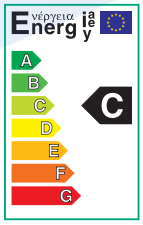
Series description Wilo-TOP-S



> **Note**
EEI classification for each pump type, see Chapter: "Planning guide"

Design
Glandless circulation pump with screwed connection or flange connection. Preselectable speed stages for power adjustment.

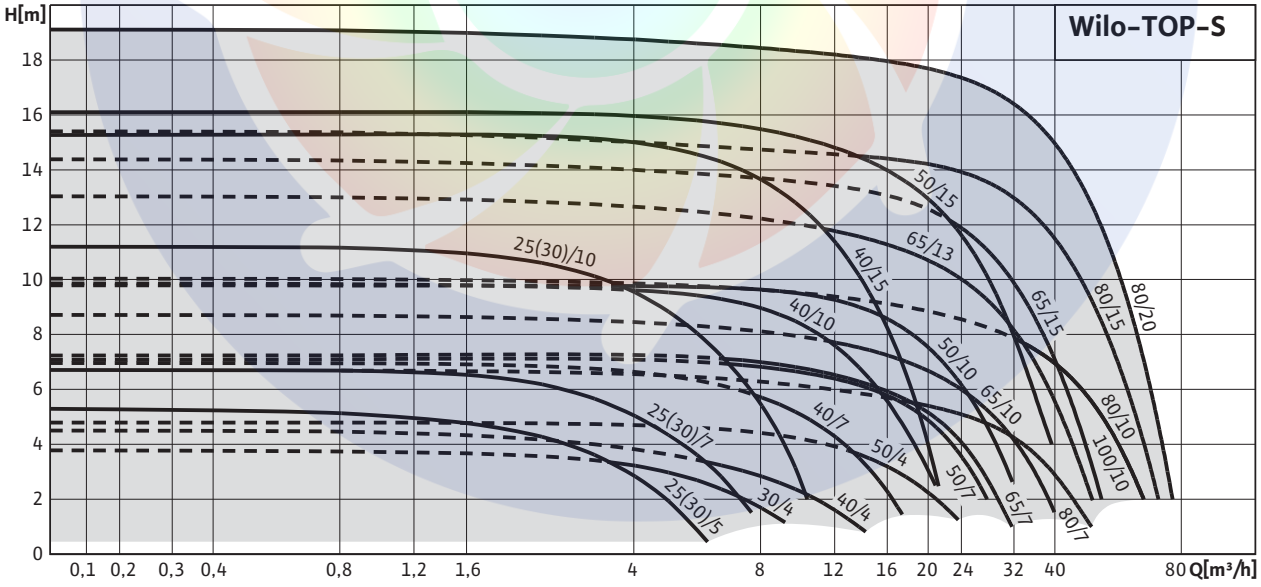
Application
Hot-water heating systems of all kinds, industrial circulation systems, air-conditioning systems and closed cooling circuits

Type key

Example:	**TOP-S 40/10**
TOP-S	Standard pump (screw-end or flange-end pump)
40/	Nominal connection diameter
10	Nominal delivery head range [m] at Q = 0 m^3/h

