

Series description: Wilo-Yonos MAXO-D



Design

Glandless circulation pump with 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**

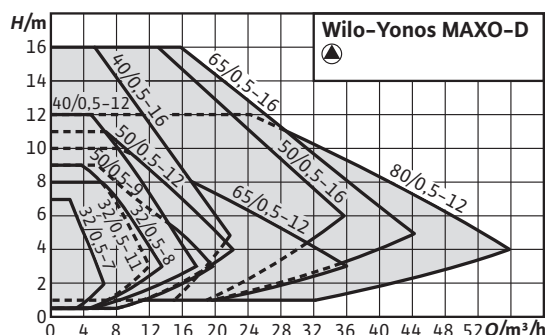
Yonos MAXO	High-efficiency pump (screw-end or flange-end pump), electronically controlled
-D	Double pump
32/	Nominal connection diameter
0.5-7	Nominal delivery head range [m]

Special features/product advantages

- LED display for indication of set delivery head and fault codes
- Quick and convenient electrical connection with Wilo plug
- Simplest commissioning and operation
- Collective fault signal for assuring system availability
- Pump housing with cataphoretic coating protects against corrosion due to condensation formation

Technical data

- Energy efficiency index (EEI) ≤ 0.27
- Permissible temperature range of -20°C to $+110^{\circ}\text{C}$
- Mains connection 1~230 V, 50/60 Hz
- Protection class IP X4D
- Flange connection DN 32 to DN 80
- Max. operating pressure of standard version: 6/10 bar or 6 bar (special version: 10 bar)



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
 - Standard version for DN 80/DN 100 pumps: PN 6 flange (designed for PN 16 according to EN 1092-2) for PN 6 counter flange

Scope of delivery

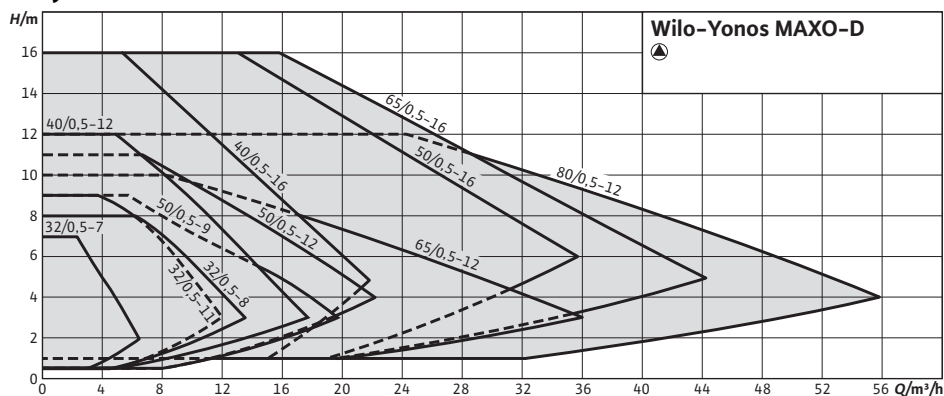
- Pump
- Incl. washers for flange screws (for nominal connection diameters DN 32 - DN 65)
- Including installation and operating instructions

Accessories

- Counter flanges for flange connection
- Adapter fittings

Duty chart: Wilo-Yonos MAXO-D

Duty chart

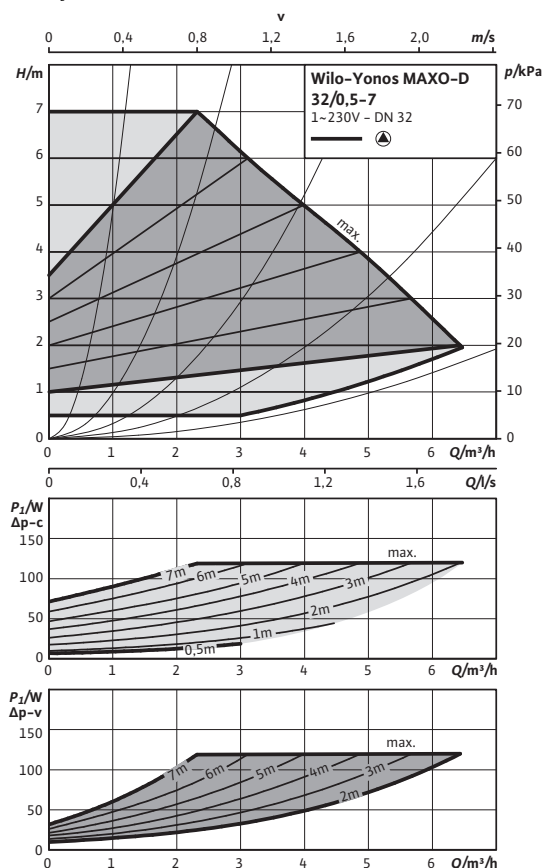


Product list: Wilo-Yonos MAXO-D

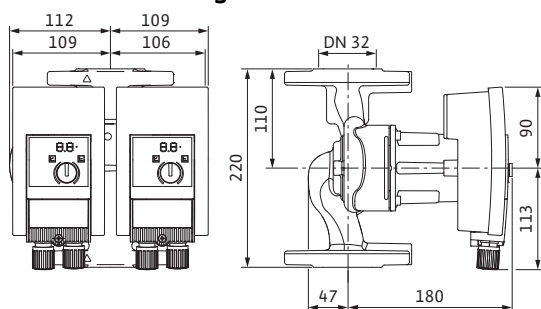
Type	Max. volume flow	Max. delivery head	Energy efficiency index (EEI)	Nominal flange diameter	Rated pressure	Overall length	Mains connection	Gross weight	Art no.
	$Q_{max}/m^3/h$	H_{max}/m			PN/bar	l_0/mm		m/kg	
Yonos MAXO-D 32/0,5-7	6	8	≤ 0.27	DN 32	6/10	220	1~230 V, 50/60 Hz	12.2	2120662
Yonos MAXO-D 32/0,5-11	12	10	≤ 0.27	DN 32	6/10	220	1~230 V, 50/60 Hz	18.9	2120663
Yonos MAXO-D 40/0,5-8	14	8	≤ 0.27	DN 40	6/10	220	1~230 V, 50/60 Hz	19.3	2120664
Yonos MAXO-D 40/0,5-12	18	12	≤ 0.27	DN 40	6/10	250	1~230 V, 50/60 Hz	26.6	2120665
Yonos MAXO-D 40/0,5-16	24	17	≤ 0.27	DN 40	6/10	250	1~230 V, 50/60 Hz	46.8	2120666
Yonos MAXO-D 50/0,5-9	20	9	≤ 0.27	DN 50	6/10	280	1~230 V, 50/60 Hz	28.9	2120667
Yonos MAXO-D 50/0,5-12	22	12	≤ 0.27	DN 50	6/10	280	1~230 V, 50/60 Hz	28.5	2120668
Yonos MAXO-D 50/0,5-16	34	16	≤ 0.27	DN 50	6/10	340	1~230 V, 50/60 Hz	51.2	2120669
Yonos MAXO-D 65/0,5-12			≤ 0.27	DN 65	6/10	340	1~230 V, 50/60 Hz	54.7	2120670
Yonos MAXO-D 65/0,5-16	48	17	≤ 0.27	DN 65	6/10	340	1~230 V, 50/60 Hz	54.2	2120671
Yonos MAXO-D 80/0,5-12	52	13	≤ 0.27	DN 80	6	360	1~230 V, 50/60 Hz	60.6	2120672
Yonos MAXO-D 80/0,5-12	52	13	≤ 0.27	DN 80	10	360	1~230 V, 50/60 Hz	60.6	2120673

