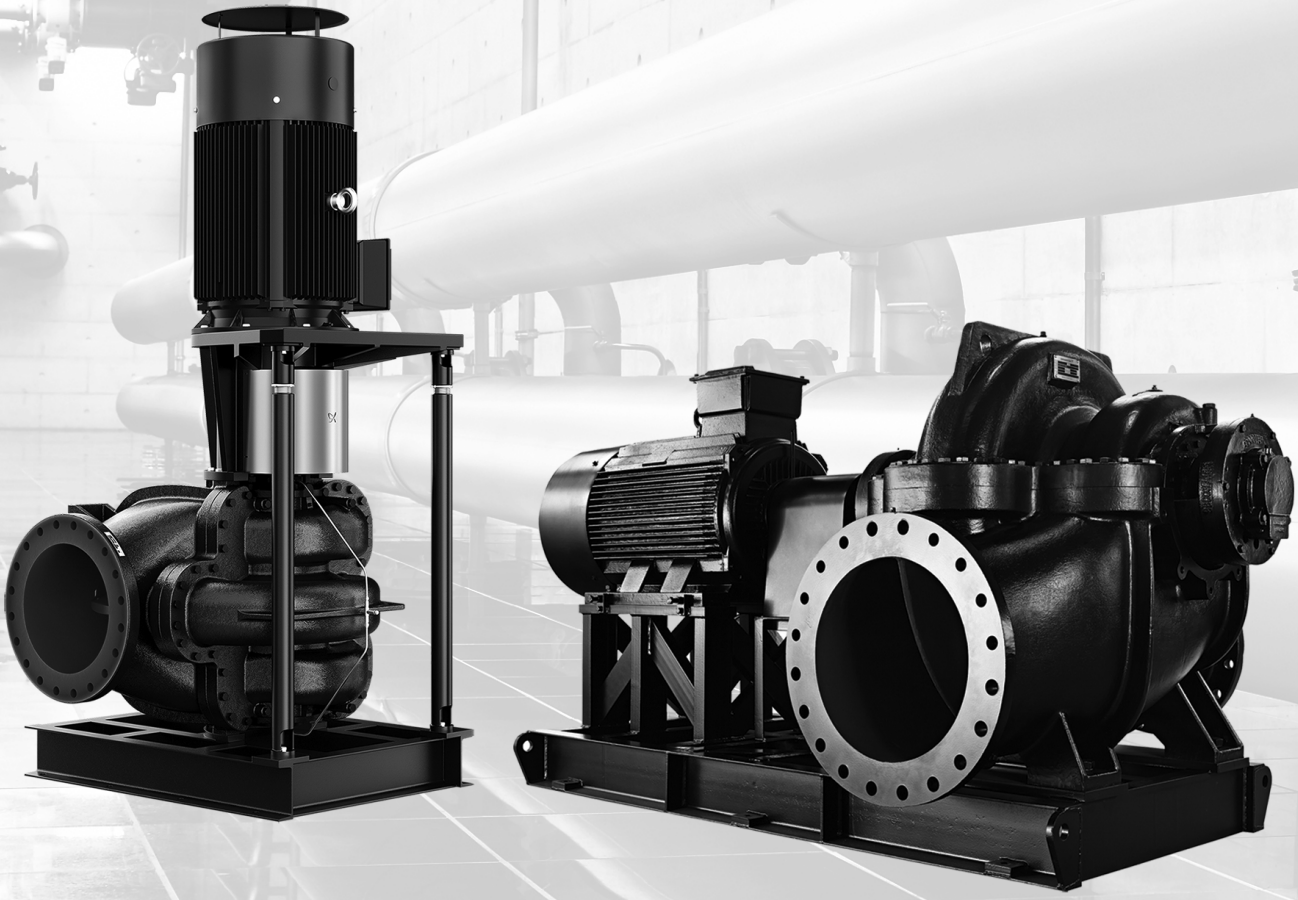
LS, LSV

Long-coupled split-case pump
50Hz China



GRUNDFOS

Table of contents

1. Product introduction

Grundfos long-coupled, split-case, double inlet pumps are non-self priming, centrifugal volute pumps. They are available in two main designs: single-stage and double-stage, horizontal installation type LS and vertical installation type LSV. The pumps are energy-efficient. Hydraulic parts are designed using computational fluid dynamics (CFD). The compensated double-volute design virtually eliminates radial forces on the shaft and ensures smooth performance throughout the entire operating range. LS, LSV pumps are easy to install owing to the in-line design, meaning that inlet and outlet ports are in a straight line. The split-case construction enables removal and dismantling of the internal pump parts, such as bearings, wear rings, impeller and shaft seal, without disturbing the motor or pipes.

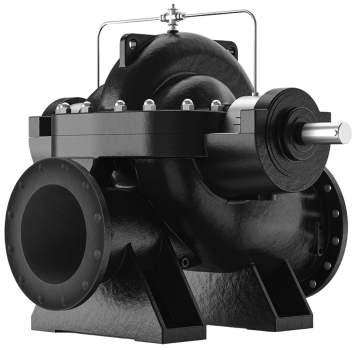
Flanges are in accordance with DIN standards.

TM063638

Grundfos LS pump

TM071141

Grundfos LS double-stage pump



TM082536

Grundfos LS single-stage pump

TM088495

Grundfos LSV pump

2. Applications

LS, LSV pumps are used in these main fields of application:

Commercial systems

- Air conditioning, primary and secondary chilled water systems
- water condensing systems and cooling towers
- high-rise buildings
- district energy
- swimming pools
- fountains.

TM055977

LS pump in a commercial building application

Industrial systems

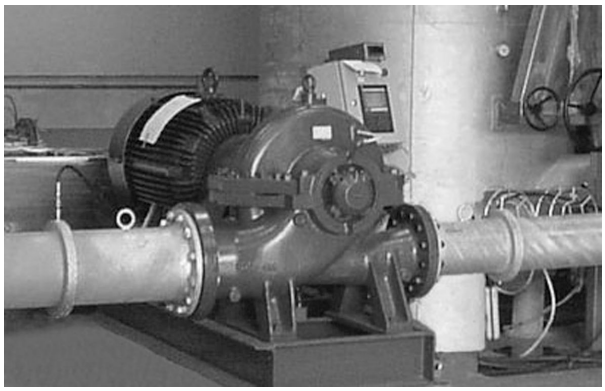
- Process cooling and chilled water systems
- water condensing systems and cooling towers
- industrial heating systems
- wash down and cleaning systems
- industrial processing systems (water, light chemicals, oils, etc.).

Water distribution

- Public waterworks
- potable and non-potable water systems
- irrigation and aquaculture.

Irrigation covers these applications

- Field irrigation (flooding)
- sprinkler irrigation and drip-feed irrigation
- aquafarming.



TM033903

LS pump in a waterworks

GR2910_W

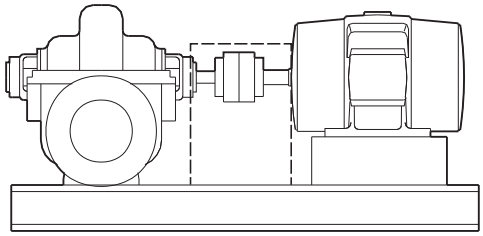
LS, LSV pump in sprinkler irrigation

3. Features and benefits

LS, LSV pumps offer the following features and benefits:

- The pumps are non-self-priming, centrifugal volute pumps with radial inlet and radial outlet ports. All pumps are designed according to ISO 5199. Impellers are dynamically balanced according to ISO1940 class G 6.3.
- The drilling hole of inlet and outlet flanges are in accordance with DIN EN 1092-2 standards.
- CFD is used to design and verify the hydraulic model of impeller and pump casing in order to improve the efficiency of the pumps. LS pumps can keep high hydraulic efficiency even if the flow rate deviates up to 20 % from the design duty point.
- The compensated double-volute design virtually eliminates radial forces acting on the shaft, thus extending seal and bearing life. The result of this combination of balanced radial forces and axially balanced hydraulics is quiet, smooth performance throughout the entire operating range.
- Grundfos offers both mechanical shaft seals and stuffing boxes to seal the shaft.
- Grundfos offers both elastic pin couplings and diaphragm couplings.
- The standard material of the pump casing is cast iron. We can supply customised solutions with ductile cast iron or stainless steel pump casing.
- The standard material of the impeller is stainless steel. We can supply customised solutions with aluminium bronze or duplex stainless steel impeller.
- The bearings are brands of world renown with low failure rate and long life. Bearings are selected to provide a minimum of 50,000 hours (L_{10}) life when operating within the allowable operating range.
- LS pumps have the following flange dimensions:
  Inlet port diameter: 65-1000 mm
  Outlet port diameter: 50-700 mm.
- LS pumps cover the following performance range:
  Maximum flow rate: 15000 m^3/h
  Maximum head: 250 m.

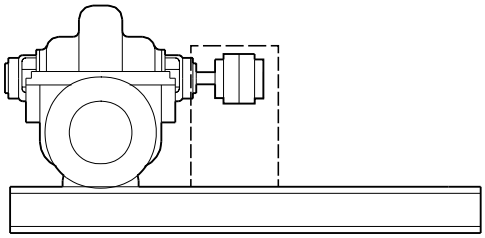
- LS pumps are available in five different variants:
  - Pump with motor and common base frame.



TM067969

Pump with motor and common base frame

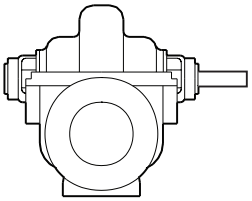
- Bare shaft pump, i.e. pump without motor, with common base frame.



TM067970

Bare shaft pump with common base frame

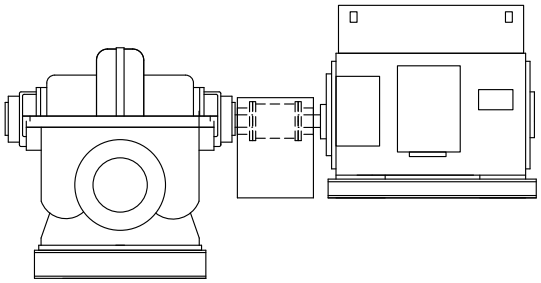
- Bare shaft pump without base frame.



TM067971

Bare shaft pump

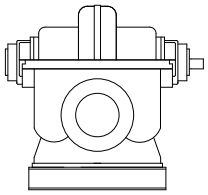
- Pump with motor and separate base frames.



TM063274

Pump with motor and separate base frames

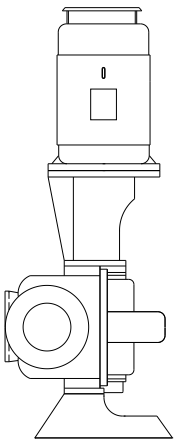
- Bare shaft pump with base frame.



TM063275

Bare shaft pump with base frame

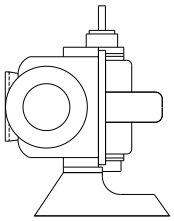
- LSV pumps are available in three different variants:
  - Pump with motor and base frame.



TM071235

Pump with motor and base frame

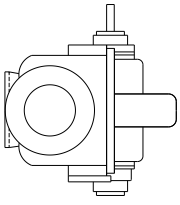
- Bare shaft pump with base frame.



TM071236

Bare shaft pump with base frame

- Bare shaft pump without base frame.

