

SE/SL pumps

12 to 42 HP

60 Hz



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1. Introduction

This data booklet deals with Grundfos heavy-duty wastewater pumps called SE/SL, 12-42 hp.



TM05 3010 0812

Fig. 1 SE/SL pump

The 12-42 hp (9 to 31 kW) SE/SL pumps are a range of SuperVortex and S-tube impeller pumps specifically designed for pumping sewage and wastewater in a wide range of municipal, private and industrial applications.

SE pumps are equipped with an internal closed-loop cooling system, which enables them to be dry installed. SL pumps do not have a cooling system as they are used for submersible installations only.

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

The pumps are fitted with motors from 12 hp up to 42 hp (9 to 31 kW). The motors are either 2- or 4- pole motors, depending on the motor size.

The free passage in the pumps is 3" to 6.5" (80 to 110 mm).

The pumps are available for:

- freestanding submerged installation on ring stand
- submersible installation on auto-coupling with fully submerged motor
- submersible installation on auto-coupling with media above pump housing only
- pumps for vertical dry installation
- pumps for horizontal dry installation.

Applications

The SE/SL pumps are designed for applications such as:

- raw water intake systems
- wastewater treatment plants
- municipal pumping stations
- public buildings
- blocks of apartments
- 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 enables easy transportation to and installation on the installation site.

S-tube impeller



The S-tube impeller is the only impeller available in the wastewater market that does not compromise either efficiency or free passage through the pump.

The key to the S-tube design is simplicity, with no cutting or moving functions that can get worn over time, thereby ensuring constant, superior efficiency. The S-tube impeller is a tube-shaped channel impeller placed in a pump housing that matches the smooth tube shape leaving no obstructions or dead zones.

A unique balancing method of the impeller ensures minimum vibration in the pump, thus reducing the load on the shaft seal, shaft and bearings.

The S-tube impeller is a no-compromise solution providing free spherical passage through the impeller and pump housing, and creating a natural extension of the pipework connected to the pump. This ensures optimum hydraulic efficiency without compromising solids handling. The simple design means lower life cycle costs because abrasive wear is reduced and fewer clogging incidents occur.

Grundfos Blueflux®



Grundfos Blueflux® guarantees the highest motor efficiency from Grundfos. Every aspect of the technology driving a Grundfos Blueflux® motor has been developed to meet the actual needs of the application for which the pump system or solution is installed - and always with an emphasis on reliability and efficiency.

A pump system or solution with a Grundfos **Blueflux®** motor has a considerably higher total efficiency than comparable solutions and reduces life cycle costs substantially. The combination of motor technology, advanced pump design and speed control ensures superior system control, reduced day-to-day service costs and lower environmental impact.

Grundfos **Blueflux®** represents a range of skills and innovative processes that Grundfos brings to motor technology development. Grundfos was instrumental in the drafting and passing of the EuP Directive, setting the ecodesign requirements for electric motors in the European Union.

As a technological leader within high-efficiency motors, Grundfos was invited to help with the technical aspects of the legislation. Grundfos was able to create political awareness of the huge savings potential of variable speed motors and, at a later stage, influence the decision-makers to include variable-frequency drives in the new legislation. As a consequence, Europe's annual electricity consumption will be reduced by 5 % by 2020 - about ten times more than originally planned before Grundfos intervened.

The Grundfos **Blueflux®** label guarantees that the motor technology used is ahead of current market standards and either meets or exceeds legislative requirements for motor efficiency, where these apply.

Smartdesign



smartdesign

Smartdesign describes the functional design of our products that combines elegant appearance with smart features, created with customer needs in mind.

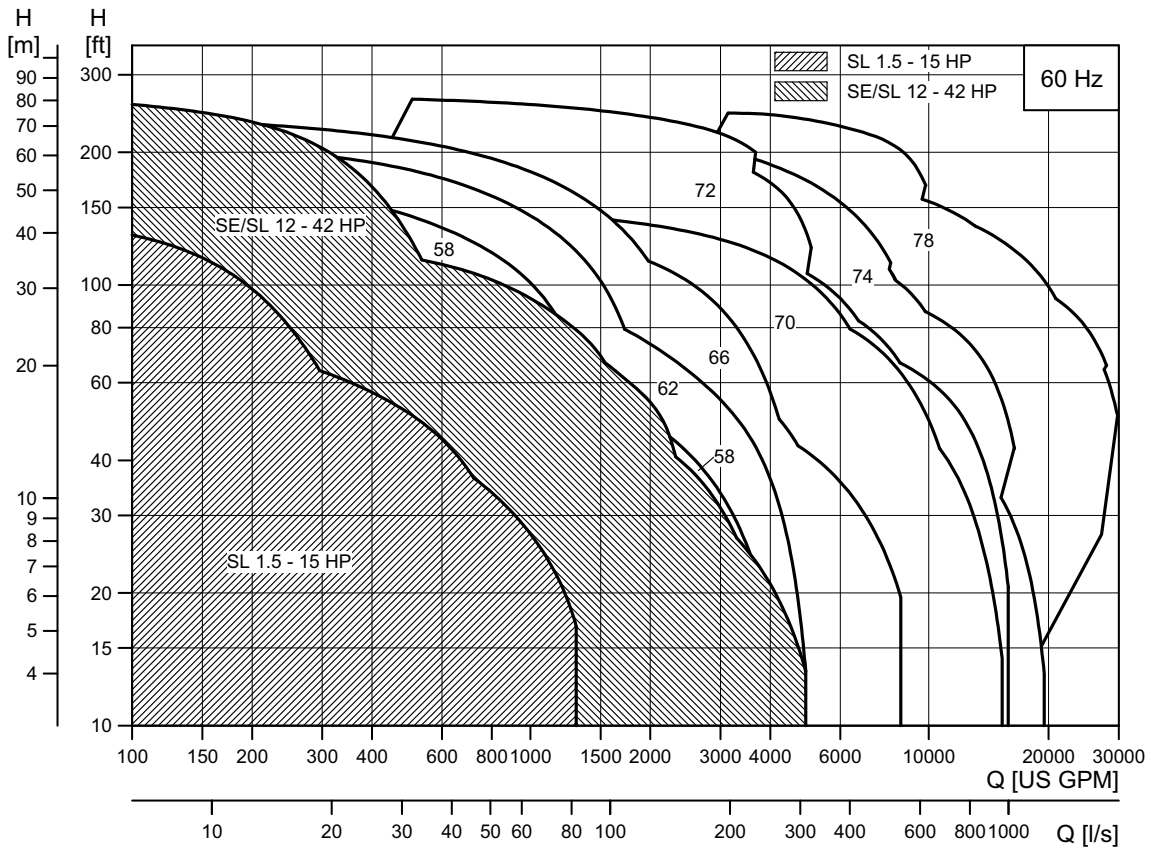
Smartdesign does not only look good; the design also makes installation, operation and maintenance of the product easier and more user-friendly.

The **smartdesign** features of our SE/SL pumps include:

- S-tube impeller
- shaft seal cartridge with double mechanical shaft seal system for reliable sealing between pumped liquid and motor
- leak-proof connections via the Grundfos SmartSeal gasket system
- watertight cable entry made of corrosion-resistant stainless steel
- moisture switch for continuous monitoring of motor housing and automatic cut-off of power in case liquid penetrates
- self-cleaning S-tube impeller with long vanes reducing the risk of jamming or clogging and high pumping efficiency or SuperVortex impeller with improved pumping efficiency and less downtime
- SmartTrim system allowing easy adjustment of impeller clearance and maintaining maximum pump efficiency over pump lifetime
- motor insulation class H [356 °F (180 °C)], enclosure class IP68 with three thermal sensors in stator windings
- explosion-proof motors for applications involving high risk of explosion

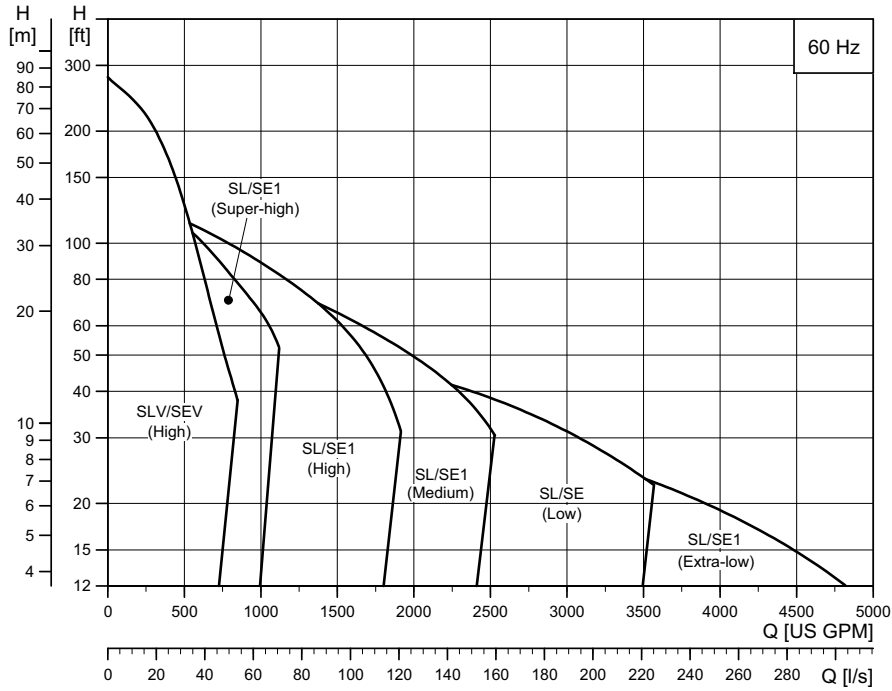
2. Performance range

Performance range, SE/SL and S pumps



TM05 4845 4514

Performance range, SE/SL pumps, 12-42 hp (9-31 kW)



TM05 4255 2112

Note: Low and extra-low pumps are pending release and unavailable.

List of pump curves

SuperVortex impeller

Pump type	Pressure range	Curve chart on page
SLV/SEV.30.A30.175.2.52H	High	35
SLV/SEV.30.A30.200.2.52H		36
SLV/SEV.30.A30.230.2.52H		37
SLV/SEV.30.A30.250.2.52H		38
SLV/SEV.30.A30.300.2.52H		39
SLV/SEV.30.A30.335.2.52H		40
SLV/SEV.30.A30.390.2.52H		41
SLV/SEV.30.A30.420.2.52H		42

S-tube impeller

Pump type	Pressure range	Curve chart on page
SL1/SE1.30.A40.175.2.52S	Super-high	43
SL1/SE1.30.A40.200.2.52S		44
SL1/SE1.30.A40.230.2.52S		45
SL1/SE1.30.A40.250.2.52S		46

Pump type	Pressure range	Curve chart on page	
SL1/SE1.30.A40.120.4.52H	High	47	
SL1/SE1.30.A40.150.4.52H		48	
SL1/SE1.30.A40.175.4.52H		49	
SL1/SE1.30.A40.200.4.52H		50	
SL1/SL1.35.A40.245.4.52H		51	
SL1/SL1.35.A40.270.4.52H		52	
SL1/SL1.35.A40.300.4.52H		53	
SL1/SL1.35.A40.330.4.52H		54	
SL1/SE1.30.A60.120.4.52H		55	
SL1/SE1.30.A60.150.4.52H		56	
SL1/SE1.30.A60.175.4.52H		57	
SL1/SE1.30.A60.200.4.52H		58	
SL1/SE1.35.A60.245.4.52H		59	
SL1/SE1.35.A60.270.4.52H		60	
SL1/SE1.35.A60.300.4.52H		61	
SL1/SE1.35.A60.330.4.52H		62	
SL1/SE1.40.A80.120.4.52M		Medium	63
SL1/SE1.40.A80.150.4.52M			64
SL1/SE1.40.A80.175.4.52M			65
SL1/SE1.40.A80.200.4.52M			66
SL1/SE1.45.A80.245.4.52M	67		
SL1/SE1.45.A80.270.4.52M	68		
SL1/SE1.45.A80.300.4.52M	69		
SL1/SE1.45.A80.330.4.52M	70		

3. Identification

Nameplate

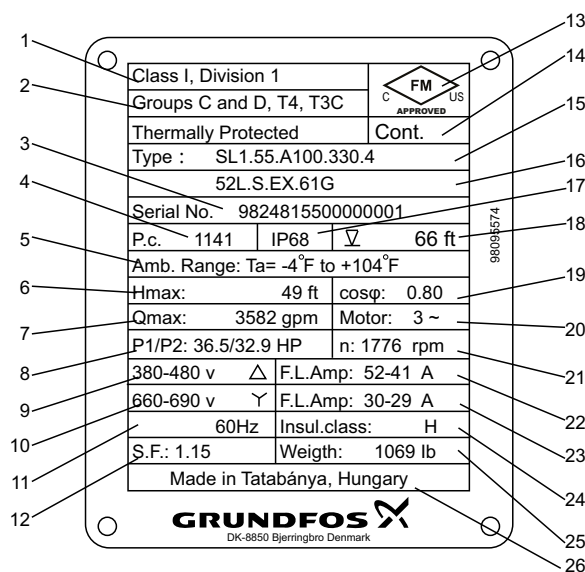


Fig. 2 Pump nameplate

TM06 6742 1314

Pos.	Description	Pos.	Description
1	Explosion protection classification	14	Cont.
2	Explosion protection classification	15	Type designation
3	Serial number	16	Type designation continued
4	Production code (YY/WW)	17	Enclosure class to IEC
5	Maximum ambient temperature range[°F]	18	Maximum installation depth
6	Maximum head [ft]	19	Power factor
7	Maximum flow rate [gpm]	20	Number of phases
8	Rated input/output power	21	Rated speed
9	Rated voltage, D	22	Full load current, D
10	Rated voltage, Y	23	Full load current, Y
11	Frequency [Hz]	24	Insulation class
12	Service factor	25	Weight
13	FM mark	26	Country of production

Type key

Code	Example	SE	1	.45	.A80	.270	.4	.52M	.C	.N	.6	1G
	Pump type:											
SE	Sewage pump with cooling jacket											
SL	Sewage pump without cooling jacket											
	Impeller type:											
1	S-tube impeller											
2	Dual S-tube impeller											
V	SuperVortex (free-flow) impeller											
	Pump free passage:											
	Maximum solids size = code number from type designation / 10 [inches]											
45	4.5" (110 mm)											
	Pump discharge:											
	Nominal diameter of pump discharge port = code number from type designation / 10 [inches]											
A80	8" (200 mm)											
	Output power, P2:											
	P2 = code number from type designation / 10 [hp]											
270	27 hp (20 kW)											
	Sensor version:											
[]	Standard pump											
A	Sensor version 1											
B	Sensor version 2											
	Number of poles:											
2	2-pole motor											
4	4-pole motor											
	Pump range/pressure:											
S	Super-high pressure											
H	High pressure											
M	Medium pressure											
	Installation:											
S	Submersible installation - without cooling jacket											
C	Submersible installation - with Cooling jacket											
D	Dry installation, vertical											
H	Dry installation, Horizontal.											
	Material code for impeller, pump and motor housing:											
[]	Cast iron pump housing, cast iron impeller, cast iron motor housing											
Q	Stainless steel (AISI 316) impeller, cast iron pump housing, cast iron motor housing											
	Pump version:											
N	Pump without FM approval											
Ex	Pump with FM approval											
	Frequency:											
6	60 Hz											
	Voltage:											
0S	3 x 208 V											
1R	3 x 230 V delta / 3 x 460 V star											
1G	3 x 380-480 V delta / 3 x 660-690 V star											
PTC	Thermistor											
[]	Thermal switch											
Z	Custom-built products											

* Only available on request. Contact Grundfos.

4. Selection of product

Ordering a pump

When ordering an SE/SL pump, 12-42 hp, you need to take the following four aspects into consideration:

- pump
- custom-built variation (option)
- accessories
- controller.

Pump

Use [Product range](#) on page 10 and [Type key](#) on page 8 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.
SE1.45.A80.270.4.52M.C.N.61G	98248031

- pump as specified in the type key
- 50 ft (15 m) cable
- paint: black, NCS S9000/N, thickness 150 µm
- three thermal switches, one in each phase, or three thermal sensors (PTC)
- 1 moisture switch and 1 leakage switch in standard pump
 - moisture switch in motor top cover
 - leakage switch in intermediate seal housing (SE install.) or in upper seal housing (SL install.)
- test according to ANSI-HI centrifugal pump test 11.6:2012 3B.

See [Performance curves and technical data](#) on page 35 for selection of a standard pump.

Note: Product data for the pump can also be seen in Grundfos product center using the product number 98248031.

Custom-built variants

The SE/SL pumps can be customized to meet individual requirements. Many pump features and options are available for customization, e.g. explosion-proof versions, various cable lengths or special materials.

Variants can be seen in [List of variants](#) on page 13. For requirements or designs not included in the list, please contact Grundfos.

Accessories

Depending on the installation type, you may need to order accessories. See [Accessories](#) on page 71 for selection of the correct accessories.

Note: Ordered accessories are not factory-fitted.

Controllers

The following controllers are available:

- Grundfos Dedicated Controls.

Grundfos Dedicated Control



TM06 6811 2316

Fig. 3 Grundfos Dedicated Controls

Grundfos Dedicated Controls is a control system designed for installation in either commercial buildings or municipal network pumping stations with one to six pumps.

As standard, the system is supplied with application-optimized software and can be configured to meet your specific pumping needs.

For further information about Grundfos Dedicated Controls, see page 28.

5. Product range

Standard range

SE pumps for dry or submerged installation

Pump type	Product number							Accessories			
	1G (3 x 380-480/ 660-690 V)	1R (3 x 230 V/ 460 V)	0S (3 x 208 V)	Cable length [ft (m)]	Pressure range	Poles	Free passage [in (mm)]	To be ordered separately			
								Vertical base stand	Auto coupling system		Transportable stand
							Guide Rails [3 in]	Guide Rails [2 in]			
SE1.30.A40.175.2.52S.C.N.6	-	99162132	99161916	49 (15)	S	2	3.0 (80)	96845469	-	97626238	97632278
SE1.30.A40.175.2.52S.H.N.6	-	99162133	99161917	49 (15)	S	2	3.0 (80)				
SE1.30.A40.200.2.52S.C.N.6	-	99162135	99161920	49 (15)	S	2	3.0 (80)	96845469	-	97626238	97632278
SE1.30.A40.200.2.52S.H.N.6	-	99162136	99161921	49 (15)	S	2	3.0 (80)				
SE1.30.A40.230.2.52S.C.N.6	-	99162138	99161923	49 (15)	S	2	3.0 (80)	96845469	-	97626238	97632278
SE1.30.A40.230.2.52S.H.N.6	-	99162139	99161924	49 (15)	S	2	3.0 (80)				
SE1.30.A40.250.2.52S.C.N.6	-	99162141	99161926	49 (15)	S	2	3.0 (80)	96845469	-	97626238	97632278
SE1.30.A40.250.2.52S.H.N.6	-	99162142	99161927	49 (15)	S	2	3.0 (80)				
SE1.30.A40.120.4.52H.C.N.6	-	99162052	99161814	49 (15)	H	4	3.0 (80)	96308238	-	97626238	97632278
SE1.30.A40.120.4.52H.H.N.6	-	99162053	99161815	49 (15)	H	4	3.0 (80)				
SE1.30.A40.150.4.52H.C.N.6	-	99162055	99161817	49 (15)	H	4	3.0 (80)	96308238	-	97626238	97632278
SE1.30.A40.150.4.52H.H.N.6	-	99162056	99161819	49 (15)	H	4	3.0 (80)				
SE1.30.A40.175.4.52H.C.N.6	-	99162058	99161833	49 (15)	H	4	3.0 (80)	96308238	-	97626238	97632278
SE1.30.A40.175.4.52H.H.N.6	-	99162060	99161834	49 (15)	H	4	3.0 (80)				
SE1.30.A40.200.4.52H.C.N.6	-	99162062	99161836	49 (15)	H	4	3.0 (80)	96308238	-	97626238	97632278
SE1.30.A40.200.4.52H.H.N.6	-	99162063	99161837	49 (15)	H	4	3.0 (80)				
SE1.35.A40.245.4.52H.C.N.6	-	99162065	99161839	49 (15)	H	4	3.5 (85)	96308238	-	97626238	97632278
SE1.35.A40.245.4.52H.H.N.6	-	99162066	99161841	49 (15)	H	4	3.5 (85)				
SE1.35.A40.270.4.52H.C.N.6	-	99162068	99161843	49 (15)	H	4	3.5 (85)	96308238	-	97626238	97632278
SE1.35.A40.270.4.52H.H.N.6	-	99162069	99161844	49 (15)	H	4	3.5 (85)				
SE1.35.A40.300.4.52H.C.N.6	-	99162071	99161846	49 (15)	H	4	3.5 (85)	96308238	-	97626238	97632278
SE1.35.A40.300.4.52H.H.N.6	-	99162072	99161847	49 (15)	H	4	3.5 (85)				
SE1.35.A40.330.4.52H.C.N.6	-	99162084	99161851	49 (15)	H	4	3.5 (85)	96308238	-	97626238	97632278
SE1.35.A40.330.4.52H.H.N.6	-	99162085	99161852	49 (15)	H	4	3.5 (85)				
SE1.30.A60.120.4.52H.C.N.6	-	99162027	99161753	49 (15)	H	4	3.0 (80)	96308238	97699099	97626240	97632372
SE1.30.A60.120.4.52H.H.N.6	-	99162028	99161754	49 (15)	H	4	3.0 (80)				
SE1.30.A60.150.4.52H.C.N.6	-	99162030	99161757	49 (15)	H	4	3.0 (80)	96308238	97699099	97626240	97632372
SE1.30.A60.150.4.52H.H.N.6	-	99162031	99161758	49 (15)	H	4	3.0 (80)				
SE1.30.A60.175.4.52H.C.N.6	-	99162033	99161760	49 (15)	H	4	3.0 (80)	96308238	97699099	97626240	97632372
SE1.30.A60.175.4.52H.H.N.6	-	99162034	99161761	49 (15)	H	4	3.0 (80)				
SE1.30.A60.200.4.52H.C.N.6	-	99162036	99161763	49 (15)	H	4	3.0 (80)	96308238	97699099	97626240	97632372
SE1.30.A60.200.4.52H.H.N.6	-	99162037	99161765	49 (15)	H	4	3.0 (80)				
SE1.35.A60.245.4.52H.C.N.6	-	99162039	99161768	49 (15)	H	4	3.5 (85)	96308238	97699099	97626240	97632372
SE1.35.A60.245.4.52H.H.N.6	-	99162040	99161769	49 (15)	H	4	3.5 (85)				
SE1.35.A60.270.4.52H.C.N.6	-	99162043	99161771	49 (15)	H	4	3.5 (85)	96308238	97699099	97626240	97632372
SE1.35.A60.270.4.52H.H.N.6	-	99162044	99161772	49 (15)	H	4	3.5 (85)				
SE1.35.A60.300.4.52H.C.N.6	-	99162046	99161775	49 (15)	H	4	3.5 (85)	96308238	97699099	97626240	97632372
SE1.35.A60.300.4.52H.H.N.6	-	99162047	99161777	49 (15)	H	4	3.5 (85)				
SE1.35.A60.330.4.52H.C.N.6	-	99162049	99161779	49 (15)	H	4	3.5 (85)	96308238	97699099	97626240	97632372
SE1.35.A60.330.4.52H.H.N.6	-	99162050	99161780	49 (15)	H	4	3.5 (85)				
SE1.40.A80.120.4.52M.C.N.6	-	99162108	99161877	49 (15)	M	4	4.0 (105)	96094523	97506541	-	96789480
SE1.40.A80.120.4.52M.H.N.6	-	99162109	99161878	49 (15)	M	4	4.0 (105)				
SE1.40.A80.150.4.52M.C.N.6	-	99162111	99161880	49 (15)	M	4	4.0 (105)	96094523	97506541	-	96789480
SE1.40.A80.150.4.52M.H.N.6	-	99162112	99161881	49 (15)	M	4	4.0 (105)				
SE1.40.A80.175.4.52M.C.N.6	-	99162114	99161883	49 (15)	M	4	4.0 (105)	96094523	97506541	-	96789480
SE1.40.A80.175.4.52M.H.N.6	-	99162115	99161884	49 (15)	M	4	4.0 (105)				
SE1.40.A80.200.4.52M.C.N.6	-	99162117	99161887	49 (15)	M	4	4.0 (105)	96094523	97506541	-	96789480
SE1.40.A80.200.4.52M.H.N.6	-	99162118	99161888	49 (15)	M	4	4.0 (105)				
SE1.45.A80.245.4.52M.C.N.6	-	99162120	99161890	49 (15)	M	4	4.5 (110)	96094523	97506541	-	96789480
SE1.45.A80.245.4.52M.H.N.6	-	99162121	99161892	49 (15)	M	4	4.5 (110)				
SE1.45.A80.270.4.52M.C.N.6	-	99162123	99161894	49 (15)	M	4	4.5 (110)	96094523	97506541	-	96789480
SE1.45.A80.270.4.52M.H.N.6	-	99162124	99161895	49 (15)	M	4	4.5 (110)				
SE1.45.A80.300.4.52M.C.N.6	-	99162126	99161897	49 (15)	M	4	4.5 (110)	96094523	97506541	-	96789480
SE1.45.A80.300.4.52M.H.N.6	-	99162127	99161898	49 (15)	M	4	4.5 (110)				
SE1.45.A80.330.4.52M.C.N.6	-	99162129	99161902	49 (15)	M	4	4.5 (110)	96094523	97506541	-	96789480
SE1.45.A80.330.4.52M.H.N.6	-	99162130	99161914	49 (15)	M	4	4.5 (110)				

Note: The horizontal base stand is included in the pump product number (Do not order separately).

SEV pumps for dry or submerged installation

Pump type	Product number				Cable length [ft (m)]	Pressure range	Poles	Free passage [in (mm)]	Accessories		
	1G (3 x 380-480/ 660-690 V)	1R (3 x 230 V/ 460 V)	0S (3 x 208 V)	To be ordered separately							
				Vertical base stand					Auto coupling system	Transportable stand	
SEV.30.A30.175.2.52H.C.N.6	-	99162088	99161854	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.175.2.52H.H.N.6	-	99162089	99161855	49 (15)	H	2	3.0 (80)				
SEV.30.A30.200.2.52H.C.N.6	-	99162091	99161857	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.200.2.52H.H.N.6	-	99162092	99161859	49 (15)	H	2	3.0 (80)				
SEV.30.A30.230.2.52H.C.N.6	-	99162094	99161862	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.230.2.52H.H.N.6	-	99162095	99161863	49 (15)	H	2	3.0 (80)				
SEV.30.A30.250.2.52H.C.N.6	-	99162098	99161865	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.250.2.52H.H.N.6	-	99162099	99161866	49 (15)	H	2	3.0 (80)				
SEV.30.A30.300.2.52H.C.N.6	-	99162101	99161868	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.300.2.52H.H.N.6	-	99162102	99161869	49 (15)	H	2	3.0 (80)				
SEV.30.A30.335.2.52H.C.N.6	-	99162104	99161871	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.335.2.52H.H.N.6	-	99162106	99161872	49 (15)	H	2	3.0 (80)				
SEV.30.A30.390.2.52H.C.N.6	98249186	-	-	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.390.2.52H.H.N.6	98249187	-	-	49 (15)	H	2	3.0 (80)				
SEV.30.A30.420.2.52H.C.N.6	98248082	-	-	49 (15)	H	2	3.0 (80)	96845469	97626239	97632229	
SEV.30.A30.420.2.52H.H.N.6	98248083	-	-	49 (15)	H	2	3.0 (80)				

Note: The horizontal base stand is included in the pump product number (Do not order separately).

