

Submersible Sewage Pump Type ABS XFP 80C - 206G

Robust, reliable, submersible pumps, with Premium Efficiency motors from 1.8 to 30.0 kW. For the pumping of wastewater and sewage from buildings and sites in private, commercial, industrial and municipal areas.

Features

- The water-pressure-tight, encapsulated, flood-proof motor and the pump section form a compact, robust, modular construction.
- NEMA Class A temperature rise.
- Premium Efficiency motors in accordance with IEC 60034-30 level IE3 with testing in accordance with IEC60034-2-1.
- Continuously rated motor in submerged and non-submerged applications.
- Double mechanical seals. SiC-SiC at the medium side; SiC-C (80C - 150E) and SiC-SiC (100G - 206G) at the motor. XFP 100G - 206G has an additional inner lipseal at the motor side.
All seals are independent of rotation direction and resistant to temperature shock.
- Anti-wicking cable plug solution (80C - 150E), or water-pressure-sealed connection chamber (100G - 206G).
- Hydraulic options of Contrablock and Contrablock Plus impellers for high efficiency, or vortex impellers for maximum solids handling.
- Lubricated-for-life bearings with a calculated lifetime of minimum 50,000 hrs. (80C - 150E), and 100,000 hrs. (100G - 206G).
- Stainless steel shaft. Designed with high safety factor to prevent fatigue fracture.
- Temperature monitoring by thermal sensors (140 °C) in the stator windings.
- Seal monitoring by a moisture probe (DI) in the motor and seal chambers (80C - 150E), or motor chamber (100G - 206G), which signals an inspection alert if there is leakage at the shaft seals.
- Smooth outer design to reduce rag build-up.
- Stainless steel lifting hoop.
- DN 80, DN 100, DN 150 and DN 200 radial slot DIN flange discharge.
- Maximum allowable temperature of the medium for continuous operation is 40 °C.
- Maximum submergence depth of 20 m.
- Explosion-proof as standard, in accordance with international standard ATEX 2014/34/EU [II 2G Ex h db IIB T4 Gb].



Motor

Premium Efficiency IE3* motor.

60 Hz single-phase 230 V, and three-phase 460 V squirrel-cage motor as 2-pole (3400 r/min), 4-pole (1750), 6-pole (1180) and 8-pole (870).

Protection type IP 68, with stator insulation Class H.

Starting: direct on line (DOL) or star-delta (YΔ).

Service factor: 1.3

Motors with other operating voltages and frequencies are also available (DOL and YΔ).

Identification Code: e.g. XFP 80C CB1.3 PE22/4-C-60

Hydraulics:

XFPProduct range

8 Discharge outlet DN (cm)

0Hydraulic type

C Volute opening (dia. mm): C = 222, E = 265,
G = 335

CB..... Impeller type: CB = Contrablock, VX = vortex

1 Number of impeller vanes

3 Impeller size

Motor:

PE Premium Efficiency

22 Motor power P2 kW x 10

4 Number of poles

C Volute opening (dia. mm): C = 222, E = 265,
G = 335

60 Frequency

Technical data

XFP	Motor	IEC rating	Impeller size	Rated Voltage	Motor Power* (kW)		Rated current	Speed	Weight **
				(V)	P ₁	P ₂	(A)	(r/min)	(kg)
80C-CB1	PE 28/4	IE3	5	460 3~	3.1	2.8	5.2	1750	120 / n.a.
	PE 35/4	IE3	4	460 3~	3.9	3.5	6.2	1750	120 / n.a.
	PE 20/6	IE1	1, 2, 4	460 3~	2.4	2.0	4.2	1180	120 / n.a.
	PE 28/4W	IE3	5	230 1~	3.6	2.8	16.9	1750	110 / n.a.
	PE 20/6W	IE1	1, 2, 4	230 1~	2.4	2.0	12.0	1180	120 / n.a.
80C-VX	PE 22/4	IE3	2, 3, 4	460 3~	2.5	2.2	4.6	1750	110 / n.a.
	PE 35/4	IE3	1	460 3~	3.9	3.5	6.2	1750	110 / n.a.
	PE 18/4W	IE3	3, 4	230 1~	2.3	1.8	10.5	1750	110 / n.a.
	PE 28/4W	IE3	2	230 1~	3.6	2.8	16.9	1750	110 / n.a.
80E-CB1	PE 125/2	IE3	4, 5	460 3~	13.7	12.5	21.3	3400	180 / n.a.
81C-VX	PE 45/2	IE3	1	460 3~	5.0	4.5	7.4	3400	120 / n.a.
85E-VX	PE 125/2	IE3	A, 4	460 3~	13.7	12.5	21.3	3400	170 / n.a.
	PE 100/2	IE3	5	460 3~	10.9	10.0	17.1	3400	150 / n.a.
85C-VX	PE 35/4	IE3	1	460 3~	3.9	3.5	6.2	1750	120 / n.a.
	PE 28/4	IE3	2, 3	460 3~	3.1	2.8	5.2	1750	120 / n.a.
	PE 22/4	IE3	4, 5	460 3~	2.5	2.2	4.6	1750	120 / n.a.
86E-CB2	PE 80/2	IE3	1, 2, 3, 4, 5	460 3~	8.9	8.0	13.3	3400	165 / n.a.
86E-VX	PE 125/2	IE3	1	460 3~	13.7	12.5	21.3	3400	170 / n.a.
	PE 100/2	IE3	1, 2	460 3~	10.9	10.0	17.1	3400	150 / n.a.
	PE 80/2	IE3	3, 4, 5	460 3~	8.9	8.0	13.3	3400	130 / n.a.
105E-VX	PE 125/2	IE3	A, 4	460 3~	13.7	12.5	21.3	3400	170 / n.a.
	PE 100/2	IE3	5	460 3~	10.9	10.0	17.1	3400	150 / n.a.
100C-CB1	PE 28/4	IE3	5	460 3~	3.1	2.8	5.2	1750	120 / n.a.
	PE 35/4	IE3	4	460 3~	3.9	3.5	6.2	1750	120 / n.a.
	PE 20/6	IE1	1, 2, 4	460 3~	2.4	2.0	4.2	1180	130 / n.a.
	PE 28/4W	IE3	5	230 1~	3.6	2.8	16.9	1750	130 / n.a.
	PE 20/6W	IE1	1, 2, 4	230 1~	2.6	2.0	12.0	1180	130 / n.a.