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)	≤ 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

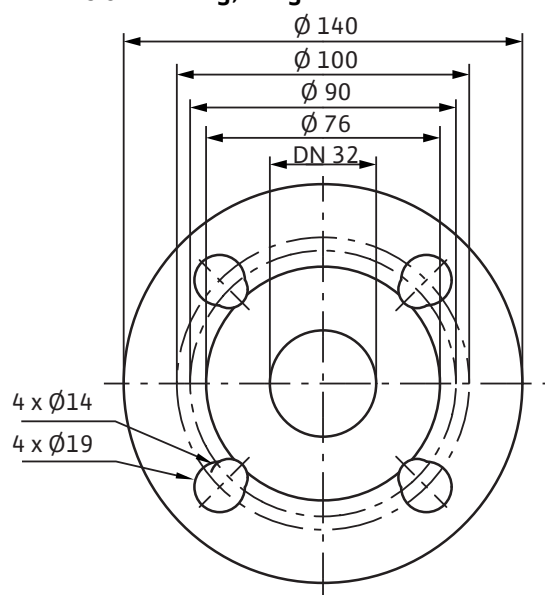
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPE - 30% GF)
Pump shaft	Stainless steel (X30CR13)
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

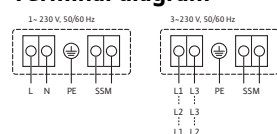


Minimum suction head at 50 / 95 / 110 °C 3 / 10 / 16 m

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



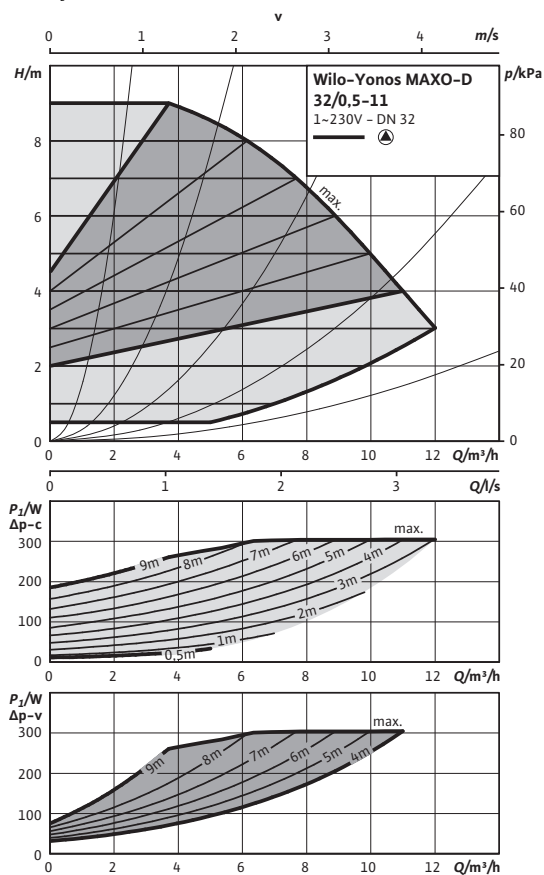
Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A, 250 V ~)

SSM:
For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"

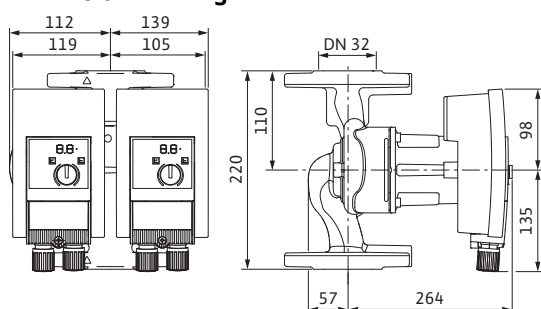


Data sheet: Wilo-Yonos MAXO-D 32/0,5-11

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)	≤ 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

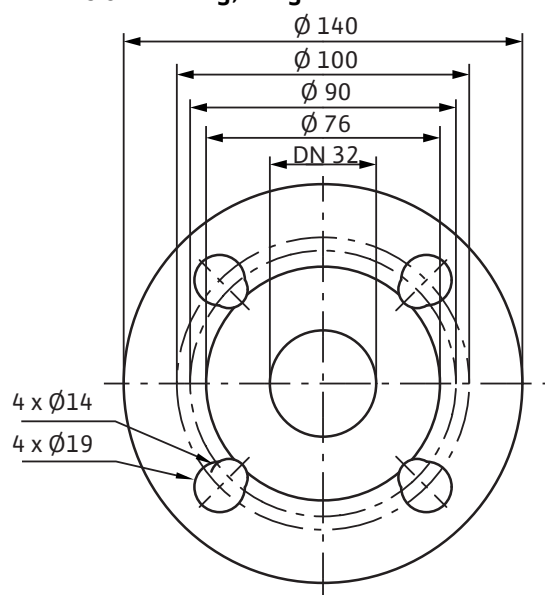
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X30CR13)
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

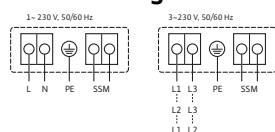


Minimum suction head at 50 / 95 / 110 °C 3 / 10 / 16 m

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 ~)

