S pumps, range 50

Up to 13 kW
50 Hz

Contents

Introduction

Introduction 3
Applications 3
Main constructional features 3

Performance range

Performance range, S pumps 4
Performance range, S pumps, range 50 4

Identification

Type key 5
Nameplates 6

Selection of product

Ordering a pump 7

Product range

Standard pumps 8
Explosion-proof pumps 14

Variants

List of variants 19

Construction

Sectional drawings, motors 20
Sectional drawings, pumps 24
Components and material specification 30

Product description

Features 31
Operating conditions 32
Motor range 32
Explosion-proof pumps 32
Pump controllers 33
Wiring diagrams 33

Curve charts and technical data

How to read the curve charts 34
Curve conditions 35
Performance tests 35
Certificates 35
Witness test 35

Performance curves Technical data

SuperVortex - 3 x 400/690 V 36
SuperVortex - 3 x 415 V 38
Extra-low pressure - 3 x 400/690 V 40
Extra-low pressure - 3 x 415 V 42
Low pressure - 3 x 400/690 V 44
Low pressure - 3 x 415 V 46
Medium pressure - 3 x 400/690 V 48
Medium pressure - 3 x 415 V 50
High pressure - 3 x 400/690 V 52
High pressure - 3 x 415 V 54
Super-high pressure - 3 x 400/690 V 56
Super-high pressure - 3 x 415 V 58

Accessories

Accessories (for installation) 60
Other accessories 61

Dimensions

Installation on auto coupling 62
Installation on ring stand 65
Installation on base stand (dry, vertical) 66
Installation on bracket (dry, horisontal) 67

Further product documentation

WebCAPS 68
WinCAPS 69

Introduction

This data booklet deals with Grundfos heavy-duty sewage pumps called S pumps, range 50.

Fig. 1 S pump, range 50

The S pumps, range 50, are a range of free-flow (SuperVortex) and channel impeller pumps specifically designed for pumping sewage and wastewater in a wide range of municipal, private and industrial applications.

The pumps are made of resistant materials, such as cast iron and stainless steel. These materials ensure a proper operation.

The pumps are fitted with motors from 5.5 kW up to 13.0 kW. The motors are either 2- or 4-pole motors, depending on the motor size.

The free passage in the pumps is 80 to 100 mm.

The pumps are available for:

- submerged installation on auto-coupling system
- submerged installation, free-standing
- dry installation, vertical
- dry installation, horizontal.

Applications

The S pumps, range 50, are designed for applications, such as:

- raw water intake
- wastewater treatment plants
- municipal pumping stations
- public buildings
- blocks of flats
- industries
- garages
- underground car parks
- car wash areas
- restaurants and hotels.

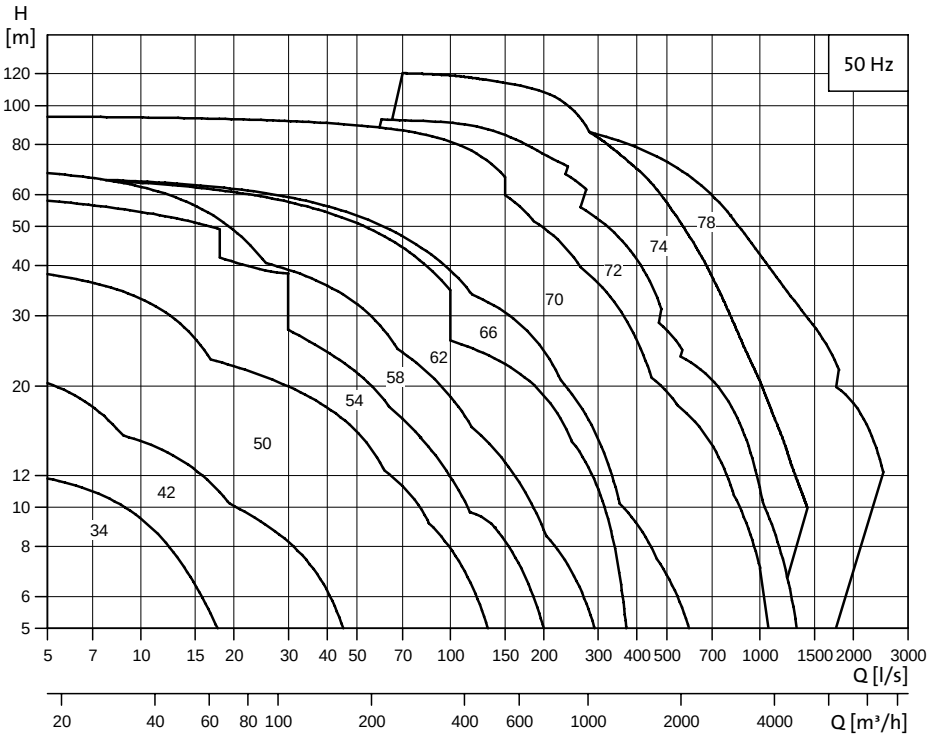
The pumps are suitable for both temporary and permanent installation. The lifting bracket fitted on the pumps facilitates easy transportation to as well as installation at the installation site.

Main constructional features

- leak-proof connections via the Grundfos SmartSeal gasket system
- double mechanical shaft seal system for reliable sealing between pumped liquid and motor
- watertight cable entry of corrosion-resistant polyamide
- moisture switch for continuous monitoring of motor housing and automatic cut-off of power in case liquid penetrates
- self-cleaning channel impeller with long vanes reducing the risk of jamming or clogging, or SuperVortex impeller with high pumping efficency and less downtime
- SmartTrim system allowing easy adjustment of impeller clearance and maintaining maximum pump efficiency over pump lifetime
- motor in insulation class F (155 °C), enclosure class IP68 with three thermal sensors in stator windings
- seal condition monitoring via water-in-oil sensor (optional)
- explosion-proof motors for applications involving high risk of explosion
- three stainless steel versions for use in corrosive or aggressive liquids:
  - stainless steel impeller, cast iron pump and motor housing
  - stainless steel pump housing, flange and impeller, cast iron motor housing
  - made entirely of corrosion-resistant stainless steel.

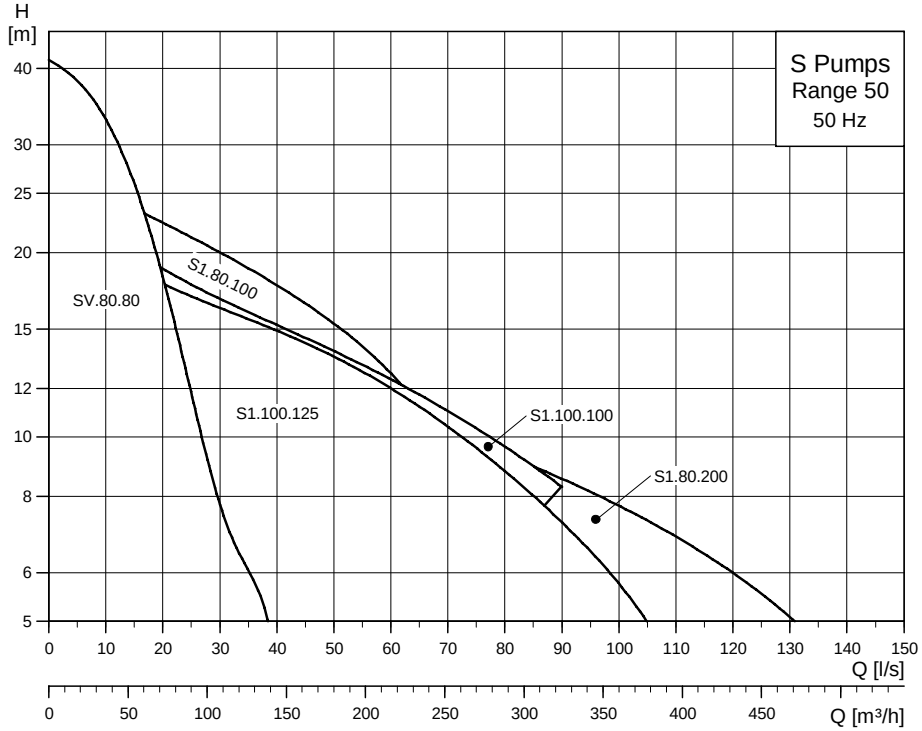
Performance range

Performance range, S pumps



TM03 5469 3706

Performance range, S pumps, range 50



TM04 1712 1008

Identification

Type key

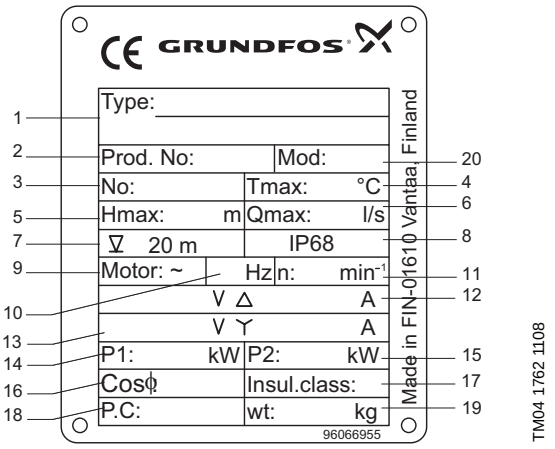
Code	Example	S	1	.100	.100	.55	4	.50M	.S	.205	.G	.N	.D	.Z
	Pump type:													
S	Grundfos sewage and wastewater pump													
ST	Multi-channel impeller pump installed in a column pipe													
	Impeller type:													
1	Single-channel impeller													
V	SuperVortex (free-flow) impeller													
	Pump passage:													
	Maximum solids size [mm]													
	Pump discharge:													
	Nominal diameter of pump discharge port [mm]													
	Output power, P2:													
	P2 = Code number from type designation/10 [kW]													
	Number of poles:													
2	2-pole motor													
4	4-pole motor													
	Pump range / Pressure version:													
50S	Super-high pressure													
50H	High pressure													
50M	Medium pressure													
50L	Low pressure													
50E	Extra-low pressure													
50F	Super-low pressure													
	Installation:													
S	Submersible installation without cooling jacket													
C	Submersible installation with cooling jacket													
D	Dry installation, vertical													
H	Dry installation, horizontal.													
	Actual impeller diameter:													
	[mm]													
	Material code for impeller, pump and motor housing:													
G	Impeller, pump housing and motor housing: Cast iron													
R	Impeller, pump housing and motor housing: Stainless steel DIN W.-Nr. 1.4408													
S	Impeller and pump housing: Stainless steel DIN W.-Nr. 1.4408													
Q	Impeller: Stainless steel DIN W.-Nr. 1.4408													
D	Impeller: Duplex steel.													
	Pump version:													
N	Non-explosion-proof pump													
Ex	Explosion-proof pump													
	Sensor version:													
B	B = S pump with built-in SM 111 module *													
C	C = Not in use													
D	D = S pump without built-in SM 111 module.													
Z	Custom-built products													

* PTC sensors are connected directly to the IO 111 or another PTC relay.

Identification

Nameplates

Pump nameplate



TM04 1762 1108

Fig. 2 Pump nameplate

Pos.	Description
1	Type designation
2	SAP code
3	Serial number
4	Maximum liquid temperature
5	Maximum head
6	Maximum flow
7	Maximum installation depth
8	Enclosure class
9	Number of phases
10	Frequency
11	Rated speed
12	Voltage/current, delta connection
13	Voltage/current, star connection
14	Power input
15	Shaft power
16	Power factor
17	Insulation class
18	Production code, year/week
19	Weight of the pump
20	Model

Ex approval plates

TM04 4122 0809

Fig. 3 Ex approval plates

The approval plate gives the following details:

Pos.	Description
Ex	EU ex-symbol
II	Equipment group (II = non-mining)
2	Equipment category (high protection)
G	Type of explosive atmosphere
CE	CE mark
1180	Number of quality assurance notified body
Ex	Motor explosion-proof according to European standard
b	Control of ignition sources
c	Constructional safety
d	Motor withstands explosion pressure
IIB	Gas group (Ethylene)
T3	Maximum surface temperature of the motor is 200 °C
T4	Maximum surface temperature of the motor is 135 °C
Gb	Equipment protection level, zone 1
Baseefa	Certificate number
IECEx	Certificate number

Selection of product

Ordering a pump

When ordering an S pump, range 50, you need to take the following four aspects into consideration.

1. Pump
2. Custom-built variation (option)
3. Accessories
4. Controller.

Pump

Use section *Product range* on page 8 and section *Type key* on page 5 to identify the pump that best fulfils your needs. The list below is a detailed description of the product you get if you order the following pump:

Pump	Product no.
S1.100.100.55.4.50M.S.205.G.N.D	95113667

- Pump as specified in the type key
- 10 m cable
- Paint: Graphic grey, NCS S8005-R80B, thickness 150 µ
- Three thermal switches (Klixon), one in each phase, or three thermal sensors (PTC)
- One moisture switch below the motor top cover (two moisture switches below the motor top cover on explosion-proof versions)
- Test according to DIN 9906, Annex A.

See section *Performance curves Technical data* for selection of a standard pump.

Note: Product specific data for the pump can also be seen in WebCAPS using the product number 95113667.

Custom-built variants

The S pumps can be customised to meet individual requirements. Many pump features and options are available for customisation e.g. explosion-proof versions, various cable lengths or special materials.

Variants can be seen in *List of variants* on page 19. For requirements or designs not included in the list, contact Grundfos.

Accessories

Depending on the installation type, you may need to order accessories. See *Accessories* on page 62 for selection of the correct accessories.

Note: Ordered accessories are not fitted from factory.

Controller

The following controllers are available:

- LC/LCD 107 with level pickups
- LC/LCD 108 with float switches
- LC/LCD 110 with level electrodes.

Standard pumps

Cast iron, 3 x 400/690 V

Pump type	Pump	Accessories			
		** Horizontal base stand	To be ordered separately		
			Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.G.N.D	95113712	-	-	96102240	96102313
SV.80.80.74.2.50H.C.179.G.N.D	95113713	-	96308237	96102240	96102313
SV.80.80.74.2.50H.H.179.G.N.D	95113714	96776518	-	-	-
SV.80.80.94.2.50H.S.191.G.N.D	95113715	-	-	96102240	96102313
SV.80.80.120.2.50H.S.201.G.N.D	95113716	-	-	96102240	96102313
SV.80.80.120.2.50H.C.198.G.N.D	95113717	-	96308237	96102240	96102313
SV.80.80.120.2.50H.H.198.G.N.D	95113718	96776518	-	-	-
S1.80.100.55.4.50H.S.212.G.N.D	95113670	-	-	96090994	96102255
S1.80.100.55.4.50H.C.212.G.N.D	95113671	-	96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.G.N.D	95113672	96776518	-	-	-
S1.80.100.75.4.50S.S.275.G.N.D	95113685	-	-	96090994	96102255
S1.80.100.75.4.50S.C.275.G.N.D	95113686	-	96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.G.N.D	95113687	96776518	-	-	-
S1.80.100.75.4.50H.S.239.G.N.D	95113679	-	-	96090994	96102255
S1.80.100.75.4.50H.C.239.G.N.D	95113680	-	96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.G.N.D	95113681	96776518	-	-	-
S1.80.100.100.4.50H.S.260.G.N.D	95113691	-	-	96090994	96102255
S1.80.100.100.4.50H.C.260.G.N.D	95113692	-	96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.G.N.D	95113693	96776518	-	-	-
S1.80.100.125.4.50H.S.275.G.N.D	95113703	-	-	96090994	96102255
S1.80.100.125.4.50H.C.275.G.N.D	95113704	-	96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.G.N.D	95113705	96776518	-	-	-
S1.80.200.75.4.50E.S.198.G.N.D	95113676	-	-	96641489	96789480
S1.80.200.75.4.50E.C.198.G.N.D	95113677	-	96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.G.N.D	95113678	96801088	-	-	-
S1.80.200.100.4.50E.S.220.G.N.D	95113688	-	-	96641489	96789480
S1.80.200.100.4.50E.C.220.G.N.D	95113689	-	96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.G.N.D	95113690	96801088	-	-	-
S1.80.200.125.4.50E.S.244.G.N.D	95113700	-	-	96641489	96789480
S1.80.200.125.4.50E.C.244.G.N.D	95113701	-	96094523	96641489	96789480
S1.80.200.125.4.50E.H.244.G.N.D	95113702	96801088	-	-	-
S1.100.100.55.4.50M.S.205.G.N.D	95113667	-	-	96090994	96102314
S1.100.100.55.4.50M.C.205.G.N.D	95113668	-	96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.G.N.D	95113669	96776517	-	-	-
S1.100.100.75.4.50M.S.221.G.N.D	95113673	-	-	96090994	96102314
S1.100.100.75.4.50M.C.221.G.N.D	95113674	-	96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.G.N.D	95113675	96776517	-	-	-
S1.100.100.100.4.50M.S.241.G.N.D	95113697	-	-	96090994	96102314
S1.100.100.100.4.50M.C.241.G.N.D	95113698	-	96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.G.N.D	95113699	96776517	-	-	-
S1.100.100.125.4.50M.S.256.G.N.D	95113709	-	-	96090994	96102314
S1.100.100.125.4.50M.C.256.G.N.D	95113710	-	96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.G.N.D	95113711	96776517	-	-	-
S1.100.125.75.4.50L.S.226.G.N.D	95113682	-	-	96782145	96789479
S1.100.125.75.4.50L.C.226.G.N.D	95113683	-	96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.G.N.D	95113684	96776517	-	-	-
S1.100.125.100.4.50L.S.243.G.N.D	95113694	-	-	96782145	96789479
S1.100.125.100.4.50L.C.243.G.N.D	95113695	-	96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.G.N.D	95113696	96776517	-	-	-
S1.100.125.125.4.50L.S.267.G.N.D	95113706	-	-	96782145	96789479
S1.100.125.125.4.50L.C.267.G.N.D	95113707	-	96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.G.N.D	95113708	96776517	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Cast iron, 3 x 415 V

Pump type	Cable length [m]	Pump	Accessories			
			To be ordered separately			
			** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.G.N.D	10	96776493	-	-	96102240	96102313
SV.80.80.74.2.50H.C.179.G.N.D	10	96776494	-	96308237	96102240	96102313
SV.80.80.74.2.50H.H.179.G.N.D	10	96776495	96776518	-	-	-
SV.80.80.94.2.50H.S.191.G.N.D	10	96776496	-	-	96102240	96102313
SV.80.80.120.2.50H.S.201.G.N.D	10	96776497	-	-	96102240	96102313
SV.80.80.120.2.50H.C.198.G.N.D	10	96776498	-	96308237	96102240	96102313
SV.80.80.120.2.50H.H.198.G.N.D	10	96776500	96776518	-	-	-
S1.80.100.55.4.50H.S.212.G.N.D	10	96776444	-	-	96090994	96102255
S1.80.100.55.4.50H.C.212.G.N.D	10	96776445	-	96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.G.N.D	10	96776446	96776518	-	-	-
S1.80.100.75.4.50S.S.275.G.N.D	10	96776465	-	-	96090994	96102255
S1.80.100.75.4.50S.C.275.G.N.D	10	96776466	-	96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.G.N.D	10	96776467	96776518	-	-	-
S1.80.100.75.4.50H.S.239.G.N.D	10	96776455	-	-	96090994	96102255
S1.80.100.75.4.50H.C.239.G.N.D	10	96776456	-	96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.G.N.D	10	96776457	96776518	-	-	-
S1.80.100.100.4.50H.S.260.G.N.D	10	96776472	-	-	96090994	96102255
S1.80.100.100.4.50H.C.260.G.N.D	10	96776473	-	96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.G.N.D	10	96776474	96776518	-	-	-
S1.80.100.125.4.50H.S.275.G.N.D	10	96776484	-	-	96090994	96102255
S1.80.100.125.4.50H.C.275.G.N.D	10	96776485	-	96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.G.N.D	10	96776486	96776518	-	-	-
S1.80.200.75.4.50E.C.198.G.N.D	10	96776450	-	96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.G.N.D	10	96776452	96801088	-	-	-
S1.80.200.75.4.50E.S.198.G.N.D	10	96780602	-	-	96641489	96789480
S1.80.200.100.4.50E.S.220.G.N.D	10	96776469	-	-	96641489	96789480
S1.80.200.100.4.50E.C.220.G.N.D	10	96776470	-	96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.G.N.D	10	96776471	96801088	-	-	-
S1.80.200.125.4.50E.S.244.G.N.D	10	96776481	-	-	96641489	96789480
S1.80.200.125.4.50E.C.244.G.N.D	10	96776482	-	96094523	96641489	96789480
S1.80.200.125.4.50E.H.244.G.N.D	10	96776483	96801088	-	-	-
S1.100.100.55.4.50M.S.205.G.N.D	10	96776410	-	-	96090994	96102314
S1.100.100.55.4.50M.C.205.G.N.D	10	96776411	-	96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.G.N.D	10	96776443	96776517	-	-	-
S1.100.100.75.4.50M.S.221.G.N.D	10	96776447	-	-	96090994	96102314
S1.100.100.75.4.50M.C.221.G.N.D	10	96776448	-	96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.G.N.D	10	96776449	96776517	-	-	-
S1.100.100.100.4.50M.S.241.G.N.D	10	96776478	-	-	96090994	96102314
S1.100.100.100.4.50M.C.241.G.N.D	10	96776479	-	96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.G.N.D	10	96776480	96776517	-	-	-
S1.100.100.125.4.50M.S.256.G.N.D	10	96776490	-	-	96090994	96102314
S1.100.100.125.4.50M.C.256.G.N.D	10	96776491	-	96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.G.N.D	10	96776492	96776517	-	-	-
S1.100.125.75.4.50L.S.226.G.N.D	10	96776459	-	-	96782145	96789479
S1.100.125.75.4.50L.C.226.G.N.D	10	96776462	-	96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.G.N.D	10	96776464	96776517	-	-	-
S1.100.125.100.4.50L.S.243.G.N.D	10	96776475	-	-	96782145	96789479
S1.100.125.100.4.50L.C.243.G.N.D	10	96776476	-	96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.G.N.D	10	96776477	96776517	-	-	-
S1.100.125.125.4.50L.S.267.G.N.D	10	96776487	-	-	96782145	96789479
S1.100.125.125.4.50L.C.267.G.N.D	10	96776488	-	96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.G.N.D	10	96776489	96776517	-	-	-

(Table to be continued on the next page)

Product range

Pump type	Cable length [m]	Pump	Accessories			
			** Horizontal base stand	To be ordered separately		
				Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.G.N.D	15	96810333	-	-	96102240	96102313
SV.80.80.74.2.50H.C.179.G.N.D	15	96810334	-	96308237	96102240	96102313
SV.80.80.74.2.50H.H.179.G.N.D	15	96810335	96776518	-	-	-
SV.80.80.94.2.50H.S.191.G.N.D	15	96810336	-	-	96102240	96102313
SV.80.80.120.2.50H.S.201.G.N.D	15	96810337	-	-	96102240	96102313
SV.80.80.120.2.50H.C.198.G.N.D	15	96810338	-	96308237	96102240	96102313
SV.80.80.120.2.50H.H.198.G.N.D	15	96810339	96776518	-	-	-
S1.80.100.55.4.50H.S.212.G.N.D	15	96810211	-	-	96090994	96102255
S1.80.100.55.4.50H.C.212.G.N.D	15	96810292	-	96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.G.N.D	15	96810293	96776518	-	-	-
S1.80.100.75.4.50S.S.275.G.N.D	15	96810306	-	-	96090994	96102255
S1.80.100.75.4.50S.C.275.G.N.D	15	96810307	-	96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.G.N.D	15	96810308	96776518	-	-	-
S1.80.100.75.4.50H.S.239.G.N.D	15	96810300	-	-	96090994	96102255
S1.80.100.75.4.50H.C.239.G.N.D	15	96810301	-	96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.G.N.D	15	96810302	96776518	-	-	-
S1.80.100.100.4.50H.S.260.G.N.D	15	96810312	-	-	96090994	96102255
S1.80.100.100.4.50H.C.260.G.N.D	15	96810313	-	96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.G.N.D	15	96810314	96776518	-	-	-
S1.80.100.125.4.50H.S.275.G.N.D	15	96810324	-	-	96090994	96102255
S1.80.100.125.4.50H.C.275.G.N.D	15	96810325	-	96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.G.N.D	15	96810326	96776518	-	-	-
S1.80.200.75.4.50E.S.198.G.N.D	15	96810297	-	-	96641489	96789480
S1.80.200.75.4.50E.C.198.G.N.D	15	96810298	-	96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.G.N.D	15	96810299	96801088	-	-	-
S1.80.200.100.4.50E.S.220.G.N.D	15	96810309	-	-	96641489	96789480
S1.80.200.100.4.50E.C.220.G.N.D	15	96810310	-	96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.G.N.D	15	96810311	96801088	-	-	-
S1.80.200.125.4.50E.S.244.G.N.D	15	96810321	-	-	96641489	96789480
S1.80.200.125.4.50E.C.244.G.N.D	15	96810322	-	96094523	96641489	96789480
S1.80.200.125.4.50E.H.244.G.N.D	15	96810323	96801088	-	-	-
S1.100.100.55.4.50M.S.205.G.N.D	15	96810208	-	-	96090994	96102314
S1.100.100.55.4.50M.C.205.G.N.D	15	96810209	-	96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.G.N.D	15	96810210	96776517	-	-	-
S1.100.100.75.4.50M.S.221.G.N.D	15	96810294	-	-	96090994	96102314
S1.100.100.75.4.50M.C.221.G.N.D	15	96810295	-	96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.G.N.D	15	96810296	96776517	-	-	-
S1.100.100.100.4.50M.S.241.G.N.D	15	96810318	-	-	96090994	96102314
S1.100.100.100.4.50M.C.241.G.N.D	15	96810319	-	96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.G.N.D	15	96810320	96776517	-	-	-
S1.100.100.125.4.50M.S.256.G.N.D	15	96810330	-	-	96090994	96102314
S1.100.100.125.4.50M.C.256.G.N.D	15	96810331	-	96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.G.N.D	15	96810332	96776517	-	-	-
S1.100.125.75.4.50L.S.226.G.N.D	15	96810303	-	-	96782145	96789479
S1.100.125.75.4.50L.C.226.G.N.D	15	96810304	-	96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.G.N.D	15	96810305	96776517	-	-	-
S1.100.125.100.4.50L.S.243.G.N.D	15	96810315	-	-	96782145	96789479
S1.100.125.100.4.50L.C.243.G.N.D	15	96810316	-	96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.G.N.D	15	96810317	96776517	-	-	-
S1.100.125.125.4.50L.S.267.G.N.D	15	96810327	-	-	96782145	96789479
S1.100.125.125.4.50L.C.267.G.N.D	15	96810328	-	96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.G.N.D	15	96810329	96776517	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Pumps with 15 m cable have PTC thermal protection.

Stainless steel impeller, 3 x 400/690 V

Pump type	Pump	Accessories			
			To be ordered separately		
		** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.Q.N.D	96810939	-	-	96102240	96102313
SV.80.80.74.2.50H.C.179.Q.N.D	96810940	-	96308237	96102240	96102313
SV.80.80.74.2.50H.H.179.Q.N.D	96810941	96776518	-	-	-
SV.80.80.94.2.50H.S.191.Q.N.D	96810942	-	-	96102240	96102313
SV.80.80.120.2.50H.S.201.Q.N.D	96810943	-	-	96102240	96102313
SV.80.80.120.2.50H.C.198.Q.N.D	96810944	-	96308237	96102240	96102313
SV.80.80.120.2.50H.H.198.Q.N.D	96810945	96776518	-	-	-
S1.80.100.55.4.50H.S.212.Q.N.D	96810897	-	-	96090994	96102255
S1.80.100.55.4.50H.C.212.Q.N.D	96810898	-	96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.Q.N.D	96810899	96776518	-	-	-
S1.80.100.75.4.50S.S.275.Q.N.D	96810912	-	-	96090994	96102255
S1.80.100.75.4.50S.C.275.Q.N.D	96810913	-	96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.Q.N.D	96810914	96776518	-	-	-
S1.80.100.75.4.50H.S.239.Q.N.D	96810906	-	-	96090994	96102255
S1.80.100.75.4.50H.C.239.Q.N.D	96810907	-	96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.Q.N.D	96810908	96776518	-	-	-
S1.80.100.100.4.50H.S.260.Q.N.D	96810918	-	-	96090994	96102255
S1.80.100.100.4.50H.C.260.Q.N.D	96810919	-	96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.Q.N.D	96810920	96776518	-	-	-
S1.80.100.125.4.50H.S.275.Q.N.D	96810930	-	-	96090994	96102255
S1.80.100.125.4.50H.C.275.Q.N.D	96810931	-	96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.Q.N.D	96810932	96776518	-	-	-
S1.80.200.75.4.50E.S.198.Q.N.D	96810903	-	-	96641489	96789480
S1.80.200.75.4.50E.C.198.Q.N.D	96810904	-	96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.Q.N.D	96810905	96801088	-	-	-
S1.80.200.100.4.50E.S.220.Q.N.D	96810915	-	-	96641489	96789480
S1.80.200.100.4.50E.C.220.Q.N.D	96810916	-	96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.Q.N.D	96810917	96801088	-	-	-
S1.80.200.125.4.50E.S.244.Q.N.D	96810927	-	-	96641489	96789480
S1.80.200.125.4.50E.C.244.Q.N.D	96810928	-	96094523	96641489	96789480
S1.80.200.125.4.50E.H.244.Q.N.D	96810929	96801088	-	-	-
S1.100.100.55.4.50M.S.205.Q.N.D	96810894	-	-	96090994	96102314
S1.100.100.55.4.50M.C.205.Q.N.D	96810895	-	96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.Q.N.D	96810896	96776517	-	-	-
S1.100.100.75.4.50M.S.221.Q.N.D	96810900	-	-	96090994	96102314
S1.100.100.75.4.50M.C.221.Q.N.D	96810901	-	96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.Q.N.D	96810902	96776517	-	-	-
S1.100.100.100.4.50M.S.241.Q.N.D	96810924	-	-	96090994	96102314
S1.100.100.100.4.50M.C.241.Q.N.D	96810925	-	96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.Q.N.D	96810926	96776517	-	-	-
S1.100.100.125.4.50M.S.256.Q.N.D	96810936	-	-	96090994	96102314
S1.100.100.125.4.50M.C.256.Q.N.D	96810937	-	96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.Q.N.D	96810938	96776517	-	-	-
S1.100.125.75.4.50L.S.226.Q.N.D	96810909	-	-	96782145	96789479
S1.100.125.75.4.50L.C.226.Q.N.D	96810910	-	96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.Q.N.D	96810911	96776517	-	-	-
S1.100.125.100.4.50L.S.243.Q.N.D	96810921	-	-	96782145	96789479
S1.100.125.100.4.50L.C.243.Q.N.D	96810922	-	96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.Q.N.D	96810923	96776517	-	-	-
S1.100.125.125.4.50L.S.267.Q.N.D	96810933	-	-	96782145	96789479
S1.100.125.125.4.50L.C.267.Q.N.D	96810934	-	96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.Q.N.D	96810935	96776517	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Stainless steel impeller and pump housing, 3 x 400/690 V