SL1 pumps for submerged installation

Pump type	Product number				Cable length [ft (m)]	Pressure range	Poles	Free passage [in (mm)]	Accessories		
	1G (3 x 380-480/ 660-690 V)	1R (3 x 230 V/ 460 V)	0S (3 x 208 V)	To be ordered separately							
				Auto coupling system					Transportable stand		
								Guide Rails [3 in]	Guide Rails [2 in]		
SL1.30.A40.175.2.52S.S.N.6	-	99162131	99161915	49 (15)	S	2	3.0 (80)	-	97626238	97632278	
SL1.30.A40.200.2.52S.S.N.6	-	99162134	99161918	49 (15)	S	2	3.0 (80)	-	97626238	97632278	
SL1.30.A40.230.2.52S.S.N.6	-	99162137	99161922	49 (15)	S	2	3.0 (80)	-	97626238	97632278	
SL1.30.A40.250.2.52S.S.N.6	-	99162140	99161925	49 (15)	S	2	3.0 (80)	-	97626238	97632278	
SL1.30.A40.120.4.52H.S.N.6	-	99162051	99161813	49 (15)	H	4	3.0 (80)	-	97626238	97632278	
SL1.30.A40.150.4.52H.S.N.6	-	99162054	99161816	49 (15)	H	4	3.0 (80)	-	97626238	97632278	
SL1.30.A40.175.4.52H.S.N.6	-	99162057	99161822	49 (15)	H	4	3.0 (80)	-	97626238	97632278	
SL1.30.A40.200.4.52H.S.N.6	-	99162061	99161835	49 (15)	H	4	3.0 (80)	-	97626238	97632278	
SL1.35.A40.245.4.52H.S.N.6	-	99162064	99161838	49 (15)	H	4	3.5 (85)	-	97626238	97632278	
SL1.35.A40.270.4.52H.S.N.6	-	99162067	99161842	49 (15)	H	4	3.5 (85)	-	97626238	97632278	
SL1.35.A40.300.4.52H.S.N.6	-	99162070	99161845	49 (15)	H	4	3.5 (85)	-	97626238	97632278	
SL1.35.A40.330.4.52H.S.N.6	-	99162083	99161850	49 (15)	H	4	3.5 (85)	-	97626238	97632278	
SL1.30.A60.120.4.52H.S.N.6	-	99162025	99161741	49 (15)	H	4	3.0 (80)	97699099	97626240	97632372	
SL1.30.A60.150.4.52H.S.N.6	-	99162029	99161755	49 (15)	H	4	3.0 (80)	97699099	97626240	97632372	
SL1.30.A60.175.4.52H.S.N.6	-	99162032	99161759	49 (15)	H	4	3.0 (80)	97699099	97626240	97632372	
SL1.30.A60.200.4.52H.S.N.6	-	99162035	99161762	49 (15)	H	4	3.0 (80)	97699099	97626240	97632372	
SL1.35.A60.245.4.52H.S.N.6	-	99162038	99161766	49 (15)	H	4	3.5 (85)	97699099	97626240	97632372	
SL1.35.A60.270.4.52H.S.N.6	-	99162041	99161770	49 (15)	H	4	3.5 (85)	97699099	97626240	97632372	
SL1.35.A60.300.4.52H.S.N.6	-	99162045	99161774	49 (15)	H	4	3.5 (85)	97699099	97626240	97632372	
SL1.35.A60.330.4.52H.S.N.6	-	99162048	99161778	49 (15)	H	4	3.5 (85)	97699099	97626240	97632372	
SL1.40.A80.120.4.52M.S.N.6	-	99162107	99161876	49 (15)	M	4	4.0 (105)	97506541	-	96789480	
SL1.40.A80.150.4.52M.S.N.6	-	99162110	99161879	49 (15)	M	4	4.0 (105)	97506541	-	96789480	
SL1.40.A80.175.4.52M.S.N.6	-	99162113	99161882	49 (15)	M	4	4.0 (105)	97506541	-	96789480	
SL1.40.A80.200.4.52M.S.N.6	-	99162116	99161885	49 (15)	M	4	4.0 (105)	97506541	-	96789480	
SL1.45.A80.245.4.52M.S.N.6	-	99162119	99161889	49 (15)	M	4	4.5 (110)	97506541	-	96789480	
SL1.45.A80.270.4.52M.S.N.6	-	99162122	99161893	49 (15)	M	4	4.5 (110)	97506541	-	96789480	
SL1.45.A80.300.4.52M.S.N.6	-	99162125	99161896	49 (15)	M	4	4.5 (110)	97506541	-	96789480	
SL1.45.A80.330.4.52M.S.N.6	-	99162128	99161901	49 (15)	M	4	4.5 (110)	97506541	-	96789480	

SLV pumps for submerged installation

Pump type	Product number			Cable length [ft (m)]	Pressure range	Poles	Free passage [in (mm)]	Accessories	
	1G (3 x 380-480/ 660-690 V)	1R (3 x 230 V/ 460 V)	0S (3 x 208 V)					To be ordered separately	
								Auto coupling system	Transportable stand
SLV.30.A30.175.2.52H.S.N.6	-	99162086	99161853	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.200.2.52H.S.N.6	-	99162090	99161856	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.230.2.52H.S.N.6	-	99162093	99161861	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.250.2.52H.S.N.6	-	99162097	99161864	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.300.2.52H.S.N.6	-	99162100	99161867	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.335.2.52H.S.N.6	-	99162103	99161870	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.390.2.52H.S.N.6	98249185	-	-	49 (15)	H	2	3.0 (80)	97626239	97632229
SLV.30.A30.420.2.52H.S.N.6	98248080	-	-	49 (15)	H	2	3.0 (80)	97626239	97632229

6. Variants

List of variants

Motor		
Various cable lengths	Length of cable is depending on motor size and main supply.	33 ft (10 m)
		49 ft (15 m)
		82 ft (25 m)
		98 ft (30 m)
		164 ft (50 m)
EMC power cables	Screened power cables for variable speed drives Length of cable is depending on motor size and main supply. See notification on ECM cables, see section Product description on page 26.	33 ft (10 m)
		49 ft (15 m)
		82 ft (25 m)
		98 ft (30 m)
Special motor	Special voltage available on request	Contact Grundfos
PTC thermistors in windings		
Motor protection		
Thermal switch / PTC + moisture switch		Standard
Thermal switch / PTC + moisture switch + PT1000		Sensor ver. 1
Thermal switch / PTC + moisture switch + PT1000 + PSV3 + SM 113 and IO 113		Sensor ver. 2
Thermal switch / PTC + moisture switch		Standard EX. ver.
Thermal switch / PTC + moisture switch + PT1000 + SM 113 and IO 113		Sensor EX ver. 1
Thermal switch / PTC + moisture switch + PT1000 + PSV3 + SM 113 and IO 113		Sensor EX ver. 2
Tests		
Test at specified duty on standard impeller curve	Contact Grundfos	
Trimmed impeller for specified duty test	(Only SuperVortex impellers) Contact Grundfos	
Additional test of entire QH curve (incl. report)	5-10 flows from pump performance curve	
Different test standard	Efficiency guaranteed by Grundfos	ANSI HI 11.6:2012 grade 3B
		ANSI HI 11.6:2012 grade 2B
Vibration test (incl. report)	According to Grundfos factory quality standard	
Performance test on dry test stand	Contact Grundfos	
Hydrostatic test	Contact Grundfos	
NPSHr test	Contact Grundfos	
String test	Contact Grundfos	
Witness test	Contact Grundfos	
Note: For customised duty point or other grades with 5 point test certificate, please contact to Grundfos in order to agree on terms before ordering.		
Certificates		
ATEX-approved pump report	Special Grundfos report. Contact Grundfos	
Certificate of compliance with order	According to EN10204 2.1	According to HI 11.6:2012 3B
Pump certificate	According to EN10204 2.2	According to HI 11.6:2012 3B
Inspection certificate	According to EN10204 3.1	According to HI 11.6:2012 3B
Material specification report	According to EN10204 3.1B	
Material report with certificate	According to EN10204 3.2	Material supplier information
Inspection certificate, Lloyds Register	According to EN10204 3.2	
Inspection certificate, DNV (Det Norske Veritas)	According to EN10204 3.2	
Inspection certificate, Germanischer Lloyd	According to EN10204 3.2	
Inspection certificate, American Bureau of Shipping	According to EN10204 3.2	
Inspection certificate, Bureau Veritas	According to EN10204 3.2	
Registro Italiano Navale Agenture	According to EN10204 3.2	
Other third-party test certificates	Contact Grundfos	

Miscellaneous

FKM sealing (optional)	<ul style="list-style-type: none"> Resistant to acids resistant to mineral oils and vegetable oils resistant to most solvents (toluene, petrol, trichloroethylene etc.). 	Contact Grundfos
Cable protection hose	<ul style="list-style-type: none"> Resistant to acids resistant to most oils resistant to most solvents etc. 	Contact Grundfos
Aluminium anodes	<ul style="list-style-type: none"> Increased life of pumps in aggressive environments such as maritime applications increased corrosion resistance. 	Contact Grundfos
Ceramic coating of impeller and pump housing	<ul style="list-style-type: none"> Reduced wear rate of cast iron parts increased corrosion resistance beneficial in case of low number of operating hours. 	Contact Grundfos
Extra epoxy coating, 300 µm	<ul style="list-style-type: none"> Increased corrosion resistance. 	Contact Grundfos
Top coating (black RAL9005, red RAL 3000 and other colors)		Contact Grundfos
Special packaging		Contact Grundfos
Special nameplate		Contact Grundfos
Other variants		Contact Grundfos

7. Construction

Sectional drawings, motors

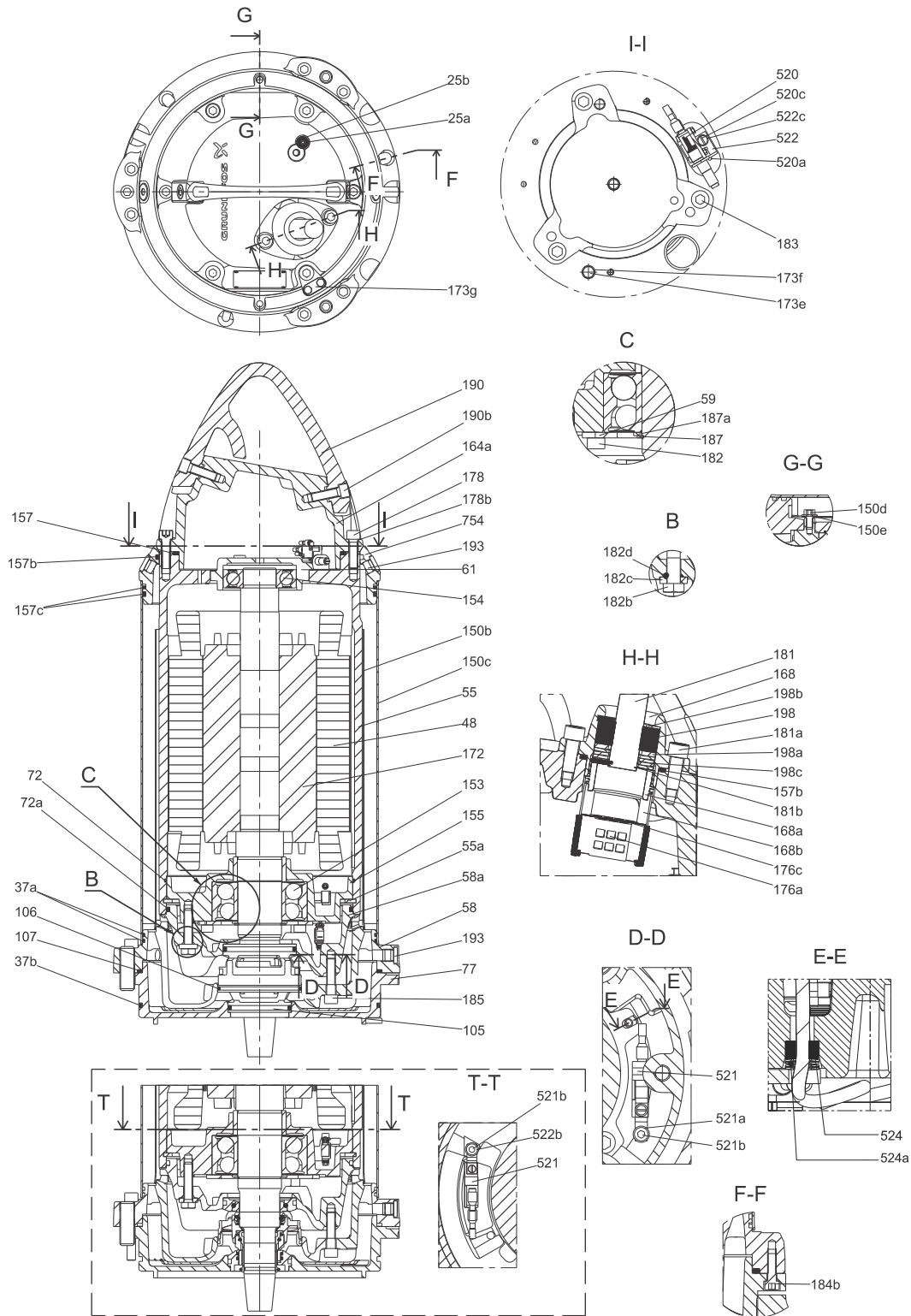


Fig. 4 SE pump, with cooling jacket

TM05 34503516

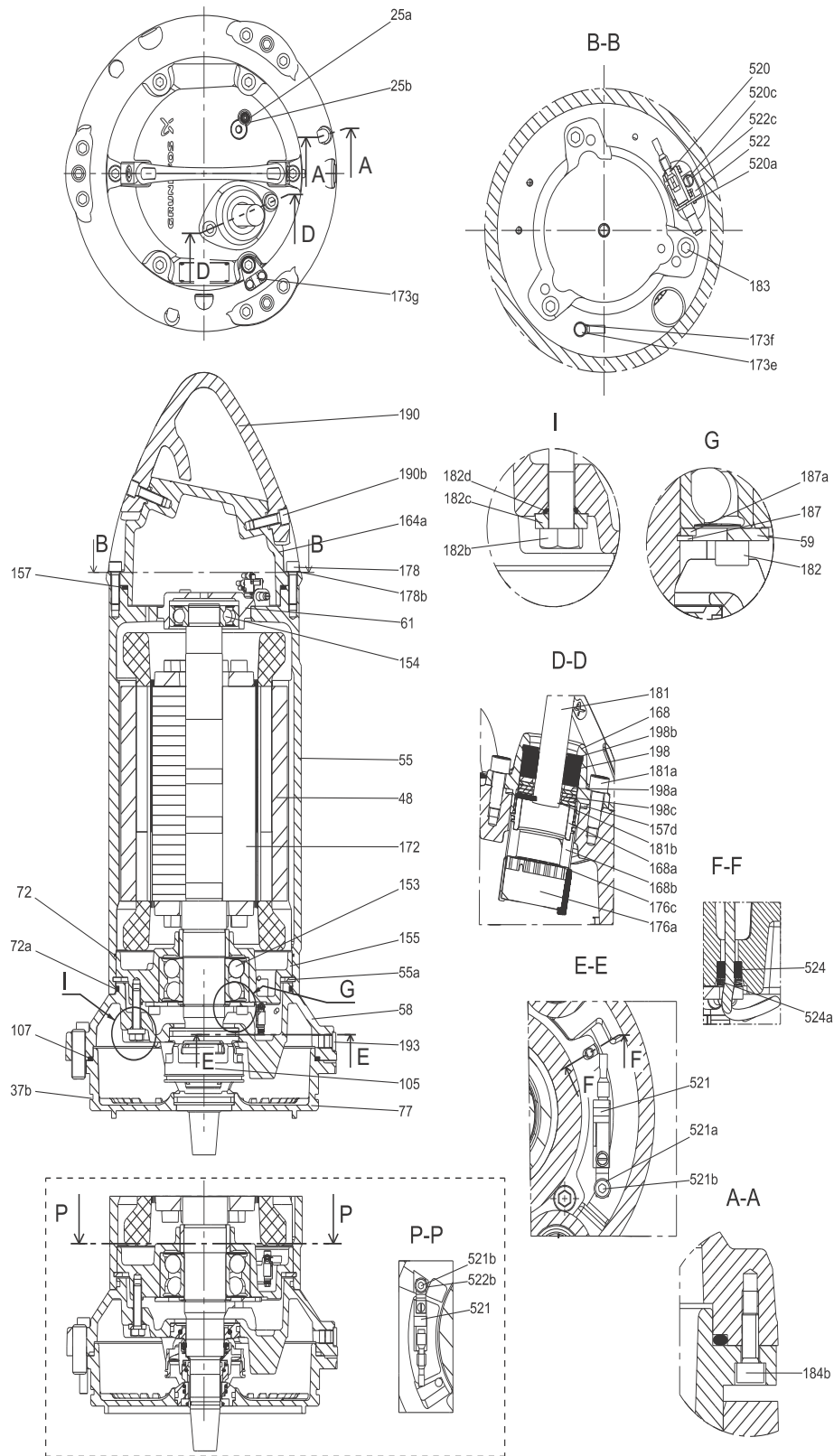


Fig. 5 SL pump without cooling jacket

TM05 3452 3516

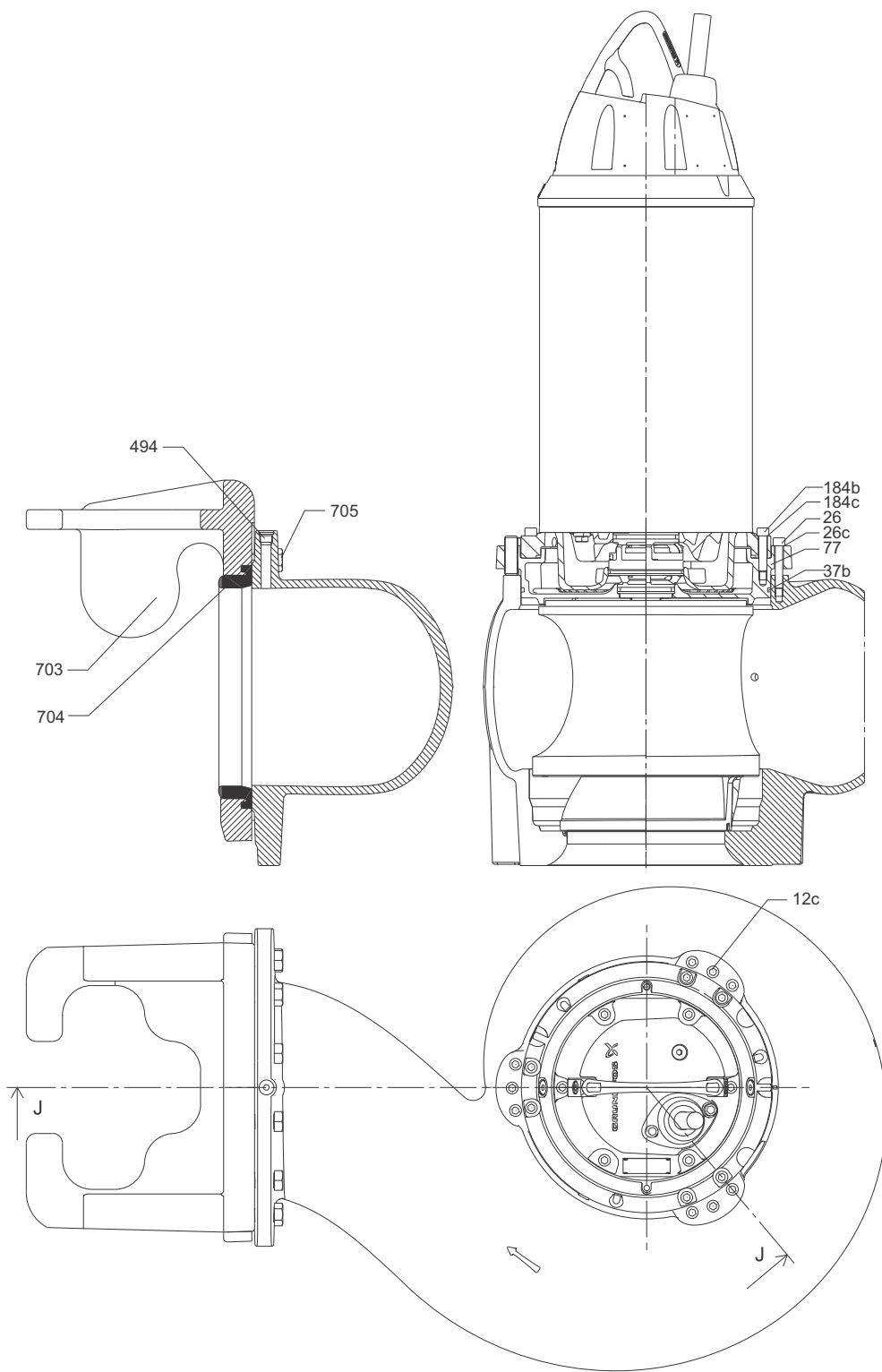


Fig. 6 SE pump

TM05 3483 3516

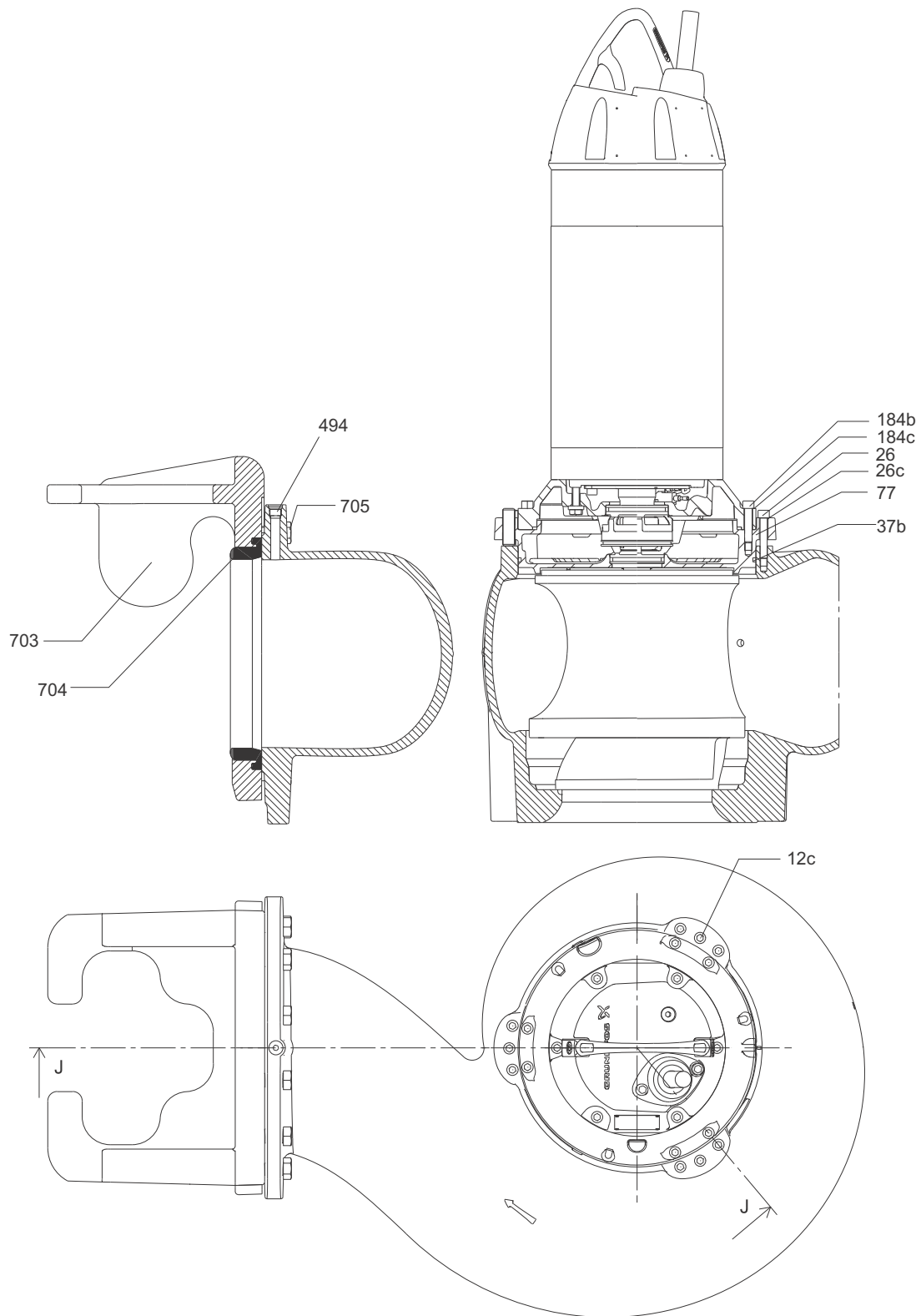


Fig. 7 SL pump

TM05 3484 3516

Sectional drawings, pumps

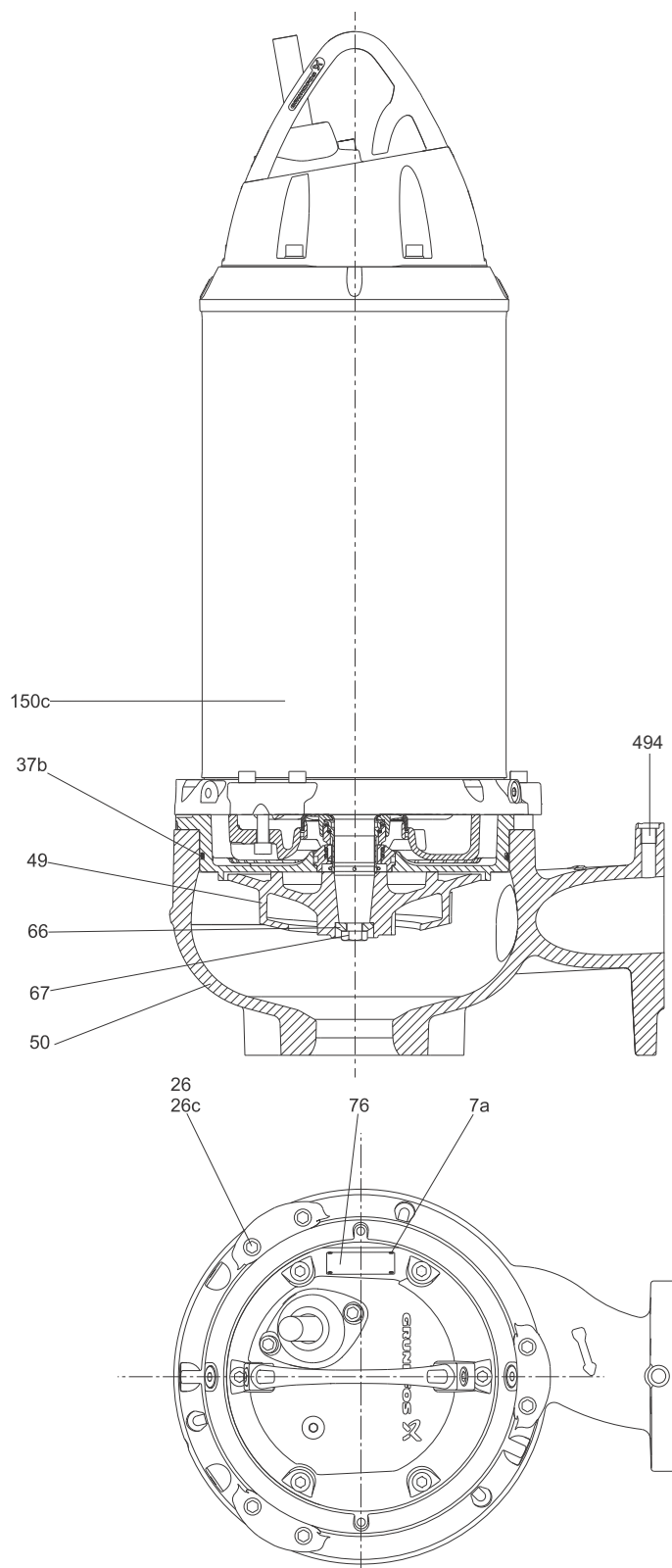


Fig. 8 SE/SL pump, with Vortex impeller

TM05 2785 3516

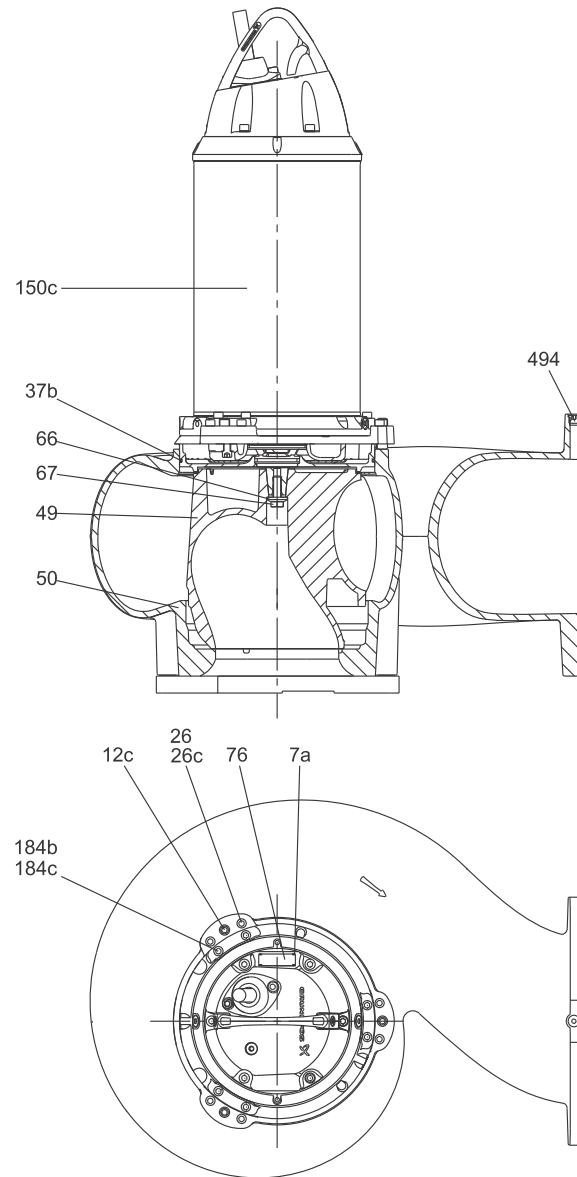


Fig. 9 SE/SL pump, with S-tube[®] impeller

TM05 2784 3516

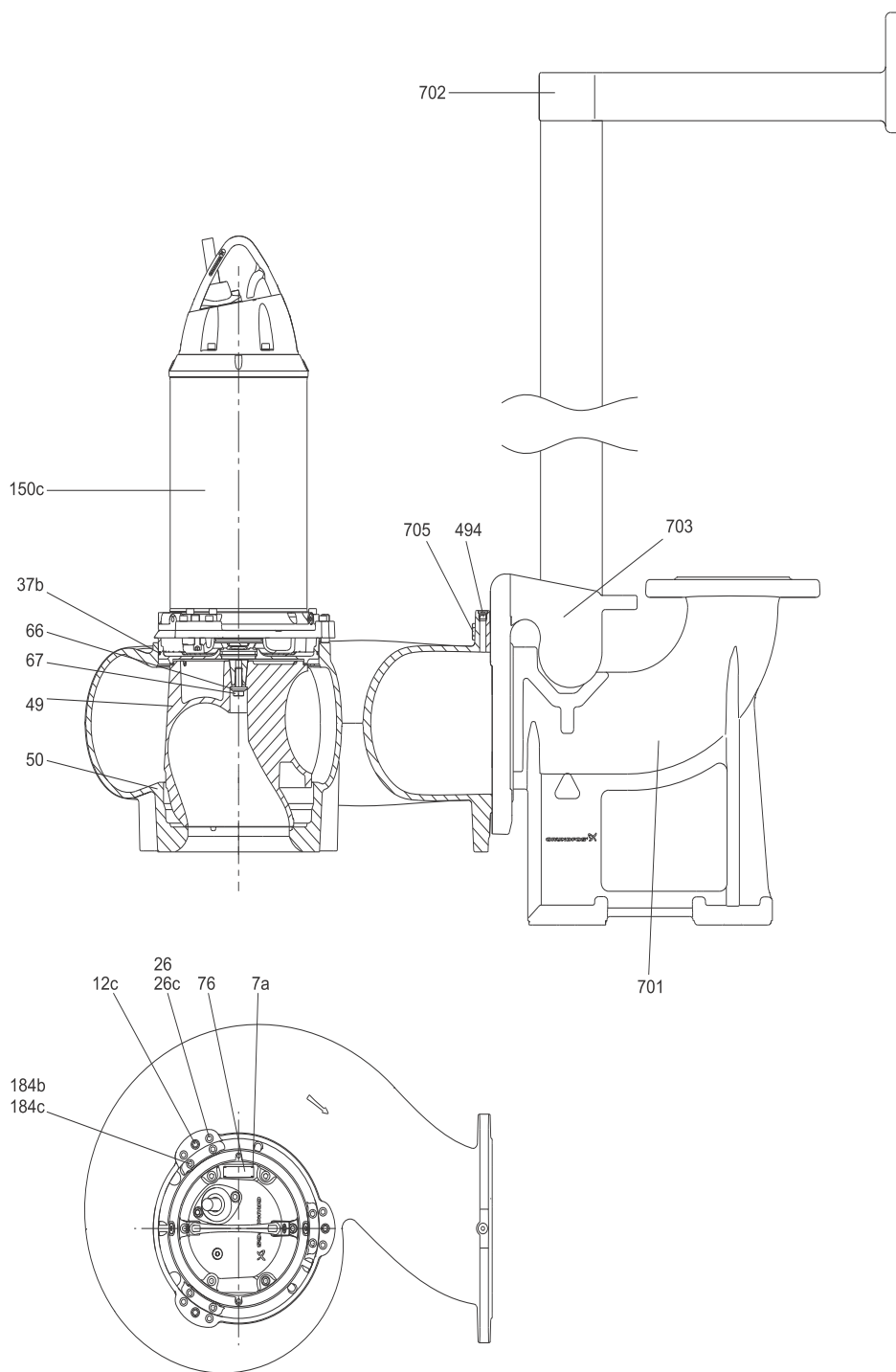


Fig. 10 SE/SL pump with guide claw for auto coupling

TM05 27813516

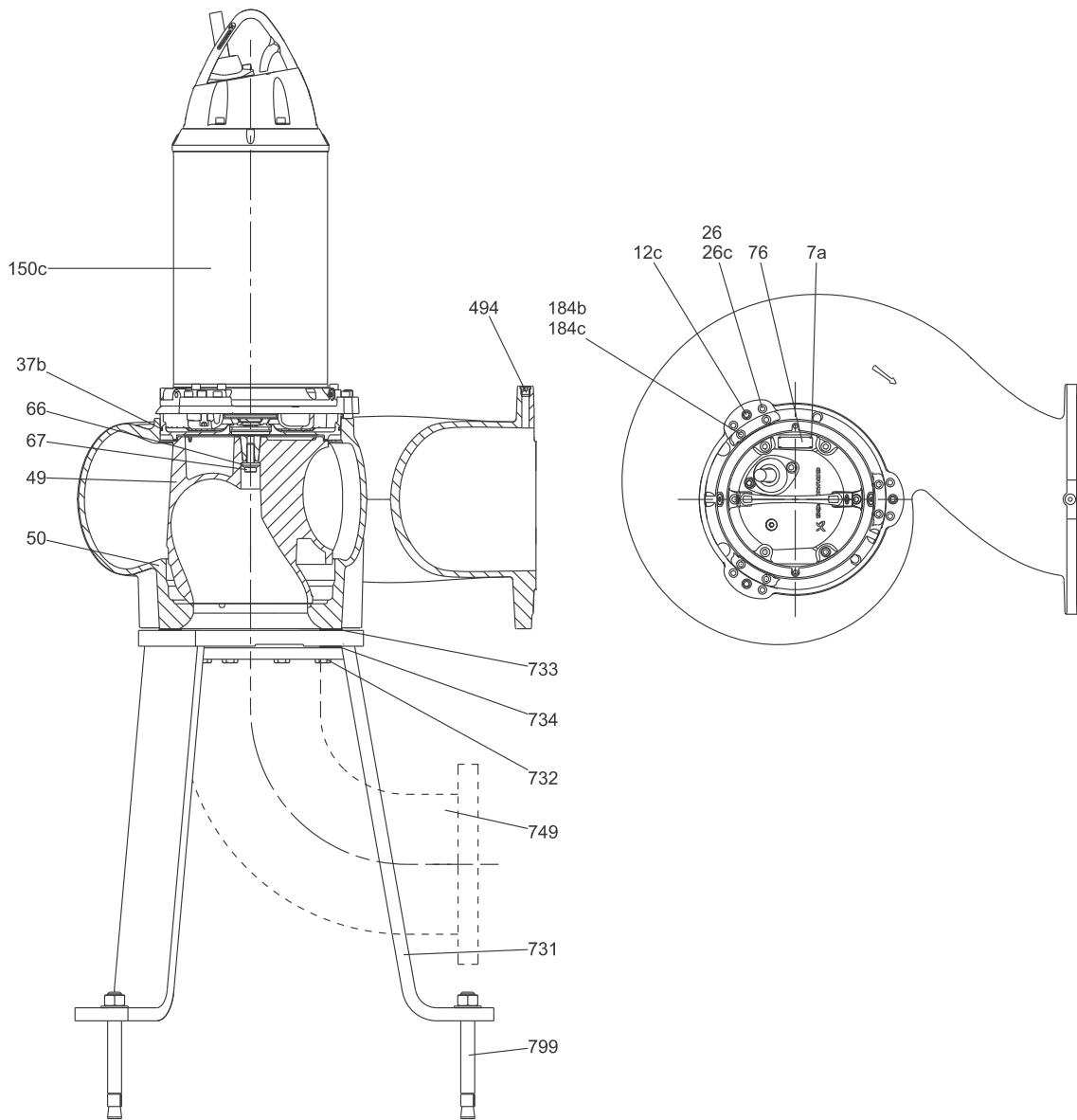
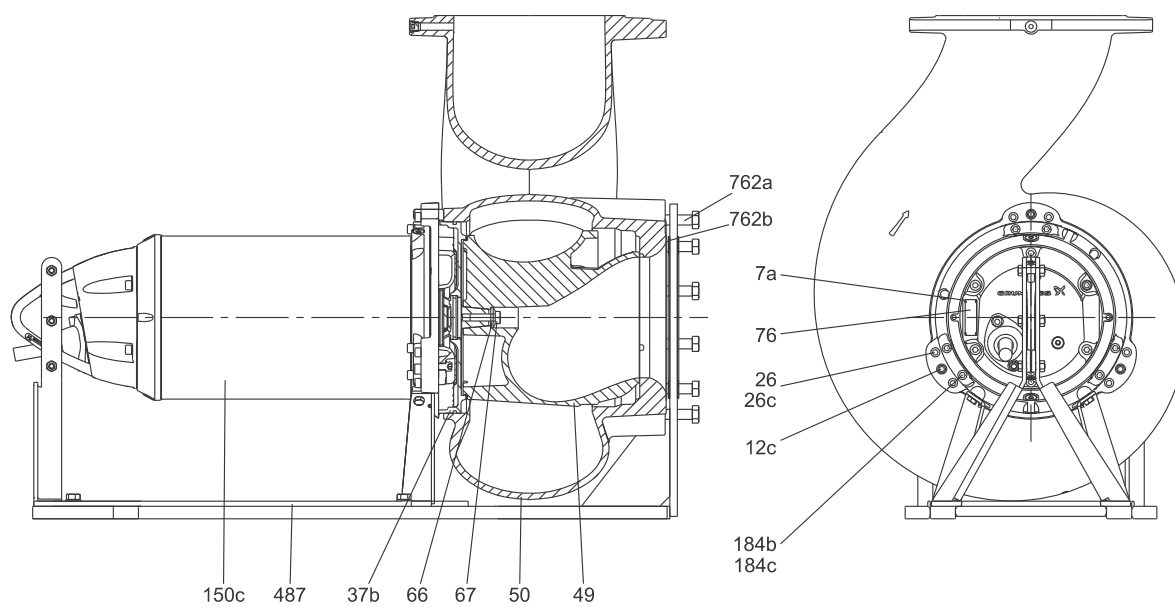