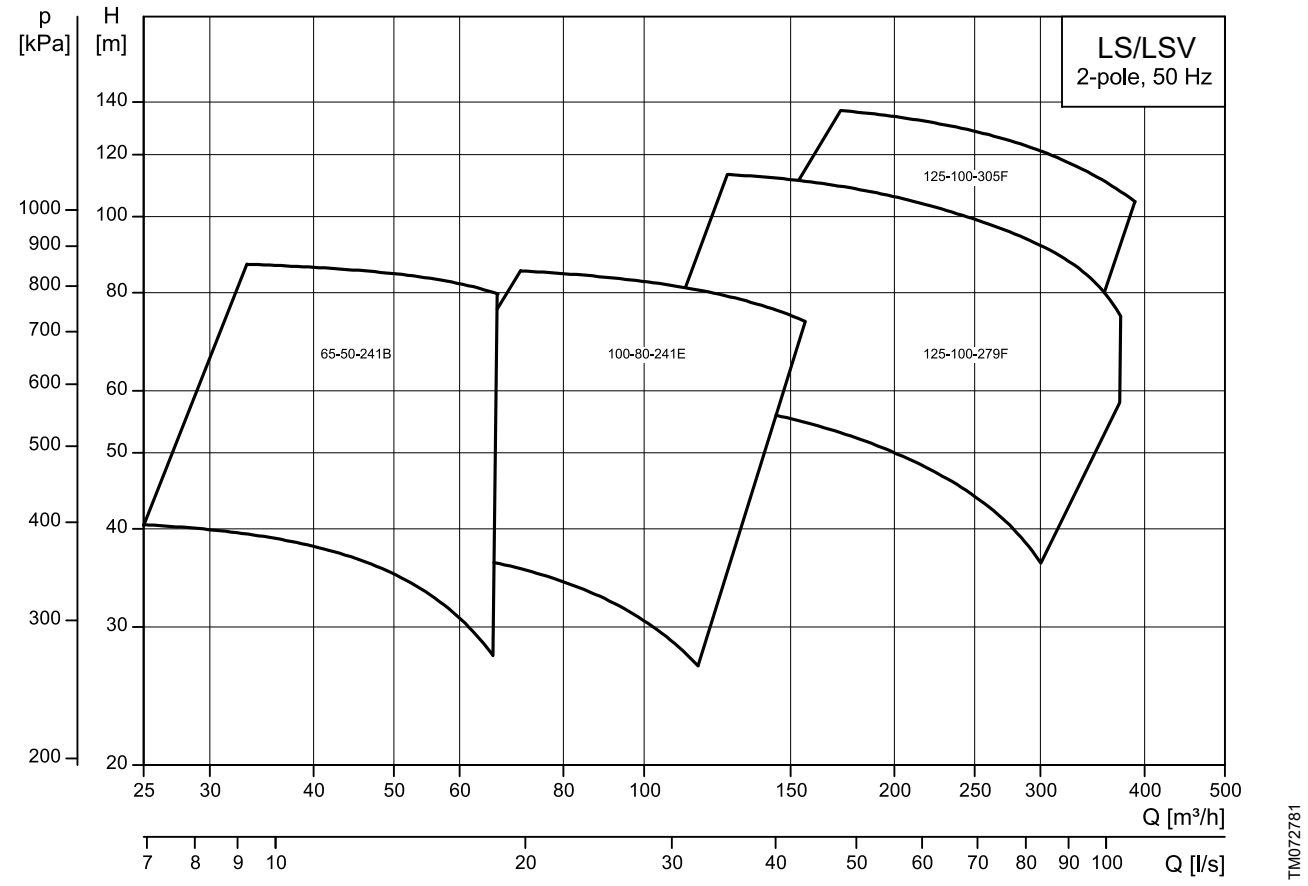


TM071237

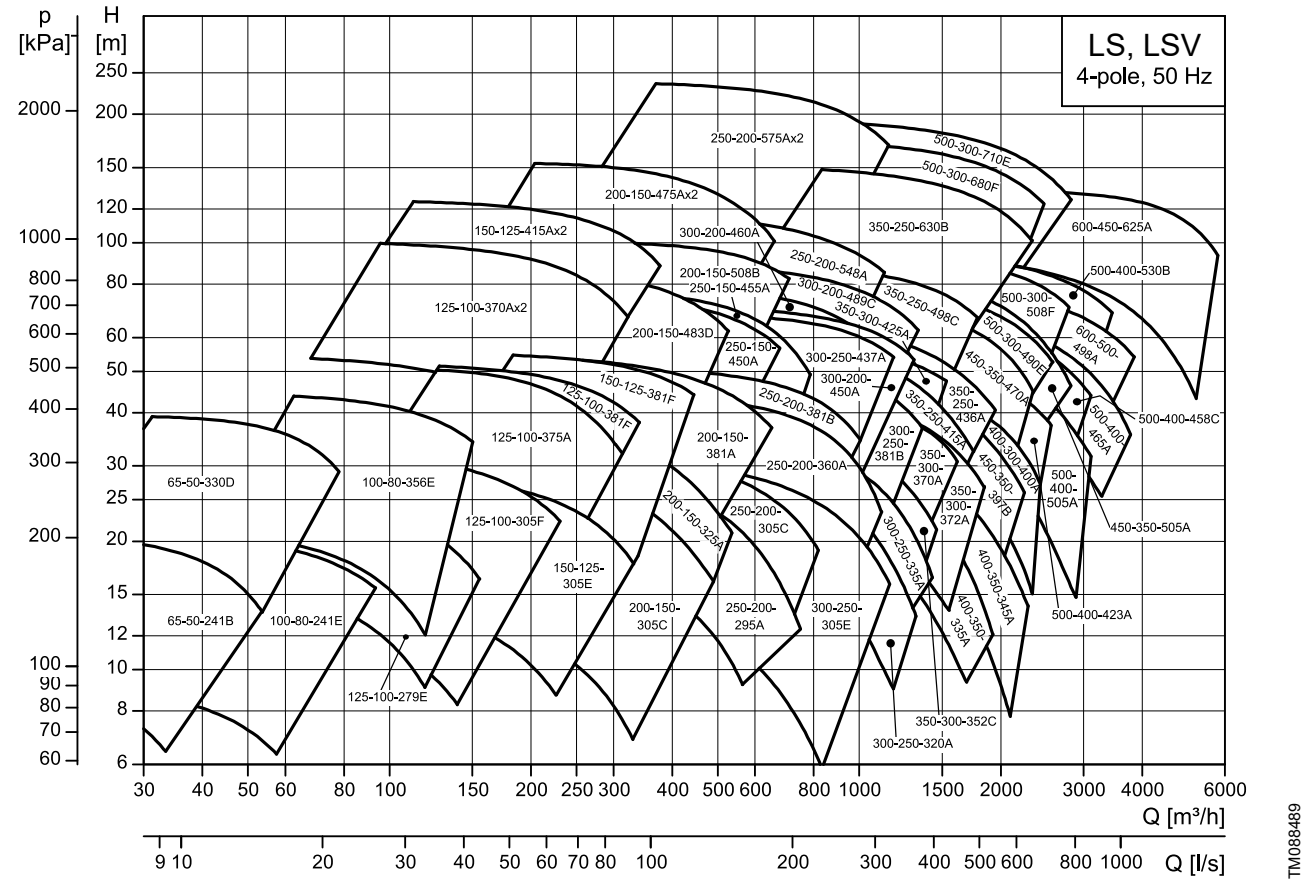
Bare shaft pump

4. Performance range

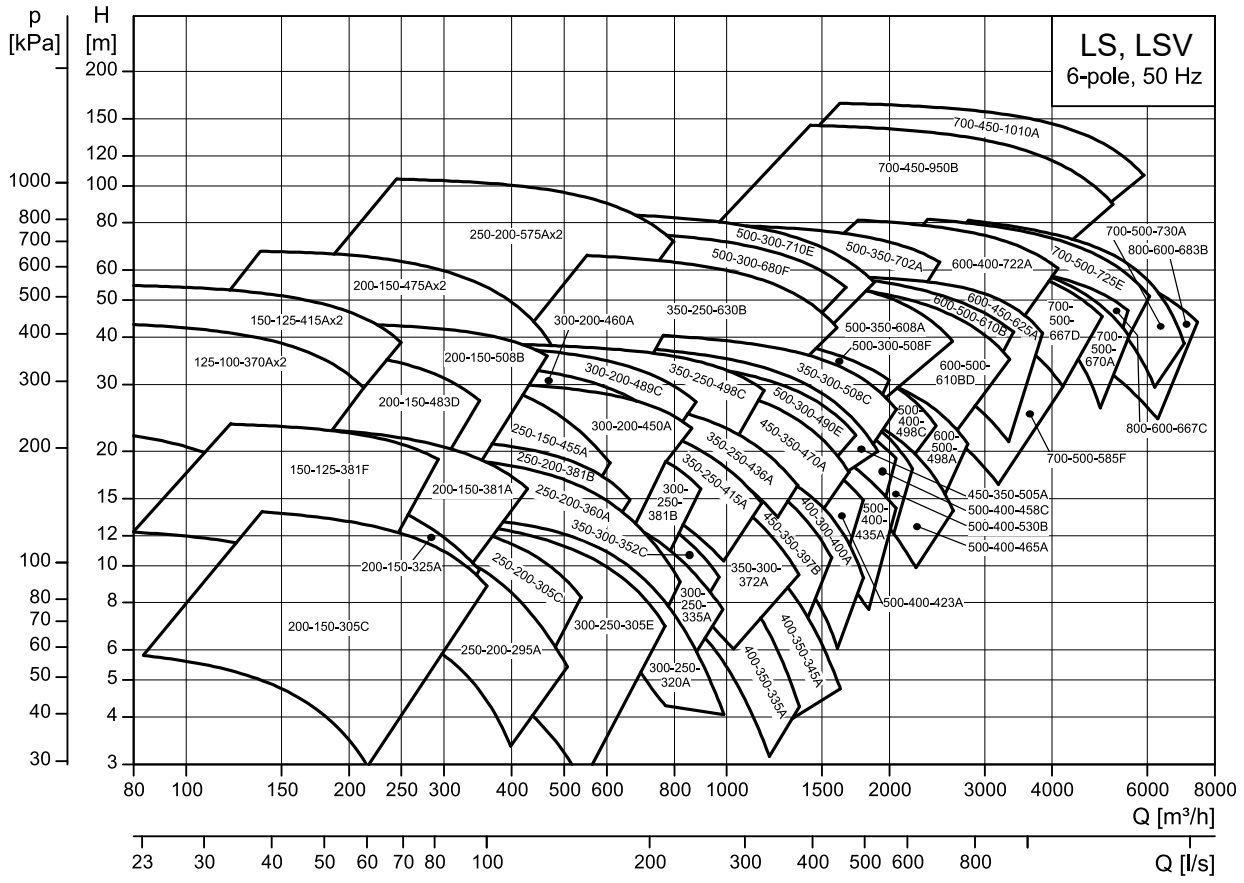
2-pole



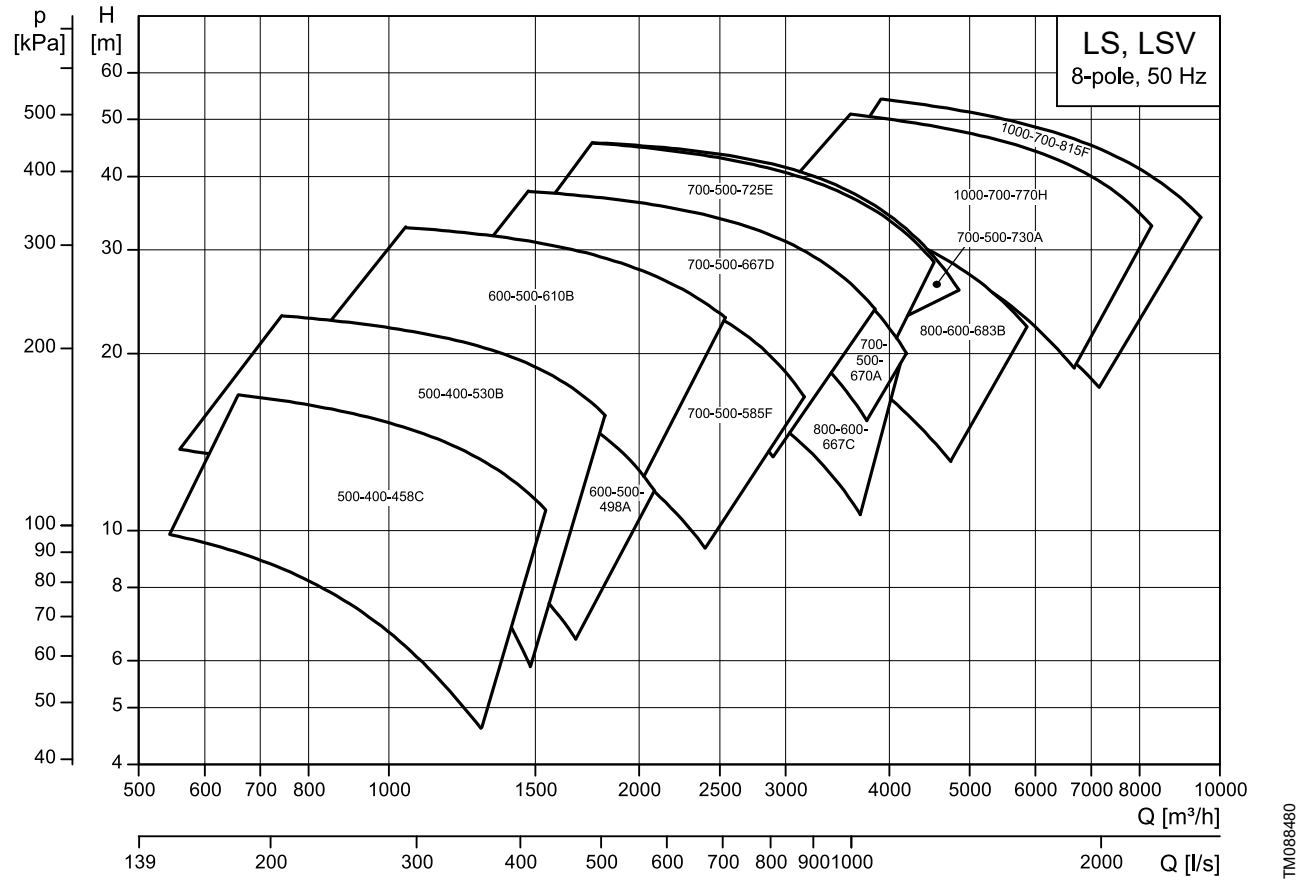
4-pole


LS, LSV
4-pole, 50 Hz
p [kPa]
H [m]
Q [m³/h]
Q [l/s]
TM088489
250-200-575Ax2
500-300-710E
500-300-680F
200-150-475Ax2
150-125-415Ax2
300-200-460A
350-250-630B
600-450-625A
250-200-548A
200-150-508B
250-150-455A
300-200-489C
350-250-498C
500-400-530B
500-300-508F
125-100-370Ax2
350-300-425A
600-500-498A
200-150-483D
250-150-450A
300-250-437A
500-300-490E
450-350-470A
150-125-381F
125-100-381F
300-200-450A
350-250-436A
250-200-381B
350-250-415A
600-400-465A
500-400-458C
125-100-375A
200-150-381A
300-250-381B
400-300-400A
250-200-360A
350-300-370A
450-350-397B
65-50-330D
100-80-356E
500-400-505A
350-300-372A
125-100-305F
200-150-325A
250-200-305C
450-350-505A
300-250-335A
150-125-305E
400-350-345A
65-50-241B
100-80-241E
200-150-305C
250-200-295A
300-250-305E
400-350-335A
500-400-423A
125-100-279E
350-300-352C
300-250-320A

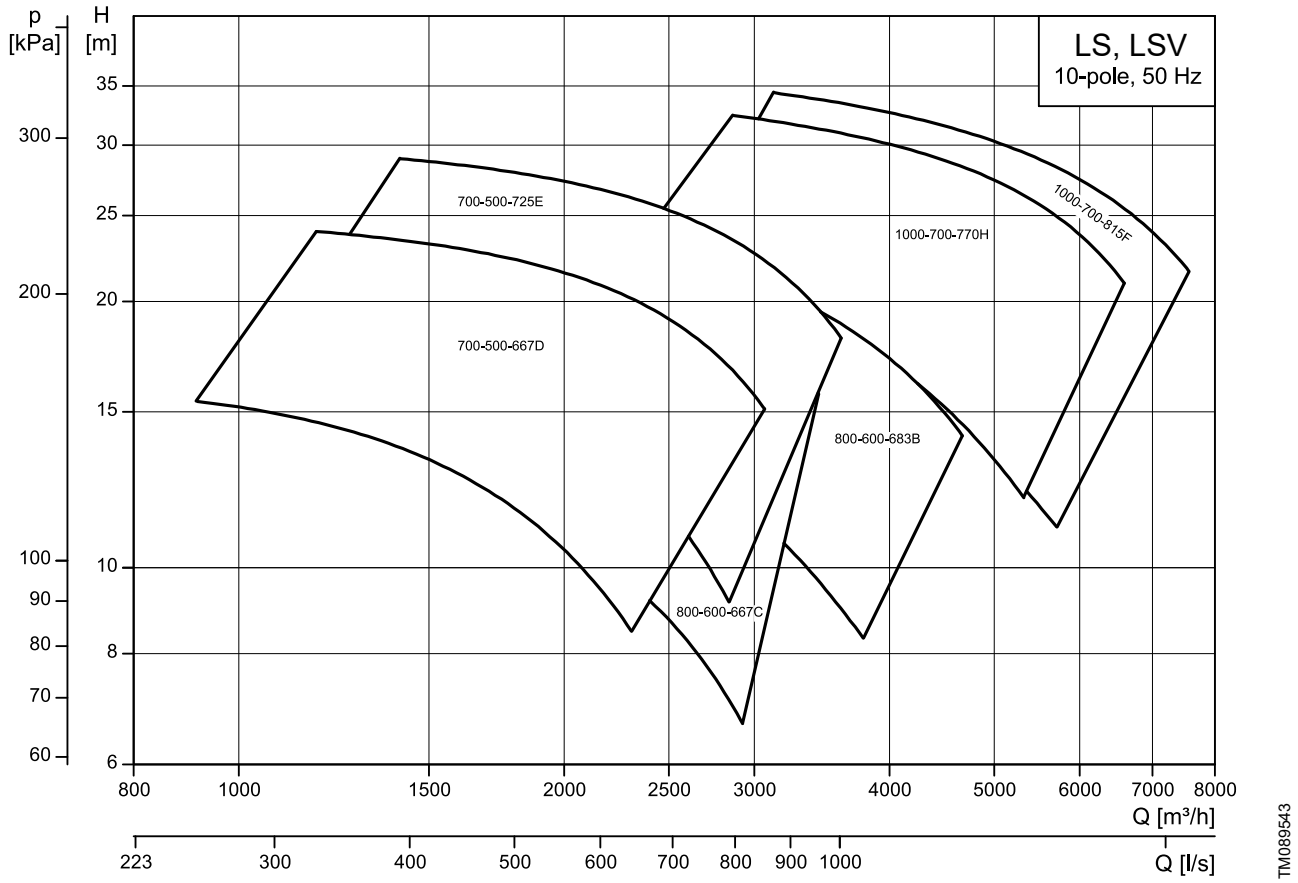
6-pole


LS, LSV
6-pole, 50 Hz
p [kPa]
H [m]
Q [m³/h]
Q [l/s]
700-450-1010A
700-450-950B
250-200-575Ax2
500-300-710E
500-300-680F
500-350-702A
600-400-722A
700-500-730A
800-600-683B
700-500-725E
200-150-475Ax2
350-250-630B
600-450-625A
600-500-610B
700-500-667D
700-500-670A
150-125-415Ax2
300-200-460A
500-350-608A
500-300-508F
125-100-370Ax2
200-150-508B
600-500-610BD
300-200-489C
350-250-498C
350-300-508C
200-150-483D
500-300-490E
500-400-498C
600-500-498A
800-600-667C
300-200-450A
450-350-470A
250-150-455A
350-250-436A
700-500-585F
250-200-381B
150-125-381F
350-250-415A
200-150-381A
300-250-381B
450-350-505A
250-200-360A
500-400-458C
500-400-530B
350-300-352C
500-400-435A
450-350-397B
300-200-400A
500-400-465A
200-150-325A
350-300-372A
250-200-305C
500-400-423A
300-250-335A
200-150-305C
300-250-305E
400-350-345A
250-200-295A
400-350-335A
300-250-320A
TM072783

8-pole


LS, LSV
8-pole, 50 Hz
p [kPa]
H [m]
1000-700-815F
700-500-725E
1000-700-770H
700-500-730A
700-500-667D
600-500-610B
800-600-683B
700-500-670A
500-400-530B
700-500-585F
800-600-667C
500-400-458C
600-500-498A
Q [m³/h]
Q [l/s]
TM088480

10-pole


LS, LSV
10-pole, 50 Hz
p [kPa]
H [m]
700-500-725E
700-500-667D
1000-700-770H
1000-700-815F
800-600-683B
800-600-667C
Q [m³/h]
Q [l/s]
TM089543

5. Product range

Pump configurations

	Standard configuration	Optional configuration
Pump casing	Cast iron	Ductile cast iron Stainless steel
Impeller	Stainless steel	Bronze Duplex stainless steel
Shaft	Stainless steel	
Sleeve	N/A	Stainless steel Duplex stainless steel
Wear ring	Brass	Cast iron Stainless steel Bronze
Shaft seal	Mechanical shaft seal	Stuffing box
Low voltage motor efficiency class (up to 560 kW)	IE4	IE3, IE5
High voltage motor	6 kV, 10 kV	-
Pump direction of rotation	Clockwise (CW) (seen from shaft end)	Counterclockwise (CCW) (seen from shaft end)

To a great extent, the pumps can be adapted to the requirements of the individual customer. For customized solutions, contact your local Grundfos company.

Pump range

The table below gives an overview of the LS, LSV pump range. The table shows the complete pump range and construction types.

LS pumps are available with 2-, 4-, 6-, 8- and 10-pole motors;

Other pole numbers are available on request.

LS single-stage pumps are available in five different standard construction types: type 1, type 2, type 3, type 4 and type 5.

LS double-stage pumps are available in two different standard construction types: type 14 and type 15.

LS single-stage pumps are available in four different optional construction types: type 10, type 11, type 12 and type 13.

LSV single-stage pumps are available in four different standard construction types: type 6, type 7, type 8 and type 9.

LSV double-stage pumps are available in two different standard construction types: type 16 and type 17.

All pump types have a mechanical shaft seal. For further details, please see the construction drawings.

Pump type	Number of poles					Design	LS standard construction type [1]							LSV standard construction type [1]						LS optional construction type [1]			
	2	4	6	8	10		1	2	3	4	5	14	15	6	7	8	9	16	17	10	11	12	13
LS, LSV 65-50-241	•	•				Single-stage	•							•						•			
LS, LSV 65-50-330		•				Single-stage	•							•						•			
LS, LSV 100-80-241	•	•				Single-stage	•							•						•			
LS, LSV 100-80-356		•				Single-stage	•							•						•			
LS, LSV 125-100-279	•	•				Single-stage	•							•						•			
LS, LSV 125-100-305	•	•				Single-stage	•							•						•			
LS, LSV 125-100-370×2		•	•			Double-stage						•						•					
LS, LSV 125-100-375		•				Single-stage	•							•						•			
LS, LSV 125-100-381		•				Single-stage	•							•						•			
LS, LSV 150-125-305		•				Single-stage	•							•						•			
LS, LSV 150-125-381		•	•			Single-stage	•							•						•			
LS, LSV 150-125-415×2		•	•			Double-stage						•						•					
LS, LSV 200-150-305		•	•			Single-stage	•							•						•			
LS, LSV 200-150-325		•	•			Single-stage	•							•						•			
LS, LSV 200-150-381		•	•			Single-stage	•							•						•			
LS, LSV 200-150-475×2		•	•			Double-stage						•						•					
LS, LSV 200-150-483		•	•			Single-stage	•	•						•						•	•		
LS, LSV 200-150-508		•	•			Single-stage		•						•	•	•					•		
LS, LSV 250-150-450		•				Single-stage			•														
LS, LSV 250-150-455		•	•			Single-stage		•						•	•						•		
LS, LSV 250-200-295		•	•			Single-stage	•							•						•			
LS, LSV 250-200-305		•	•			Single-stage	•							•						•			
LS, LSV 250-200-360		•	•			Single-stage	•							•	•					•			
LS, LSV 250-200-381		•	•			Single-stage	•							•						•			
LS, LSV 250-200-548		•				Single-stage				•													
LS, LSV 250-200-575×2		•	•			Double-stage							•						•				
LS, LSV 300-200-450		•	•			Single-stage	•							•	•	•	•			•			
LS, LSV 300-200-460		•	•			Single-stage	•							•	•	•				•			
LS, LSV 300-200-489		•	•			Single-stage		•						•	•	•	•				•		
LS, LSV 300-250-305		•	•			Single-stage	•							•						•			
LS, LSV 300-250-320		•	•			Single-stage	•							•	•					•			

Pump type	Number of poles					Design	LS standard construction type [1]							LSV standard construction type [1]						LS optional construction type [1]			
	2	4	6	8	10		1	2	3	4	5	14	15	6	7	8	9	16	17	10	11	12	13
LS, LSV 300-250-335		•	•			Single-stage	•							•	•					•			
LS, LSV 300-250-381		•	•			Single-stage	•							•	•					•			
LS, LSV 300-250-437		•				Single-stage			•														
LS, LSV 350-250-415		•	•			Single-stage		•						•	•	•					•		
LS, LSV 350-250-436		•	•			Single-stage		•							•	•					•		
LS, LSV 350-250-498		•	•			Single-stage		•						•	•	•				•			
LS, LSV 350-250-630		•	•			Single-stage		•						•	•	•	•				•		
LS, LSV 350-300-352		•	•			Single-stage		•						•							•		
LS, LSV 350-300-370		•				Single-stage			•														
LS, LSV 350-300-372		•	•			Single-stage		•						•	•						•		
LS, LSV 350-300-425		•				Single-stage			•														
LS, LSV 350-300-508			•			Single-stage		•						•	•	•	•				•		
LS, LSV 400-300-400		•	•			Single-stage		•							•	•					•		
LS, LSV 400-350-335		•	•			Single-stage		•						•	•						•		
LS, LSV 400-350-345		•	•			Single-stage		•							•						•		
LS, LSV 450-350-397		•	•			Single-stage					•			•	•	•							•
LS, LSV 450-350-470		•	•			Single-stage					•				•	•						•	
LS, LSV 450-350-505		•	•			Single-stage					•				•	•						•	
LS, LSV 500-300-490		•	•			Single-stage					•											•	
LS, LSV 500-300-508		•	•			Single-stage					•											•	
LS, LSV 500-300-680		•	•			Single-stage					•											•	
LS, LSV 500-300-710		•	•			Single-stage					•											•	
LS, LSV 500-350-608			•			Single-stage					•											•	
LS, LSV 500-350-702			•			Single-stage					•											•	
LS, LSV 500-400-423		•	•			Single-stage					•			•	•	•	•					•	
LS, LSV 500-400-435		•	•			Single-stage					•				•	•						•	
LS, LSV 500-400-458		•	•	•		Single-stage					•			•	•	•	•					•	
LS, LSV 500-400-465		•	•			Single-stage					•				•	•						•	
LS, LSV 500-400-498			•			Single-stage					•											•	
LS, LSV 500-400-530		•	•	•		Single-stage					•											•	
LS, LSV 600-400-722			•			Single-stage					•											•	
LS 600-450-625		•	•			Single-stage					•											•	

Pump type	Number of poles					Design	LS standard construction type [1]							LSV standard construction type [1]						LS optional construction type [1]			
	2	4	6	8	10		1	2	3	4	5	14	15	6	7	8	9	16	17	10	11	12	13
LS, LSV 600-500-498		•	•	•		Single-stage					•			•	•	•	•						•
LS, LSV 600-500-610		•	•	•		Single-stage					•											•	
LS, LSV 700-450-950			•			Single-stage					•											•	
LS, LSV 700-450-1010			•			Single-stage					•											•	
LS, LSV 700-500-585			•	•		Single-stage					•											•	
LS, LSV 700-500-667			•	•	•	Single-stage					•											•	
LS 700-500-670			•	•		Single-stage					•											•	
LS, LSV 700-500-725			•	•	•	Single-stage					•											•	
LS 700-500-730			•	•		Single-stage					•											•	
LS, LSV 800-600-667			•	•	•	Single-stage					•											•	
LS, LSV 800-600-683			•	•	•	Single-stage					•											•	
LS, LSV 1000-700-770				•	•	Single-stage					•											•	
LS, LSV 1000-700-815				•	•	Single-stage					•											•	

[1] For further information on the construction types, see section Construction.

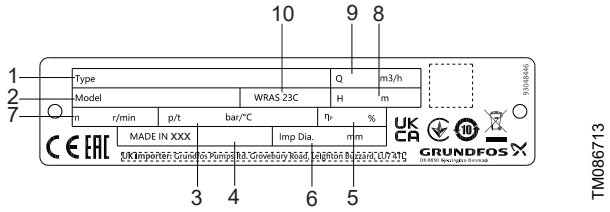
Related information

LS pump, standard construction type 1

6. Identification

Nameplate

The nameplate on the pump gives the details of the pump.



Nameplate of LS/LSV pump

Pos.	Description
1	Type
2	Model
3	Pressure rating and maximum temperature
4	Country of production
5	Hydraulic pump efficiency at optimum efficiency point
6	Impeller diameter [mm]
7	Speed of rotation [r/min]
8	Pump head at rated flow rate [m]
9	Rated flow rate [m^3/h]
10	Drinking water approval

Type key

Example: LS(V)125-100-305X,(W) 1F1DS BBQE 1											
Pos.	1	2	3	4	5	6	7	8	9	10	11
Example	LS(V)	125	-100	-305x	,(W)	1	F1	D	S	BBQE	1

Pos.	Code	Explanation
1	LS(V)	**Type range** LS: Horizontal version LSV: Vertical version
2	125	**Nominal diameter of inlet port (DN)**
3	-100	**Nominal diameter of outlet port (DN)**
4	-305x	**Nominal impeller diameter [mm]** If suffix "x" is used, the impeller or construction design is different, e.g. A, B, C,...Z. If suffix "x2" is used, the impeller is a double-stage impeller.
5	,(W)	**Drinking water approval (optional)** ACS or WARS certified pump
6	1	**Pump variant** 1: Grease-lubrication For LS, pump with motor, common base frame and non-spacer coupling For LSV, pump with motor, base frame, motor stool and non-spacer coupling
		2: Grease-lubrication For LS, bare shaft pump with common base frame, non-spacer coupling For LSV, bare shaft pump with base frame, motor stool and non-spacer coupling
		3: Grease-lubrication For LS, bare shaft pump For LSV, bare shaft pump with base frame
		4: Grease-lubrication For LS, pump with motor, separated base frame and spacer coupling For LSV, pump with motor, base frame, motor stool and spacer coupling
		5: Grease-lubrication For LS, pump with separated base frame and spacer coupling For LSV, bare shaft pump with base frame, motor stool and spacer coupling
		6: Oil-lubrication LS pump with motor, common base frame and non-spacer coupling
		7: Oil-lubrication LS bare shaft pump with common base frame and non-spacer coupling
		8: Oil-lubrication LS bare shaft pump
		9: Oil-lubrication LS pump with motor, separated base frame and spacer coupling
		A: Oil-lubrication LS bare shaft pump with separated base frame and spacer coupling
		X: Special variant
7	F1	**Pipe connection** F1: 10 bar, DIN PN 10 F2: 16 bar, DIN PN 16 F3: 25 bar, DIN PN 25 XX: Special flange G1: 175PSI(12 bar),ANSI125LB/150LB G2: 250PSI(17.2 bar),ANSI250LB/300LB G3: 400PSI(27.6 bar),ANSI250LB/300LB
8	D	**Code for shaft and sleeve materials** D: SS420 and no sleeve E: SS304 and no sleeve J: SS316 and no sleeve L: Duplex stainless steel and no sleeve X: Special B: SS420 and bronze A: SS420 and SS304 C: SS420 and SS316 K: Duplex stainless steel and duplex stainless steel Q: Alloy steel and no sleeve M: Alloy steel and bronze N: Alloy steel and SS304

Pos.	Code	Explanation
9	S	**Code for pump casing and impeller materials** B: Cast iron and bronze S: Cast iron and SS304 C: Cast iron and SS316 D: Cast iron and duplex stainless steel U: SS304 and SS304 K: Duplex stainless steel and duplex stainless steel X: Special A: Ductile iron and bronze Q: Ductile iron and SS304 G: Ductile iron and SS316 H: Ductile iron and duplex stainless steel J: SS316 and SS316 E: Cast steel and SS304 F: Cast steel and SS316
10	BBQE	**Code for shaft seals or stuffing box** BAQE: Rubber bellows unbalance seal, carbon [2], SiC, EPDM AAQE: O-ring unbalance seal, carbon [2], SiC, EPDM DAQE: O-ring balance seal, carbon [2], SiC, EPDM SAQE: Rubber bellows balance seal, carbon [2], SiC, EPDM BBQE: Rubber bellows unbalance seal, carbon, SiC, EPDM ABQE: O-ring unbalance seal, carbon, SiC, EPDM DBQE: O-ring balance seal, carbon, SiC, EPDM SBQE: Rubber bellows balance seal, carbon, SiC, EPDM BQQE: Rubber bellows unbalance seal, SiC, SiC, EPDM AQQE: O-ring unbalance seal, SiC, SiC, EPDM DQQE: O-ring balance seal, SiC, SiC, EPDM SQQE: Rubber bellows balance seal, SiC, SiC, EPDM BBVP: Rubber bellows seal, carbon, aluminium oxide, nitrile rubber SNEK: Stuffing box with synthetic polymer packing rings, uncooled, with internal barrier fluid BAQV: Rubber bellows unbalance seal, carbon [2], SiC, FKM AAQV: O-ring unbalance seal, carbon [2], SiC, FKM DAQV: O-ring balance seal, carbon [2], SiC, FKM SAQV: Rubber bellows balance seal, carbon [2], SiC, FKM BBQV: Rubber bellows unbalance seal, carbon, SiC, FKM ABQV: O-ring unbalance seal, carbon, SiC, FKM DBQV: O-ring balance seal, carbon, SiC, FKM SBQV: Rubber bellows balance seal, carbon, SiC, FKM BQQV: Rubber bellows unbalance seal, SiC, SiC, FKM AQQV: O-ring unbalance seal, SiC, SiC, FKM DQQV: O-ring balance seal, SiC, SiC, FKM SQQV: Rubber bellows balance seal, SiC, SiC, FKM
11	1	**Direction of rotation** (Pump direction of rotation as seen from motor end) 1 Clockwise 2 Counterclockwise

2) Antimony, not approved for potable water.