Pump type	Pump	Accessories			
			To be ordered separately		
		** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.S.N.D	96810991	-	-	96090109	
SV.80.80.74.2.50H.C.179.S.N.D	96810992	-	96090101	96090109	
SV.80.80.74.2.50H.H.179.S.N.D	96810993	96830544	-	-	-
SV.80.80.94.2.50H.S.191.S.N.D	96810994	-	-	96090109	
SV.80.80.120.2.50H.S.201.S.N.D	96810995	-	-	96090109	
SV.80.80.120.2.50H.C.198.S.N.D	96810996	-	96090101	96090109	
SV.80.80.120.2.50H.H.198.S.N.D	96810997	96830544	-	-	-
S1.80.100.55.4.50H.S.212.S.N.D	96810949	-	-	96090111	
S1.80.100.55.4.50H.C.212.S.N.D	96810950	-	96090101	96090111	
S1.80.100.55.4.50H.H.212.S.N.D	96810951	96830544	-	-	-
S1.80.100.75.4.50S.S.275.S.N.D	96810964	-	-	96090111	
S1.80.100.75.4.50S.C.275.S.N.D	96810965	-	96090101	96090111	
S1.80.100.75.4.50S.H.275.S.N.D	96810966	96830544	-	-	-
S1.80.100.75.4.50H.S.239.S.N.D	96810958	-	-	96090111	
S1.80.100.75.4.50H.C.239.S.N.D	96810959	-	96090101	96090111	
S1.80.100.75.4.50H.H.239.S.N.D	96810960	96830544	-	-	-
S1.80.100.100.4.50H.S.260.S.N.D	96810970	-	-	96090111	
S1.80.100.100.4.50H.C.260.S.N.D	96810971	-	96090101	96090111	
S1.80.100.100.4.50H.H.260.S.N.D	96810972	96830544	-	-	-
S1.80.100.125.4.50H.S.275.S.N.D	96810982	-	-	96090111	
S1.80.100.125.4.50H.C.275.S.N.D	96810983	-	96090101	96090111	
S1.80.100.125.4.50H.H.275.S.N.D	96810984	96830544	-	-	-
S1.80.200.75.4.50E.S.198.S.N.D	96810955	-	-	96090118	
S1.80.200.75.4.50E.C.198.S.N.D	96810956	-	96090119	96090118	
S1.80.200.75.4.50E.H.198.S.N.D	96810957	96830551	-	-	-
S1.80.200.100.4.50E.S.220.S.N.D	96810967	-	-	96090118	
S1.80.200.100.4.50E.C.220.S.N.D	96810968	-	96090119	96090118	
S1.80.200.100.4.50E.H.220.S.N.D	96810969	96830551	-	-	-
S1.80.200.125.4.50E.S.244.S.N.D	96810979	-	-	96090118	
S1.80.200.125.4.50E.C.244.S.N.D	96810980	-	96090119	96090118	
S1.80.200.125.4.50E.H.244.S.N.D	96810981	96830551	-	-	-
S1.100.100.55.4.50M.S.205.S.N.D	96810946	-	-	96090111	
S1.100.100.55.4.50M.C.205.S.N.D	96810947	-	96835614	96090111	
S1.100.100.55.4.50M.H.205.S.N.D	96810948	96830549	-	-	-
S1.100.100.75.4.50M.S.221.S.N.D	96810952	-	-	96090111	
S1.100.100.75.4.50M.C.221.S.N.D	96810953	-	96835614	96090111	
S1.100.100.75.4.50M.H.221.S.N.D	96810954	96830549	-	-	-
S1.100.100.100.4.50M.S.241.S.N.D	96810976	-	-	96090111	
S1.100.100.100.4.50M.C.241.S.N.D	96810977	-	96835614	96090111	
S1.100.100.100.4.50M.H.241.S.N.D	96810978	96830549	-	-	-
S1.100.100.125.4.50M.S.256.S.N.D	96810988	-	-	96090111	
S1.100.100.125.4.50M.C.256.S.N.D	96810989	-	96835614	96090111	
S1.100.100.125.4.50M.H.256.S.N.D	96810990	96830549	-	-	-
S1.100.125.75.4.50L.S.226.S.N.D	96810961	-	-	96090114	
S1.100.125.75.4.50L.C.226.S.N.D	96810962	-	96835614	96090114	
S1.100.125.75.4.50L.H.226.S.N.D	96810963	96830549	-	-	-
S1.100.125.100.4.50L.S.243.S.N.D	96810973	-	-	96090114	
S1.100.125.100.4.50L.C.243.S.N.D	96810974	-	96835614	96090114	
S1.100.125.100.4.50L.H.243.S.N.D	96810975	96830549	-	-	-
S1.100.125.125.4.50L.S.267.S.N.D	96810985	-	-	96090114	
S1.100.125.125.4.50L.C.267.S.N.D	96810986	-	96835614	96090114	
S1.100.125.125.4.50L.H.267.S.N.D	96810987	96830549	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Stainless steel impeller, pump- and motor housing, 3 x 400/690 V

Pump type	Pump	Accessories			
		** Horizontal base stand	To be ordered separately		
			Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.R.N.D	96811044	-	-		
SV.80.80.74.2.50H.C.175.R.N.D	96811045	-	-		
SV.80.80.74.2.50H.H.175.R.N.D	96811046	-	-		
SV.80.80.94.2.50H.S.191.R.N.D	96811047	-	-		
SV.80.80.120.2.50H.S.201.R.N.D	96811048	-	-		
SV.80.80.120.2.50H.C.201.R.N.D	96811049	-	-		
SV.80.80.120.2.50H.H.201.R.N.D	96811050	-	-		
S1.80.100.55.4.50H.S.212.R.N.D	96811001	-	-		
S1.80.100.55.4.50H.C.212.R.N.D	96811002	-	-		
S1.80.100.55.4.50H.H.212.R.N.D	96811003	-	-		
S1.80.200.75.4.50E.S.198.R.N.D	96811007	-	-		
S1.80.200.75.4.50E.C.198.R.N.D	96811008	-	-		
S1.80.200.75.4.50E.H.198.R.N.D	96811009	-	-		
S1.80.100.75.4.50H.S.239.R.N.D	96811010	-	-		
S1.80.100.75.4.50H.C.239.R.N.D	96811011	-	-		
S1.80.100.75.4.50H.H.239.R.N.D	96811012	-	-		
S1.80.100.75.4.50S.S.275.R.N.D	96811016	-	-		
S1.80.100.75.4.50S.C.275.R.N.D	96811017	-	-		
S1.80.100.75.4.50S.H.275.R.N.D	96811018	-	-		
S1.80.200.100.4.50E.S.220.R.N.D	96811019	-	-		
S1.80.200.100.4.50E.C.220.R.N.D	96811020	-	-		
S1.80.200.100.4.50E.H.220.R.N.D	96811021	-	-		
S1.80.100.100.4.50H.S.260.R.N.D	96811022	-	-		
S1.80.100.100.4.50H.C.260.R.N.D	96811023	-	-		
S1.80.100.100.4.50H.H.260.R.N.D	96811024	-	-		
S1.80.200.125.4.50E.S.227.R.N.D	96811031	-	-		
S1.80.200.125.4.50E.C.227.R.N.D	96811032	-	-		
S1.80.200.125.4.50E.H.227.R.N.D	96811033	-	-		
S1.80.100.125.4.50H.S.275.R.N.D	96811034	-	-		
S1.80.100.125.4.50H.C.275.R.N.D	96811035	-	-		
S1.80.100.125.4.50H.H.275.R.N.D	96811036	-	-		
S1.100.100.55.4.50M.S.205.R.N.D	96810998	-	-		
S1.100.100.55.4.50M.C.205.R.N.D	96810999	-	-		
S1.100.100.55.4.50M.H.205.R.N.D	96811000	-	-		
S1.100.100.75.4.50M.S.221.R.N.D	96811004	-	-		
S1.100.100.75.4.50M.C.221.R.N.D	96811005	-	-		
S1.100.100.75.4.50M.H.221.R.N.D	96811006	-	-		
S1.100.125.75.4.50L.S.226.R.N.D	96811013	-	-		
S1.100.125.75.4.50L.C.226.R.N.D	96811014	-	-		
S1.100.125.75.4.50L.H.226.R.N.D	96811015	-	-		
S1.100.125.100.4.50L.S.243.R.N.D	96811025	-	-		
S1.100.125.100.4.50L.C.243.R.N.D	96811026	-	-		
S1.100.125.100.4.50L.H.243.R.N.D	96811027	-	-		
S1.100.100.100.4.50M.S.241.R.N.D	96811028	-	-		
S1.100.100.100.4.50M.C.241.R.N.D	96811029	-	-		
S1.100.100.100.4.50M.H.241.R.N.D	96811030	-	-		
S1.100.125.125.4.50L.S.267.R.N.D	96811037	-	-		
S1.100.125.125.4.50L.C.267.R.N.D	96811039	-	-		
S1.100.125.125.4.50L.H.267.R.N.D	96811040	-	-		
S1.100.100.125.4.50M.S.256.R.N.D	96811041	-	-		
S1.100.100.125.4.50M.C.256.R.N.D	96811042	-	-		
S1.100.100.125.4.50M.H.256.R.N.D	96811043	-	-		

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Explosion-proof pumps

Cast iron, 3 x 400/690 V

Pump type	Pump	Accessories			
			To be ordered separately		
		** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.120.2.50H.C.201.G.EX.D	95113816		96308237	96102240	96102313
SV.80.80.120.2.50H.H.201.G.EX.D	95113817	96776518			
SV.80.80.120.2.50H.S.201.G.EX.D	95113815			96102240	96102313
SV.80.80.74.2.50H.C.175.G.EX.D	95113812		96308237	96102240	96102313
SV.80.80.74.2.50H.H.175.G.EX.D	95113813	96776518			
SV.80.80.74.2.50H.S.175.G.EX.D	95113811			96102240	96102313
SV.80.80.94.2.50H.S.191.G.EX.D	95113814			96102240	96102313
S1.80.100.100.4.50H.C.260.G.EX.D	95113791		96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.G.EX.D	95113792	96776518			
S1.80.100.100.4.50H.S.260.G.EX.D	95113790			96090994	96102255
S1.80.100.125.4.50H.C.275.G.EX.D	95113803		96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.G.EX.D	95113804	96776518			
S1.80.100.125.4.50H.S.275.G.EX.D	95113802			96090994	96102255
S1.80.100.55.4.50H.C.212.G.EX.D	95113770		96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.G.EX.D	95113771	96776518			
S1.80.100.55.4.50H.S.212.G.EX.D	95113769			96090994	96102255
S1.80.100.75.4.50H.C.239.G.EX.D	95113779		96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.G.EX.D	95113780	96776518			
S1.80.100.75.4.50H.S.239.G.EX.D	95113778			96090994	96102255
S1.80.100.75.4.50S.C.275.G.EX.D	95113785		96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.G.EX.D	95113786	96776518			
S1.80.100.75.4.50S.S.275.G.EX.D	95113784			96090994	96102255
S1.80.200.100.4.50E.C.220.G.EX.D	95113788		96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.G.EX.D	95113789	96801088			
S1.80.200.100.4.50E.S.220.G.EX.D	95113787			96641489	96789480
S1.80.200.125.4.50E.C.227.G.EX.D	95113800		96094523	96641489	96789480
S1.80.200.125.4.50E.H.227.G.EX.D	95113801	96801088			
S1.80.200.125.4.50E.S.227.G.EX.D	95113799			96641489	96789480
S1.80.200.75.4.50E.C.198.G.EX.D	95113776		96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.G.EX.D	95113777	96801088			
S1.80.200.75.4.50E.S.198.G.EX.D	95113775			96641489	96789480
S1.100.100.100.4.50M.C.241.G.EX.D	95113797		96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.G.EX.D	95113798	96776517			
S1.100.100.100.4.50M.S.241.G.EX.D	95113796			96090994	96102314
S1.100.100.125.4.50M.C.256.G.EX.D	95113809		96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.G.EX.D	95113810	96776517			
S1.100.100.125.4.50M.S.256.G.EX.D	95113808			96090994	96102314
S1.100.100.55.4.50M.C.205.G.EX.D	95113767		96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.G.EX.D	95113768	96776517			
S1.100.100.55.4.50M.S.205.G.EX.D	95113766			96090994	96102314
S1.100.100.75.4.50M.C.221.G.EX.D	95113773		96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.G.EX.D	95113774	96776517			
S1.100.100.75.4.50M.S.221.G.EX.D	95113772			96090994	96102314
S1.100.125.100.4.50L.C.243.G.EX.D	95113794		96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.G.EX.D	95113795	96776517			
S1.100.125.100.4.50L.S.243.G.EX.D	95113793			96782145	96789479
S1.100.125.125.4.50L.C.267.G.EX.D	95113806		96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.G.EX.D	95113807	96776517			
S1.100.125.125.4.50L.S.267.G.EX.D	95113805			96782145	96789479
S1.100.125.75.4.50L.C.226.G.EX.D	95113782		96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.G.EX.D	95113783	96776517			
S1.100.125.75.4.50L.S.226.G.EX.D	95113781			96782145	96789479

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Cast iron, 3 x 415 V

Pump type	Cable length [m]	Pump	Accessories			
			** Horizontal base stand	To be ordered separately		
				Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.G.EX.D	10	96781031	-	-	96102240	96102313
SV.80.80.74.2.50H.C.179.G.EX.D	10	96781032	-	96308237	96102240	96102313
SV.80.80.74.2.50H.H.179.G.EX.D	10	96781033	96776518	-	-	-
SV.80.80.94.2.50H.S.191.G.EX.D	10	96781034	-	-	96102240	96102313
SV.80.80.120.2.50H.S.201.G.EX.D	10	96781035	-	-	96102240	96102313
SV.80.80.120.2.50H.C.198.G.EX.D	10	96781036	-	96308237	96102240	96102313
SV.80.80.120.2.50H.H.198.G.EX.D	10	96781037	96776518	-	-	-
S1.80.100.55.4.50H.S.212.G.EX.D	10	96780979	-	-	96090994	96102255
S1.80.100.55.4.50H.C.212.G.EX.D	10	96780980	-	96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.G.EX.D	10	96780981	96776518	-	-	-
S1.80.100.75.4.50S.S.275.G.EX.D	10	96781004	-	-	96090994	96102255
S1.80.100.75.4.50S.C.275.G.EX.D	10	96781005	-	96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.G.EX.D	10	96781006	96776518	-	-	-
S1.80.100.75.4.50H.S.239.G.EX.D	10	96780998	-	-	96090994	96102255
S1.80.100.75.4.50H.C.239.G.EX.D	10	96780999	-	96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.G.EX.D	10	96781000	96776518	-	-	-
S1.80.100.100.4.50H.S.260.G.EX.D	10	96781010	-	-	96090994	96102255
S1.80.100.100.4.50H.C.260.G.EX.D	10	96781011	-	96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.G.EX.D	10	96781012	96776518	-	-	-
S1.80.100.125.4.50H.S.275.G.EX.D	10	96781022	-	-	96090994	96102255
S1.80.100.125.4.50H.C.275.G.EX.D	10	96781023	-	96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.G.EX.D	10	96781024	96776518	-	-	-
S1.80.200.75.4.50E.S.198.G.EX.D	10	96780995	-	-	96641489	96789480
S1.80.200.75.4.50E.C.198.G.EX.D	10	96780996	-	96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.G.EX.D	10	96780997	96801088	-	-	-
S1.80.200.100.4.50E.S.220.G.EX.D	10	96781007	-	-	96641489	96789480
S1.80.200.100.4.50E.C.220.G.EX.D	10	96781008	-	96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.G.EX.D	10	96781009	96801088	-	-	-
S1.80.200.125.4.50E.S.244.G.EX.D	10	96781019	-	-	96641489	96789480
S1.80.200.125.4.50E.C.244.G.EX.D	10	96781020	-	96094523	96641489	96789480
S1.80.200.125.4.50E.H.244.G.EX.D	10	96781021	96801088	-	-	-
S1.100.100.55.4.50M.S.205.G.EX.D	10	96780976	-	-	96090994	96102314
S1.100.100.55.4.50M.C.205.G.EX.D	10	96780977	-	96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.G.EX.D	10	96780978	96776517	-	-	-
S1.100.100.75.4.50M.S.221.G.EX.D	10	96780992	-	-	96090994	96102314
S1.100.100.75.4.50M.C.221.G.EX.D	10	96780993	-	96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.G.EX.D	10	96780994	96776517	-	-	-
S1.100.100.100.4.50M.S.241.G.EX.D	10	96781016	-	-	96090994	96102314
S1.100.100.100.4.50M.C.241.G.EX.D	10	96781017	-	96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.G.EX.D	10	96781018	96776517	-	-	-
S1.100.100.125.4.50M.S.256.G.EX.D	10	96781028	-	-	96090994	96102314
S1.100.100.125.4.50M.C.256.G.EX.D	10	96781029	-	96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.G.EX.D	10	96781030	96776517	-	-	-
S1.100.125.75.4.50L.S.226.G.EX.D	10	96781001	-	-	96782145	96789479
S1.100.125.75.4.50L.C.226.G.EX.D	10	96781002	-	96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.G.EX.D	10	96781003	96776517	-	-	-
S1.100.125.100.4.50L.S.243.G.EX.D	10	96781013	-	-	96782145	96789479
S1.100.125.100.4.50L.C.243.G.EX.D	10	96781014	-	96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.G.EX.D	10	96781015	96776517	-	-	-
S1.100.125.125.4.50L.S.267.G.EX.D	10	96781025	-	-	96782145	96789479
S1.100.125.125.4.50L.C.267.G.EX.D	10	96781026	-	96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.G.EX.D	10	96781027	96776517	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Stainless steel impeller, 3 x 400/690 V

Pump type	Pump	Accessories			
			To be ordered separately		
		** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.Q.EX.D	96811100	-	-	96102240	96102313
SV.80.80.74.2.50H.C.179.Q.EX.D	96811101	-	96308237	96102240	96102313
SV.80.80.74.2.50H.H.179.Q.EX.D	96811102	96776518	-	-	-
SV.80.80.94.2.50H.S.191.Q.EX.D	96811103	-	-	96102240	96102313
SV.80.80.120.2.50H.S.201.Q.EX.D	96811104	-	-	96102240	96102313
SV.80.80.120.2.50H.C.198.Q.EX.D	96811105	-	96308237	96102240	96102313
SV.80.80.120.2.50H.H.198.Q.EX.D	96811106	96776518	-	-	-
S1.80.100.55.4.50H.S.212.Q.EX.D	96811058	-	-	96090994	96102255
S1.80.100.55.4.50H.C.212.Q.EX.D	96811059	-	96308237	96090994	96102255
S1.80.100.55.4.50H.H.212.Q.EX.D	96811060	96776518	-	-	-
S1.80.100.75.4.50S.S.275.Q.EX.D	96811073	-	-	96090994	96102255
S1.80.100.75.4.50S.C.275.Q.EX.D	96811074	-	96308237	96090994	96102255
S1.80.100.75.4.50S.H.275.Q.EX.D	96811075	96776518	-	-	-
S1.80.100.75.4.50H.S.239.Q.EX.D	96811067	-	-	96090994	96102255
S1.80.100.75.4.50H.C.239.Q.EX.D	96811068	-	96308237	96090994	96102255
S1.80.100.75.4.50H.H.239.Q.EX.D	96811069	96776518	-	-	-
S1.80.100.100.4.50H.S.260.Q.EX.D	96811079	-	-	96090994	96102255
S1.80.100.100.4.50H.C.260.Q.EX.D	96811080	-	96308237	96090994	96102255
S1.80.100.100.4.50H.H.260.Q.EX.D	96811081	96776518	-	-	-
S1.80.100.125.4.50H.S.275.Q.EX.D	96811091	-	-	96090994	96102255
S1.80.100.125.4.50H.C.275.Q.EX.D	96811092	-	96308237	96090994	96102255
S1.80.100.125.4.50H.H.275.Q.EX.D	96811093	96776518	-	-	-
S1.80.200.75.4.50E.S.198.Q.EX.D	96811064	-	-	96641489	96789480
S1.80.200.75.4.50E.C.198.Q.EX.D	96811065	-	96094523	96641489	96789480
S1.80.200.75.4.50E.H.198.Q.EX.D	96811066	96801088	-	-	-
S1.80.200.100.4.50E.S.220.Q.EX.D	96811076	-	-	96641489	96789480
S1.80.200.100.4.50E.C.220.Q.EX.D	96811077	-	96094523	96641489	96789480
S1.80.200.100.4.50E.H.220.Q.EX.D	96811078	96801088	-	-	-
S1.80.200.125.4.50E.S.244.Q.EX.D	96811088	-	-	96641489	96789480
S1.80.200.125.4.50E.C.244.Q.EX.D	96811089	-	96094523	96641489	96789480
S1.80.200.125.4.50E.H.244.Q.EX.D	96811090	96801088	-	-	-
S1.100.100.55.4.50M.S.205.Q.EX.D	96811055	-	-	96090994	96102314
S1.100.100.55.4.50M.C.205.Q.EX.D	96811056	-	96308238	96090994	96102314
S1.100.100.55.4.50M.H.205.Q.EX.D	96811057	96776517	-	-	-
S1.100.100.75.4.50M.S.221.Q.EX.D	96811061	-	-	96090994	96102314
S1.100.100.75.4.50M.C.221.Q.EX.D	96811062	-	96308238	96090994	96102314
S1.100.100.75.4.50M.H.221.Q.EX.D	96811063	96776517	-	-	-
S1.100.100.100.4.50M.S.241.Q.EX.D	96811085	-	-	96090994	96102314
S1.100.100.100.4.50M.C.241.Q.EX.D	96811086	-	96308238	96090994	96102314
S1.100.100.100.4.50M.H.241.Q.EX.D	96811087	96776517	-	-	-
S1.100.100.125.4.50M.S.256.Q.EX.D	96811097	-	-	96090994	96102314
S1.100.100.125.4.50M.C.256.Q.EX.D	96811098	-	96308238	96090994	96102314
S1.100.100.125.4.50M.H.256.Q.EX.D	96811099	96776517	-	-	-
S1.100.125.75.4.50L.S.226.Q.EX.D	96811070	-	-	96782145	96789479
S1.100.125.75.4.50L.C.226.Q.EX.D	96811071	-	96308238	96782145	96789479
S1.100.125.75.4.50L.H.226.Q.EX.D	96811072	96776517	-	-	-
S1.100.125.100.4.50L.S.243.Q.EX.D	96811082	-	-	96782145	96789479
S1.100.125.100.4.50L.C.243.Q.EX.D	96811083	-	96308238	96782145	96789479
S1.100.125.100.4.50L.H.243.Q.EX.D	96811084	96776517	-	-	-
S1.100.125.125.4.50L.S.267.Q.EX.D	96811094	-	-	96782145	96789479
S1.100.125.125.4.50L.C.267.Q.EX.D	96811095	-	96308238	96782145	96789479
S1.100.125.125.4.50L.H.267.Q.EX.D	96811096	96776517	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Stainless steel impeller and pump housing, 3 x 400/690 V

Pump type	Pump	Accessories			
		To be ordered separately			
		** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.S.EX.D	96811152	-	-	96090109	
SV.80.80.74.2.50H.C.179.S.EX.D	96811153	-	96090101	96090109	
SV.80.80.74.2.50H.H.179.S.EX.D	96811154	96830544	-	-	-
SV.80.80.94.2.50H.S.191.S.EX.D	96811155	-	-	96090109	
SV.80.80.120.2.50H.S.201.S.EX.D	96811156	-	-	96090109	
SV.80.80.120.2.50H.C.198.S.EX.D	96811157	-	96090101	96090109	
SV.80.80.120.2.50H.H.198.S.EX.D	96811158	96830544	-	-	-
S1.80.100.55.4.50H.S.212.S.EX.D	96811110	-	-	96090111	
S1.80.100.55.4.50H.C.212.S.EX.D	96811111	-	96090101	96090111	
S1.80.100.55.4.50H.H.212.S.EX.D	96811112	96830544	-	-	-
S1.80.100.75.4.50S.S.275.S.EX.D	96811125	-	-	96090111	
S1.80.100.75.4.50S.C.275.S.EX.D	96811126	-	96090101	96090111	
S1.80.100.75.4.50S.H.275.S.EX.D	96811127	96830544	-	-	-
S1.80.100.75.4.50H.S.239.S.EX.D	96811119	-	-	96090111	
S1.80.100.75.4.50H.C.239.S.EX.D	96811120	-	96090101	96090111	
S1.80.100.75.4.50H.H.239.S.EX.D	96811121	96830544	-	-	-
S1.80.100.100.4.50H.S.260.S.EX.D	96811131	-	-	96090111	
S1.80.100.100.4.50H.C.260.S.EX.D	96811132	-	96090101	96090111	
S1.80.100.100.4.50H.H.260.S.EX.D	96811133	96830544	-	-	-
S1.80.100.125.4.50H.S.275.S.EX.D	96811143	-	-	96090111	
S1.80.100.125.4.50H.C.275.S.EX.D	96811144	-	96090101	96090111	
S1.80.100.125.4.50H.H.275.S.EX.D	96811145	96830544	-	-	-
S1.80.200.75.4.50E.S.198.S.EX.D	96811116	-	-	96090118	
S1.80.200.75.4.50E.C.198.S.EX.D	96811117	-	96090119	96090118	
S1.80.200.75.4.50E.H.198.S.EX.D	96811118	96830551	-	-	-
S1.80.200.100.4.50E.S.220.S.EX.D	96811128	-	-	96090118	
S1.80.200.100.4.50E.C.220.S.EX.D	96811129	-	96090119	96090118	
S1.80.200.100.4.50E.H.220.S.EX.D	96811130	96830551	-	-	-
S1.80.200.125.4.50E.S.244.S.EX.D	96811140	-	-	96090118	
S1.80.200.125.4.50E.C.244.S.EX.D	96811141	-	96090119	96090118	
S1.80.200.125.4.50E.H.244.S.EX.D	96811142	96830551	-	-	-
S1.100.100.55.4.50M.S.205.S.EX.D	96811107	-	-	96090111	
S1.100.100.55.4.50M.C.205.S.EX.D	96811108	-	96835614	96090111	
S1.100.100.55.4.50M.H.205.S.EX.D	96811109	96830549	-	-	-
S1.100.100.75.4.50M.S.221.S.EX.D	96811113	-	-	96090111	
S1.100.100.75.4.50M.C.221.S.EX.D	96811114	-	96835614	96090111	
S1.100.100.75.4.50M.H.221.S.EX.D	96811115	96830549	-	-	-
S1.100.100.100.4.50M.S.241.S.EX.D	96811137	-	-	96090111	
S1.100.100.100.4.50M.C.241.S.EX.D	96811138	-	96835614	96090111	
S1.100.100.100.4.50M.H.241.S.EX.D	96811139	96830549	-	-	-
S1.100.100.125.4.50M.S.256.S.EX.D	96811149	-	-	96090111	
S1.100.100.125.4.50M.C.256.S.EX.D	96811150	-	96835614	96090111	
S1.100.100.125.4.50M.H.256.S.EX.D	96811151	96830549	-	-	-
S1.100.125.75.4.50L.S.226.S.EX.D	96811122	-	-	96090114	
S1.100.125.75.4.50L.C.226.S.EX.D	96811123	-	96835614	96090114	
S1.100.125.75.4.50L.H.226.S.EX.D	96811124	96830549	-	-	-
S1.100.125.100.4.50L.S.243.S.EX.D	96811134	-	-	96090114	
S1.100.125.100.4.50L.C.243.S.EX.D	96811135	-	96835614	96090114	
S1.100.125.100.4.50L.H.243.S.EX.D	96811136	96830549	-	-	-
S1.100.125.125.4.50L.S.267.S.EX.D	96811146	-	-	96090114	
S1.100.125.125.4.50L.C.267.S.EX.D	96811147	-	96835614	96090114	
S1.100.125.125.4.50L.H.267.S.EX.D	96811148	96830549	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

Stainless steel impeller, pump- and motor housing, 3 x 400/690 V

Pump type	Pump	Accessories			
		To be ordered separately			
		** Horizontal base stand	Vertical base stand	Auto-coupling system	* Ring stand for portable use
SV.80.80.74.2.50H.S.175.R.EX.D	96811204	-	-	96090109	
SV.80.80.74.2.50H.C.179.R.EX.D	96811205	-	96090101	96090109	
SV.80.80.74.2.50H.H.179.R.EX.D	96811206	96830544	-	-	-
SV.80.80.94.2.50H.S.191.R.EX.D	96811207	-	-	96090109	
SV.80.80.120.2.50H.S.201.R.EX.D	96811208	-	-	96090109	
SV.80.80.120.2.50H.C.198.R.EX.D	96811209	-	96090101	96090109	
SV.80.80.120.2.50H.H.198.R.EX.D	96811210	96830544	-	-	-
S1.80.100.55.4.50H.S.212.R.EX.D	96811162	-	-	96090111	
S1.80.100.55.4.50H.C.212.R.EX.D	96811163	-	96090101	96090111	
S1.80.100.55.4.50H.H.212.R.EX.D	96811164	96830544	-	-	-
S1.80.100.75.4.50S.S.275.R.EX.D	96811177	-	-	96090111	
S1.80.100.75.4.50S.C.275.R.EX.D	96811178	-	96090101	96090111	
S1.80.100.75.4.50S.H.275.R.EX.D	96811179	96830544	-	-	-
S1.80.100.75.4.50H.S.239.R.EX.D	96811171	-	-	96090111	
S1.80.100.75.4.50H.C.239.R.EX.D	96811172	-	96090101	96090111	
S1.80.100.75.4.50H.H.239.R.EX.D	96811173	96830544	-	-	-
S1.80.100.100.4.50H.S.260.R.EX.D	96811183	-	-	96090111	
S1.80.100.100.4.50H.C.260.R.EX.D	96811184	-	96090101	96090111	
S1.80.100.100.4.50H.H.260.R.EX.D	96811185	96830544	-	-	-
S1.80.100.125.4.50H.S.275.R.EX.D	96811195	-	-	96090111	
S1.80.100.125.4.50H.C.275.R.EX.D	96811196	-	96090101	96090111	
S1.80.100.125.4.50H.H.275.R.EX.D	96811197	96830544	-	-	-
S1.80.200.75.4.50E.S.198.R.EX.D	96811168	-	-	96090118	
S1.80.200.75.4.50E.C.198.R.EX.D	96811169	-	96090119	96090118	
S1.80.200.75.4.50E.H.198.R.EX.D	96811170	96830551	-	-	-
S1.80.200.100.4.50E.S.220.R.EX.D	96811180	-	-	96090118	
S1.80.200.100.4.50E.C.220.R.EX.D	96811181	-	96090119	96090118	
S1.80.200.100.4.50E.H.220.R.EX.D	96811182	96830551	-	-	-
S1.80.200.125.4.50E.S.244.R.EX.D	96811192	-	-	96090118	
S1.80.200.125.4.50E.C.244.R.EX.D	96811193	-	96090119	96090118	
S1.80.200.125.4.50E.H.244.R.EX.D	96811194	96830551	-	-	-
S1.100.100.55.4.50M.S.205.R.EX.D	96811159	-	-	96090111	
S1.100.100.55.4.50M.C.205.R.EX.D	96811160	-	96835614	96090111	
S1.100.100.55.4.50M.H.205.R.EX.D	96811161	96830549	-	-	-
S1.100.100.75.4.50M.S.221.R.EX.D	96811165	-	-	96090111	
S1.100.100.75.4.50M.C.221.R.EX.D	96811166	-	96835614	96090111	
S1.100.100.75.4.50M.H.221.R.EX.D	96811167	96830549	-	-	-
S1.100.100.100.4.50M.S.241.R.EX.D	96811189	-	-	96090111	
S1.100.100.100.4.50M.C.241.R.EX.D	96811190	-	96835614	96090111	
S1.100.100.100.4.50M.H.241.R.EX.D	96811191	96830549	-	-	-
S1.100.100.125.4.50M.S.256.R.EX.D	96811201	-	-	96090111	
S1.100.100.125.4.50M.C.256.R.EX.D	96811202	-	96835614	96090111	
S1.100.100.125.4.50M.H.256.R.EX.D	96811203	96830549	-	-	-
S1.100.125.75.4.50L.S.226.R.EX.D	96811174	-	-	96090114	
S1.100.125.75.4.50L.C.226.R.EX.D	96811175	-	96835614	96090114	
S1.100.125.75.4.50L.H.226.R.EX.D	96811176	96830549	-	-	-
S1.100.125.100.4.50L.S.243.R.EX.D	96811186	-	-	96090114	
S1.100.125.100.4.50L.C.243.R.EX.D	96811187	-	96835614	96090114	
S1.100.125.100.4.50L.H.243.R.EX.D	96811188	96830549	-	-	-
S1.100.125.125.4.50L.S.267.R.EX.D	96811198	-	-	96090114	
S1.100.125.125.4.50L.C.267.R.EX.D	96811199	-	96835614	96090114	
S1.100.125.125.4.50L.H.267.R.EX.D	96811200	96830549	-	-	-

* Without hose connection.

