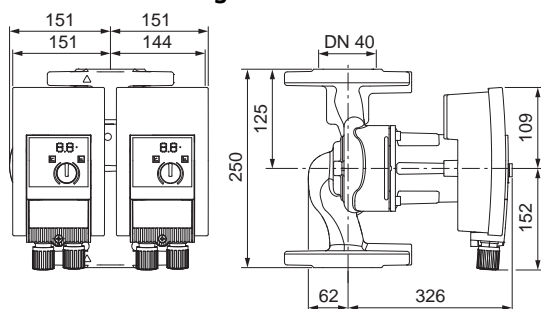


Data sheet: Wilo-Yonos MAXO-D 40/0,5-12

Pump curves



Dimension drawing



Approved fluids (other fluids on request)

- Heating water (in accordance with VDI 2035)
- Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C	-20...+110 °C
Maximum permissible operating pressure	P_{max} 6/10 bar

Pipe connections

Flange	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)
Nominal flange diameter	DN 40
Overall length	l_o 250 mm

Motor/electronics

Energy efficiency index (EEI)	$\leq 0,27$
Electromagnetic compatibility	EN 61800-3
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Speed control	Frequency converter
Protection class	IP X4D
Insulation class	F
Mains connection	1~230 V, 50/60 Hz
Nominal motor power	P_2 350,00 W
Speed	n 950 - 4500 rpm
Power consumption	P_1 15 - 450 W
Current consumption	I 0.17 - 2.00 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

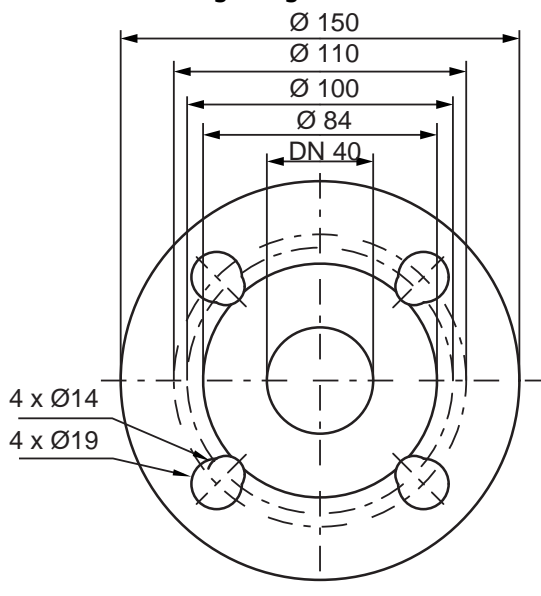
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Yonos MAXO-D 40/0,5-12

Dimension drawing, flange

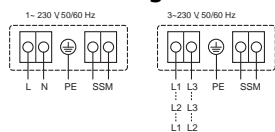


Minimum suction head at 50 / 95 / 110 °C 5 / 12 / 18 m

Information for order placements

Make	Wilo
Type	Yonos MAXO-D 40/0,5-12
Art no.	2120665
Weight approx.	<i>m</i> 24 kg

Terminal diagram



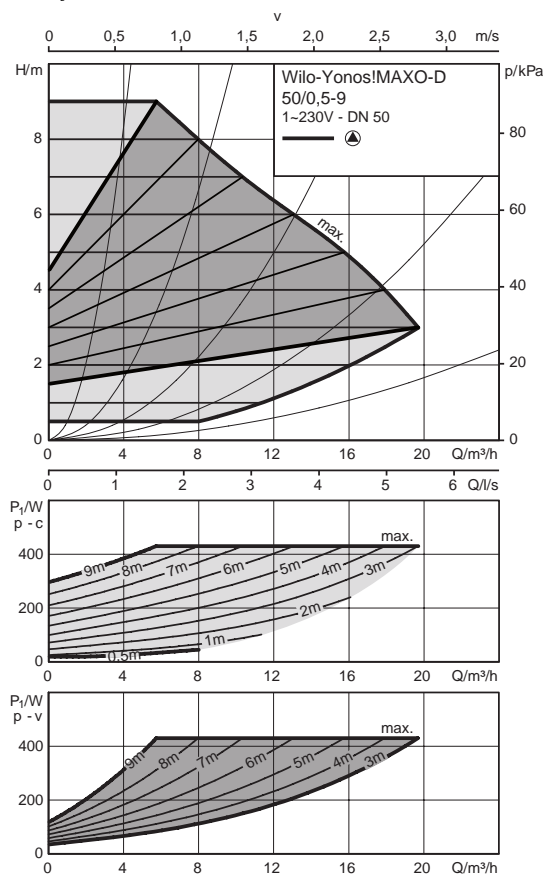
Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A, 250 V ~)