100C-VX	PE 22/4	IE3	3, 4, 5	460 3~	2.5	2.2	4.6	1750	120 / n.a.
	PE 28/4	IE3	2	460 3~	3.1	2.8	5.2	1750	120 / n.a.
	PE 35/4	IE3	1	460 3~	3.9	3.5	6.2	1750	120 / n.a.
	PE 18/4W	IE3	4	230 1~	2.3	1.8	10.5	1750	110 / n.a.
	PE 28/4W	IE3	2, 3	230 1~	3.6	2.8	16.9	1750	120 / n.a.
100E-CB1	PE 45/4	IE3	6	460 3~	5.0	4.5	8.2	1750	160 / n.a.
	PE 56/4	IE3	5	460 3~	6.1	5.6	9.9	1750	160 / n.a.
	PE 75/4	IE3	4, 4A, 5	460 3~	8.2	7.5	13.8	1750	170 / n.a.
	PE 90/4	IE3	2, 3, 4	460 3~	9.8	9.0	15.8	1750	190 / n.a.
	PE 105/4	IE3	1, 2, 3	460 3~	11.4	10.5	17.7	1750	200 / n.a.
	PE 35/6	IE2	2, 3, 4, 5	460 3~	4.0	3.5	6.3	1180	170 / n.a.
100E-VX	PE 45/4	IE3	5	460 3~	5.0	4.5	8.2	1750	150 / n.a.
	PE 56/4	IE3	4	460 3~	6.1	5.6	9.9	1750	140 / n.a.
	PE 75/4	IE3	4	460 3~	8.2	7.5	13.8	1750	150 / n.a.
	PE 90/4	IE3	3	460 3~	9.8	9.0	15.8	1750	180 / n.a.
	PE 105/4	IE3	1	460 3~	11.4	10.5	17.7	1750	180 / n.a.
100G-CB1	PE 130/4	IE3	8, 9	460 3~	14.0	13.0	23.2	1750	340 / 390
	PE 150/4	IE3	7, 8, 9	460 3~	16.1	15.0	25.5	1750	340 / 390
	PE 185/4	IE3	6, 7	460 3~	19.8	18.5	32.3	1750	360 / 410
	PE 210/4	IE3	4, 5, 6	460 3~	22.4	21.0	35.4	1750	370 / 410
	PE 250/4	IE3	4, 5	460 3~	26.7	25.0	40.8	1750	380 / 430
	PE 90/6	IE3	2, 3, 4, 5	460 3~	10.0	9.0	18.8	1180	340 / 380
	PE 130/6	IE3	1	460 3~	14.2	13.0	23.7	1180	340 / 380
	PE 110/6	IE3	1, 2, 3	460 3~	12.0	11.0	21.1	1180	340 / 380
100G-CB2	PE 250/4	IE3	1, 2, 3	460 3~	26.7	25.0	40.8	1750	372 / 422
101G-CB1	PE 185/2	IE3	4	460 3~	20.0	18.5	28.4	3400	340 / 380
	PE 200/2	IE3	3, 4	460 3~	21.8	20.0	30.5	3400	330 / 380
	PE 230/2	IE3	2, 3	460 3~	25.1	23.0	35.1	3400	350 / 390
	PE 300/2	IE3	1, 2	460 3~	32.5	30.0	45.8	3400	360 / 410
101G-VX	PE 230/2	IE3	5, 6	460 3~	25.1	23.0	35.1	3400	360 / 400
	PE 300/2	IE3	3, 4, 5, 6	460 3~	32.5	30.0	45.8	3400	370 / 410