** The horizontal base stand is included in the pump product number.

List of variants

Motor		
Various cable lengths		15 m
		25 m
		50 m
EMC power cables	Screened power cables for variable speed drives	10 m
		15 m
		25 m
		50 m
Special motor		Insulation class H
		Special voltage
PTC thermistors in windings		
Special oil	Non-toxic Shell Ondina 917	
Motor protection		
PTC + moisture switch		FPV1
Klixon + moisture switch + WIO		FPV2a
PTC + moisture switch + WIO		FPV2b
Klixon + moisture switch + WIO + PT100 at lower bearing + PSV sensor		FPV3a
PTC + moisture switch + WIO + PT100 at lower bearing + PSV sensor		FPV3b
Materials		
Stainless steel lifting bracket	AISI 316	
Stainless steel shaft		
Tests		
Test at specified duty on standard impeller curve		
Trimmed impeller for specified duty test		
Additional test of entire QH curve (incl. report)	5-10 flows from pump performance curve	
Different test standard	Efficiency guaranteed by Grundfos	ISO 9906 grade 1 tolerances
		ISO 9906 grade 2 tolerances
Vibration test (incl. report)	According to Grundfos factory quality standard	
Performance test on dry test stand	Not yet available	
NPSHr test	Not yet available	
String test	Contact Grundfos	
Witness test	Contact Grundfos	
Miscellaneous		
Special packaging	Contact Grundfos	
Special nameplate	Contact Grundfos	
Other variants	Contact Grundfos	

Sectional drawings, motors

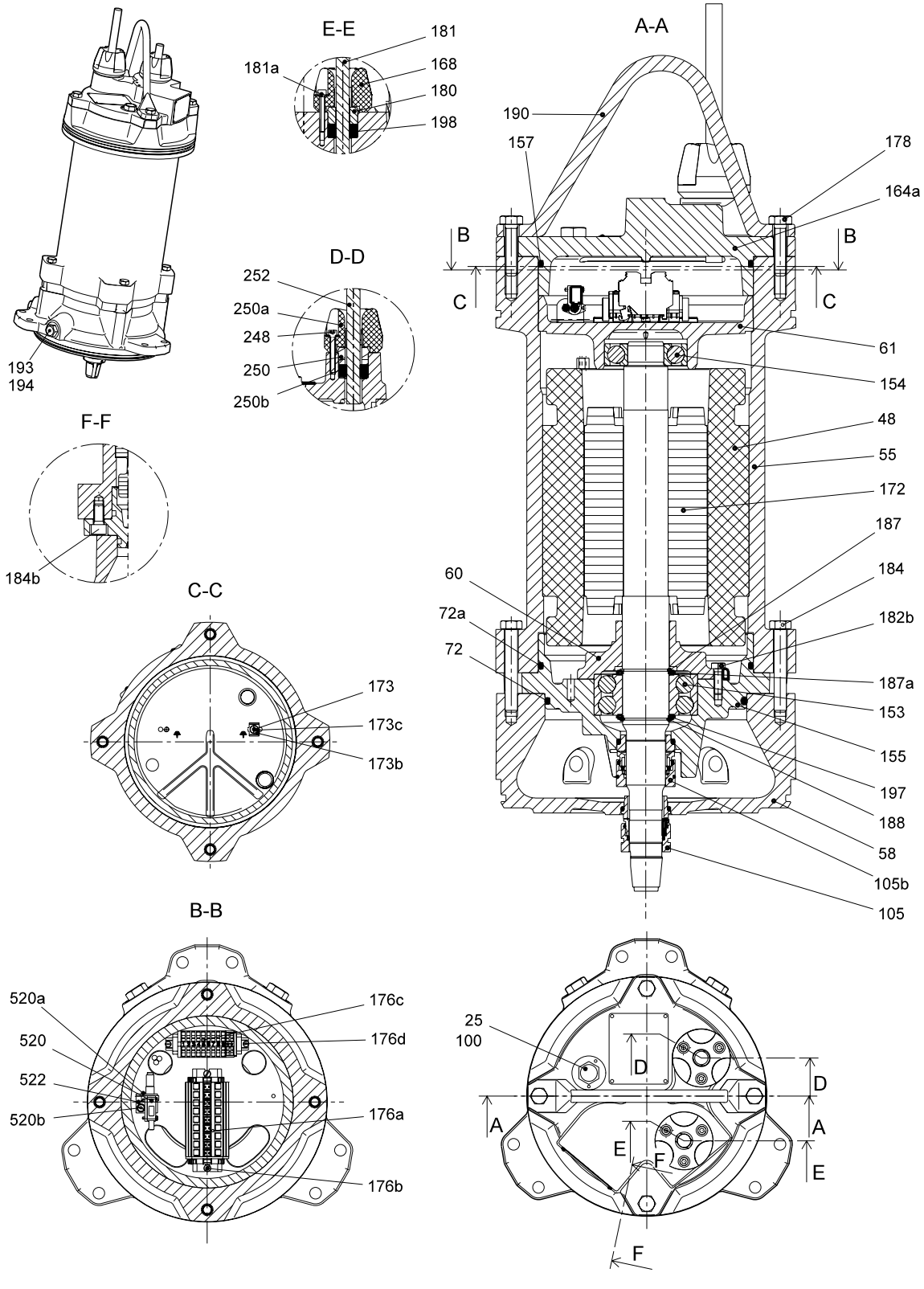


Fig. 4 Non-explosion-proof motor, without cooling jacket

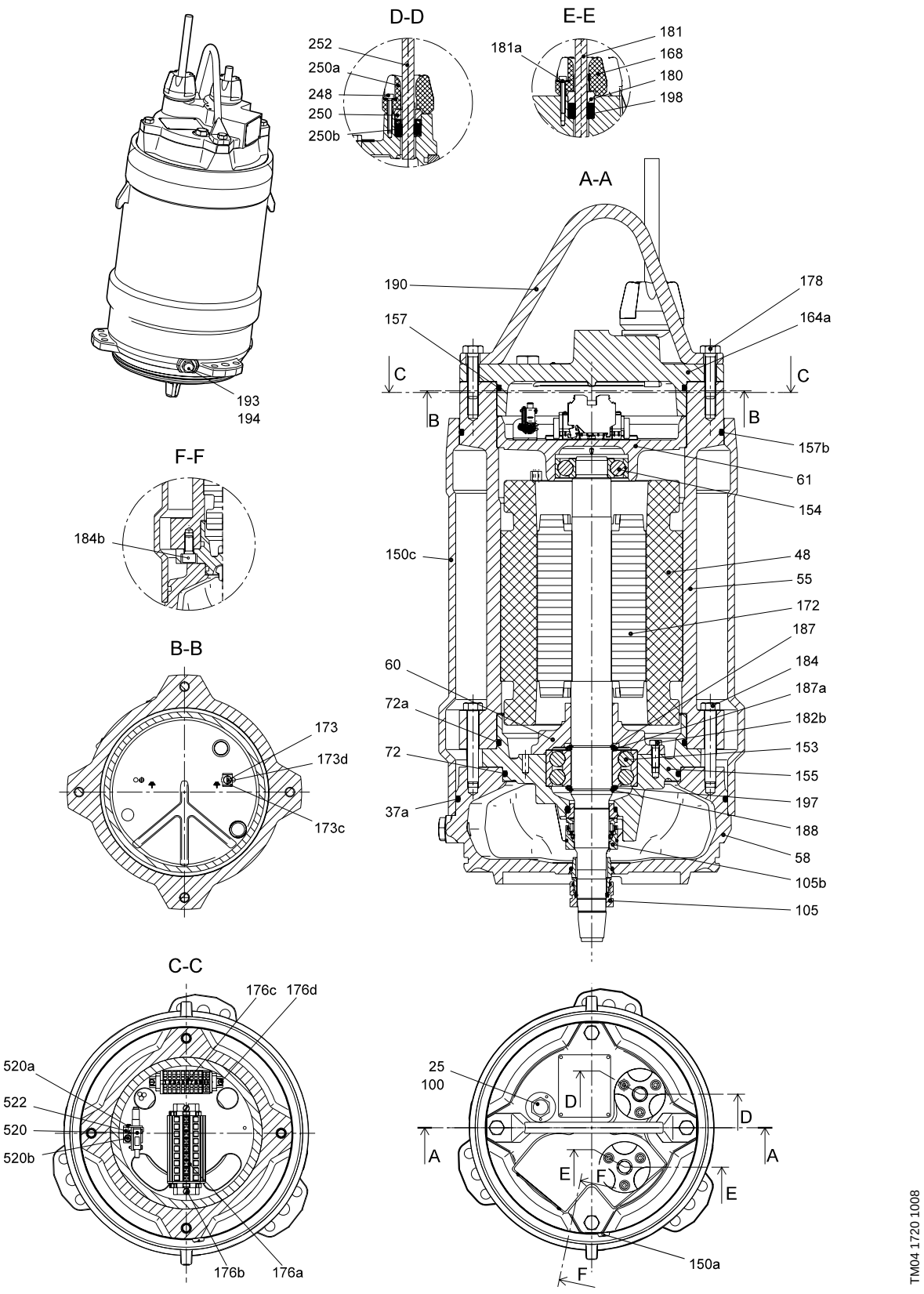


Fig. 5 Non-explosion-proof motor, with cooling jacket

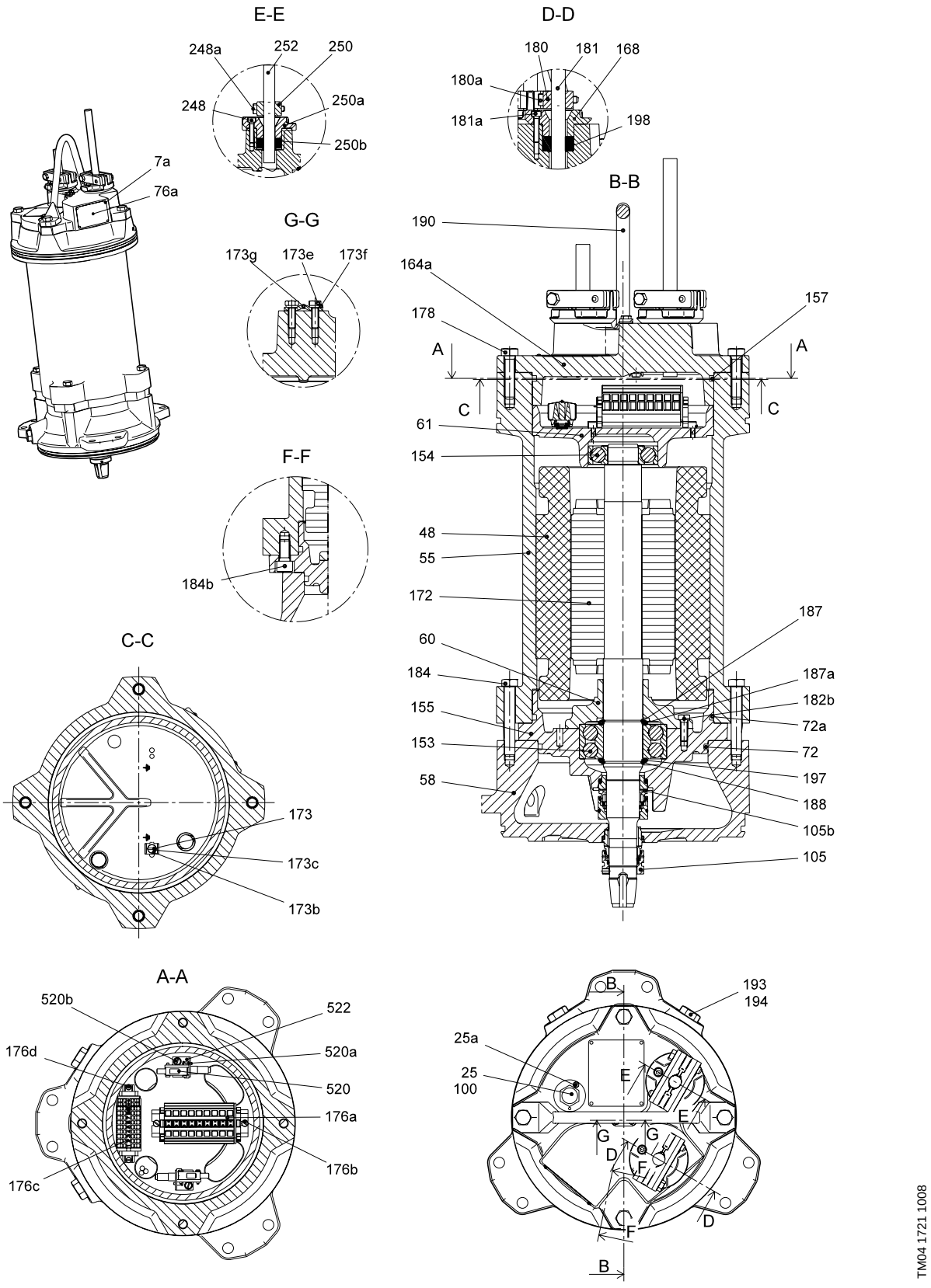


Fig. 6 Explosion-proof motor, without cooling jacket

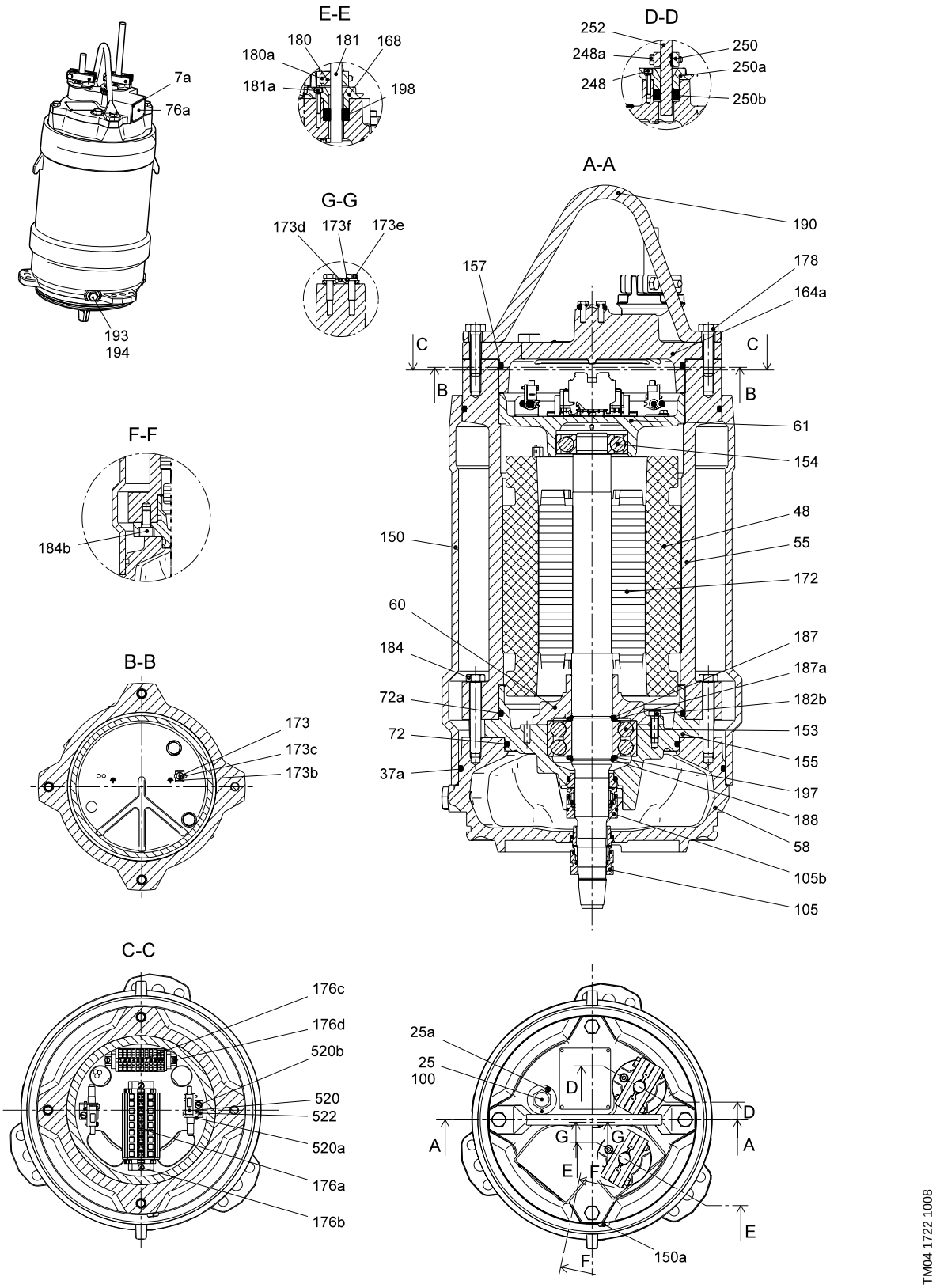


Fig. 7 Explosion-proof motor, with cooling jacket

Sectional drawings, pumps

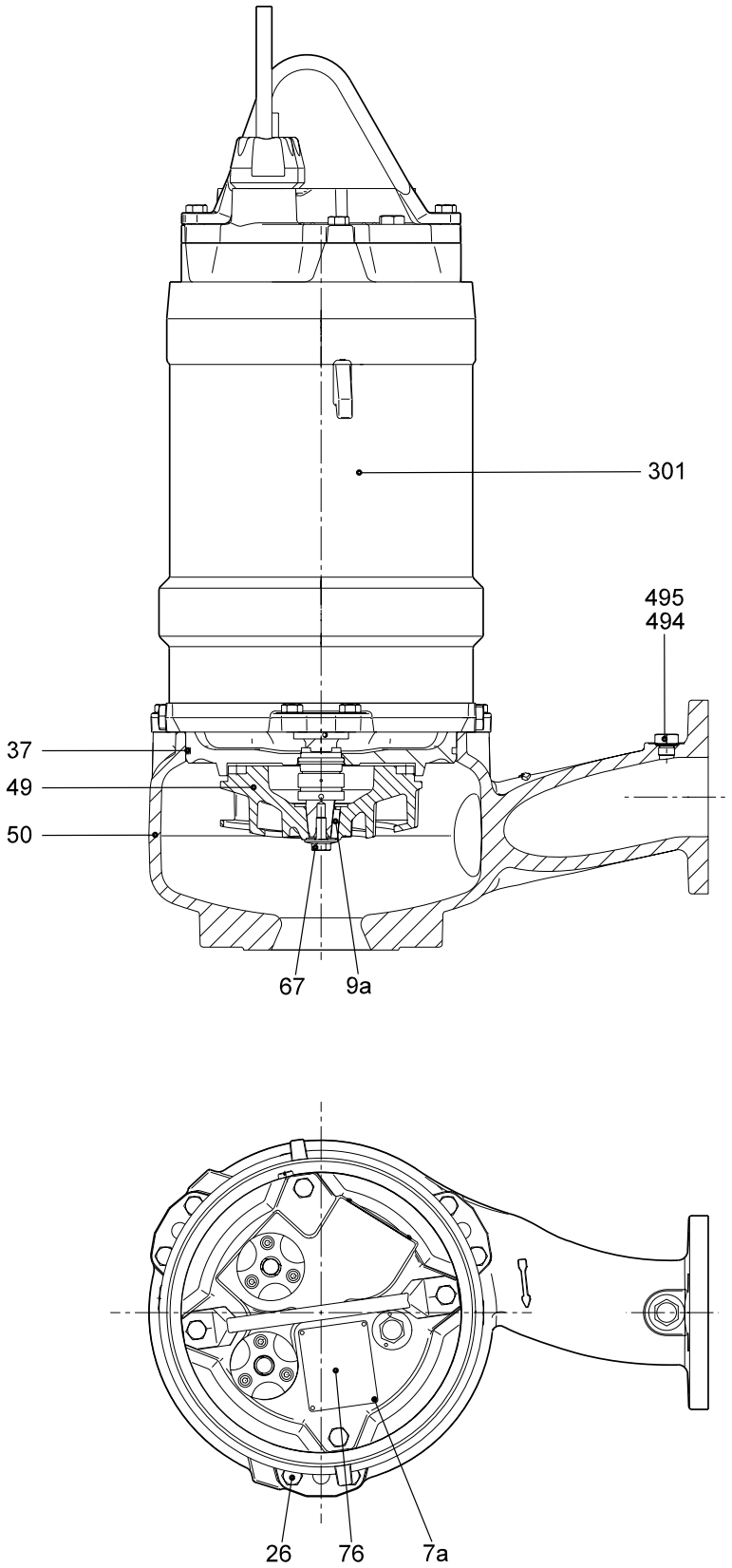


Fig. 9 SV pump

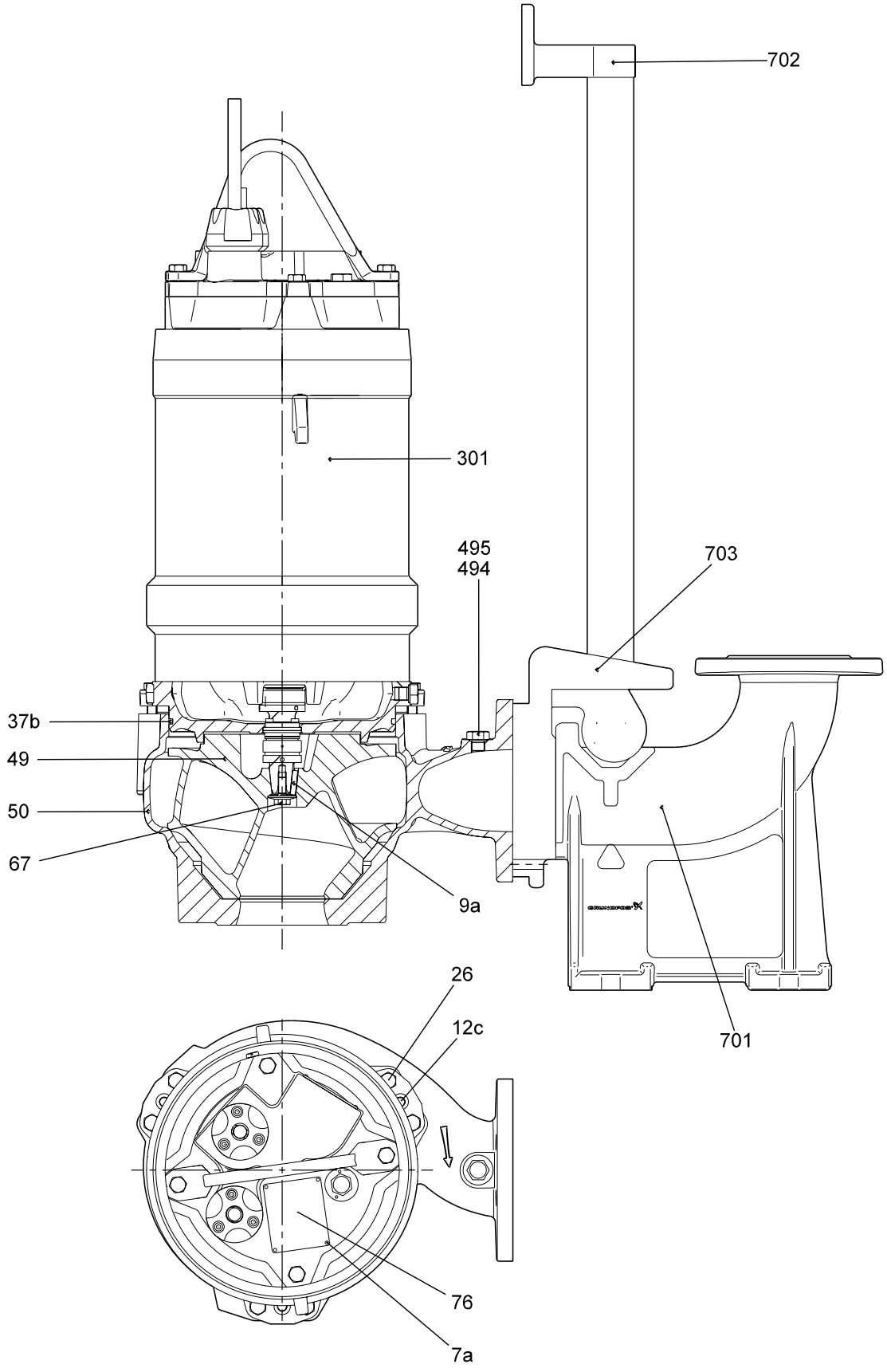


Fig. 10 Installation types S and C pumps on auto coupling

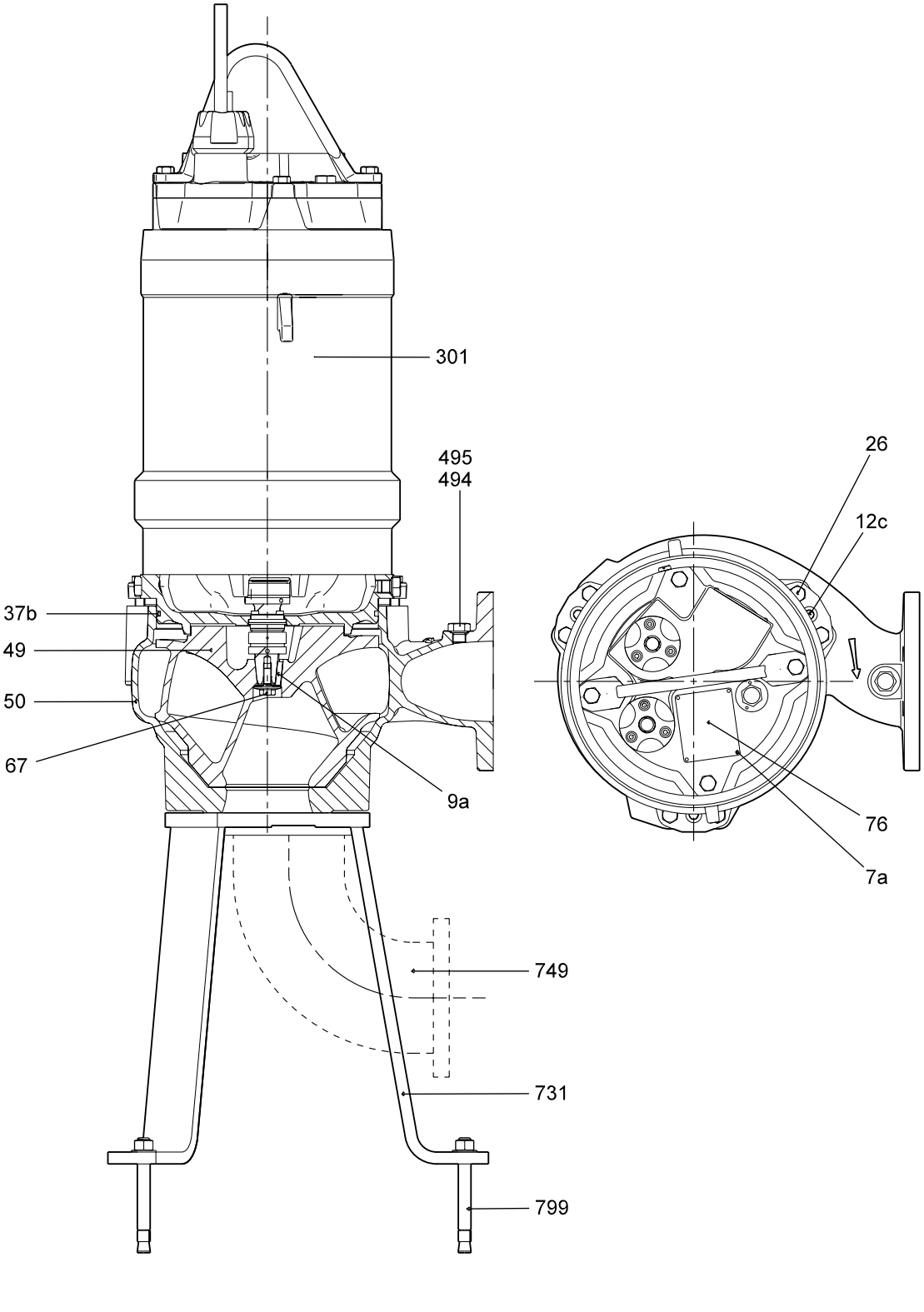
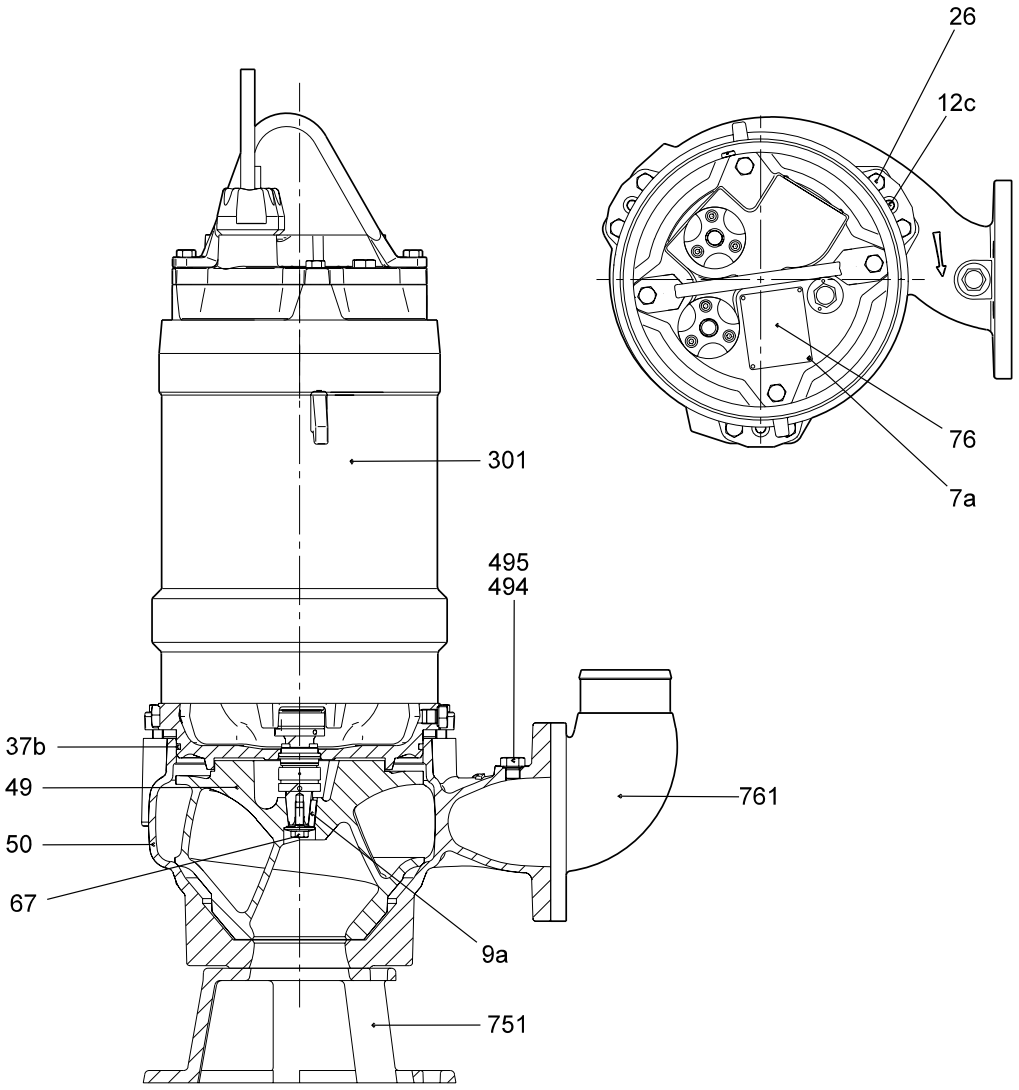


Fig. 11 Installation type D pump



TM04 1942 1408

Fig. 12 Installation types S and C pumps, free-standing installation

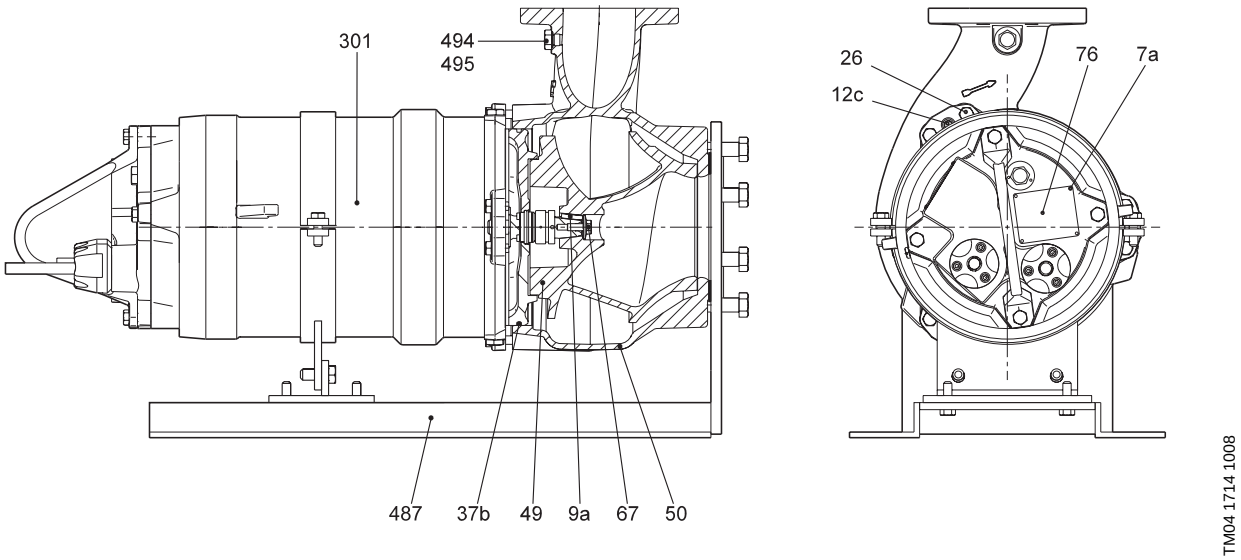


Fig. 13 S1 pump, installation type H

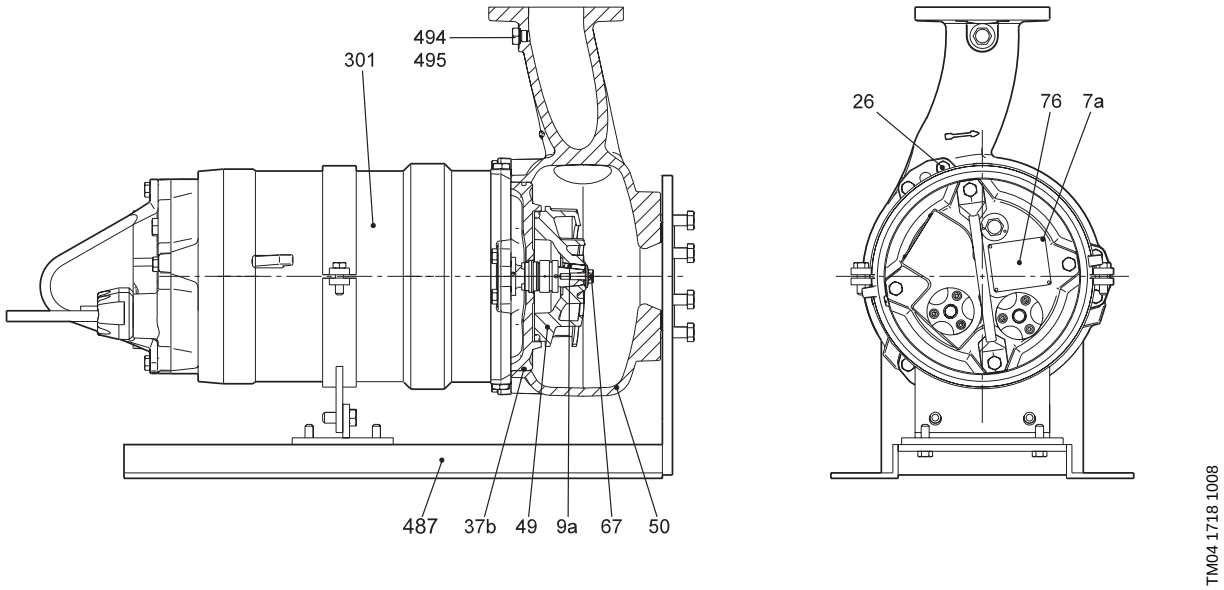


Fig. 14 SV pump, installation type H

Components and material specification

Motor

Pos.	Component	Material
7a	Rivet	Stainless steel (1.4436/316)
25a	Screw	Stainless steel (1.4436/316)
25	Pressure test plug	Stainless steel (1.4436/316)
48	Stator lamination	
**55	Stator housing	Cast iron (EN-JL 1040/A48 30)
58	Seal housing	Cast iron
60	Bearing bracket cover	Cast iron
61c	Upper bearing bracket	Cast iron
72a	O-ring	NBR rubber
72	O-ring	NBR rubber
76a	Approval plate	
100	O-ring	NBR rubber
105b	Mechanical seal	SiC/SiC or SiC/carbon
105	Mechanical seal	SiC/SiC or SiC/carbon
150c	Cooling jacket	Galvanized steel
153	Ball bearing	Stainless steel
154	Ball bearing	Stainless steel
**155	Lower bearing bracket	Cast iron
157b	O-ring	NBR rubber
157	O-ring	NBR rubber
**164a	Motor top cover	Cast iron
*168	Cable entry	PA or cast iron
172	Shaft with rotor	Stainless steel (1.4462/329)
173b	Earth terminal	
173c	Washer	Stainless steel (1.4436/316)
173e	Screw	Stainless steel (1.4436/316)
173f	Spring washer	Stainless steel (1.4436/316)
173g	Earth connector	
173	Screw	Stainless steel (1.4436/316)
176a	Terminal block	
176b	Screw	Stainless steel (1.4436/316)
176c	Terminal block	
176d	Terminal block	
178	Screw	Stainless steel (1.4436/316)
180	Cable clamp	PA or cast iron
181a	Screw	Stainless steel (1.4436/316)
181	Cable	ATON
182b	Hexagon socket head cap screw	Stainless steel (1.4436/316)
184b	Screw	Stainless steel (1.4436/316)
184	Screw	Stainless steel (1.4436/316)
187a	Washer	Stainless steel (1.4436/316)
187	Circlip	
188	Circlip	
190	Lifting bracket	Stainless steel (1.4408/316)
193	Plug	Stainless steel (1.4408/316)
194	O-ring	NBR rubber
197	Washer	Stainless steel (1.4436/316)
198	Rubber seal	
248	Screw	Stainless steel (1.4436/316)
250a	Cable entry	PA or cast iron
250b	Rubber seal	
250	Cable clamp	PA or cast iron
252	Cable	ATON
520a	Screw	Stainless steel (1.4436/316)
520b	Nut	Stainless steel (1.4436/316)
*520	Moisture switch	
522	Holder	

Pump

Pos.	Component	Material
7a	Rivet	
9a	Key (for keyway)	Stainless steel (1.4436/316)
12c	Adjusting screw	Stainless steel (1.4436/316)
26	Screw	Stainless steel (1.4436/316)
37	O-ring	NBR rubber
37b	O-ring	NBR rubber
**49	Impeller	Cast iron EN-JL 1050
**50	Volute casing	Cast iron EN-JS 1050
67	Impeller screw	Stainless steel (1.4436/316)
76	Nameplate	
301	Motor housing	
494	Plug	Stainless steel (1.4436/316)
495	O-ring	NBR rubber

Accessories

Pos.	Component	Material
**701	Auto-coupling base unit	Cast iron
**702	Guide rail bracket	Cast iron
**703	Guide claw	Cast iron
731	Base stand, vertical	Galvanized steel
749	Bend	Cast iron
751	Ring stand	Galvanized steel
**761	Hose connector	Cast iron or stainless steel
487	Base stand, horizontal	Galvanized steel
799	Anchor bolt	

* Ex versions have cast iron cable entry and two moisture switches.