The example shown is an LS 125-100-305F, standard type with standard coupling, DIN PN 16 flange, cast iron pump casing with SS304 impeller, BBQE mechanical shaft seal and clockwise direction of rotation.

Shaft seal

Codes for mechanical shaft seal

Positions (1) - (4) cover four pieces of information about the mechanical shaft seal:

Example

Code	Explanation
(1)	Grundfos type designation
(2)	Material, rotating seal face
(3)	Material, stationary seat
(4)	Material, secondary seal and other composite and rubber parts

The following table explains positions (1), (2), (3) and (4).

Pos.	Type	Short description of seal
(1)	A	O-ring seal, unbalanced
	B	Rubber bellows seal, unbalanced
	D	Balanced O-ring seal (with the spring on the atmospheric side (protected from media) and with the spring in the media)
	S	Rubber bellows seal, balanced
	H	Cartridge seal, balanced
Pos.	**Type**	**Material**
(2) and (3)	A	Carbon, metal-impregnated (antimony, not approved for potable water)
	B	Carbon, resin-impregnated (approved for potable water)
	Q	Silicon carbide
	U	Tungsten carbide
	V	Aluminium oxide
(4)	E	EPDM
	P	Nitrile rubber (NBR)
	V	FKM (Viton®)

Grundfos can offer other types of mechanical shaft seals, please contact Grundfos.

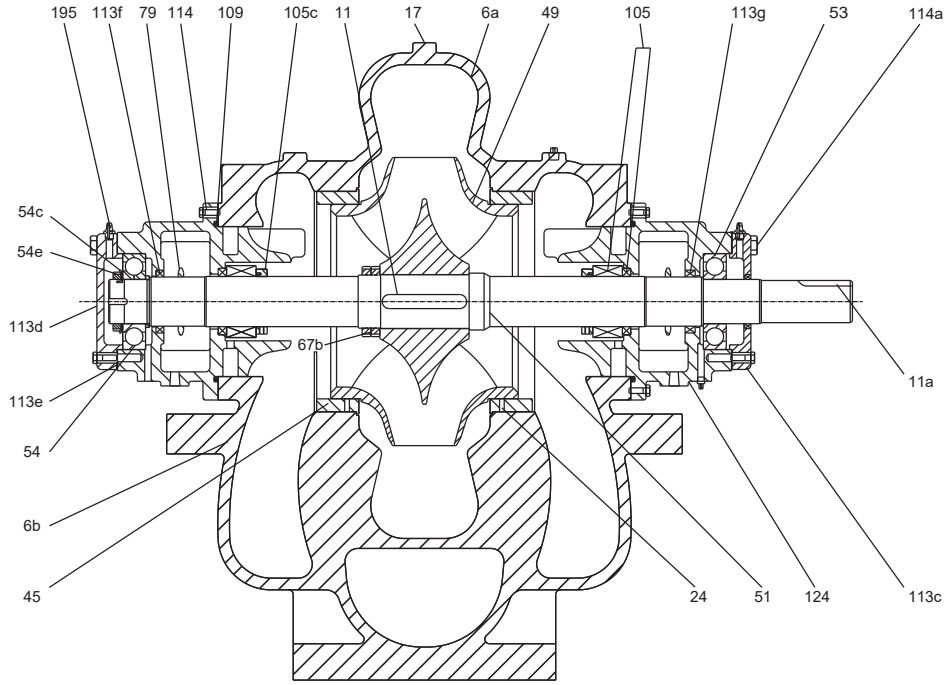
Codes for stuffing box

LS pumps are available with the stuffing box type SNEK. The positions (1) - (4) cover information about the stuffing box:

Pos.	Code	Short description of stuffing box
(1)	S	Stuffing box with packing rings
Pos.	**Code**	**Cooling method**
(2)	N	Uncooled stuffing box
Pos.	**Code**	**Barrier liquid**
(3)	E	With internal barrier liquid
(4)	K	PTFE Polytetrafluoroethylene packing rings, NBR O-ring in the pump.

7. Construction

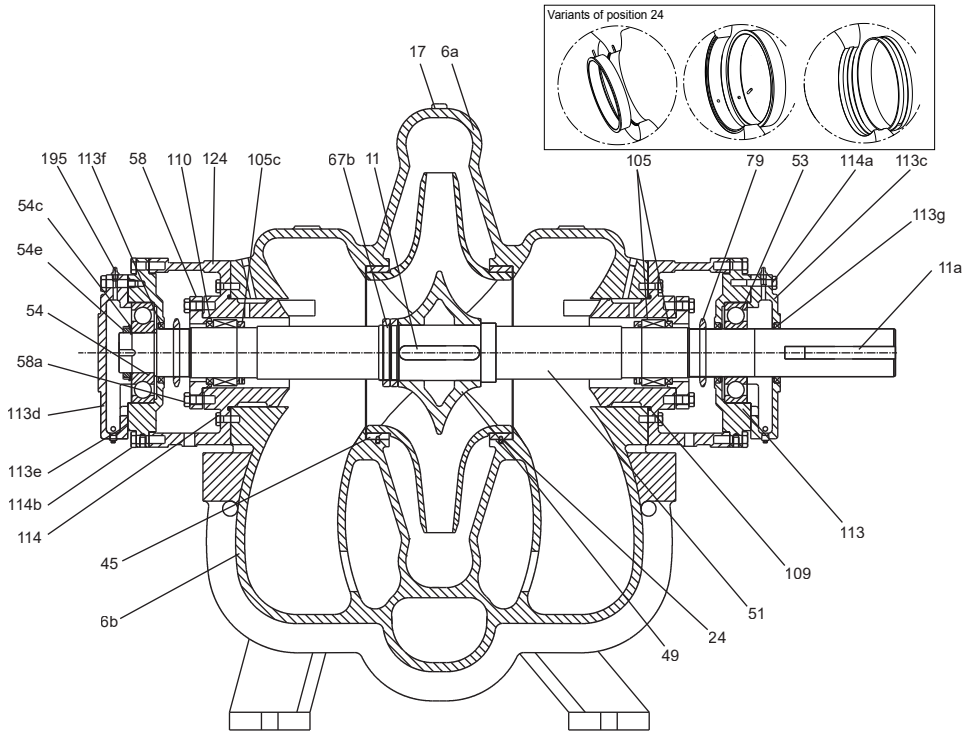
LS pump, standard construction type 1



TM071143

Sectional drawing, standard construction type 1

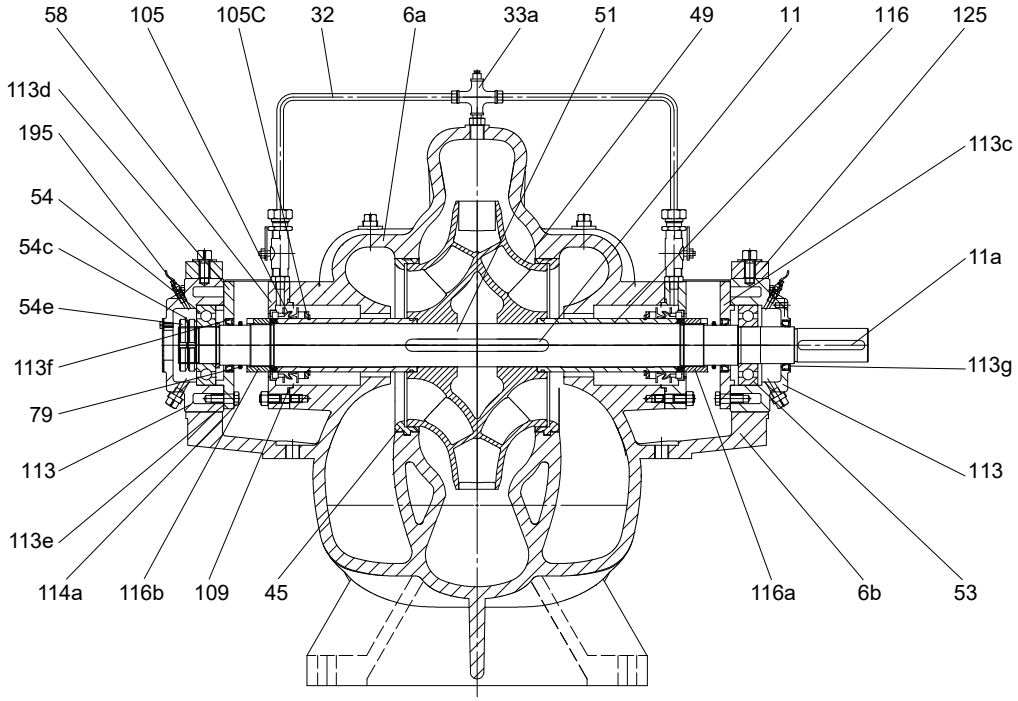
LS pump, standard construction type 2



TM088537

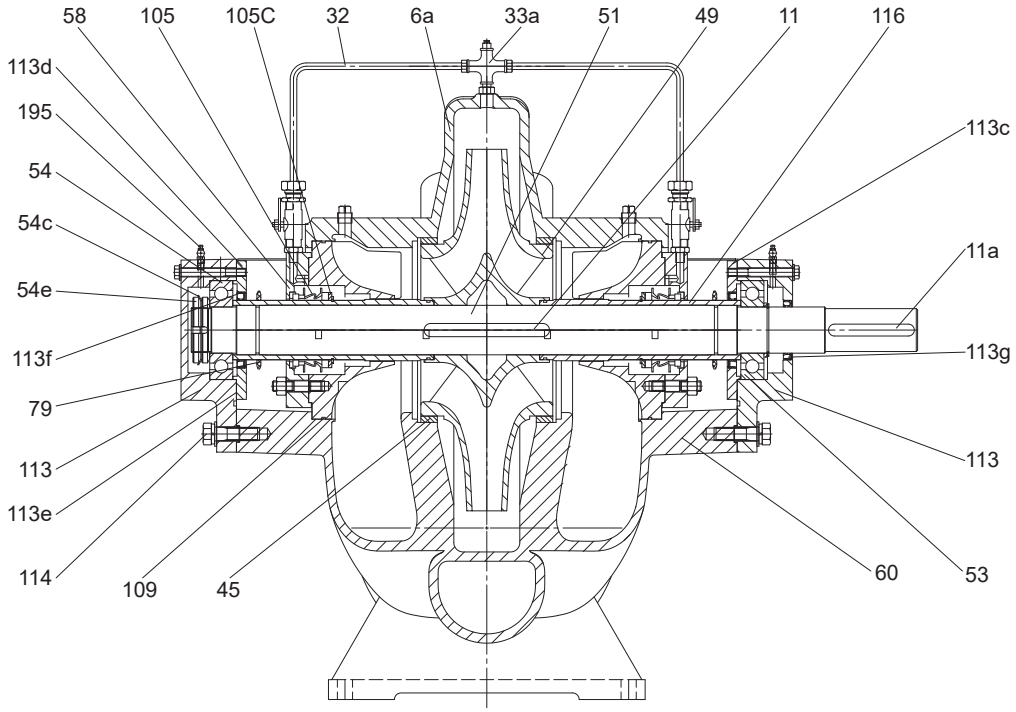
Sectional drawing, standard construction type 2

LS pump, standard construction type 3



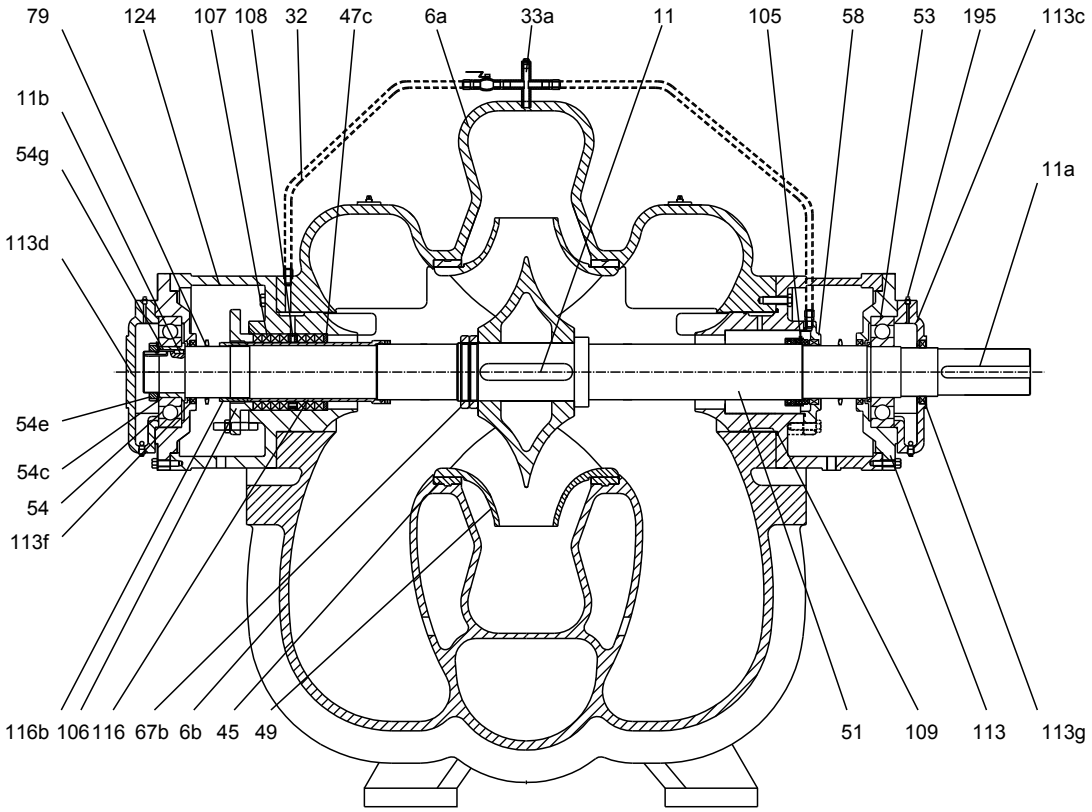
Sectional drawing, standard construction type 3

LS pump, standard construction type 4



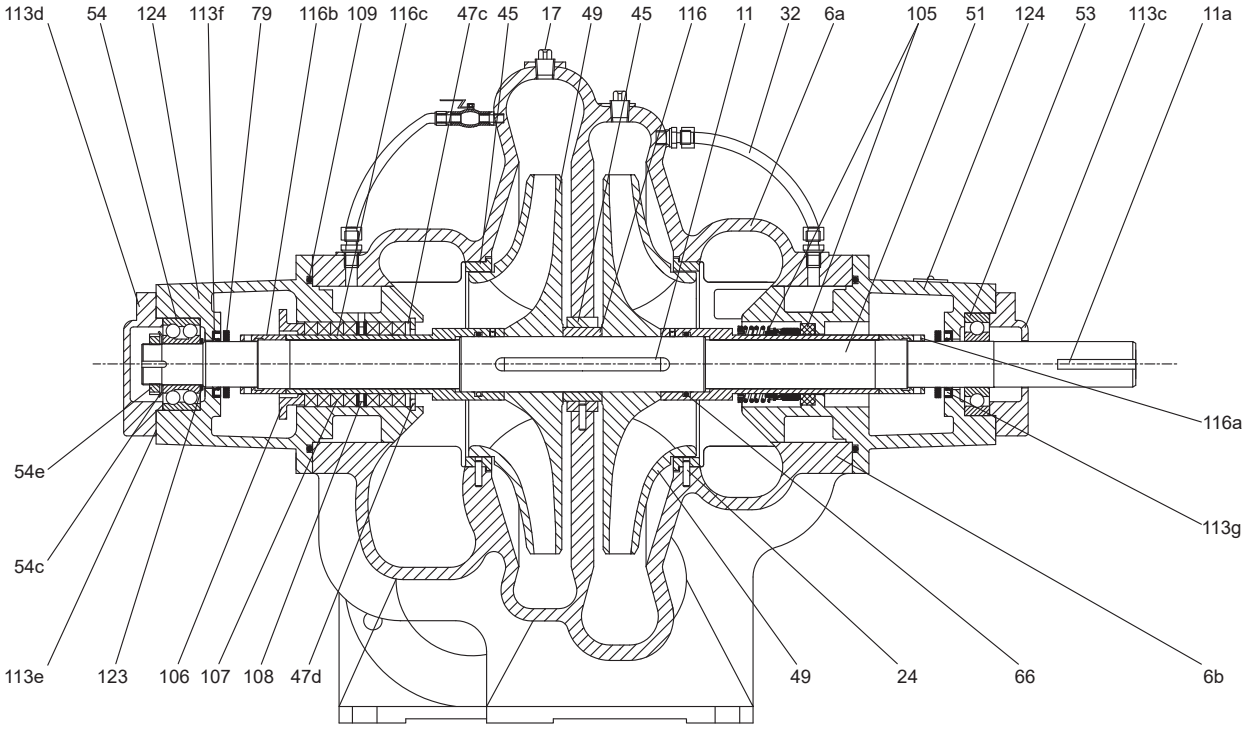
Sectional drawing, optional construction type 4

LS pump, standard construction type 5



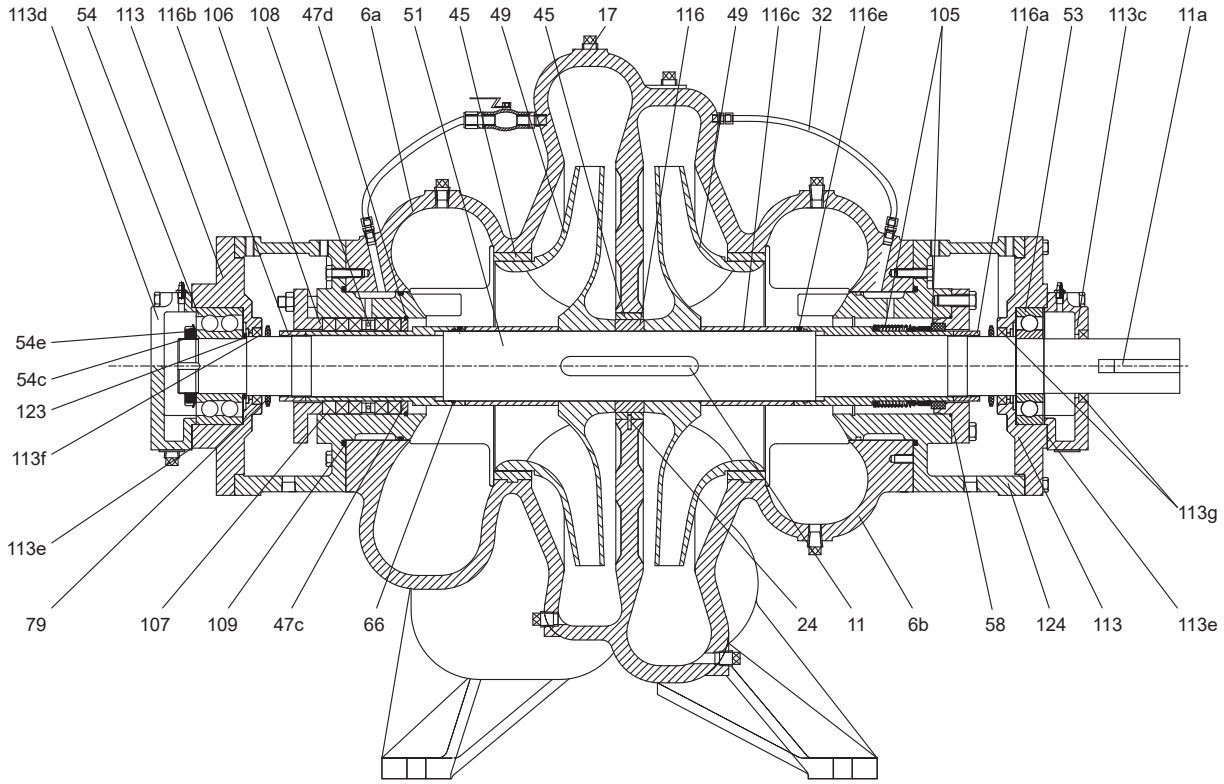
Sectional drawing, standard construction type 5