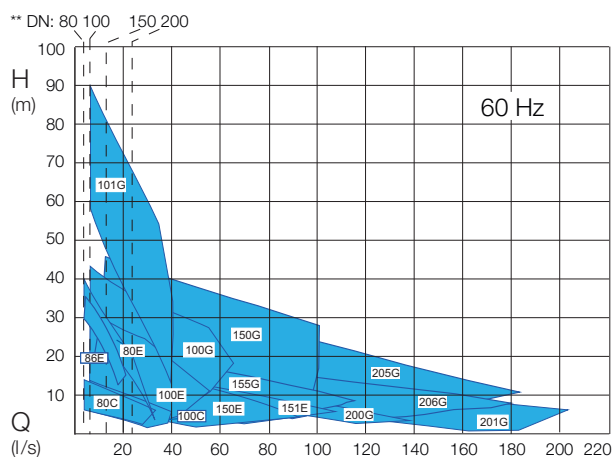
XFP	Motor	IEC rating	Impeller size	Rated Voltage (V)	Motor Power* (kW)		Rated current (A)	Speed (r/min)	Weight ** (kg)
					P ₁	P ₂			
150E-CB1	PE 45/4	IE3	7	460 3~	5.0	4.5	8.2	1750	170 / n.a.
	PE 56/4	IE3	6	460 3~	6.1	5.6	9.9	1750	180 / n.a.
	PE 75/4	IE3	5, 6	460 3~	8.2	7.5	13.8	1750	170 / n.a.
	PE 90/4	IE3	4, 5	460 3~	9.8	9.0	15.8	1750	200 / n.a.
	PE 105/4	IE3	4	460 3~	11.4	10.5	17.7	1750	210 / n.a.
	PE 35/6	IE2	4, 5, 6	460 3~	4.0	3.5	6.3	1180	170 / n.a.
150G-CB1	PE 130/4	IE3	8	460 3~	14.0	13.0	23.2	1750	350 / 400
	PE 150/4	IE3	7, 8	460 3~	16.1	15.0	25.5	1750	350 / 400
	PE 185/4	IE3	6, 7	460 3~	19.8	18.5	32.3	1750	380 / 420
	PE 210/4	IE3	4, 5, 6, 7	460 3~	22.4	21.0	35.4	1750	380 / 430
	PE 250/4	IE3	2, 3, 4, 5, 6, 7	460 3~	26.7	25.0	40.8	1750	400 / 460
	PE 350/4	IE3	1, 2, 3, 4, 5	460 3~	37.0	35.0	58.1	1750	410 / 470
	PE 110/6	IE3	1, 2, 3, 4	460 3~	12.0	11.0	21.1	1180	350 / 390
	PE 130/6	IE3	1	460 3~	14.2	13.0	23.7	1180	360 / 400
151E-CB2	PE 75/4	IE3	4	460 3~	8.2	7.5	13.8	1750	180 / n.a.
	PE 90/4	IE3	2, 3	460 3~	9.8	9.0	15.8	1750	200 / n.a.
	PE 105/4	IE3	1	460 3~	11.4	10.5	17.7	1750	210 / n.a.
	PE 35/6	IE2	1, 2, 3, 4	460 3~	4.0	3.5	6.3	1750	170 / n.a.
155G-CB2	PE 200/6	IE3	1	460 3~	21.5	20.0	32.7	1180	410 / 460
	PE 160/6	IE3	1, 2, 3	460 3~	17.5	16.0	28.4	1180	360 / n.a.
	PE 130/6	IE3	2, 3, 4	460 3~	14.2	13.0	23.7	1180	350 / n.a.
	PE 110/6	IE3	4, 5	460 3~	12.0	11.0	21.1	1180	350 / 390
	PE 90/6	IE3	5	460 3~	10.0	9.0	18.8	1180	350 / 390
200G-CB1	PE 90/6	IE3	3, 4	460 3~	10.0	9.0	18.8	1180	390 / 430
	PE 110/6	IE3	1, 2	460 3~	12.0	11.0	21.1	1180	390 / 430
	PE 130/6	IE3	1	460 3~	14.2	13.0	23.7	1180	390 / 430
205G-CB2	PE 350/4	IE3	4	460 3~	37.0	35.0	58.1	1750	460 / 510
	PE 250/4	IE3	4	460 3~	26.7	25.0	40.8	1750	440 / 490
	PE 90/6	IE3	4	460 3~	10.0	9.0	18.8	1180	400 / 440
	PE 130/6	IE3	1, 2	460 3~	14.2	13.0	23.7	1180	410 / 450
	PE 160/6	IE3	1	460 3~	17.5	16.0	28.4	1180	390 / n.a.
	PE 110/6	IE3	2, 3	460 3~	12.0	11.0	23.7	1180	380 / 420
206G-CB2	PE 200/6	IE3	3, 4	460 3~	21.5	20.0	32.7	1180	450 / 500
	PE 250/6	IE3	3	460 3~	26.9	25.0	39.8	1180	480 / 530
	PE 160/6	IE3	4, 5	460 3~	17.5	16.0	28.4	1180	445 / 485
	PE 130/6	IE3	5	460 3~	14.2	13.0	23.7	1180	430 / 470
	PE 120/8	IE3	2, 3, 4, 5	460 3~	13.5	12.0	23.7	870	390 / 430