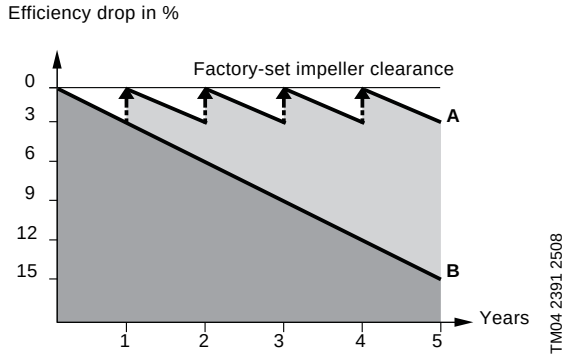
** Available of stainless steel (custom-built option).

Features

SmartTrim

On conventional pumps, maintaining factory-set impeller clearance is a time-consuming and costly task. The pumps need to be disconnected from the pipework and to be totally dismantled, and new parts need to be mounted in order to maintain full pumping efficiency. Not so with Grundfos SmartTrim!

All Grundfos heavy-duty channel-impeller pumps, whether for submerged or dry installation, are equipped with the unique SmartTrim impeller clearance adjustment system. This enables you to easily restore factory-set impeller clearance and maintain peak pumping efficiency. All you need to do is to tighten the adjustment screws on the exterior of the impeller housing. This can be done on site, quickly and easily, without dismantling the pump and without using special tools.



A: With Grundfos SmartTrim impeller clearance adjustment system

B: Without impeller clearance adjustment system

SmartSeal

The Grundfos SmartSeal auto-coupling gasket mounted on the pump discharge flange provides a completely leak-proof connection between the pump and the base unit of the auto-coupling system. This optimises the efficiency of the entire pumping system and keeps operating costs at a minimum.

Ball bearings

The bearings are greased for life.

Main bearings: Double-row angular contact ball bearing.

Support bearings: Single-row deep-groove ball bearing.

Shaft seal

The pumps have a shaft seal consisting of a primary and a secondary shaft seal.

The material combination of the primary shaft seal of all pump types is silicon carbide/silicon carbide. For the secondary shaft seal, the mateial combination is silicon carbide/carbon.

The shaft seals are placed in the oil chamber of the pump. The oil chamber provides reliable sealing between the pumped liquid and the motor.

The shaft seals have no springs or other parts in direct contact with the pumped liquid. This prevents rags and fibres from getting caught. The shaft seals are bidirectional, meaning that they can operate in either direction thus allowing for opposite rotation caused by back-flow of liquid through the pump.

Motor

The motor is a watertight, totally encapsulated motor with:

- insulation class F (155 °C)
- temperature rise class F (105 °C)
- enclosure class IP68.

For motor protection and sensors, see *Sensors* below.

Power cables

Standard cable

Cable type [mm^2]	Outer cable diameter [mm]		Bending radius
	min.	max.	[cm]
7 x 1.5	14.4	16.4	10
4 x 2.5	16.7	18.7	12
4 x 6	15.7	17.2	11

EMC cable

Cable type [mm^2]	Outer cable diameter [mm]		Bending radius
	min.	max.	[cm]
3 x 6	13.6	15.2	7.6

Control cable

Cable type [mm^2]	Outer cable diameter [mm]		Bending radius
	min.	max.	[cm]
7 x 1.5	14.4	16.0 - 16.4	10

The cables are 10 m long as standard. Other cable lengths are available on request. See *List of variants* on page 19.

The number and dimension of cables depend on the motor size.

Cable entry

Watertight PA or cast iron cable entry with soft shape and sealing rings to prevent damage of the cable or leaks.

Sensors

As standard the pump is equipped with:

- Three thermal switches (Klixon), one in each phase.
- One moisture switch in a terminal block.

Customised sensor options

1. WIO (water-in-oil) sensor
   The WIO sensor measures the water content in the oil and converts the value into an analogue current signal. The two sensor conductors are for power supply as well as for carrying the signal to the measuring device or controller. The sensor measures the water content from 0 to 20 %. It also sends a signal if the water content is outside the normal range (warning), or if there is air in the oil chamber (alarm). The sensor is fitted in a stainless steel tube for mechanical protection.
   The WIO sensor is connected to the Grundfos IO 111 module.
2. PVS 3 (pump vibration sensor)
   The vibration sensor monitors the vibration level of the pump. A change in the vibration level indicates an abnormal situation. The cause of this can be a clogged impeller, worn bearings, closed discharge valve, etc., indicating that service inspection should be carried out now in order to protect the pump or the pipe system from being damaged.
3. Bearing temperature sensor.

Testing

All pumps are tested before leaving the factory. The factory test report is based on ISO 9906, Annex A. Test reports can be ordered directly with the pump or can be ordered separately based on the pump serial number.

Other tests or third party inspection certificates are available on request. See *List of variants* on page 19.

Operating conditions

Pumps without cooling jacket in submerged installation:

- Continuous operation when pump is fully submerged to top of motor.
- Intermittent operation with max. 20 starts per hour when pump is submerged to middle of motor and with short periods of operation down to the top of the pump housing
  Note: Explosion proof pumps must always be fully submerged

Pumps with cooling jacket in submerged and dry installation:

- Continuous and intermittent operation with max. 20 starts per hour with water level down to the top of the pump housing.

Pumped liquids

pH value: 4-10

Liquid temperature: 0 °C - +40 °C

When pumping liquids with a density and/or a kinematic viscosity higher than that of water, use motors with correspondingly higher outputs.

Sound pressure

The sound pressure level of the pump is lower than the limiting values stated in the EC Council directive 98/37/EC relating to machinery (the EC Machinery Directive).

Motor range

Shaft power[kW]	No. of poles
5.5	4
7.4	2
7.5	4
9.4	2
10	4
10.5	4
11.5	2
12	2
13	4

Explosion-proof pumps

Use explosion-proof pumps in potentially explosive environments. The explosion protection classification of the pumps is Ex c d IIB T3. The Ex d IIB T4 protection classification is available on request. Operation of the pump via a frequency converter requires temperature class T3. All installations must be approved by the local authorities.

Pump controllers

S pumps, range 50, can be controlled by the following LC and LCD pump controllers:

- LC 107, LCD 107 with level pickups
- LC 108, LCD 108 with float switches
- LC 110, LCD 110 with level electrodes.

LC controllers are for single-pump installations; LCD controllers are for two-pump installations.

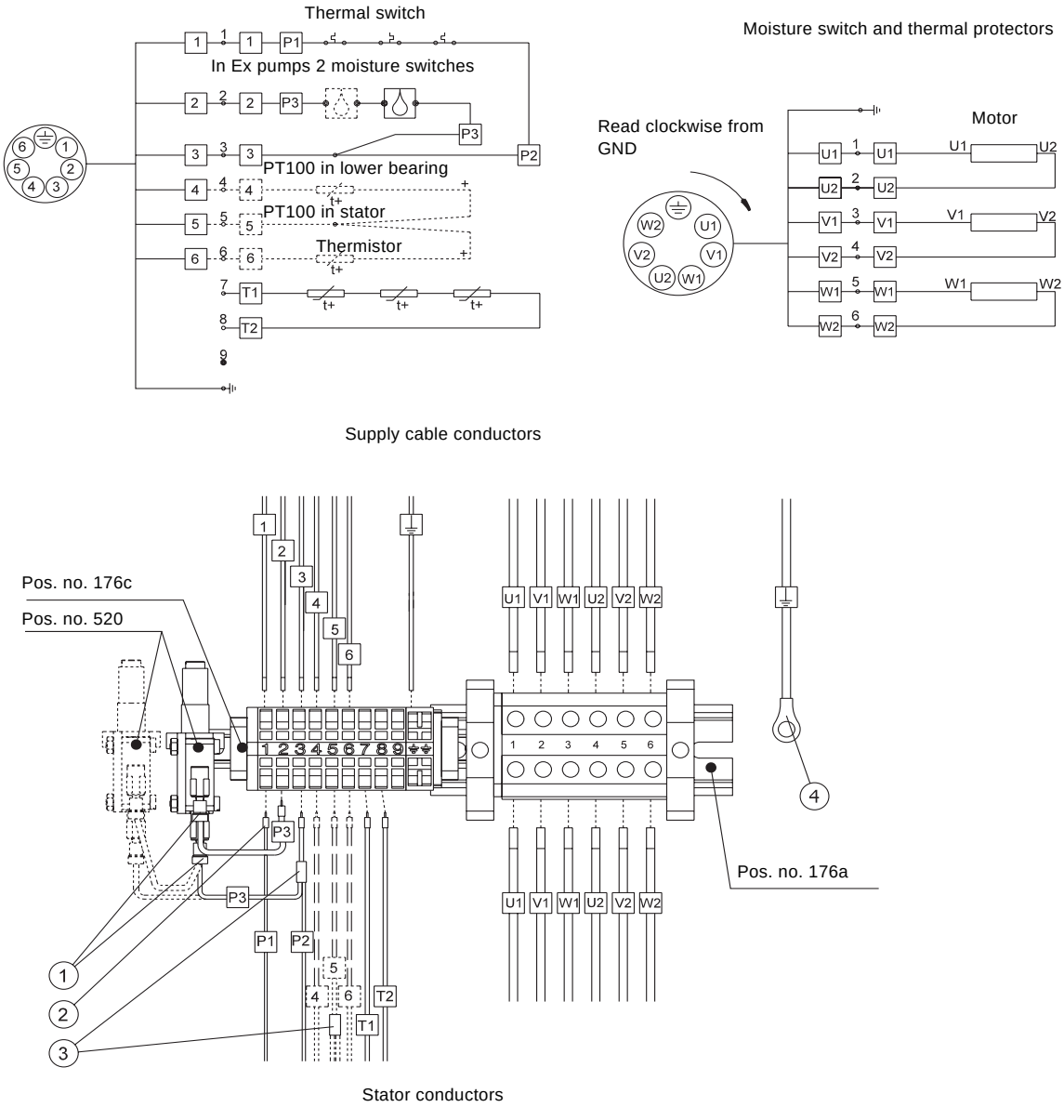
In the following description, “level switch” means level pickup, float switch or level electrode, depending on the pump controller selected.

The LC controller is fitted with two or three level switches: One for start and one for stop of pump. The third - optional - level switch, is for high-level alarm.

The LCD controller is fitted with three or four level switches: Two for start of the pumps and one for common stop. The fourth - optional - level switch, is for high-level alarm.

For further settings, see the installation and operating instructions for the pump controller selected.

Wiring diagrams

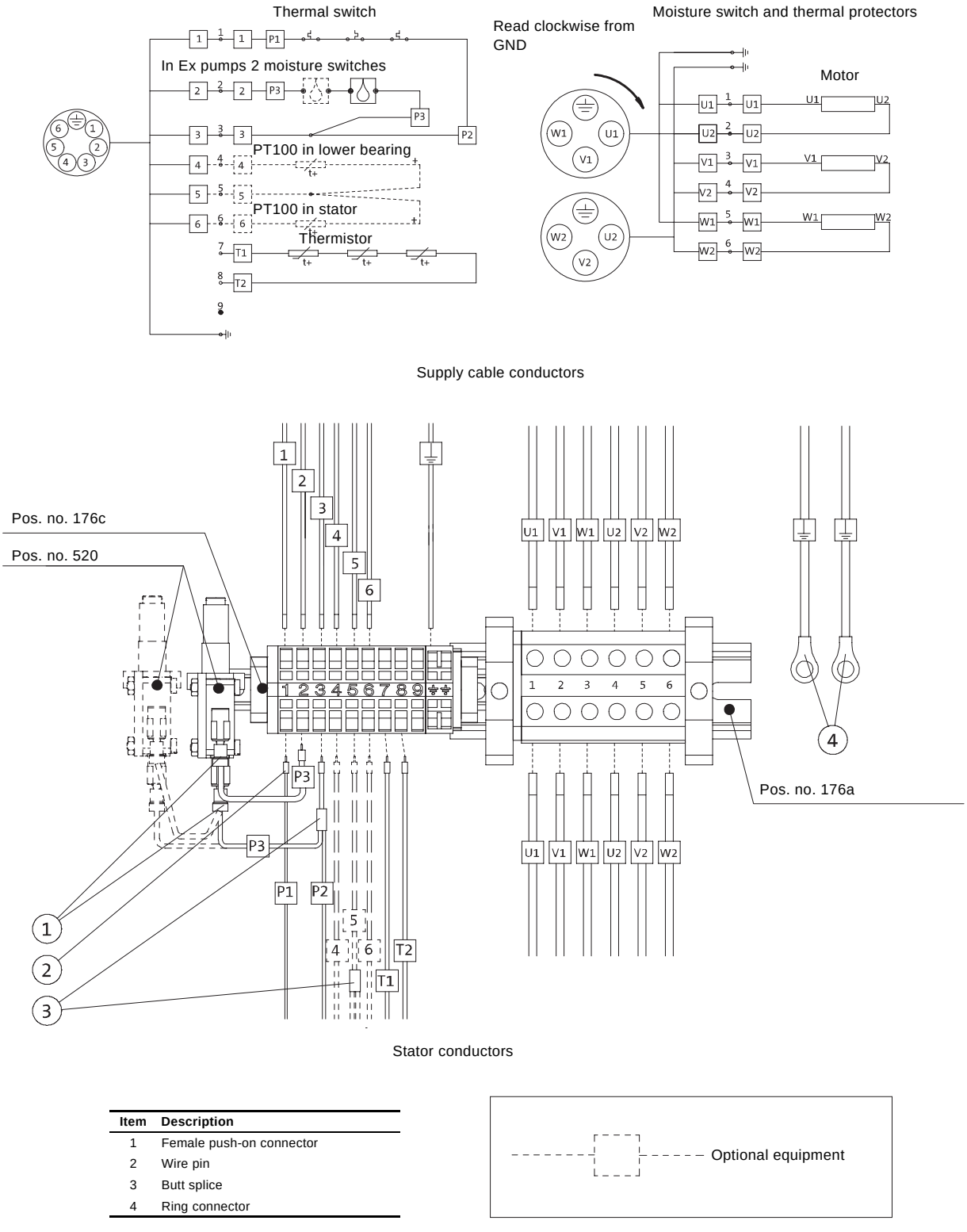


Item	Description
1	Female push-on connector
2	Wire pin
3	Butt splice
4	Ring connector

Optional equipment

TM043729 5008

Fig. 15 Wiring diagrams, pumps with one power cable



Item	Description
1	Female push-on connector
2	Wire pin
3	Butt splice
4	Ring connector

Fig. 16 Wiring diagrams, pumps with two power cables

Curve charts and technical data

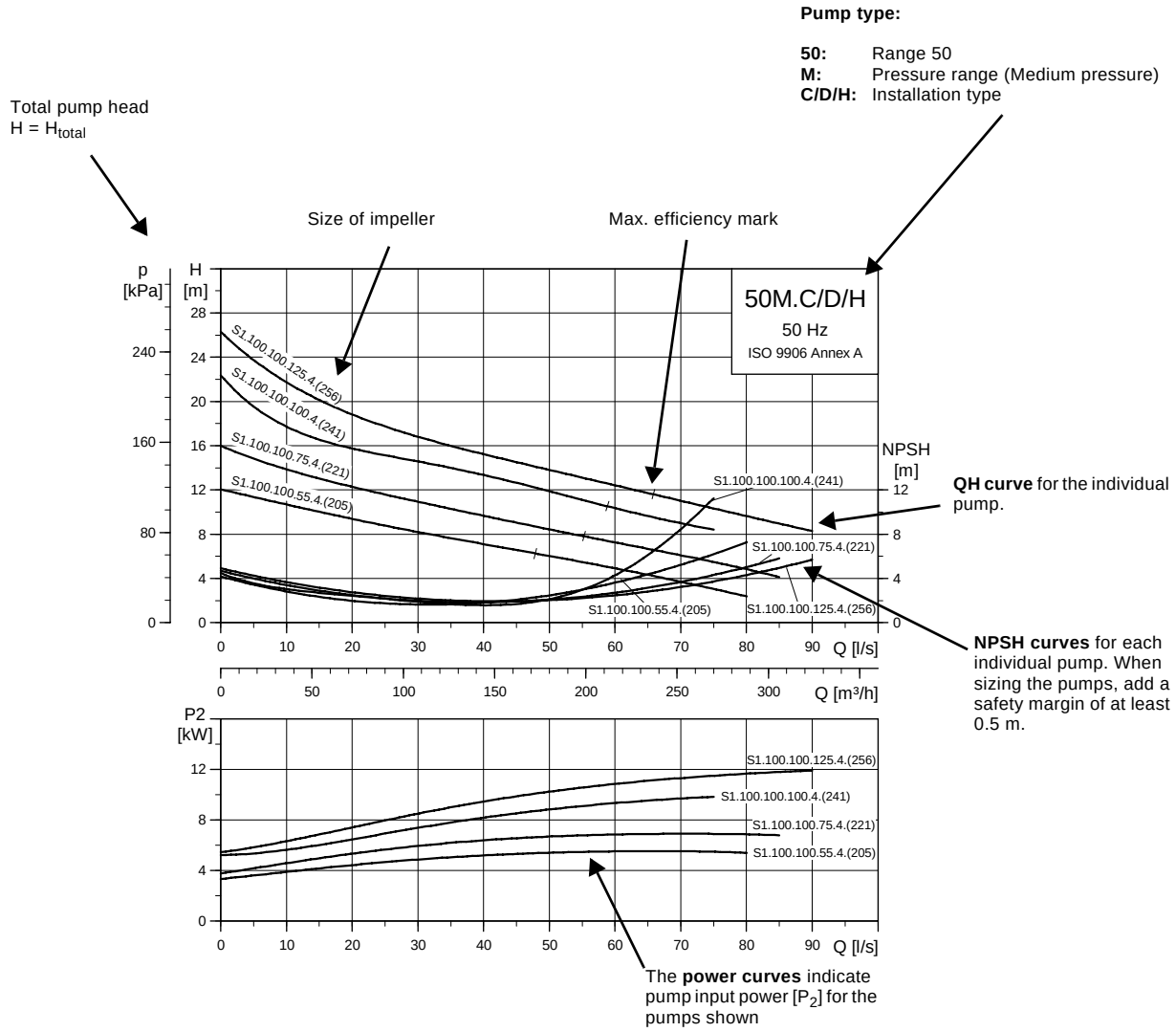
The following many pages are divided into sections:

Pages 36 and 37	A brief explanation of how to read the curve charts, the curve conditions, etc.

Performance curves and technical data:

Page 38	Pumps with SuperVortex impeller
Page 42	Extra-low pressure
Page 46	Low pressure
Page 50	Medium pressure
Page 54	High pressure
Page 58	Super-high pressure

How to read the curve charts



Curve conditions

The guidelines below apply to the curves shown in the performance charts on page 38 to page 60.

- Tolerances according to: ISO 9906, Annex A.
- The curves show pump performance with different impeller diameters at rated speed.
- The **bold** part of the curves show the **recommended** operating range.
- The curves apply to the pumping of airless water at a temperature of +20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- **ETA:** The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- **NPSH:** The curves show average values measured under the same conditions as the performance curves.
  When dimensioning the pump, add a safety margin of at least 0.5 m.
- In case of other densities than 1000 kg/m^3, the discharge pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m^3, motors with correspondingly higher outputs must be used.

Calculation of total head

The total pump head consists of the height difference between the measuring points + the differential head + the dynamic head.

$$H_{total} = H_{geo} + H_{stat} + H_{dyn}$$

H_{geo}: Height difference between measuring points.

H_{stat}: Differential head between suction and the discharge side of the pump.

H_{dyn}: Calculated values based on the velocity of the pumped liquid on the suction and the discharge side of the pump.

Performance tests

The requested duty point for every pump is tested according to ISO 9906, Annex A, and without certification.

In case of pumps ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at a duty point which is 2/3 of the maximum flow of the published performance curve which is related to the ordered impeller diameter (according to ISO 9906, Annex A).

If the customer requires either more points on the curve to be checked or certain minimum performances or certificates, individual measurements must be made, and a certificate can be ordered.

Certificates

Certificates have to be confirmed for every order and are available on request as follows:

- Certificate of compliance with the order (EN 10204 - 2.1)
- Pump test sheet.

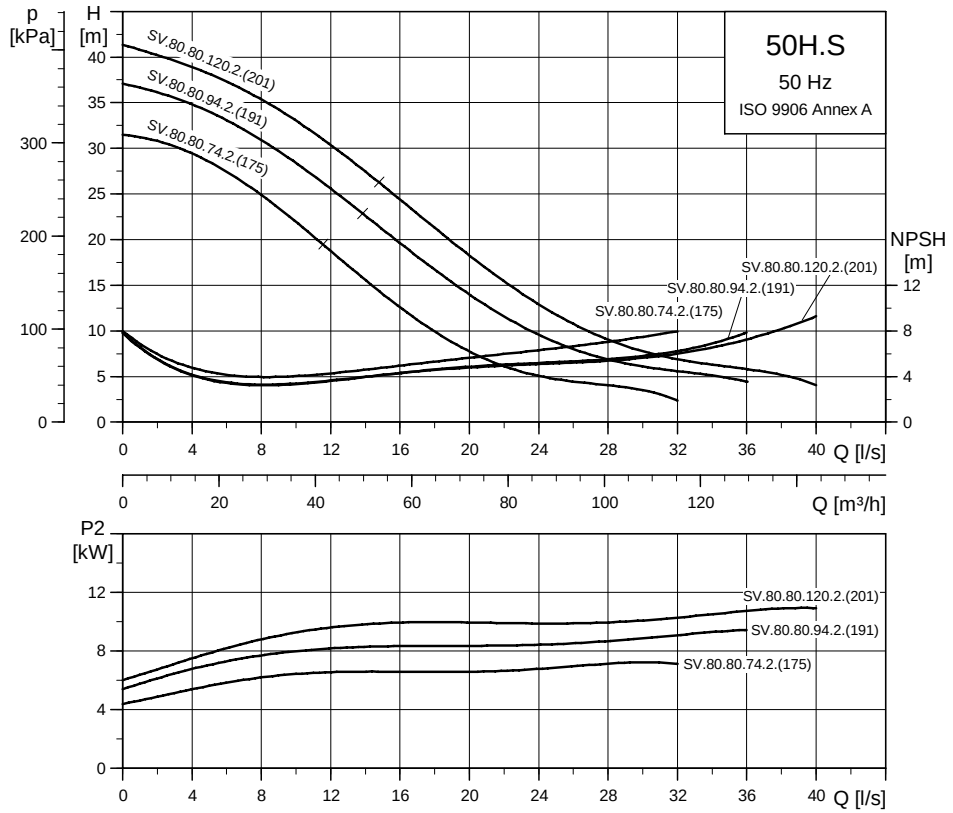
Witness test

When the pumps are being tested or are tested with a certification it is possible for the customer to witness the testing procedure according to ISO 9906.

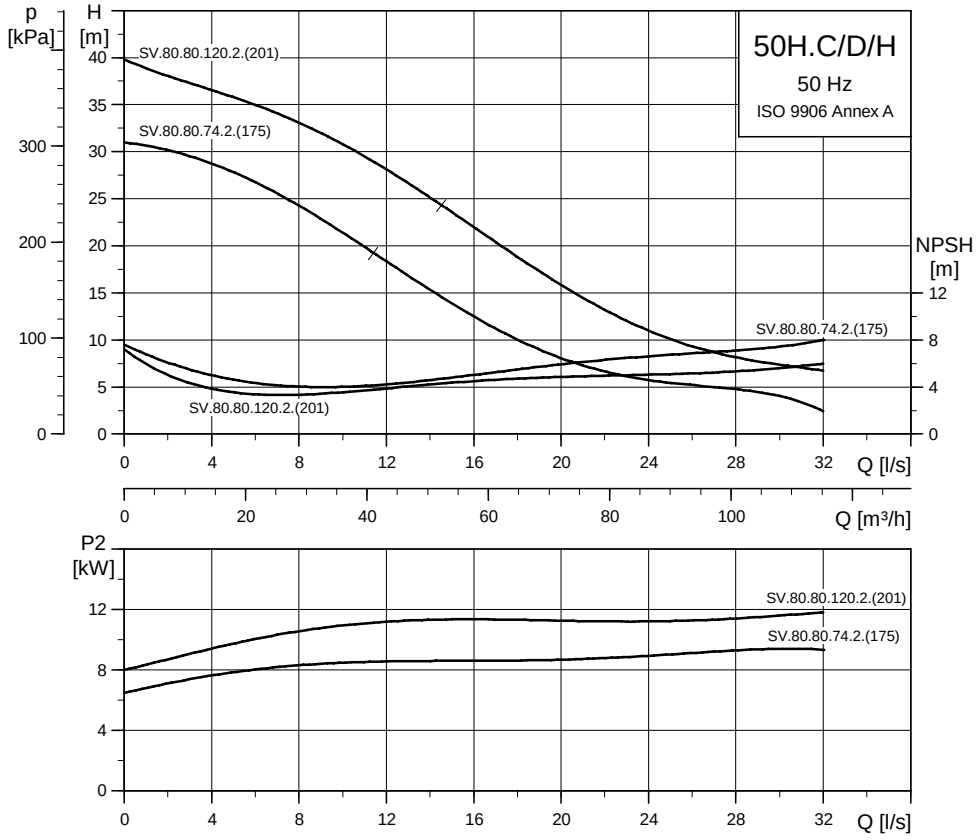
The witness test is not a certificate and will not result in a written statement from Grundfos. The witness itself is the only guarantee that everything is carried out as prescribed in the testing procedure.

If the customer wants to witness test the pump performance, place this request on the order.