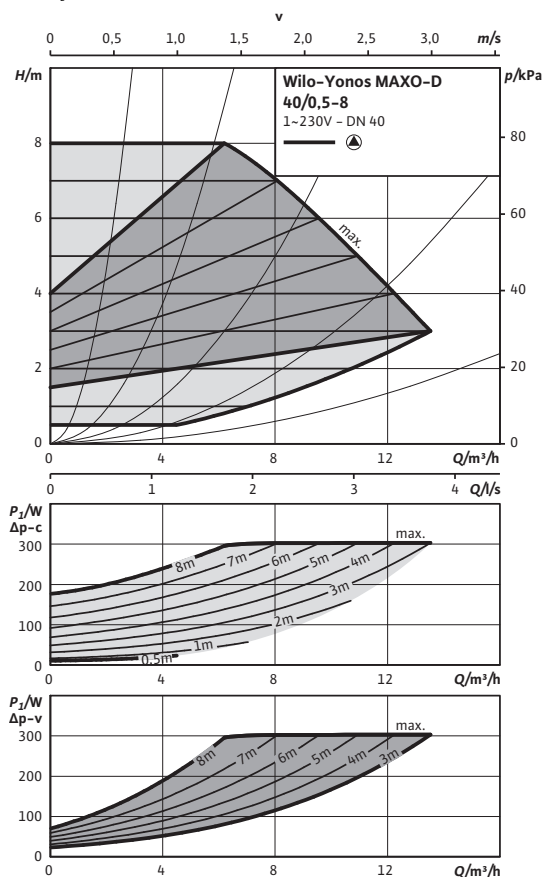
SSM:

For function, see Wilo catalogue, chapter "Pump
management Wilo-Control, consulting guide"

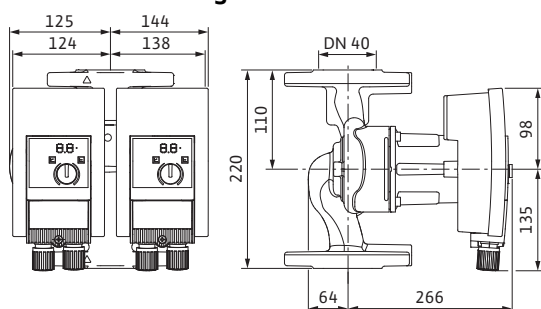


Data sheet: Wilo-Yonos MAXO-D 40/0,5-8

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)

≤ 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 (X30CR13)

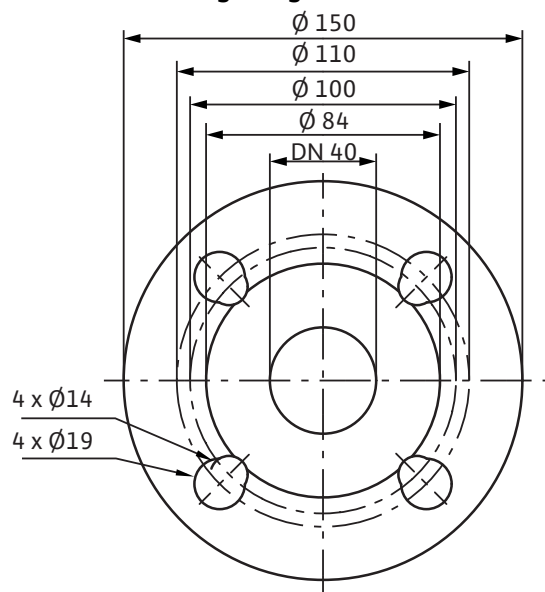
Bearing

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

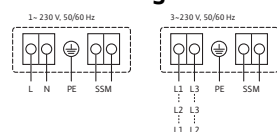


Minimum suction head at 50 / 95 / 110 °C 3 / 10 / 16 m

Information for order placements

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

Terminal diagram

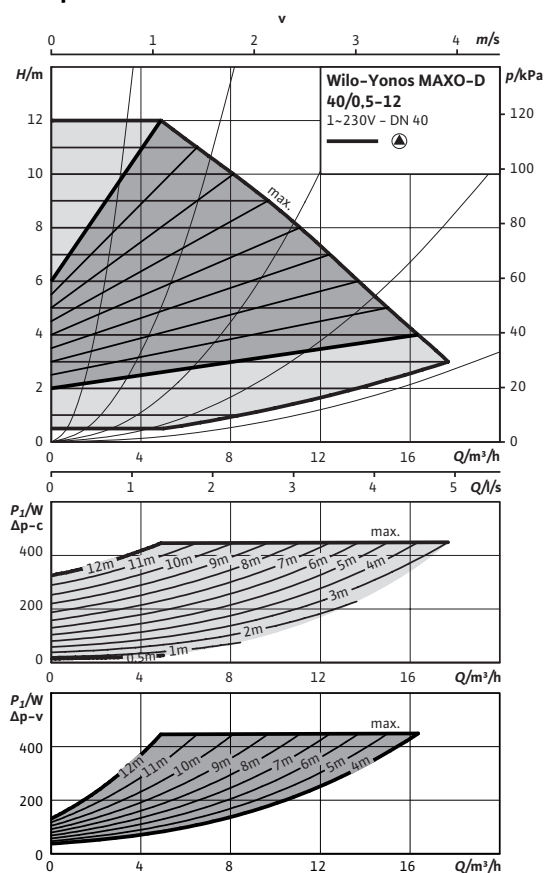


Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A,
250 V ~)
For function, see Wilo catalogue, chapter "Pump
management Wilo-Control, consulting guide"

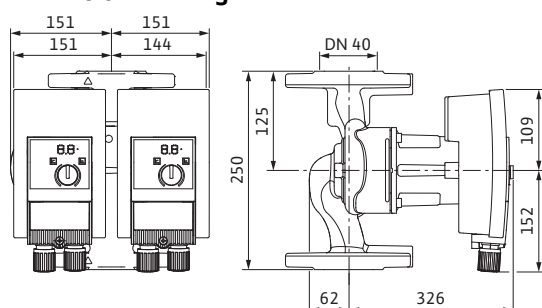


Data sheet: Wilo-Yonos MAXO-D 40/0,5-12

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)

≤ 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
(X30Cr13/X46Cr13)

