

Series description: Wilo-TOP-S



Design

Glandless circulation pump with screwed connection or flange connection.

Application

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

Type key

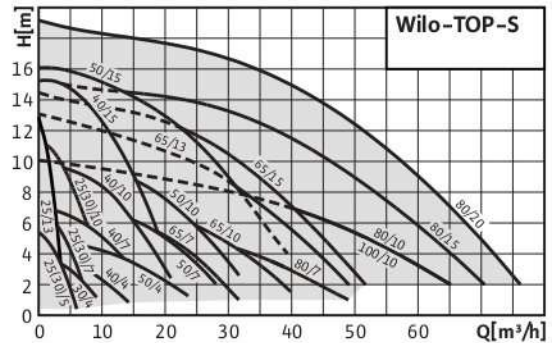
| | |
|----------|---|
| Example: | TOP-S 40/10 |
| TOP-S | Standard pump (screw-end pump or flange-end pump) |
| 40/ | Nominal connection diameter |
| 10 | Nominal delivery head [m] at $Q = 0 \text{ m}^3/\text{h}$ |

Special features/product advantages

- Can be used in heating systems and in cooling/air-conditioning systems from -20°C to $+130^\circ\text{C}$ (TOP-S 25/13, TOP-S 80/15 and TOP-S 80/20 from -20°C to $+110^\circ\text{C}$)
- Pump housing with cataphoretic coating for the prevention of corrosion by condensation formation
- Manual power adjustment with 3 speed stages
- Simple installation due to combination flange PN 6/PN 10 (for DN 40 to DN 65)

Technical data

- Permitted temperature range -20°C to $+130^\circ\text{C}$, for short periods (2 h) up to $+140^\circ\text{C}$ (TOP-S 25/13, 80/15, 80/20 and pumps with Wilo-Protect-Module: -20°C to $+110^\circ\text{C}$)
- Mains connection:
 - 1~230 V, 50 Hz (depending on type)
 - 3~230 V, 50 Hz (with optional switching plug)
 - 3~400 V, 50 Hz
- Protection class IP X4D
- Screwed connection or flange connection (depending on type) Rp 1 to DN 100
- Max. operating pressure, standard version: 6/10 bar or 6 bar (special version: 10 bar or 16 bar)



Equipment/function

Operating modes

- Speed-stage switching

Manual functions

- Setting of the speed stages: 3 speed stages (2 speed stages for 1~pumps with $P_2 \geq 350 \text{ W}$)

Automatic functions

- Full motor protection with integrated trip electronics (standard equipment only for 3~pumps with $P_2 \geq 180 \text{ W}$ and 1~pumps with $P_2 \geq 350 \text{ W}$, optional for all types with Wilo-Protect-Module C)

External control functions

- "Overriding Off" control input (optional for all types with Wilo-Protect-Module C)

Signal and display functions

- Individual/collective fault signal (potential-free NC contact) (optional for all types with Wilo-Protect-Module C)
- Collective fault signal (potential-free NC contact) (standard equipment only with 3~ pumps with $P_2 \geq 180 \text{ W}$ and 1~ pumps with $P_2 \geq 350 \text{ W}$, optional in all types with Wilo-Protect-Module C)
- Individual run signal (potential-free NO contact) (optional for all types with Wilo-Protect-Module C)
- Thermal winding contact (WSK, potential-free NC contact) (only for 1~pumps with $P_2 = 180 \text{ W}$)
- Fault signal light (standard equipment only for 3~pumps with $P_2 \geq 180 \text{ W}$ and 1~pumps with $P_2 \geq 350 \text{ W}$, optional for all types with Wilo-Protect-Module C)
- Direction of rotation control light (only for 3~pumps)

Dual pump management (double pump or 2 x single pump)

- Main/standby mode (automatic fault-actuated switchover/time-dependent pump cycling): optional for all types with Wilo-Protect-Module C

Equipment

- In flange pumps: Flange versions
 - Standard version for pumps DN 40 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 pumps DN 80 / DN 100: Flange PN 6 (configured for PN 16 acc. to EN 1092-2) for counter flange PN 6,
 - Special version for pumps DN 40 to DN 100: Flange PN 16 (acc. to EN 1092-2) for counter flange PN 16,
- Cable lead-in possible from both sides (only for 1~pumps and 3~pumps with $P_2 \geq 180 \text{ W}$)
- Standard thermal insulation for heating applications

Materials

- Pump housing: Grey cast iron
- Impeller: Plastic
- Shaft: stainless steel
- Bearing: Carbon, metal impregnated

Scope of delivery

- Pump
- Thermal insulation
- Including seals for threaded connection
- Washers for flange screws (for nominal connection diameters DN 40 - DN 65)
- Installation and operating instructions