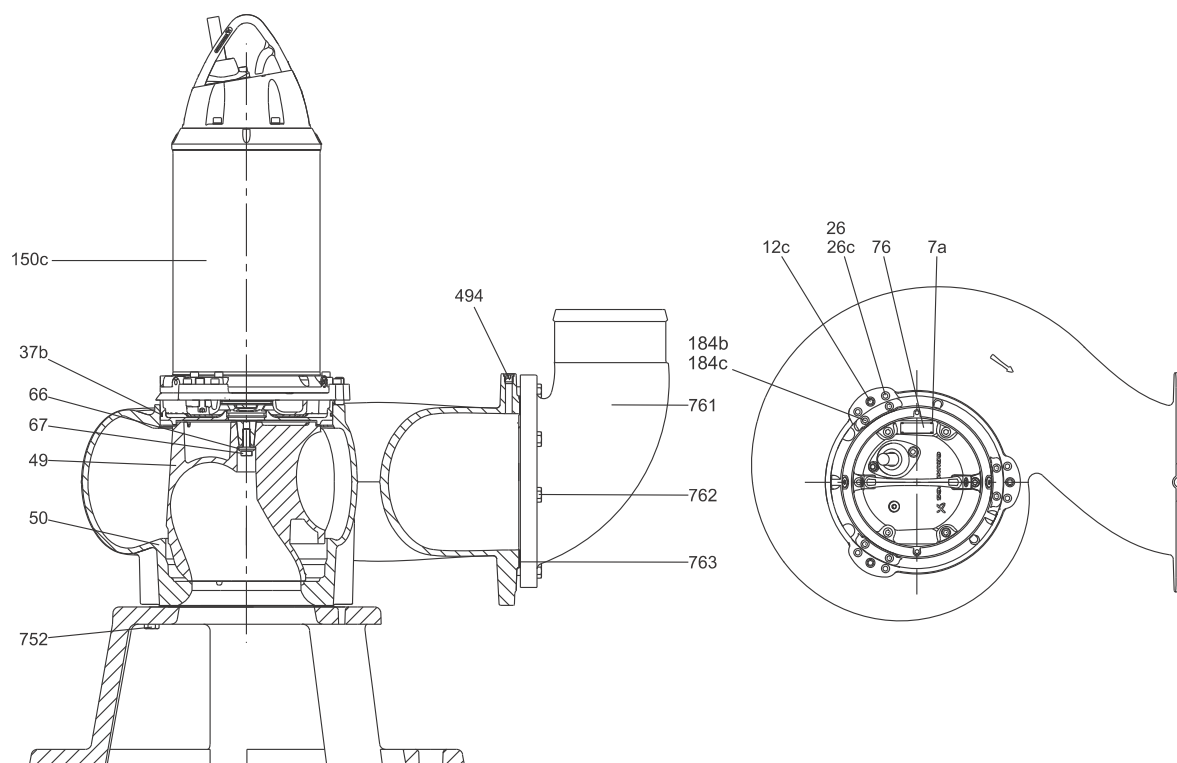
Fig. 11 SE pump, vertical dry installation

TIM05 2782 3516



TM05 2780 3516

Fig. 12 SE pump, horizontal dry installation



TM05 2783 3516

Fig. 13 SE pump, on ring stand

Components and material specification

SE, SL standard versions

Standard version pumps include cast iron pump housing, impeller and motor housing.

The position numbers in the table below refer to the sectional drawings on the previous pages.

Pos.	Component	Material	DIN W.-Nr. / EN standard	AISI/ASTM
7a	Rivet	Stainless steel	1.4436	316
9a	Key (for keyway)	Stainless steel	1.4436	316
12c	Adjusting screw	Stainless steel	1.4436	316
25	Pressure test plug	Stainless steel	1.4436	316
26	Screw	Stainless steel	1.4436	316
26c	Washer	Stainless steel	433	ANSI B18.22.1
37a	O-ring	NBR rubber		
37b	O-ring	NBR rubber		
48	Stator lamination			
49*	Impeller	Cast iron	EN-JS 1050	A536 grade 65-45-12
50*	Volute casing	Cast iron	EN-JL-1040	ASTM A48 Class 40B
55	Stator housing	Cast iron	EN-JL-1040	ASTM A48 Class 40B
55a	Circlip	DIN 472		
58	Intermediate seal housing (SE install) Upper seal housing (SL install)	Cast iron	EN-JL-1040	ASTM A48 Class 40B
58a	Upper seal housing cover	Cast iron	EN-JL-1040	ASTM A48 Class 40B
59	Bearing bracket cover	Cast iron	EN-JL-1040	ASTM A48 Class 40B
61	Upper bearing bracket	Cast iron	EN-JL-1040	ASTM A48 Class 40B
66	Impeller washer	Stainless steel	1.4436	316
67	Impeller screw	Stainless steel	1.4436	316
72	O-ring	NBR rubber		
72a	O-ring	NBR rubber		
76	Name plate			
77	Lower seal housing, 6-pole motor			
77	Lower seal housing, 2- or 4-pole motor			
105	Shaft seal cartridge cpl.	SiC/SiC or SiC/carbon		
105a	Lock ring			
106	O-ring for shaft seal			
107	O-ring	NBR rubber		
150c	Outer cooling jacket	Stainless steel	1.4307	304
150b	Inner cooling jacket			
150d	Screw			
150e	Washer	Stainless steel	433	ANSI B18.22.1
153	Ball bearing	Stainless steel		
154	Ball bearing	Stainless steel		
155	Lower bearing bracket	Cast iron	EN-JL-1040	ASTM A48 Class 40B
157c	O-ring	NBR rubber		
157b	O-ring	NBR rubber		
157	O-ring	NBR rubber		
157d	O-ring			
164a	Motor top cover	Cast iron	EN-JL-1040	ASTM A48 Class 40B

Pos.	Component	Material	DIN W.-Nr. / EN standard	AISI/ASTM
168	Cable entry	PA or cast iron		
168a	Cable entry lower			
168b	Cover for connector			
172	Shaft with rotor	Stainless steel	1.4462	UNS31803
173e	Screw	Stainless steel	1.4436	316
173f	Spring washer	Stainless steel	1.4436	316
176a	Terminal block			
176c	Plug housing			
178	Screw	Stainless steel	1.4436	316
178b	Washer	Stainless steel	433	ANSI B18.22.1
181a	Screw	Stainless steel	1.4436	316
181	Cable			
181b	EMC cable/shield			
182	Screw	Stainless steel	1.4436	316
182b	Hexagon socket head cap screw	Stainless steel	1.4436	316
182c	Washer			
182d	O-ring			
183	Screw			
184b	Screw	Stainless steel	1.4436	316
184b	Washer	Stainless steel	433	ANSI B18.22.1
185	Screw			
187a	Washer	Stainless steel	1.4436	316
187	Circlip			
188	Lock ring			
190b	Screw	Stainless steel	1.4408	CF8M
190	Lifting bracket	Stainless steel	1.4408	CF8M
193	Plug	Stainless steel	1.4408	CF8M
197	Washer			
198	Rubber seal			
198b	Washer			
198a	Washer			
198c	Disc spring			
494	Plug	Stainless steel	1.4436	316
520a	Screw	Stainless steel	1.4436	316
520	Moisture switch, top			
520c	Screw			
521	Leakage switch, bottom			
521a	Washer	Zn DIN 127		
521b	Screw			
522	Holder for leakage switch			
522c	Washer lock			
524	Rubber bush			
524a	Disc spring			
754	Cooling jacket ring			

Material declaration:

- Grey cast iron is manufactured according to EN 1561:1997.
- Cast stainless steel is manufactured according to EN 10283:2010.
- Conversion to other standards such as AISI/ASTM is normative, and products are not manufactured according to these.

Accessories

Pos.	Component	Material
487	Base stand, horizontal	Galvanized steel
701*	Auto-coupling base unit	Cast iron
702*	Guide rail bracket	Cast iron
703*	Guide claw	Cast iron
704	Rubber seal	Neopren 60
705	Screw	Steel 8.8 DIN933
731	Base stand, vertical	Galvanized steel
732	Screw for base stand	Steel 8.8 DIN933
733	Flange seal, upper for base stand	
734	Flange seal, lower for base stand	
749	Bend	Cast iron
751	Ring stand	Galvanized steel
752	Screw for ring stand	Steel 8.8 DIN933
753	Flange seal for ring stand	
761	Hose connector	Cast iron or stainless steel
762	Screw for hose connector	Steel 8.8 DIN933
763	Flange seal for hose connector	

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

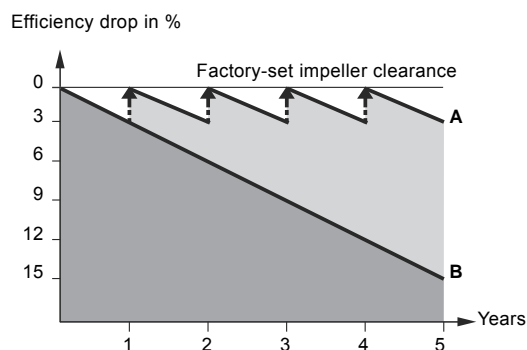
8. Product description

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 installed in order to maintain full pumping efficiency. Not so with Grundfos SmartTrim!

All Grundfos heavy-duty closed impeller pumps, whether for submerged or dry installation, are equipped with the unique SmartTrim impeller clearance adjustment system. This enables you to easily restore the 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.



TM04 2391 2508

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 optimizes the efficiency of the entire pumping system and keeps operating costs at a minimum.

Ball bearings

The bearings are greased for life.

Main bearing: Double-row angular contact ball bearing.

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

Shaft seal

The shaft seal consists of two mechanical seals and separates the motor from the pumped liquid.

The shaft seal is a cartridge seal for easy service. The combination of the primary and secondary seals in a cartridge results in a shorter assembly length compared to conventional shaft seals. Furthermore, this design minimizes the risk of incorrect fitting.

The seal faces of the primary shaft seal are SiC/SiC and the seal faces of the secondary shaft seal are carbon/ceramic.

Motor

The motor is a watertight, totally encapsulated motor with:

- insulation class H [356 °F (180 °C)]
- temperature rise class B [176 °F (80 °C)]
- enclosure class IP68.

For motor protection and sensors, see [Sensors](#) on page 27.

Power cables

Standard S1BN8-F

Cable type [mm ²]	Outer cable diameter [inches (mm)]		Bending radius [inches (cm)]
	min.	max.	
7 x 4 + 5 x 1.5	0.83 (21.0)	0.9 (23.0)	0.47 (12.0)
7 x 6 + 5 x 1.5	0.94 (23.8)	1.05 (26.8)	0.51 (13.0)
7 x 10 + 5 x 1.5	0.96 (24.5)	1.08 (27.5)	0.55 (14.0)

ECM (S1BC4N8-F)

Cable type [mm ²]	Outer cable diameter [inches (mm)]		Bending radius [inches (cm)]
	min.	max.	
3 x 6 + 5 x 1	0.96 (24.5)	1.07 (27.5)	0.55 (14)
3 x 10 + 5 x 1	0.97 (24.7)	1.08 (27.7)	0.55 (14)
3 x 16 + 5 x 1	0.98 (24.9)	1.10 (27.9)	0.55 (14)

Note: ECM cable is not available for pumps with 39 hp (29 kW) and 42 hp (31 kW) in 3 x 208-230 V.

When ordering a pump with ECM cable, main supply voltage must always be informed, since connections for correct voltage will be made inside the motor.

The standard cable length is 50 ft (15 m). Other cable lengths are available on request. See [List of variants](#) on page 13.

The cable dimension depends on the motor size.

Motor liquid

The motor is factory-filled with Grundfos motor liquid SML-3, which is frost-proof down to -4 °F (-20 °C).

Specification of SML-3:

• Corrosion protection

Grundfos motor liquid protects metals and alloys in the equipment against all forms of corrosion. The combination of low toxicity and FDA-approved ingredients with a high level of corrosion protection makes Grundfos motor liquid unique in the market. The anti-corrosion performance is demonstrated according to ASTM D 1384.

• Compatibility and mixability

Grundfos motor liquid is compatible with most other heat transfer fluids based on mono-propylene glycol. Grundfos motor liquid should only be mixed with clean water. The product can be delivered as a dilution mixed with the proper amount of purified water.

• Toxicity and safety

Grundfos motor liquid consists of FDA-approved components for heat transfer fluids with incidental food contact. Neither the Grundfos motor liquid concentrate nor any dilution is classified according to the European Dangerous Preparations Directive.

Cable entry

Watertight stainless steel cable entry with soft shape and sealing rings to prevent damage of the cable or leaks. The cable entry has a user-friendly design, making it easy and fast for the user to disconnect the cable. Only two bolts must be removed to access the terminal board.

Sensors

SE/SL pumps are available with built-in sensors.

A pump with built-in sensors greatly reduces the risk of downtime and severe damage to your pump as you are informed immediately if a problem occurs.

Sensors can be used for different purposes, depending on pump type and connection. For instance, moisture or leakage switches must cut out electricity in case of water penetrating through the cable entry, cable or shaft seal. The standard built-in sensors and the optional sensors can be seen in the table below.

	Standard pump	Pump with sensor version 1	Pump with sensor version 2	Standard Ex pump	Ex pump with sensor version 1	Ex pump with sensor version 2
Thermal switch or PTC in windings	•	•	•	•	•	•
Moisture switch in motor top compartment	•	•	•	•	•	•
Leakage switch in bottom of stator housing				•	•	•
Leakage switch sensor in the dry chamber above the seal chamber	•	•	•			
PT1000 in motor windings		•	•		•	•
PT1000 in upper bearing			•			•
PT1000 in lower bearing			•			•
PSV3 vibration sensor			•			•
IO 113 module*		•	•		•	•
SM 113 module		•	•		•	•

* IO 113 is not part of the pump delivery. Must be ordered separately.

As standard, the pump is equipped with:

- three thermal switches, one in each phase
- One moisture switch below motor top cover
- One leakage switch in the upper seal housing chamber (SL) or intermediate seal housing (SE)

Pumps with sensor version 1 are equipped with:

- all sensors from the "standard pump"
- PT1000 sensor in stator winding for temperature measurement.

Pumps with sensor version 2 are equipped with:

- all sensors from the "standard pump"
- PT1000 sensor in stator winding for temperature measurement
- PT1000 sensor in upper and lower bearing for temperature measurement
- SM 113.

IO 113 module

The IO 113 module is a protection module for Grundfos wastewater pumps.

The IO 113 has inputs for digital and analog pump sensors and can stop the pump if a sensor indicates a pump fault.

The IO 113 is connected to the Dedicated Controls system and allows advanced monitoring functions:

- motor temperature
- moisture in motor
- insulation resistance.

Testing

All pumps are tested before leaving the factory.

The factory test report is based on ANSI-HI centrifugal pump test 11.6:2012, acceptance level 3B. Test reports can be ordered directly together 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 13.

Operating conditions

Pumps without a 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 a cooling jacket in submerged and dry installations:

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

Pumped liquids

Pump type	Material variant	Installation	Material	pH value
SE1/ SEV/ SL1/ SLV	Standard	Dry and submerged	Cast iron impeller, pump housing and motor top	6.5 to 14 ¹⁾
SEV SLV	Q		Stainless steel impeller, cast iron pump housing and motor top	

¹⁾ For fluctuating pH values, the range is pH 4 to 14.

Liquid temperature: 32 °F to 104 °F (0 °C to +40 °C).

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

For short periods (max. 3 min.), a temperature of up to 140 °F (+60 °C) is permissible (non-Ex versions only).

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 [hp (kW)]	No. of poles
12 (9)	2 and 4
15 (11)	2 and 4
17.5 (13)	2 and 4
20 (15)	2 and 4
23 (17)	2
24 (18)	4
25 (18.5)	2
27 (20)	4
29 (22)	2 and 4
33 (24.5)	4
34 (25)	2
39 (29)	2
42 (31)	2

Approval standards

These pumps are approved according to CSA-C22.2 0.4, 0.5, 25, 30, 142, CAN/CSA E60529, E60079-0 and E60079-1.

Level controllers

Grundfos offers a wide range of pump controllers to keep a watchful eye on liquid levels in the wastewater collecting tank, ensuring correct operation and protection of the pumps.

- SE/SL pumps, 12-42 hp (9-31 kW), can be connected to a separate Grundfos pump controller for level control, which is available as an accessory: Grundfos Dedicated Controls for one to six pumps.

Depending on the application, different types of level control equipment can be used:

Dedicated Controls



TM06 6811 2316

Fig. 14 Dedicated Controls control cabinet

Grundfos Dedicated Controls is a control system that can control and monitor one to six Grundfos wastewater pumps and a mixer or a flush valve.

Dedicated Controls is used in installations requiring advanced control and data communication.

Main components of the Dedicated Controls system:

- CU 362 control unit
- IO 351B module (general I/O module).

Dedicated Controls is available either as separate components or as control cabinets.

The control system can be operated by the following:

- float switches
- a level sensor
- a level sensor and safety float switches.

The separate control unit and modules can be built for practically any size of system.

CU 362 control panel



Gr-1014749

Fig. 15 CU 362 control panel

Pos.	Description
1	Display
2	Right
3	Help
4	Up
5	Down
6	Plus
7	Minus
8	Back
9	Home
10	OK (accept)
11	Indicator light, operation (green)
12	Indicator light, fault (red)
13	Contrast

Features and benefits

The Grundfos Dedicated Controls system offers these features and benefits:

Basic features

- Pump start/stop
- alternating operation of pumps
- overflow detection
- overflow measurement
- alarms and warnings
- advanced alarm schedules
- start and stop delays
- free language selection.

Advanced features

- User-defined functions
- alternation between groups
- start level variation (reduced sedimentation)
- combi alarms
- daily emptying
- foam draining
- anti-seizing (limestone)
- safety after-run delay
- mixer or flush valve
- maximum number of started pumps
- pump flow measurement
- system flow measurement
- pump flow calculation
- system flow calculation.

Additional features, IO 113

- Monitoring of:
 - insulation resistance
 - moisture in motor.

Additional features, MP 204

- Anti-blocking
- monitoring of:
 - voltage
 - current
 - current asymmetry
 - phase sequence
 - cos ϕ (power factor)
 - power
 - energy
 - insulation resistance
 - temperature, Pt100/PT1000
 - temperature, PTC
 - temperature, Tempcon.

Additional features, CUE or VFD

The CUE/VFD (optional), which is either a Grundfos variable-frequency converter or a general variable-frequency converter, also offers better pump protection and a more steady flow through the pipe system.

In addition, Grundfos CUE/VFD offers these features and benefits:

- anti-blocking
- automatic energy optimisation
- specific-energy test
- output frequency
- monitoring of:
 - voltage*
 - current*
 - phase sequence*
 - power*
 - energy*
 - torque*
- reverse start**
- run flushing
- stop flushing
- PID control.

* These functions are only available with a Grundfos CUE.

** We do not recommend reverse at full speed at any time. When reduced reverse operation settings are set, make sure constant torque is enabled in Variable Frequency Drive (VFD) (i.e. Grundfos CUE, Siemens Simatic, ABB, Schneider Electronic etc.) to have maximum torque available when reversing.

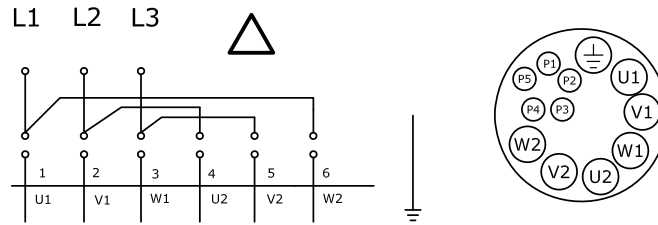
Communication features

- Complete overview of the pump installation
- setpoint change, resetting of system and start/stop of pumps
- access to complete alarm/warning log
- automatic redirection of alarms and warnings to the on-duty staff
- optimisation of your maintenance and service programme
- reduction in energy consumption
- Modbus RTU communication via cable
- Modbus TCP communication via GSM/GPRS
- SMS commands (send/receive)
- SMS schedule
- VNC connection for migration of user interface to a web browser.

For further information, see the data booklet or installation and operating instructions for Dedicated Controls on www.grundfos.us (Grundfos product center).

Wiring diagram

Connections for 3 x 380-480 V (1G) or 3 x 208 V (0S) or 3 x 230 V (1R)



Connection for 3 x 660-690 V (1G) or 3 x 460 V (1R)

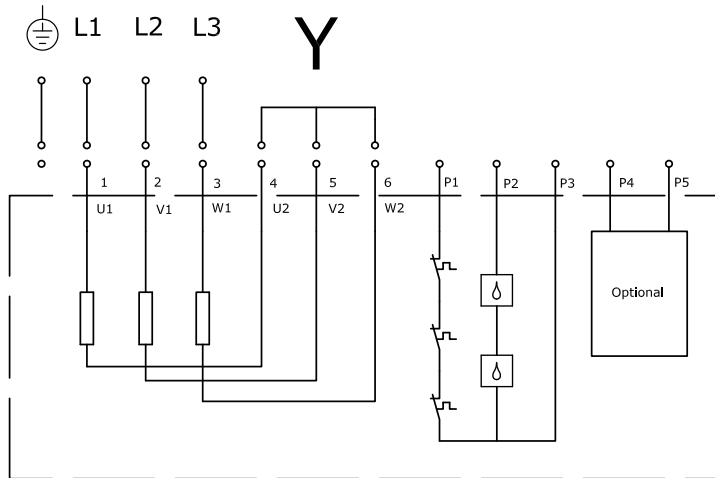


Fig. 16 Wiring diagram, 12-wire, star/delta start

Connection for pump with EMC cable.
Main supply voltage must be informed since pump will be connected according this from factory.

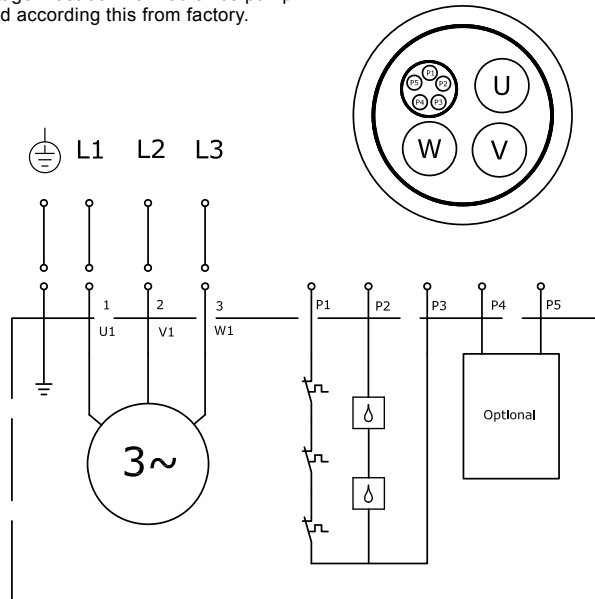


Fig. 17 Wiring diagram, 8-wire, DOL start

TM05 2695 0412

TM05 2694 0412

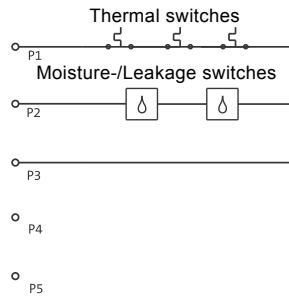


Fig. 18 Standard version with thermal switches

TM05 2687 0412

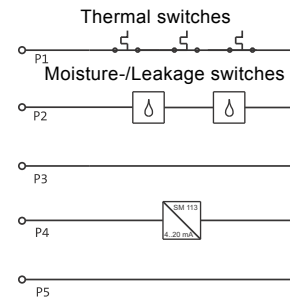


Fig. 23 Sensor version 2 (thermal switches), version 1 Ex and version 2 Ex

TM05 2692 0412

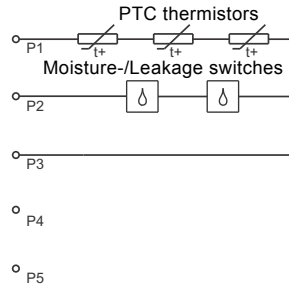


Fig. 19 Standard version with PTC sensors

TM05 2688 0412

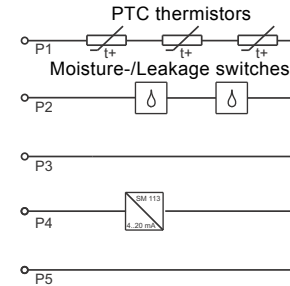


Fig. 24 Sensor version 2 (PTC), version 1 Ex and version 2 Ex

TM05 2693 0412

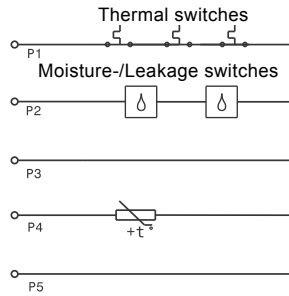


Fig. 20 Sensor version 1

TM05 2690 0412

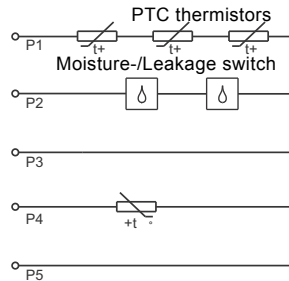


Fig. 21 Sensor 1 (PTC)

TM05 2691 0412

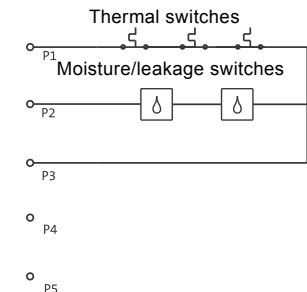


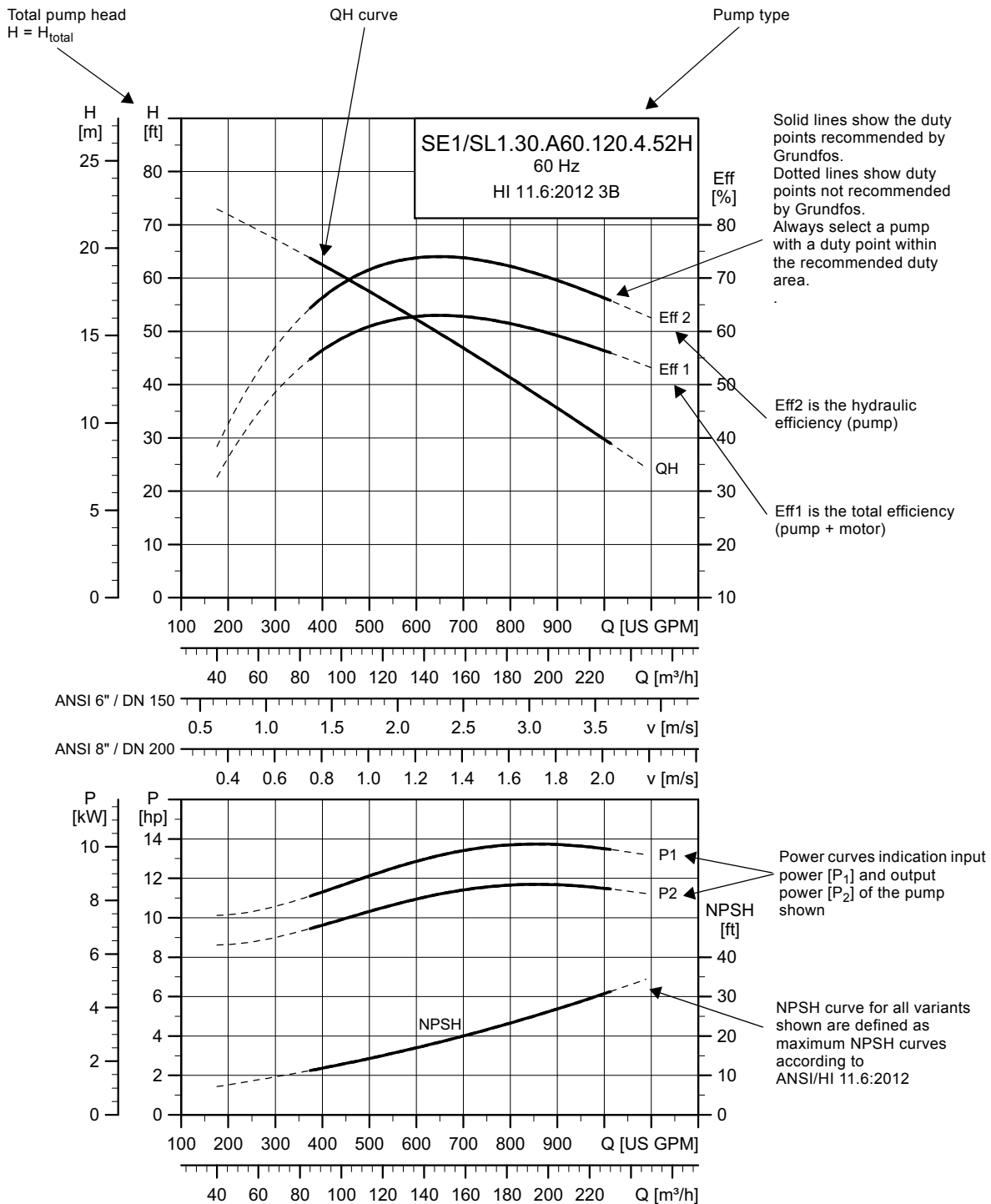
Fig. 22 Standard Ex pump

TM05 2689 0412

	Standard pump	Pump with sensor version 1	Pump with sensor version 2	Standard Ex pump	Ex pump with sensor version 1	Ex pump with sensor version 2
Thermal switch or PTC in windings	•	•	•	•	•	•
Moisture switch in motor top compartment	•	•	•	•	•	•
Leakage switch in bottom of stator housing				•	•	•
Leakage switch sensor in the dry chamber above the seal chamber	•	•	•			
PT1000 in motor windings		•	•		•	•
PT1000 in upper bearing			•			•
PT1000 in lower bearing				•		•
PSV3 vibration sensor			•		•	•
IO 113 module		•	•		•	•
SM 113 module		•	•		•	•

9. Curve charts and technical data

How to read the curve charts



MT06 2272 3914

Note: Pumps are tested according to ANSI HI 11.6:2012 3B tolerances. Testing equipment and measuring instruments are designed and calibrated according to the standards mentioned. The pumps are approved according to tolerances for entire curve, specified in grade 3B.