LS pump, standard construction type 14



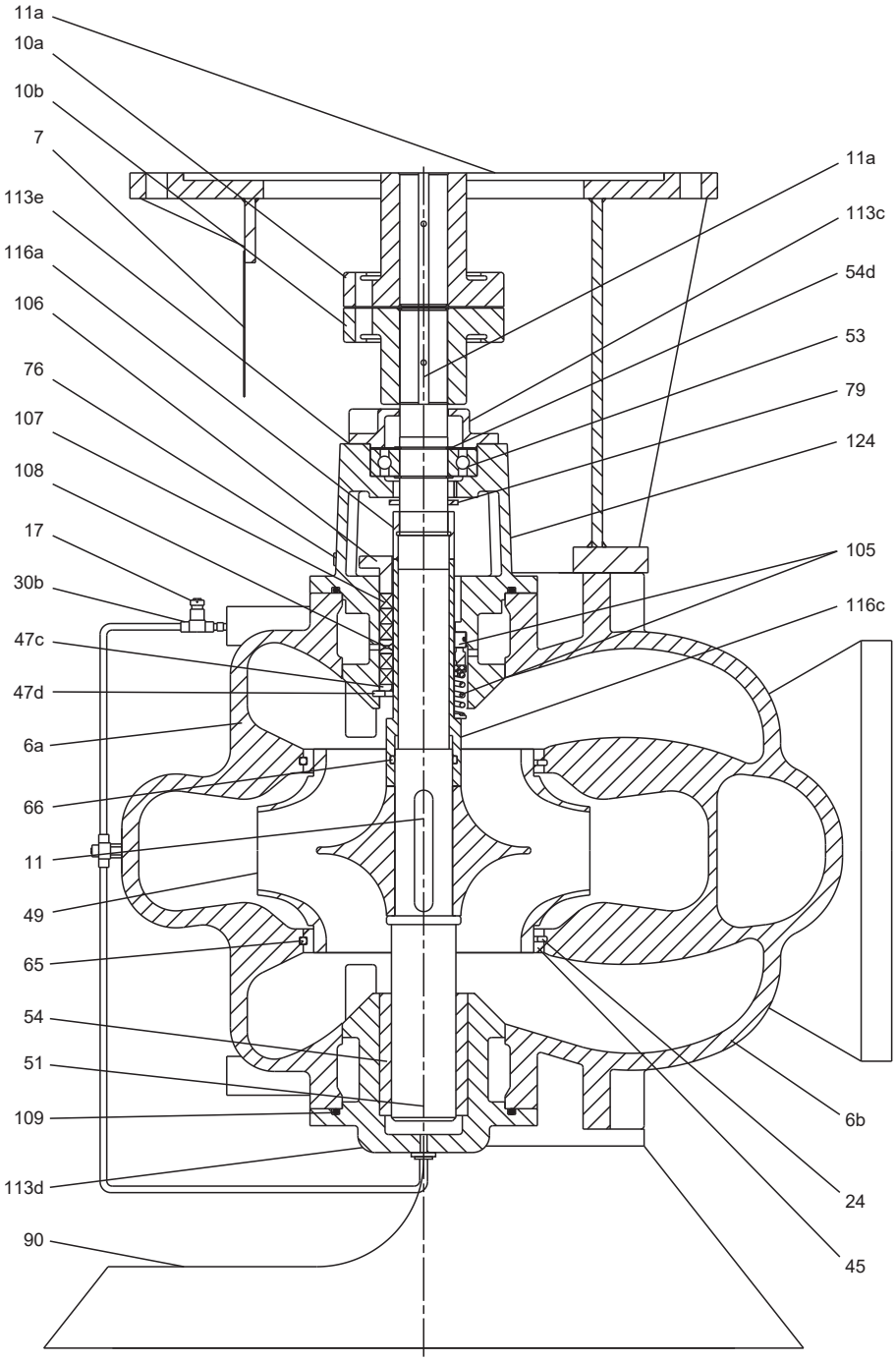
Sectional drawing, standard construction type 14

LS pump, standard construction type 15



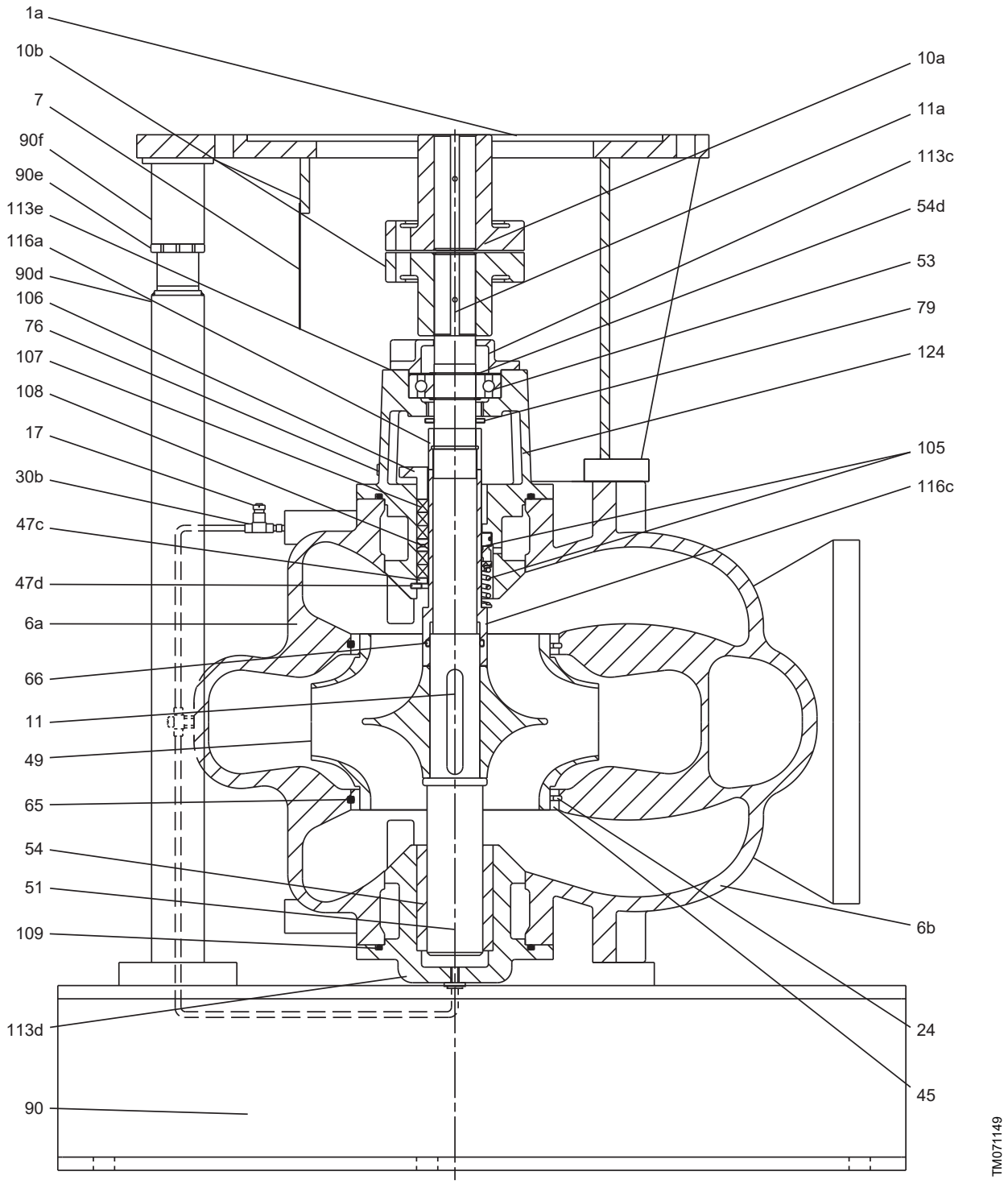
Sectional drawing, standard construction type 15

LSV pump, standard construction type 6



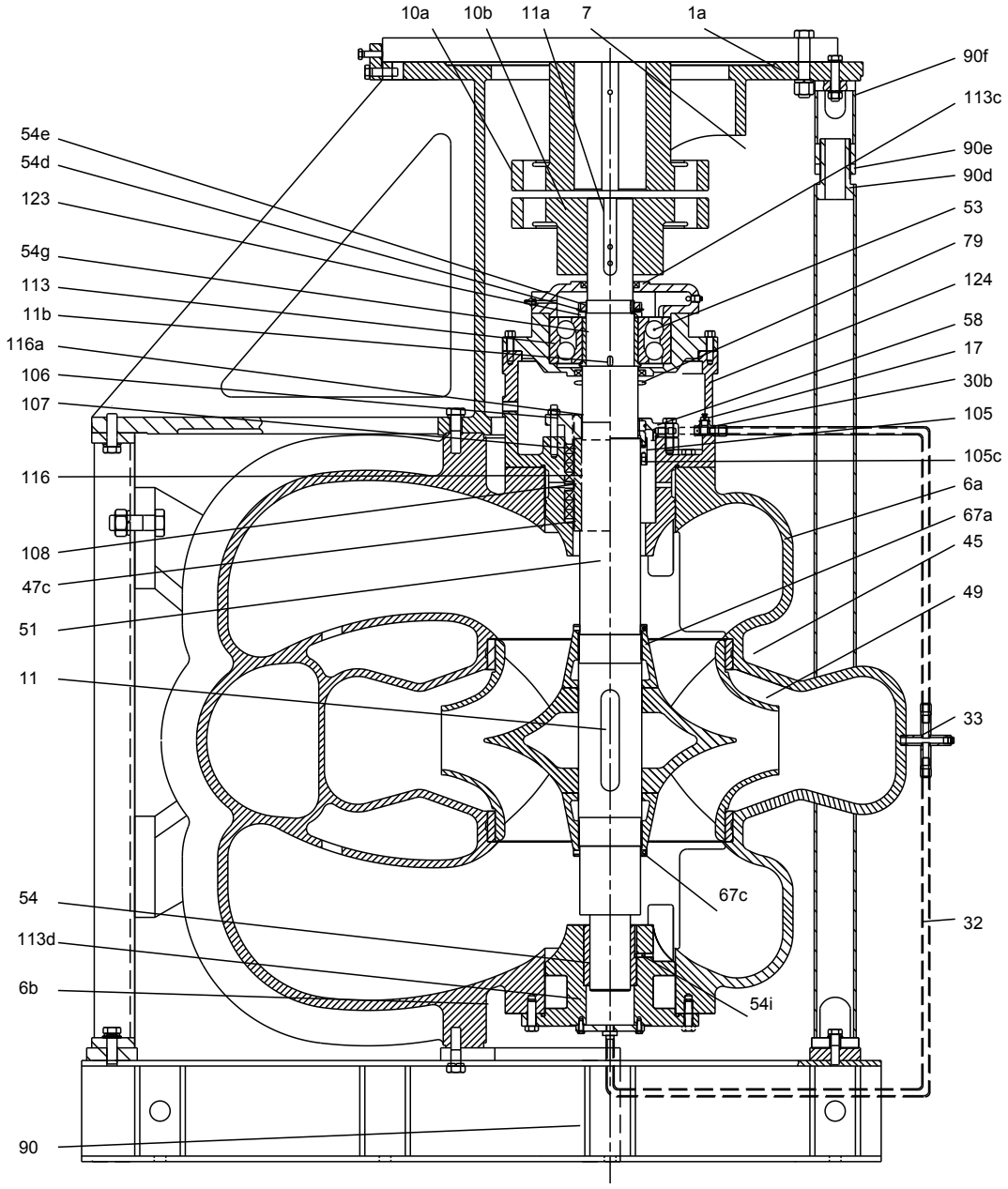
Sectional drawing, standard construction type 6, motor frame size is up to 250

LSV pump, standard construction type 7



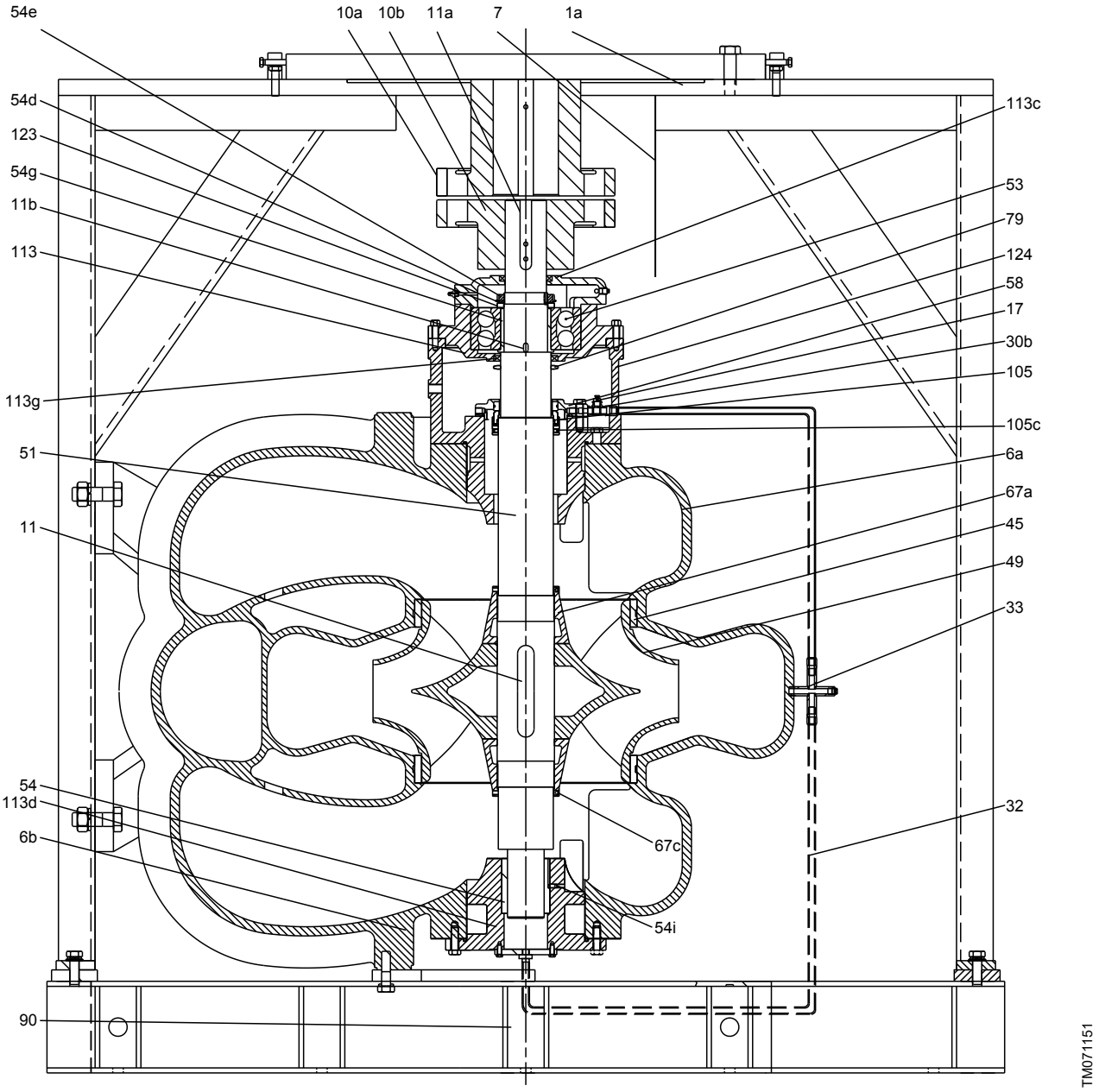
Sectional drawing, standard construction type 7, motor frame size from 280 to 315

LSV pump, standard construction type 8



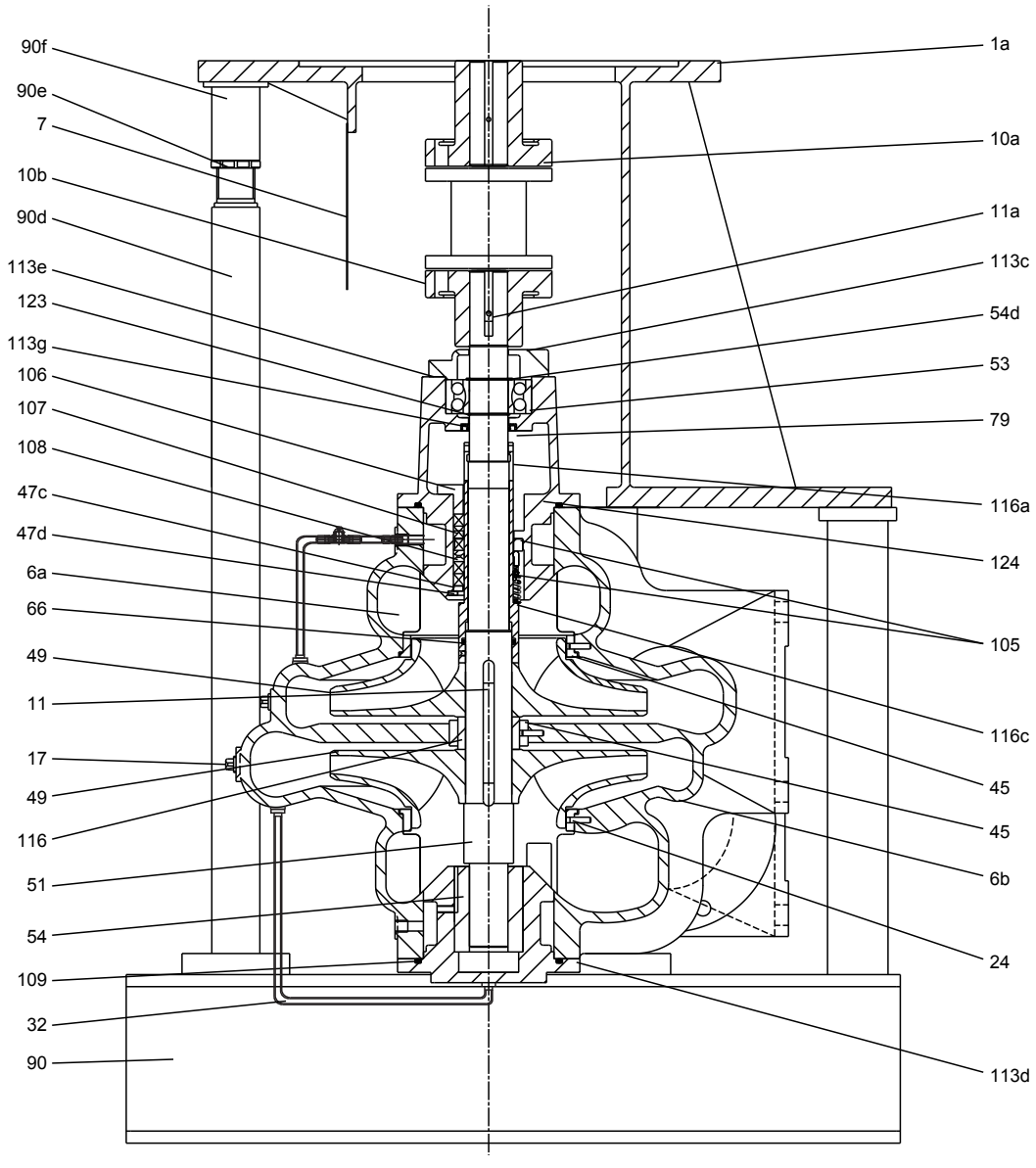
Sectional drawing, standard construction type 8, motor frame size from 355 to 400

LSV pump, standard construction type 9



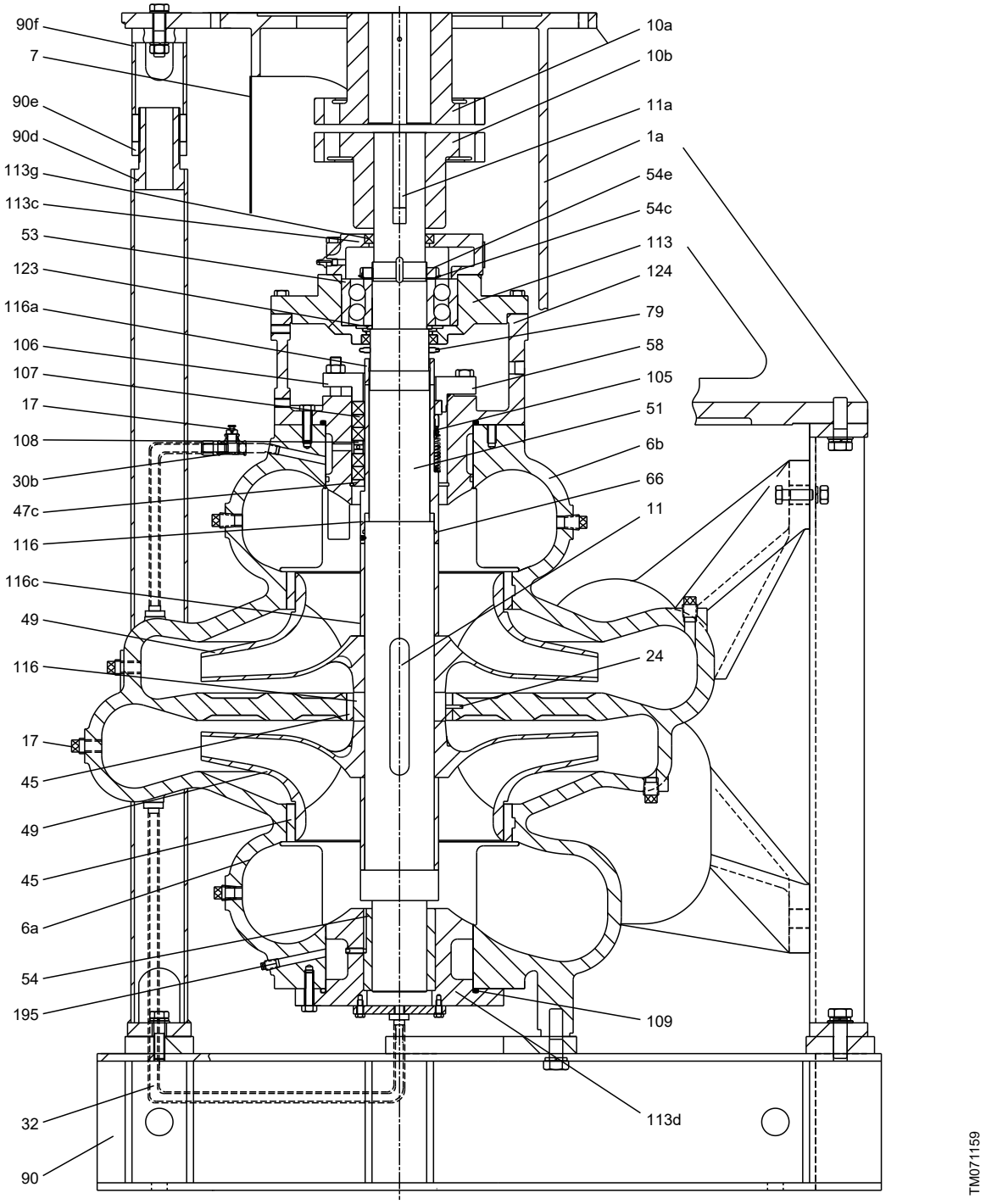
Sectional drawing, standard construction type 9, motor frame size above 400