SSM:
For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

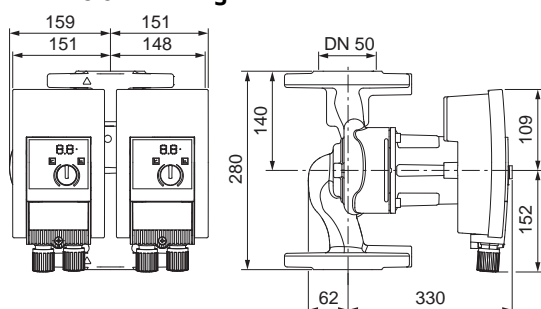


Data sheet: Wilo-Yonos MAXO-D 50/0,5-9

Pump curves



Dimension drawing



Approved fluids (other fluids on request)

- Heating water (in accordance with VDI 2035)
- Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C	-20...+110 °C
Maximum permissible operating pressure	P_{max} 6/10 bar

Pipe connections

Flange	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)
Nominal flange diameter	DN 50
Overall length	l_o 280 mm

Motor/electronics

Energy efficiency index (EEI)	$\leq 0,27$
Electromagnetic compatibility	EN 61800-3
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Speed control	Frequency converter
Protection class	IP X4D
Insulation class	F
Mains connection	1~230 V, 50/60 Hz
Nominal motor power	P_2 350,00 W
Speed	n 950 - 4000 rpm
Power consumption	P_1 15 - 430 W
Current consumption	I 0.17 - 1.88 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

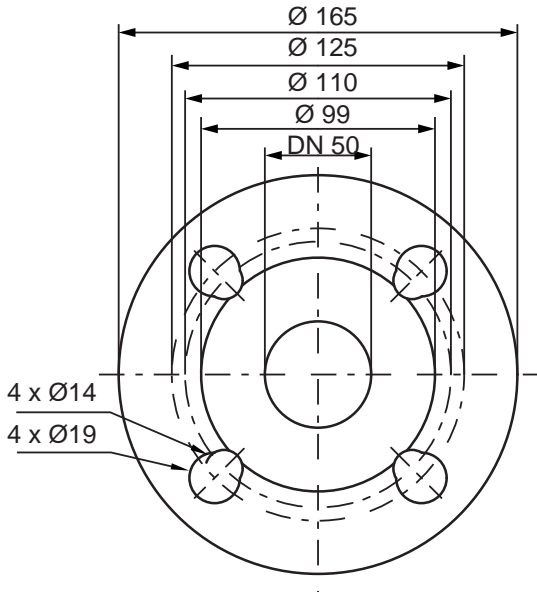
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Yonos MAXO-D 50/0,5-9

Dimension drawing, flange

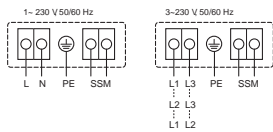


Minimum suction head at 50 / 95 / 110 °C	5 / 12 / 18 m
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Information for order placements

Make	Wilo
Type	Yonos MAXO-D 50/0,5-9
Art no.	2120667
Weight approx.	<i>m</i> 26 kg

Terminal diagram



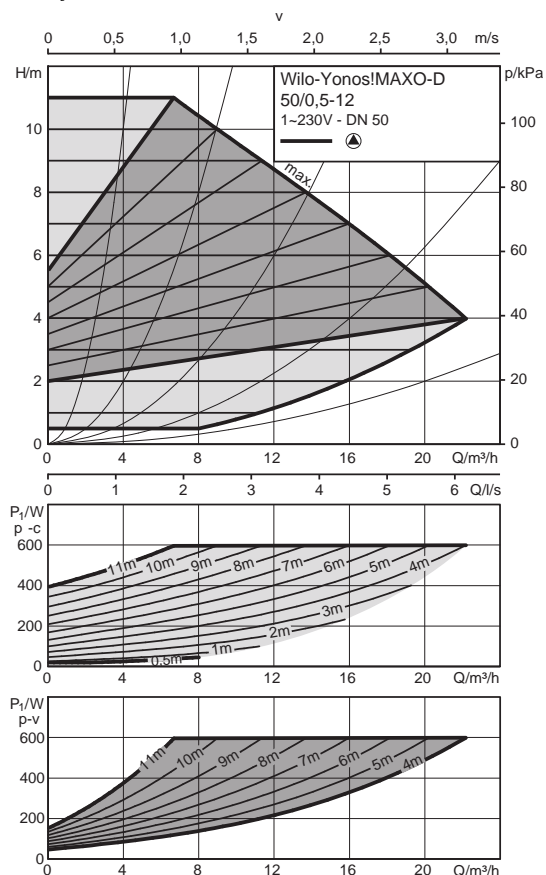
Collective fault signal
 (NC contact according to VDI 3814, load capacity 1 A, 250 V ~)
 SSM:
 For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"