SuperVortex - 3 x 400/690 V



TM04 0636 0908



TM04 0637 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
SV.80.80.74.2.50H.S.175.G.N.D	S	935	578	178	400	356	158	DN 100	80	170	95113712
SV.80.80.74.2.50H.C.179.G.N.D	C	935	578	178	400	356	158	DN 100	80	190	95113713
SV.80.80.74.2.50H.H.179.G.N.D	H	935	578	178	400	356	158	DN 100	80	200	95113714
SV.80.80.94.2.50H.S.191.G.N.D	S	935	578	178	400	356	158	DN 100	80	170	95113715
SV.80.80.120.2.50H.S.201.G.N.D	S	935	578	178	400	356	158	DN 100	80	170	95113716
SV.80.80.120.2.50H.C.198.G.N.D	C	935	578	178	400	356	158	DN 100	80	190	95113717
SV.80.80.120.2.50H.H.198.G.N.D	H	935	578	178	400	356	158	DN 100	80	200	95113718

With 10 m cable

Electrical data

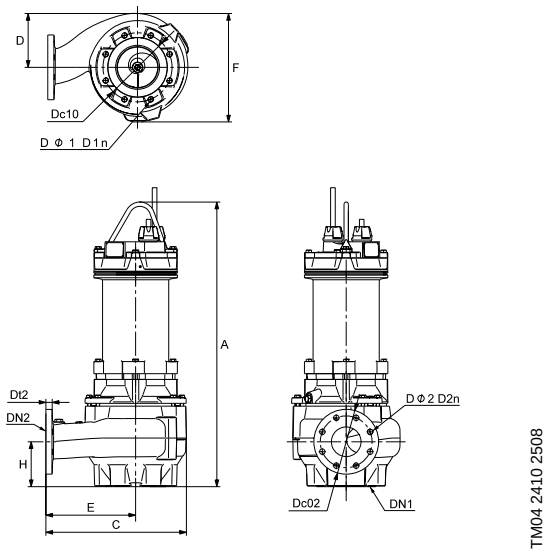
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SV.80.80.74.2.50H.S.175.G.N.D	9.4	7.4	2	2951	Y/D	17	208	67	75	79	0.64	0.74	0.81	0.062	142
SV.80.80.74.2.50H.C.179.G.N.D	12	9.4	2	2934	Y/D	20	208	72	78	81	0.70	0.80	0.86	0.064	142
SV.80.80.74.2.50H.H.179.G.N.D	12	9.4	2	2934	Y/D	20	208	72	78	81	0.70	0.80	0.86	0.064	142
SV.80.80.94.2.50H.S.191.G.N.D	12	9.4	2	2934	Y/D	20	208	72	78	81	0.70	0.80	0.86	0.0677	142
SV.80.80.120.2.50H.S.201.G.N.D	14	11.5	2	2911	Y/D	24	208	75	81	80	0.75	0.84	0.89	0.0692	142
SV.80.80.120.2.50H.C.198.G.N.D	15	12	2	2903	Y/D	25	208	76	81	79	0.76	0.85	0.89	0.0733	142
SV.80.80.120.2.50H.H.198.G.N.D	15	12	2	2903	Y/D	25	208	76	81	79	0.76	0.85	0.89	0.0733	142

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
SV.80.80.74.2.50H.S.175.G.N.D	175	80	10	20
SV.80.80.74.2.50H.C.179.G.N.D	179	80	10	20
SV.80.80.74.2.50H.H.179.G.N.D	179	80	10	20
SV.80.80.94.2.50H.S.191.G.N.D	191	80	10	20
SV.80.80.120.2.50H.S.201.G.N.D	201	80	10	20
SV.80.80.120.2.50H.C.198.G.N.D	198	80	10	20
SV.80.80.120.2.50H.H.198.G.N.D	198	80	10	20

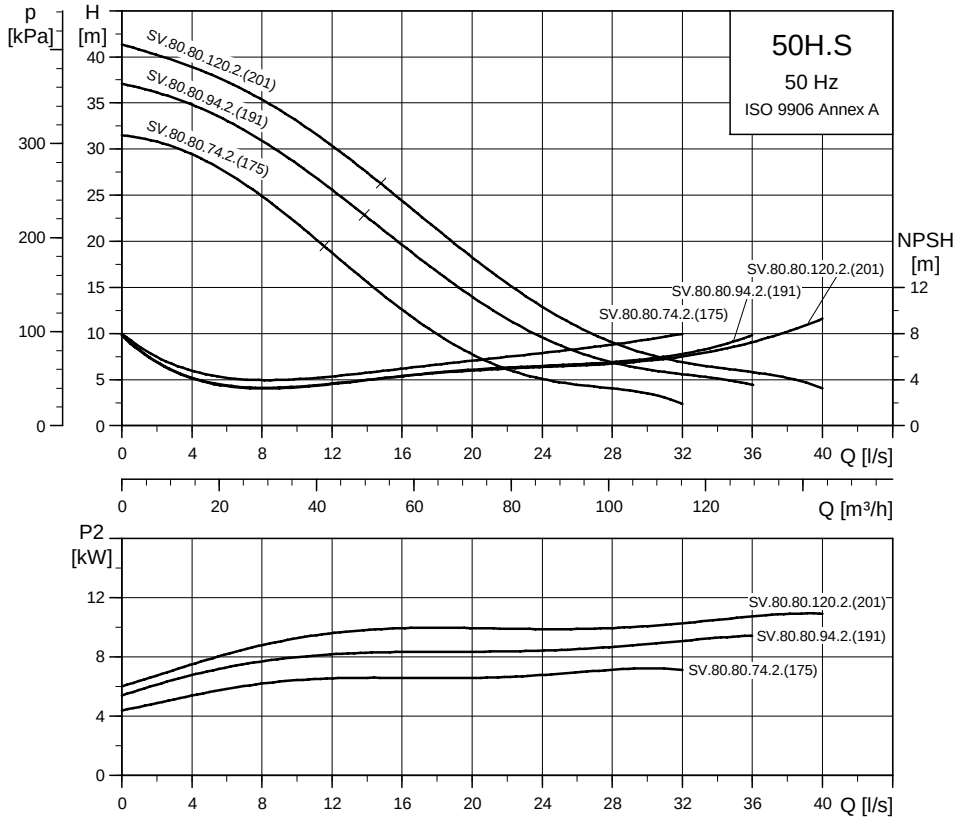
Dimensional sketches



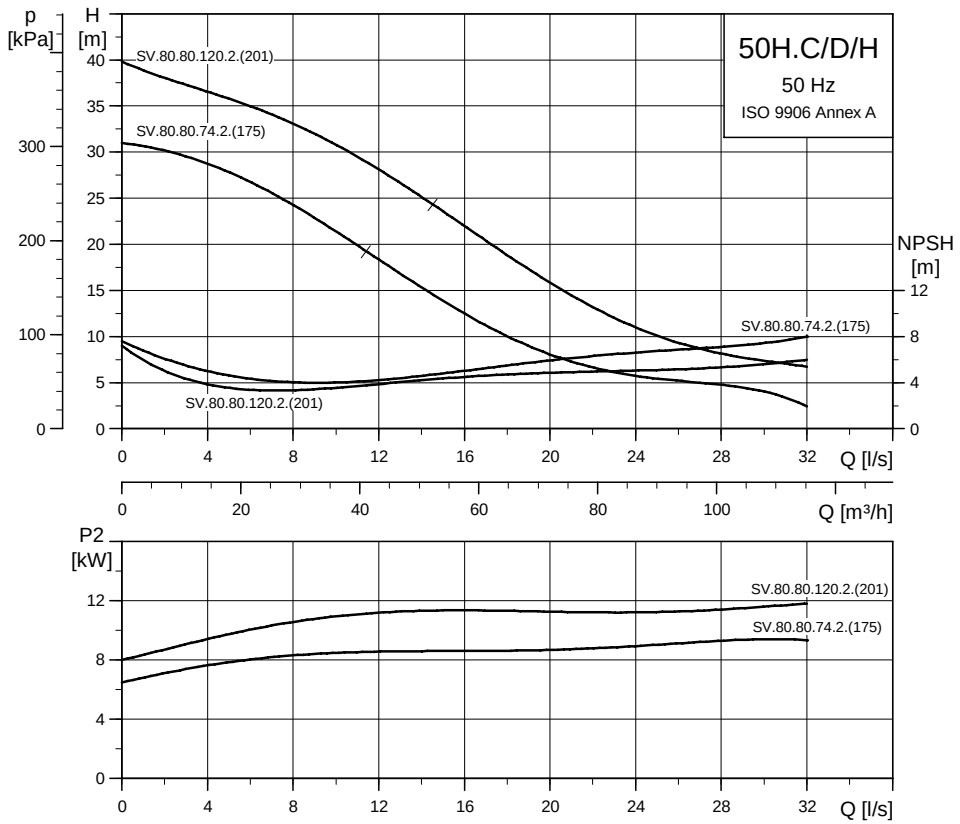
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

SuperVortex - 3 x 415 V



TM04 0636 0908



TM04 0637 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
SV.80.80.74.2.50H.S.175.G.N.D	S	935	578	178	400	356	158	DN 100	80	170	96776493
SV.80.80.74.2.50H.C.179.G.N.D	C	935	578	178	400	356	158	DN 100	80	190	96776494
SV.80.80.74.2.50H.H.179.G.N.D	H	935	578	178	400	356	158	DN 100	80	200	96776495
SV.80.80.94.2.50H.S.191.G.N.D	S	935	578	178	400	356	158	DN 100	80	170	96776496
SV.80.80.120.2.50H.S.201.G.N.D	S	935	578	178	400	356	158	DN 100	80	170	96776497
SV.80.80.120.2.50H.C.198.G.N.D	C	935	578	178	400	356	158	DN 100	80	190	96776498
SV.80.80.120.2.50H.H.198.G.N.D	H	935	578	178	400	356	158	DN 100	80	200	96776500

With 10 m cable

Electrical data

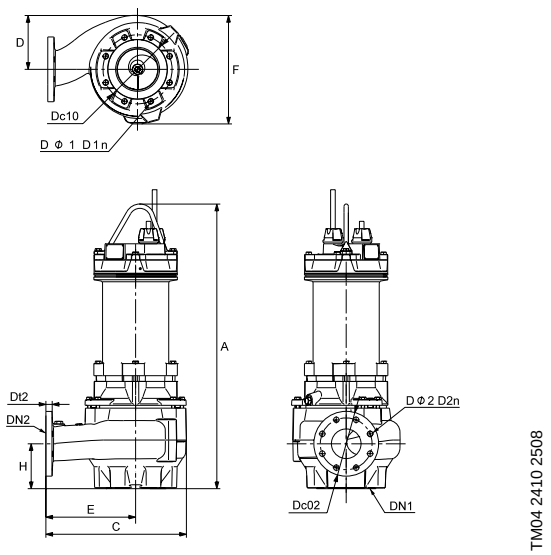
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
SV.80.80.74.2.50H.S.175.G.N.D	9.4	7.4	2	2951	Y/D	17	201	67	75	79	0.64	0.74	0.81	0.062	142
SV.80.80.74.2.50H.C.179.G.N.D	12	9.4	2	2934	Y/D	19	201	72	78	81	0.70	0.80	0.86	0.064	142
SV.80.80.74.2.50H.H.179.G.N.D	12	9.4	2	2934	Y/D	19	201	72	78	81	0.70	0.80	0.86	0.064	142
SV.80.80.94.2.50H.S.191.G.N.D	12	9.4	2	2934	Y/D	19	201	72	78	81	0.70	0.80	0.86	0.0677	142
SV.80.80.120.2.50H.S.201.G.N.D	14	11.5	2	2911	Y/D	23	201	75	81	80	0.75	0.84	0.89	0.0692	142
SV.80.80.120.2.50H.C.198.G.N.D	15	12	2	2903	Y/D	24	201	76	81	79	0.76	0.85	0.89	0.0733	142
SV.80.80.120.2.50H.H.198.G.N.D	15	12	2	2903	Y/D	24	201	76	81	79	0.76	0.85	0.89	0.0733	142

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
SV.80.80.74.2.50H.S.175.G.N.D	175	80	10	20
SV.80.80.74.2.50H.C.179.G.N.D	179	80	10	20
SV.80.80.74.2.50H.H.179.G.N.D	179	80	10	20
SV.80.80.94.2.50H.S.191.G.N.D	191	80	10	20
SV.80.80.120.2.50H.S.201.G.N.D	201	80	10	20
SV.80.80.120.2.50H.C.198.G.N.D	198	80	10	20
SV.80.80.120.2.50H.H.198.G.N.D	198	80	10	20

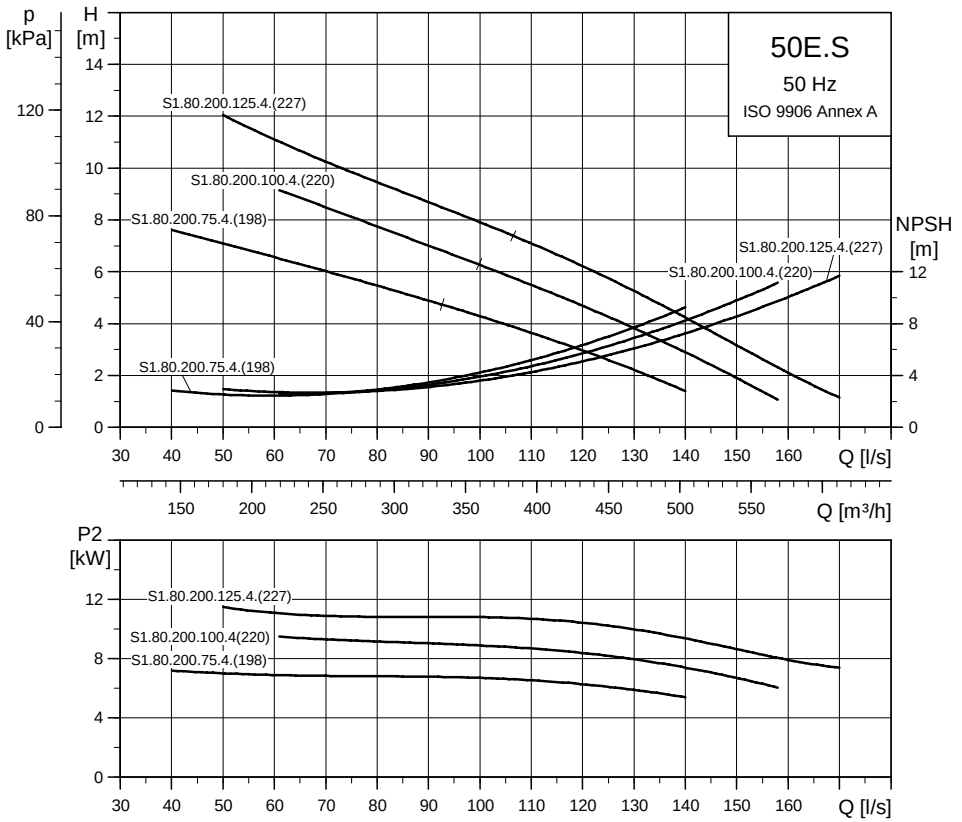
Dimensional sketches



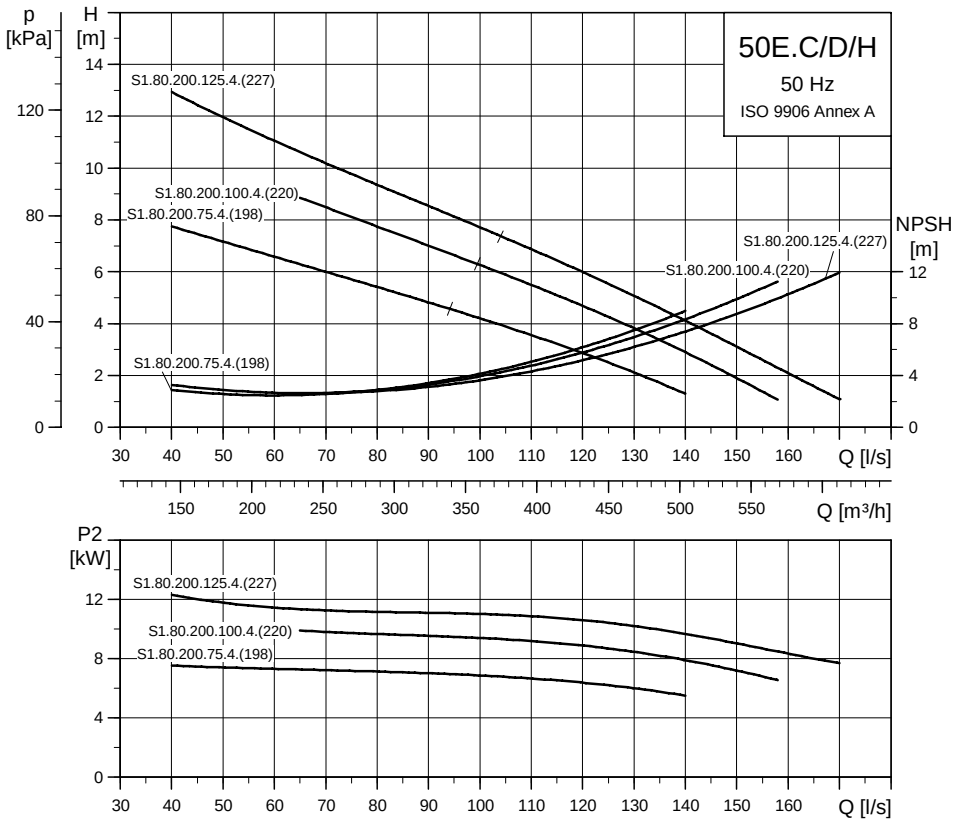
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Extra-low pressure - 3 x 400/690 V



TM04 0632 0908



TM04 0633 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.80.200.75.4.50E.S.198.G.N.D	S	1045	789	395	460	685	251	DN 200	200	170	95113676
S1.80.200.75.4.50E.C.198.G.N.D	C	1045	789	395	460	685	251	DN 200	200	190	95113677
S1.80.200.75.4.50E.H.198.G.N.D	H	1045	789	395	460	685	251	DN 200	200	200	95113678
S1.80.200.100.4.50E.S.220.G.N.D	S	1045	789	395	460	685	251	DN 200	200	350	95113688
S1.80.200.100.4.50E.C.220.G.N.D	C	1045	789	395	460	685	251	DN 200	200	390	95113689
S1.80.200.100.4.50E.H.220.G.N.D	H	1045	789	395	460	685	251	DN 200	200	350	95113690
S1.80.200.125.4.50E.S.244.G.N.D	S	1045	789	395	460	685	251	DN 200	200	350	95113700
S1.80.200.125.4.50E.C.244.G.N.D	C	1045	789	395	460	685	251	DN 200	200	390	95113701
S1.80.200.125.4.50E.H.244.G.N.D	H	1045	789	395	460	685	251	DN 200	200	350	95113702

With 10 m cable

Electrical data

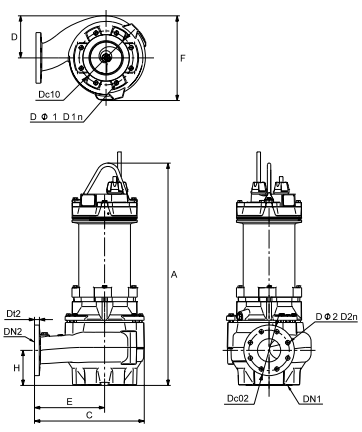
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
S1.80.200.75.4.50E.S.198.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.2227	156
S1.80.200.75.4.50E.C.198.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.2227	156
S1.80.200.75.4.50E.H.198.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.2227	156
S1.80.200.100.4.50E.S.220.G.N.D	12	10	4	1456	Y/D	22	207	79	83	84	0.60	0.72	0.80	0.2507	241
S1.80.200.100.4.50E.C.220.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.2507	241
S1.80.200.100.4.50E.H.220.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.2507	241
S1.80.200.125.4.50E.S.244.G.N.D	15	12.5	4	1441	Y/D	26	207	81	84	84	0.66	0.78	0.84	0.2735	241
S1.80.200.125.4.50E.C.244.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2735	241
S1.80.200.125.4.50E.H.244.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2735	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S1.80.200.75.4.50E.S.198.G.N.D	198	80	10	20
S1.80.200.75.4.50E.C.198.G.N.D	198	80	10	20
S1.80.200.75.4.50E.H.198.G.N.D	198	80	10	20
S1.80.200.100.4.50E.S.220.G.N.D	220	80	10	20
S1.80.200.100.4.50E.C.220.G.N.D	220	80	10	20
S1.80.200.100.4.50E.H.220.G.N.D	220	80	10	20
S1.80.200.125.4.50E.S.244.G.N.D	244	80	10	20
S1.80.200.125.4.50E.C.244.G.N.D	244	80	10	20
S1.80.200.125.4.50E.H.244.G.N.D	244	80	10	20

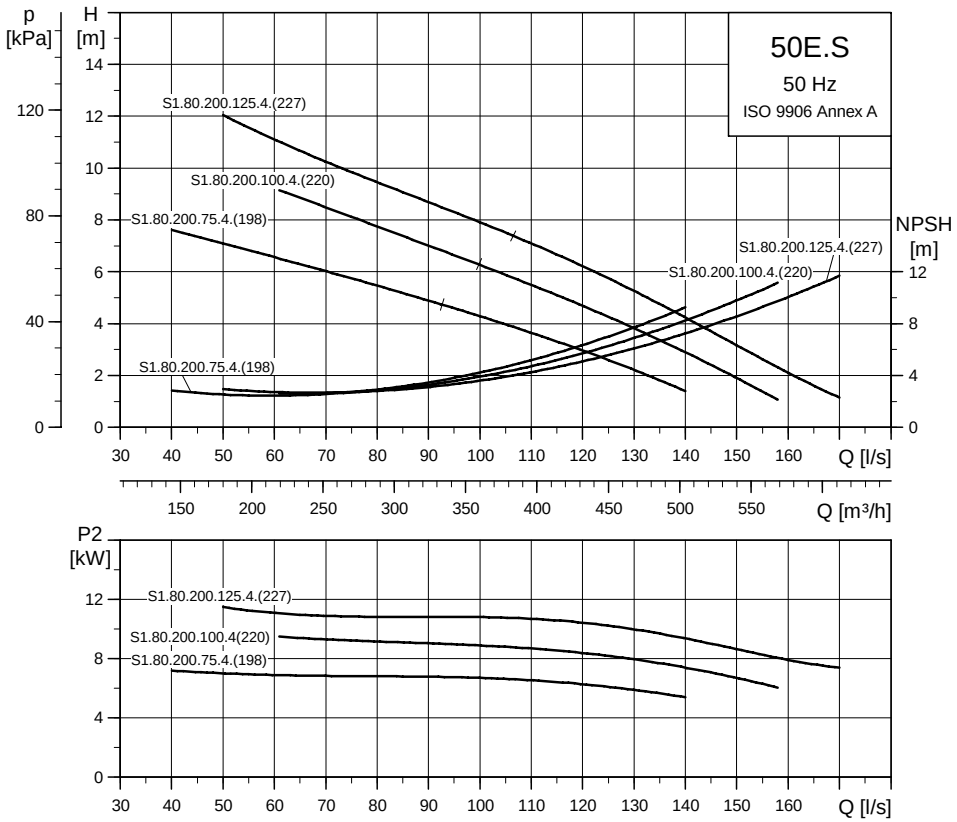
Dimensional sketches



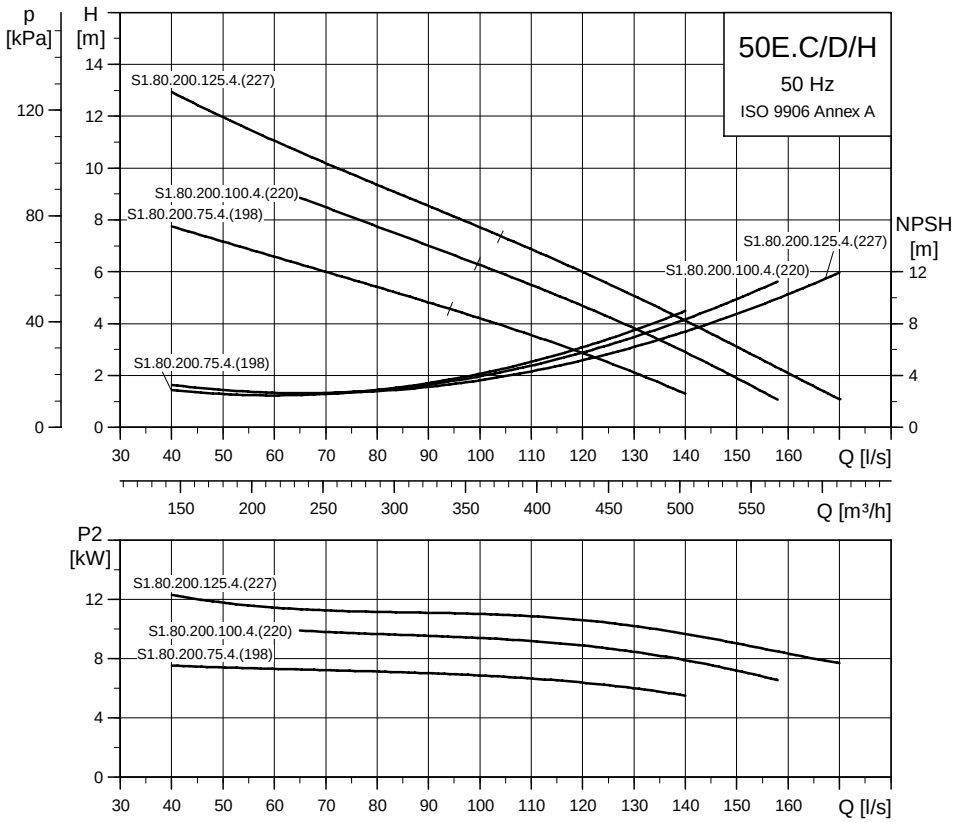
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Extra-low pressure - 3 x 415 V



TM04 0632 0908



TM04 0633 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.80.200.75.4.50E.C.198.G.N.D	C	1045	789	395	460	685	251	DN 200	200	190	96776450
S1.80.200.75.4.50E.H.198.G.N.D	H	1045	789	395	460	685	251	DN 200	200	200	96776452
S1.80.200.75.4.50E.S.198.G.N.D	S	1045	789	395	460	685	251	DN 200	200	100	96780602
S1.80.200.100.4.50E.S.220.G.N.D	S	1045	789	395	460	685	251	DN 200	200	350	96776469
S1.80.200.100.4.50E.C.220.G.N.D	C	1045	789	395	460	685	251	DN 200	200	390	96776470
S1.80.200.100.4.50E.H.220.G.N.D	H	1045	789	395	460	685	251	DN 200	200	350	96776471
S1.80.200.125.4.50E.S.244.G.N.D	S	1045	789	395	460	685	251	DN 200	200	350	96776481
S1.80.200.125.4.50E.C.244.G.N.D	C	1045	789	395	460	685	251	DN 200	200	390	96776482
S1.80.200.125.4.50E.H.244.G.N.D	H	1045	789	395	460	685	251	DN 200	200	350	96776483

With 10 m cable

Electrical data

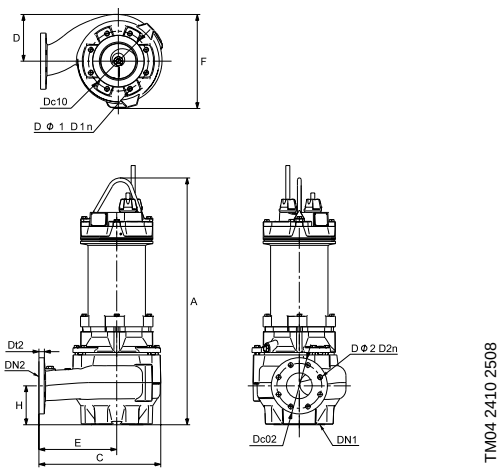
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia	Breakdown torque [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	[kgm^2]	M_{max} [Nm]
S1.80.200.75.4.50E.C.198.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.2227	156
S1.80.200.75.4.50E.H.198.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.2227	156
S1.80.200.75.4.50E.S.198.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.2227	156
S1.80.200.100.4.50E.S.220.G.N.D	12	10	4	1456	Y/D	21	199	79	83	84	0.60	0.72	0.80	0.2507	241
S1.80.200.100.4.50E.C.220.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.2507	241
S1.80.200.100.4.50E.H.220.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.2507	241
S1.80.200.125.4.50E.S.244.G.N.D	15	12.5	4	1441	Y/D	25	199	81	84	84	0.66	0.78	0.84	0.2735	241
S1.80.200.125.4.50E.C.244.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2735	241
S1.80.200.125.4.50E.H.244.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2735	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.80.200.75.4.50E.C.198.G.N.D	198	80	10	20
S1.80.200.75.4.50E.H.198.G.N.D	198	80	10	20
S1.80.200.75.4.50E.S.198.G.N.D	198	80	10	20
S1.80.200.100.4.50E.S.220.G.N.D	220	80	10	20
S1.80.200.100.4.50E.C.220.G.N.D	220	80	10	20
S1.80.200.100.4.50E.H.220.G.N.D	220	80	10	20
S1.80.200.125.4.50E.S.244.G.N.D	244	80	10	20
S1.80.200.125.4.50E.C.244.G.N.D	244	80	10	20
S1.80.200.125.4.50E.H.244.G.N.D	244	80	10	20

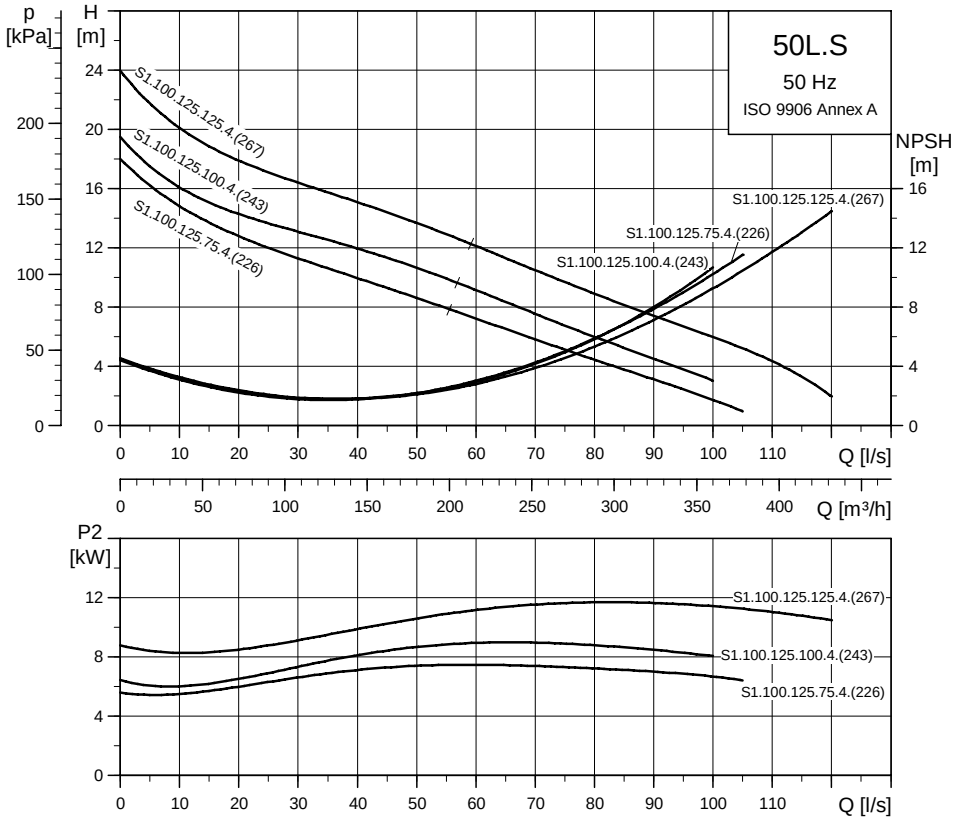
Dimensional sketches



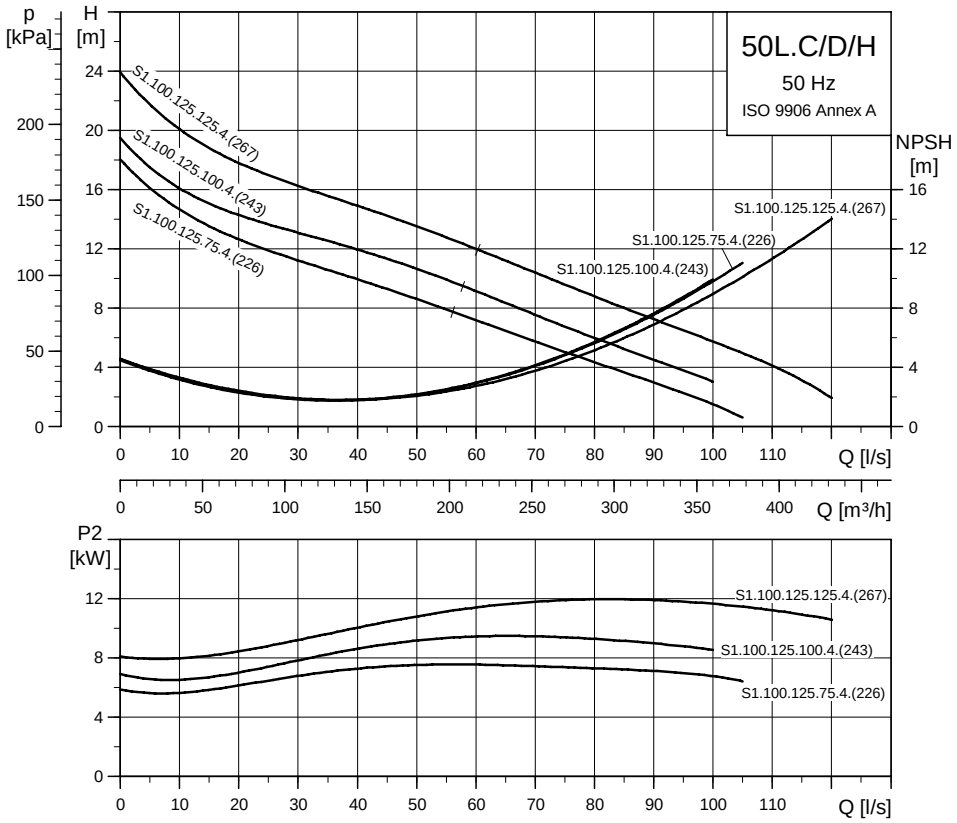
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Low pressure - 3 x 400/690 V



TM04 0638 0908



TM04 0639 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.100.125.75.4.50L.S.226.G.N.D	S	981	588	241	380	430	164	DN 150	125	220	95113682
S1.100.125.75.4.50L.C.226.G.N.D	C	981	588	241	380	430	164	DN 150	125	240	95113683
S1.100.125.75.4.50L.H.226.G.N.D	H	981	588	241	380	430	164	DN 150	125	260	95113684
S1.100.125.100.4.50L.S.243.G.N.D	S	981	588	241	380	430	164	DN 150	125	250	95113694
S1.100.125.100.4.50L.C.243.G.N.D	C	981	588	241	380	430	164	DN 150	125	270	95113695
S1.100.125.100.4.50L.H.243.G.N.D	H	981	588	241	380	430	164	DN 150	125	290	95113696
S1.100.125.125.4.50L.S.267.G.N.D	S	981	588	241	380	430	164	DN 150	125	250	95113706
S1.100.125.125.4.50L.C.267.G.N.D	C	981	588	241	380	430	164	DN 150	125	270	95113707
S1.100.125.125.4.50L.H.267.G.N.D	H	981	588	241	380	430	164	DN 150	125	290	95113708

With 10 m cable

Electrical data

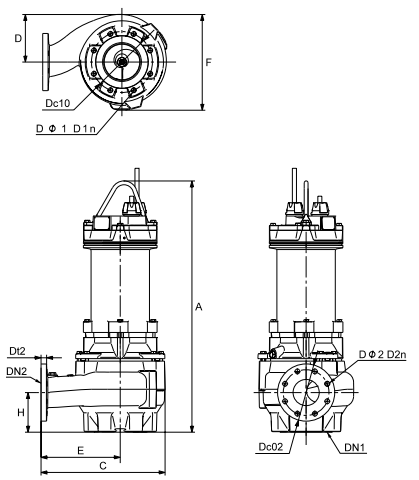
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.100.125.75.4.50L.S.226.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1597	156
S1.100.125.75.4.50L.C.226.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1597	156
S1.100.125.75.4.50L.H.226.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1597	156
S1.100.125.100.4.50L.S.243.G.N.D	12	10	4	1456	Y/D	22	207	79	83	84	0.60	0.72	0.80	0.2043	241
S1.100.125.100.4.50L.C.243.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.2043	241
S1.100.125.100.4.50L.H.243.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.2043	241
S1.100.125.125.4.50L.S.267.G.N.D	15	12.5	4	1441	Y/D	26	207	81	84	84	0.66	0.78	0.84	0.2842	241
S1.100.125.125.4.50L.C.267.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2842	241
S1.100.125.125.4.50L.H.267.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2842	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.100.125.75.4.50L.S.226.G.N.D	226	100	10	20
S1.100.125.75.4.50L.C.226.G.N.D	226	100	10	20
S1.100.125.75.4.50L.H.226.G.N.D	226	100	10	20
S1.100.125.100.4.50L.S.243.G.N.D	243	100	10	20
S1.100.125.100.4.50L.C.243.G.N.D	243	100	10	20
S1.100.125.100.4.50L.H.243.G.N.D	243	100	10	20
S1.100.125.125.4.50L.S.267.G.N.D	267	100	10	20
S1.100.125.125.4.50L.C.267.G.N.D	267	100	10	20
S1.100.125.125.4.50L.H.267.G.N.D	267	100	10	20