*P₁ = power at mains. P₂ = power at motor shaft. **Without / with cooling jacket; includes 10 m cable.

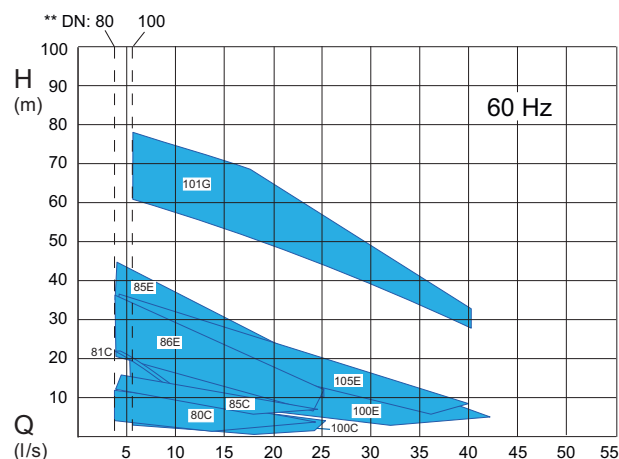
Data for alternative voltages available on request. Cable data for EMC and alternative start options available on request.

Performance fields

Contrablock impeller



Vortex impeller



* Minimum flow rate Q. Please use the ABSEL program as the only valid selection tool.

Standards and options

Description	Standard	Option
Mains voltage	460 V 3~	220, 230, 380 V 3~*
Voltage tolerance	± 10%	-
Motor efficiency	Premium Eff. IE3	-
Insulation class	H	-
Start-up	Direct on line (DOL), star-delta (YΔ)	-
Approvals	ATEX	-
Mechanical seal (at medium side)	SiC-SiC-NBR	SiC-SiC-Viton
Mechanical seal (at motor side)	SiC-C-NBR (80C - 150E), SiC-SiC-NBR (100G - 206G)	-
O-rings (external seals)	NBR	Viton (not available for cable entry seal)
Cables	H07RN8-F	EMC
Cable length (m)	10	15, 20, 30
Protective coating	2k Epoxy 120 µm	2k Epoxy 400 µm
Preparation for lifting hoist	Lifting hoop	-
Cooling	Self-cooling (80C - 150E); by the medium (100G - 206G)	Closed cooling (100G - 206G)
Installation	Wet-well	Dry well*** or transportable

* Selected motors only. Contact Sulzer for details. ** See Technical Data table. *** Except XFP 80E and 81E.

Monitoring

Description		Standard	Option
Motor (temperature)	Bi-metallic switch in windings	●	-
	PTC thermistor in windings	-	●**
Seals (leakage)	Moisture sensor (DI) in motor and seal chambers (80C - 150E)	●	-
	Moisture sensor (DI) in motor chamber (100G - 206G)	●	-

Temperature and leakage relays are required. See accessories table.

** Must be selected when pump is operated via VFD.

Materials

Description	Material	Option
Motor housing	Cast iron EN-GJL-250	-
Cooling jacket	Cast iron EN-GJL-250	-
Volute	Cast iron EN-GJL-250	Ceramic coated EN-GJL-250***
Impeller	Cast iron EN-GJL-250	Stainless steel 1.4470 (AISI 329)***, High Chrome (ASTM A-532 Alloy III A)***, Flame hardened or ceramic coated EN-GJL-250***
Bottom plate	Cast iron EN-GJL-250	Stainless steel 1.4470 (AISI 329)***, High Chrome (ASTM A-532 Alloy III A)***, Flame hardened or ceramic coated EN-GJL-250***
Motor shaft	Stainless steel 1.4021 (AISI 420)	-
Lifting hoop	Stainless steel 1.4401 (AISI 316)	-
Fasteners	Stainless steel 1.4401 (AISI 316)	-