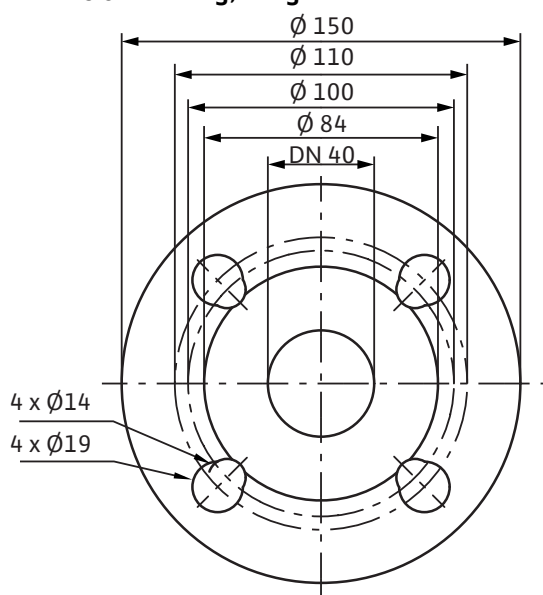
Bearing

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

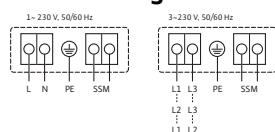


Minimum suction head at 50 / 95 / 110 °C 5 / 12 / 18 m

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

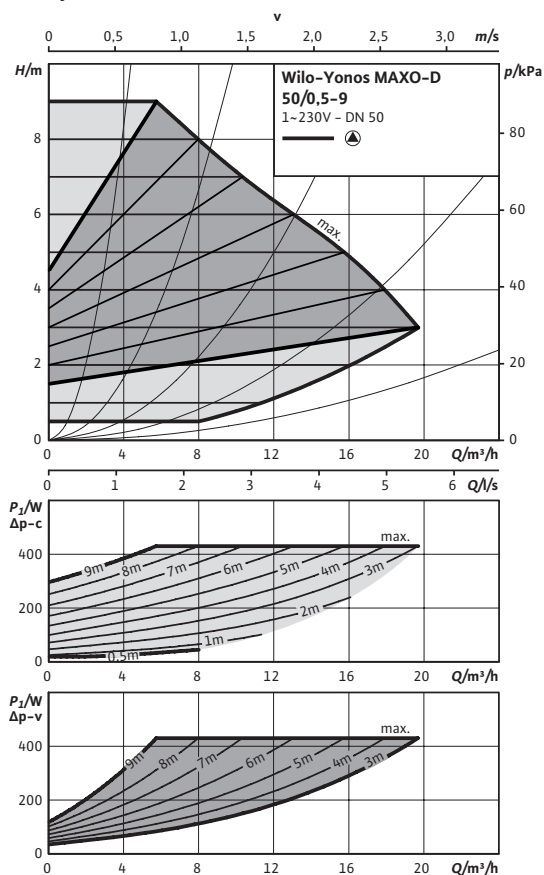


Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A,
250 V ~)
For function, see Wilo catalogue, chapter "Pump
management Wilo-Control, consulting guide"

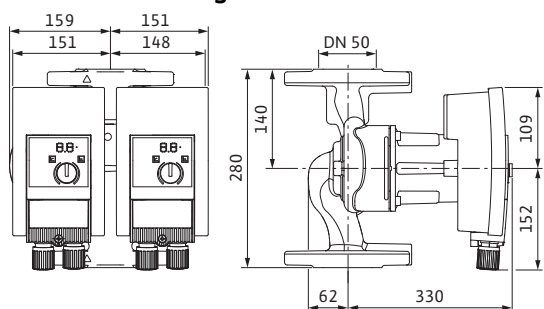


Data sheet: Wilo-Yonos MAXO-D 50/0,5-9

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)	≤ 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

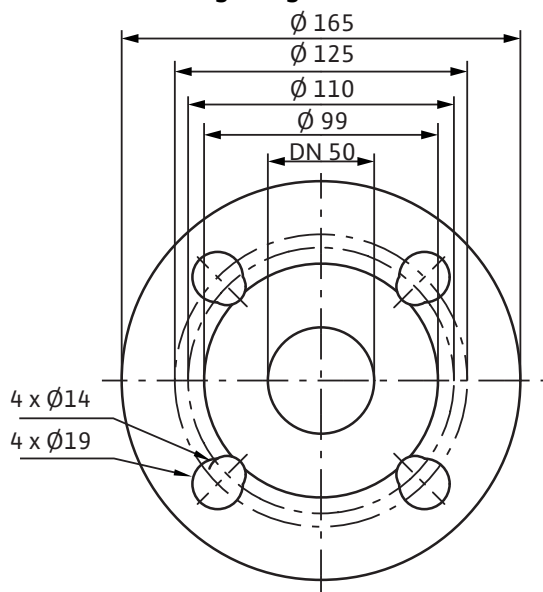
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PPS - 40% GF)
Pump shaft	Stainless steel (X30Cr13/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

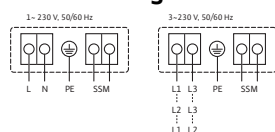


Minimum suction head at 50 / 95 / 110 °C 5 / 12 / 18 m

Information for order placements

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

Terminal diagram



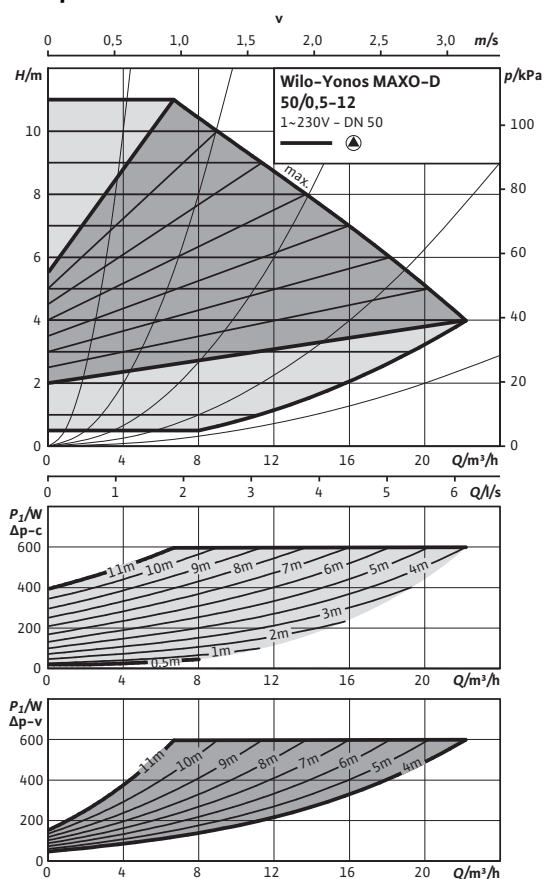
Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A,
250 V ~)

For function, see Wilo catalogue, chapter "Pump
management Wilo-Control, consulting guide"