LSV pump, standard construction type 16



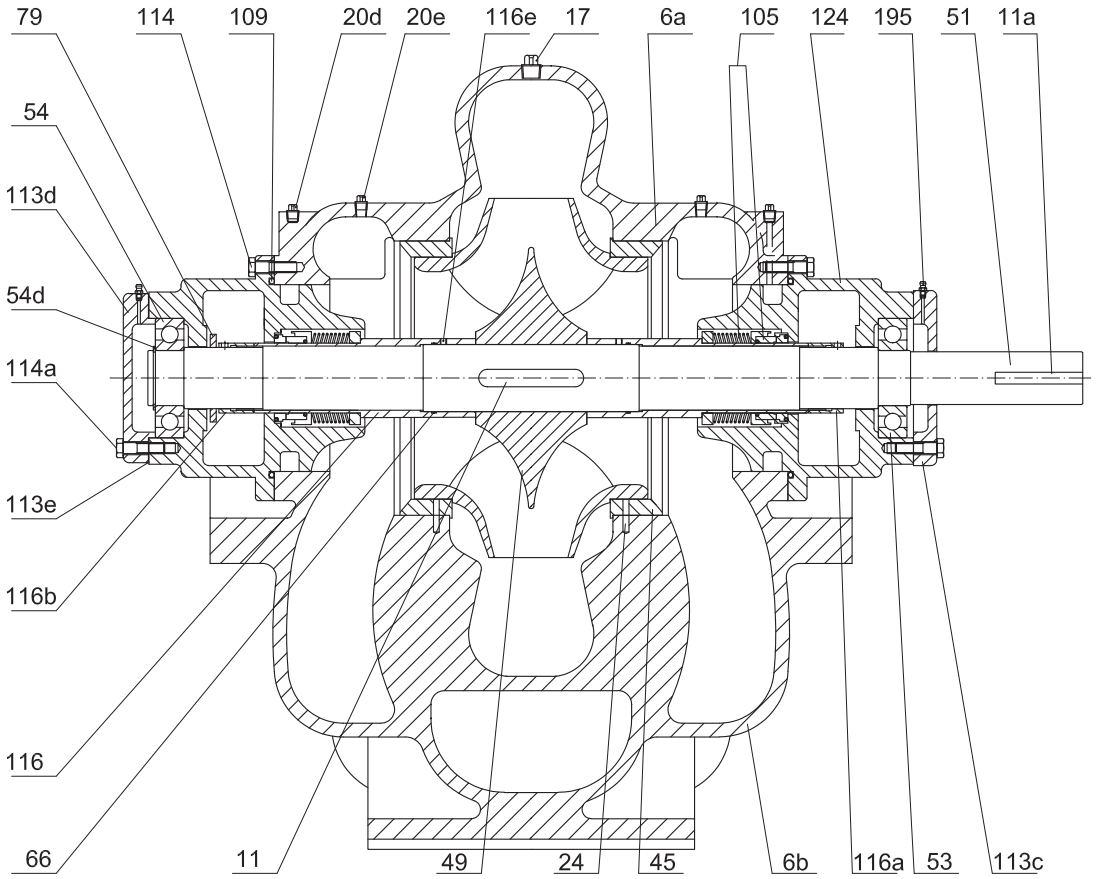
Sectional drawing, standard construction type 16

LSV pump, standard construction type 17



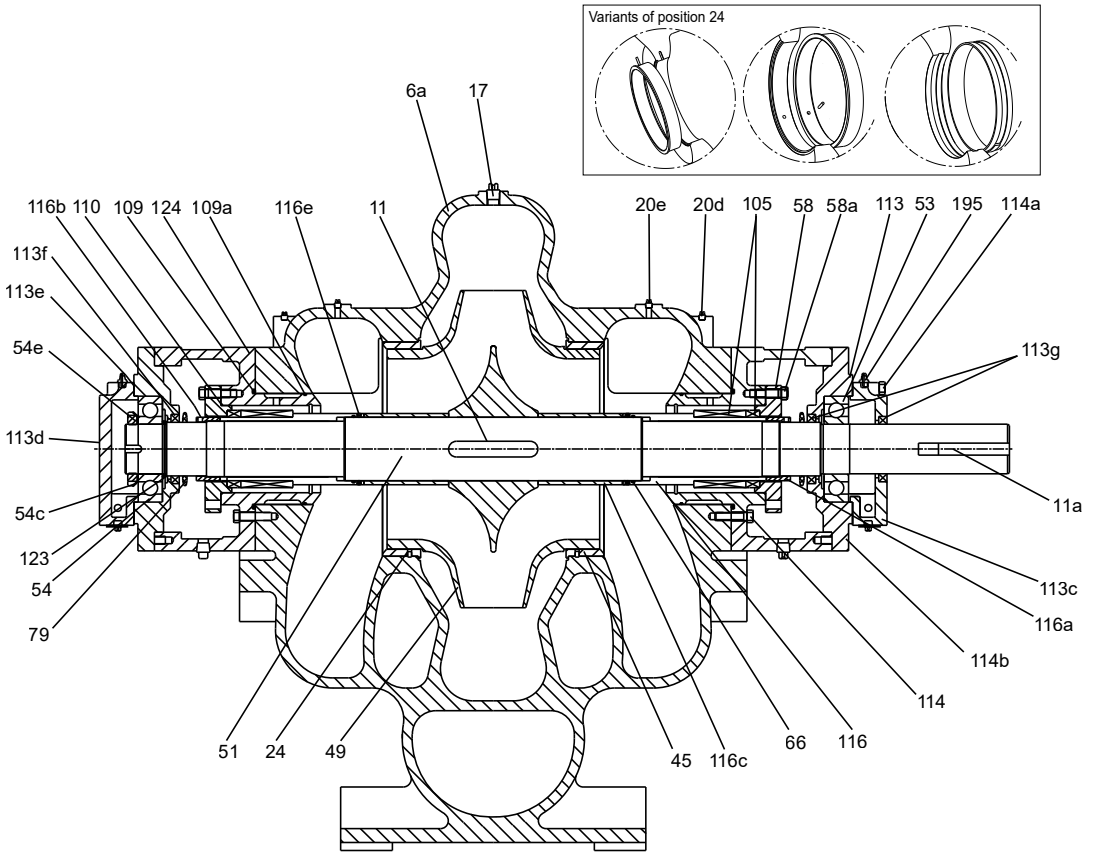
Sectional drawing, standard construction type 17

LS pump, optional construction type 10



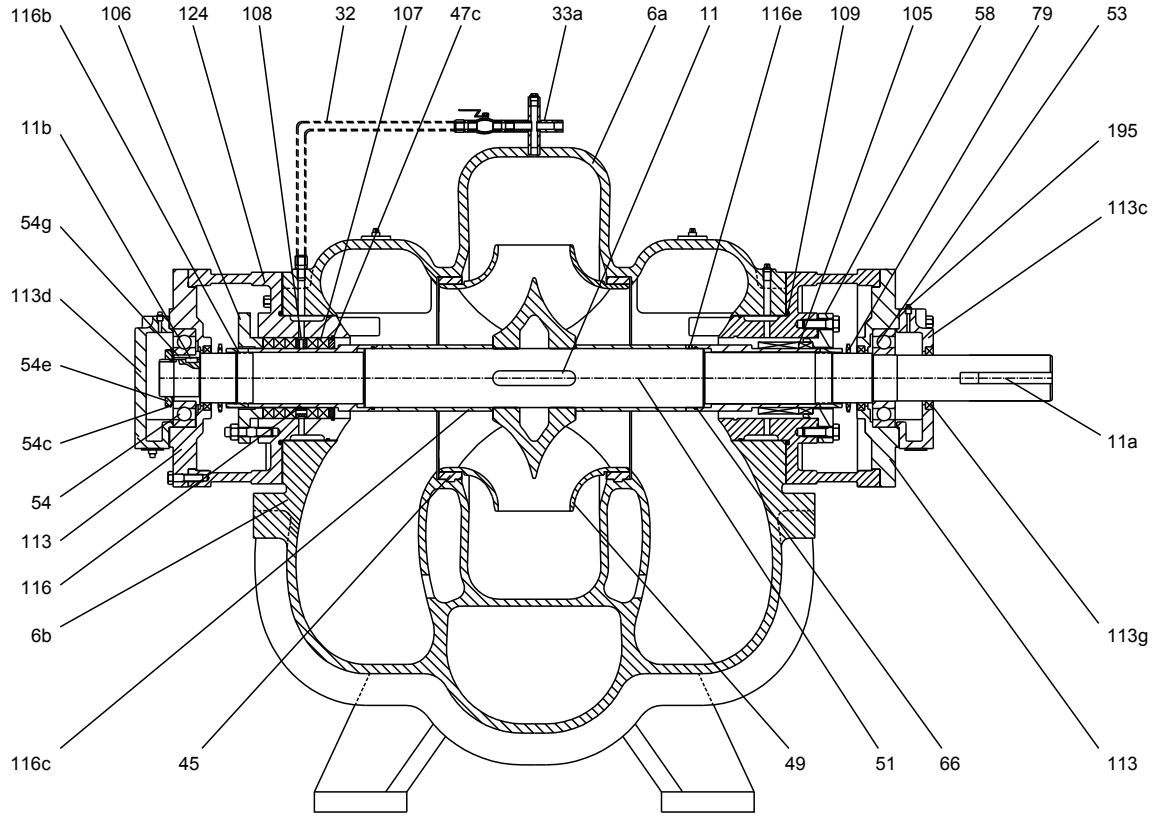
Sectional drawing, optional construction type 10

LS pump, optional construction type 11



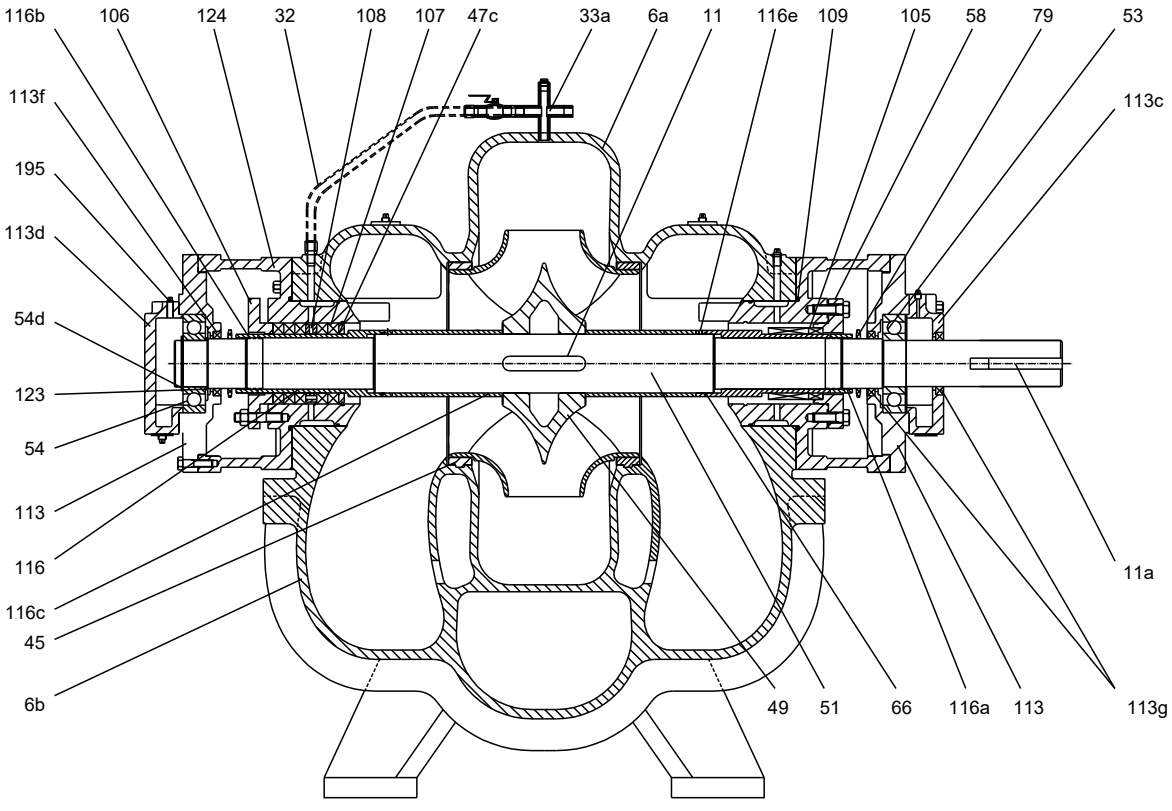
Sectional drawing, optional construction type 11

LS pump, optional construction type 12



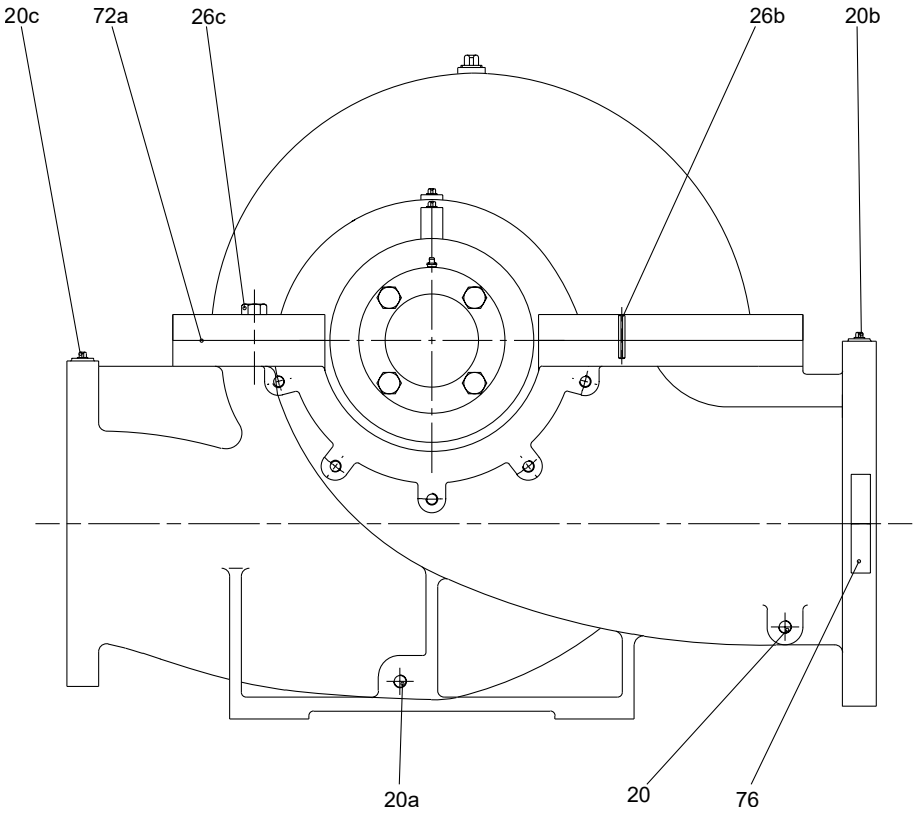
Sectional drawing, optional construction type 12

LS pump, optional construction type 13



Sectional drawing, optional construction type 13

LS pump, typical end view, non-drive end



Typical end view, non-drive end

Material specification

Pos.	Description	Material	Material standard
1a	Bracket	Steel	
6a	Pump casing, upper	Cast iron	ASTM A48 Class35
		Ductile iron	ASTM A536, 65-45-12
6b	Pump casing, lower	Cast iron	ASTM A48 Class35
		Ductile iron	ASTM A536, 65-45-12
7	Coupling cover	Stainless steel	AISI 304
10a	Coupling half, motor shaft	Cast iron	ASTM A48 Class35
10b	Coupling half, pump shaft	Cast iron	ASTM A48 Class35
11	Key, impeller	Steel	ASTM A216 WCB
11a	Key, coupling	Steel	ASTM A216 WCB
11b	Key, bearing sleeve	Steel	ASTM A216 WCB
17	Vent screw	Bronze	
20	Drain plug	Steel	
20a	Plug, drain outlet	Steel	
20b	Plug, inlet	Steel	
20c	Plug, outlet	Steel	
20d	Plug, shaft seal flushing	Steel	
20e	Plug, inlet chamber	Steel	
24	Locking pin, wear ring	Steel	ANSI/ASME B18.8
26b	Roll pin	Steel	ANSI/ASME B18.8
26c	Screw for pump casing	Steel	
30b	Tee, joint	Stainless steel	AISI 304
32	Flushing pipe	Stainless steel	AISI 304
33a	Cross connection	Stainless steel	AISI 304
45	Wear ring	Bronze	ASTM B584, C90500
47c	Retainer for packing	Steel	ASTM A216 WCB
47d	Snap ring for packing	Carbon steel	
49	Impeller	Stainless steel	ASTM CF8
51	Shaft	Stainless steel	AISI 420
53	Bearing, drive end	Steel	
54	Bearing, non-drive end	Steel/Bronze	
54c	Lock washer	Steel	
54d	Circlip	Steel	ASTM A216 WCB
54g	Bearing sleeve	Cast iron	ASTM A48 Class35
54e	Round nut for bearing	Steel	ASTM A216 WCB
54i	Set screw for sliding bearing	Steel	
58	Seal cover	Cast iron	ASTM A48 Class35
58a	Screw	Steel	
65	Snap ring	Stainless steel	
66	O-ring for sleeve	NBR	
67a	Impeller nut	Stainless steel	
67b	Round nut for impeller	Stainless steel	
67c	Set screw for impeller nut	Stainless steel	AISI 304
72a	Gasket	Vegetable fiber	
76	Name plate	Stainless steel	AISI 304
79	Slinger	Neoprene	
90	Base-stand	Cast iron/Steel	
90d	Support lower	Steel	
90e	Round nut for support	Steel	
90f	Support upper	Steel	
105	Shaft seal	BBQV/GBQV	SiC/Carbon
105c	Seal retaining ring	Stainless steel	AISI 304
106	Packing gland	Cast iron	ASTM A48 Class35

Pos.	Description	Material	Material standard
107	Packing ring	PTFE	PTFE
108	Distribution ring	Steel	ASTM A216 WCB
109	O-ring	NBR	
109a	O-ring	NBR	
110	O-ring	NBR	
110a	Gasket	Vegetable fiber	
113	Bearing housing	Cast iron	ASTM A48 Class35
113c	Bearing cover, drive end	Cast iron	ASTM A48 Class35
113d	Bearing cover, non-drive end	Cast iron	ASTM A48 Class35
113e	Gasket	Vegetable fiber	
113f	Lip seal, non-drive end	NBR	
113g	Lip seal, drive end	NBR	
114	Screw for seal housing	Steel	
114a	Screw for bearing cover	Steel	
114b	Screw for bearing housing	Steel	
116	Shaft sleeve	Stainless steel	AISI 304
116a	Locking sleeve, drive end	Stainless steel	AISI 304
116b	Locking sleeve, non-drive end	Stainless steel	AISI 304
116c	Shaft sleeve, inner	Stainless steel	AISI 304
116e	Screw for shaft sleeve	Steel	
123	Shoulder ring	Steel	
124	Seal housing	Cast iron	ASTM A48 Class35
		Ductile iron	ASTM A536, 65-45-12
195	Lubricating nipple	Bronze	
125	Bearing housing gland	Cast iron	ASTM A48 Class35

Mechanical construction

Position numbers in the following sections refer to the sectional drawings and material specification mentioned in section Construction.

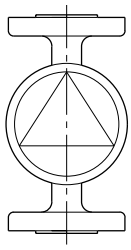
Related information

LS pump, standard construction type 1

Pump casing

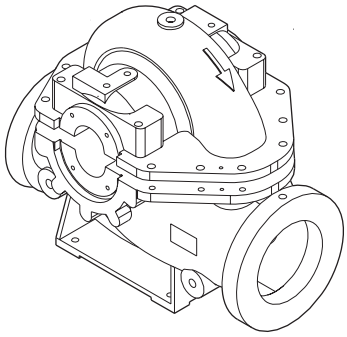
The pump casing has radial inlet port and radial outlet port.

The pumps are of the in-line design.



TM040476

Schematic drawing of an in-line LS pump



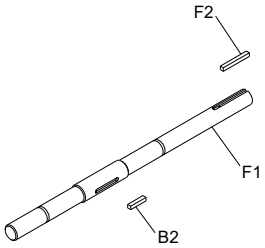
TM040475

Upper and lower pump casing of LS pump

Shaft

The shaft (pos. F1) is of the key and keyway type with one key for the impeller (pos. B2) and one key for the coupling (pos. F2).

The shaft is supported by bearings at both the drive end and the non-drive end of the pump.



TM062864

LS pump shaft

Shaft seal

LS, LSV pumps are available with two types of shaft seal, stuffing box and single mechanical shaft seal.

Bearings

LS pumps are fitted with two deep-groove ball bearings. The bearings are of the open type, and the bearings are lubricated by Grundfos before delivery.

LSV pumps are fitted with one ball bearings at the drive end and one sleeve bearing at the non-drive end of the pump. The ball bearing is of the open type and lubricated by Grundfos before delivery.

Seal housings

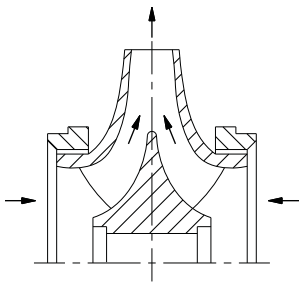
LS, LSV pumps have two seal housings (pos. 124), one at the drive end and one at the non-drive end of the pump shaft.

The seal housing has the following functions:

- It supports the pump sealing system, whether it is a mechanical shaft seal or a stuffing box.
- It supports the bearing housing thus transmitting both radial and axial forces from bearing and shaft to the upper and lower pump casing.
- It has a connection for the flushing pipe. The function of the flushing pipe is to ensure a flow of pumped liquid for cooling and lubricating the mechanical shaft seal or the stuffing box.

Impeller

The pump impeller is a closed double-inlet impeller. The impeller has inflow of liquid from both sides to ensure the balance of axial force.



TM062865

Double-inlet impeller

All impellers are dynamically balanced in accordance with ISO 1940 Class G6.3 standard.

All impellers are trimmed to the duty point required by the customer and dynamically balanced together with the shaft.

Wear rings

LS, LSV pumps have wear rings (pos. 45) between impeller and pump casing.

As the name indicates, the wear rings protect the pump casing against wear. Besides, the wear rings have a sealing function between impeller and pump casing.

When the wear rings become worn, the efficiency of the pump will be reduced, and the wear rings should be replaced.

Coupling

As standard, LS, LSV pumps are fitted with an elastic pin coupling.

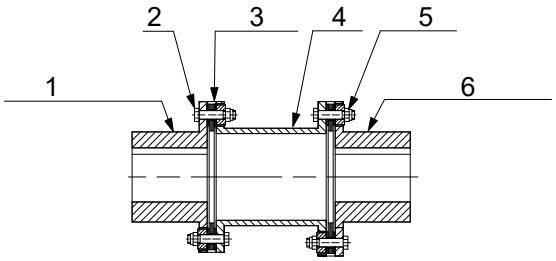
TM063286

Elastic pin coupling

A customised solution with flexible, laminated coupling is available.

TM063287

Flexible, laminated spacer coupling



TM063270

Flexible, laminated spacer coupling construction

Pos.	Description
1	Coupling pump side
2	Bolt
3	Diaphragm
4	Spacer
5	Lock nut
6	Coupling motor side

The coupling design assists in reducing vibrations and cushions shock loads. The design also extends the life of the coupling itself.

In case of other special requirements for the coupling, please contact Grundfos.

A coupling guard is mounted between the pump and the motor and firmly attached to the base.