Curve conditions

The guidelines below apply to the curves shown in the performance charts on pages 35-70.

- Tolerances according to: HI 11.6:2012 3B.
- The curves show pump performance with different impeller diameters at rated speed.
- The curves apply to the pumping of airless water at a temperature of 68 °F (+20 °C) and a kinematic viscosity of 1 mm²/s (1 cSt).
- **ETA:** The lines show the hydraulic efficiency values of the pump for the different impeller diameters.
- **NPSH:** The curves shown maximum NPSH values according to ANSI/HI 11.6:2012.
- In case of densities other than 133.5 ounces/gallon (1000 kg/m³), the discharge pressure is proportional to the density.
- When pumping liquids with a density higher than 133.5 ounces/gallon (1000 kg/m³), 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.

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

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

All pumps are factory tested to a Grundfos testing standard that is similar to the hydraulic institute 11.6:2012 grade 3B. These Grundfos standard curves are provided with each pump. For tests according to ANSI/HI 11.6:2012 grade 3B, see Tests on page 13.

The testing equipment and measuring instruments are designed and calibrated in accordance with the mentioned standards.

For customized duty point or other grades with 5 point test certificate, please contact Grundfos in order to agree on terms before ordering.

Certificates

Certificates have to be confirmed for every order and are available on request as a 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 HI 11.6:2012 3B.

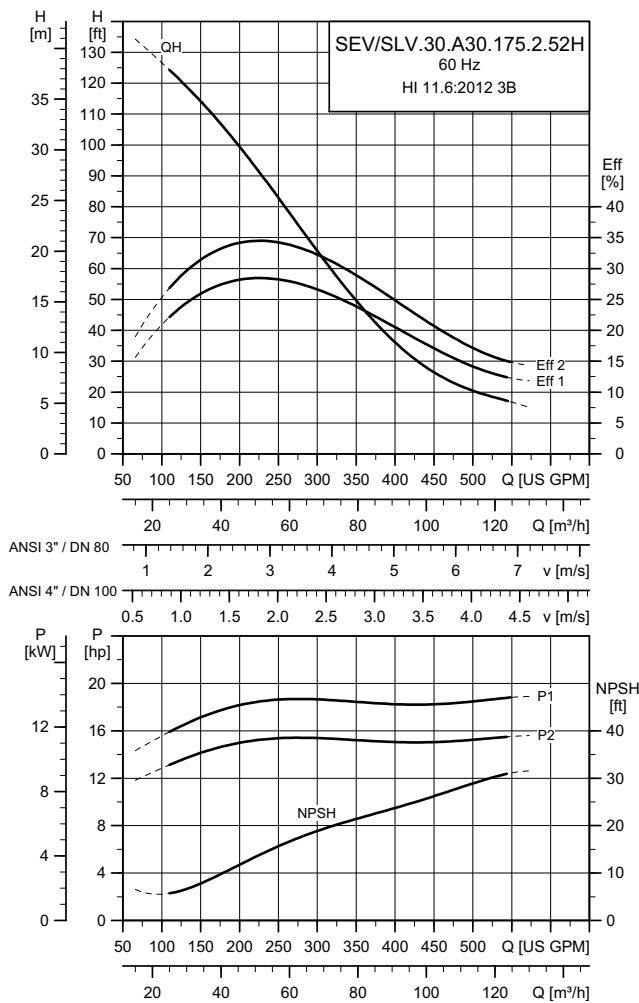
The witness test is not a certificate and will not result in a written statement from Grundfos. The witness test only guarantees that everything is carried out as prescribed in the testing procedure.

If the customer wants to carry out a witness test of the pump performance, such request must be indicated on the order.

10. Performance curves and technical data

Vortex impeller

SLV/SEV.30.A30.175.2.52H



TM06 2268 4214

Electrical data

Pump type	Voltage variant	P1 P2		No. of poles	RPM	Starting method	I_N		η_{motor} [%]			Cos ϕ			Moment of inertia [lbf ² (kgm ²)]	Breakdown torque M_{max} [lbf ² ft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.175.2.52H	60S 3 x 208 V	20.5 (15)	17.5 (13)	2	3569	Y/D	51	270	78	82	85	0.73	0.80	0.85	1.16 (0.0490)	59 (80)
	61R 3 x 230 VD/460 V Y	20.5 (15)	17.5 (13)	2	3569	Y/D	46/23	308/154	78	82	85	0.73	0.80	0.85	1.16 (0.0490)	74 (100)

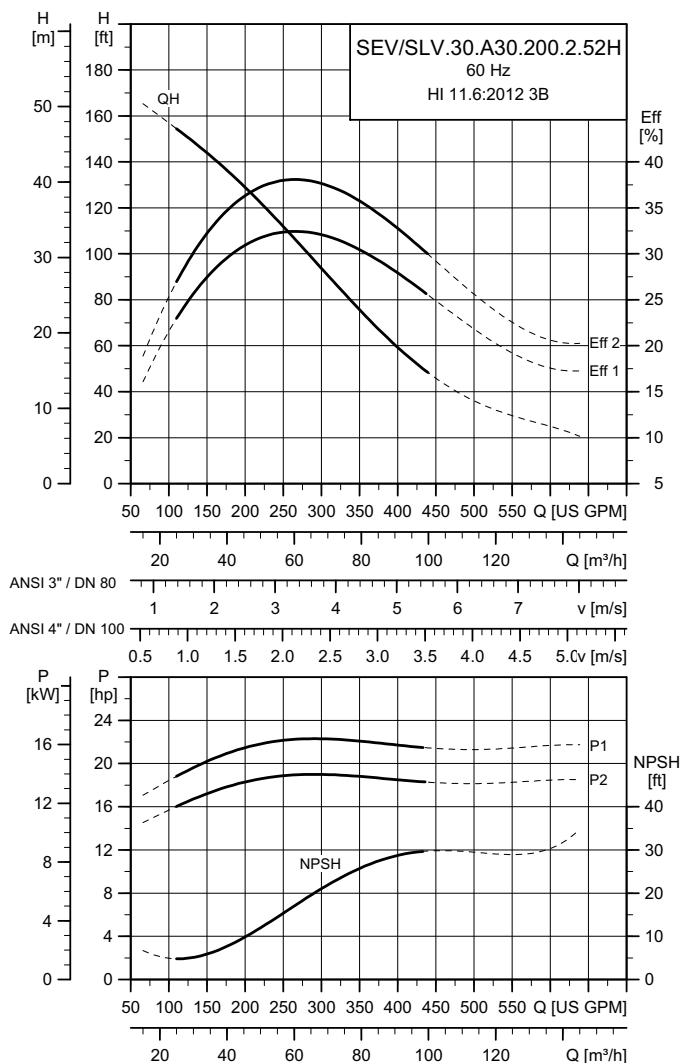
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.175.2.52H	7.4 (189)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.200.2.52H



TM06 2269 3914

Electrical data

Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbf·ft ² (kgm ²)]	Breakdown torque M _{max} [lbf·ft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.200.2.52H	60S 3 x 208 V	23.5 (18)	20.0 (15)	2	3564	Y/D	57	270	80	84	86	0.75	0.83	0.86	1.16 (0.0490)	59 (80)
	61R 3 x 230 VD/460 V Y	23.5 (18)	20.0 (15)	2	3564	Y/D	51/26	308/154	80	84	86	0.75	0.83	0.86	1.16 (0.0490)	74 (100)

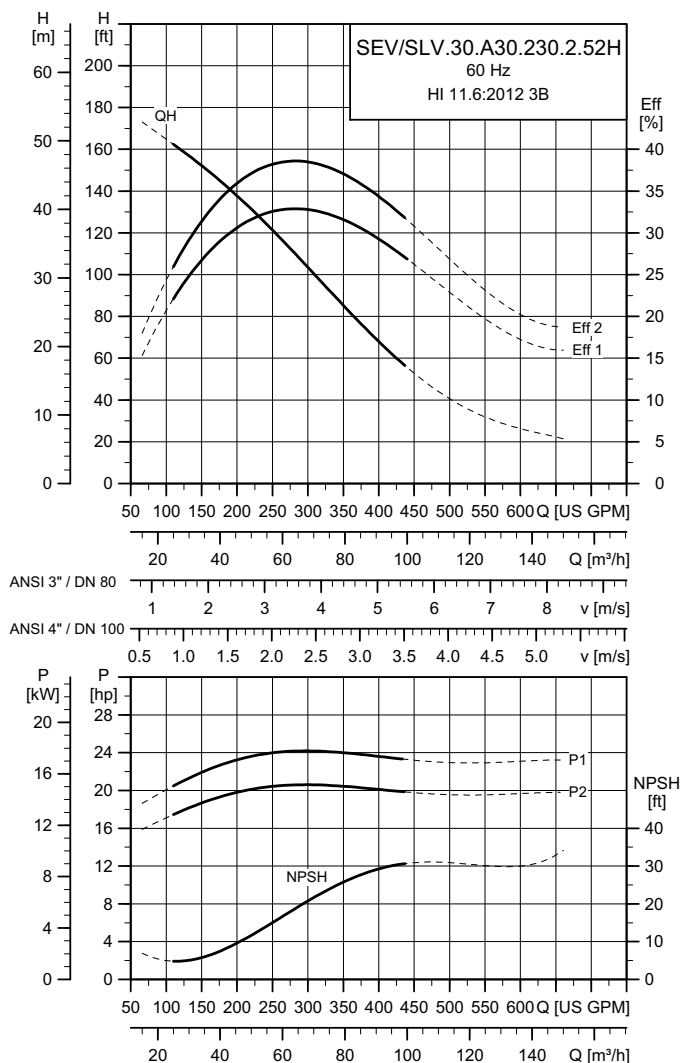
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.200.2.52H	7.8 (199)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.230.2.52H



TM06 2270 3914

Electrical data

Pump type	Voltage variant	P1		P2		No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbf ² (kgm ²)]	Breakdown torque M _{max} [lbf ² ft (Nm)]
		[hp (kW)]	[hp (kW)]	1/2	3/4						1/1	1/2	3/4	1/1				
SLV/SEV.30.A30.230.2.52H	60S 3 x 208 V	26.2 (20)	23.0 (17)	2	3567	Y/D	63	539	82	85	87	0.73	0.82	0.86	1.38 (0.0580)	137 (186)		
	61R 3 x 230 VD/460 V Y	26.2 (20)	23.0 (17)	2	3567	Y/D	57/29	373/187	82	85	87	0.73	0.82	0.86	1.38 (0.0580)	104 (141)		

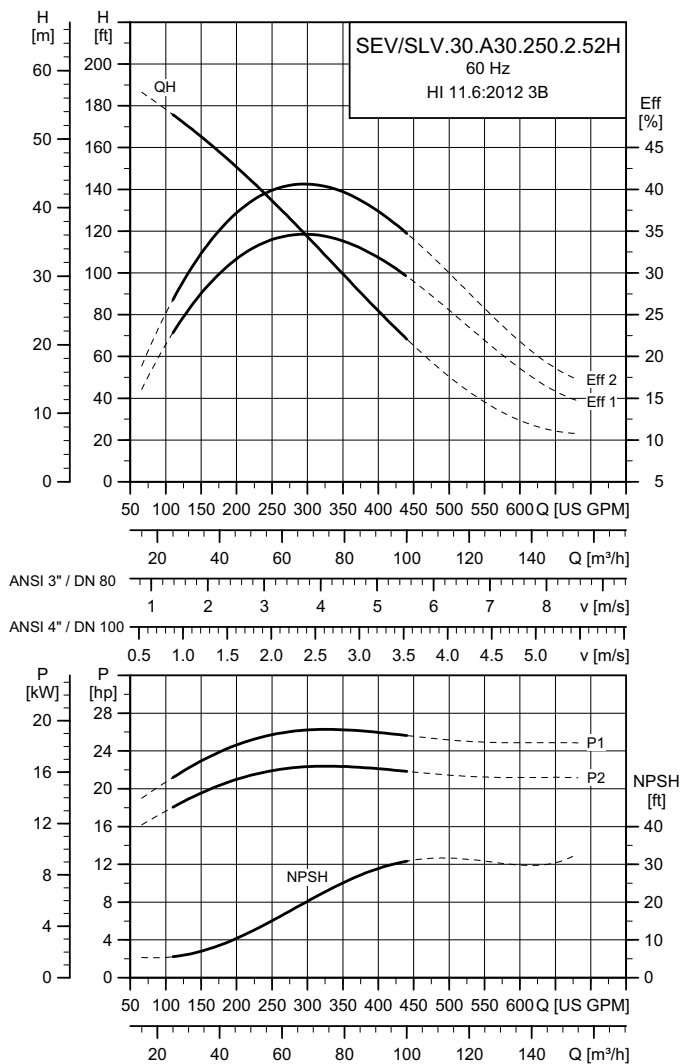
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.230.2.52H	8.0 (204)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.250.2.52H



TM06 2271 3914

Electrical data

Pump type	Voltage variant	P1		P2		No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbf ² (kgm ²)]	Breakdown torque M _{max} [lbf ² (Nm)]
		[hp]	[kW]	[hp]	[kW]						1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.250.2.52H	60S 3 x 208 V	28.4 (21)	25.0 (18.5)	2	3565	Y/D	69	539	83	86	87	0.75	0.84	0.86	1.38 (0.0580)	137 (186)		
	61R 3 x 230 VD/460 V Y	28.4 (21)	25.0 (18.5)	2	3565	Y/D	62/31	373/187	83	86	87	0.75	0.84	0.86	1.38 (0.0580)	104 (141)		

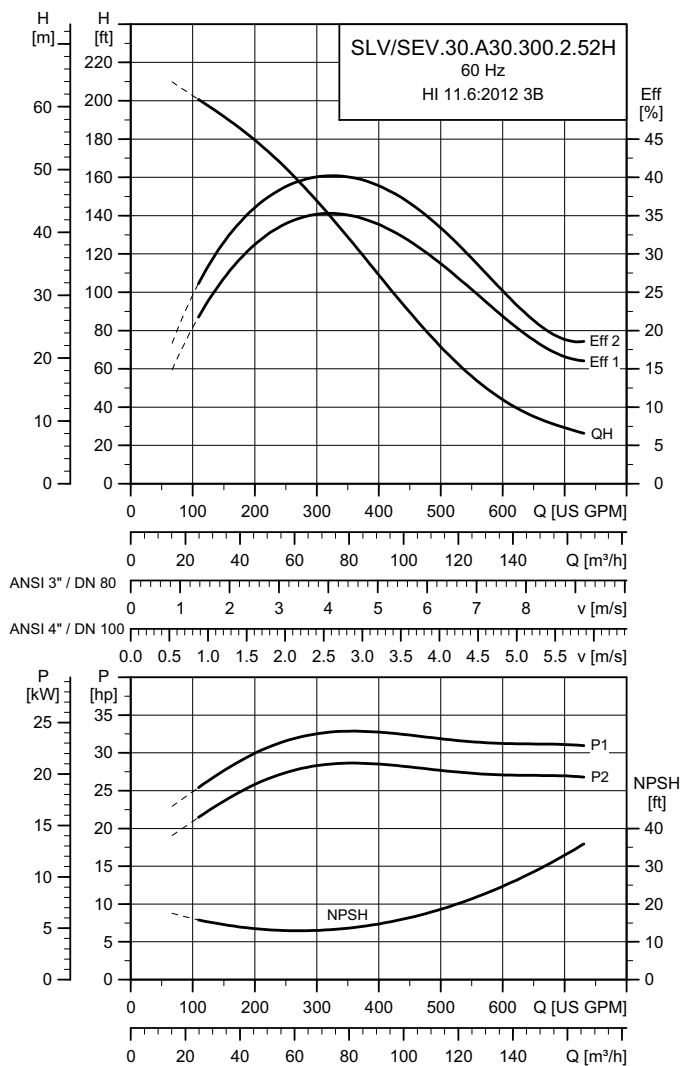
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.250.2.52H	8.3 (210)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.300.2.52H



TM05 4120 1414

Electrical data

Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbf ² (kgm ²)]	Breakdown torque M _{max} [lbf ² (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.300.2.52H	60S 3 x 208 V	33.2 (25)	30.0 (22)	2	3551	Y/D	83	610	85	87	89	0.62	0.75	0.84	1.54 (0.0650)	150 (204)
	61R 3 x 230 VD/460 V Y	33.2 (25)	30.0 (22)	2	3551	Y/D	75/38	724/362	85	87	89	0.62	0.75	0.84	1.54 (0.0650)	181 (245)

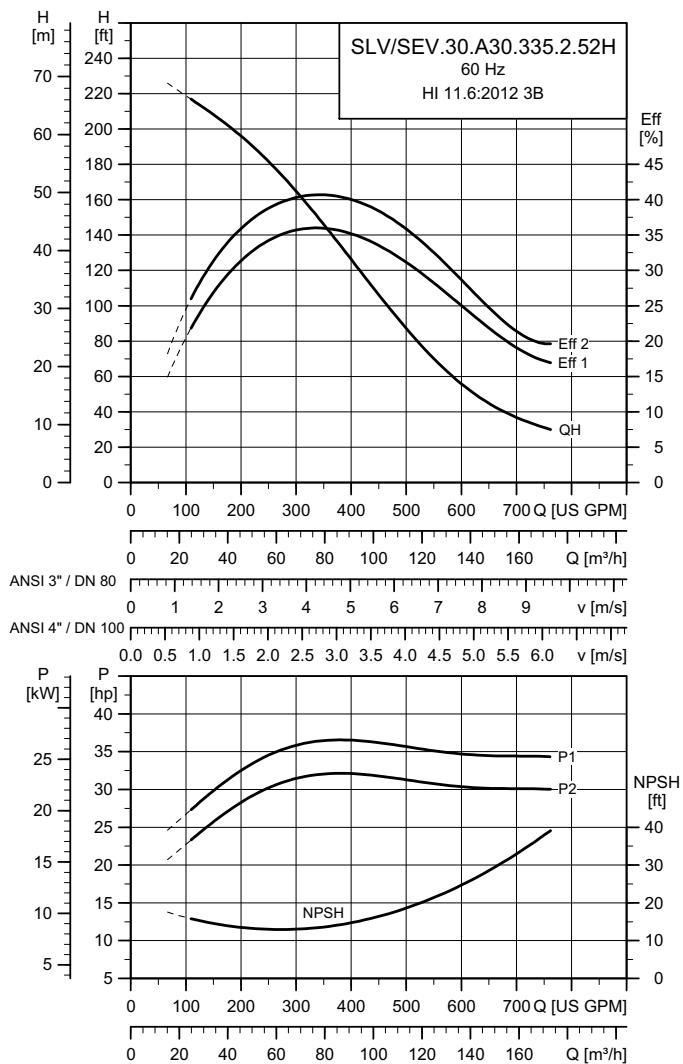
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.300.2.52H	8.7 (221.5)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.335.2.52H



TM05 4121 14 14

Electrical data

Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N		η _{motor} [%]			Cos φ			Moment of inertia [lbf ² (kgm ²)]	Breakdown torque M _{max} [lbf ² ft (Nm)]
		[hp (kW)]	[hp (kW)]				I _N [A]	I _{start} [A]	1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.335.2.52H	60S 3 x 208 V	37.6 (28)	33.5 (25)	2	3551	Y/D	91	610	86	88	89	0.66	0.79	0.86	1.54 (0.0650)	150 (204)
	61R 3 x 230 VD/460 V Y	37.6 (28)	33.5 (25)	2	3551	Y/D	82/41	724/362	86	88	89	0.66	0.79	0.86	1.54 (0.0650)	181 (245)

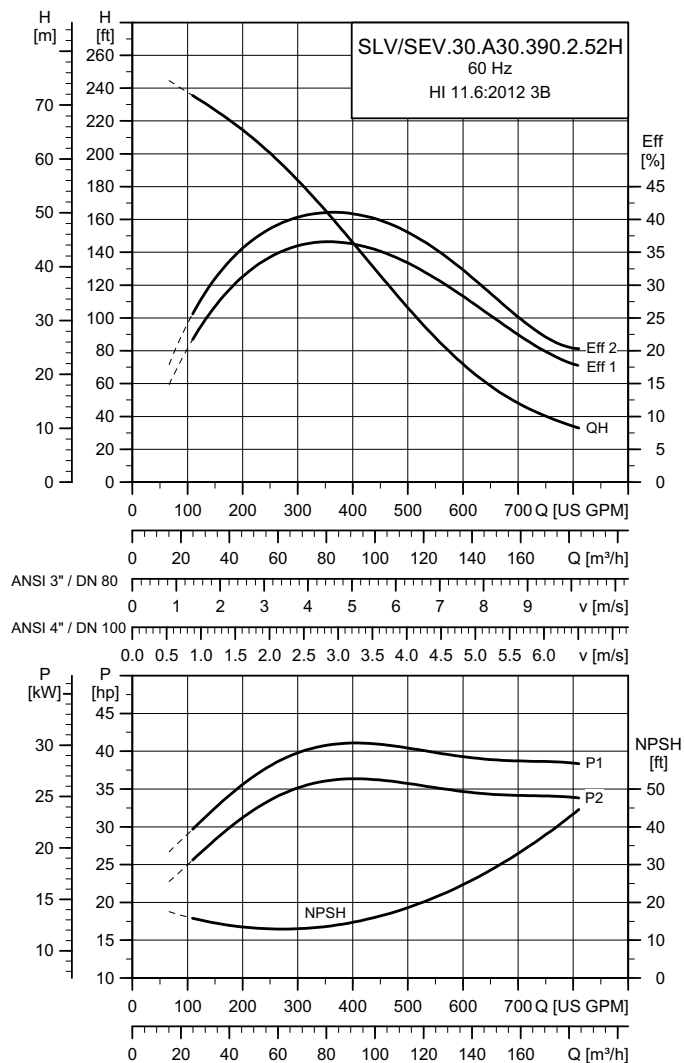
Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.335.2.52H	9 (227.5)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.390.2.52H



TM05 4122 1414

Electrical data

Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbf·ft ² (kgm ²)]	Breakdown torque M _{max} [lbf·ft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.390.2.52H	61G 3 x 380-480/660-690 V	43.6 (33)	39.0 (29)	2	3551	Y/D	51	260	87	89	89	0.64	0.76	0.81	1.54 (0.0650)	171 (232)

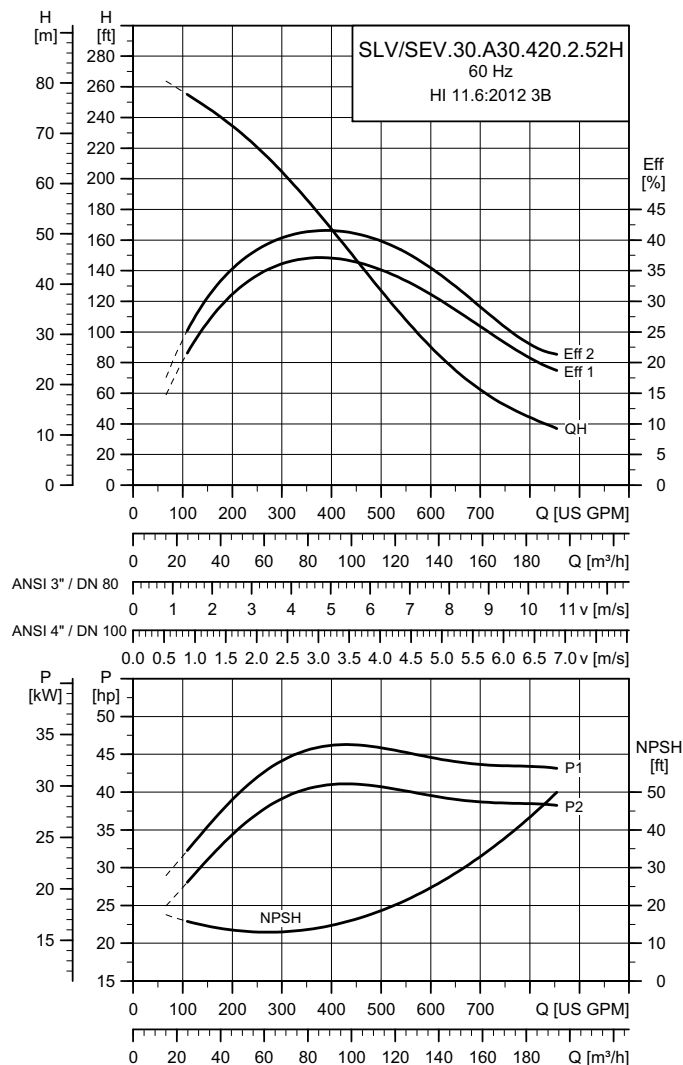
Note: Enclosure class: IP68; 39 hp motors must be operated at 460V to prevent excessive current. Electrical data provided in table is for 460V.

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.390.2.52H	9.3 (235)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

SLV/SEV.30.A30.420.2.52H



TM05 4123 1414

Electrical data

Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbf·ft ² (kgm ²)]	Breakdown torque M _{max} [lbf·ft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SLV/SEV.30.A30.420.2.52H	61G 3 x 380-480/660-690 V	46.7 (35)	42.0 (31)	2	3551	Y/D	54	260	87	89	89	0.66	0.78	0.81	1.54 (0.0650)	171 (232)

Note: Enclosure class: IP68; 42 hp motors must be operated at 460V to prevent excessive current. Electrical data provided in table is for 460V.

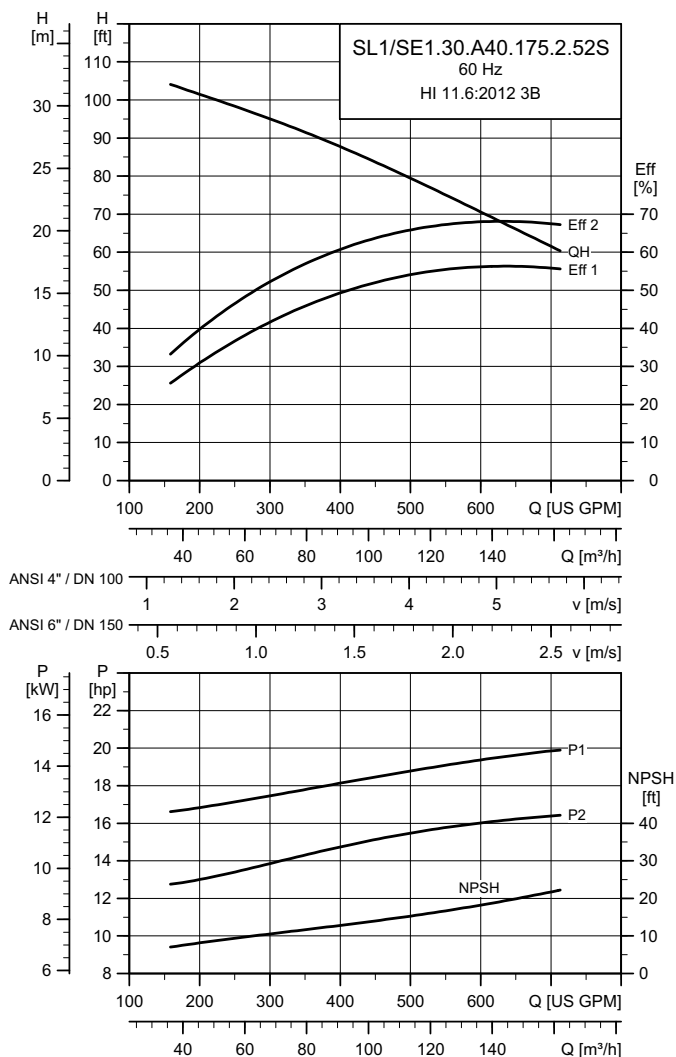
Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SLV/SEV.30.A30.420.2.52H	9.5 (242)	3.0 (80)	145 (10)	66 (20)

Note: Pumps with stainless steel SuperVortex impellers have the same performance curves as the corresponding cast iron versions.