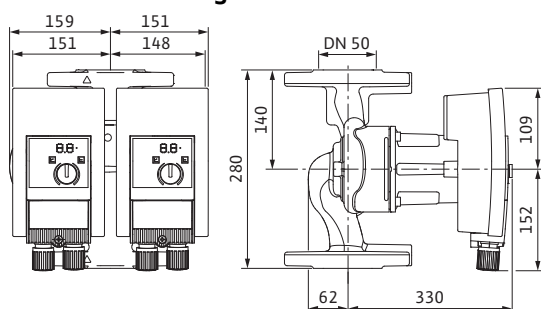


Data sheet: Wilo-Yonos MAXO-D 50/0,5-12

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)

≤ 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
(X30Cr13/X46Cr13)

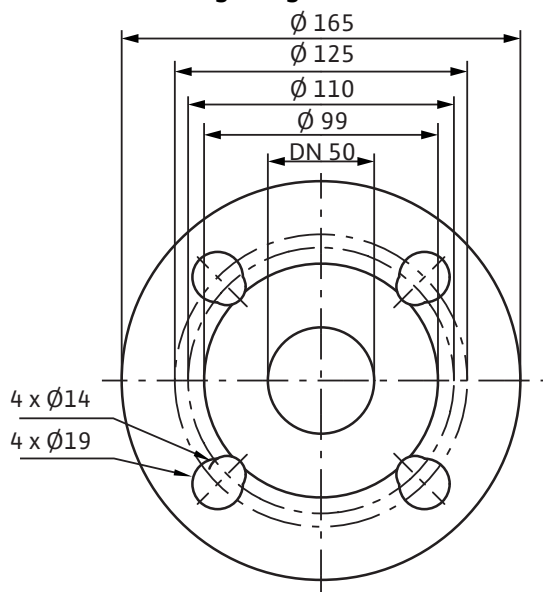
Bearing

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

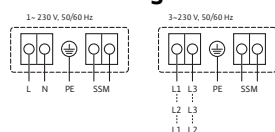


Minimum suction head at 50 / 95 / 110 °C 5 / 12 / 18 m

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

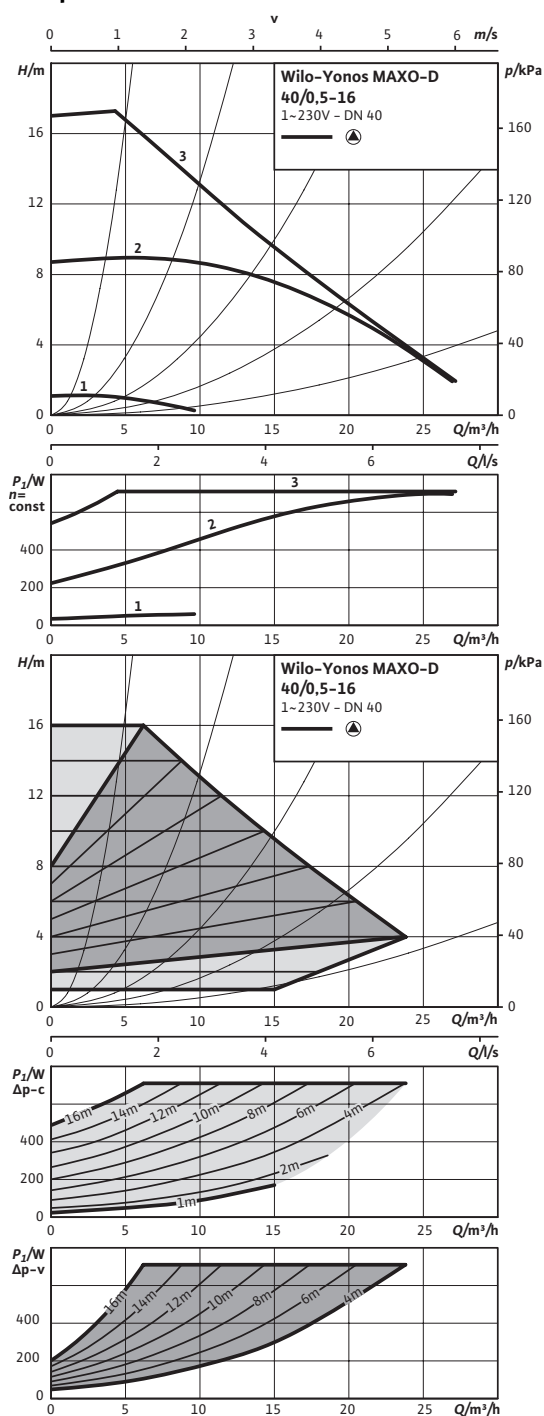


Collective fault signal
(NC contact according to VDI 3814, load capacity 1 A, 250 V ~)
For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"



Data sheet: Wilo-Yonos MAXO-D 40/0,5-16

Pump curves



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)

≤ 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

600.00 W

Speed

n

800 - 3500 rpm

Power consumption

P_1

25 - 710 W

Current consumption

I

0.25 - 3.15 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
(X30Cr13/X46Cr13)

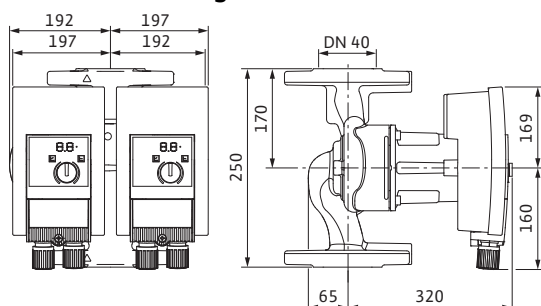
Bearing

Carbon, metal impregnated

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

Data sheet: Wilo-Yonos MAXO-D 40/0,5-16

Dimension drawing



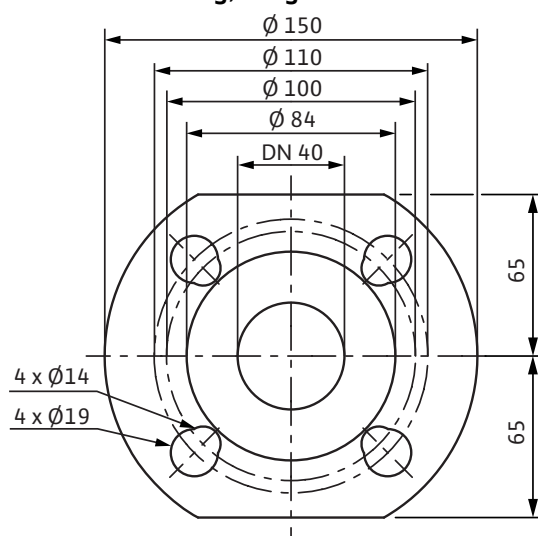
Minimum suction head at 50 / 95 / 110 °C