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

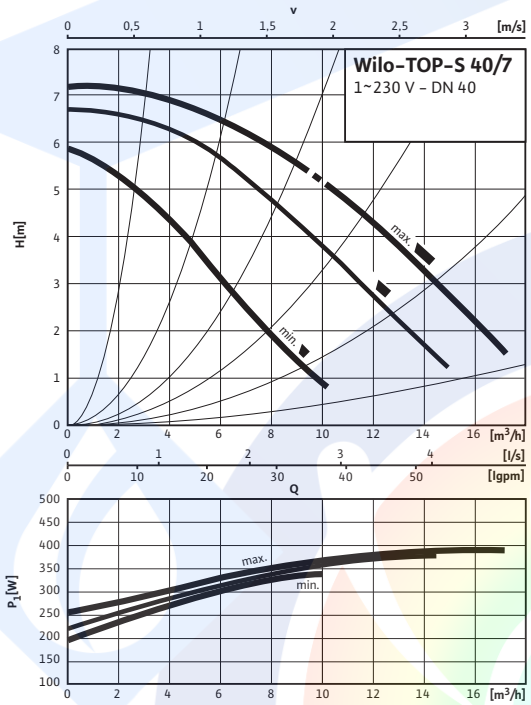
Special features/product benefits
- Can be used in heating systems and in cooling/air-conditioning systems from -20 °C to +130 °C
- Manual power adjustment with 2 speed stages (for pumps 1~230 V with P_2≥350 W) or with 3 speed stages
- Pump housing with cataphoretic (KTL) coating for the prevention of corrosion by condensation formation
- With thermal insulation as standard
- Simple installation due to combination flange PN 6/PN 10 (for DN 40 to DN 65)
- Cable feed in to terminal box possible on both sides (from P_2≥180 W) with integrated strain relief device
- Protection class IP 44