Options

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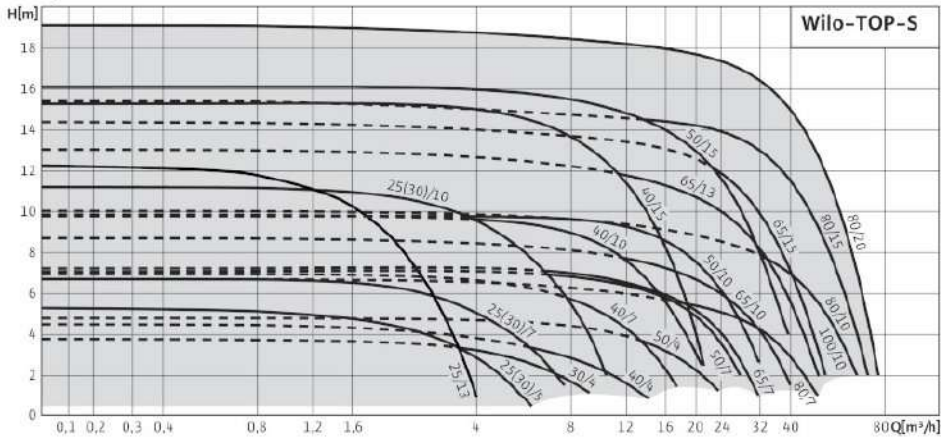
- Special version for operating pressure PN 16 (at additional charge)
- Version for special voltages on request.

Accessories

- Screwed connection for threaded connection
- Adapter fittings
- For pumps 3~400 V:
 - Switching plug 3~230 V, 50 Hz (not TOP-S 80/15, TOP-S 80/20)
 - Wilo-Protect-Module C, 3~400 V
- For pumps 1~230 V:
 - Wilo-SK 602N/SK 622N tripping unit for full motor protection
 - Wilo-Protect-Module C, 1~230 V

Duty chart: Wilo-TOP-S

Duty chart



Product list: Wilo-TOP-S

| Type | Max. volume flow | Max. delivery head | Pipe connection | Thread | 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 | |
| TOP-S 25/5 | 5 | 5 | Rp 1 | G 1½ | | 10 | 180 | 1~230 V, 50 Hz | 4,4 | 2044009 |
| TOP-S 25/5 | 5 | 5 | Rp 1 | G 1½ | | 10 | 180 | 3~400/230 V, 50 Hz | 4,6 | 2044010 |
| TOP-S 25/7 | 8 | 7 | Rp 1 | G 1½ | | 10 | 180 | 1~230 V, 50 Hz | 5,3 | 2048320 |
| TOP-S 25/7 | 8 | 7 | Rp 1 | G 1½ | | 10 | 180 | 3~400/230 V, 50 Hz | 5,3 | 2048321 |
| TOP-S 25/10 | 10 | 11 | Rp 1 | G 1½ | | 10 | 180 | 1~230 V, 50 Hz | 7,1 | 2061962 |
| TOP-S 25/10 | 10 | 11 | Rp 1 | G 1½ | | 10 | 180 | 3~400/230 V, 50 Hz | 7,0 | 2061963 |
| TOP-S 25/13 | 4 | 13 | Rp 1 | G 1½ | | 10 | 180 | 1~230 V, 50 Hz | 5,5 | 2084440 |
| TOP-S 25/13 | 4 | 13 | Rp 1 | G 1½ | | 10 | 180 | 3~400/230 V, 50 Hz | 5,5 | 2084441 |
| TOP-S 30/4 | 9 | 4 | Rp 1¼ | G 2 | | 10 | 180 | 1~230 V, 50 Hz | 5,1 | 2044011 |
| TOP-S 30/4 | 9 | 4 | Rp 1¼ | G 2 | | 10 | 180 | 3~400/230 V, 50 Hz | 5,1 | 2044012 |
| TOP-S 30/5 | 5 | 5 | Rp 1¼ | G 2 | | 10 | 180 | 1~230 V, 50 Hz | 4,6 | 2044013 |
| TOP-S 30/5 | 5 | 5 | Rp 1¼ | G 2 | | 10 | 180 | 3~400/230 V, 50 Hz | 4,7 | 2044014 |
| TOP-S 30/7 | 8 | 7 | Rp 1¼ | G 2 | | 10 | 180 | 1~230 V, 50 Hz | 5,5 | 2048322 |
| TOP-S 30/7 | 8 | 7 | Rp 1¼ | G 2 | | 10 | 180 | 3~400/230 V, 50 Hz | 5,6 | 2048323 |
| TOP-S 30/10 | 10 | 11 | Rp 1¼ | G 2 | | 10 | 180 | 1~230 V, 50 Hz | 7,2 | 2066132 |
| TOP-S 30/10 | 10 | 11 | Rp 1¼ | G 2 | | 10 | 180 | 3~400/230 V, 50 Hz | 7,2 | 2066133 |
| TOP-S 40/4 | 14 | 4 | | | DN 40 | 6/10 | 220 | 1~230 V, 50 Hz | 10,4 | 2080040 |
| TOP-S 40/4 | 14 | 4 | | | DN 40 | 6/10 | 220 | 3~400/230 V, 50 Hz | 10,6 | 2080041 |
| TOP-S 40/7 | 16 | 7 | | | DN 40 | 6/10 | 250 | 1~230 V, 50 Hz | 12,4 | 2080042 |
| TOP-S 40/7 | 16 | 7 | | | DN 40 | 6/10 | 250 | 3~400/230 V, 50 Hz | 12,5 | 2080043 |
| TOP-S 40/10 | 21 | 10 | | | DN 40 | 6/10 | 250 | 1~230 V, 50 Hz | 15,5 | 2080044 |
| TOP-S 40/10 | 21 | 10 | | | DN 40 | 6/10 | 250 | 3~400/230 V, 50 Hz | 15,9 | 2080045 |
| TOP-S 40/15 | 21 | 15 | | | DN 40 | 6/10 | 250 | 1~230 V, 50 Hz | 22,6 | 2080046 |
| TOP-S 40/15 | 21 | 15 | | | DN 40 | 6/10 | 250 | 3~400/230 V, 50 Hz | 22,5 | 2080047 |
| TOP-S 50/4 | 23 | 5 | | | DN 50 | 6/10 | 240 | 1~230 V, 50 Hz | 13,9 | 2080048 |
| TOP-S 50/4 | 23 | 5 | | | DN 50 | 6/10 | 240 | 3~400/230 V, 50 Hz | 14,0 | 2080049 |
| TOP-S 50/7 | 28 | 7 | | | DN 50 | 6/10 | 280 | 1~230 V, 50 Hz | 17,0 | 2080050 |
| TOP-S 50/7 | 28 | 7 | | | DN 50 | 6/10 | 280 | 3~400/230 V, 50 Hz | 17,8 | 2080051 |
| TOP-S 50/10 | 32 | 10 | | | DN 50 | 6/10 | 280 | 1~230 V, 50 Hz | 19,0 | 2080052 |