7 / 15 / 23 m

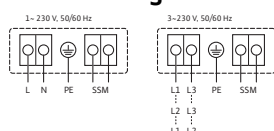
Information for order placements

Make	Wilo
Type	Yonos MAXO-D 40/0,5-16
Art no.	2120666
Weight approx.	<i>m</i> 43 kg

Dimension drawing, flange



Terminal diagram



Collective fault signal

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

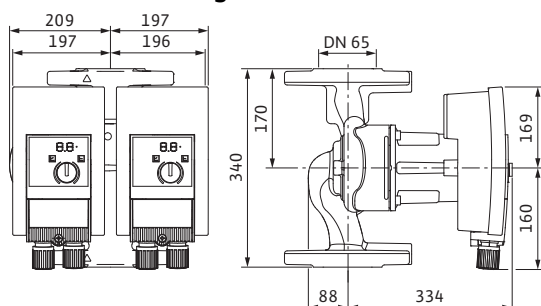
SSM:

For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"

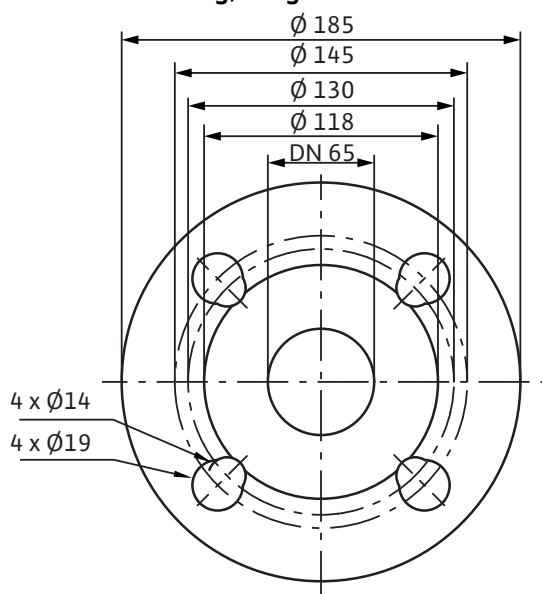


Data sheet: Wilo-Yonos MAXO-D 65/0,5-12

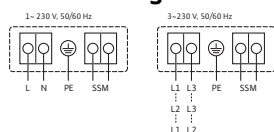
Dimension drawing



Dimension drawing, flange



Terminal diagram



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

For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"



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 65

Overall length

l_o

340 mm

Motor/electronics

Energy efficiency index (EEI)

≤ 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

Speed

n

0 rpm

Power consumption

P_i

0.0 – 0.0 W

Current consumption

I

0.00 – 0.00 A

Motor protection

integrated

Threaded cable connection

PG

M20x1.5

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP – 50% GF)

Pump shaft

Stainless steel
(X30Cr13/X46Cr13)

Bearing

Carbon, metal impregnated

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

Data sheet: Wilo-Yonos MAXO-D 65/0,5-12

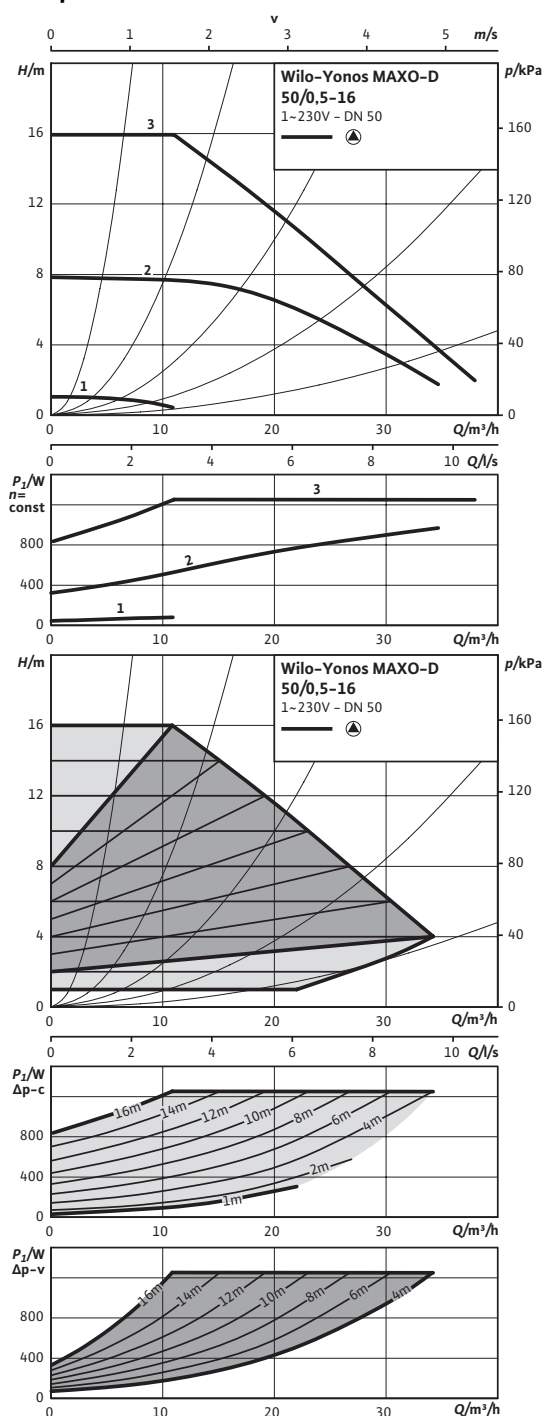
Minimum suction head at 50 / 95 / 110 °C	7 / 15 / 23 m
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Information for order placements

Make	Wilo	
Type	Yonos MAXO-D 65/0,5-12	
Art no.	2120670	
Weight approx.	<i>m</i>	51 kg

Data sheet: Wilo-Yonos MAXO-D 50/0,5-16

Pump curves



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

340 mm

Motor/electronics

Energy efficiency index (EEI)

≤ 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

1050.00 W

Speed

n

800 - 3300 rpm

Power consumption

P_1

40 - 1250 W

Current consumption

I

0.30 - 5.50 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
(X30Cr13/X46Cr13)