S-tube® impeller

SL1/SE1.30.A40.175.2.52S



TM06 6821 2316

Electrical data

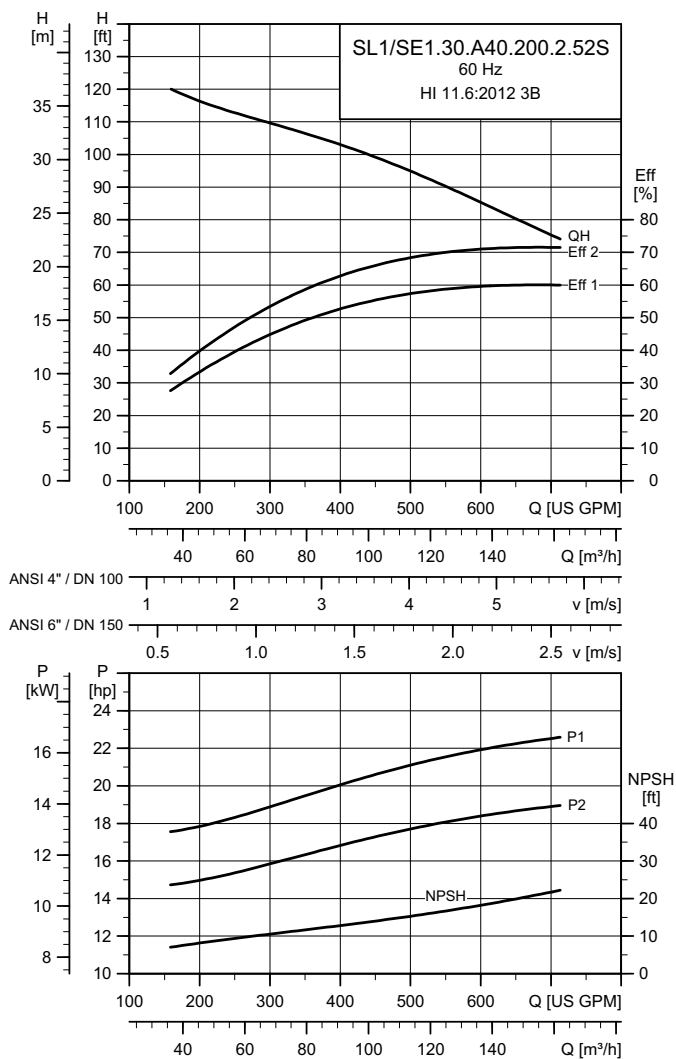
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft ² (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.30.A40.175.2.52S	60S 3 x 208 V	20.5 (15)	17.5 (13)	2	3569	Y/D	51	270	78	82	85	0.73	0.80	0.85	1.16 (0.0490)	59 (80)
	61R 3 x 230 VD/460 V Y	20.5 (15)	17.5 (13)	2	3569	Y/D	46/23	308/154	78	82	85	0.73	0.80	0.85	1.16 (0.0490)	74 (100)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.30.A40.175.2.52S	6 (153)	3.0 (80)	145 (10)	66 (20)

SL1/SE1.30.A40.200.2.52S



TM06 6822 2316

Electrical data

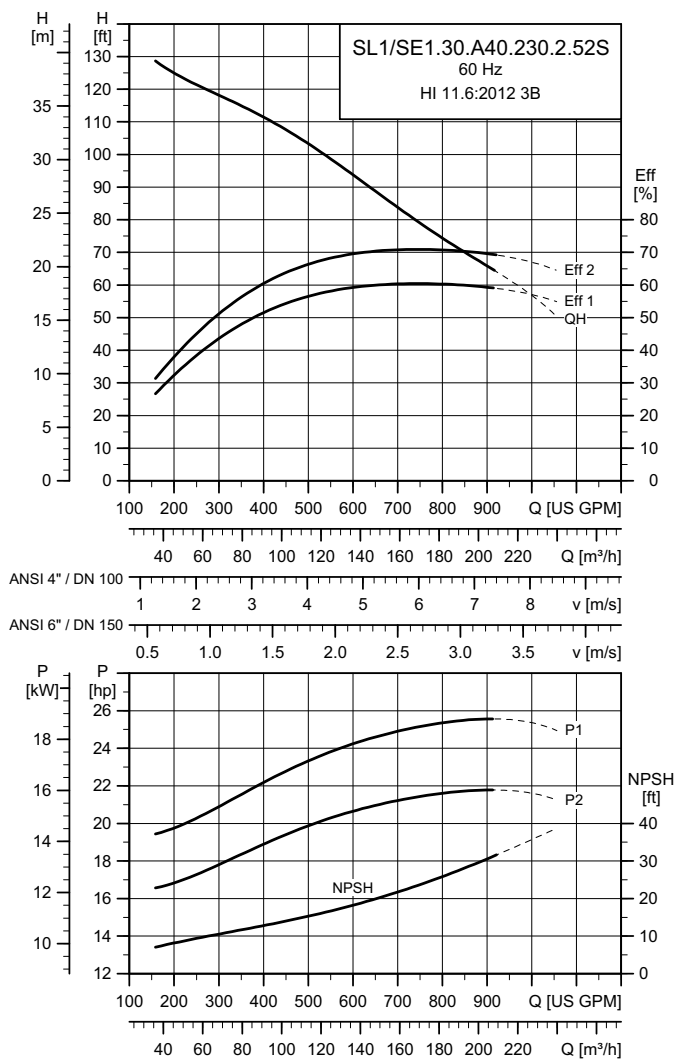
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.30.A40.200.2.52S	60S 3 x 208 V	23.5 (18)	20.0 (15)	2	3564	Y/D	57	270	80	84	86	0.75	0.83	0.86	1.16 (0.0490)	59 (80)
	61R 3 x 230 VD/460 V Y	23.5 (18)	20.0 (15)	2	3564	Y/D	51/26	308/154	80	84	86	0.75	0.83	0.86	1.16 (0.0490)	74 (100)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.30.A40.200.2.52S	6.3 (160)	3.0 (80)	145 (10)	66 (20)

SL1/SE1.30.A40.230.2.52S



TM06 6823 2316

Electrical data

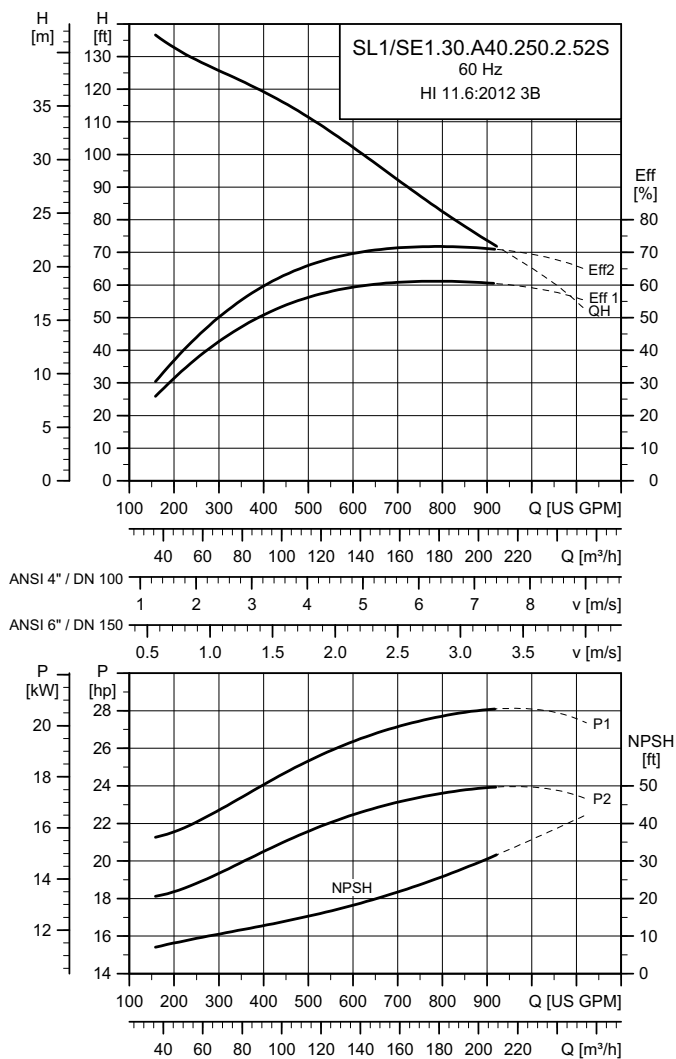
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.30.A40.230.2.52S	60S 3 x 208 V	26.2 (20)	23.0 (17)	2	3567	Y/D	63	539	82	85	87	0.73	0.82	0.86	1.38 (0.0580)	137 (186)
	61R 3 x 230 VD/460 V Y	26.2 (20)	23.0 (17)	2	3567	Y/D	57/29	373/187	82	85	87	0.73	0.82	0.86	1.38 (0.0580)	104 (141)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.30.A40.230.2.52S	6.4 (163)	3.0 (80)	145 (10)	66 (20)

SL1/SE1.30.A40.250.2.52S



TM06 6824 2316

Electrical data

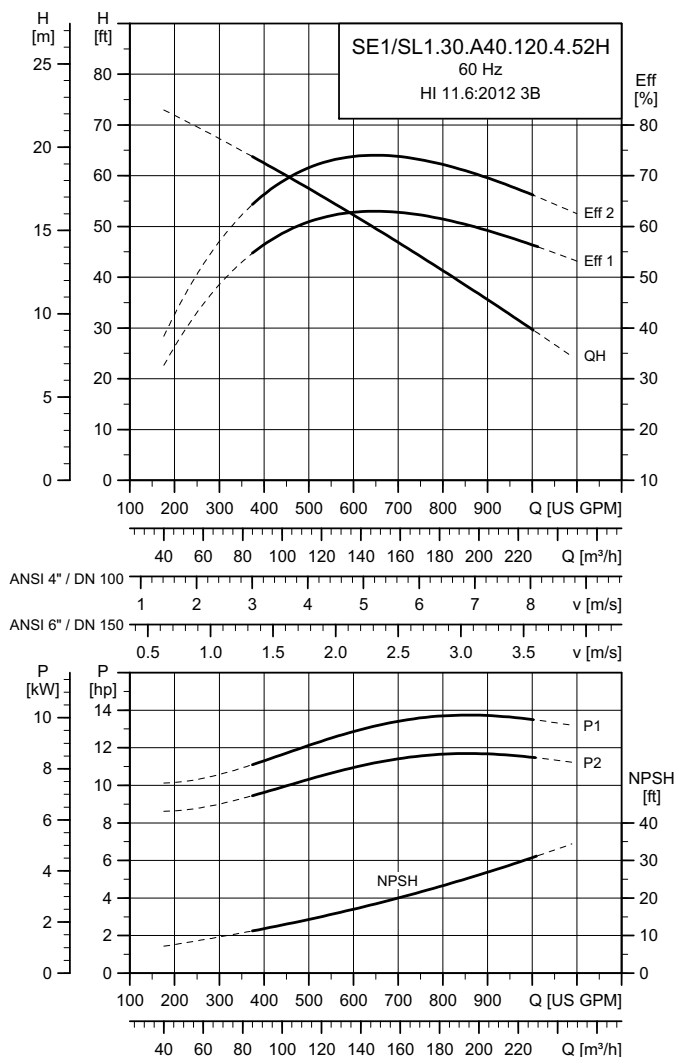
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.30.A40.250.2.52S	60S 3 x 208 V	28.4 (21)	25.0 (18.5)	2	3565	Y/D	69	539	83	86	87	0.75	0.84	0.86	1.38 (0.0580)	137 (186)
	61R 3 x 230 VD/460 V Y	28.4 (21)	25.0 (18.5)	2	3565	Y/D	62/31	373/187	83	86	87	0.75	0.84	0.86	1.38 (0.0580)	104 (141)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.30.A40.250.2.52S	6.7 (169)	3.0 (80)	145 (10)	66 (20)

SE1/SL1.30.A40.120.4.52H



TM06 6708 2316

Electrical data

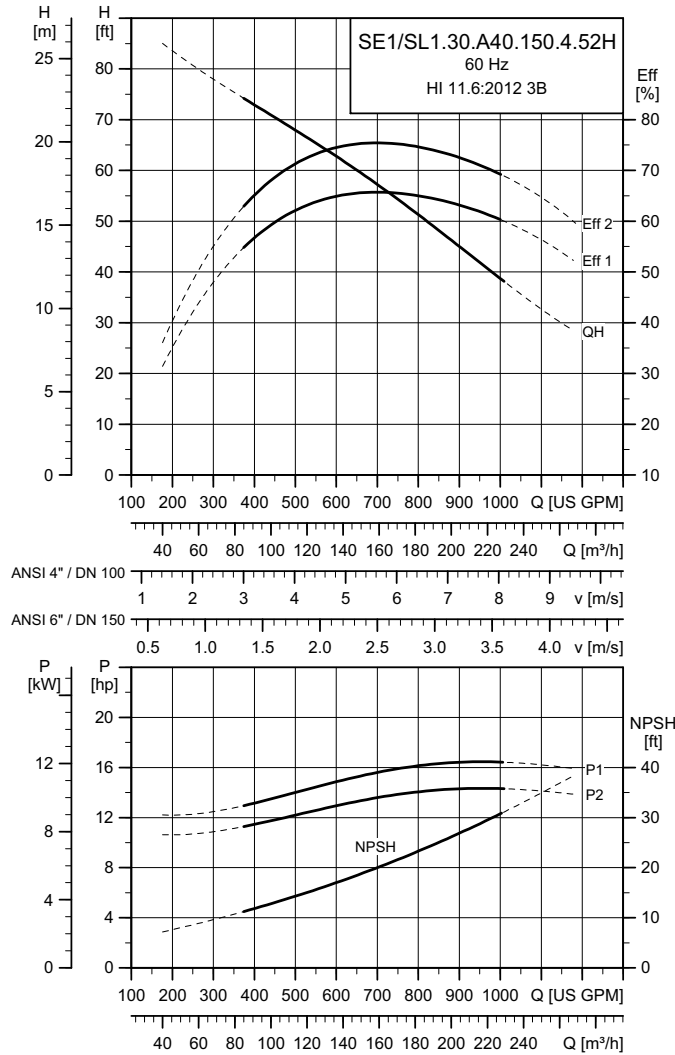
Pump type	Voltage variant		P1	P2	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \phi$			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
			[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	1/2	3/4	1/1			
SE1/SL1.30.A40.120.4.52H	60S	3 x 208 V	13.8 (10)	12.0 (9)	4	1785	Y/D	37	377	82	85	88	0.68	0.73	0.78	1.38 (0.0580)	166 (225)				
	61R	3 x 230 VD/ 460 V Y	13.8 (10)	12.0 (9)	4	1785	Y/D	32/ 16	280/ 140	82	85	88	0.72	0.77	0.82	1.38 (0.0580)	121 (164)				

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A40.120.4.52H	8.9 (225.7)	3.0 (80)	145 (10)	66 (20)

SE1/SL1.30.A40.150.4.52H



TM06 6709 2316

Electrical data

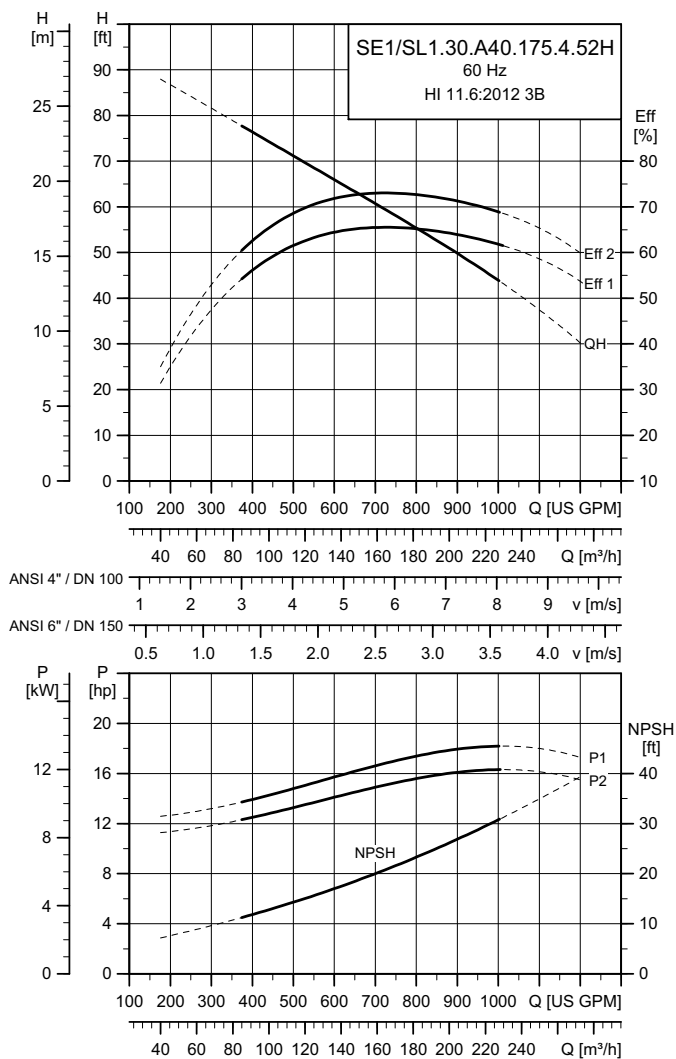
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SE1/SL1.30.A40.150.4.52H	60S 3 x 208 V	16.6 (12)	15.0 (11)	4	1782	Y/D	43	377	84	87	89	0.70	0.76	0.82	1.38 (0.0580)	166 (225)
	61R 3 x 230 VD/460 V Y	16.6 (12)	15.0 (11)	4	1782	Y/D	37/19	280/140	84	87	89	0.74	0.80	0.86	1.38 (0.0580)	121 (164)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A40.150.4.52H	9.4 (238.1)	3.1 (80)	145 (10)	66 (20)

SE1/SL1.30.A40.175.4.52H



TM06 6710 2316

Electrical data

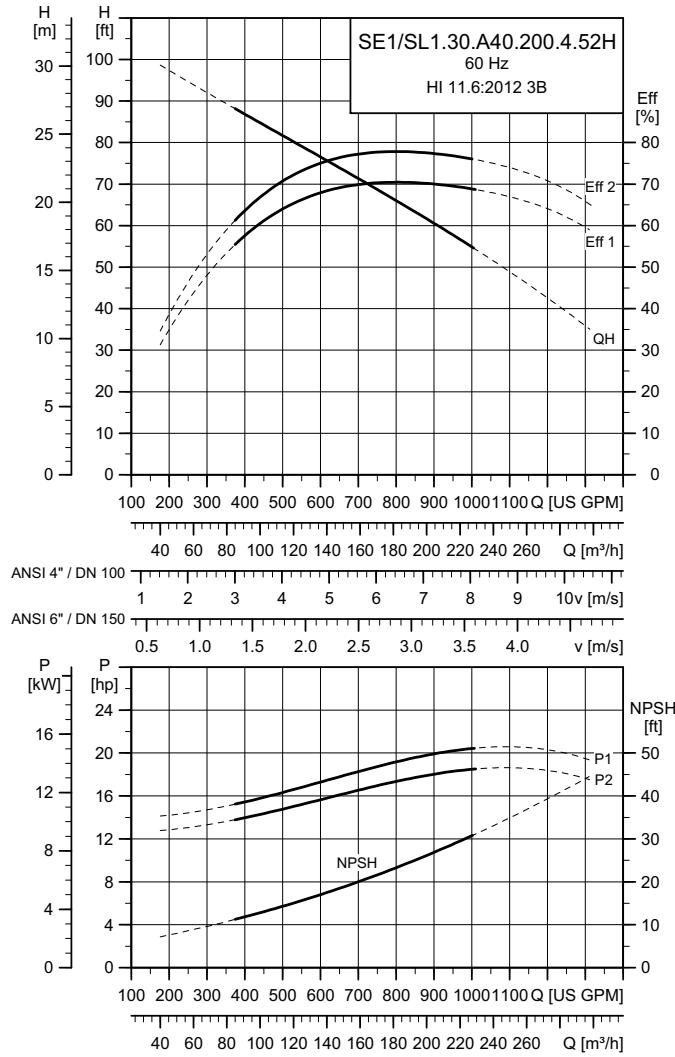
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SE1/SL1.30.A40.175.4.52H	60S 3 x 208 V	19.3 (14)	17.5 (13)	4	1785	Y/D	50	478	86	89	90	0.64	0.75	0.81	1.78 (0.0750)	260 (353)	
	61R 3 x 230 VD/460 V Y	19.3 (14)	17.5 (13)	4	1785	Y/D	44/22	420/210	86	89	90	0.66	0.77	0.83	1.78 (0.0750)	184 (249)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A40.175.4.52H	9.5 (241.7)	3.0 (80)	145 (10)	66 (20)

SE1/SL1.30.A40.200.4.52H



TM06 6711 2316

Electrical data

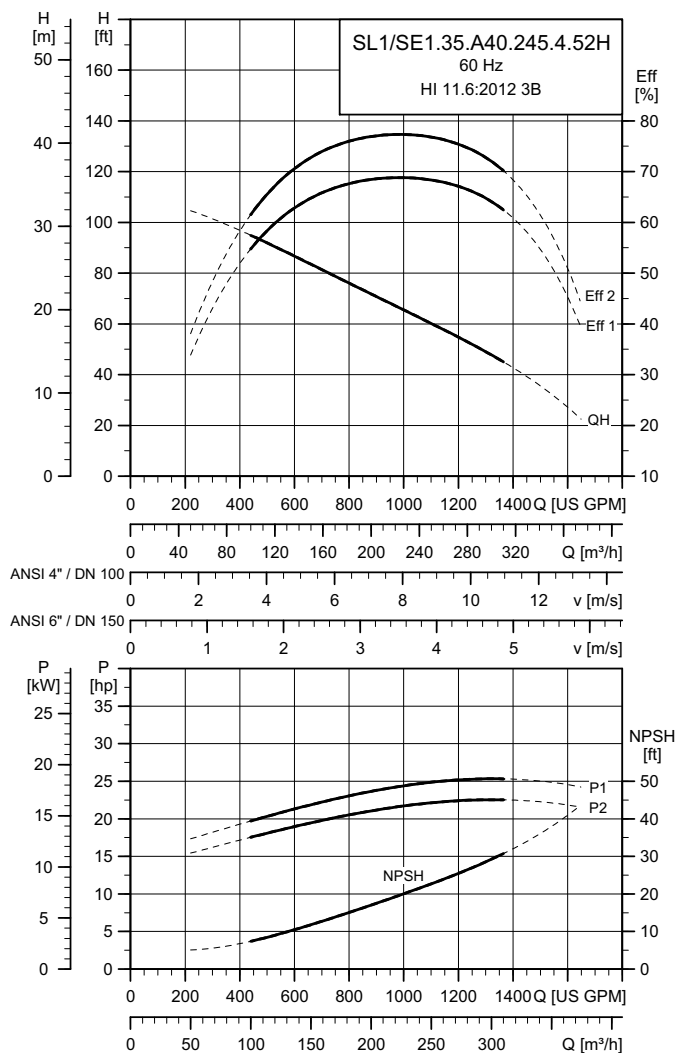
Pump type	Voltage variant	P1 P2		No. of poles	RPM	Starting method	I_N I_{start} η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]		
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2			3/4	1/1
SE1/SL1.30.A40.200.4.52H	60S 3 x 208 V	22.3 (17)	20.0 (15)	4	1783	Y/D	57	478	87	90	90	0.68	0.78	0.82	1.78 (0.0750)	260 (353)
	61R 3 x 230 VD/460 V Y	22.3 (17)	20.0 (15)	4	1783	Y/D	50/25	420/210	87	90	90	0.70	0.80	0.84	1.78 (0.0750)	184 (249)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A40.200.4.52H	9.9 (251.2)	3.0 (80)	145 (10)	66 (20)

SL1/SE1.35.A40.245.4.52H



TM06 6825 2316

Electrical data

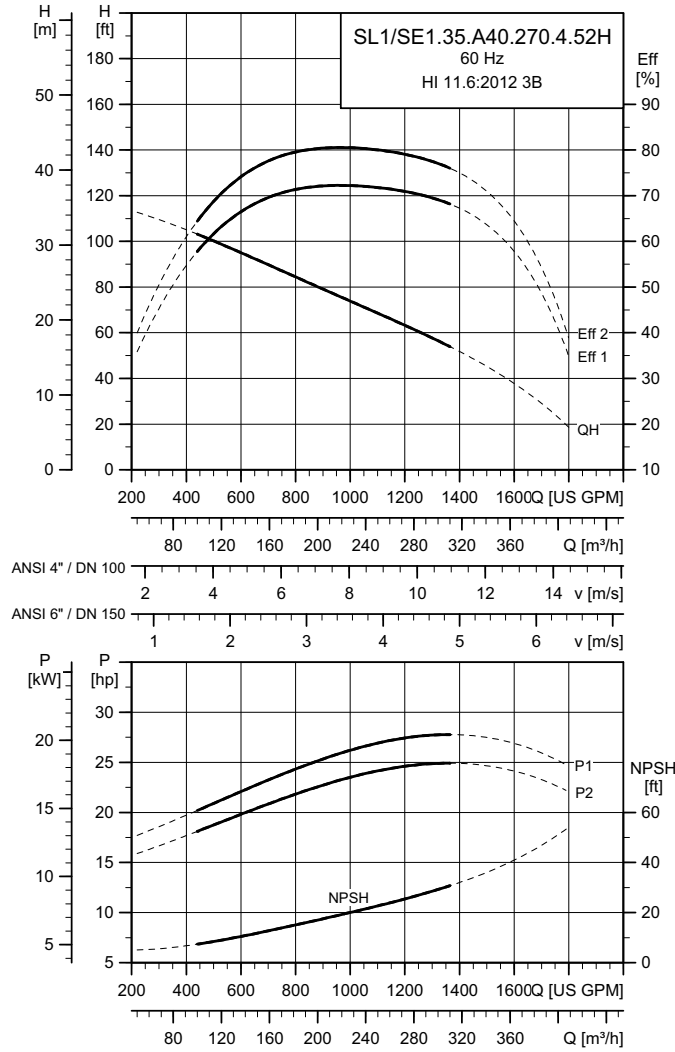
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.35.A40.245.4.52H	60S 3 x 208 V	27.1 (20)	24.5 (18)	4	1783	Y/D	70	721	87	88	89	0.66	0.74	0.81	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	27.1 (20)	24.5 (18)	4	1783	Y/D	64/32	535/268	87	88	89	0.66	0.74	0.81	1.78 (0.0750)	260 (353)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[inch (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A40.245.4.52H	10.5 (266)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.35.A40.270.4.52H



TM06 6826 2316

Electrical data

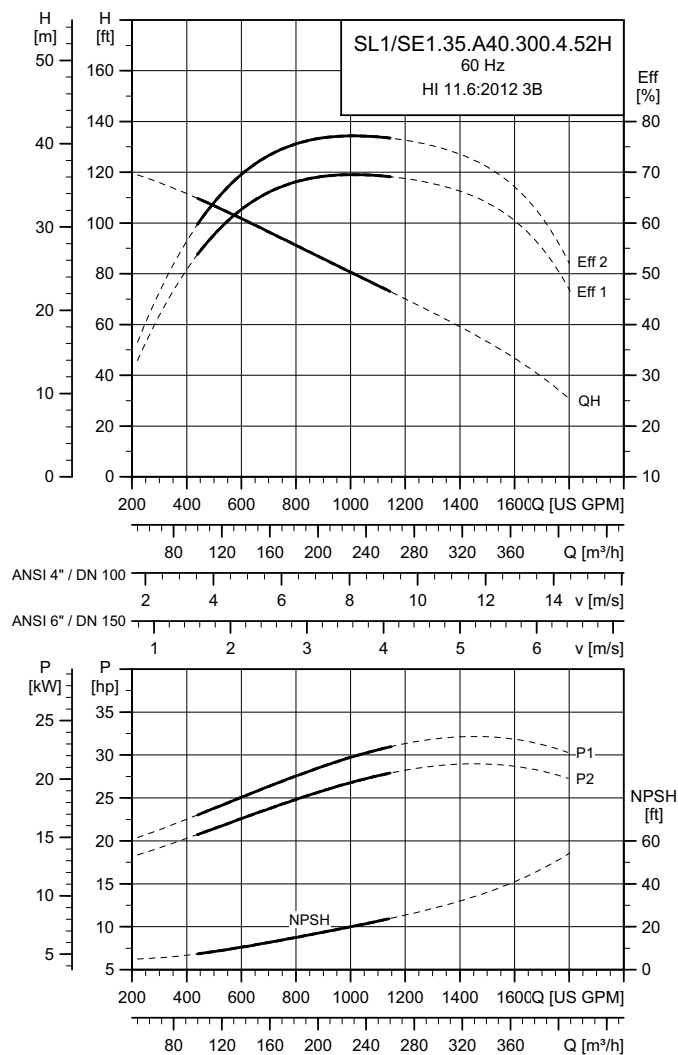
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.35.A40.270.4.52H	60S 3 x 208 V	30.0 (22)	27.0 (20)	4	1782	Y/D	76	721	88	88	89	0.68	0.77	0.83	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	30.0 (22)	27.0 (20)	4	1782	Y/D	68/34	535/268	88	88	89	0.68	0.77	0.83	1.78 (0.0750)	260 (353)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A40.270.4.52H	10.9 (276)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.35.A40.300.4.52H



TM066827 2316

Electrical data

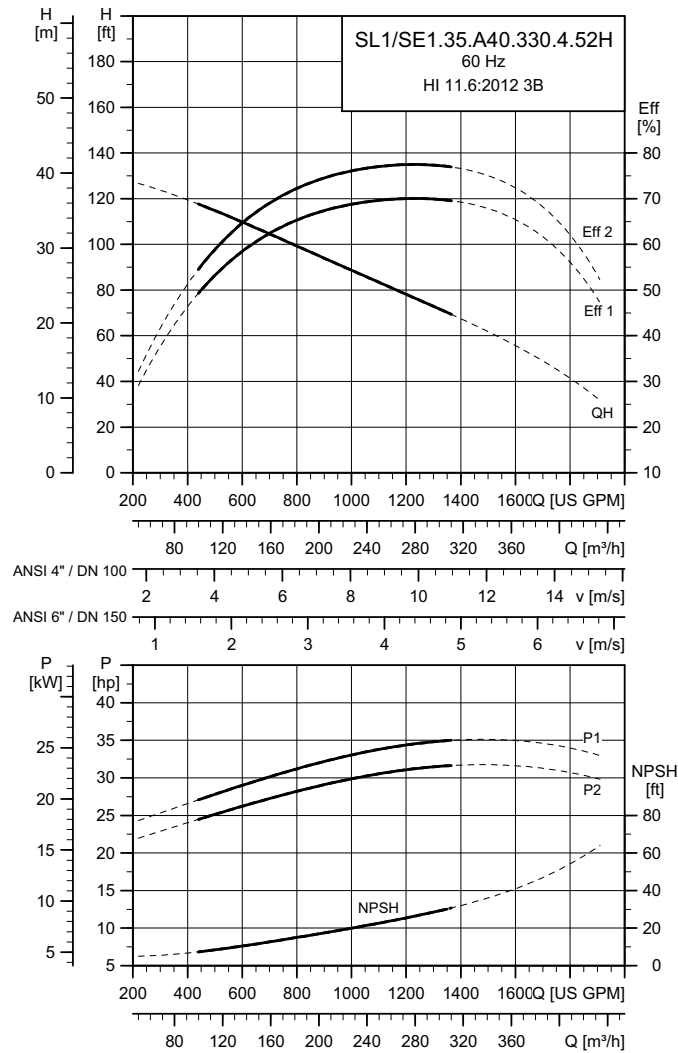
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.35.A40.300.4.52H	60S 3 x 208 V	32.9 (25)	30.0 (22)	4	1779	Y/D	81	721	88	89	90	0.70	0.79	0.84	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	32.9 (25)	30.0 (22)	4	1779	Y/D	73/37	535/268	88	89	90	0.70	0.79	0.84	1.78 (0.0750)	260 (353)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A40.300.4.52H	11 (281)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.35.A40.330.4.52H