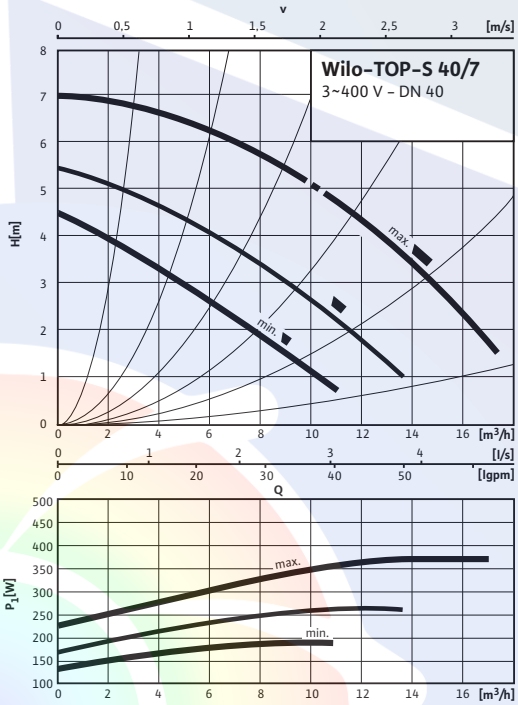
Pump curves Wilo-TOP-S

Wilo-TOP-S 40/7

Alternating current

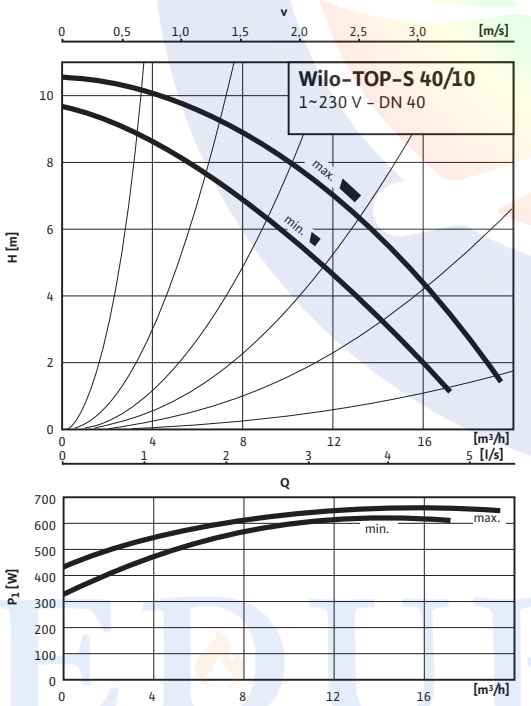


Three-phase current

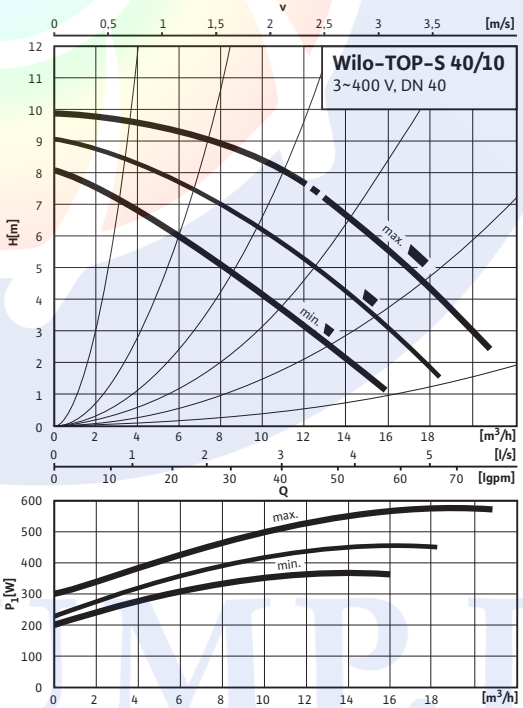


Wilo-TOP-S 40/10

Alternating current



Three-phase current



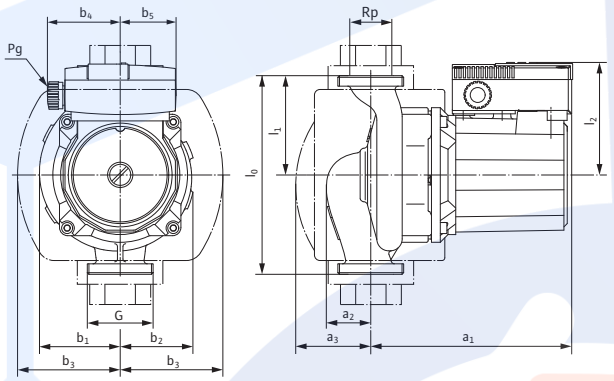
Terminal diagram, motor data Wilo-TOP-S

Motor data

Wilo-TOP-S ...	Nominal motor power	Speed	Power consumption 1~230 V	Power consumption 3~400 V	Current at 1~230V	Current at 3~400V	Current at 3~230V	Capacitor	Motor protection	Threaded cable connection	Wiring diagram
	P_2	n	P_1		I			C	–	PG	–
	[W]	[rpm]	[W]		[A]			[µF/ VDB]	–	[PG]	–
30/10 (1-phase-motor)	180	max. 2700 2550 min. 2400	225 – 390 190 – 385 165 – 335	–	1,9 1,87 1,72	–	–	8,0/400	C	2x13,5	C
30/10 (3-phase-motor)	180	max. 2650 2250 min. 1950	–	190 – 380 140 – 270 115 – 195	–	0,78 0,48 0,35	1,35 0,84 0,61	-	D	2x13,5	D
40/4 (1-phase-motor)	90	max. 2500 2100 min. 1600	155 – 195 130 – 175 100 – 120	–	0,95 0,87 0,62	–	–	5,0/400	A	1x13,5	A
40/4 (3-phase-motor)	90	max. 2550 2050 min. 1700	–	145 – 195 100 – 130 70 – 90	–	0,45 0,25 0,17	0,78 0,43 0,30	-	B	1x13,5	B
40/7 (1-phase-motor)	180	max. 2650 2450 min. 2200	250 – 390 220 – 380 200 – 330	–	1,93 1,88 1,7	–	–	8,0/400	C	2x13,5	C
40/7 (3-phase-motor)	180	max. 2600 2100 min. 1800	–	220 – 370 165 – 260 130 – 185	–	0,76 0,47 0,33	1,31 0,81 0,57	-	D	2x13,5	D
40/10 (1-phase-motor)	350	max. 2800 min. 2600	430 – 680 310 – 610	–	3.47 3.18	–	–	16.0/ 400	F	2x13.5	F
40/10 (3-phase-motor)	350	max. 2800 2500 min. 2200	–	300 – 585 230 – 465 200 – 365	–	1,17 0,82 0,65	2,02 1,43 1,12	-	D	2x13,5	D
40/15 (1-phase-motor)	570	max. 2800 min. 2500	615 – 945 415 – 800	–	4.57 4.2	–	–	25.0/ 400	F	2x13.5	F
40/15 (3-phase-motor)	570	max. 2800 2500 min. 2150	–	500 – 905 375 – 720 325 – 585	–	1,84 1,30 1,05	3,19 2,25 1,82	-	D	2x13,5	D
50/4 (1-phase-motor)	180	max. 2650 2450 min. 1950	280 – 330 255 – 320 235 – 290	–	1,62 1,61 1,51	–	–	8,0/400	C	2x13,5	C
50/4 (3-phase-motor)	180	max. 2600 2100 min. 1700	–	245 – 330 190 – 240 145 – 180	–	0,71 0,44 0,32	1,23 0,76 0,56	-	D	2x13,5	D
50/7 (1-phase-motor)	350	max. 2800 min. 2600	460 – 690 360 – 630	–	3.49 3.35	–	–	16.0/ 400	F	2x13.5	F
50/7 (3-phase-motor)	350	max. 2800 2450 min. 2150	–	360 – 610 285 – 470 245 – 375	–	1,19 0,83 0,66	2,06 1,43 1,14	-	D	2x13,5	D
50/10 (1-phase-motor)	450	max. 2800 min. 2450	515 – 820 360 – 730	–	3.94 3.72	–	–	25.0/ 400	F	2x13.5	F
50/10 (3-phase-motor)	450	max. 2700 2300 min. 2000	–	450 – 880 330 – 680 280 – 500	–	1,73 1,20 0,89	3,00 2,09 1,54	-	D	2x13,5	D