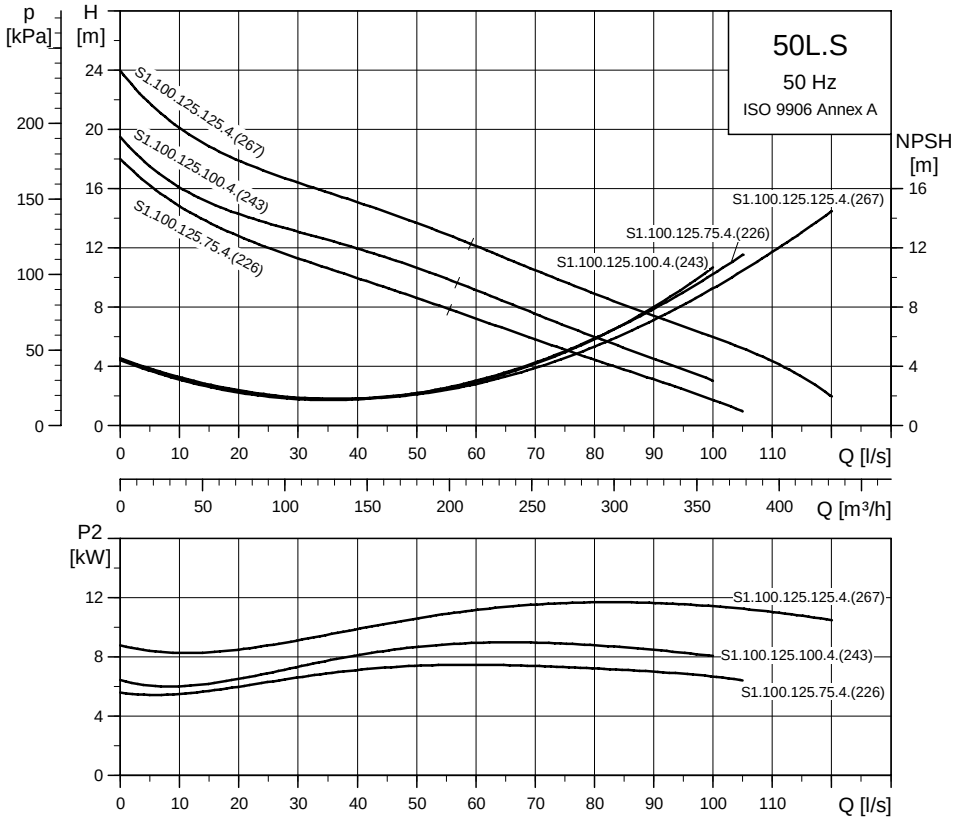
Dimensional sketches



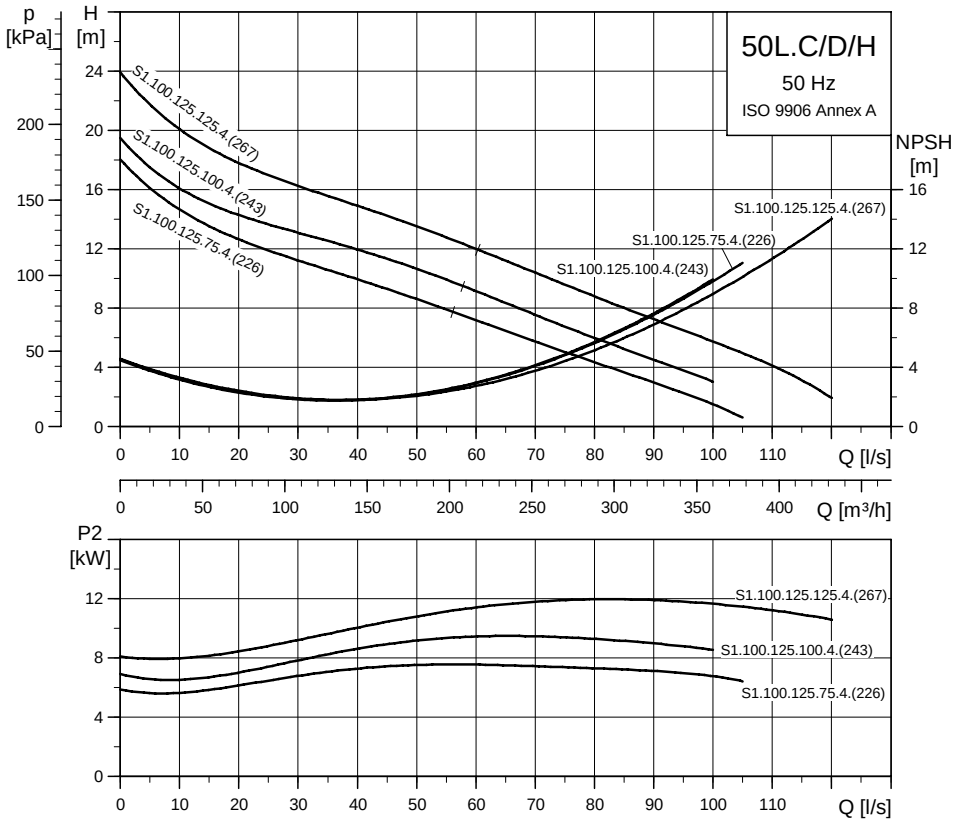
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Low pressure - 3 x 415 V



TM04 0638 0908



TM04 0639 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.100.125.75.4.50L.S.226.G.N.D	S	981	588	241	380	430	164	DN 150	125	220	96776459
S1.100.125.75.4.50L.C.226.G.N.D	C	981	588	241	380	430	164	DN 150	125	240	96776462
S1.100.125.75.4.50L.H.226.G.N.D	H	981	588	241	380	430	164	DN 150	125	260	96776464
S1.100.125.100.4.50L.S.243.G.N.D	S	981	588	241	380	430	164	DN 150	125	250	96776475
S1.100.125.100.4.50L.C.243.G.N.D	C	981	588	241	380	430	164	DN 150	125	270	96776476
S1.100.125.100.4.50L.H.243.G.N.D	H	981	588	241	380	430	164	DN 150	125	290	96776477
S1.100.125.125.4.50L.S.267.G.N.D	S	981	588	241	380	430	164	DN 150	125	250	96776487
S1.100.125.125.4.50L.C.267.G.N.D	C	981	588	241	380	430	164	DN 150	125	270	96776488
S1.100.125.125.4.50L.H.267.G.N.D	H	981	588	241	380	430	164	DN 150	125	290	96776489

With 10 m cable

Electrical data

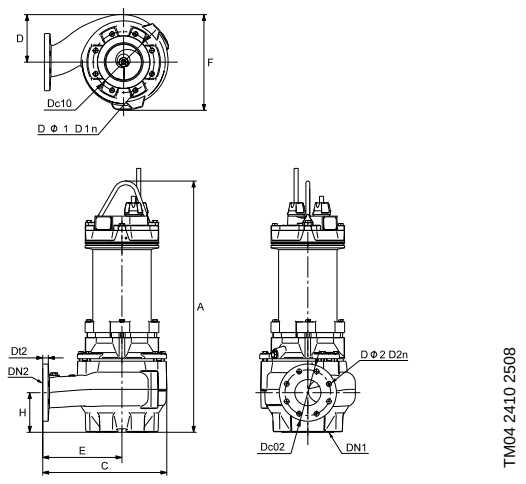
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N [A]	I_{start} [A]	η_{motor} [%] 1/2	3/4	1/1	Cos φ 1/2	3/4	1/1	Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
S1.100.125.75.4.50L.S.226.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1597	156
S1.100.125.75.4.50L.C.226.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1597	156
S1.100.125.75.4.50L.H.226.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1597	156
S1.100.125.100.4.50L.S.243.G.N.D	12	10	4	1456	Y/D	21	199	79	83	84	0.60	0.72	0.80	0.2043	241
S1.100.125.100.4.50L.C.243.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.2043	241
S1.100.125.100.4.50L.H.243.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.2043	241
S1.100.125.125.4.50L.S.267.G.N.D	15	12.5	4	1441	Y/D	25	199	81	84	84	0.66	0.78	0.84	0.2842	241
S1.100.125.125.4.50L.C.267.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2842	241
S1.100.125.125.4.50L.H.267.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2842	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter [mm]	Max. solids size [mm]	Pump housing pressure PN	Max. installation depth [m]
S1.100.125.75.4.50L.S.226.G.N.D	226	100	10	20
S1.100.125.75.4.50L.C.226.G.N.D	226	100	10	20
S1.100.125.75.4.50L.H.226.G.N.D	226	100	10	20
S1.100.125.100.4.50L.S.243.G.N.D	243	100	10	20
S1.100.125.100.4.50L.C.243.G.N.D	243	100	10	20
S1.100.125.100.4.50L.H.243.G.N.D	243	100	10	20
S1.100.125.125.4.50L.S.267.G.N.D	267	100	10	20
S1.100.125.125.4.50L.C.267.G.N.D	267	100	10	20
S1.100.125.125.4.50L.H.267.G.N.D	267	100	10	20

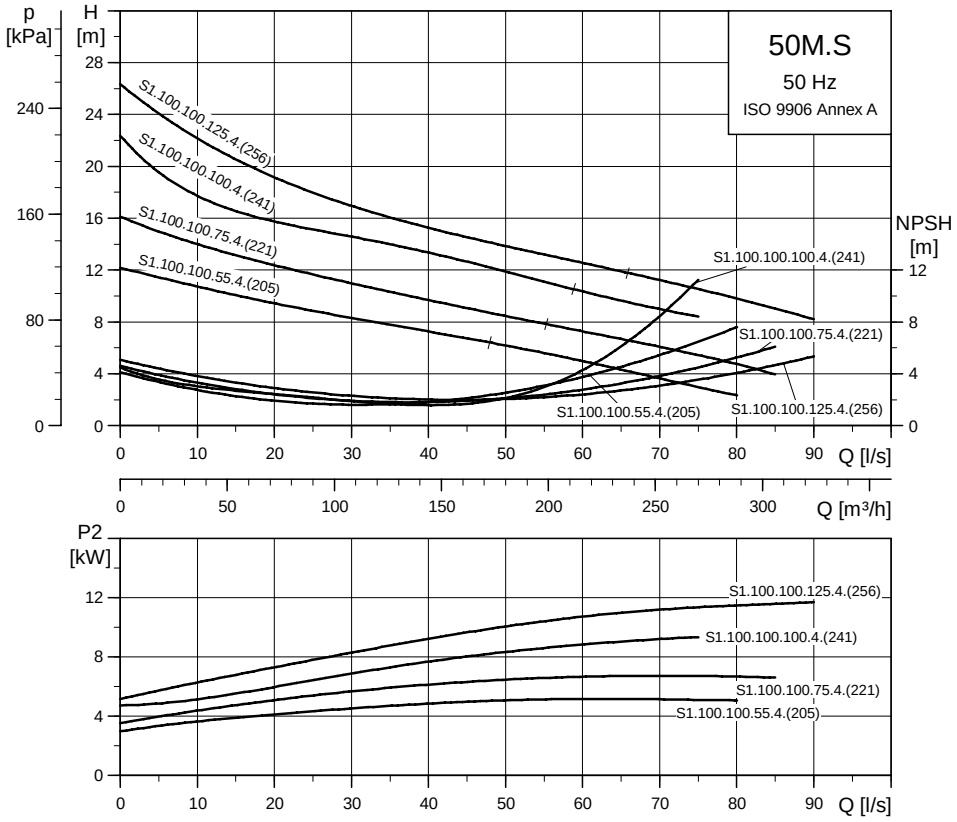
Dimensional sketches



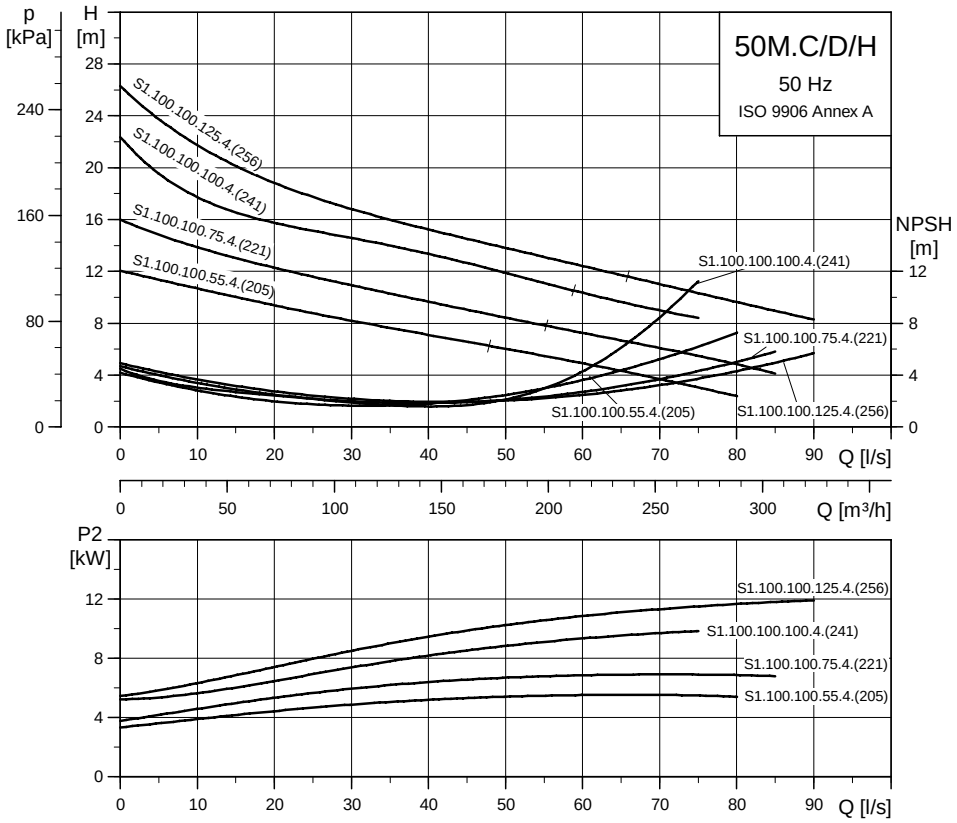
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Medium pressure - 3 x 400/690 V



TM04 0351 0708



TM04 0631 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.100.100.55.4.50M.S.205.G.N.D	S	990	489	186	312	373	156	DN 150	100	170	95113667
S1.100.100.55.4.50M.C.205.G.N.D	C	990	489	186	312	373	156	DN 150	100	190	95113668
S1.100.100.55.4.50M.H.205.G.N.D	H	990	489	186	312	373	156	DN 150	100	200	95113669
S1.100.100.75.4.50M.S.221.G.N.D	S	990	489	186	312	373	156	DN 150	100	170	95113673
S1.100.100.75.4.50M.C.221.G.N.D	C	990	489	186	312	373	156	DN 150	100	190	95113674
S1.100.100.75.4.50M.H.221.G.N.D	H	990	489	186	312	373	156	DN 150	100	200	95113675
S1.100.100.100.4.50M.S.241.G.N.D	S	990	489	186	312	373	156	DN 150	100	190	95113697
S1.100.100.100.4.50M.C.241.G.N.D	C	990	489	186	312	373	156	DN 150	100	210	95113698
S1.100.100.100.4.50M.H.241.G.N.D	H	990	489	186	312	373	156	DN 150	100	230	95113699
S1.100.100.125.4.50M.S.256.G.N.D	S	990	489	186	312	373	156	DN 150	100	190	95113709
S1.100.100.125.4.50M.C.256.G.N.D	C	990	489	186	312	373	156	DN 150	100	210	95113710
S1.100.100.125.4.50M.H.256.G.N.D	H	990	489	186	312	373	156	DN 150	100	230	95113711

With 10 m cable

Electrical data

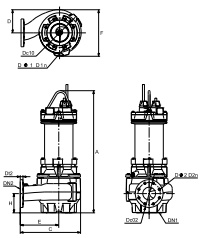
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.100.100.55.4.50M.S.205.G.N.D	7.2	5.5	4	1463	Y/D	14	103	66	72	76	0.56	0.67	0.75	0.132	156
S1.100.100.55.4.50M.C.205.G.N.D	7.2	5.5	4	1463	Y/D	14	103	66	72	76	0.56	0.67	0.75	0.132	156
S1.100.100.55.4.50M.H.205.G.N.D	7.2	5.5	4	1463	Y/D	14	103	66	72	76	0.56	0.67	0.75	0.132	156
S1.100.100.75.4.50M.S.221.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1954	156
S1.100.100.75.4.50M.C.221.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1954	156
S1.100.100.75.4.50M.H.221.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1954	156
S1.100.100.100.4.50M.S.241.G.N.D	12	10	4	1456	Y/D	22	207	79	83	84	0.60	0.72	0.80	0.207	241
S1.100.100.100.4.50M.C.241.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.207	241
S1.100.100.100.4.50M.H.241.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.207	241
S1.100.100.125.4.50M.S.256.G.N.D	15	12.5	4	1441	Y/D	26	207	81	84	84	0.66	0.78	0.84	0.2576	241
S1.100.100.125.4.50M.C.256.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2576	241
S1.100.100.125.4.50M.H.256.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2576	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.100.100.55.4.50M.S.205.G.N.D	205	100	10	20
S1.100.100.55.4.50M.C.205.G.N.D	205	100	10	20
S1.100.100.55.4.50M.H.205.G.N.D	205	100	10	20
S1.100.100.75.4.50M.S.221.G.N.D	221	100	10	20
S1.100.100.75.4.50M.C.221.G.N.D	221	100	10	20
S1.100.100.75.4.50M.H.221.G.N.D	221	100	10	20
S1.100.100.100.4.50M.S.241.G.N.D	241	100	10	20
S1.100.100.100.4.50M.C.241.G.N.D	241	100	10	20
S1.100.100.100.4.50M.H.241.G.N.D	241	100	10	20
S1.100.100.125.4.50M.S.256.G.N.D	256	100	10	20
S1.100.100.125.4.50M.C.256.G.N.D	256	100	10	20
S1.100.100.125.4.50M.H.256.G.N.D	256	100	10	20

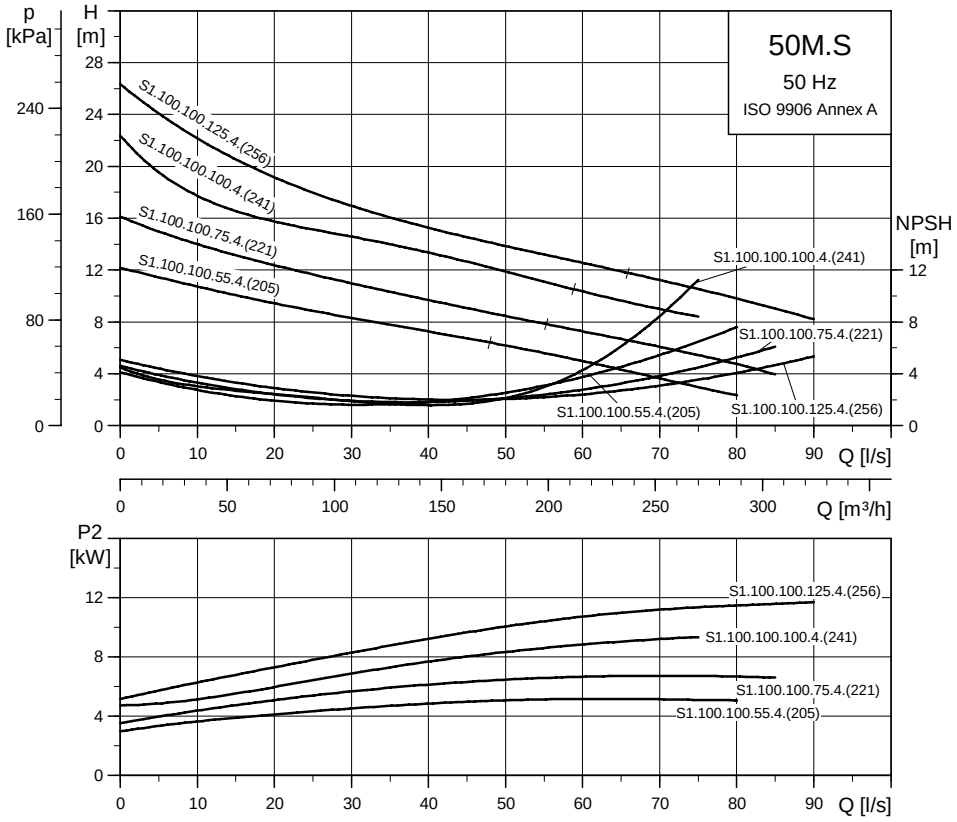
Dimensional sketches



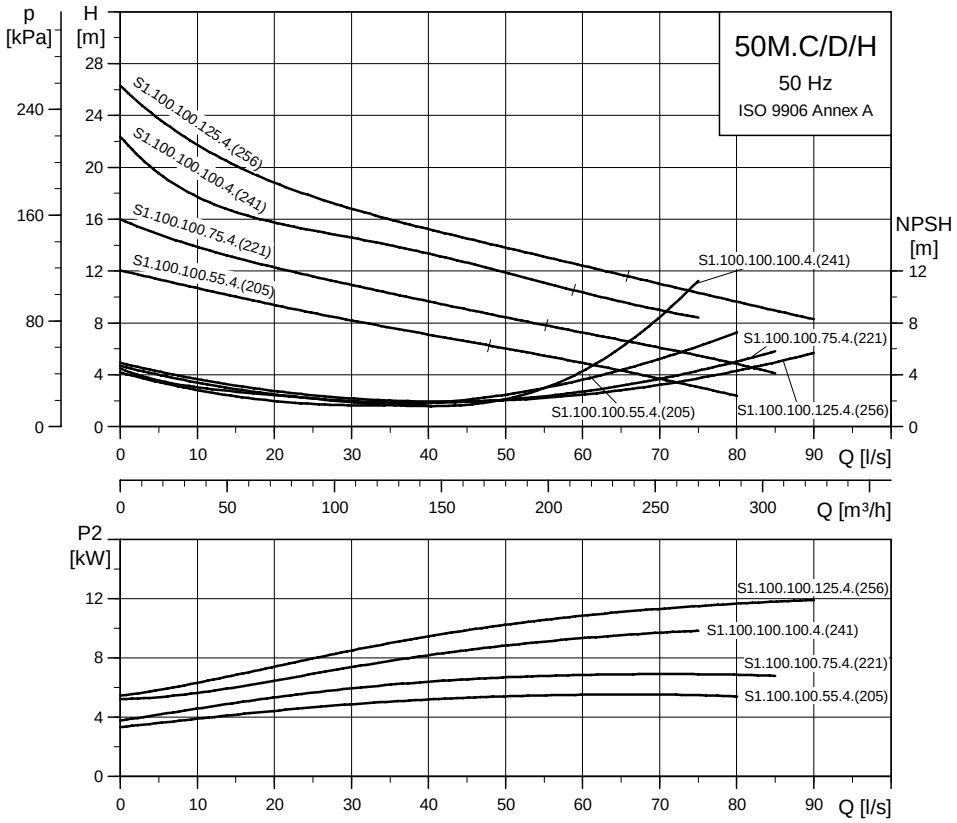
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Medium pressure - 3 x 415 V



TM04 0351 0708



TM04 0631 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.100.100.55.4.50M.S.205.G.N.D	S	990	489	186	312	373	156	DN 150	100	170	96776410
S1.100.100.55.4.50M.C.205.G.N.D	C	990	489	186	312	373	156	DN 150	100	190	96776411
S1.100.100.55.4.50M.H.205.G.N.D	H	990	489	186	312	373	156	DN 150	100	200	96776443
S1.100.100.75.4.50M.S.221.G.N.D	S	990	489	186	312	373	156	DN 150	100	170	96776447
S1.100.100.75.4.50M.C.221.G.N.D	C	990	489	186	312	373	156	DN 150	100	190	96776448
S1.100.100.75.4.50M.H.221.G.N.D	H	990	489	186	312	373	156	DN 150	100	170	96776449
S1.100.100.100.4.50M.S.241.G.N.D	S	990	489	186	312	373	156	DN 150	100	190	96776478
S1.100.100.100.4.50M.C.241.G.N.D	C	990	489	186	312	373	156	DN 150	100	210	96776479
S1.100.100.100.4.50M.H.241.G.N.D	H	990	489	186	312	373	156	DN 150	100	230	96776480
S1.100.100.125.4.50M.S.256.G.N.D	S	990	489	186	312	373	156	DN 150	100	190	96776490
S1.100.100.125.4.50M.C.256.G.N.D	C	990	489	186	312	373	156	DN 150	100	210	96776491
S1.100.100.125.4.50M.H.256.G.N.D	H	990	489	186	312	373	156	DN 150	100	230	96776492

With 10 m cable

Electrical data

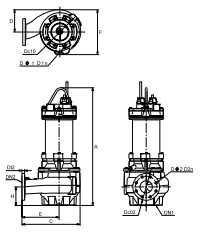
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.100.100.55.4.50M.S.205.G.N.D	7.2	5.5	4	1463	Y/D	14	99	66	72	76	0.56	0.67	0.75	0.132	156
S1.100.100.55.4.50M.C.205.G.N.D	7.2	5.5	4	1463	Y/D	14	99	66	72	76	0.56	0.67	0.75	0.132	156
S1.100.100.55.4.50M.H.205.G.N.D	7.2	5.5	4	1463	Y/D	14	99	66	72	76	0.56	0.67	0.75	0.132	156
S1.100.100.75.4.50M.S.221.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1954	156
S1.100.100.75.4.50M.C.221.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1954	156
S1.100.100.75.4.50M.H.221.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1954	156
S1.100.100.100.4.50M.S.241.G.N.D	12	10	4	1456	Y/D	21	199	79	83	84	0.60	0.72	0.80	0.207	241
S1.100.100.100.4.50M.C.241.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.207	241
S1.100.100.100.4.50M.H.241.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.207	241
S1.100.100.125.4.50M.S.256.G.N.D	15	12.5	4	1441	Y/D	25	199	81	84	84	0.66	0.78	0.84	0.2576	241
S1.100.100.125.4.50M.C.256.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2576	241
S1.100.100.125.4.50M.H.256.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2576	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.100.100.55.4.50M.S.205.G.N.D	205	100	10	20
S1.100.100.55.4.50M.C.205.G.N.D	205	100	10	20
S1.100.100.55.4.50M.H.205.G.N.D	205	100	10	20
S1.100.100.75.4.50M.S.221.G.N.D	221	100	10	20
S1.100.100.75.4.50M.C.221.G.N.D	221	100	10	20
S1.100.100.75.4.50M.H.221.G.N.D	221	100	10	20
S1.100.100.100.4.50M.S.241.G.N.D	241	100	10	20
S1.100.100.100.4.50M.C.241.G.N.D	241	100	10	20
S1.100.100.100.4.50M.H.241.G.N.D	241	100	10	20
S1.100.100.125.4.50M.S.256.G.N.D	256	100	10	20
S1.100.100.125.4.50M.C.256.G.N.D	256	100	10	20
S1.100.100.125.4.50M.H.256.G.N.D	256	100	10	20

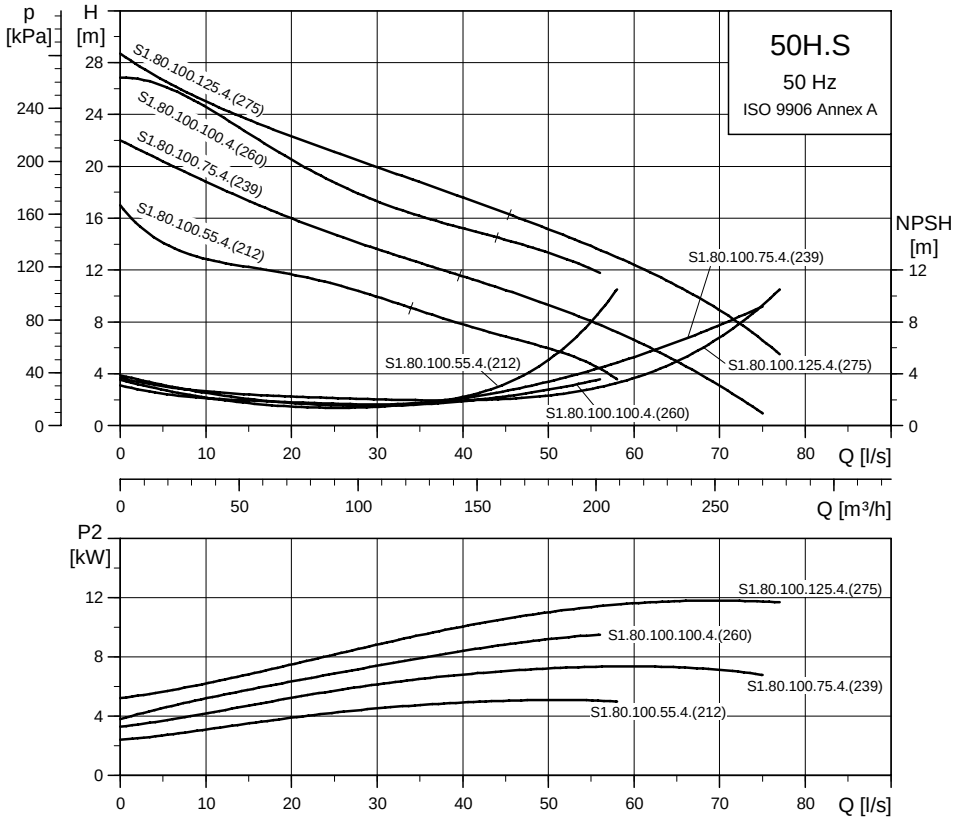
Dimensional sketches



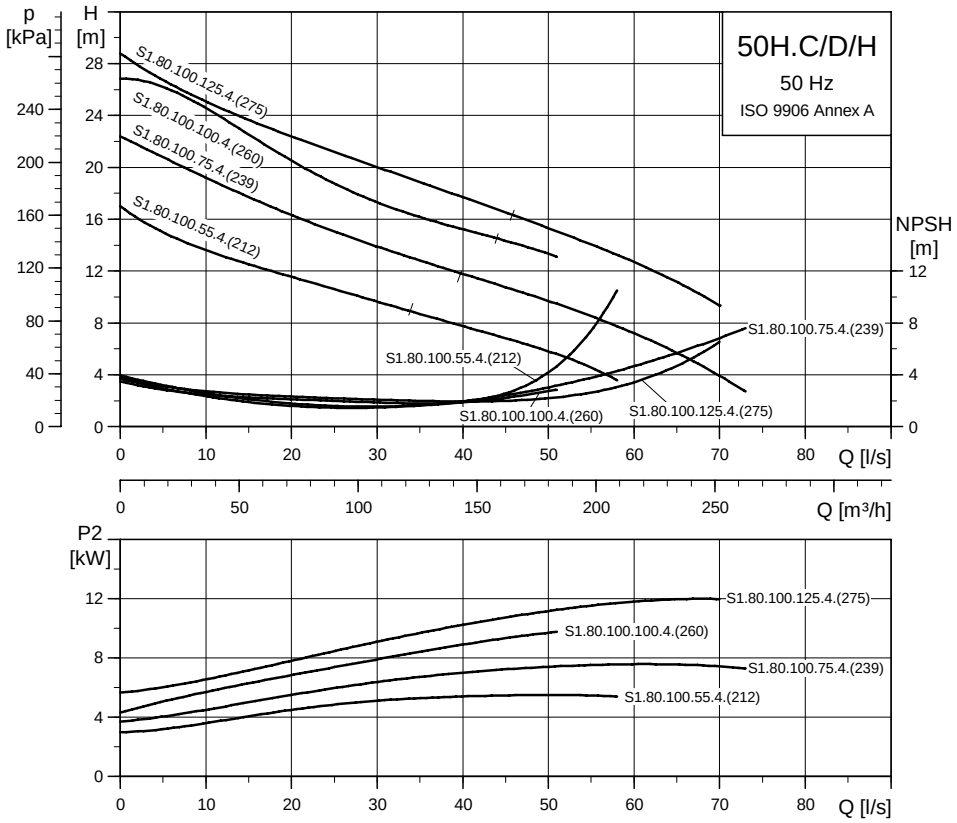
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

High pressure - 3 x 400/690 V



TM04 0634 0908



TM04 0635 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.80.100.55.4.50H.S.212.G.N.D	S	971	464	185	285	371	160	DN 100	100	180	95113670
S1.80.100.55.4.50H.C.212.G.N.D	C	971	464	185	285	371	160	DN 100	100	190	95113671
S1.80.100.55.4.50H.H.212.G.N.D	H	971	464	185	285	371	160	DN 100	100	210	95113672
S1.80.100.75.4.50H.S.239.G.N.D	S	971	464	185	285	371	160	DN 100	100	180	95113679
S1.80.100.75.4.50H.C.239.G.N.D	C	971	464	185	285	371	160	DN 100	100	190	95113680
S1.80.100.75.4.50H.H.239.G.N.D	H	971	464	185	285	371	160	DN 100	100	210	95113681
S1.80.100.100.4.50H.S.260.G.N.D	S	971	464	185	285	371	160	DN 100	100	200	95113691
S1.80.100.100.4.50H.C.260.G.N.D	C	971	464	185	285	371	160	DN 100	100	220	95113692
S1.80.100.100.4.50H.H.260.G.N.D	H	971	464	185	285	371	160	DN 100	100	240	95113693
S1.80.100.125.4.50H.S.275.G.N.D	S	971	464	185	285	371	160	DN 100	100	200	95113703
S1.80.100.125.4.50H.C.275.G.N.D	C	971	464	185	285	371	160	DN 100	100	220	95113704
S1.80.100.125.4.50H.H.275.G.N.D	H	971	464	185	285	371	160	DN 100	100	240	95113705