TM066828 2316

Electrical data

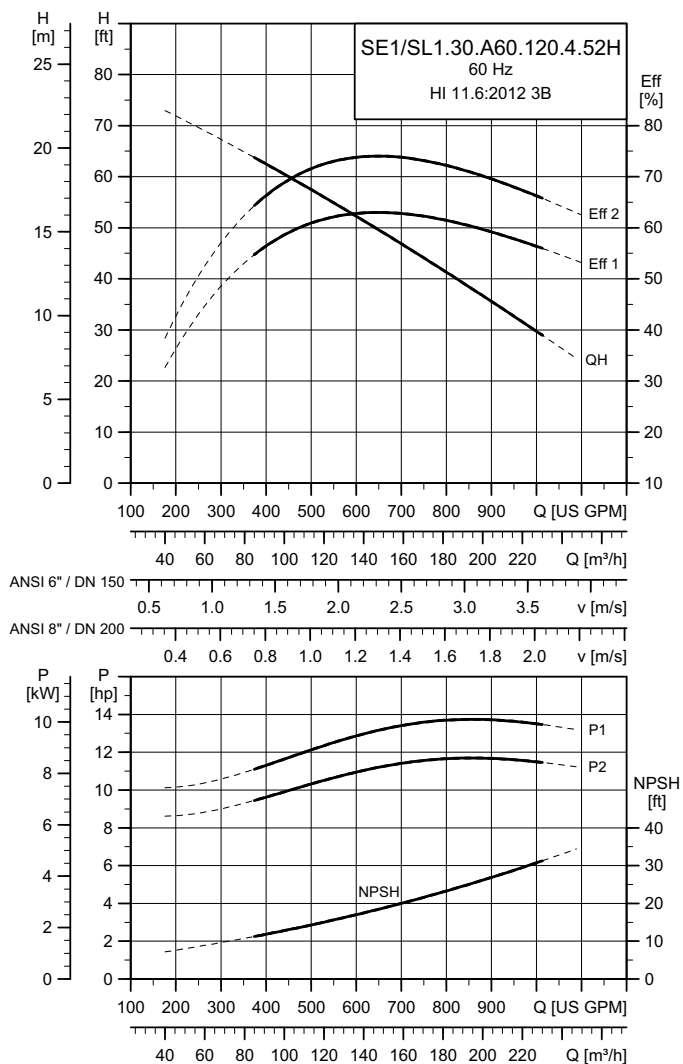
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	$I_{\text{motor}} [\%]$			$\text{Cos } \phi$			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]		
		[hp (kW)]	[hp (kW)]				1/2	3/4	1/1	1/2	3/4	1/1				
SL1/SE1.35.A40.330.4.52H	60S 3 x 208 V	36.5 (27)	33.0 (24.5)	4	1777	Y/D	88	721	88	89	90	0.72	0.81	0.86	1.78 (0.0750)	371 (503)
	61R 3 x 230 VD/460 V Y	36.5 (27)	33.0 (24.5)	4	1777	Y/D	80/40	535/268	88	89	90	0.72	0.81	0.86	1.78 (0.0750)	260 (353)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A40.330.4.52H	11.5 (292)	3.5 (85)	145 (10)	66 (20)

SE1/SL1.30.A60.120.4.52H



TM06 2272 3914

Electrical data

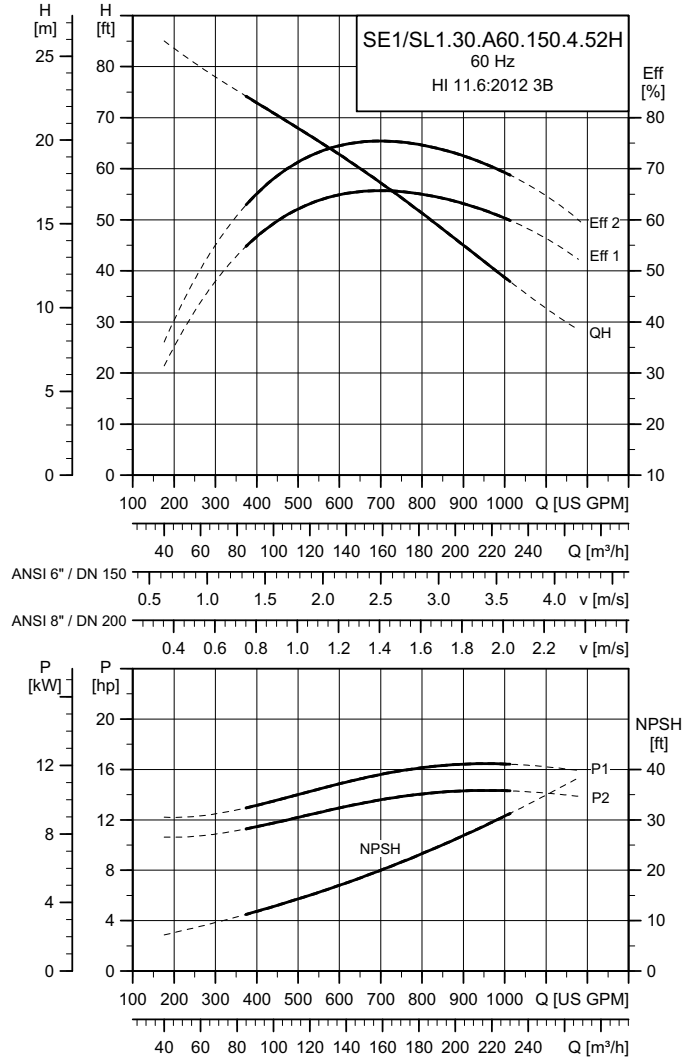
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SE1/SL1.30.A60.120.4.52H	60S 3 x 208 V	13.8 (10)	12.0 (9)	4	1785	Y/D	37	377	82	85	88	0.68	0.73	0.78	1.38 (0.0580)	166 (225)
	61R 3 x 230 VD/460 V Y	13.8 (10)	12.0 (9)	4	1785	Y/D	32/16	280/140	82	85	88	0.72	0.77	0.82	1.38 (0.0580)	121 (164)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A60.120.4.52H	8.9 (225.7)	3.0 (80)	145 (10)	66 (20)

SE1/SL1.30.A60.150.4.52H



TM06 2273 3914

Electrical data

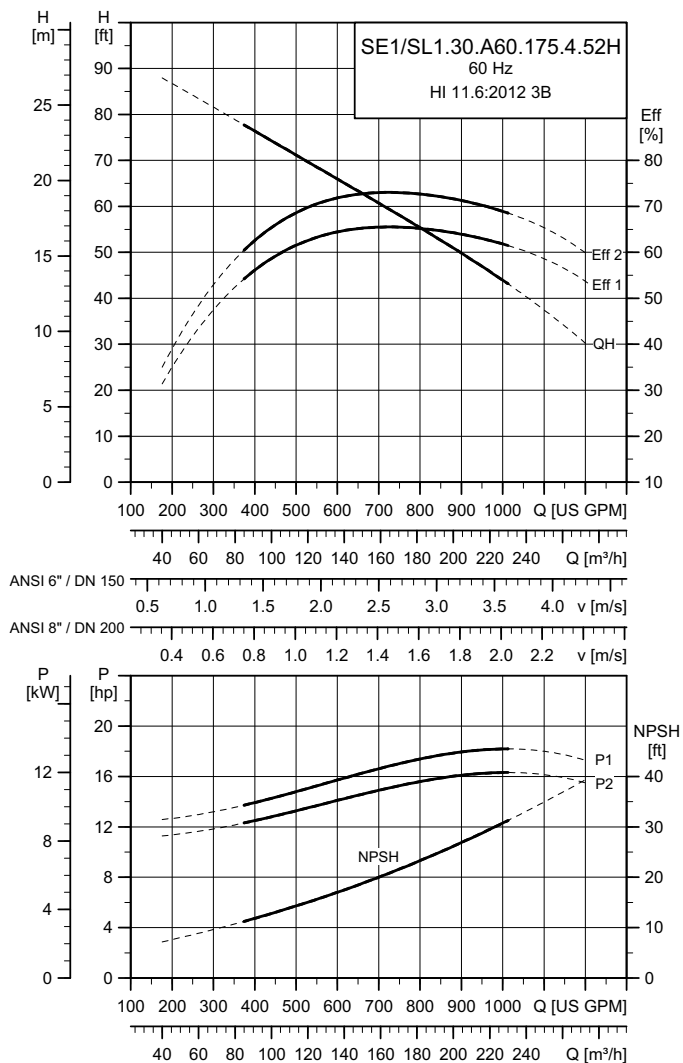
Pump type	Voltage variant	P1 P2		No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SE1/SL1.30.A60.150.4.52H	60S 3 x 208 V	16.6 (12)	15.0 (11)	4	1782	Y/D	43	377	84	87	89	0.70	0.76	0.82	1.38 (0.0580)	166 (225)
	61R 3 x 230 VD/460 V Y	16.6 (12)	15.0 (11)	4	1782	Y/D	37/19	280/140	84	87	89	0.74	0.80	0.86	1.38 (0.0580)	121 (164)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A60.150.4.52H	9.4 (238.1)	3.0 (80)	145 (10)	66 (20)

SE1/SL1.30.A60.175.4.52H



TM06 2274 3914

Electrical data

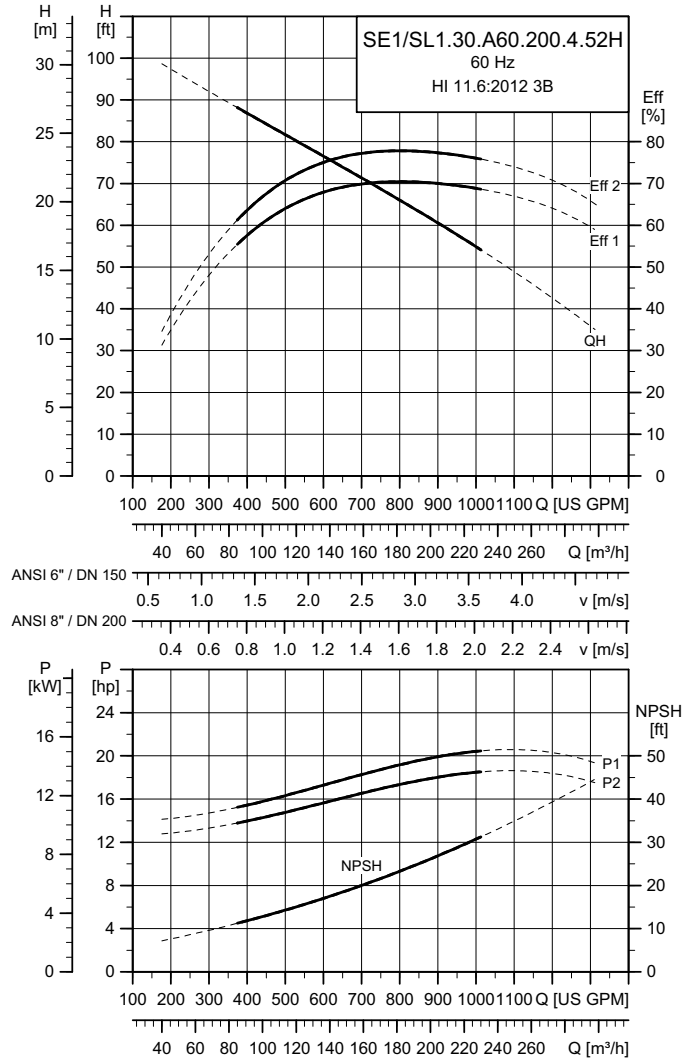
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N I _{start} η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft (Nm)]		
		[hp (kW)]	[hp (kW)]				1/2	3/4	1/1	1/2	3/4	1/1				
SE1/SL1.30.A60.175.4.52H	60S 3 x 208 V	19.3 (14)	17.5 (13)	4	1785	Y/D	50	478	86	89	90	0.64	0.75	0.81	1.78 (0.0750)	260 (353)
	61R 3 x 230 VD/460 V Y	19.3 (14)	17.5 (13)	4	1785	Y/D	44/22	420/210	86	89	90	0.66	0.77	0.83	1.78 (0.0750)	184 (249)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A60.175.4.52H	9.5 (241.7)	3.0 (80)	145 (10)	66 (20)

SE1/SL1.30.A60.200.4.52H



TM06 2275 3914

Electrical data

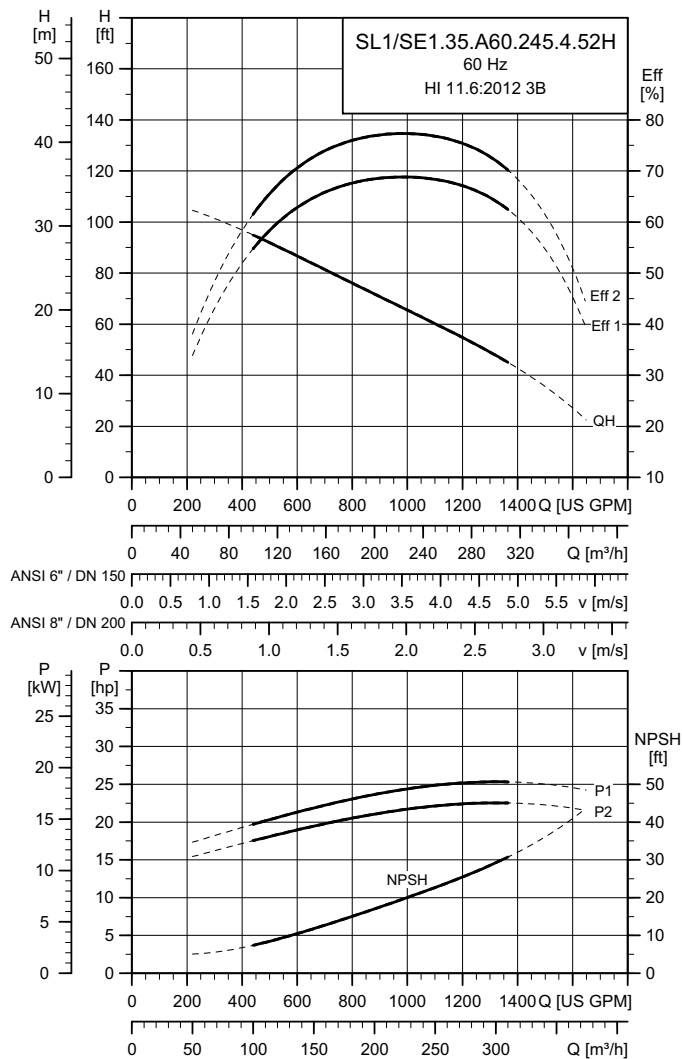
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N [A]	I _{start} [A]	η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SE1/SL1.30.A60.200.4.52H	60S 3 x 208 V	22.3 (17)	20.0 (15)	4	1783	Y/D	57	478	87	90	90	0.68	0.78	0.82	1.78 (0.0750)	260 (353)
	61R 3 x 230 VD/460 V Y	22.3 (17)	20.0 (15)	4	1783	Y/D	50/25	420/210	87	90	90	0.70	0.80	0.84	1.78 (0.0750)	184 (249)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SE1/SL1.30.A60.200.4.52H	9.9 (251.2)	3.0 (80)	145 (10)	66 (20)

SL1/SE1.35.A60.245.4.52H



TM05 4108 14 14

Electrical data

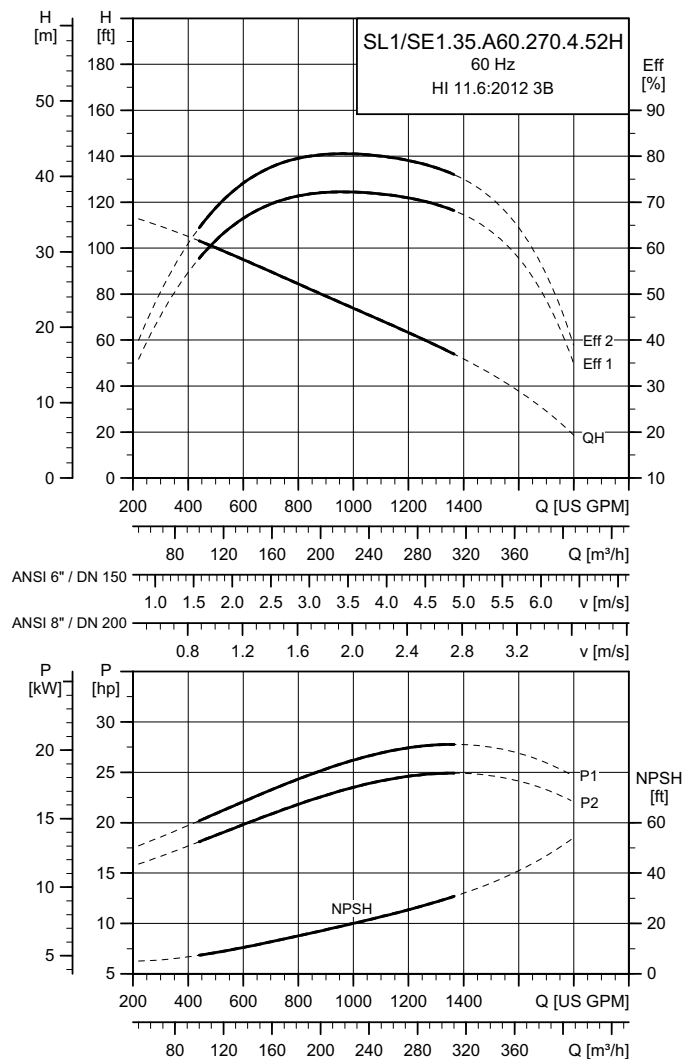
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			$\eta_{\text{motor}} [\%]$			$\text{Cos } \phi$			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.35.A60.245.4.52H	60S 3 x 208 V	27.1 (20)	24.5 (18)	4	1783	Y/D	70	721	87	88	89	0.66	0.74	0.81	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	27.1 (20)	24.5 (18)	4	1783	Y/D	64/32	535/268	87	88	89	0.66	0.74	0.81	1.78 (0.0750)	260 (353)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A60.245.4.52H	10.5 (266)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.35.A60.270.4.52H



TM05 4109 14 14

Electrical data

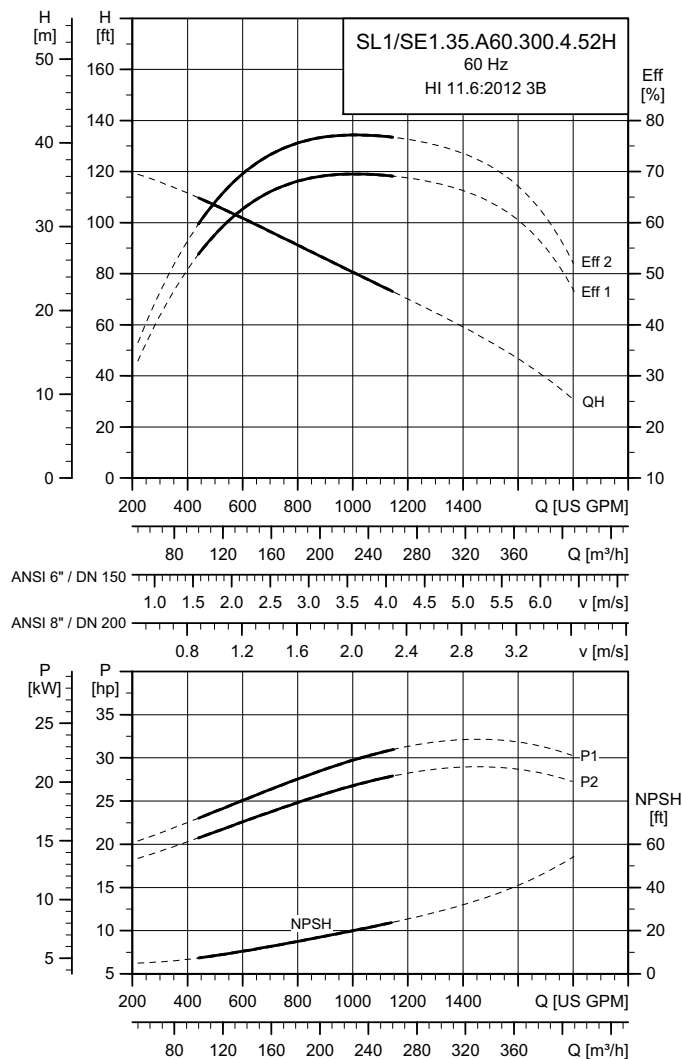
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.35.A60.270.4.52H	60S 3 x 208 V	30.0 (22)	27.0 (20)	4	1782	Y/D	76	721	88	88	89	0.68	0.77	0.83	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	30.0 (22)	27.0 (20)	4	1782	Y/D	68/34	535/268	88	88	89	0.68	0.77	0.83	1.78 (0.0750)	260 (353)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A60.270.4.52H	10.9 (276)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.35.A60.300.4.52H



TM05 4110 1414

Electrical data

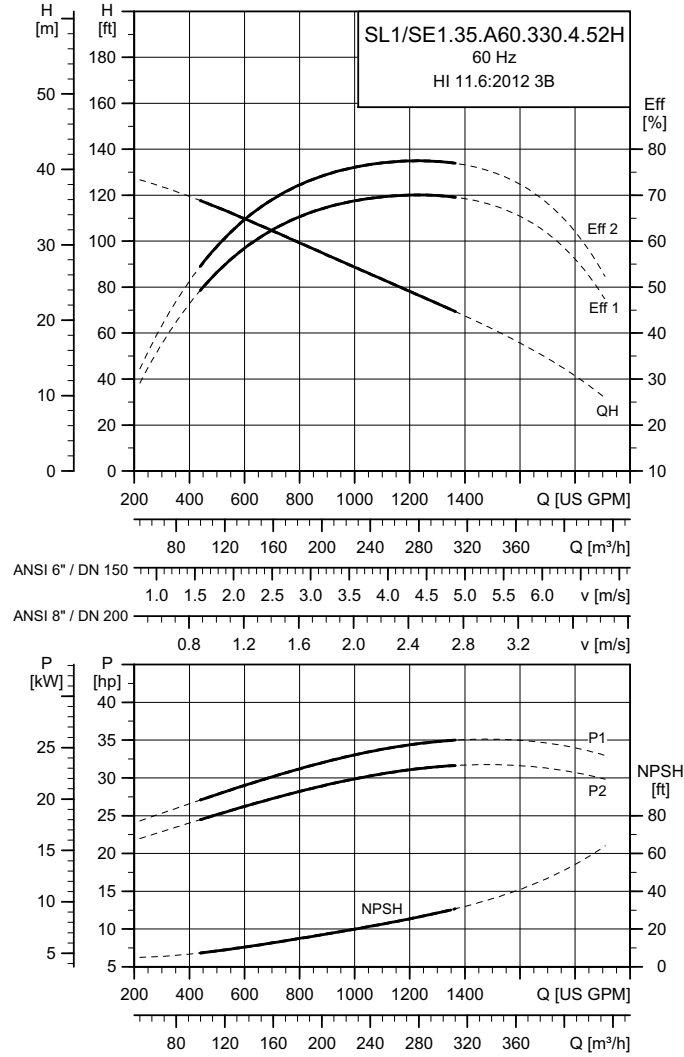
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			I_{start}			η_{motor} [%]			$\cos \phi$			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.35.A60.300.4.52H	60S 3 x 208 V	32.9 (25)	30.0 (22)	4	1779	Y/D	81	721	88	89	90	0.70	0.79	0.84	1.78 (0.0750)	371 (503)				
	61R 3 x 230 VD/460 V Y	32.9 (25)	30.0 (22)	4	1779	Y/D	73/37	535/268	88	89	90	0.70	0.79	0.84	1.78 (0.0750)	260 (353)				

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A60.300.4.52H	11 (281)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.35.A60.330.4.52H



TM05 4111 1414

Electrical data

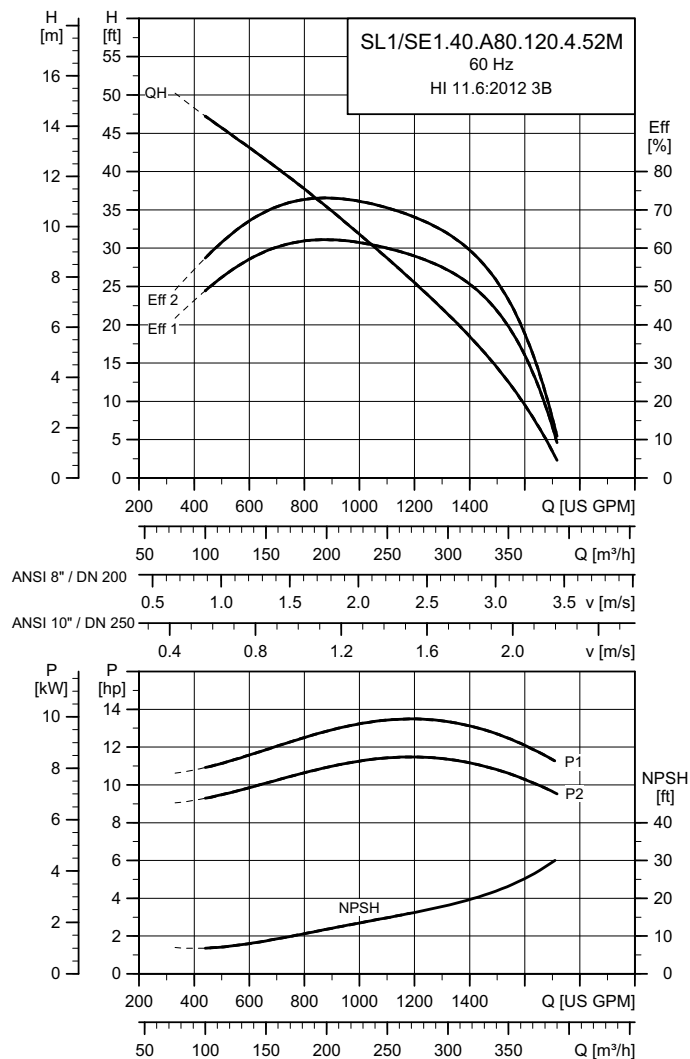
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N I_{start} η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]		
		[hp (kW)]	[hp (kW)]				1/2	3/4	1/1	1/2	3/4	1/1				
SL1/SE1.35.A60.330.4.52H	60S 3 x 208 V	36.5 (27)	33.0 (24.5)	4	1777	Y/D	88	721	88	89	90	0.72	0.81	0.86	1.78 (0.0750)	371 (503)
	61R 3 x 230 VD/460 V Y	36.5 (27)	33.0 (24.5)	4	1777	Y/D	80/40	535/268	88	89	90	0.72	0.81	0.86	1.78 (0.0750)	260 (353)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.35.A60.330.4.52H	11.5 (292)	3.5 (85)	145 (10)	66 (20)

SL1/SE1.40.A80.120.4.52M



TM06 4276 1815

Electrical data

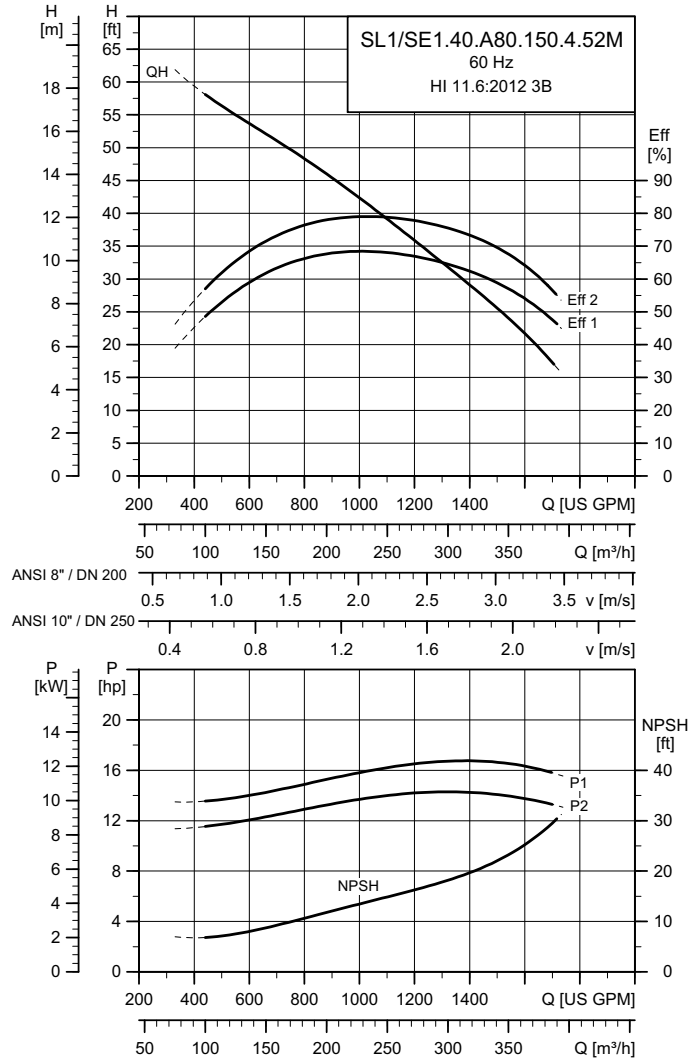
Pump type	Voltage variant		P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
			[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.40.A80.120.4.52M	60S	3 x 208 V	13.8 (10)	12.0 (9)	4	1785	Y/D	37	377	82	85	88	0.68	0.73	0.78	1.38 (0.0580)	166 (225)	
	61R	3 x 230 VD/ 460 V Y	13.8 (10)	12.0 (9)	4	1785	Y/D	32/ 16	280/ 140	82	85	88	0.72	0.77	0.82	1.38 (0.0580)	121 (164)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.40.A80.120.4.52M	8.6 (220)	4.0 (105)	145 (10)	66 (20)

SL1/SE1.40.A80.150.4.52M



TM06 4277 1815

Electrical data

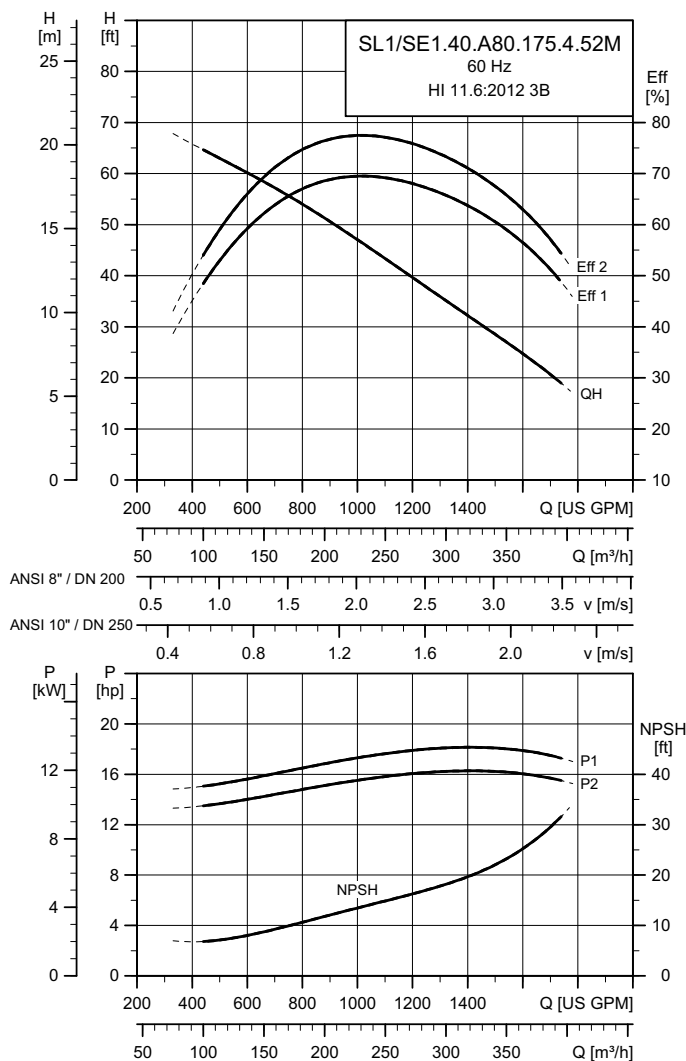
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.40.A80.150.4.52M	60S 3 x 208 V	16.6 (12)	15.0 (11)	4	1782	Y/D	43	377	84	87	89	0.70	0.76	0.82	1.38 (0.0580)	166 (225)	
	61R 3 x 230 VD/460 V Y	16.6 (12)	15.0 (11)	4	1782	Y/D	37/19	280/140	84	87	89	0.74	0.80	0.86	1.38 (0.0580)	121 (164)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.40.A80.150.4.52M	9.1 (231)	4.0 (105)	145 (10)	66 (20)