*** Selected models only. Contact Sulzer for details.

Accessories

	Description	Size	XFP	Part no.
Fixed installation - wet well with Sulzer Automatic Coupling System	Pedestal* (cast iron EN-GJL-250) 90° cast bend (single guide rail) - DIN flange connection	DN 80	80C, 81C, 80E, 85C, 85E, 86E	62320649
		DN 100	100C, 100E, 100G, 105E	62320652
	90° cast bend (single guide rail) - plug/clamp connection	DN 100 (high-head)	101G, 105G	DPR32211F
		DN 150	150E, 151E, 150G	62320655
		DN 150	155G	DPS91211F
		DN 200	205G, 206G	DPT91211F
		DN 200	200G & 201G	62320658
	90° cast bend (single guide rail) - plug/clamp connection	DN 80 (pipe Ø 90 mm)	80C, 81C, 85C, 85E, 86E	62320650
		DN 100 (pipe Ø 109 mm)	100C, 100E, 100G, 105E	62320653
		DN 100 (pipe Ø 115 mm)	100C, 100E, 100G, 105E	62320654
		DN 150 (pipe Ø 160 mm)	150E, 151E, 150G	62320656
		DN 150 (pipe Ø 169 mm)	150E, 151E, 150G	62320657
	90° cast bend (twin guide rail) - DIN flange connection	DN 80	80C, 81C, 80E, 85C, 85E, 86E	62325025
		DN 100	100C, 100E, 100G, 105E	62325026
		DN 100	105G	DPRF1211F
		DN 150	150E, 151E, 150G	62325027
		DN 200	155G, 200G, 201G, 205G, 206G	62325028
	Pedestal bracket fasteners single guide rail version (galvanised steel)		80C - 86E	62610632
			100C - 105G	62610633
	single guide rail version (stainless steel)		150E - 155G	62610635
			200G - 206G	62610883
			80C - 86E	62610899
			100C - 105G	62610637
	twin guide rail version (galvanised steel)		150E - 155G	62610639
			200G - 206G	62610862
			80C - 81E	62615053
			100C - 101G	62615054
Fixed installation - wet well with Sulzer Automatic Coupling System	Pedestal base anchor bolts single and twin guide rail (galvanised steel)		150E - 155G	62615055
			200G - 206G	62615056
	Chain Kits (stainless steel) including shackle Working load limit (WLL) 320 kg	1.6 m	80C - 101G	62610775
		3.0 m	150E - 155G	62610784
		4.0 m	200G - 206G	62610785
		6.0 m	See pump weights for selection	310101395001
		7.0 m		310101236003
	Working load limit (WLL) 400 kg	3.0 m		310101236004
		4.0 m		310101236006
		6.0 m		310101236007
		7.0 m		310101236013
			See pump weights for selection	310101236014
	Working load limit (WLL) 630 kg	3.0 m		310101236016
		4.0 m		310101236017
		6.0 m		310101236033
		7.0 m		310101236034
			See pump weights for selection	310101236036
Fixed installation - dry well, (horizontal)	Pump Support Kit (EN-GJL-250) head and volute supports with fixing bolts and vibration damper		80C, 85C	61825032
			80C**, 81C, 100C	61825033
	(vertical)		81E***, 85E, 86E, 105E	61825038
			100E	61825030
			150E, 151E	61825031
			101G	61825036
			100G - 206G, 101G**	61825037
			80C, 81C, 85C	61355014
			85E, 86E	61355020
			100C, 105E	61355015
			100E	61355021
			150E, 151E	61355022
			101G	61355024
			100G - 206G, 101G**	61355023
	Ground Support Stand		80C***	62665347
			100C***	62665348
Transportable	Adapter kit (required with support stand)			
Transportable	Skirtbase		80C, 81C, 85C, 100C	61355016
			80E, 85E, 86E	61355017
			100E, 105E	61355018
			150E, 151E	61355019
			101G	61355026
			100G - 206G, 101G**	61355025

	Description	Size	XFP	Part no.
General	Cathodic Protection (zinc anodes)		80C - 206G	13905000
	Leakage Relay Type ABS CA 461	110 - 230 VAC 18 - 36 VDC, SELV	80C - 206G	16907010 16907011
	Temperature and Leakage Relay Type ABS CA 462	110 - 230 VAC 18 - 36 VDC, SELV	80C - 206G	16907006 16907007

*Guide rail not included **Vortex version of pumps (VX) *** Only with PE 80/2 motor

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