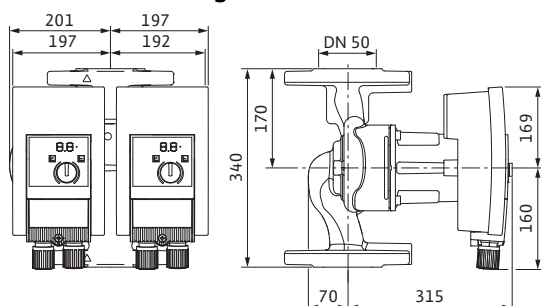
Bearing

Carbon, metal impregnated

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

Data sheet: Wilo-Yonos MAXO-D 50/0,5-16

Dimension drawing

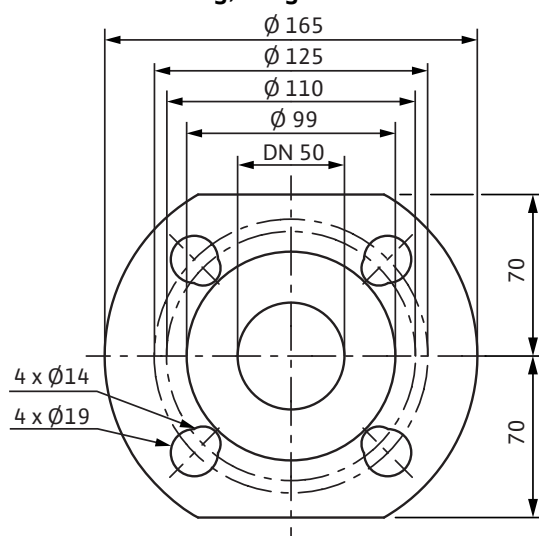


Minimum suction head at 50 / 95 / 110 °C 7 / 15 / 23 m

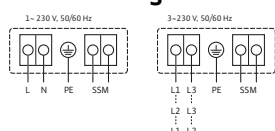
Information for order placements

Make	Wilo
Type	Yonos MAXO-D 50/0,5-16
Art no.	2120669
Weight approx.	m 47 kg

Dimension drawing, flange



Terminal diagram



Collective fault signal

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

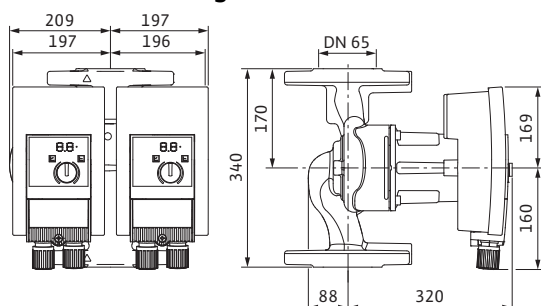
SSM:

For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"

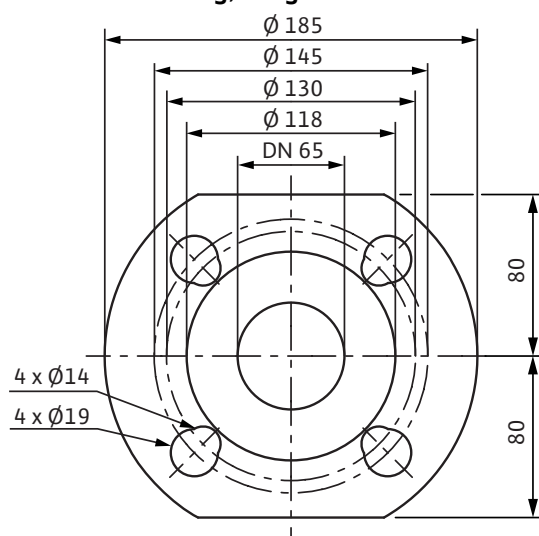


Data sheet: Wilo-Yonos MAXO-D 65/0,5-16

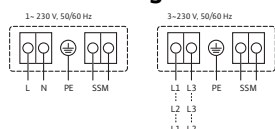
Dimension drawing



Dimension drawing, flange



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, consulting guide"



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 65

Overall length: l_o 340 mm

Motor/electronics

Energy efficiency index (EEI): ≤ 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 1200.00 W

Speed: n 800 - 3400 rpm

Power consumption: P_1 40 - 1450 W

Current consumption: I 0.30 - 6.40 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 (X30Cr13/X46Cr13)

Bearing: Carbon, metal impregnated

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

Data sheet: Wilo-Yonos MAXO-D 65/0,5-16

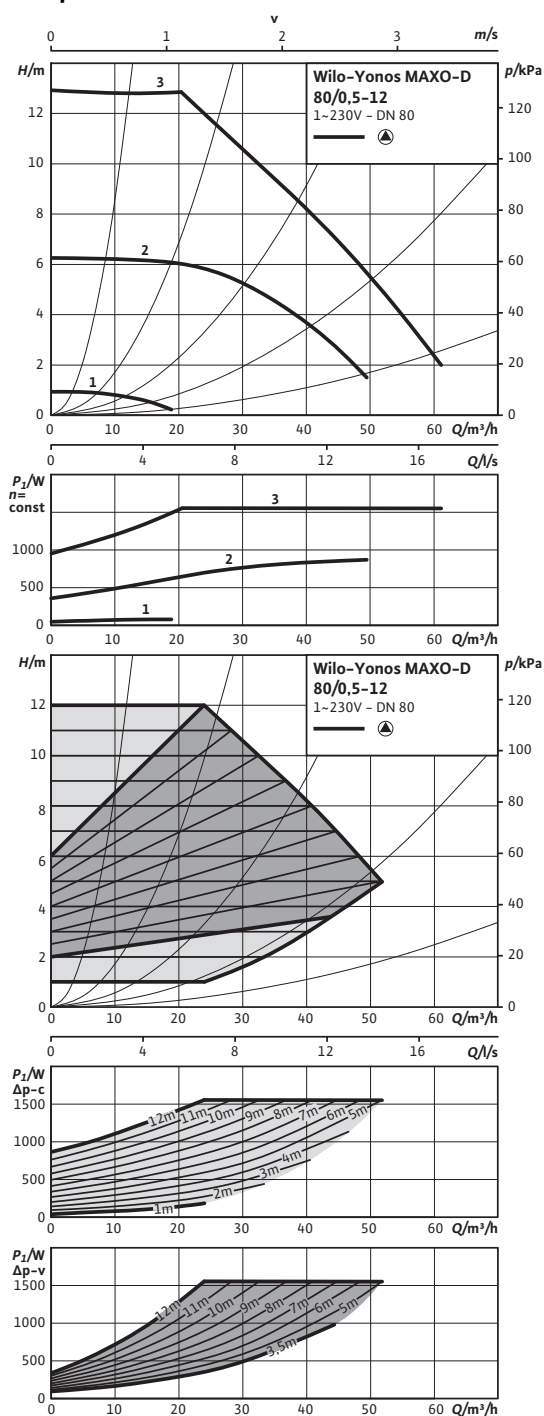
Minimum suction head at 50 / 95 / 110 °C	7 / 15 / 23 m
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Information for order placements