SL1/SE1.40.A80.175.4.52M



TM06 4278 1815

Electrical data

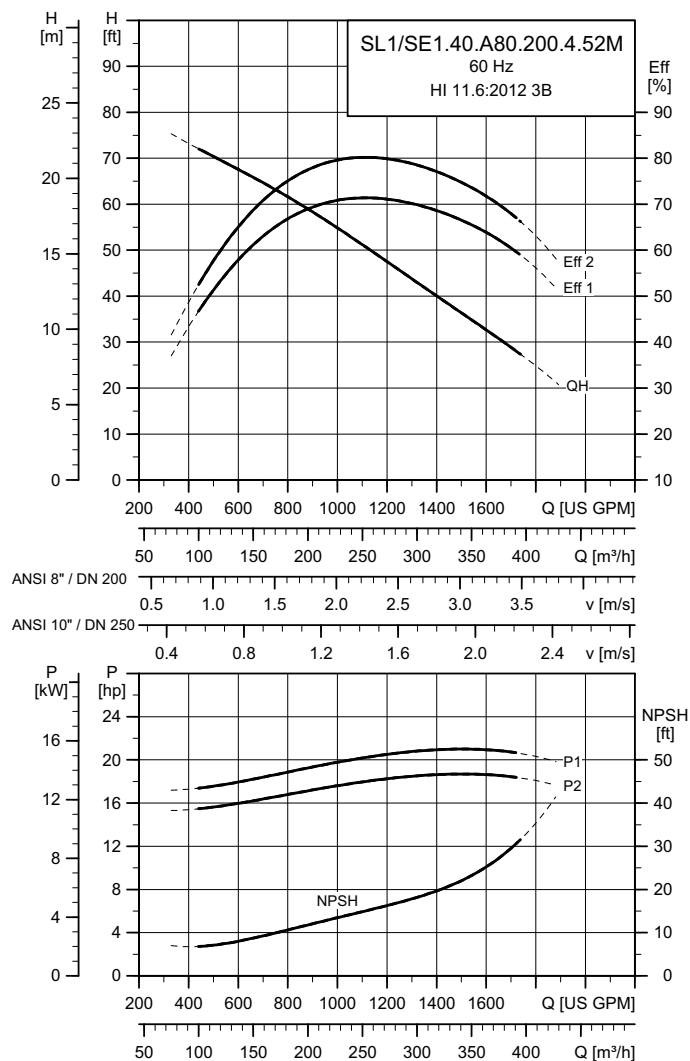
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.40.A80.175.4.52M	60S 3 x 208 V	19.3 (14)	17.5 (13)	4	1785	Y/D	50	478	86	89	90	0.64	0.75	0.81	1.78 (0.0750)	260 (353)	
	61R 3 x 230 VD/460 V Y	19.3 (14)	17.5 (13)	4	1785	Y/D	44/22	420/210	86	89	90	0.66	0.77	0.83	1.78 (0.0750)	184 (249)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.40.A80.175.4.52M	9.2 (233)	4.0 (105)	145 (10)	66 (20)

SL1/SE1.40.A80.200.4.52M



TM06 4279 1815

Electrical data

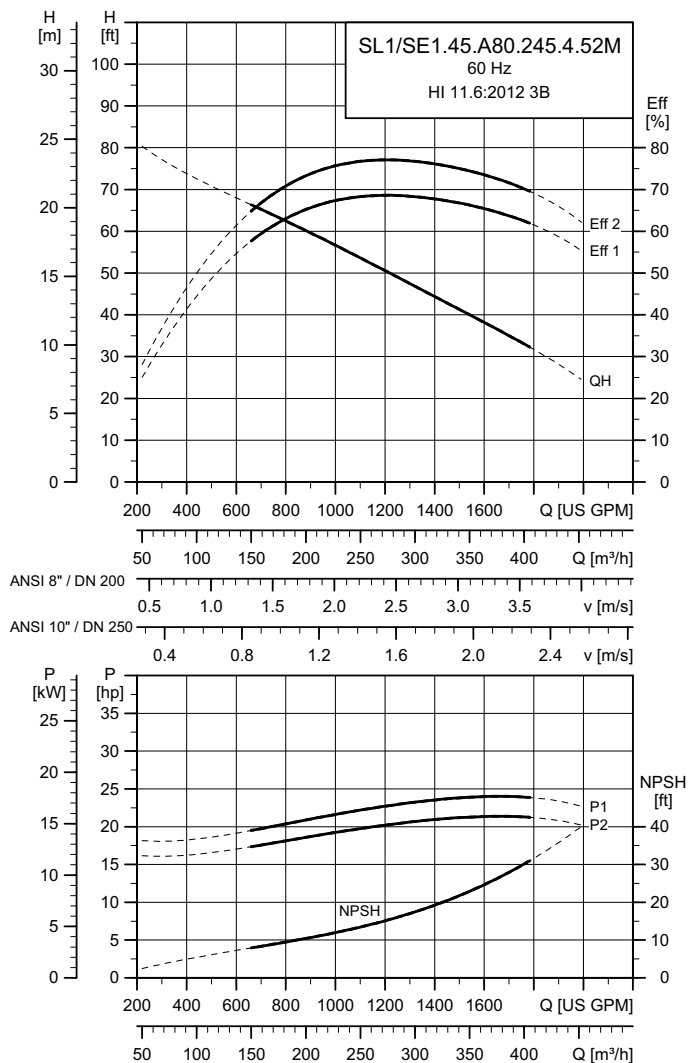
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N	I_{start}	η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft ² (Nm)]
		[hp (kW)]	[hp (kW)]						1/2	3/4	1/1	1/2	3/4	1/1		
SL1/SE1.40.A80.200.4.52M	60S 3 x 208 V	22.3 (17)	20.0 (15)	4	1783	Y/D	57	478	87	90	90	0.68	0.78	0.82	1.78 (0.0750)	260 (353)
	61R 3 x 230 VD/460 V Y	22.3 (17)	20.0 (15)	4	1783	Y/D	50/25	420/210	87	90	90	0.70	0.80	0.84	1.78 (0.0750)	184 (249)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.40.A80.200.4.52M	9.5 (240.5)	4.0 (105)	145 (10)	66 (20)

SL1/SE1.45.A80.245.4.52M



TM05 4112 1414

Electrical data

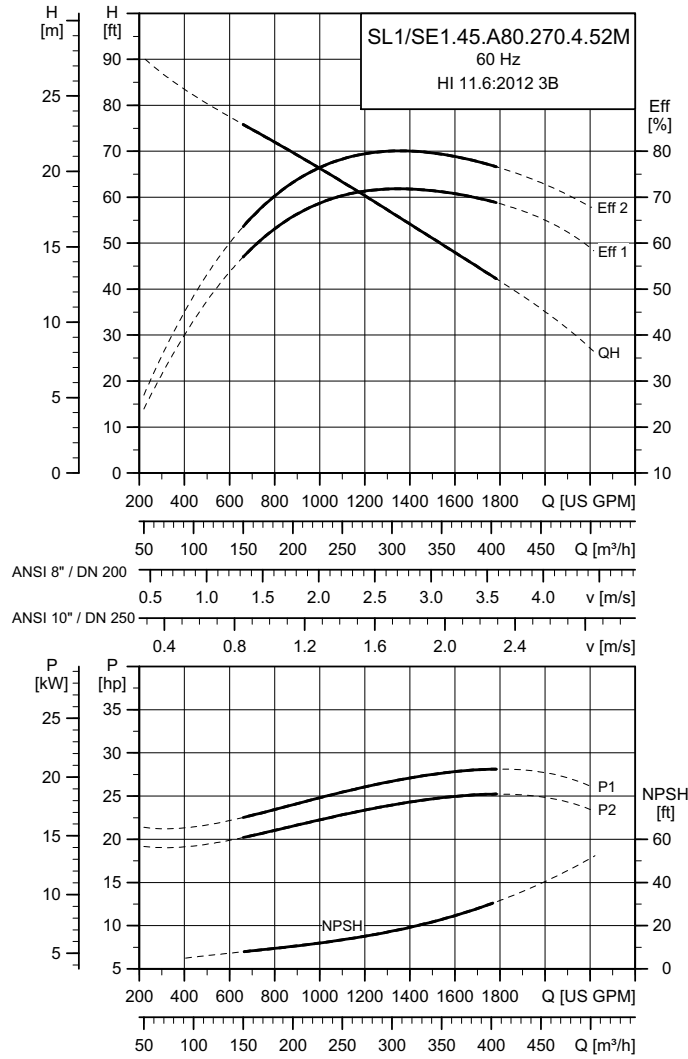
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I _N			I _{start}			η _{motor} [%]			Cos φ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M _{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1						
SL1/SE1.45.A80.245.4.52M	60S 3 x 208 V	27.1 (20)	24.5 (18)	4	1783	Y/D	70	721	87	88	89	0.66	0.74	0.81	1.78 (0.0750)	371 (503)				
	61R 3 x 230 VD/460 V Y	27.1 (20)	24.5 (18)	4	1783	Y/D	64/32	535/268	87	88	89	0.66	0.74	0.81	1.78 (0.0750)	260 (353)				

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.45.A80.245.4.52M	9.7 (246)	4.5 (110)	145 (10)	66 (20)

SL1/SE1.45.A80.270.4.52M



TM05 4113 1414

Electrical data

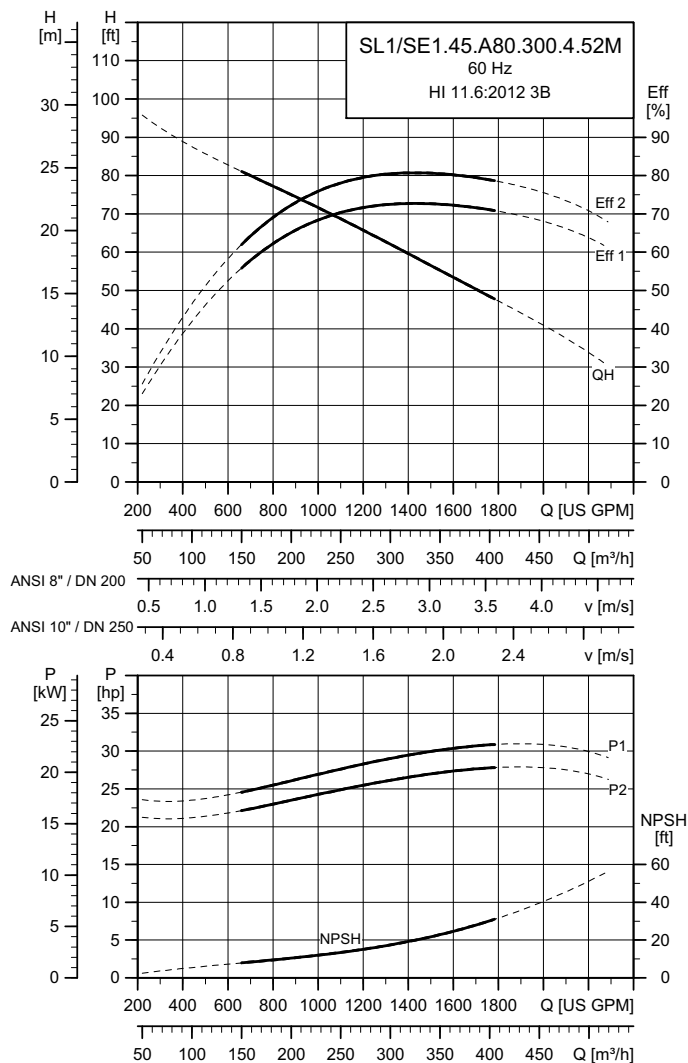
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.45.A80.270.4.52M	60S 3 x 208 V	30.0 (22)	27.0 (20)	4	1782	Y/D	76	721	88	88	89	0.68	0.77	0.83	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	30.0 (22)	27.0 (20)	4	1782	Y/D	68/32	535/268	88	88	89	0.68	0.77	0.83	1.78 (0.0750)	260 (353)	

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.45.A80.270.4.52M	10 (256)	4.5 (110)	145 (10)	66 (20)

SL1/SE1.45.A80.300.4.52M



TM05 4114 1414

Electrical data

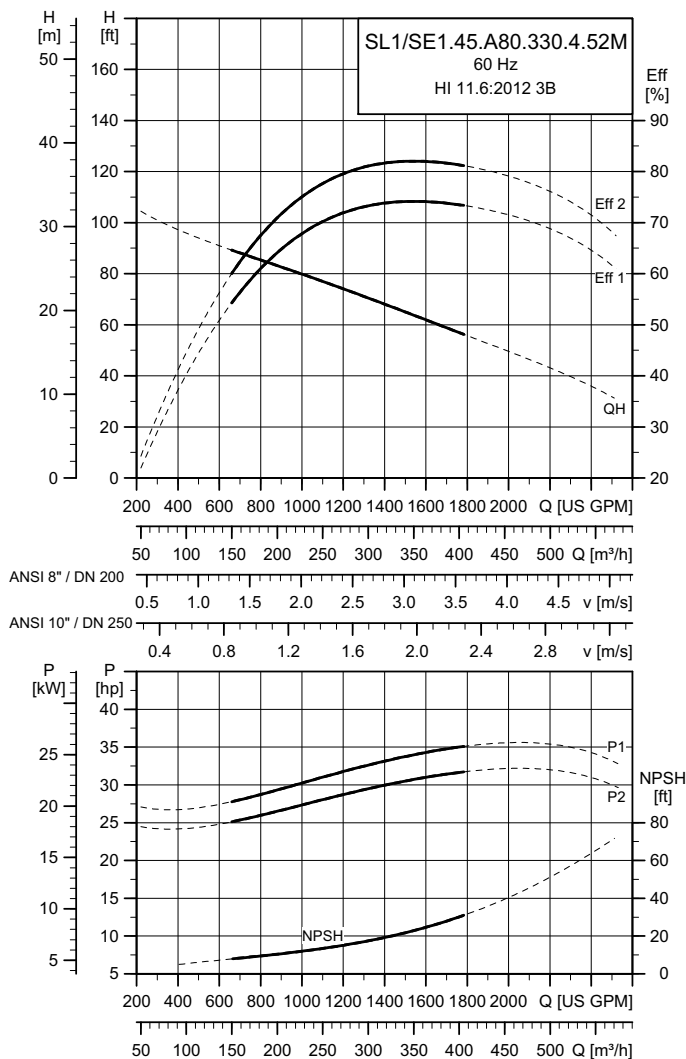
Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N I_{start} η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]		
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2			3/4	1/1
SL1/SE1.45.A80.300.4.52M	60S 3 x 208 V	32.9 (25)	30.0 (22)	4	1779	Y/D	81	721	88	89	90	0.70	0.79	0.84	1.78 (0.0750)	371 (503)
	61R 3 x 230 VD/460 V Y	32.9 (25)	30.0 (22)	4	1779	Y/D	73/37	535/268	88	89	90	0.70	0.79	0.84	1.78 (0.0750)	260 (353)

Note: Enclosure class: IP68

Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.45.A80.300.4.52M	10.4 (264)	4.5 (110)	145 (10)	66 (20)

SL1/SE1.45.A80.330.4.52M



TM05 4115 1414

Electrical data

Pump type	Voltage variant	P1	P2	No. of poles	RPM	Starting method	I_N			η_{motor} [%]			Cos ϕ			Moment of inertia [lbft ² (kgm ²)]	Breakdown torque M_{max} [lbft (Nm)]
		[hp (kW)]	[hp (kW)]				[A]	[A]	1/2	3/4	1/1	1/2	3/4	1/1			
SL1/SE1.45.A80.330.4.52M	60S 3 x 208 V	36.5 (27)	33.0 (24.5)	4	1776	Y/D	88	721	88	89	90	0.72	0.81	0.86	1.78 (0.0750)	371 (503)	
	61R 3 x 230 VD/460 V Y	36.5 (27)	33.0 (24.5)	4	1776	Y/D	80/40	535/268	88	89	90	0.72	0.81	0.86	1.78 (0.0750)	260 (353)	

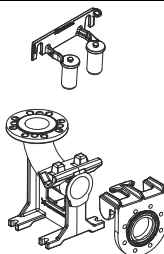
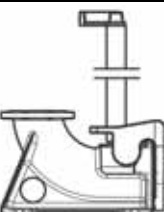
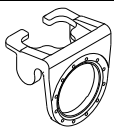
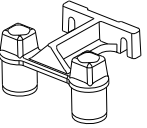
Note: Enclosure class: IP68

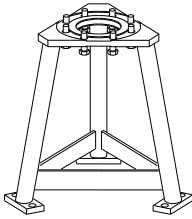
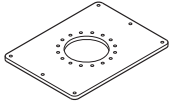
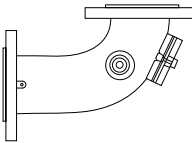
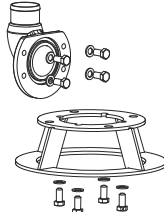
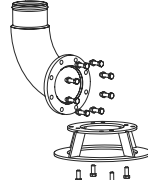
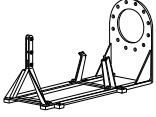
Pump data

Pump type	Impeller diameter	Max. solids size	Pump housing pressure	Max. installation depth
	[in (mm)]	[in (mm)]	[PSI (PN)]	[ft (m)]
SL1/SE1.45.A80.330.4.52M	10.8 (274.5)	4.5 (110)	145 (10)	66 (20)


11. Accessories

Installation systems

Picture	Description	Dimensions	SEV.XX.A30	SLV.XX.A30	SE1.XX.A40	SL1.XX.A40	SE1.XX.A60	SL1.XX.A60	SE1.XX.A80	SL1.XX.A80	SE1.XX.A100	SL1.XX.A100	SE2.XX.A100	SL2.XX.A100	SE1.XX.A120	SL1.XX.A120	Product number	
	<p>Complete auto-coupling system, including guide claw, base plate and upper guide rail bracket. With bolts, nuts and gaskets. Note: If your guide rails exceed 19.7 ft. (6 m), please consider the use of intermediate guide rail brackets to support your system.</p>	4 7/8" x ANSI 100/80	•	•													97626239	
		4" x ANSI 100 cpl.			•	•												97626238
		6" ANSI with 2" upper guide rail bracket						•	•									97626240
		6" ANSI with 3" upper guide rail bracket						•	•									97695489
		8" ANSI with 3" upper guide rail bracket								•	•							97506541
	<p>Complete auto-coupling system, including guide claw, base plate and upper guide rail bracket. With bolts, nuts and gaskets. For pump discharge flanges sized 10" and above, the guide claw is fitted to the pump discharge flange. For flanges below 10", the guide claw is delivered with the auto-coupling kit.</p>	ANSI 10" G								•	•	•	•			97510048		
		Kit, auto coupling ANSI 12" G														•	•	97510049
	<p>Complete guide claw Ductile iron BS EN 1563 EN-GJS-500/7</p>	ANSI 10"									•	•	•	•			97842430	
		ANSI 12"														•	•	97842432
	<p>Intermediate 4" (101.6 mm) guide rail bracket. For guide rails longer than 19.5 feet (6 m)</p>	ANSI 3" ASTM A351 CF8M (IGRH DN80, EN1.4408, cpl.)	•	•													96825142	
		ANSI 4" ASTM A351 CF8M (IGRH DN100, EN1.4408, cpl.)			•	•												96825161
		ANSI 5" / ANSI 6" (DN125 / DN150) 2" guide rails					•	•										96887674
		ANSI 5" / ANSI 6" (DN125 / DN150) 3" guide rails					•	•										96829331
		ANSI 8" / ANSI 24" (DN200 / DN600)							•	•	•	•	•	•	•	•	•	97918997

Picture	Description	Dimensions	SEV.XX.A30	SLV.XX.A30	SE1.XX.A40	SL1.XX.A40	SE1.XX.A60	SL1.XX.A60	SE1.XX.A80	SL1.XX.A80	SE1.XX.A100	SL1.XX.A100	SE2.XX.A100	SL2.XX.A100	SE1.XX.A120	SL1.XX.A120	Product number	
	Dry vertical installation kit TM05 3869 1712	ANSI 4" (DN 100)	•		•												96845469	
		ANSI 6" (DN 150)					•										96308238	
		ANSI 6", R (DN 150 R) (Wetted part of stainless steel)					•										96835614	
		ANSI 8" (DN 200)							•		•						96094523	
		ANSI 8", R (DN 200 R) (Wetted part of stainless steel)							•		•						96090119	
	Base plate for vertical, dry installation. With gaskets and bolts. Steel, epoxy-coated. TM03 2015 3505	ANSI 10" (DN 250)										•				96857815		
		ANSI 12" (DN 300)													•	96857816		
	Cast iron suction elbow with cleaning hole and 125 LB flanges with slotted holes. TM05 9670 4313	ANSI 4"/4"22	•		•												98570864	
		ANSI 4"/6"22	•		•													98570865
		ANSI 6"/6"22					•	•										98570866
		ANSI 6"/8"22					•	•										98570867
		ANSI 8"/8"22							•	•								98570868
		ANSI 8"/10"2							•	•								98570869
		ANSI 12"/12"														•	•	98570870
ANSI 12"/14"														•	•	98570881		
	Ring stand with flanged 90 ° elbow and hose connection or outside thread connection. With bolts, nuts, gaskets and anchor bolts. TM05 3871 1712	4"/3" x ANSI 100/80 cpl.	•	•													97632229	
		4"/3" ANSI w. thread cpl.	•	•														97632241
		4" ANSI 100 cpl.			•	•												97632278
		4" ANSI 100 w. thread cpl.			•	•												97632280
		6" ANSI cpl.					•	•										96102256
6" ANSI w. thread cpl.					•	•										96102385		
	Ring stand with flanged 90 ° elbow and hose connection With bolts, nuts, gaskets and anchor bolts. TM05 3870 1712	Kit, transportable ANSI 8"/8 G (DN200/200)							•	•							96789480	
		Kit, transportable ANSI 8"/8 R (DN200/200)							•	•								96898277
	Horizontal base stand with bolts and nuts Note: Horizontal base stand is included in the pump TM053866 1712	ANSI 4"	•		•												98113363	
		ANSI 6"					•										98113365	
		ANSI 8"							•		•						98113366	
		ANSI 10"										•					98113368	
		ANSI 12"													•		98113370	
		ANSI 2 1/2"																97900341
Adaptor for Flygt type auto couplings		ANSI 3"	•	•													97900652	
		ANSI 3"/ 4"	•	•													97903560	
		ANSI 4"			•	•											97905213	
		ANSI 4"/ 6"			•	•											97906322	
		ANSI 6" for 2" guide rails					•	•									98061131	
		ANSI 6" for 3" guide rails					•	•									98061107	
		ANSI 8"							•	•							98377111	
		ANSI 10"									•	•	•	•			98377112	
		ANSI 12"														•	98419130	

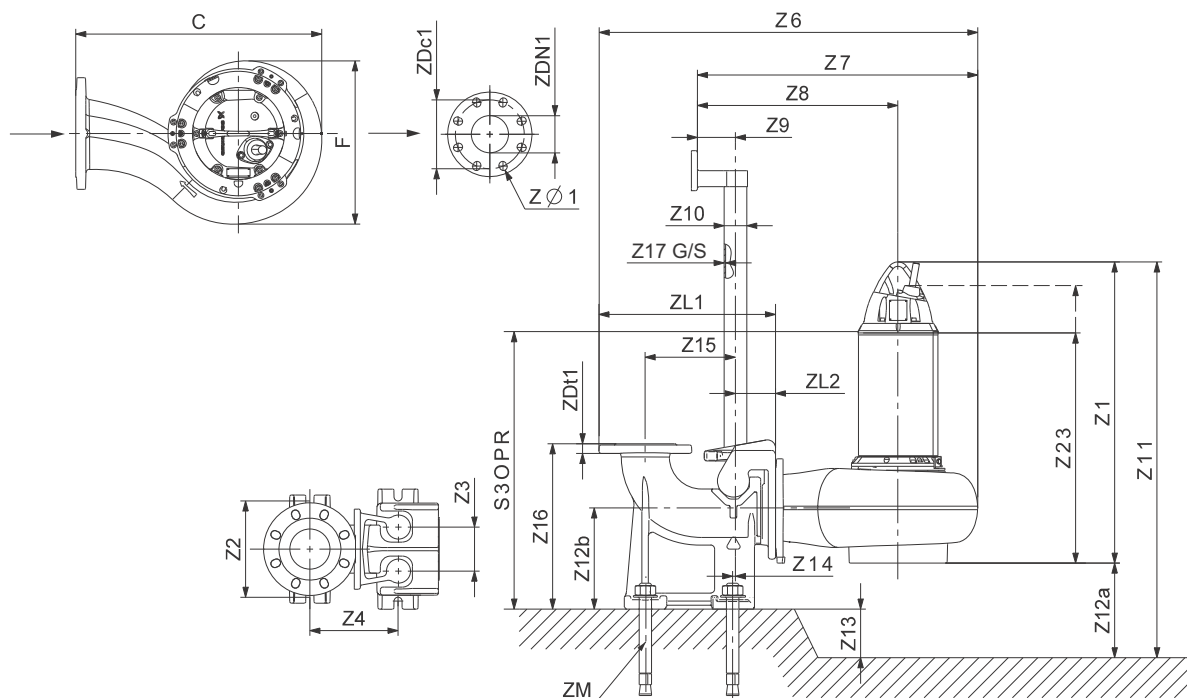
Other accessories

Picture	Description	Length [ft (m)]	Max. load [lb (kg)]	Pump type	Product number
	Lifting chain Galvanised steel, certified, complete	6.6 (2)	1764 (800)	All	98425759
		13.1 (4)			98425760
		20.0 (6)			98425781
		26.2 (8)			98425782
		33.0 (10)			98425783
	Lifting chain Stainless steel , certified, complete	6.6 (2)			98425796
		13.1 (4)			98425797
		20.0 (6)			98425798
		26.2 (8)			98425799
		33.0 (10)			98425800

TM02 6126 51 02

12. Dimensions

Auto coupling



TMM05 2579 3516

Fig. 25 Auto coupling dimensions

SE1/SEV

Pump type	C in (mm)	F in (mm)	ZØ1 in (mm)	Z1 in (mm)	Z2 in (mm)	Z3 in (mm)	Z4 in (mm)	Z6 in (mm)	Z7 in (mm)	Z8 in (mm)	Z9 in (mm)	Z10 in (mm)	Z11 in (mm)	Z12a in (mm)	Z12b in (mm)
SE1.30.A40.175.2.52S.C	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SE1.30.A40.200.2.52S.C	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SE1.30.A40.230.2.52S.C	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SE1.30.A40.250.2.52S.C	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SE1.30.A40.120.4.52H.C	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SE1.30.A40.150.4.52H.C	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SE1.30.A40.175.4.52H.C	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SE1.30.A40.200.4.52H.C	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SE1.35.A40.245.4.52H.C	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SE1.35.A40.270.4.52H.C	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SE1.35.A40.300.4.52H.C	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SE1.35.A40.330.4.52H.C	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SE1.30.A60.120.4.52H.C	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)

Pump type	C in (mm)	F in (mm)	ZØ1 in (mm)	Z1 in (mm)	Z2 in (mm)	Z3 in (mm)	Z4 in (mm)	Z6 in (mm)	Z7 in (mm)	Z8 in (mm)	Z9 in (mm)	Z10 in (mm)	Z11 in (mm)	Z12a in (mm)	Z12b in (mm)
SE1.30.A60.150.4.52H.C	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.30.A60.175.4.52H.C	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.30.A60.200.4.52H.C	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.35.A60.245.4.52H.C	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.35.A60.270.4.52H.C	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.35.A60.300.4.52H.C	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.35.A60.330.4.52H.C	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SE1.40.A80.120.4.52M.C	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SE1.40.A80.150.4.52M.C	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SE1.40.A80.175.4.52M.C	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SE1.40.A80.200.4.52M.C	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SE1.45.A80.245.4.52M.C	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SE1.45.A80.270.4.52M.C	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SE1.45.A80.300.4.52M.C	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SE1.45.A80.330.4.52M.C	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SEV.30.A30.175.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.200.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.230.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.250.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.300.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.335.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.390.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SEV.30.A30.420.2.52H.C	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)

Pump type	Z13	Z14	Z15	Z16	Z17G/ S	Z23		S3OPR		ZDC1	ZDN1	ZDT1	ZL1	ZL2	ZM
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	Std.	Ex.	Std.	Ex.	in (mm)	ANSI (DN)	in (mm)	in (mm)	in (mm)
SEV.30.A30.420.2.52H.C	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	9.8 (250)	9.8 (250)	13.4 (340)	13.4 (340)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)

SL1/SLV

Pump type	C	F	ZØ1	Z1	Z2	Z3	Z4	Z6	Z7	Z8	Z9	Z10	Z11	Z12a	Z12b
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
SL1.30.A40.175.2.52S.S	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SL1.30.A40.200.2.52S.S	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SL1.30.A40.230.2.52S.S	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SL1.30.A40.250.2.52S.S	18.8 (478)	15.2 (386)	8 X 0.8 (20)	43.4 (1102)	10.2 (260)	4.3 (110)	8.7 (220)	36.4 (924)	27.5 (698)	19.9 (505)	4.3 (110)	2.4 (60)	48.1 (1222)	4.7 (120)	9.4 (240)
SL1.30.A40.120.4.52H.S	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SL1.30.A40.150.4.52H.S	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SL1.30.A40.175.4.52H.S	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SL1.30.A40.200.4.52H.S	23.2 (590)	16.8 (427)	8 X 0.8 (20)	44.3 (1125)	10.2 (260)	4.3 (110)	8.7 (220)	40.8 (1036)	31.9 (810)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1265)	5.5 (140)	9.4 (240)
SL1.35.A40.245.4.52H.S	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SL1.35.A40.270.4.52H.S	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SL1.35.A40.300.4.52H.S	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SL1.35.A40.330.4.52H.S	24 (609)	18.1 (460)	8 X 0.8 (20)	44.3 (1126)	10.2 (260)	4.3 (110)	8.7 (220)	41.5 (1055)	32.6 (829)	23.6 (600)	4.3 (110)	2.4 (60)	49.8 (1266)	5.5 (140)	9.4 (240)
SL1.30.A60.120.4.52H.S	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.30.A60.150.4.52H.S	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.30.A60.175.4.52H.S	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.30.A60.200.4.52H.S	21.9 (557)	16.7 (424)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	44.4 (1128)	32 (814)	23.9 (607)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.35.A60.245.4.52H.S	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.35.A60.270.4.52H.S	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.35.A60.300.4.52H.S	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.35.A60.330.4.52H.S	23.8 (605)	19.1 (485)	8 X 0.9 (23)	44.3 (1125)	11.3 (287)	4.8 (123)	11 (280)	46.3 (1176)	33.9 (862)	25.1 (637)	4.3 (110)	3.5 (88)	49 (1245)	4.7 (120)	10.8 (275)
SL1.40.A80.120.4.52M.S	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SL1.40.A80.150.4.52M.S	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SL1.40.A80.175.4.52M.S	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SL1.40.A80.200.4.52M.S	29 (737)	18.5 (470)	8 X 0.9 (23)	45 (1144)	16.9 (430)	7.9 (200)	21.1 (535)	59 (1498)	44.4 (1129)	35.1 (892)	6.7 (170)	3.5 (88)	50.6 (1284)	5.5 (140)	7.7 (196)
SL1.45.A80.245.4.52M.S	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SL1.45.A80.270.4.52M.S	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SL1.45.A80.300.4.52M.S	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SL1.45.A80.330.4.52M.S	29.7 (755)	22.4 (570)	8 X 0.9 (23)	45.4 (1154)	16.9 (430)	7.9 (200)	21.1 (535)	59.7 (1516)	45.2 (1147)	35.1 (892)	6.7 (170)	3.5 (88)	50.9 (1294)	5.5 (140)	7.7 (196)
SLV.30.A30.175.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SLV.30.A30.200.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SLV.30.A30.230.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)

Pump type	C in (mm)	F in (mm)	ZØ1 in (mm)	Z1 in (mm)	Z2 in (mm)	Z3 in (mm)	Z4 in (mm)	Z6 in (mm)	Z7 in (mm)	Z8 in (mm)	Z9 in (mm)	Z10 in (mm)	Z11 in (mm)	Z12a in (mm)	Z12b in (mm)
SLV.30.A30.250.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SLV.30.A30.300.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SLV.30.A30.335.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SLV.30.A30.390.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)
SLV.30.A30.420.2.52H.S	20.7 (525)	15.2 (385)	8 X 0.8 (20)	42.9 (1090)	10.2 (260)	4.3 (110)	8.7 (220)	38.9 (988)	30 (762)	22.3 (567)	4.3 (110)	2.4 (60)	46.9 (1190)	3.9 (100)	9.4 (240)