With 10 m cable

Electrical data

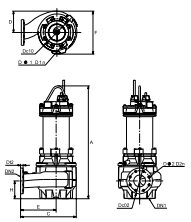
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.80.100.55.4.50H.S.212.G.N.D	7.2	5.5	4	1463	Y/D	14	103	66	72	76	0.56	0.67	0.75	0.1702	156
S1.80.100.55.4.50H.C.212.G.N.D	7.2	5.5	4	1463	Y/D	14	103	66	72	76	0.56	0.67	0.75	0.1702	156
S1.80.100.55.4.50H.H.212.G.N.D	7.2	5.5	4	1463	Y/D	14	103	66	72	76	0.56	0.67	0.75	0.1702	156
S1.80.100.75.4.50H.S.239.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1852	156
S1.80.100.75.4.50H.C.239.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1852	156
S1.80.100.75.4.50H.H.239.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.1852	156
S1.80.100.100.4.50H.S.260.G.N.D	12	10	4	1456	Y/D	22	207	79	83	84	0.60	0.72	0.80	0.2143	241
S1.80.100.100.4.50H.C.260.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.2143	241
S1.80.100.100.4.50H.H.260.G.N.D	12	10.5	4	1459	Y/D	23	207	79	83	84	0.61	0.73	0.81	0.2143	241
S1.80.100.125.4.50H.S.275.G.N.D	15	12.5	4	1441	Y/D	26	207	81	84	84	0.66	0.78	0.84	0.2404	241
S1.80.100.125.4.50H.C.275.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2404	241
S1.80.100.125.4.50H.H.275.G.N.D	16	13	4	1436	Y/D	27	207	81	84	84	0.67	0.79	0.84	0.2404	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.80.100.55.4.50H.S.212.G.N.D	212	80	10	20
S1.80.100.55.4.50H.C.212.G.N.D	212	80	10	20
S1.80.100.55.4.50H.H.212.G.N.D	212	80	10	20
S1.80.100.75.4.50H.S.239.G.N.D	239	80	10	20
S1.80.100.75.4.50H.C.239.G.N.D	239	80	10	20
S1.80.100.75.4.50H.H.239.G.N.D	239	80	10	20
S1.80.100.100.4.50H.S.260.G.N.D	260	80	10	20
S1.80.100.100.4.50H.C.260.G.N.D	260	80	10	20
S1.80.100.100.4.50H.H.260.G.N.D	260	80	10	20
S1.80.100.125.4.50H.S.275.G.N.D	275	80	10	20
S1.80.100.125.4.50H.C.275.G.N.D	275	80	10	20
S1.80.100.125.4.50H.H.275.G.N.D	275	80	10	20

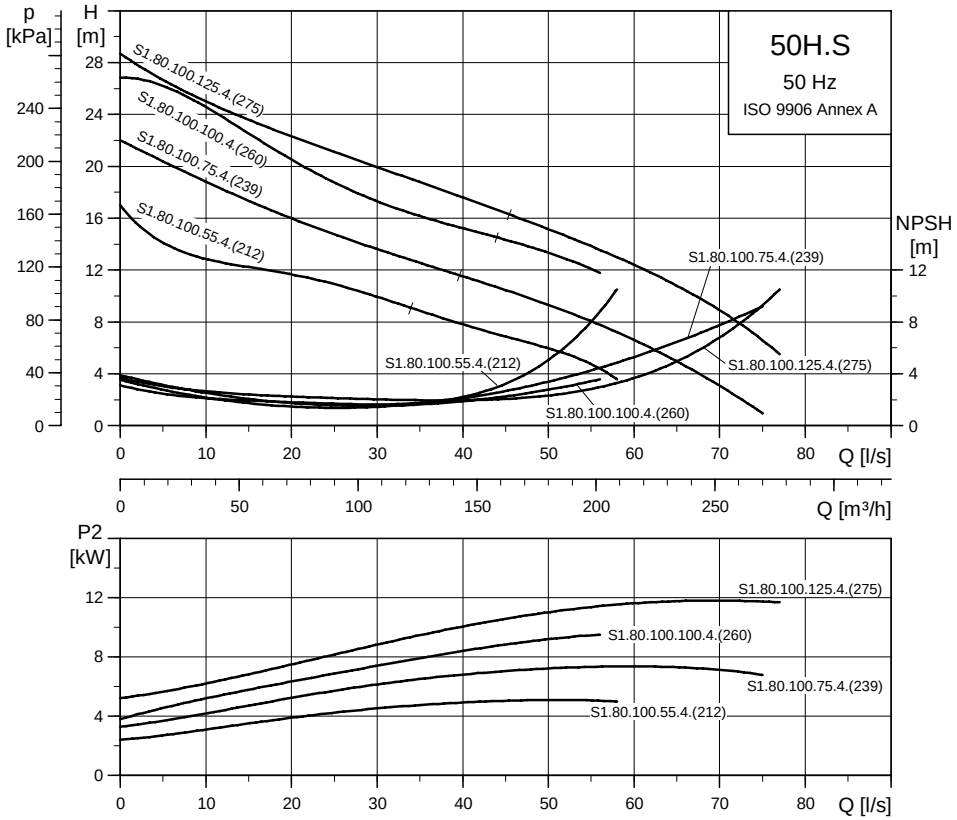
Dimensional sketches



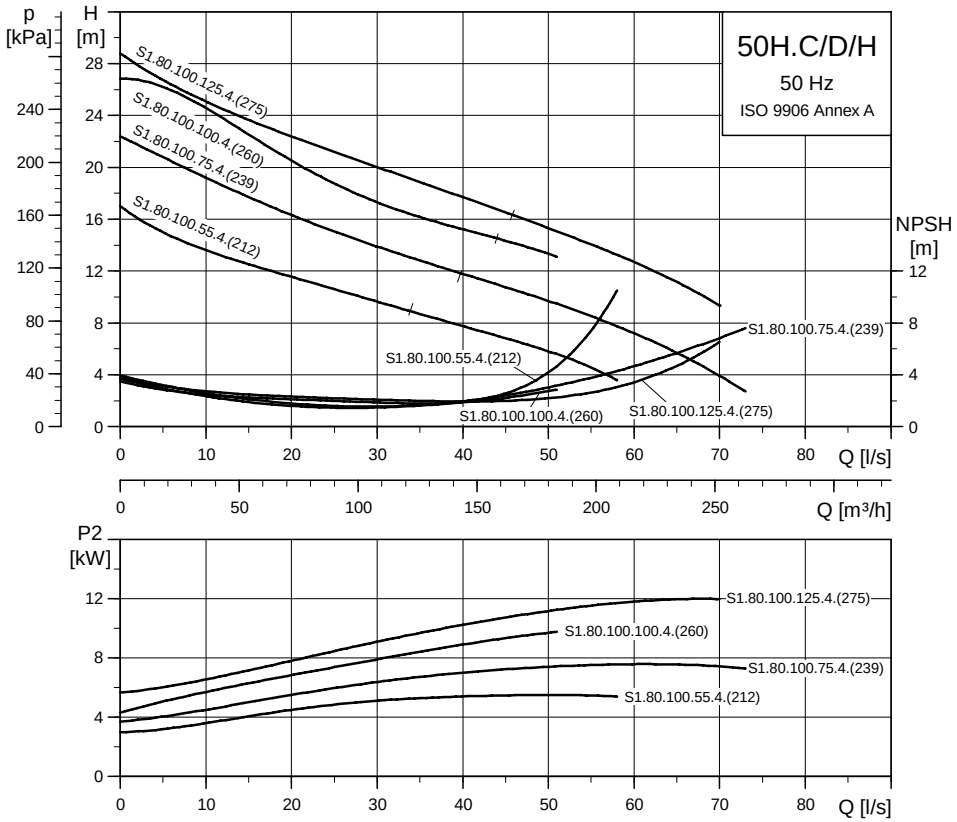
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

High pressure - 3 x 415 V



TM04 0634 0908



TM04 0635 0908

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.80.100.55.4.50H.S.212.G.N.D	S	971	464	185	285	371	160	DN 100	100	180	96776444
S1.80.100.55.4.50H.C.212.G.N.D	C	971	464	185	285	371	160	DN 100	100	190	96776445
S1.80.100.55.4.50H.H.212.G.N.D	H	971	464	185	285	371	160	DN 100	100	210	96776446
S1.80.100.75.4.50H.S.239.G.N.D	S	971	464	185	285	371	160	DN 100	100	180	96776455
S1.80.100.75.4.50H.C.239.G.N.D	C	971	464	185	285	371	160	DN 100	100	190	96776456
S1.80.100.75.4.50H.H.239.G.N.D	H	971	464	185	285	371	160	DN 100	100	210	96776457
S1.80.100.100.4.50H.S.260.G.N.D	S	971	464	185	285	371	160	DN 100	100	200	96776472
S1.80.100.100.4.50H.C.260.G.N.D	C	971	464	185	285	371	160	DN 100	100	220	96776473
S1.80.100.100.4.50H.H.260.G.N.D	H	971	464	185	285	371	160	DN 100	100	240	96776474
S1.80.100.125.4.50H.S.275.G.N.D	S	971	464	185	285	371	160	DN 100	100	200	96776484
S1.80.100.125.4.50H.C.275.G.N.D	C	971	464	185	285	371	160	DN 100	100	220	96776485
S1.80.100.125.4.50H.H.275.G.N.D	H	971	464	185	285	371	160	DN 100	100	240	96776486

With 10 m cable

Electrical data

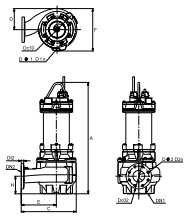
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.80.100.55.4.50H.S.212.G.N.D	7.2	5.5	4	1463	Y/D	14	99	66	72	76	0.56	0.67	0.75	0.1702	156
S1.80.100.55.4.50H.C.212.G.N.D	7.2	5.5	4	1463	Y/D	14	99	66	72	76	0.56	0.67	0.75	0.1702	156
S1.80.100.55.4.50H.H.212.G.N.D	7.2	5.5	4	1463	Y/D	14	99	66	72	76	0.56	0.67	0.75	0.1702	156
S1.80.100.75.4.50H.S.239.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1852	156
S1.80.100.75.4.50H.C.239.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1852	156
S1.80.100.75.4.50H.H.239.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.1852	156
S1.80.100.100.4.50H.S.260.G.N.D	12	10	4	1456	Y/D	21	199	79	83	84	0.60	0.72	0.80	0.2143	241
S1.80.100.100.4.50H.C.260.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.2143	241
S1.80.100.100.4.50H.H.260.G.N.D	12	10.5	4	1459	Y/D	22	199	79	83	84	0.61	0.73	0.81	0.2143	241
S1.80.100.125.4.50H.S.275.G.N.D	15	12.5	4	1441	Y/D	25	199	81	84	84	0.66	0.78	0.84	0.2404	241
S1.80.100.125.4.50H.C.275.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2404	241
S1.80.100.125.4.50H.H.275.G.N.D	16	13	4	1436	Y/D	26	199	81	84	84	0.67	0.79	0.84	0.2404	241

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.80.100.55.4.50H.S.212.G.N.D	212	80	10	20
S1.80.100.55.4.50H.C.212.G.N.D	212	80	10	20
S1.80.100.55.4.50H.H.212.G.N.D	212	80	10	20
S1.80.100.75.4.50H.S.239.G.N.D	239	80	10	20
S1.80.100.75.4.50H.C.239.G.N.D	239	80	10	20
S1.80.100.75.4.50H.H.239.G.N.D	239	80	10	20
S1.80.100.100.4.50H.S.260.G.N.D	260	80	10	20
S1.80.100.100.4.50H.C.260.G.N.D	260	80	10	20
S1.80.100.100.4.50H.H.260.G.N.D	260	80	10	20
S1.80.100.125.4.50H.S.275.G.N.D	275	80	10	20
S1.80.100.125.4.50H.C.275.G.N.D	275	80	10	20
S1.80.100.125.4.50H.H.275.G.N.D	275	80	10	20

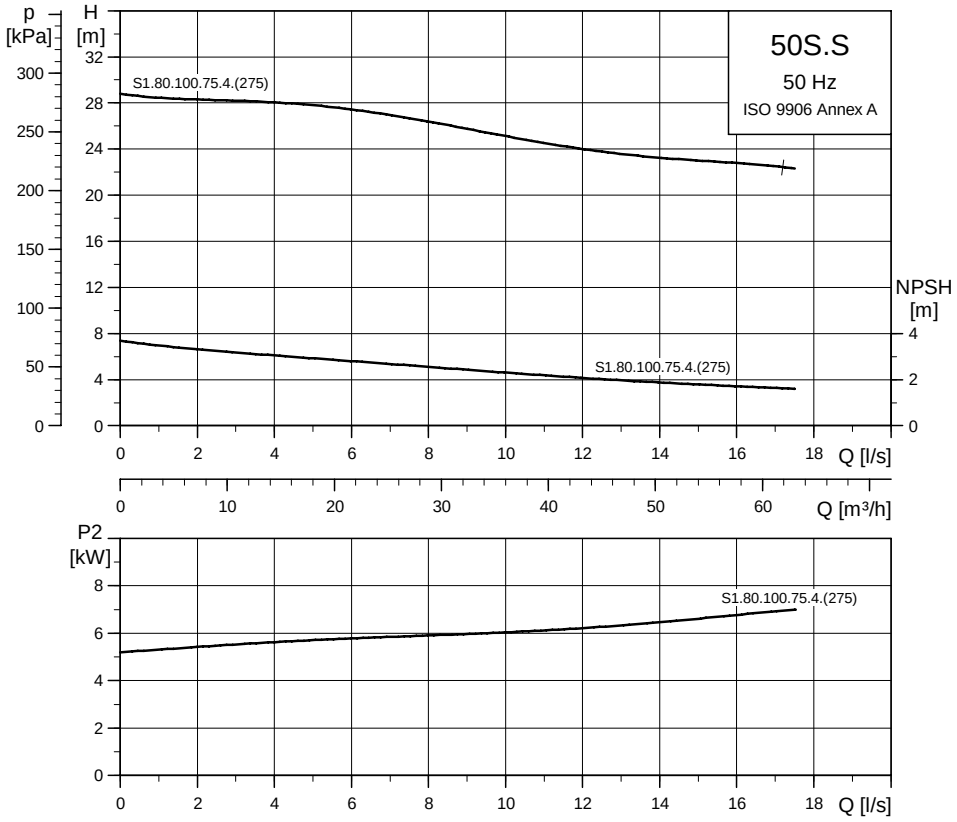
Dimensional sketches



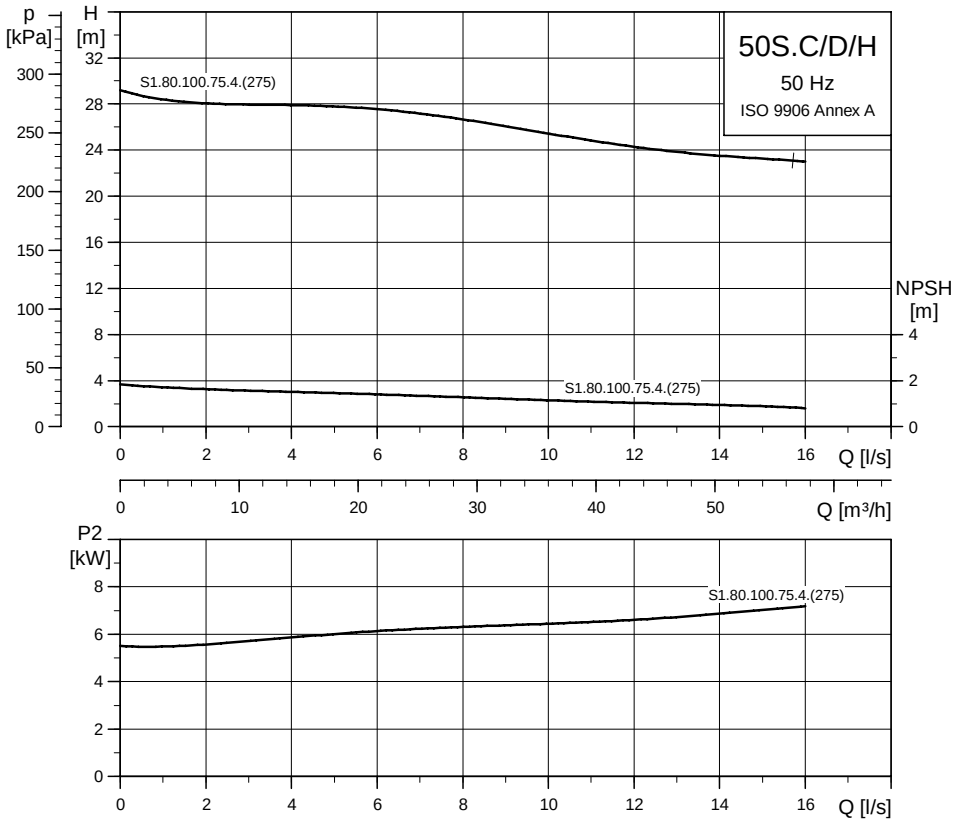
TM04 2410 2508

Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Super-high pressure - 3 x 400/690 V



TM04 0640 0908



TM04 0640 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.80.100.75.4.50S.S.275.G.N.D	S	971	464	185	285	371	160	DN 100	100	180	95113685
S1.80.100.75.4.50S.C.275.G.N.D	C	971	464	185	285	371	160	DN 100	100	190	95113686
S1.80.100.75.4.50S.H.275.G.N.D	H	971	464	185	285	371	160	DN 100	100	210	95113687

With 10 m cable

Electrical data

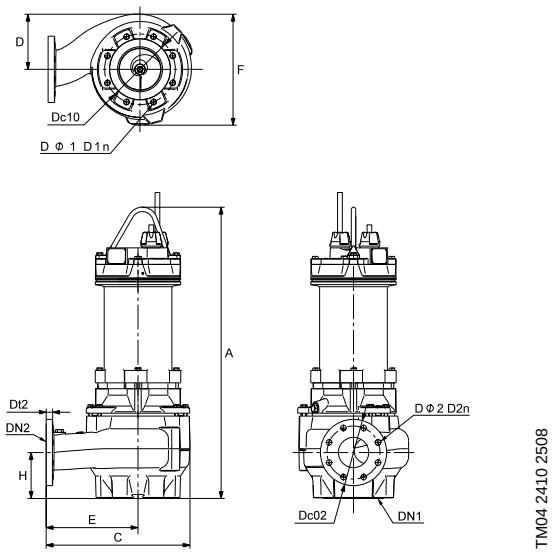
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.80.100.75.4.50S.S.275.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.2234	156
S1.80.100.75.4.50S.C.275.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.2234	156
S1.80.100.75.4.50S.H.275.G.N.D	9.6	7.5	4	1444	Y/D	17	103	71	76	78	0.64	0.76	0.83	0.2234	156

Note: Enclosure class: IP68

Pump data

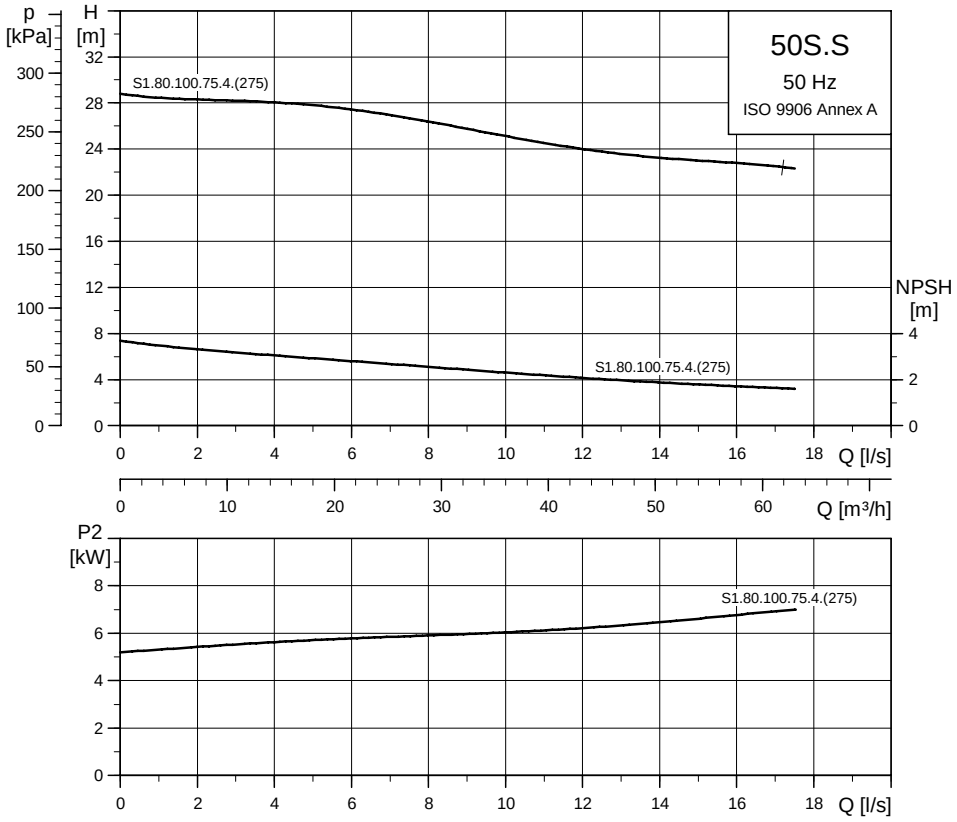
Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.80.100.75.4.50S.S.275.G.N.D	275	80	10	20
S1.80.100.75.4.50S.C.275.G.N.D	275	80	10	20
S1.80.100.75.4.50S.H.275.G.N.D	275	80	10	20

Dimensional sketches

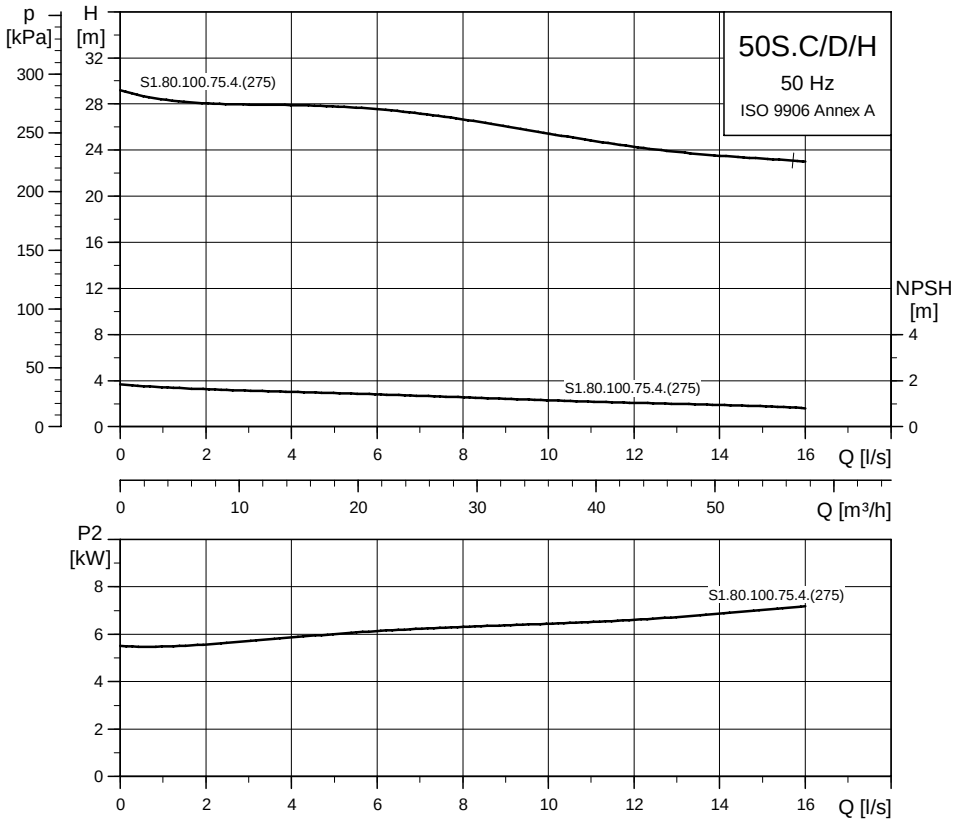


Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Super-high pressure - 3 x 415 V



TM04 0640 0908



TM04 0640 0908

Technical data

Product range and dimensions

Pump type	Installation type	A	C	D	E	F	H	DN1	DN2	Weight [kg]	Product number
S1.80.100.75.4.50S.S.275.G.N.D	S	971	464	185	285	371	160	DN 100	100	180	96776465
S1.80.100.75.4.50S.C.275.G.N.D	C	971	464	185	285	371	160	DN 100	100	190	96776466
S1.80.100.75.4.50S.H.275.G.N.D	H	971	464	185	285	371	160	DN 100	100	210	96776467

With 10 m cable

Electrical data

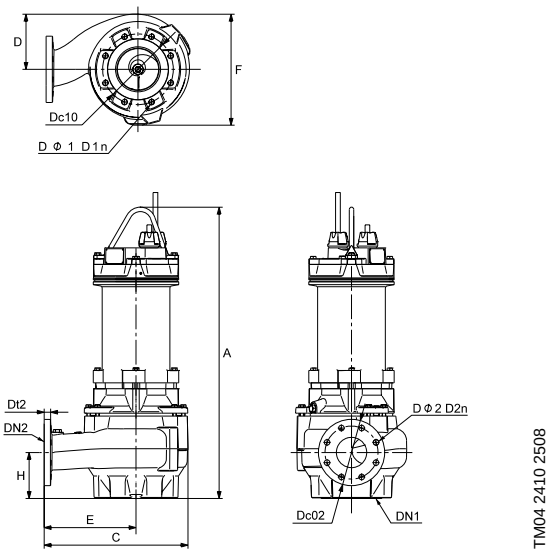
Pump type	P1 [kW]	P2 [kW]	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos φ			Moment of inertia [kgm^2]	Breakdown torque [Nm] M_{max} [Nm]
						[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
S1.80.100.75.4.50S.S.275.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.2234	156
S1.80.100.75.4.50S.C.275.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.2234	156
S1.80.100.75.4.50S.H.275.G.N.D	9.6	7.5	4	1444	Y/D	17	99	71	76	78	0.64	0.76	0.83	0.2234	156

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[mm]	[mm]	PN	[m]
S1.80.100.75.4.50S.S.275.G.N.D	275	80	10	20
S1.80.100.75.4.50S.C.275.G.N.D	275	80	10	20
S1.80.100.75.4.50S.H.275.G.N.D	275	80	10	20

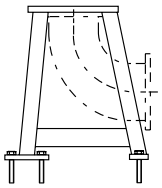
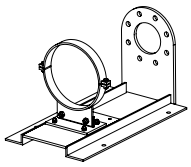
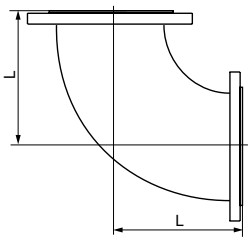
Dimensional sketches



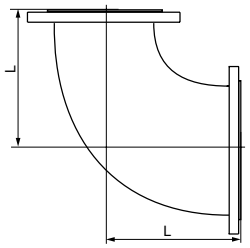
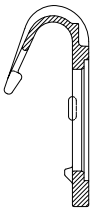
Size DN	PN	Dc	Dt	DØ
80	10	160	20	8 x 18
100	10	180	20	8 x 18
125	10	210	22	8 x 18
200	10	295	24	8 x 22

Accessories (for installation)

Pump type	Installation accessories
S 50-70 S and C	DN 80-200 without guide claw (guide claw included in auto-coupling kit)
S 50-70 S and C	DN 250-600 with guide claw mounted on the pump
S 50-70 D	Pump without installation accessories (accessories as separate kit)
S 50-70 H	Base stand for horizontal, dry installation supplied together with the pump

Pictures		Description		Size	Weight [kg]	PN	Product number
	GR8126	Cast-iron, epoxy-coated auto-coupling system complete with: • guide claw • base unit • upper guide rail bracket • gaskets and bolts.	Discharge flange	DN 80	49	10	96102240
				DN 100	54	10	96090994
				DN 125/150	95	10	96782145
				200	250	10	96641489
Intermediate guide rail bracket		For guide rails longer than 6 m		DN 80			96825142
				DN 100			96825161
				DN 125			96829331
Guide rails		Standard pipes. Not supplied by Grundfos					
				Stand/pump discharge hose			
	TM02 8856 0904 - TM02 8857 0904	Cast iron, epoxy-coated ring stand. Supplied with bolts, nuts, gaskets and anchor bolts.		DN 100/DN 100-4"		10	96102255
				DN 150/DN 100-6”		10	96102314
				DN 150/DN 125-6”		10	96789479
				DN 200/DN 200-8”		10	96789480
	TM04 4035 0509	Vertical base stand (without bend).	Suction flange	DN 100			96308237
				DN 150			96308238
				DN 200			96094523
	TM04 4156 0909	Base stand for horizontal, dry installation. Supplied with bolts, gaskets and anchor bolts. Material: * = galvanised steel ** = stainless steel		DN 100	45*		96776518
					45**		96830544
				DN 150	45*		96776517
					45**		96830549
				DN 200	51*		96801088
					51**		96830551
	TM04 4033 0509	Equal bend L = 200 mm		DN 100		10	96060930
		Equal bend L = 250 mm		DN 150		10	96060934
		Equal bend L = 300 mm		DN 200		10	96060938

Accessories

Pictures		Description	Size	Weight [kg]	PN	Product number
	TM04 4034 0509	Reducing bend L = 250	DN 100 / DN 150		10	96060931
		Reducing bend L = 250	DN 125 / DN 150		10	96060933
		Reducing bend L = 300	DN 150 / DN 200		10	96060935
		Reducing bend L = 350	DN 200 / DN 250		10	96090776
		Reducing bend L = 400	DN 200 / DN 300		10	96060940
		Reducing bend L = 500	DN 200 / DN 400		10	96605615
		10 ° adapter with lift function for Grundfos base unit UV 35579 (160 mm centre height) incl. guide claw, bolt, nuts and gaskets.	DN 80			96572290
			DN 100			96294872
	TM04 4157 0909	Adapter for Grundfos base unit UV 35586 B (260 mm centre height) incl. guide claw, bolt, nuts and gaskets.	DN 80			96572291
			DN 100			96572292

Other accessories

Pictures		Description			Product number
	TM02 6126 5102	4 m galvanized lifting chain with lifting link and safety hook. With certificates.	Max. 800 kg	S 34-58	96735550
		6 m galvanized lifting chain with lifting link and safety hook. With certificates.			96735553
		8 m galvanized lifting chain with lifting link and safety hook .With certificates.			96735554
		10 m galvanized lifting chain with lifting link and safety hook. With certificates.			96735556
		12 m galvanized lifting chain with lifting link and safety hook. With certificates.			96735557
		4 m stainless steel lifting chain with lifting link and safety hook. With certificates.			96735559
		6 m stainless steel lifting chain with lifting link and safety hook. With certificates.			96735564
		8 m stainless steel lifting chain with lifting link and safety hook. With certificates.	Max. 800 kg	S 34-58	96735566
		10 m stainless steel lifting chain with lifting link and safety hook. With certificates.			96735567
		12 m stainless steel lifting chain with lifting link and safety hook. With certificates.			96735569
	GR7871	AMD.07.18.1410 mixer, 3 x 400 V, 50 Hz			96113490
		Bracket for wall mounting	2” thread		96115291
		Bracket for floor mounting	2” thread		96115292
		Bracket for suspended mounting	2” thread		96115293
		Tube for suspended mounting, length 3 m	2” thread		96115294
	TM01 6982 3999	Float switch with 10 m cable			96003332
		Float switch with 20 m cable			96003695
		Float switch for use in potentially explosive environments. With 10 m cable			96003421
		Float switch for use in potentially explosive environments. With 20 m cable			96003536
	TM02 8862 0904	Bracket for two float switches			96003338
	TM02 0670 5000	Float switches with bracket, 10 m cable	2 switches, 1 pump without alarm		62500013
			3 switches, 1 pump with alarm		62500014
			3 switches, 2 pumps with alarm		62500014
			4 switches, 2 pumps with alarm		62500015
	TM02 0670 5000	Float switches for use in potentially explosive environments. With bracket and 10 m cable.	2 switches, 1 pump without alarm		62500016
			3 switches, 1 pump with alarm		62500017
			3 switches, 2 pumps with alarm		62500017
			4 switches, 2 pumps with alarm		62500018
	TM02 8860 0904	Bracket for level electrodes	For mounting on a 38 mm pipe		91713196

Installation on auto coupling

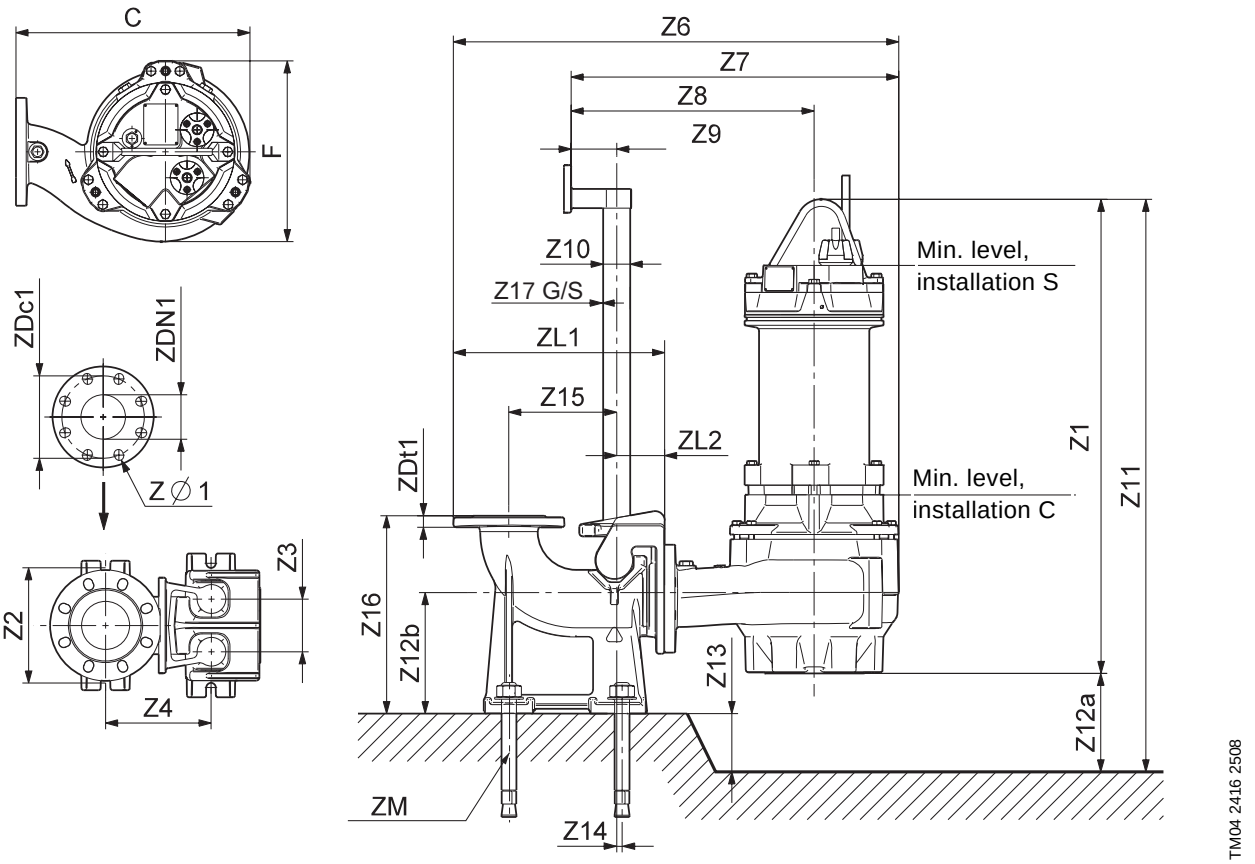


Fig. 17 Dimensional sketches, installation on auto-coupling system (1)

Note: Z12a is minimal recommended distance from pit bottom to bottom of pump suction side.
Z11 is total height of pump installed on Grundfos installation accessory in the pit. NOTE: This figure might not equal Z12a + Z1.