Mechanical shaft seal

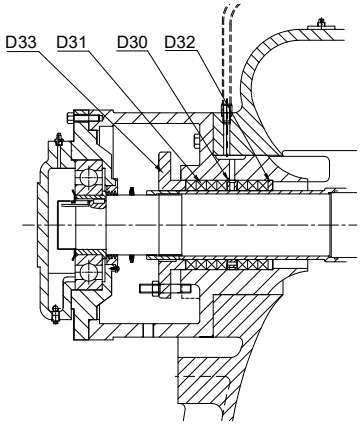
LS, LSV pumps are available with two standard configurations for mechanical shaft seal:

- Rubber bellows unbalanced seals for working pressure less than or equal to 24 bar.
- O-ring balanced seals for working pressure larger than 24 bar.

In case of other special requirements for the mechanical shaft seal, please contact Grundfos.

Stuffing box

The stuffing box includes stuffing box gland (D33), packing rings (D31), washer (D32) and distribution ring (D30).



TM063179

Sectional view of stuffing box

The packing rings consist of braided material which is effective for ensuring long service life for packing rings while protecting the shaft (sleeve). When fitted, the packing rings are symmetrical, having parallel facings that prevent tilting.

In case of other special requirements for the stuffing box (such as soft packing), please contact Grundfos.

Base frame

When the motor frame size is equal to or bigger than 400, pump and motor are mounted on separate base frames.

When the motor frame size is below 400, pump and motor are mounted on a common base frame.

When the pump outlet diameter is equal to or bigger than 500 (except for LS 600-500-498), pump and motor are always mounted on separate base frames.

Hydrostatic test

Before delivery to the customer, LS, LSV pumps are subjected to a hydraulic pressure test. The standard hydrostatic test pressure is according to ISO 5199 Technical specification for centrifugal pumps - Class II.

Motor

Motors for LS, LSV pumps are 50 Hz.

LS, LSV pumps are available with 2-, 4-, 6-, 8- and 10-pole motors.

LS, LSV pumps are available with IE4 motors as standard. IE3 or IE5 motor is an option.

LS, LSV pumps are available with 6 kV or 10 kV high-voltage motors and low-voltage 380 V motors.

Variable frequency drive (VFD) motors are available as an option.

Innomotics motors are available as a standard option. Local or regional motor brands are also available upon customers' requirements. Please contact Grundfos.

8. Operating conditions

Pumped liquids

The pumps are suitable for pumping thin, clean, non-aggressive and non-explosive liquids, not containing solid particles or fibres. The maximum liquid temperature is 100 °C. In case you want to pump liquids with higher temperature or pump other liquids, please contact Grundfos.

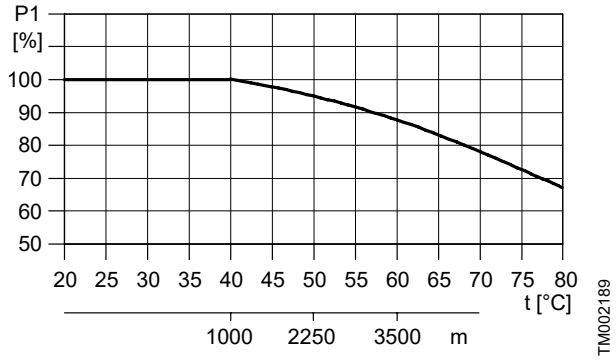
Ambient temperature and altitude

The ambient temperature and the installation altitude are important factors for the motor life, as they affect the life of the bearings and the insulation system.

The ambient temperature must not exceed 40 °C.

If the ambient temperature exceeds 40 °C or if the motor is installed more than 1000 m above sea level, the motor must not be fully loaded due to the low density and consequently low cooling effect of the air.

In such cases, it may be necessary to use a motor with a higher output.



Relationship between motor output (P2) and ambient temperature

Example

The figure above shows that the motor load must be reduced to 88 % when the pump is installed 3500 m above sea level.

At an ambient temperature of 70 °C, the motor load must be reduced to 78 % of the rated output.

Pressures

Max. operating pressure

1.0 MPa (rated head ≤ 75 m)

1.6 MPa (rated head > 75 m).

Min. inlet pressure

The minimum inlet pressure must correspond to the NPSH curve of the pump plus a safety margin of minimum 0.5 m head.

Flow rate

Min. flow rate

The pump must not run against a closed outlet valve as this will cause an increase in temperature and formation of steam in the pump. This may cause shaft damage and impeller erosion, short life of bearings, stuffing boxes with packing rings or mechanical shaft seals due to stress or vibration.

Max. flow rate

If the maximum flow rate is exceeded, cavitation and overload may occur.

Please refer to Grundfos Product Centre or Grundfos Pump Selector or contact Grundfos if you have to operate an LS pump at conditions deviating from the rated duty point.

Sound pressure level

The sound pressure level of whole pump equal to motor sound pressure level plus 3dB(A), which differs due to different brands of motors. If you need a specified value, refer to the motor data sheet or contact local Groudfos.

Maximum particle size

Pump type	Maximum particle size (non-abrasive particles) [mm]
LS, LSV 65-50-241	4.8
LS, LSV 65-50-330	4.1
LS, LSV 100-80-241	7.9
LS, LSV 100-80-356	7.9
LS, LSV 125-100-279	9.7
LS, LSV 125-100-305	19.1
LS, LSV 125-100-370×2	14.2
LS, LSV 125-100-375	6.7
LS, LSV 125-100-381	6.4
LS, LSV 150-125-305	16
LS, LSV 150-125-381	19.1
LS, LSV 150-125-415×2	14.2
LS, LSV 200-150-305	25.4
LS, LSV 200-150-325	8.1
LS, LSV 200-150-381	20.6
LS, LSV 200-150-475×2	17.3
LS, LSV 200-150-483	19.1
LS, LSV 200-150-508	19.1
LS, LSV 250-150-450	20.1
LS, LSV 250-150-455	8.8
LS, LSV 250-200-295	6.9
LS, LSV 250-200-305	22.4
LS, LSV 250-200-360	8.7
LS, LSV 250-200-381	25.4
LS, LSV 250-200-548	26.6
LS, LSV 250-200-575×2	22.9
LS, LSV 300-200-450	26.2
LS, LSV 300-200-460	9.7
LS, LSV 300-200-489	26.2
LS, LSV 300-250-305	25.4
LS, LSV 300-250-320	8.7
LS, LSV 300-250-335	8.6
LS, LSV 300-250-381	31.8
LS, LSV 300-250-437	37.5
LS, LSV 350-250-415	11.4
LS, LSV 350-250-436	10.4
LS, LSV 350-250-498	30.5
LS, LSV 350-250-630	29.7
LS, LSV 350-300-352	22.8
LS, LSV 350-300-370	24
LS, LSV 350-300-372	9.2
LS, LSV 350-300-425	31.2
LS, LSV 350-300-508	47.5
LS, LSV 350-300-508	47.5
LS, LSV 400-300-400	12.5
LS, LSV 400-350-335	9.1
LS, LSV 400-350-345	10.6
LS, LSV 450-350-397	26.6
LS, LSV 450-350-470	12.7
LS, LSV 450-350-505	14.3
LS, LSV 500-300-490	27.2
LS, LSV 500-300-508	30.5
LS, LSV 500-300-680	42.1
LS, LSV 500-300-710	43.1
LS, LSV 500-350-608	30.6
LS, LSV 500-350-702	20.3
LS, LSV 500-400-423	27.1
LS, LSV 500-400-435	11.2
LS, LSV 500-400-458	28.9
LS, LSV 500-400-465	12.1
LS, LSV 500-400-498	32
LS, LSV 500-400-530	30.6
LS, LSV 600-400-722	33.5
LS 600-450-625	14.3
LS, LSV 600-500-498	32
LS, LSV 600-500-610	27.8
LS, LSV 700-450-1010	57
LS, LSV 700-500-585	37.9
LS, LSV 700-500-667	49.7
LS 700-500-670	18.0
LS, LSV 700-500-725	55.5
LS 700-500-730	17.2
LS, LSV 800-600-667	36.2
LS, LSV 800-600-683	47.7
LS, LSV 700-450-950	54
LS, LSV 1000-700-770	47.3
LS, LSV 1000-700-815	53.9

9. Introduction to curve charts and technical data

Selection of the product

Pump size

The selection of pump size should be based on these data:

- required flow rate and pressure
- pressure loss as a result of height differences (geometric lifting height)
- friction loss in the pipework (pipes, bends, valves, etc.)
- best efficiency at the estimated duty point.

Efficiency

If you expect the pump to always operate in the same duty point, select a pump which is operating in a duty point corresponding to the best efficiency of the pump.

In case of varying consumption, select a pump whose best efficiency falls within the duty range covering the greater part of the duty time.

Material

The material variant must be selected on the basis of the liquid to be pumped.

Motor size

The selection of motor size must be based on these parameters:

- flow rate margin, the maximum required flow rate in your application
- motor safety margin.

A selection has to be made for both parameters.

Parameter 1 - flow rate margin in your application

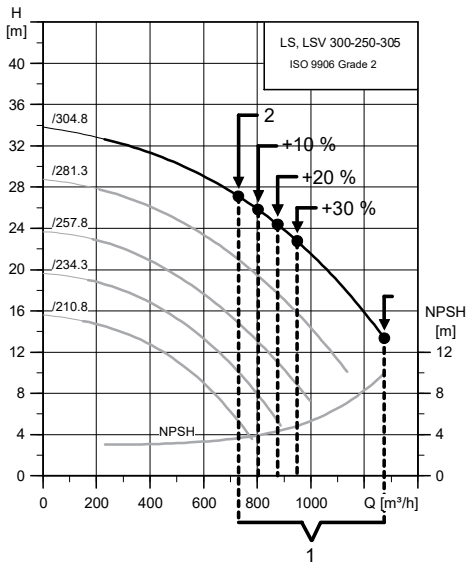
Understanding the operating conditions under which your pump will run is important to ensure long life and trouble-free operation of both the pump and motor. The more specific these parameters are understood, the more refined and specific your motor selection can be.

If you intend to run the pump in one specific duty point, the power absorbed in this point (P2) could in theory be your motor's rated power. However, because of the uncertainties in system calculations or the addition of duty conditions around the primary duty point, it is recommended to have a safety margin for P2 power.

To accomplish this, we recommend the following method for motor selection.

1. Select one of the following flow rate margins for your pump:

- Duty point to the end of the actual curve (default in Grundfos Product Center).
- Duty point +30 %.
- Duty point +20 %.
- Duty point +10 %.

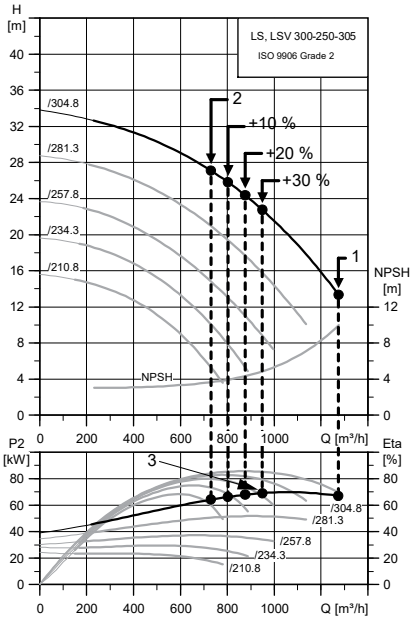


TM071256

Selection of a flow rate margin on basis of conditions around the primary duty point and uncertainties in system calculations

Pos.	Description
1	Flow rate margins
2	Duty point

1. Establish P2 for the selected flow rate margin.

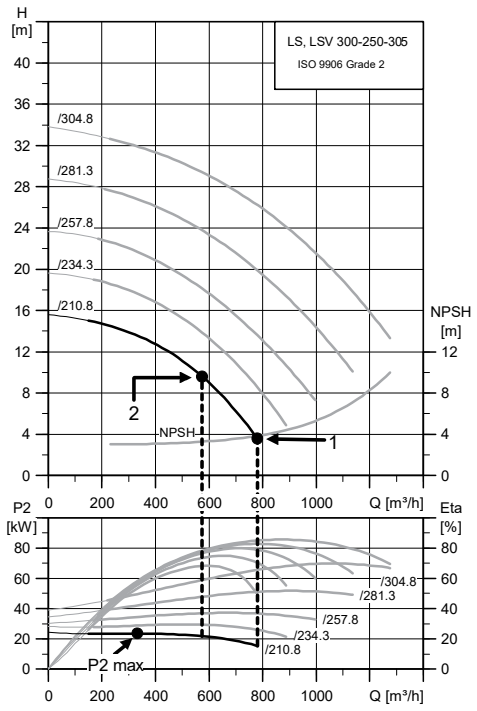


TM071254

Establishing P2 for a selected flow rate margin of 30 %

Pos.	Description
1	Max. flow rate margin
2	Duty point
3	P2 for + 30 %

In some cases, however, the input power actually decreases as the flow rate increases. It will thus be found at some other point within this flow range. This is typically the case when the impeller is trimmed to the smallest diameter.



Establishing the maximum P2 when P2 decreases as the flow rate increases.

Pos.	Description
1	Max. flow rate margin
2	Duty point

Parameter 2 - motor safety margin

As with any system, uncertainties and tolerances exist, the motor safety margin takes the following into account:

- The actual head is at the high end of the tolerance described in ISO 9906. This will increase the required P2.
- Pump efficiency is at the low end of the tolerance described in ISO 9906. This will increase the required P2.
- Motor efficiency is at the low end.

To establish the motor safety margin, select method 1 or alternatively method 2:

Method 1

Add a safety margin as outlined in ISO 5199 to the maximum P2 found when determining parameter 1.

Grundfos recommends the addition of a safety margin in accordance with this standard; default in Grundfos Product Center.

Safety margins according to ISO 5199

Required pump power up to [kW]	Motor power P2 [kW]
540	600
473	525
405	450
360	400
338	375
320	355
302	335
284	315
225	250
180	200
144	160
119	132
99	110
81	90
68	75
49	55
40	45
32.5	37
26	30
19	22
15.9	18.5
12.8	15
9.1	11
6.1	7.5
4.3	5.5
3.2	4
2.3	3
1.7	2.2
1.1	1.5

Method 2

Add a 5 % safety margin to the maximum P2 found when determining parameter 1.

Note that if a safety margin of 5 % is selected, normal guarantees of the performance from Grundfos may not apply.

If not specified by the customer, the motor size will be determined in accordance with the Grundfos Product Center defaults listed above. This means a motor which covers the full performance range and with a motor safety margin according to ISO 5199.

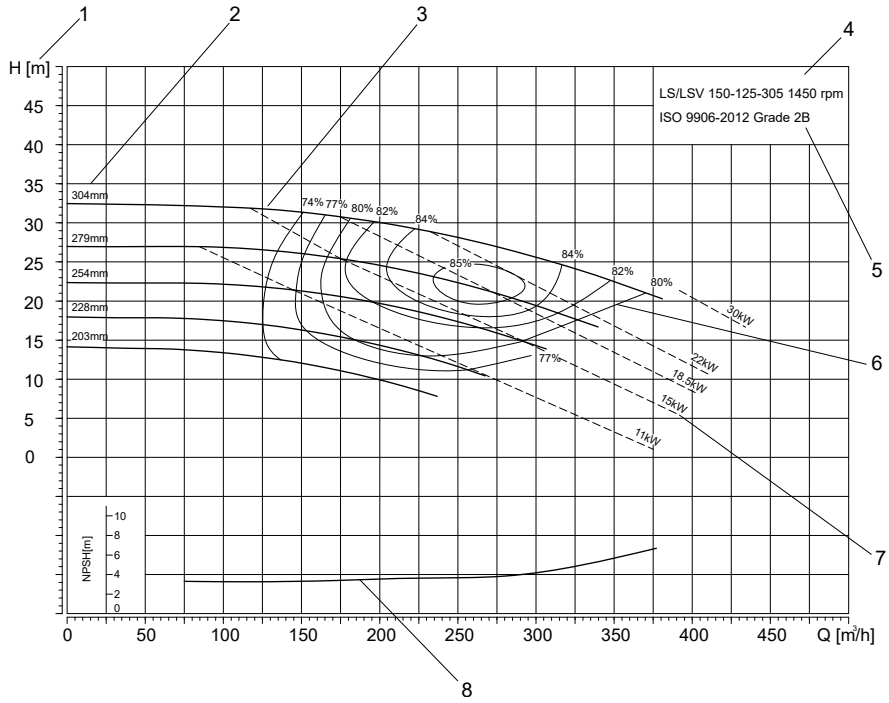
Where to find the information

See performance curves from section Overview to Flange forces and torques.

Related information

Overview

How to read the curve charts



Pos.	Description
1	Total pump head
2	Size of impeller
3	QH curve for the individual pump
4	Pump type and speed
5	Performance tolerance standard
6	Efficiency curves
7	Input power curves
8	The NPSH curve is shown for the maximum size impeller

Curve conditions

The guidelines below apply to the curves shown in section Performance curves and technical data.

- Tolerances are according to ISO 9906, Grade 2B.
- The curves show pump performance with different impeller diameters at rated speed.
- Do not operate the pumps below the minimum continuous safety flow (MCSF) stated on the performance data sheet because of the risk of overheating the pump.
- The curves apply to the pumping of airless water at a temperature of +20 °C and a kinematic viscosity of 1 mm^2/s (1 cSt).
- ETA: The efficiency curves show equivalent values of the hydraulic efficiency of the pump for the different impeller diameters.
- NPSH: The curve shows values measured under the same conditions as the performance curves for the maximum size impeller.
- When sizing the pump, add a safety margin of at least 0.5 m.
- When pumping liquids with a density higher than 1000 kg/m^3, motors with correspondingly higher outputs must be used.

Related information

Overview

Calculation of total head

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

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

H_{geo}:	Height difference between measuring points.
H_{stat}:	Differential head between the inlet and the outlet side of the pump.
H_{dyn}:	Calculated values based on the velocity of the pumped liquid of the inlet and the outlet side of the pump.

Performance tests

The requested duty point for the pump is tested according to ISO 9906.

Witness test

The testing procedure is according to ISO 9906.

If the customer wants to witness the pump test, this request must be submitted with the order.

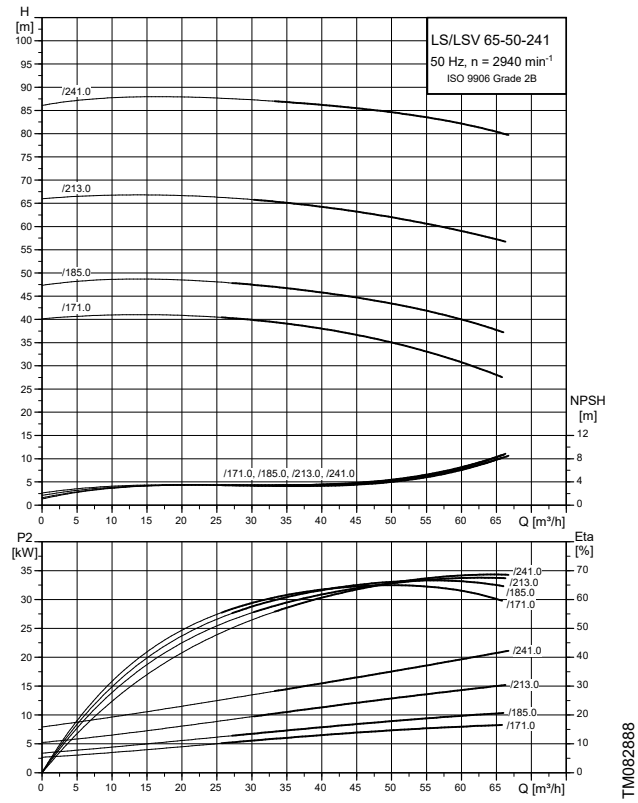
10. Performance curves and technical data