Pump type	Z13 in (mm)	Z14 in (mm)	Z15 in (mm)	Z16 in (mm)	Z17G /S in (mm)	Z23 in (mm)		S3OPR in (mm)		ZDC1 in (mm)	ZDN1 ANSI (DN)	ZDT1 in (mm)	ZL1 in (mm)	ZL2 in (mm)	ZM in (mm)
						Std.	Ex.	Std.	Ex.						
SL1.30.A40.175.2.52S.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	19.9 (505)	19.5 (495)	24.2 (615)	23.8 (605)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.200.2.52S.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	19.9 (505)	19.5 (495)	24.2 (615)	23.8 (605)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.230.2.52S.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	19.9 (505)	19.5 (495)	24.2 (615)	23.8 (605)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.250.2.52S.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	19.9 (505)	19.5 (495)	24.2 (615)	23.8 (605)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.120.4.52H.S	3.1 (80)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.9 (937)	43.3 (1099)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.150.4.52H.S	3.1 (80)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.9 (937)	43.3 (1099)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.175.4.52H.S	3.1 (80)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.9 (937)	43.3 (1099)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A40.200.4.52H.S	3.1 (80)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.9 (937)	43.3 (1099)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.35.A40.245.4.52H.S	3.3 (84)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.7 (933)	43.1 (1095)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.35.A40.270.4.52H.S	3.3 (84)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.7 (933)	43.1 (1095)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.35.A40.300.4.52H.S	3.3 (84)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.7 (933)	43.1 (1095)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.35.A40.330.4.52H.S	3.3 (84)	-	8.7 (220)	16.3 (413)	0.12 (3)	34.5 (877)	40.9 (1039)	36.7 (933)	43.1 (1095)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	17.6 (446)	4.3 (110)	4 X 5/8" (M16)
SL1.30.A60.120.4.52H.S	0.6 (15)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.8 (885)	34.8 (885)	9.4 (240)	ANSI 4" (DN100)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.30.A60.150.4.52H.S	0.6 (15)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.8 (885)	34.8 (885)	9.4 (240)	ANSI 4" (DN100)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.30.A60.175.4.52H.S	0.6 (15)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.8 (885)	34.8 (885)	9.4 (240)	ANSI 4" (DN100)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.30.A60.200.4.52H.S	0.6 (15)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.8 (885)	34.8 (885)	9.4 (240)	ANSI 4" (DN100)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.35.A60.245.4.52H.S	0.7 (18)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.7 (882)	34.7 (882)	9.4 (240)	ANSI 6" (DN150)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.35.A60.270.4.52H.S	0.7 (18)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.7 (882)	34.7 (882)	9.4 (240)	ANSI 6" (DN150)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.35.A60.300.4.52H.S	0.7 (18)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.7 (882)	34.7 (882)	9.4 (240)	ANSI 6" (DN150)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.35.A60.330.4.52H.S	0.7 (18)	-	11 (280)	17.7 (450)	0.12 (3)	30.7 (780)	30.7 (780)	34.7 (882)	34.7 (882)	9.4 (240)	ANSI 6" (DN150)	1 (25)	22.5 (571)	5.8 (147)	4 X 5/8" (M16)
SL1.40.A80.120.4.52M.S	4.3 (108)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.5 (799)	31.5 (799)	32.7 (831)	32.7 (831)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.40.A80.150.4.52M.S	4.3 (108)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.5 (799)	31.5 (799)	32.7 (831)	32.7 (831)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.40.A80.175.4.52M.S	4.3 (108)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.5 (799)	31.5 (799)	32.7 (831)	32.7 (831)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.40.A80.200.4.52M.S	4.3 (108)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.5 (799)	31.5 (799)	32.7 (831)	32.7 (831)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.45.A80.245.4.52M.S	5.2 (131)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.9 (809)	31.9 (809)	32.2 (818)	32.2 (818)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.45.A80.270.4.52M.S	5.2 (131)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.9 (809)	31.9 (809)	32.2 (818)	32.2 (818)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.45.A80.300.4.52M.S	5.2 (131)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.9 (809)	31.9 (809)	32.2 (818)	32.2 (818)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)
SL1.45.A80.330.4.52M.S	5.2 (131)	3.4 (86)	14.4 (365)	19.1 (485)	0.12 (3)	31.9 (809)	31.9 (809)	32.2 (818)	32.2 (818)	11.6 (295)	ANSI 8" (DN200)	1.2 (31)	30 (761)	8.7 (222)	4 X 1" (M24)

Pump type	Z13	Z14	Z15	Z16	Z17G	Z23		S3OPR		ZDC1	ZDN1	ZDT1	ZL1	ZL2	ZM
	in	in	in	in	in	in		in		in	ANSI	in	in	in	in
	(mm)	(mm)	(mm)	(mm)	(mm)	Std.	Ex.	Std.	Ex.	(mm)	(DN)	(mm)	(mm)	(mm)	(mm)
SLV.30.A30.175.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.200.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.230.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.250.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.300.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.335.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.390.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)
SLV.30.A30.420.2.52H.S	0.4 (10)	-	8.7 (220)	16.3 (413)	0.12 (3)	29.3 (745)	29.3 (745)	32.9 (835)	32.9 (835)	7.1 (180)	ANSI 4" (DN100)	0.9 (22)	18.2 (463)	5 (127)	4 X 5/8" (M16)

Ring stand

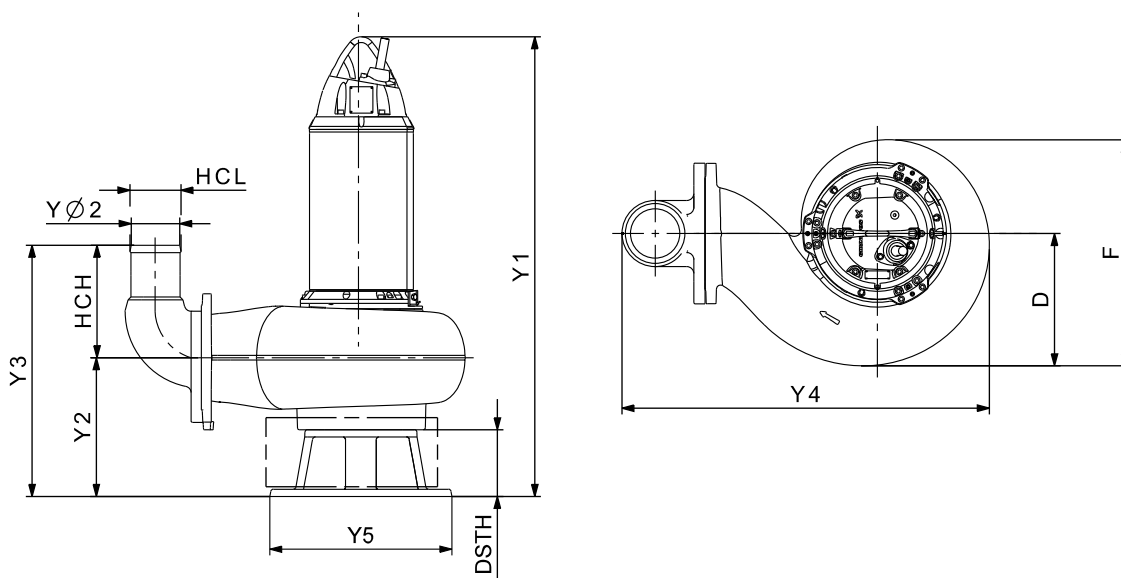


Fig. 26 Ring stand dimensions

TM05 2562 0312

SE1/SEV

Pump type	YØ2 in (mm)	Y1 in (mm)	Y2 in (mm)	Y3 in (mm)	Y4 in (mm)	Y5 in (mm)	HCL in (mm)	HCH in (mm)	DSTH in (mm)	D in (mm)	F in (mm)
SE1.30.A40.175.2.52S.C	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SE1.30.A40.200.2.52S.C	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SE1.30.A40.230.2.52S.C	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SE1.30.A40.250.2.52S.C	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SE1.30.A40.120.4.52H.C	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SE1.30.A40.150.4.52H.C	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SE1.30.A40.175.4.52H.C	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SE1.30.A40.200.4.52H.C	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SE1.35.A40.245.4.52H.C	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SE1.35.A40.270.4.52H.C	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SE1.35.A40.300.4.52H.C	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SE1.35.A40.330.4.52H.C	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SE1.30.A60.120.4.52H.C	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SE1.30.A60.150.4.52H.C	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SE1.30.A60.175.4.52H.C	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SE1.30.A60.200.4.52H.C	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SE1.35.A60.245.4.52H.C	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)
SE1.35.A60.270.4.52H.C	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)
SE1.35.A60.300.4.52H.C	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)
SE1.35.A60.330.4.52H.C	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)

Pump type	YØ2 in (mm)	Y1 in (mm)	Y2 in (mm)	Y3 in (mm)	Y4 in (mm)	Y5 in (mm)	HCL in (mm)	HCH in (mm)	DSTH in (mm)	D in (mm)	F in (mm)
SE1.40.A80.120.4.52M.C	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SE1.40.A80.150.4.52M.C	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SE1.40.A80.175.4.52M.C	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SE1.40.A80.200.4.52M.C	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SE1.45.A80.245.4.52M.C	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SE1.45.A80.270.4.52M.C	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SE1.45.A80.300.4.52M.C	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SE1.45.A80.330.4.52M.C	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SEV.30.A30.175.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.200.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.230.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.250.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.300.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.335.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.390.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SEV.30.A30.420.2.52H.C	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)

SL1/SLV

Pump type	YØ2 in (mm)	Y1 in (mm)	Y2 in (mm)	Y3 in (mm)	Y4 in (mm)	Y5 in (mm)	HCL in (mm)	HCH in (mm)	DSTH in (mm)	D in (mm)	F in (mm)
SL1.30.A40.175.2.52S.S	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SL1.30.A40.200.2.52S.S	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SL1.30.A40.230.2.52S.S	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SL1.30.A40.250.2.52S.S	4.1 (105)	48.5 (1232)	10.2 (260)	17.2 (437)	23.8 (605)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	7.6 (193)	15.2 (386)
SL1.30.A40.120.4.52H.S	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SL1.30.A40.150.4.52H.S	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SL1.30.A40.175.4.52H.S	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SL1.30.A40.200.4.52H.S	4.1 (105)	49.4 (1255)	12.2 (310)	19.2 (487)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	9.3 (236)	16.8 (427)
SL1.35.A40.245.4.52H.S	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SL1.35.A40.270.4.52H.S	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SL1.35.A40.300.4.52H.S	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SL1.35.A40.330.4.52H.S	4.1 (105)	49.4 (1256)	12.4 (314)	19.3 (491)	27.6 (700)	14 (355)	5.6 (142)	7 (177)	5.1 (130)	10 (255)	18.1 (460)
SL1.30.A60.120.4.52H.S	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SL1.30.A60.150.4.52H.S	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SL1.30.A60.175.4.52H.S	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SL1.30.A60.200.4.52H.S	5.9 (150)	51.6 (1311)	14 (356)	24.8 (629)	33 (837)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	11.2 (284)	16.7 (424)
SL1.35.A60.245.4.52H.S	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)

Pump type	YØ2 in (mm)	Y1 in (mm)	Y2 in (mm)	Y3 in (mm)	Y4 in (mm)	Y5 in (mm)	HCL in (mm)	HCH in (mm)	DSTH in (mm)	D in (mm)	F in (mm)
SL1.35.A60.270.4.52H.S	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)
SL1.35.A60.300.4.52H.S	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)
SL1.35.A60.330.4.52H.S	5.9 (150)	51.6 (1311)	14.1 (359)	24.9 (632)	34.1 (867)	17.7 (450)	10.3 (262)	10.7 (273)	7.3 (186)	10.5 (266)	19.1 (485)
SL1.40.A80.120.4.52M.S	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SL1.40.A80.150.4.52M.S	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SL1.40.A80.175.4.52M.S	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SL1.40.A80.200.4.52M.S	8.1 (205)	51.3 (1304)	12.8 (324)	29.9 (759)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	10.5 (267)	18.5 (470)
SL1.45.A80.245.4.52M.S	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SL1.45.A80.270.4.52M.S	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SL1.45.A80.300.4.52M.S	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SL1.45.A80.330.4.52M.S	8.1 (205)	51.7 (1314)	13.7 (347)	30.8 (782)	47 (1193)	21.7 (550)	16.5 (418)	17.1 (435)	6.3 (160)	9.9 (252)	22.4 (570)
SLV.30.A30.175.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.200.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.230.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.250.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.300.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.335.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.390.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)
SLV.30.A30.420.2.52H.S	3.1 (79)	48 (1220)	11 (280)	16.6 (422)	24.6 (626)	14 (355)	4.6 (118)	5.6 (142)	5.1 (130)	7.6 (192)	15.2 (385)

Dry vertical

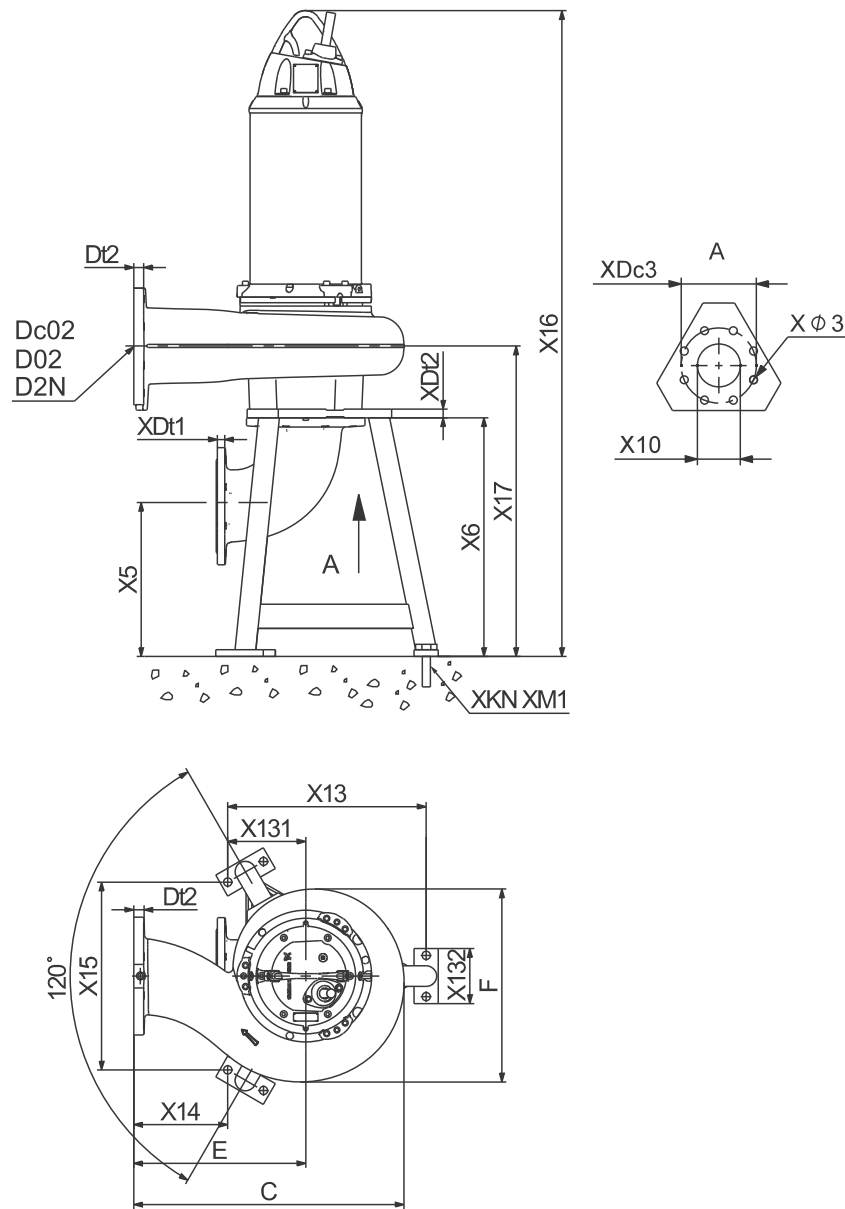


Fig. 27 Dimensions, dry vertical

TM06 5241 3516

SE1/SEV

Pump type	C in (mm)	E in (mm)	F in (mm)	X5 in (mm)	X6 in (mm)	X10 in (mm)	X13 in (mm)	X14 in (mm)	X15 in (mm)	X16 in (mm)	X17 in (mm)
SE1.30.A40.175.2.52S.C	18.8 (478)	11.2 (285)	15.2 (386)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	5.9 (150)	18.4 (468)	60.8 (1545)	22.6 (573)
SE1.30.A40.200.2.52S.C	18.8 (478)	11.2 (285)	15.2 (386)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	5.9 (150)	18.4 (468)	60.8 (1545)	22.6 (573)
SE1.30.A40.230.2.52S.C	18.8 (478)	11.2 (285)	15.2 (386)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	5.9 (150)	18.4 (468)	60.8 (1545)	22.6 (573)
SE1.30.A40.250.2.52S.C	18.8 (478)	11.2 (285)	15.2 (386)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	5.9 (150)	18.4 (468)	60.8 (1545)	22.6 (573)
SE1.30.A40.120.4.52H.C	23.2 (590)	15 (380)	16.8 (427)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.5 (801)
SE1.30.A40.150.4.52H.C	23.2 (590)	15 (380)	16.8 (427)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.5 (801)
SE1.30.A40.175.4.52H.C	23.2 (590)	15 (380)	16.8 (427)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.5 (801)

Pump type	C in (mm)	E in (mm)	F in (mm)	X5 in (mm)	X6 in (mm)	X10 in (mm)	X13 in (mm)	X14 in (mm)	X15 in (mm)	X16 in (mm)	X17 in (mm)
SE1.30.A40.200.4.52H.C	23.2 (590)	15 (380)	16.8 (427)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.5 (801)
SE1.35.A40.245.4.52H.C	24 (609)	15 (380)	18.1 (460)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.8 (1747)	31.7 (805)
SE1.35.A40.270.4.52H.C	24 (609)	15 (380)	18.1 (460)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.8 (1747)	31.7 (805)
SE1.35.A40.300.4.52H.C	24 (609)	15 (380)	18.1 (460)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.8 (1747)	31.7 (805)
SE1.35.A40.330.4.52H.C	24 (609)	15 (380)	18.1 (460)	11.7 (296)	24.4 (621)	ANSI 4" (DN100)	17.7 (450)	9.1 (230)	20.5 (520)	68.8 (1747)	31.7 (805)
SE1.30.A60.120.4.52H.C	21.9 (557)	13.8 (350)	16.7 (424)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	7.9 (200)	20.5 (520)	68.7 (1746)	31.1 (791)
SE1.30.A60.150.4.52H.C	21.9 (557)	13.8 (350)	16.7 (424)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	7.9 (200)	20.5 (520)	68.7 (1746)	31.1 (791)
SE1.30.A60.175.4.52H.C	21.9 (557)	13.8 (350)	16.7 (424)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	7.9 (200)	20.5 (520)	68.7 (1746)	31.1 (791)
SE1.30.A60.200.4.52H.C	21.9 (557)	13.8 (350)	16.7 (424)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	7.9 (200)	20.5 (520)	68.7 (1746)	31.1 (791)
SE1.35.A60.245.4.52H.C	23.8 (605)	15 (380)	19.1 (485)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.3 (794)
SE1.35.A60.270.4.52H.C	23.8 (605)	15 (380)	19.1 (485)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.3 (794)
SE1.35.A60.300.4.52H.C	23.8 (605)	15 (380)	19.1 (485)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.3 (794)
SE1.35.A60.330.4.52H.C	23.8 (605)	15 (380)	19.1 (485)	11.7 (296)	24.4 (621)	ANSI 6" (DN150)	17.7 (450)	9.1 (230)	20.5 (520)	68.7 (1746)	31.3 (794)
SE1.40.A80.120.4.52M.C	29 (737)	19.7 (500)	18.5 (470)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.3 (1863)	34.8 (883)
SE1.40.A80.150.4.52M.C	29 (737)	19.7 (500)	18.5 (470)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.3 (1863)	34.8 (883)
SE1.40.A80.175.4.52M.C	29 (737)	19.7 (500)	18.5 (470)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.3 (1863)	34.8 (883)
SE1.40.A80.200.4.52M.C	29 (737)	19.7 (500)	18.5 (470)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.3 (1863)	34.8 (883)
SE1.45.A80.245.4.52M.C	29.7 (755)	19.7 (500)	22.4 (570)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.7 (1873)	35.7 (906)
SE1.45.A80.270.4.52M.C	29.7 (755)	19.7 (500)	22.4 (570)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.7 (1873)	35.7 (906)
SE1.45.A80.300.4.52M.C	29.7 (755)	19.7 (500)	22.4 (570)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.7 (1873)	35.7 (906)
SE1.45.A80.330.4.52M.C	29.7 (755)	19.7 (500)	22.4 (570)	13.5 (344)	28.3 (719)	ANSI 8" (DN200)	20.7 (525)	12.8 (325)	23.9 (606)	73.7 (1873)	35.7 (906)
SEV.30.A30.175.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.200.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.230.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.250.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.300.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.335.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.390.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)
SEV.30.A30.420.2.52H.C	20.7 (525)	13 (330)	15.2 (385)	7 (177)	17.4 (443)	ANSI 4" (DN100)	15.9 (405)	7.7 (195)	18.4 (468)	60.4 (1533)	23.3 (593)

Pump type	X131 in (mm)	X132 in (mm)	XDt1 in (mm)	XDt2 in (mm)	Dt2 in (mm)	Dc02 in (mm)	D02 in (mm)	D2N in (mm)	XDc3 in (mm)	XØ3 in (mm)	XKN XM1 in (mm)
SE1.30.A40.175.2.52S.C	5.3 (135)	2.8 (70)	0.9 (22)	0.9 (22)	0.9 (23)	7.1 (180)	0.75 (19)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SE1.30.A40.200.2.52S.C	5.3 (135)	2.8 (70)	0.9 (22)	0.9 (22)	0.9 (23)	7.1 (180)	0.75 (19)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SE1.30.A40.230.2.52S.C	5.3 (135)	2.8 (70)	0.9 (22)	0.9 (22)	0.9 (23)	7.1 (180)	0.75 (19)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SE1.30.A40.250.2.52S.C	5.3 (135)	2.8 (70)	0.9 (22)	0.9 (22)	0.9 (23)	7.1 (180)	0.75 (19)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SE1.30.A40.120.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)

Pump type	X131 in (mm)	X132 in (mm)	XDt1 in (mm)	XDt2 in (mm)	Dt2 in (mm)	Dc02 in (mm)	D02 in (mm)	D2N in (mm)	XDc3 in (mm)	XØ3 in (mm)	XKN XM1 in (mm)
SE1.30.A40.150.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.30.A40.175.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.30.A40.200.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A40.245.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A40.270.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A40.300.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A40.330.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	0.9 (24)	7.1 (180)	0.75 (19)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.30.A60.120.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (28)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.30.A60.150.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (28)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.30.A60.175.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (28)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.30.A60.200.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (28)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A60.245.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (27)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A60.270.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (27)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A60.300.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (27)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.35.A60.330.4.52H.C	5.9 (150)	4.7 (120)	0.9 (24)	0.9 (24)	1.1 (27)	11.7 (297)	0.91 (23)	0.31 (8)	9.4 (240)	0.9 (24)	6 x 3/4 (M20)
SE1.40.A80.120.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	9.45 (240)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.40.A80.150.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	9.45 (240)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.40.A80.175.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	9.45 (240)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.40.A80.200.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	9.45 (240)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.45.A80.245.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	11.6 (295)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.45.A80.270.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	11.6 (295)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.45.A80.300.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	11.6 (295)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SE1.45.A80.330.4.52M.C	6.9 (175)	4.7 (120)	1 (26)	1 (26)	1.2 (30)	11.6 (295)	0.91 (23)	0.31 (8)	11.6 (295)	0.9 (24)	6 x 3/4 (M20)
SEV.30.A30.175.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.200.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.230.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.250.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.300.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.335.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.390.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)
SEV.30.A30.420.2.52H.C	5.3 (135)	0 (0)	0.9 (22)	0.9 (22)	1 (25)	160 (6.3)	0.71 (18)	0.31 (8)	7.5 (191)	0.7 (19)	3 x 3/4 (M20)

Dry horizontal

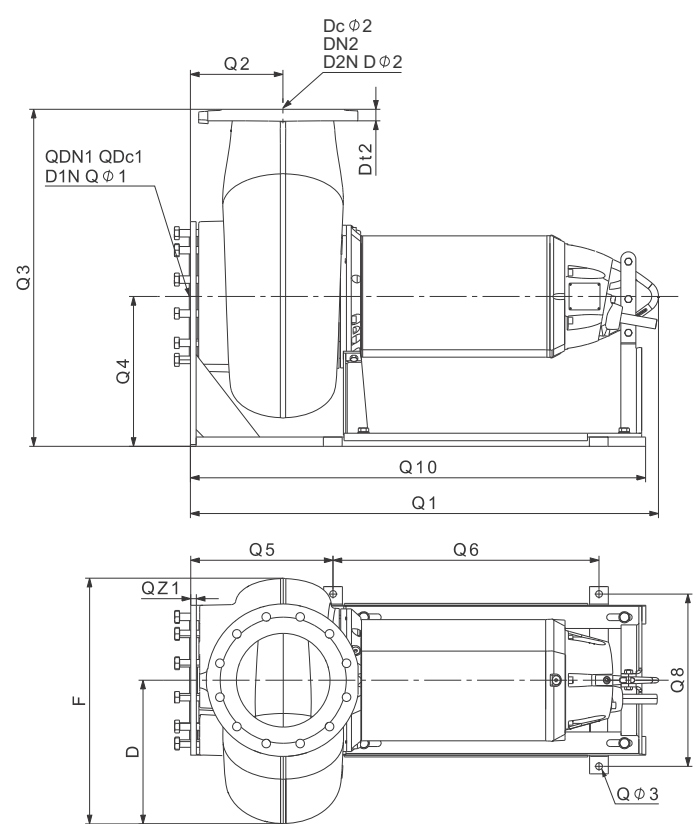


Fig. 28 Dimensions, dry horizontal

TM05 2580 3516

Pump type	D in (mm)	F in (mm)	Q1 in (mm)	Q2 in (mm)	Q3 in (mm)	Q4 in (mm)	Q5 in (mm)	Q6 in (mm)	Q8 in (mm)	Q10 in (mm)
SE1.30.A40.175.2.52S.H	7.6 (193)	15.2 (386)	44.1 (1120)	5.8 (148)	27 (685)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.200.2.52S.H	7.6 (193)	15.2 (386)	44.1 (1120)	5.8 (148)	27 (685)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.230.2.52S.H	7.6 (193)	15.2 (386)	44.1 (1120)	5.8 (148)	27 (685)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.250.2.52S.H	7.6 (193)	15.2 (386)	44.1 (1120)	5.8 (148)	27 (685)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.120.4.52H.H	9.3 (236)	16.8 (427)	45 (1143)	7.8 (198)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.150.4.52H.H	9.3 (236)	16.8 (427)	45 (1143)	7.8 (198)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.175.4.52H.H	9.3 (236)	16.8 (427)	45 (1143)	7.8 (198)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A40.200.4.52H.H	9.3 (236)	16.8 (427)	45 (1143)	7.8 (198)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A40.245.4.52H.H	10 (255)	18.1 (460)	45 (1144)	8 (202)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A40.270.4.52H.H	10 (255)	18.1 (460)	45 (1144)	8 (202)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A40.300.4.52H.H	10 (255)	18.1 (460)	45 (1144)	8 (202)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A40.330.4.52H.H	10 (255)	18.1 (460)	45 (1144)	8 (202)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A60.120.4.52H.H	11.2 (284)	16.7 (424)	45 (1143)	7.4 (188)	29.5 (750)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A60.150.4.52H.H	11.2 (284)	16.7 (424)	45 (1143)	7.4 (188)	29.5 (750)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A60.175.4.52H.H	11.2 (284)	16.7 (424)	45 (1143)	7.4 (188)	29.5 (750)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.30.A60.200.4.52H.H	11.2 (284)	16.7 (424)	45 (1143)	7.4 (188)	29.5 (750)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A60.245.4.52H.H	10.5 (266)	19.1 (485)	45 (1143)	7.5 (191)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A60.270.4.52H.H	10.5 (266)	19.1 (485)	45 (1143)	7.5 (191)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A60.300.4.52H.H	10.5 (266)	19.1 (485)	45 (1143)	7.5 (191)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.35.A60.330.4.52H.H	10.5 (266)	19.1 (485)	45 (1143)	7.5 (191)	30.7 (780)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.40.A80.120.4.52M.H	10.5 (267)	18.5 (470)	45.7 (1162)	7.2 (182)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.40.A80.150.4.52M.H	10.5 (267)	18.5 (470)	45.7 (1162)	7.2 (182)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.40.A80.175.4.52M.H	10.5 (267)	18.5 (470)	45.7 (1162)	7.2 (182)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.40.A80.200.4.52M.H	10.5 (267)	18.5 (470)	45.7 (1162)	7.2 (182)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.45.A80.245.4.52M.H	9.9 (252)	22.4 (570)	46.1 (1172)	8.1 (205)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.45.A80.270.4.52M.H	9.9 (252)	22.4 (570)	46.1 (1172)	8.1 (205)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.45.A80.300.4.52M.H	9.9 (252)	22.4 (570)	46.1 (1172)	8.1 (205)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SE1.45.A80.330.4.52M.H	9.9 (252)	22.4 (570)	46.1 (1172)	8.1 (205)	35.4 (900)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SEV.30.A30.175.2.52H.H	7.6 (192)	15.2 (385)	43.6 (1108)	6.6 (168)	28.7 (730)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SEV.30.A30.200.2.52H.H	7.6 (192)	15.2 (385)	43.6 (1108)	6.6 (168)	28.7 (730)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)
SEV.30.A30.230.2.52H.H	7.6 (192)	15.2 (385)	43.6 (1108)	6.6 (168)	28.7 (730)	15.7 (400)	15 (380)	28 (710)	18.1 (460)	47.8 (1215)

Pump type	QZ1 in (mm)	QDc1 in (mm)	QDN1 ANSI (DN)	QØ1 in (mm)	D1N in (mm)	DØ2 in (mm)	D2N in (mm)	DcØ2 in (mm)	DN2 ANSI (DN)	DT2 in (mm)	QØ3 in (mm)
SEV.30.A30.390.2.52H.H	0.7 (18)	7.1 (180)	ANSI 4" (DN100)	5/8 (M16)	0.3 (8)	0.7 (18)	0.3 (8)	6.3 (160)	ANSI 3" (DN80)	1 (25)	0.7 (18)
SEV.30.A30.420.2.52H.H	0.7 (18)	7.1 (180)	ANSI 4" (DN100)	5/8 (M16)	0.3 (8)	0.7 (18)	0.3 (8)	6.3 (160)	ANSI 3" (DN80)	1 (25)	0.7 (18)

13. Grundfos Product Center

Online search and sizing tool to help you make the right choice.

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SIZING enables you to size a pump based on entered data and selection choices.

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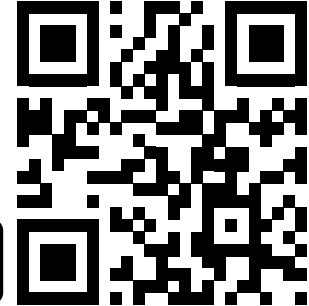
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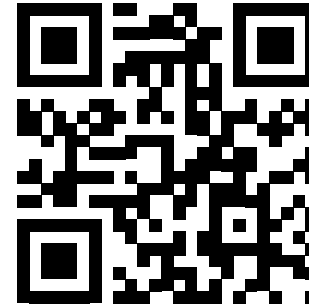
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