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| Type | Max. volume flow | Max. delivery head | Pipe connection | Thread | 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 | |
| TOP-S 50/10 | 32 | 10 | | | DN 50 | 6/10 | 280 | 3~400/230 V, 50 Hz | 19,0 | 2080053 |
| TOP-S 50/15 | 39 | 16 | | | DN 50 | 6/10 | 340 | 3~400/230 V, 50 Hz | 26,8 | 2080055 |
| TOP-S 65/7 | 32 | 7 | | | DN 65 | 6/10 | 280 | 1~230 V, 50 Hz | 20,5 | 2080056 |
| TOP-S 65/7 | 32 | 7 | | | DN 65 | 6/10 | 280 | 3~400/230 V, 50 Hz | 19,5 | 2080057 |
| TOP-S 65/10 | 40 | 8 | | | DN 65 | 6/10 | 340 | 1~230 V, 50 Hz | 22,4 | 2080058 |
| TOP-S 65/10 | 40 | 8 | | | DN 65 | 6/10 | 340 | 3~400/230 V, 50 Hz | 23,3 | 2080059 |
| TOP-S 65/13 | 49 | 13 | | | DN 65 | 6/10 | 340 | 3~400/230 V, 50 Hz | 29,4 | 2080060 |
| TOP-S 65/15 | 52 | 15 | | | DN 65 | 6/10 | 340 | 3~400/230 V, 50 Hz | 31,0 | 2080061 |
| TOP-S 80/7 | 49 | 7 | | | DN 80 | 6 | 360 | 1~230 V, 50 Hz | 26,5 | 2080062 |
| TOP-S 80/7 | 49 | 7 | | | DN 80 | 6 | 360 | 3~400/230 V, 50 Hz | 25,0 | 2080063 |
| TOP-S 80/7 | 49 | 7 | | | DN 80 | 10 | 360 | 3~400/230 V, 50 Hz | 26,4 | 2080064 |
| TOP-S 80/10 | 65 | 10 | | | DN 80 | 6 | 360 | 3~400/230 V, 50 Hz | 33,9 | 2080065 |
| TOP-S 80/10 | 65 | 10 | | | DN 80 | 10 | 360 | 3~400/230 V, 50 Hz | 33,3 | 2080066 |
| TOP-S 80/15 | 70 | 15 | | | DN 80 | 6 | 360 | 3~400 V, 50 Hz | 45,7 | 2080067 |
| TOP-S 80/15 | 70 | 15 | | | DN 80 | 10 | 360 | 3~400 V, 50 Hz | 45,7 | 2080068 |
| TOP-S 80/20 | 76 | 19 | | | DN 80 | 6 | 360 | 3~400 V, 50 Hz | 48,9 | 2080069 |
| TOP-S 80/20 | 76 | 19 | | | DN 80 | 10 | 360 | 3~400 V, 50 Hz | 48,9 | 2080070 |
| TOP-S 100/10 | 65 | 10 | | | DN 100 | 6 | 360 | 3~400/230 V, 50 Hz | 36,9 | 2080071 |
| TOP-S 100/10 | 65 | 10 | | | DN 100 | 10 | 360 | 3~400/230 V, 50 Hz | 36,9 | 2080072 |