Make	Wilo	
Type	Yonos MAXO-D 65/0,5-16	
Art no.	2120671	
Weight approx.	<i>m</i>	50 kg

Data sheet: Wilo-Yonos MAXO-D 80/0,5-12

Pump curves



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 bar

Pipe connections

Flange	Flange PN 6 (PN 16 design, according to EN 1092-2)
Nominal flange diameter	DN 80
Overall length	l_o 360 mm

Motor/electronics

Energy efficiency index (EEI)	≤ 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 1300.00 W
Speed	n 900 - 3300 rpm
Power consumption	P_1 40 - 1550 W
Current consumption	I 0.30 - 6.80 A
Motor protection	integrated
Threaded cable connection	PG M20x1.5

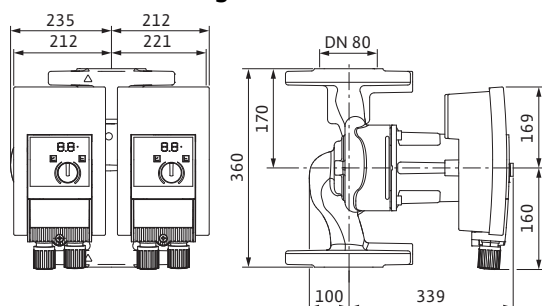
Materials

Pump housing	Grey cast iron (EN-GJL-250)
Impeller	Plastic (PP - 50% GF)
Pump shaft	Stainless steel (X30Cr13/X46Cr13)
Bearing	Carbon, metal impregnated

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

Data sheet: Wilo-Yonos MAXO-D 80/0,5-12

Dimension drawing



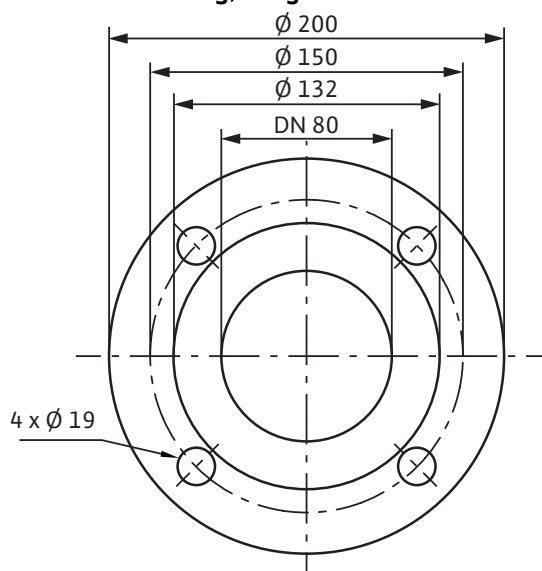
Minimum suction head at 50 / 95 / 110 °C

7 / 15 / 23 m

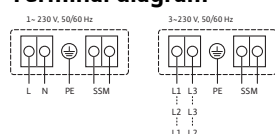
Information for order placements

Make	Wilo
Type	Yonos MAXO-D 80/0,5-12
Art no.	2120672
Weight approx.	m 57 kg

Dimension drawing, flange



Terminal diagram



Collective fault signal

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

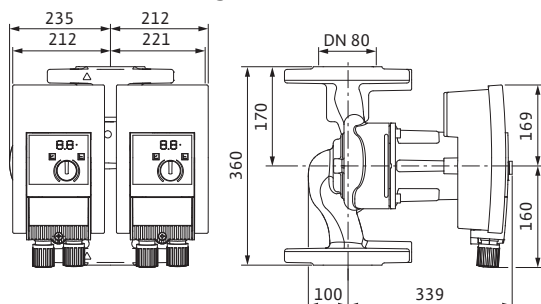
SSM:

For function, see Wilo catalogue, chapter "Pump management Wilo-Control, consulting guide"

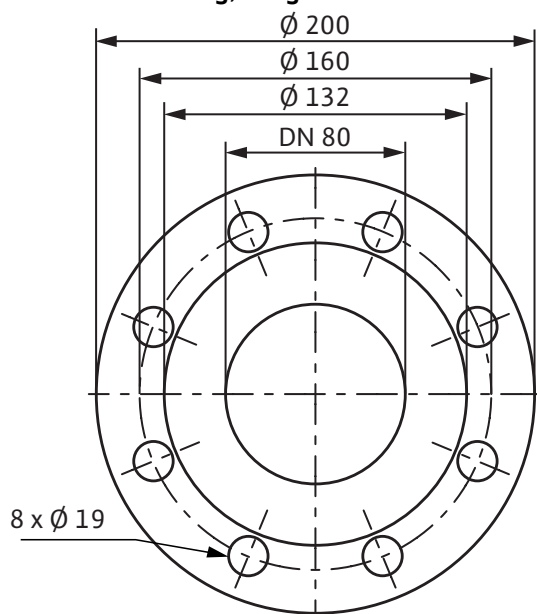


Data sheet: Wilo-Yonos MAXO-D 80/0,5-12

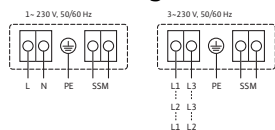
Dimension drawing



Dimension drawing, flange



Terminal diagram



SSM:

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



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}

10 bar

Pipe connections

Flange

Flange PN16 (according to EN 1092-2)

Nominal flange diameter

DN 80

Overall length

l_o

360 mm

Motor/electronics

Energy efficiency index (EEI)

≤ 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

1300.00 W

Speed

n

900 - 3300 rpm

Power consumption

P_1

40 - 1550 W

Current consumption

I

0.30 - 6.80 A

Motor protection

integrated

Threaded cable connection

PG

M20x1.5

Materials

Pump housing

Grey cast iron (EN-GJL-250)

Impeller

Plastic (PP - 50% GF)

Pump shaft

Stainless steel
(X30Cr13/X46Cr13)

Bearing

Carbon, metal impregnated

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

Data sheet: Wilo-Yonos MAXO-D 80/0,5-12

Minimum suction head at 50 / 95 / 110 °C	7 / 15 / 23 m
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Information for order placements

Make	Wilo	
Type	Yonos MAXO-D 80/0,5-12	
Art no.	2120673	
Weight approx.	<i>m</i>	57 kg