Overview

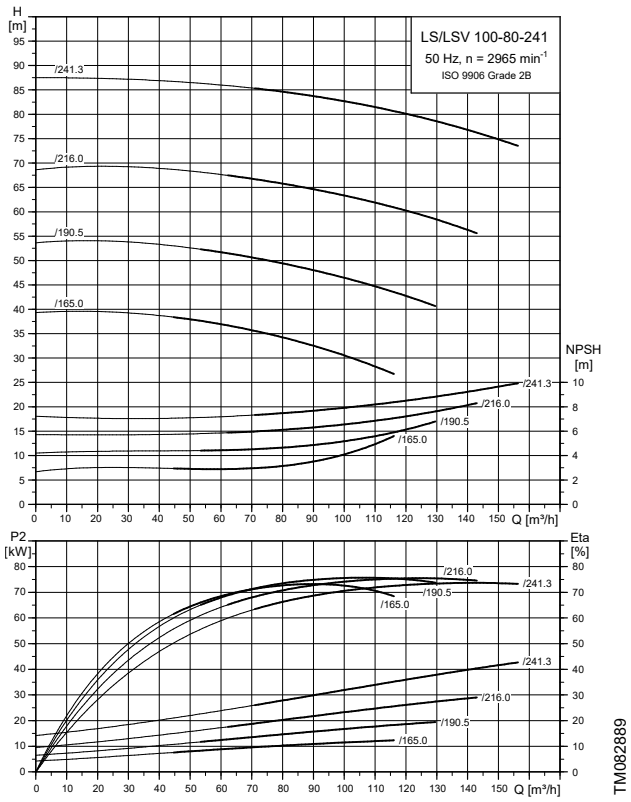
Pump type	Pump type	Pump type	Pump type	Pump type
2-pole	*LS/LSV 350-250-498*	**6-pole**	*LS/LSV 450-350-470*	**8-pole**
LS/LSV 65-50-241	*LS/LSV 350-300-352*	*LS/LSV 150-125-381*	*LS/LSV 450-350-505*	*LS/LSV 500-400-458*
LS/LSV 100-80-241	*LS/LSV 350-250-630*	*LS/LSV 200-150-305*	*LS/LSV 500-300-490*	*LS/LSV 500-400-530*
LS/LSV 125-100-279	*LS/LSV 350-300-372*	*LS/LSV 200-150-325*	*LS/LSV 500-300-680*	*LS/LSV 600-500-498*
LS/LSV 125-100-305	*LS/LSV 400-300-400*	*LS/LSV 200-150-381*	*LS/LSV 500-350-608*	*LS/LSV 600-500-610B*
4-pole	*LS/LSV 400-350-335*	*LS/LSV 200-150-483*	*LS/LSV 500-350-702*	*LS/LSV 700-500-667*
LS/LSV 65-50-241	*LS/LSV 400-350-345*	*LS/LSV 200-150-508*	*LS/LSV 500-400-423*	*LS/LSV 700-500-725*
LS/LSV 65-50-330	*LS/LSV 450-350-397*	*LS/LSV 250-150-455*	*LS/LSV 500-400-458*	*LS/LSV 700-500-585*
LS/LSV 100-80-241	*LS/LSV 450-350-470*	*LS/LSV 250-200-295*	*LS/LSV 500-400-465*	*LS 700-500-670*
LS/LSV 100-80-356	*LS/LSV 450-350-505*	*LS/LSV 250-200-305*	*LS/LSV 500-400-498*	*LS 700-500-730*
LS/LSV 125-100-279	*LS/LSV 500-300-490*	*LS/LSV 250-200-360*	*LS/LSV 500-400-530*	*LS/LSV 800-600-667*
LS/LSV 125-100-305	*LS/LSV 500-300-508*	*LS/LSV 250-200-381*	*LS/LSV 600-400-722*	*LS/LSV 800-600-683*
LS/LSV 125-100-375	*LS/LSV 500-300-680*	*LS/LSV 300-200-450*	*LS 600-450-625*	*LS/LSV 1000-700-770*
LS/LSV 125-100-381	*LS/LSV 500-300-710*	*LS/LSV 300-200-460*	*LS/LSV 600-500-498*	*LS/LSV 1000-700-815*
LS/LSV 200-150-305	*LS/LSV 500-400-435*	*LS/LSV 300-200-489*	*LS/LSV 600-500-610B*	*LS/LSV 600-500-610D*
LS/LSV 200-150-325	*LS/LSV 500-400-458*	*LS/LSV 300-250-305*	*LS/LSV 600-500-610D*	**10-pole**
LS/LSV 200-150-381	*LS/LSV 500-400-465*	*LS/LSV 300-250-320*	*LS/LSV 700-450-950*	*LS/LSV 700-500-667*
LS/LSV 200-150-483	*LS/LSV 500-400-530*	*LS/LSV 300-250-335*	*LS/LSV 700-500-585*	*LS/LSV 700-500-725*
LS/LSV 200-150-508	*LS 600-450-625*	*LS/LSV 300-250-381*	*LS/LSV 700-500-667*	*LS/LSV 800-600-667*
LS/LSV 250-150-455	*LS/LSV 600-500-498*	*LS/LSV 350-250-415*	*LS 700-500-670*	*LS/LSV 800-600-683*
LS/LSV 250-200-295	*LS/LSV 125-100-370×2*	*LS/LSV 350-250-436*	*LS/LSV 700-500-725*	*LS/LSV 1000-700-770*
LS/LSV 250-200-305	*LS/LSV 150-125-415×2*	*LS/LSV 350-250-498*	*LS 700-500-730*	*LS/LSV 1000-700-815*
LS/LSV 250-200-360	*LS/LSV 200-125-475×2*	*LS/LSV 350-250-630*	*LS/LSV 700-450-1010*	
LS/LSV 250-200-381	*LS/LSV 250-200-575×2*	*LS/LSV 350-300-352*	*LS/LSV 800-600-667*	
LS/LSV 300-200-450	*LS/LSV 250-150-450*	*LS/LSV 350-300-372*	*LS/LSV 800-600-683*	
LS/LSV 300-200-460	*LS/LSV 250-200-548*	*LS/LSV 350-300-508*	*LS/LSV 125-100-370×2*	
LS/LSV 300-200-489	*LS/LSV 300-250-437*	*LS/LSV 400-300-400*	*LS/LSV 150-125-415×2*	
LS/LSV 300-250-305	*LS/LSV 350-300-370*	*LS/LSV 400-350-335*	*LS/LSV 200-150-475×2*	
LS/LSV 300-250-320	*LS/LSV 600-500-610B*	*LS/LSV 400-350-345*	*LS/LSV 250-200-575×2*	
LS/LSV 300-250-335	*LS/LSV 600-500-610D*	*LS/LSV 500-300-710*		
LS/LSV 300-250-381	*LS/LSV 350-300-425*	*LS/LSV 500-300-508*		
LS/LSV 350-250-415	*LS/LSV 500-400-423*	*LS/LSV 450-350-397*		
LS/LSV 350-250-436		*LS/LSV 500-400-435*		

2-pole

LS/LSV 65-50-241



LS/LSV 100-80-241



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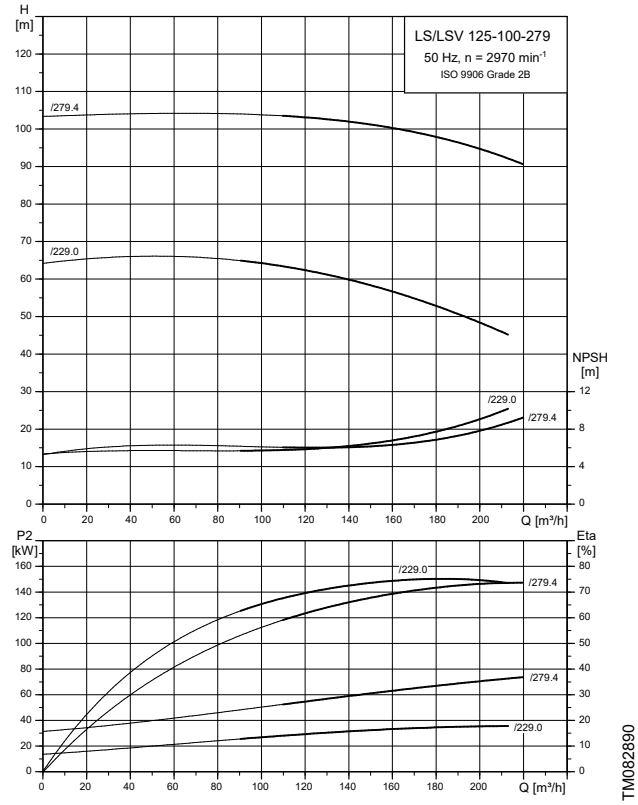
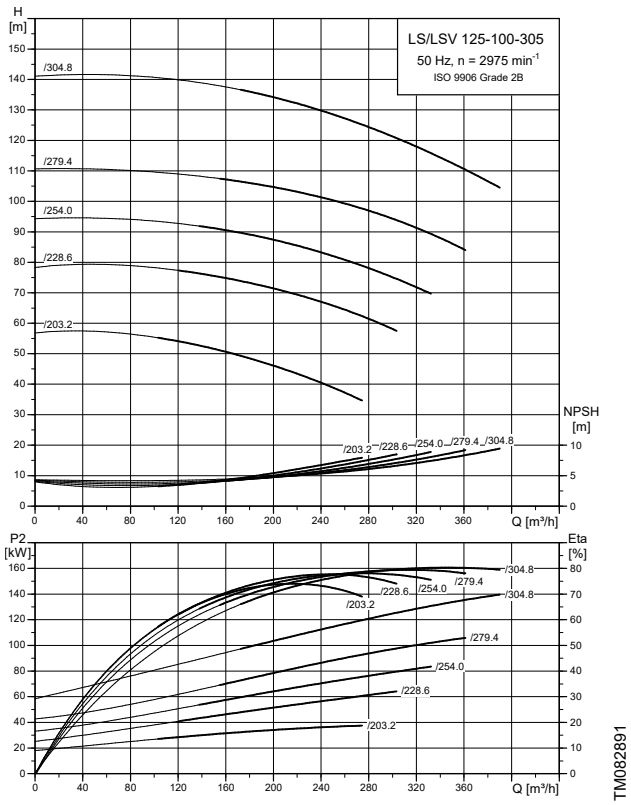
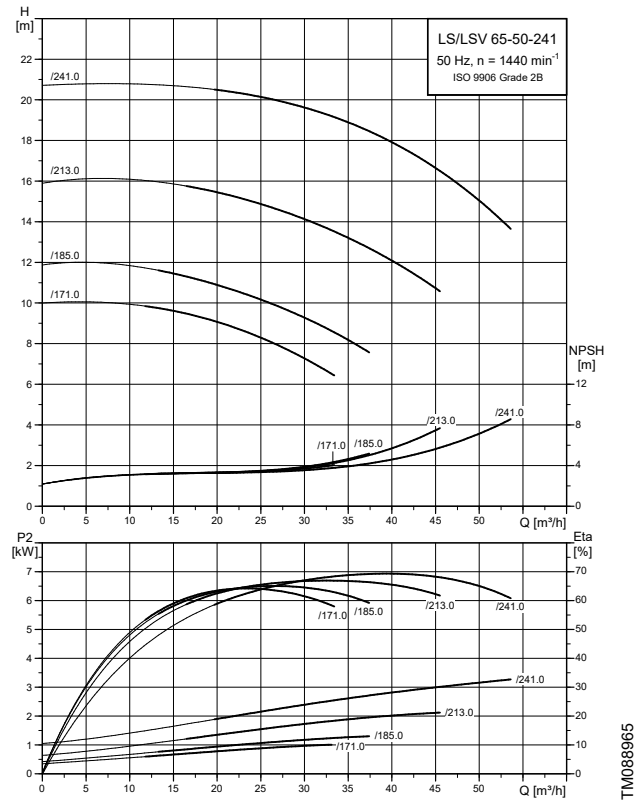


LS/LSV 125-100-305



4-pole

LS/LSV 65-50-241



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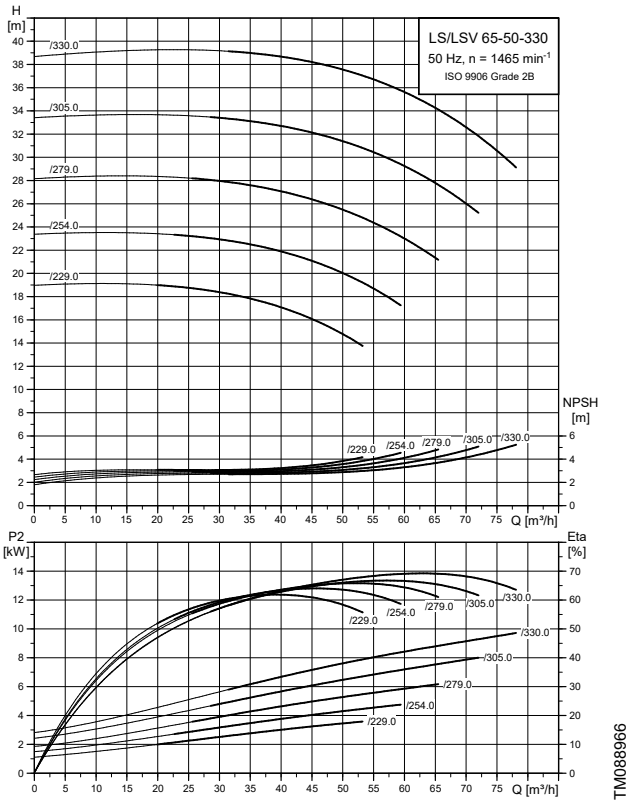
LS/LSV 65-50-330



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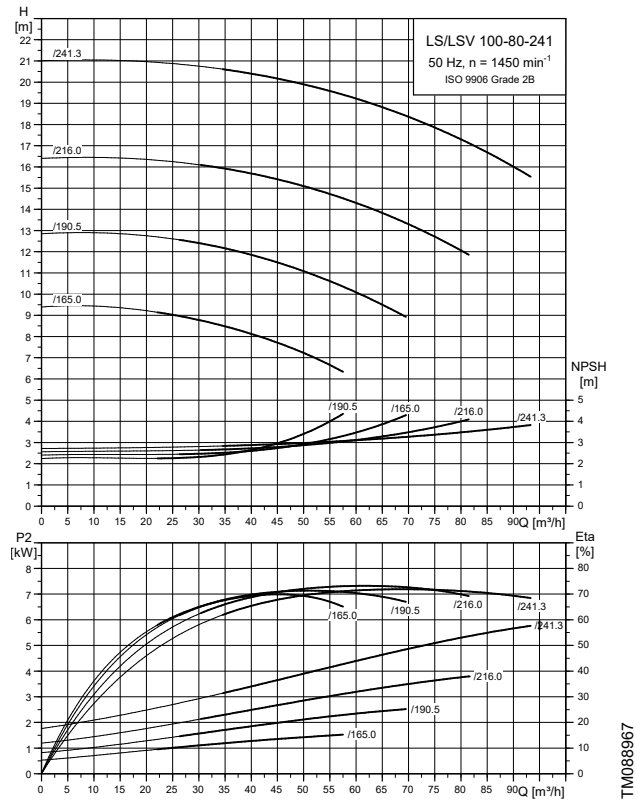
LS/LSV 100-80-241



TM088967

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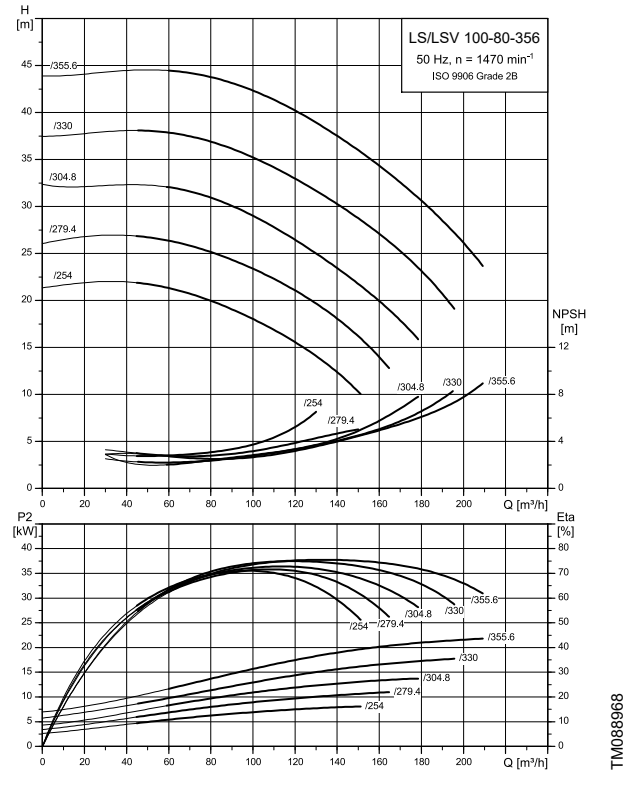
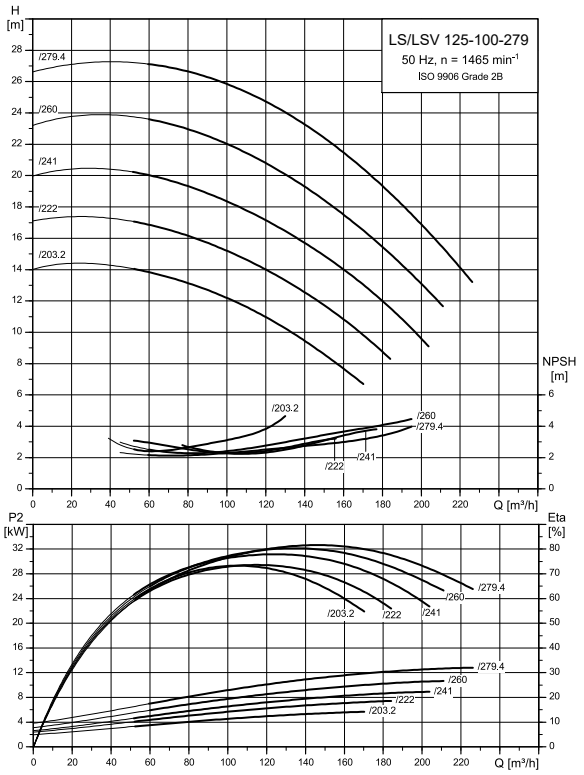
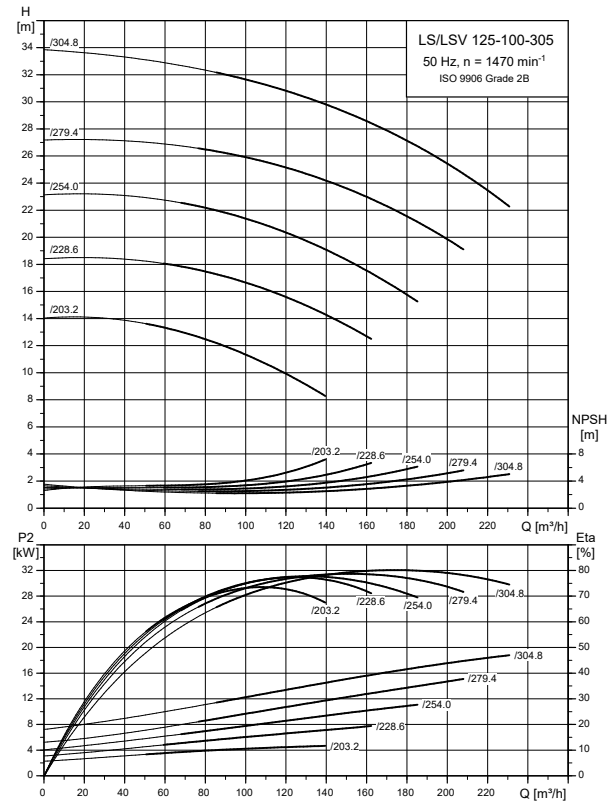


TM088968

LS/LSV 125-100-279



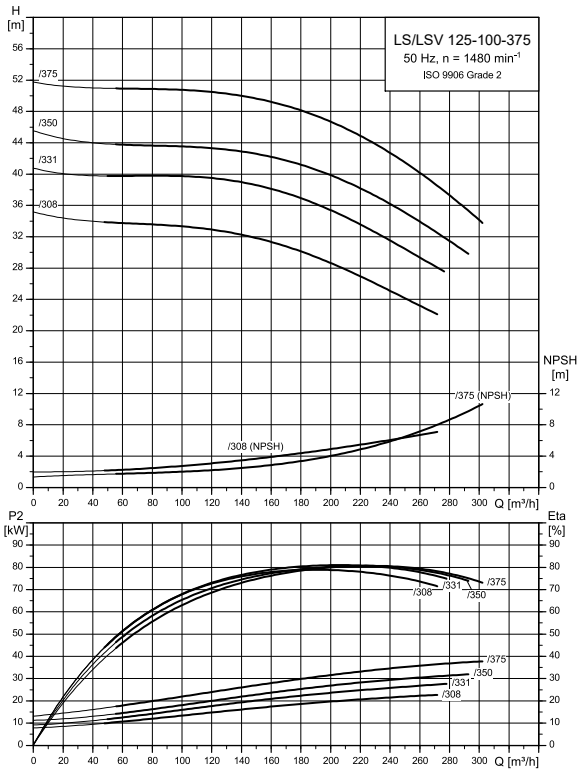
LS/LSV 125-100-305



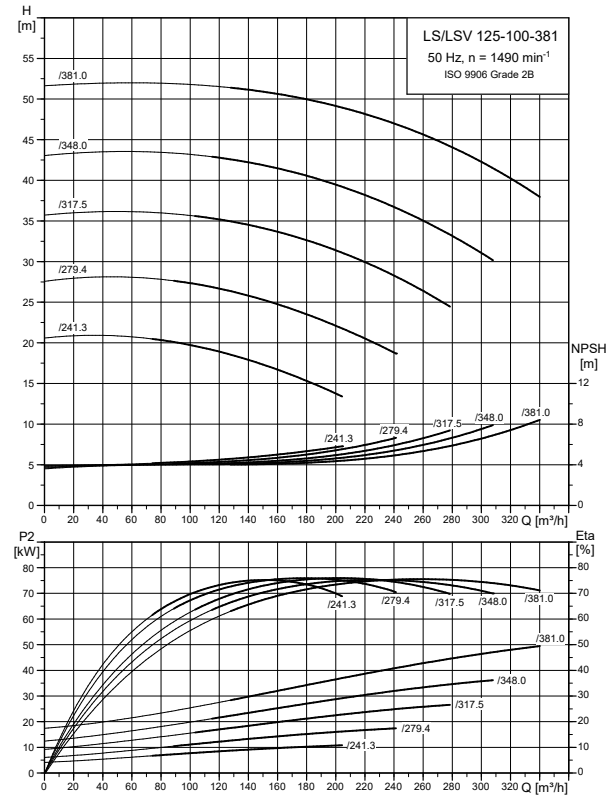
TM088969

TM088970

LS/LSV 125-100-375



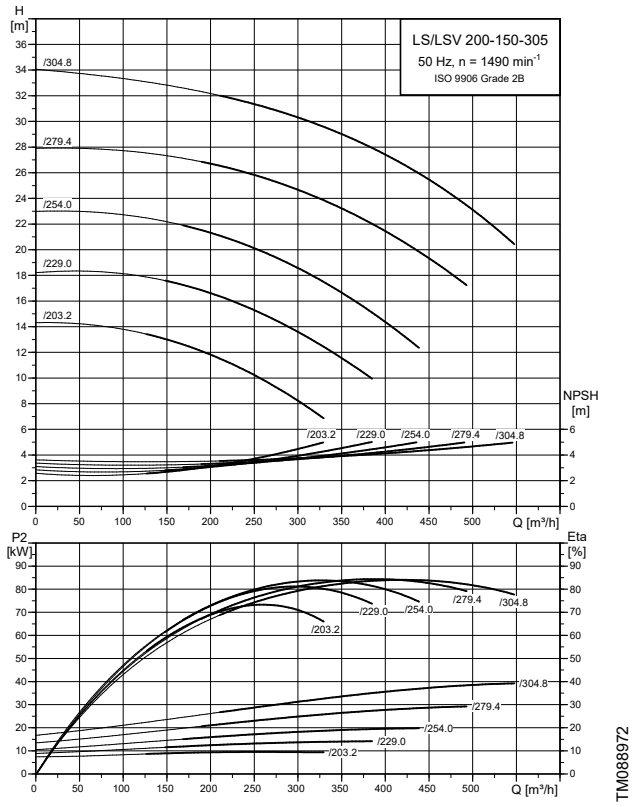
LS/LSV 125-100-381



TM089706

TM088971

LS/LSV 200-150-305



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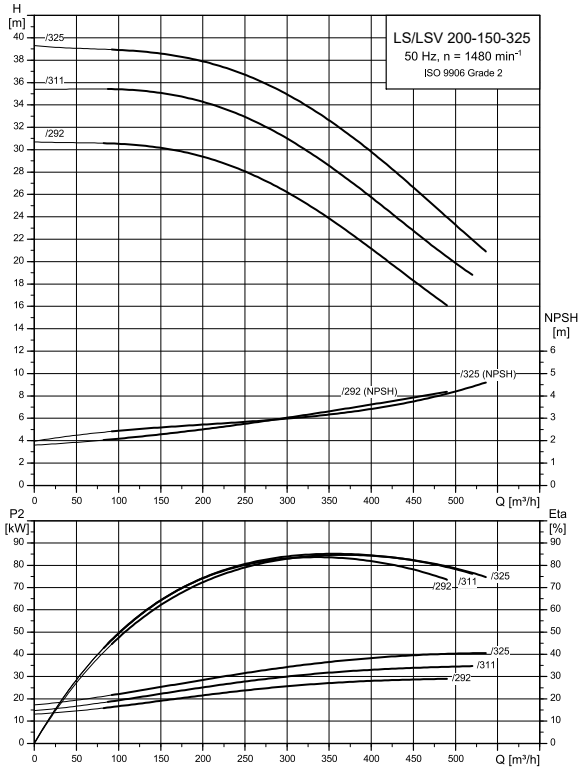
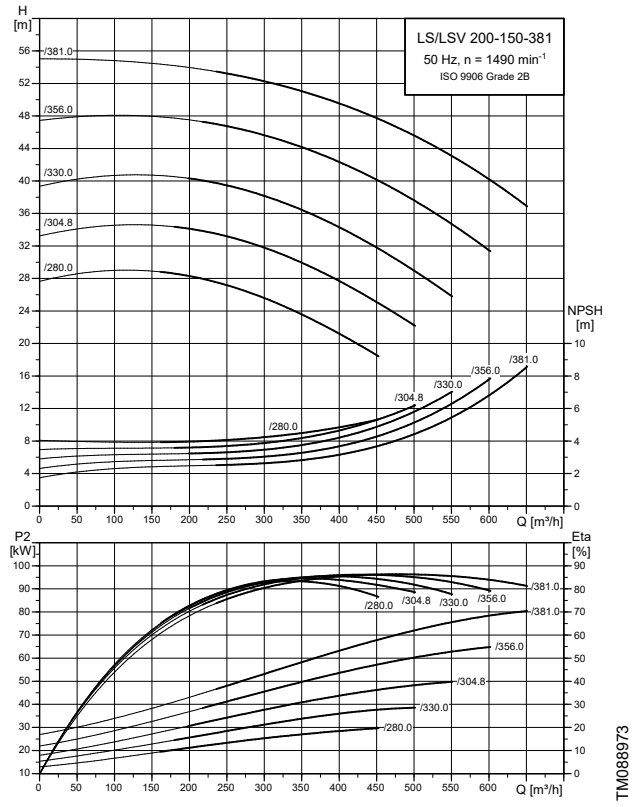
LS/LSV 200-150-325