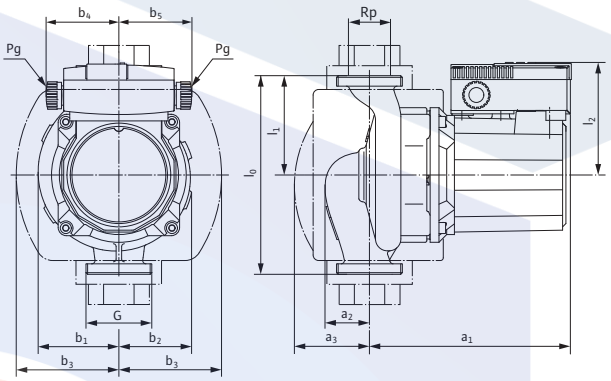
Dimensions, weights Wilo-TOP-S

Dimension drawing A



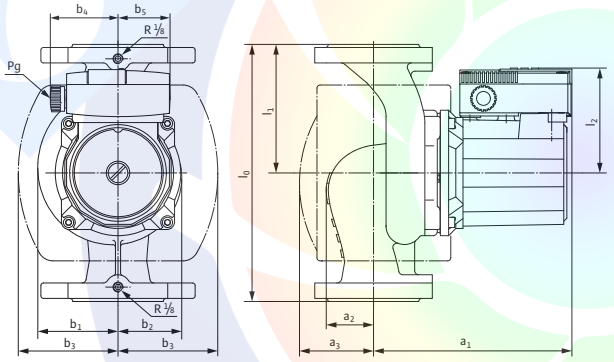
Permitted installation positions, see Planning guide

Dimension drawing B



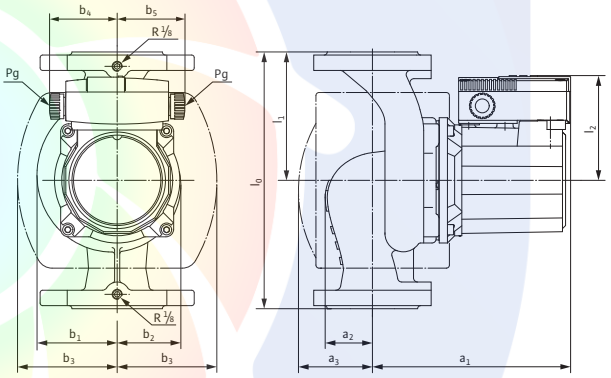
Permitted installation positions, see Planning guide