Pump type	C	F	ZØ1	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
SV.80.80.74.2.50H.S.xxx.G	578	356	8 x 20	935	260	110	220	1016	791	613	110	60.3	1017	82	240
SV.80.80.74.2.50H.S.xxx.R	578	356	8 x 20	935	220	95	160	932	739	561	81	48.3	1027	92	200
SV.80.80.94.2.50H.S.xxx.G	578	356	8 x 20	935	260	110	220	1016	791	613	110	60.3	1017	82	240
SV.80.80.94.2.50H.S.xxx.R	578	356	8 x 20	935	220	95	160	932	739	561	81	48.3	1027	92	200
SV.80.80.120.2.50H.S.xxx.G	578	356	8 x 20	935	260	110	220	1016	791	613	110	60.3	1017	82	240
SV.80.80.120.2.50H.S.xxx.R	578	356	8 x 20	935	220	95	160	932	739	561	81	48.3	1027	92	200
S1.80.100.55.4.50H.S.xxx.G	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.55.4.50H.S.xxx.R	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.75.4.50H.S.xxx.G	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.75.4.50S.S.xxx.G	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.75.4.50H.S.xxx.R	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.75.4.50S.S.xxx.R	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.100.4.50H.S.xxx.G	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.100.4.50H.S.xxx.R	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.125.4.50H.S.xxx.G	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.80.100.125.4.50H.S.xxx.R	464	371	8 x 20	971	260	110	220	902	677	498	110	60.3	1101	130	240
S1.100.100.55.4.50M.S.xxx.G	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.100.100.55.4.50M.S.xxx.R	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.100.100.75.4.50M.S.xxx.G	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.100.100.75.4.50M.S.xxx.R	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.100.100.100.4.50M.S.xxx.G	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.100.100.100.4.50M.S.xxx.R	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240

Dimensions

Pump type	C	F	ZØ1	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
S1.100.100.125.4.50M.S.xxx.G	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.100.100.125.4.50M.S.xxx.R	489	373	8 x 20	990	260	110	220	927	702	525	110	60.3	1124	134	240
S1.80.200.75.4.50E.S.xxx.G	789	685	8 x 23	1045	430	200	535	1550	1181	852	170	88,0	1190	145	196
S1.80.200.75.4.50E.S.xxx.R	789	685	8 x 23	1045	540	600	460	1330	1028	699	150	88,0	1194	145	400
S1.80.200.100.4.50E.S.xxx.G	789	685	8 x 23	1045	430	200	535	1550	1181	852	170	88,0	1190	145	196
S1.80.200.100.4.50E.S.xxx.R	789	685	8 x 23	1045	540	600	460	1330	1028	699	150	88,0	1194	145	400
S1.80.200.125.4.50E.S.xxx.G	789	685	8 x 23	1045	430	200	535	1550	1181	852	170	88,0	1190	145	196
S1.80.200.125.4.50E.S.xxx.R	789	685	8 x 23	1045	540	600	460	1330	1028	699	150	88,0	1194	145	400

Pump type	Z13	Z14	Z15	Z16	Z17G	Z17S	ZDc1	ZDN1	ZDt1	ZL1	ZL2	ZM
SV.80.80.74.2.50H.S.xxx.G	-	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
SV.80.80.74.2.50H.S.xxx.R	50	13	171	345	3,0	3,0	160	80	21	354	80	4 x M16
SV.80.80.94.2.50H.S.xxx.G	-	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
SV.80.80.94.2.50H.S.xxx.R	50	13	171	345	3,0	3,0	160	80	21	354	80	4 x M16
SV.80.80.120.2.50H.S.xxx.G	-	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
SV.80.80.120.2.50H.S.xxx.R	50	13	171	345	3,0	3,0	160	80	21	354	80	4 x M16
S1.80.100.55.4.50H.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.55.4.50H.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.75.4.50H.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.75.4.50S.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.75.4.50H.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.75.4.50S.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.100.4.50H.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.100.4.50H.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.125.4.50H.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.100.125.4.50H.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.55.4.50M.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.55.4.50M.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.75.4.50M.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.75.4.50M.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.100.4.50M.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.100.4.50M.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.125.4.50M.S.xxx.G	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.100.100.125.4.50M.S.xxx.R	50	-	220	413	3,0	3,0	180	100	22	438	103	4 x M16
S1.80.200.75.4.50E.S.xxx.G	200	86	365	485	3,0	3,0	295	200	31	761	222	4 x M24
S1.80.200.75.4.50E.S.xxx.R	-	70	320	700	3,0	3,0	295	200	26	541	89	4 x M24
S1.80.200.100.4.50E.S.xxx.G	200	86	365	485	3,0	3,0	295	200	31	761	222	4 x M24
S1.80.200.100.4.50E.S.xxx.R	-	70	320	700	3,0	3,0	295	200	26	541	89	4 x M24
S1.80.200.125.4.50E.S.xxx.G	200	86	365	485	3,0	3,0	295	200	31	761	222	4 x M24
S1.80.200.125.4.50E.S.xxx.R	-	70	320	700	3,0	3,0	295	200	26	541	89	4 x M24

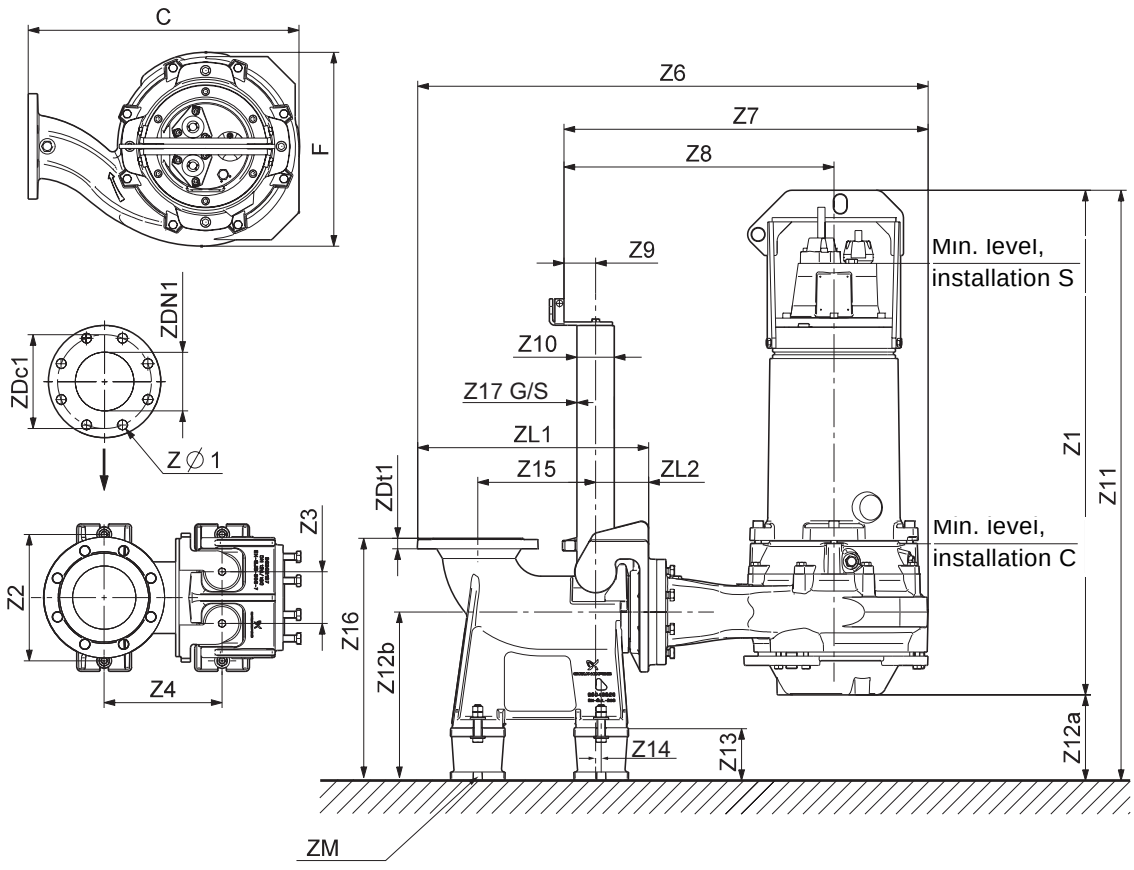


Fig. 18 Dimensional sketches, installation on auto-coupling system (2)

Note: Z12a is minimal recommended distance from pit bottom to bottom of pump suction side.
Z11 is total height of pump installed on Grundfos installation accessory in the pit. NOTE: This figure might not equal Z12a + Z1.

Dimensions

Pump type	C	F	ZØ1	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
S1.100.125.75.4.50L.S.xxx.G	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.75.4.50L.C.xxx.G	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.75.4.50L.S.xxx.Q	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.75.4.50L.C.xxx.Q	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.100.4.50L.S.xxx.G	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.100.4.50L.S.xxx.Q	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.100.4.50L.C.xxx.G	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.100.4.50L.C.xxx.Q	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.125.4.50L.C.xxx.G	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.125.4.50L.C.xxx.Q	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.125.4.50L.S.xxx.G	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400
S1.100.125.125.4.50L.S.xxx.Q	588	430	8 x 23	981	300	123	280	1159	845	637	110	88,0	1217	100	400

Pump type	Z13	Z14	Z15	Z16	Z17G	Z17S	ZDc1	ZDN1	ZDt1	ZL1	ZL2	ZM
S1.100.125.75.4.50L.S.xxx.G	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.75.4.50L.C.xxx.G	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.75.4.50L.S.xxx.Q	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.75.4.50L.C.xxx.Q	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.100.4.50L.S.xxx.G	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.100.4.50L.S.xxx.Q	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.100.4.50L.C.xxx.G	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.100.4.50L.C.xxx.Q	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.125.4.50L.C.xxx.G	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.125.4.50L.C.xxx.Q	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.125.4.50L.S.xxx.G	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16
S1.100.125.125.4.50L.S.xxx.Q	-	-	280	575	3.0	3.0	240	150	25	571	147	4 x M16

Installation on ring stand

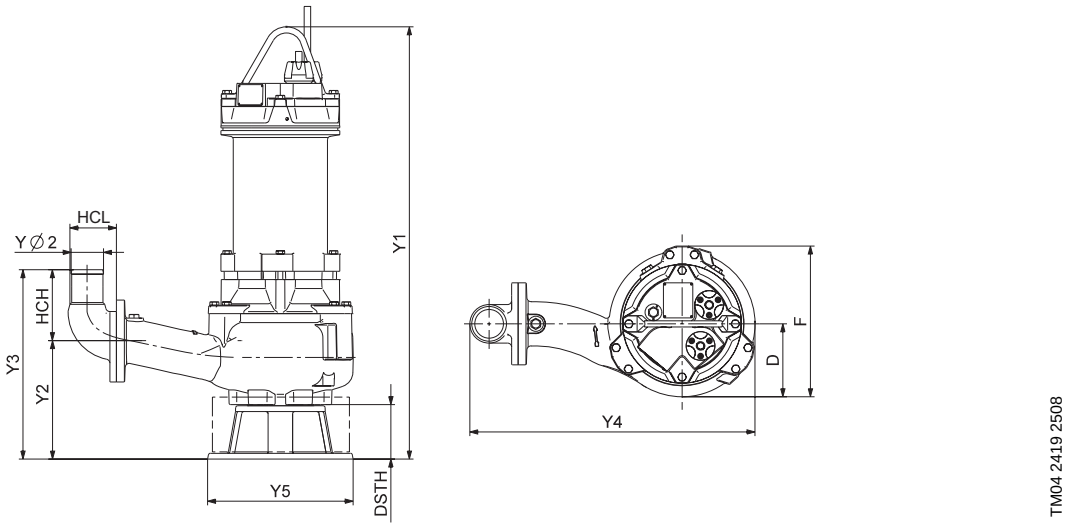


Fig. 19 Dimensional sketches, installation on ring stand

Pump type	YØ2	Y1	Y2	Y3	Y4	Y5	HCH	HCL	DSTH	D	F
SV.80.80.74.2.50H	79	1065	288	430	696	355	142	118	130	178	356
SV.80.80.120.2.50H	79	1065	288	430	696	355	142	118	130	178	356
S1.80.100.55.4.50H	105	1101	290	467	605	355	177	142	130	185	371
S1.80.100.75.4.50H	105	1101	290	467	605	355	177	142	130	185	371
S1.80.100.75.4.50S	105	1101	290	467	605	355	177	142	130	185	371
S1.80.100.100.4.50H	105	1101	290	467	605	355	177	142	130	185	371
S1.80.100.125.4.50H	105	1101	290	467	605	355	177	142	130	185	371
S1.100.100.55.4.50M	105	1176	342	487	679	450	145	142	186	186	373
S1.100.100.75.4.50M	105	1176	342	487	679	450	145	142	186	186	373
S1.100.100.100.4.50M	105	1176	342	487	679	450	145	142	186	186	373
S1.100.100.125.4.50M	105	1176	342	487	679	450	145	142	186	186	373
S1.100.125.75.4.50L	157	1167	350	630	894	450	280	289	186	241	430
S1.100.125.100.4.50L	157	1167	350	630	894	450	280	289	186	241	430
S1.100.125.125.4.50L	157	1167	350	630	894	450	280	289	186	241	430
S1.80.200.75.4.50E	205	1205	411	846	1153	550	435	418	160	395	685
S1.80.200.100.4.50E	205	1205	411	846	1153	550	435	418	160	395	685
S1.80.200.125.4.50E	205	1205	411	846	1153	550	435	418	160	395	685

Installation on base stand (dry, vertical)

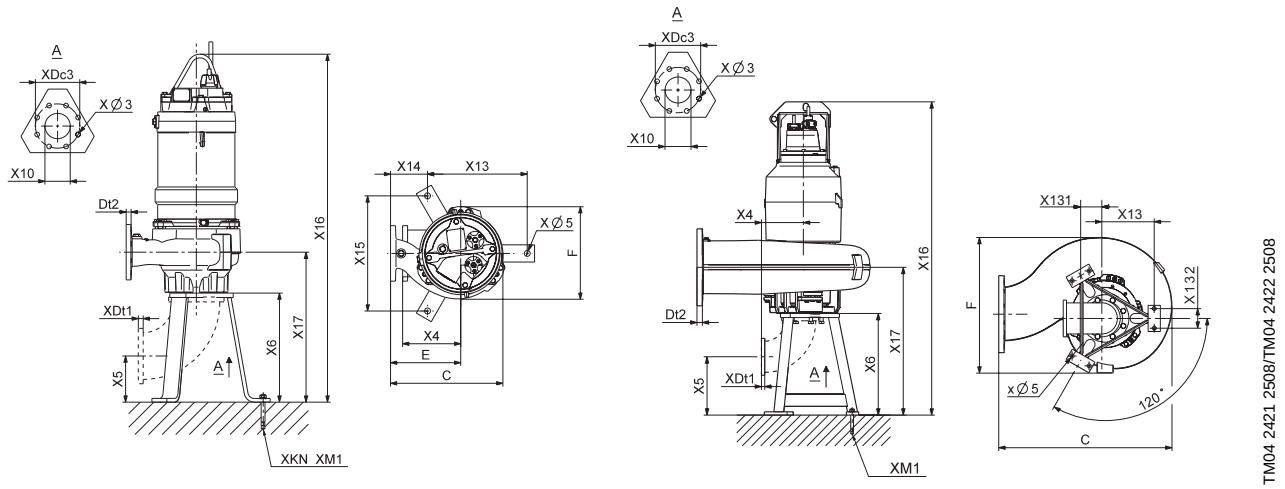


Fig. 20 Dimensional sketches, dry, vertical installation on base stand

Pump type	C	E	F	XØ3	XØ5	X4	X5	X6	X13	X131	X132	X14	X15	X16	X17	XDc3	XDt1	Dt2	XM1
SV.80.80.74.2.50H	578	400	356	19	24	150	293	443	405	135	-	265	468	1378	601	180	22	22	M20 x 3
SV.80.80.120.2.50H	578	400	356	19	24	150	293	443	405	135	-	265	468	1378	601	180	22	22	M20 x 3
S1.80.100.55.4.50H	464	285	371	19	24	150	293	443	405	135	-	150	468	1414	603	180	22	22	M20 x 3
S1.80.100.75.4.50H	464	285	371	19	24	150	293	443	405	135	-	150	468	1414	603	180	22	22	M20 x 3
S1.80.100.75.4.50S	464	285	371	19	24	150	293	443	405	135	-	150	468	1414	603	180	22	22	M20 x 3
S1.80.100.100.4.50H	464	285	371	19	24	150	293	443	405	135	-	150	468	1414	603	180	22	22	M20 x 3
S1.80.100.125.4.50H	464	285	371	19	24	150	293	443	405	135	-	150	468	1414	603	180	22	22	M20 x 3
S1.100.100.55.4.50M	489	312	373	24	24	200	421	621	440	140	120	172	520	1611	777	240	24	24	M20 x 6
S1.100.100.75.4.50M	489	312	373	24	24	200	421	621	440	140	120	172	520	1611	777	240	24	24	M20 x 6
S1.100.100.100.4.50M	489	312	373	24	24	200	421	621	440	140	120	172	520	1611	777	240	24	24	M20 x 6
S1.100.100.125.4.50M	489	312	373	24	24	200	421	621	440	140	120	172	520	1611	777	240	24	24	M20 x 6
S1.100.125.75.4.50L	588	380	430	24	24	200	421	621	440	140	120	240	520	1602	785	240	24	24	M20 x 6
S1.100.125.100.4.50L	588	380	430	24	24	200	421	621	440	140	120	240	520	1602	785	240	24	24	M20 x 6
S1.100.125.125.4.50L	588	380	430	24	24	200	421	621	440	140	120	240	520	1602	785	240	24	24	M20 x 6
S1.80.200.75.4.50E	789	460	685	24	24	250	469	719	520	170	120	290	606	1764	970	295	26	26	M20 x 6
S1.80.200.100.4.50E	789	460	685	24	24	250	469	719	520	170	120	290	606	1764	970	295	26	26	M20 x 6
S1.80.200.125.4.50E	789	460	685	24	24	250	469	719	520	170	120	290	606	1764	970	295	26	26	M20 x 6

Installation on base stand for dry, horisontal installation

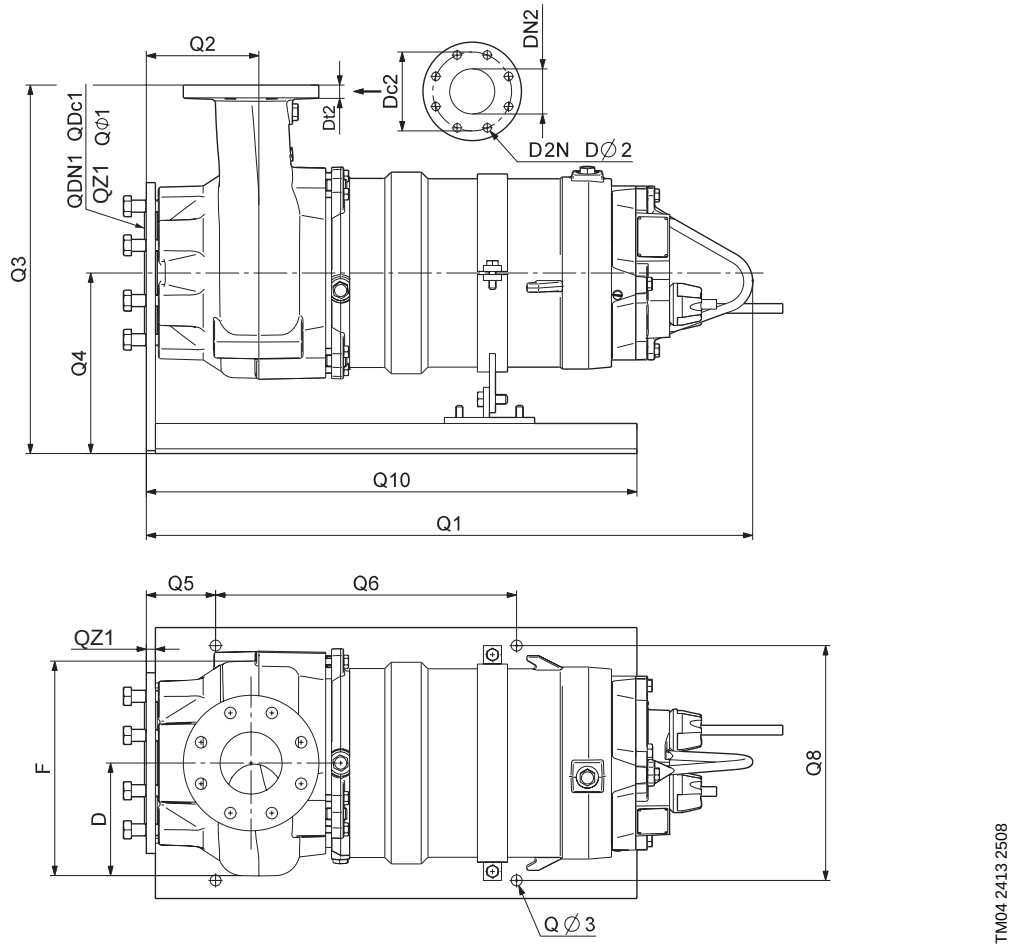
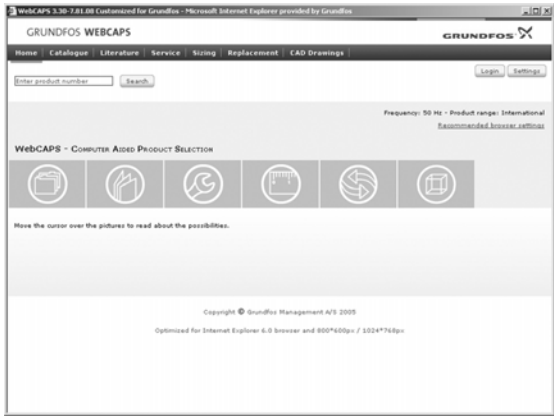


Fig. 21 Dimensional sketches, dry, horisontal installation on base stand

Pump type	D	F	QØ3	Q1	Q2	Q3	Q4	Q5	Q6	Q8	Q10	QDc1	QDN1	QØ1	QZ1	D2N	DØ2	Dc2	Dt2
SV.80.80.74.2.50H.H	178	356	18	953	176	700	300	115	500	390	815	180	100	M16	18	8	19	160	20
SV.80.80.120.2.50H.H	178	356	18	953	176	700	300	115	500	390	815	180	100	M16	18	8	19	160	20
S1.80.100.55.4.50H.H	185	371	18	989	178	585	300	115	500	390	815	180	100	M16	18	8	19	180	20
S1.80.100.75.4.50H.H	185	371	18	989	178	585	300	115	500	390	815	180	100	M16	18	8	19	180	20
S1.80.100.75.4.50S.H	185	371	18	989	178	585	300	115	500	390	815	180	100	M16	18	8	19	180	20
S1.80.100.100.4.50H.H	185	371	18	989	178	585	300	115	500	390	815	180	100	M16	18	8	19	180	20
S1.80.100.125.4.50H.H	185	371	18	989	178	585	300	115	500	390	815	180	100	M16	18	8	19	180	20
S1.100.100.55.4.50M.H	186	373	18	1008	174	612	300	115	500	390	815	240	150	M20	18	8	19	180	22
S1.100.100.75.4.50M.H	186	373	18	1008	174	612	300	115	500	390	815	240	150	M20	18	8	19	180	22
S1.100.100.100.4.50M.H	186	373	18	1008	174	612	300	115	500	390	815	240	150	M20	18	8	19	180	22
S1.100.100.125.4.50M.H	186	373	18	1008	174	612	300	115	500	390	815	240	150	M20	18	8	19	180	22
S1.100.125.75.4.50L.H	241	430	18	999	182	680	300	115	500	390	815	240	150	M20	18	8	19	210	25
S1.100.125.100.4.50L.H	241	430	18	999	182	680	300	115	500	390	815	240	150	M20	18	8	19	210	25
S1.100.125.125.4.50L.H	241	430	18	999	182	680	300	115	500	390	815	240	150	M20	18	8	19	210	25
S1.80.200.75.4.50E.H	395	685	18	1063	269	860	400	115	500	390	815	295	200	M20	18	8	24	295	26
S1.80.200.100.4.50E.H	395	685	18	1063	269	860	400	115	500	390	815	295	200	M20	18	8	24	295	26
S1.80.200.125.4.50E.H	395	685	18	1063	269	860	400	115	500	390	815	295	200	M20	18	8	24	295	26

Further product documentation

WebCAPS



WebCAPS is a **Web**-based **C**omputer **A**ided **P**roduct **S**election program available on www.grundfos.com.

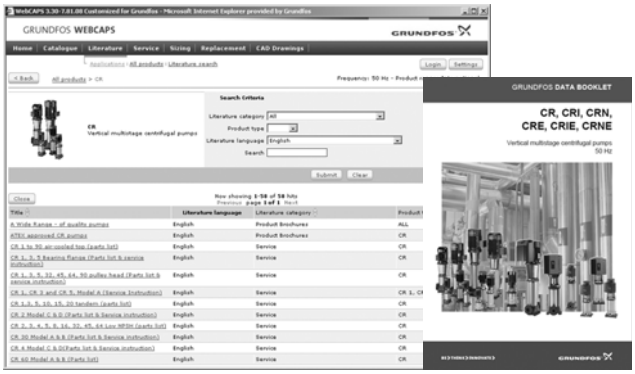
WebCAPS contains detailed information on more than 185,000 Grundfos products in more than 20 languages.

In WebCAPS, all information is divided into 6 sections:

- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.

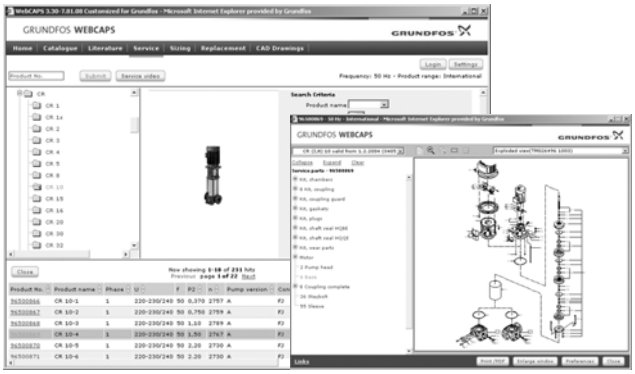
Catalogue

This section is based on fields of application and pump types, and contains
- technical data
- curves (QH, Eta, P1, P2, etc) which can be adapted to the density and viscosity of the pumped liquid and show the number of pumps in operation
- product photos
- dimensional drawings
- wiring diagrams
- quotation texts, etc.



Literature

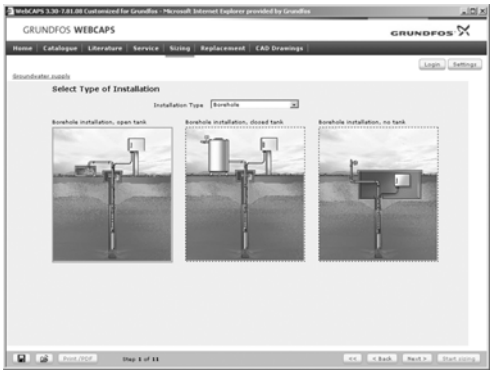
In this section you can access all the latest documents of a given pump, such as
- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures.



Service

This section contains an easy-to-use interactive service catalogue. Here you can find and identify service parts of both existing and discontinued Grundfos pumps.
Furthermore, this section contains service videos showing you how to replace service parts.

Further product documentation



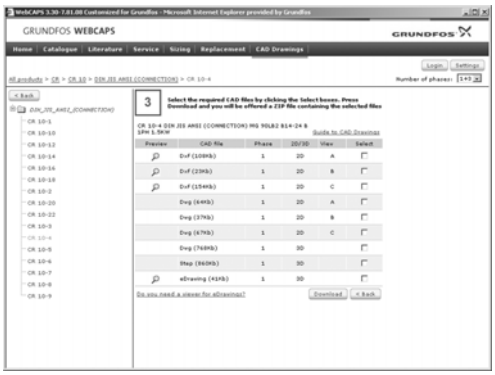
Sizing

This section is based on different fields of application and installation examples, and gives easy step-by-step instructions in how to
- select the most suitable and efficient pump for your installation
- carry out advanced calculations based on energy consumption, payback periods, load profiles, life cycle costs, etc.
- analyse your selected pump via the built-in life cycle cost tool
- determine the flow velocity in wastewater applications, etc.

Replacement

In this section you find a guide to selecting and comparing replacement data of an installed pump in order to replace the pump with a more efficient Grundfos pump.
The section contains replacement data of a wide range of pumps produced by other manufacturers than Grundfos.

Based on an easy step-by-step guide, you can compare Grundfos pumps with the one you have installed on your site. When you have specified the installed pump, the guide will suggest a number of Grundfos pumps which can improve both comfort and efficiency.



CAD drawings

In this section it is possible to download 2-dimensional (2D) and 3-dimensional (3D) CAD drawings of most Grundfos pumps.

These formats are available in WebCAPS:

2-dimensional drawings:
- .dxf, wireframe drawings
- .dwg, wireframe drawings.

3-dimensional drawings:
- .dwg, wireframe drawings (without surfaces)
- .stp, solid drawings (with surfaces)
- .eprt, E-drawings.

WinCAPS

Fig. 22 WinCAPS CD-ROM

WinCAPS is a **Win**dows-based **C**omputer **A**ided **P**roduct **S**election program containing detailed information on more than 185,000 Grundfos products in more than 20 languages.

The program contains the same features and functions as WebCAPS, but is an ideal solution if no Internet connection is available.

WinCAPS is available on CD-ROM and updated once a year.

96805705 0709	**GB**
Repl. 96805705 0309	

Subject to alterations.

GRUNDFOS A/S . DK-8850 Bjerringbro . Denmark
Telephone: +45 87 50 14 00

www.grundfos.com

GRUNDFOS