

Series description: Wilo-TOP-SD



Design

Glandless double circulation pump with flange connection (TOP-SD 30/5 with screwed connection).

Application

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

Type key

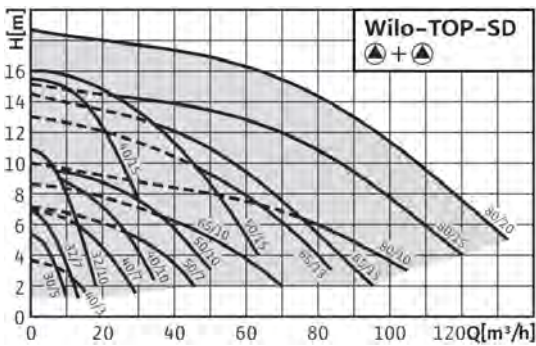
Example:	Wilo-TOP-SD 40/7
TOP-SD	Standard double pump (flange-end pump, TOP-SD 30/5 with threaded connection)
40/	Nominal connection diameter
7	Nominal delivery head [m] at $Q = 0 \text{ m}^3/\text{h}$

Special features/product benefits

- Can be used in heating systems and in cooling/air-conditioning systems from -20°C to $+130^\circ\text{C}$ (TOP-SD 80/15 and TOP-SD 80/20 from -20°C to $+110^\circ\text{C}$)
- Double pump for main/standby mode or parallel operation
- Manual power adjustment with 3 speed stages
- Pump housing with cataphoretic coating for the prevention of corrosion by condensation formation
- Simple installation due to combination flange PN 6/PN 10 (for DN 32 to DN 65)

Technical data

- Permitted temperature range -20°C to $+130^\circ\text{C}$, for short periods (2 h) to $+140^\circ\text{C}$ (TOP-SD 80/15, TOP-SD 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 1¼ to DN 80
- 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

Automatic functions

- Full motor protection with integrated trip electronics (standard equipment only for 3~pumps with $P_2 \geq 180$ 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 for 3~pumps with $P_2 \geq 180$ W, optional for 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 $P_2 = 180$ W)
- Fault signal light (standard equipment only for 3~pumps with $P_2 = 180$ W, optional for all types with Wilo-Protect-Module C)
- Direction of rotation control lamp (standard equipment 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 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 pumps DN 80: Flange PN 6 (configured for PN 16 acc. to EN 1092-2) for counter flange PN 6,
 - Special version for pumps DN 32 (not TOP-SD 32/7), DN 40 (not TOP-SD 40/3) to DN 80: Flange PN 16 (acc. to EN 1092-2) for counter flange PN 16,
- Support-bracket mounting (only with horizontal shaft):
 - Standard version for pumps TOP-SD 40/15, 50/15, all TOP-SD 65 and TOP-SD 80.

- Special version for pumps TOP-SD 32/10, 40/3, 40/7, 40/10, 50/7, 50/10. M10 hole for support-bracket mounting available on request.
- Twin switch-over valve in pump housing
- Cable lead-in possible from both sides (only for 1~pumps and 3~pumps with $P2 \geq 180$ W)

Materials

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

Scope of delivery

- Double pump
- Including seals for threaded connection (only for TOP-SD 30/5)
- Including washers for flange screws (for nominal connection diameters DN 32 – DN 65)
- Installation and operating instructions

Options

- Special versions for operating pressure PN 16 (at additional charge)
- Versions for special voltages on request

Accessories

- Screwed connections for screw thread (for TOP-SD 30/5)
- Mounting brackets for pump fixation
- For pumps 3~400 V:
 - Switching plug 3~230 V (2 plugs required),
 - Wilo Protect-Module C 3~400 V (2 modules required)
- For pumps 1~230 V:
 - Wilo tripping unit SK 602/SK 622
 - Wilo Protect-Module C 1~230 V (2 modules required)