Dimension drawing C



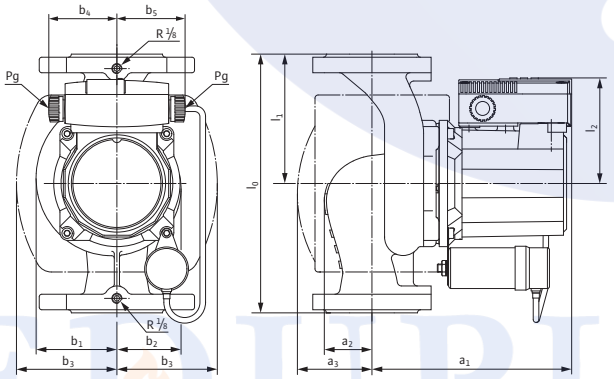
Permitted installation positions, see Planning guide

Dimension drawing D



Permitted installation positions, see Planning guide

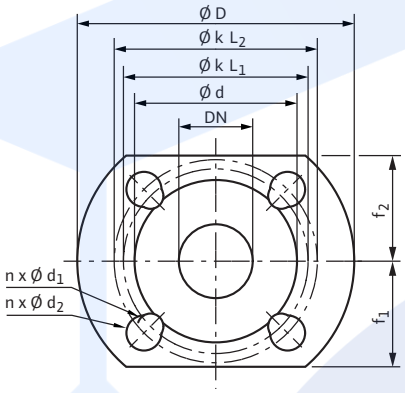
Dimension drawing E



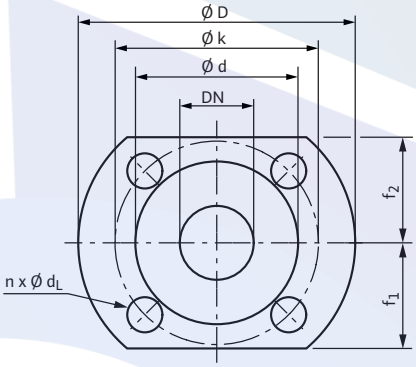
Permitted installation positions, see Planning guide

Dimensions, weights Wilo-TOP-S

Dimension drawing Flange F



Dimension drawing Flange G



Dimensions, weights

Wilo-TOP-S ...	Rated pressure	Pipe connection	Nominal flange diameter	Thread	Dimensions									Weight approx.	Dimension drawing
	PN	Rp	DN	G	l_0	l_2	a_1	a_2	b_1	b_2	b_3	b_4	b_5	M	–
	[bar]		–		[mm]									[kg]	–
25/5	10	1	–	1½	180	92	150	40	50	52	88	60	44	5.0	A
25/7	10	1	–	1½	180	92	165	34	66	56	80	60	44	5.0	A
25/10	10	1	–	1½	180	102	172	45	69	68	92	66	66	6.3	B
25/13	10	1	–	1½	180	92	156	30	68	64	89	60	44	5.2	A
30/4	10	1¼	–	2	180	92	156	50	53	65	88	60	44	5.0	A
30/5	10	1¼	–	2	180	92	150	40	50	52	88	60	44	5.0	A
30/7	10	1¼	–	2	180	92	172	34	66	57	88	60	44	5.0	A
30/10	10	1¼	–	2	180	102	172	45	69	69	92	66	66	6.3	B
40/4	6/10	-	40	–	220	90	178	54	84	60	102	53	44	9.5	C
40/7	6/10	-	40	–	250	102	193	46	78	68	102	66	66	11.0	D
40/10	6/10	-	40	–	250	109	216	59	90	80	117	66	66	14.7	D
40/15	6/10	-	40	–	250	119	258	55	99	86	137	66	66	20.8	D
50/4	6/10	-	50	–	240	102	200	53	94	68	117	66	66	13.1	D
50/7	6/10	-	50	–	280	109	224	65	91	77	125	66	66	16.6	D
50/10	6/10	-	50	–	280	109	222	71	101	87	125	66	66	17.8	D
50/15	6/10	-	50	–	340	119	242	81	105	90	139	66	66	24.9	D
65/7	6/10	-	65	–	280	109	226	67	95	79	125	66	66	18.5	D
65/10	6/10	-	65	–	340	109	241	67	110	89	132	66	66	21.0	D
65/13	6/10	-	65	–	340	119	254	81	118	98	142	66	66	27.2	D
65/15	6/10	-	65	–	340	119	254	81	118	98	142	66	66	30.4	D
80/7	6	-	80	–	360	109	227	80	116	89	140	66	66	23.4	E
80/7	10	-	80	–	360	109	227	80	116	89	140	66	66	23.2	D
80/10	6	-	80	–	360	119	256	95	135	107	162	66	66	30.1	D
80/10	10	-	80	–	360	119	256	95	135	107	162	66	66	30.1	D
80/15	6	-	80	–	360	143	316	89	129	108	152	66	66	42.1	D
80/15	10	-	80	–	360	143	316	89	129	108	152	66	66	42.1	D