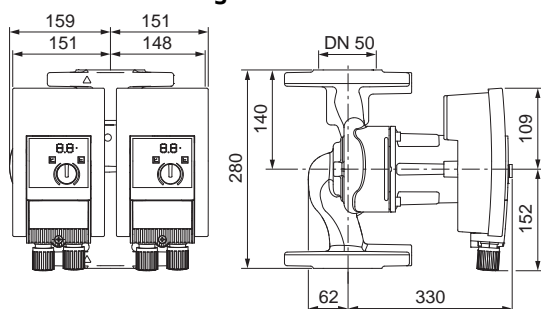
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Data sheet: Wilo-Yonos MAXO-D 50/0,5-12

Pump curves



Dimension drawing



Approved fluids (other fluids on request)

- Heating water (in accordance with VDI 2035)
- Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)

Permitted field of application

Temperature range at max. ambient temperature +40 °C	-20...+110 °C
Maximum permissible operating pressure	P_{max} 6/10 bar

Pipe connections

Flange	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)
Nominal flange diameter	DN 50
Overall length	l_o 280 mm

Motor/electronics

Energy efficiency index (EEI)	$\leq 0,27$
Electromagnetic compatibility	EN 61800-3
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Speed control	Frequency converter
Protection class	IP X4D
Insulation class	F
Mains connection	1~230 V, 50/60 Hz
Nominal motor power	P_2 500,00 W
Speed	n 950 - 4400 rpm
Power consumption	P_1 15 - 600 W
Current consumption	I 0.17 - 2.65 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

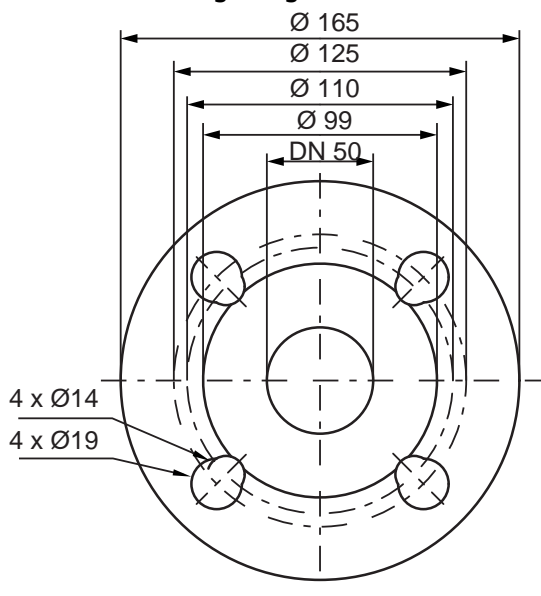
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X46Cr13)
Bearing	Carbon, metal impregnated

Minimum suction head at suction port for avoiding cavitation at water pumping temperature

Data sheet: Wilo-Yonos MAXO-D 50/0,5-12

Dimension drawing, flange

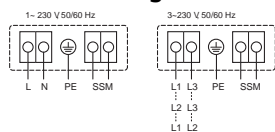


Minimum suction head at 50 / 95 / 110 °C 5 / 12 / 18 m

Information for order placements

Make	Wilo
Type	Yonos MAXO-D 50/0,5-12
Art no.	2120668
Weight approx.	<i>m</i> 26 kg

Terminal diagram



Collective fault signal
 (NC contact according to VDI 3814, load capacity 1 A, 250 V ~)
 SSM:
 For function, see Wilo catalogue, chapter "Pump management Wilo control, planning guide"