Dimensions, weights Wilo-TOP-S

Dimensions, weights

Wilo-TOP-S ...	Rated pressure	Pipe connection	Nominal flange diameter	Thread	Dimensions									Weight approx.	Dimension drawing
	PN	Rp	DN	G	l_0	l_2	a_1	a_2	b_1	b_2	b_3	b_4	b_5	M	–
	[bar]	–			[mm]									[kg]	–
80/20	6	-	80	–	360	143	316	89	129	108	152	66	66	45.5	D
80/20	10	-	80	–	360	143	316	89	129	108	152	66	66	45.5	D
100/10	6	-	100	–	360	119	256	96	135	108	162	66	66	33.2	D
100/10	10	-	100	–	360	119	256	96	135	108	162	66	66	33.2	D

Flange dimensions

Wilo-TOP-S ...	Flange	Nominal flange diameter	Pump flange dimensions								Dimension drawing, flange
	–	DN	Ø D	f_1	f_2	Ø d	Ø k_{L1}/k_{L2}	Ø k	n x Ø d_{L1}/ Ø d_{L2}	n x Ø d_L	–
	–		[mm]						[pcs. x mm]		–
40/4	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	40	150	65	65	84	100/110	–	4 x 14 / 19	-	F
40/7	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	40	150	65	65	84	100/110	–	4 x 14 / 19	-	F
40/10	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	40	150	65	65	84	100/110	–	4 x 14 / 19	-	F
40/15	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	40	150	65	65	84	100/110	–	4 x 14 / 19	-	F
50/4	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	50	165	70	70	99	110/125	–	4 x 14 / 19	-	F
50/7	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	50	165	70	70	99	110/125	–	4 x 14 / 19	-	F
50/10	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	50	165	70	75	99	110/125	–	4 x 14 / 19	-	F
50/15	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	50	165	75	83	99	110/125	–	4 x 14 / 19	-	F
65/7	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	65	185	80	80	118	130/145	–	4 x 14 / 19	-	F
65/10	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	65	185	80	80	118	130/145	–	4 x 14 / 19	-	F
65/13	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	65	185	80	80	118	130/145	–	4 x 14 / 19	-	F
65/15	Combination flange PN6/10 (PN 16 flange according to EN 1092-2)	65	185	80	80	118	130/145	–	4 x 14 / 19	-	F

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آمـــــوزش

تهویه و تخلیه دود
سیستم‌های پمپاژ
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تهـــران، سعـدی شمـالـی، خیـابان مـرادی نور، پـلاک ۳۱
تلفن: ۰۲۱-۷۷۶۸۶۹۶۶ فکس: ۰۲۱-۷۷۶۷۸۶۵۹
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