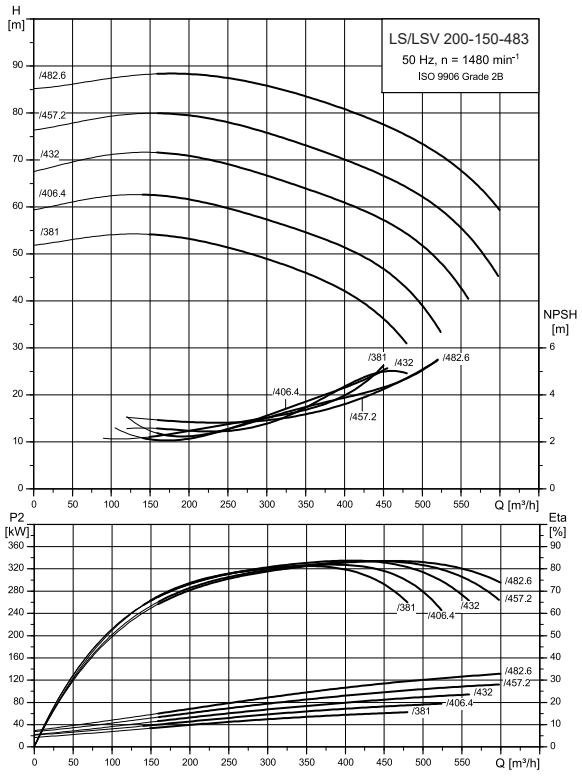
TM089705

LS/LSV 200-150-381



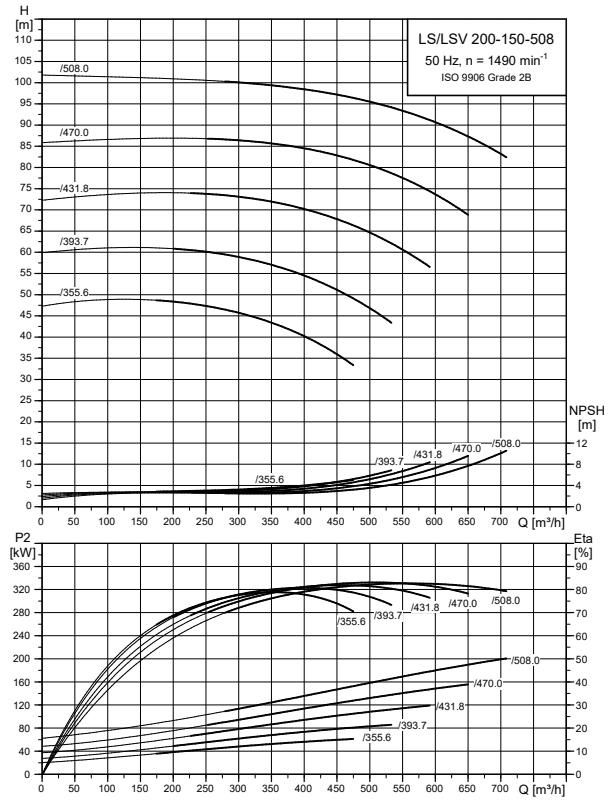
TM088973

LS/LSV 200-150-483



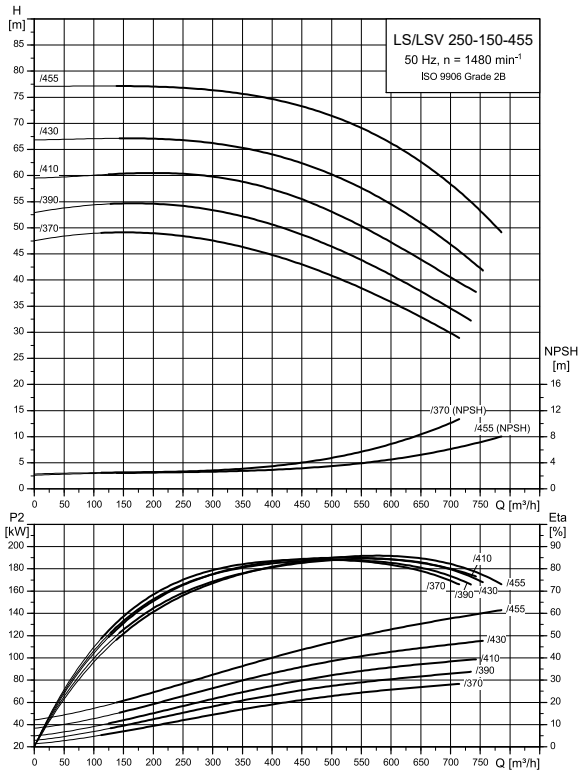
TM088974

LS/LSV 200-150-508



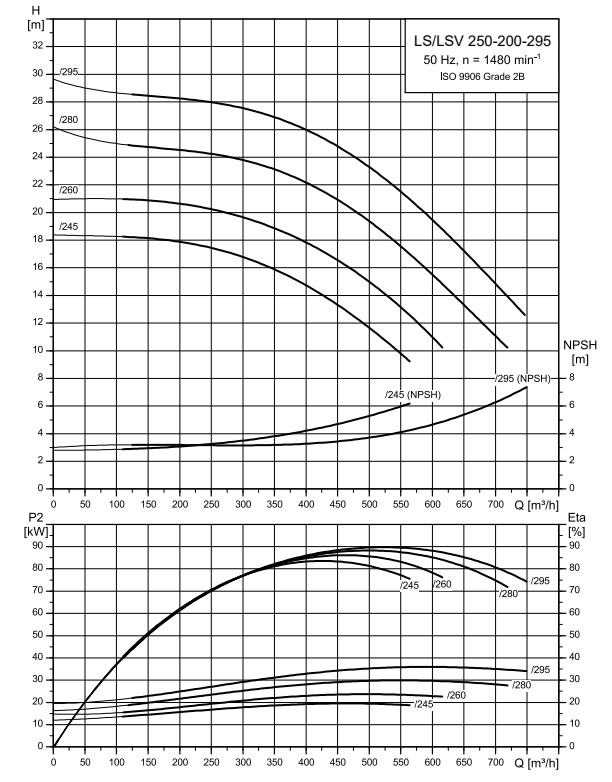
TM088975

LS/LSV 250-150-455



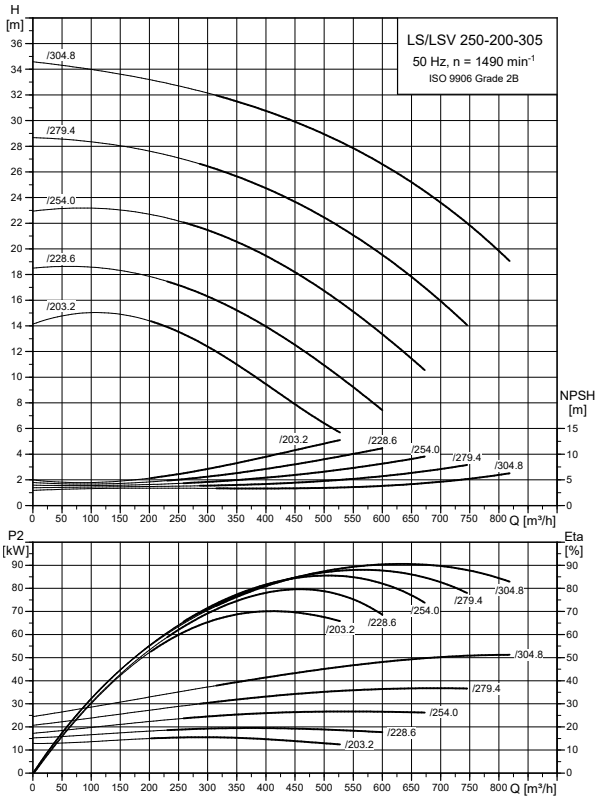
TM089304

LS/LSV 250-200-295



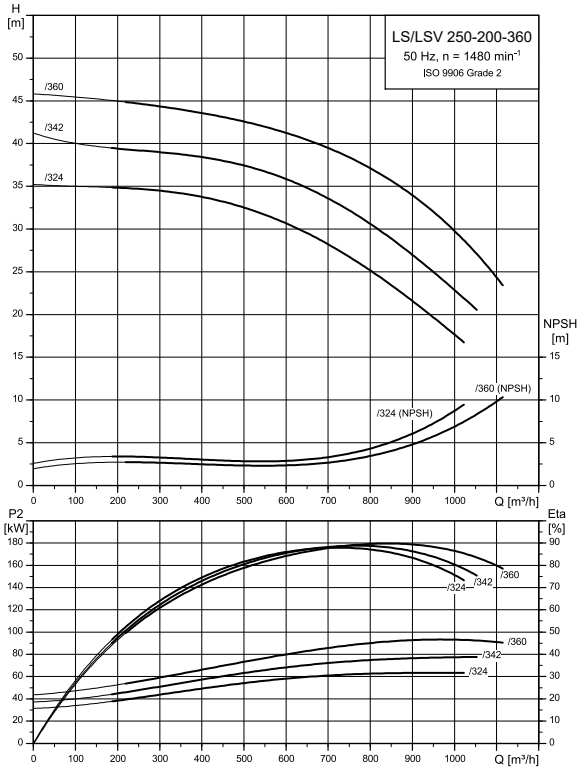
TM089708

LS/LSV 250-200-305



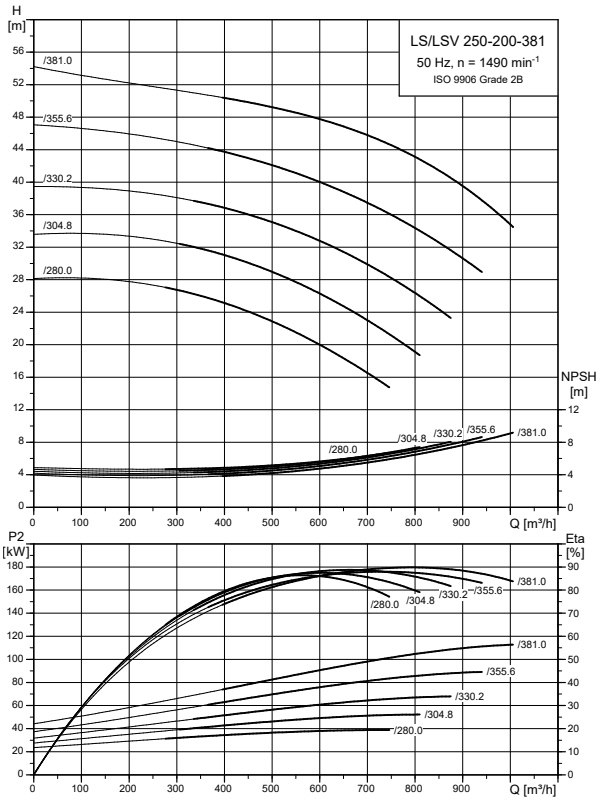
TM088976

LS/LSV 250-200-360



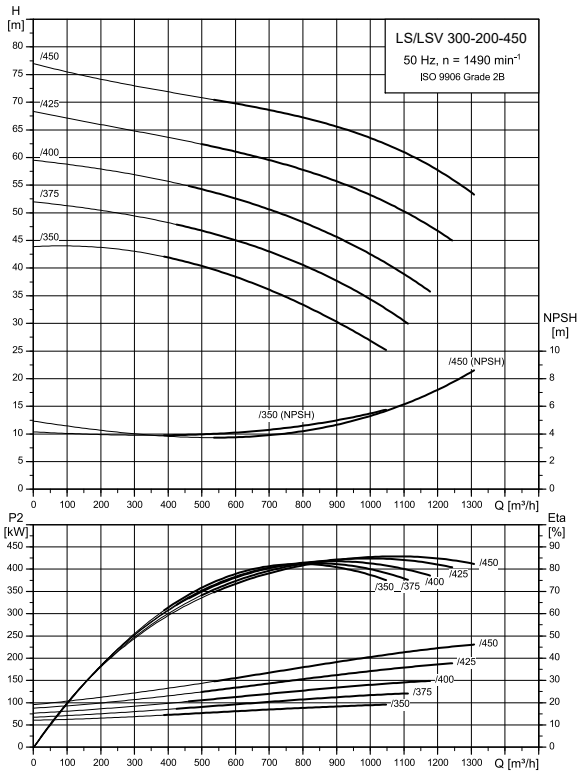
TM089090

LS/LSV 250-200-381



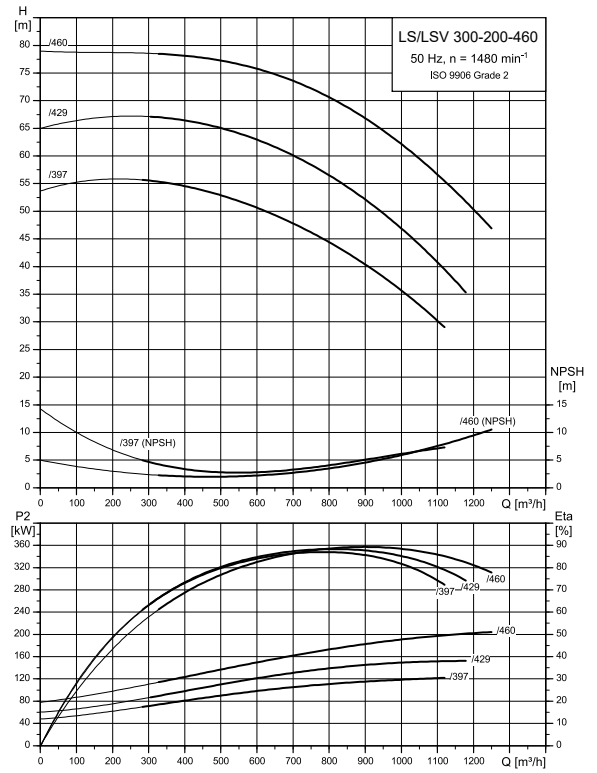
TM088977

LS/LSV 300-200-450



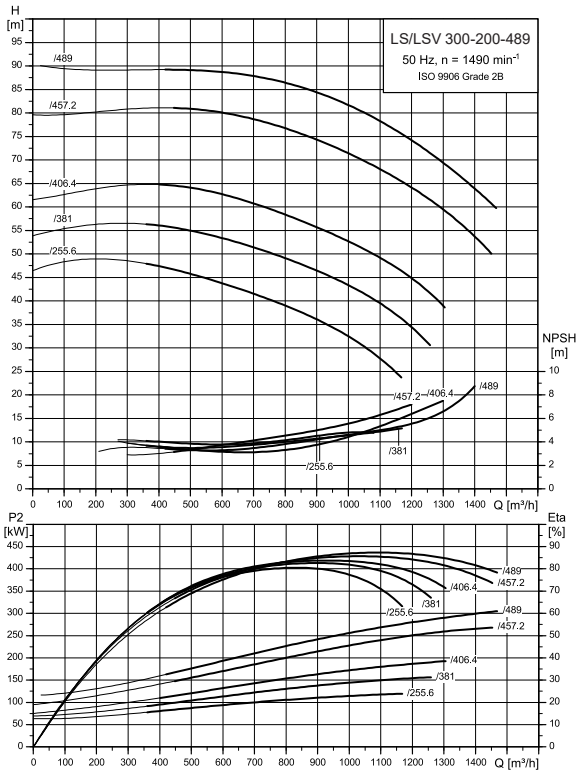
TM089158

LS/LSV 300-200-460

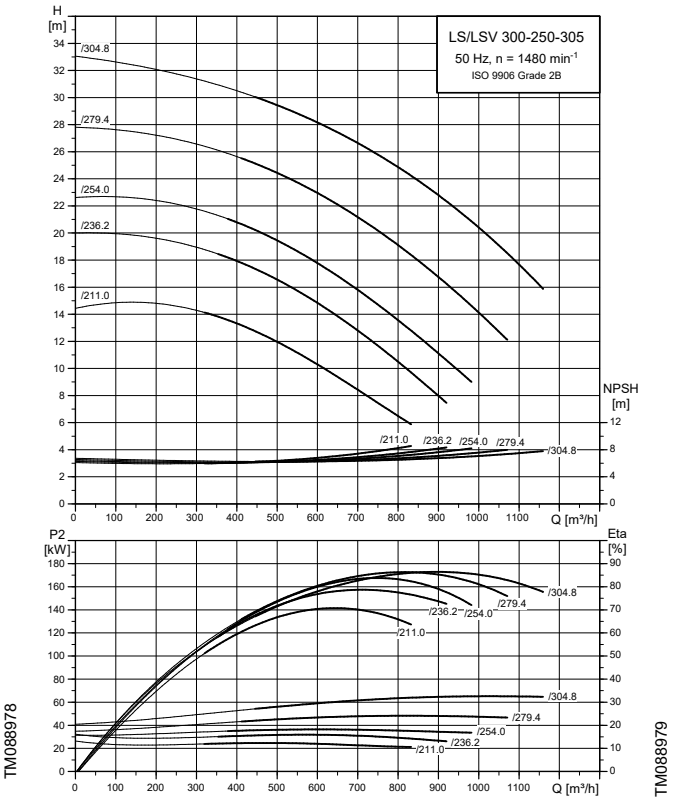


TM089091

LS/LSV 300-200-489



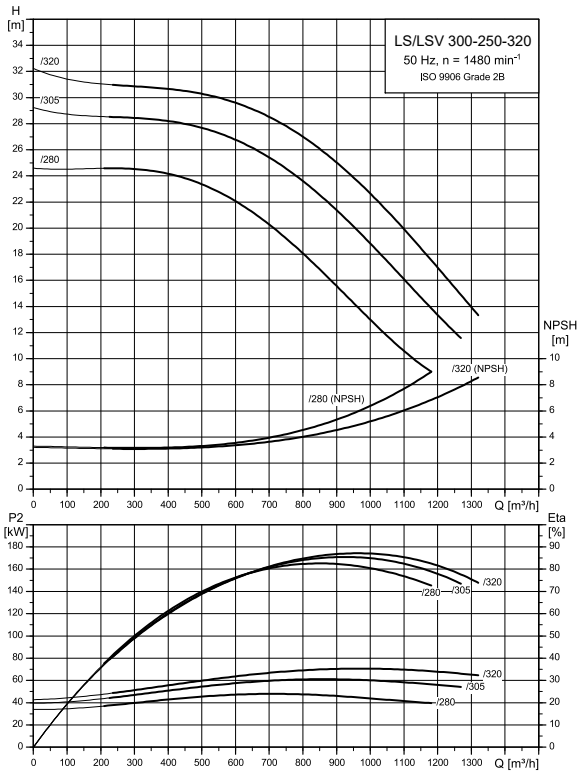
LS/LSV 300-250-305



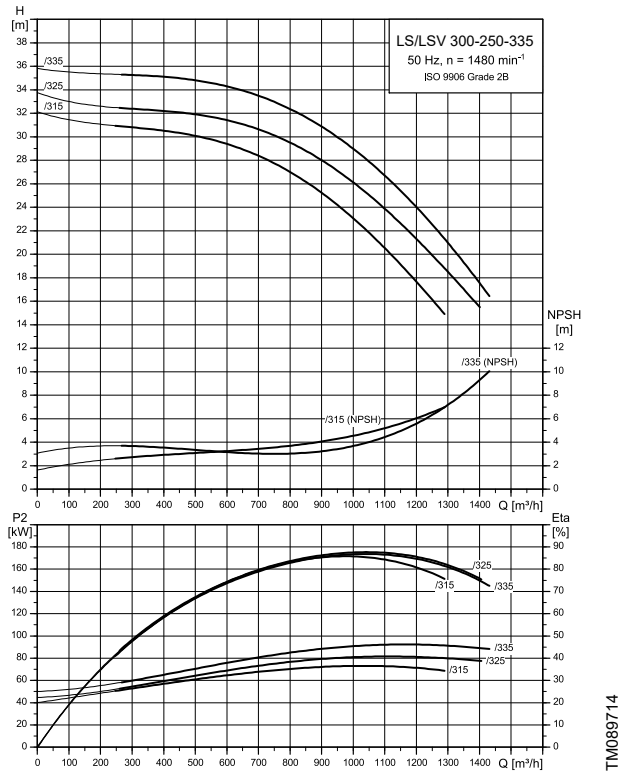
TM088978

TM088979

LS/LSV 300-250-320



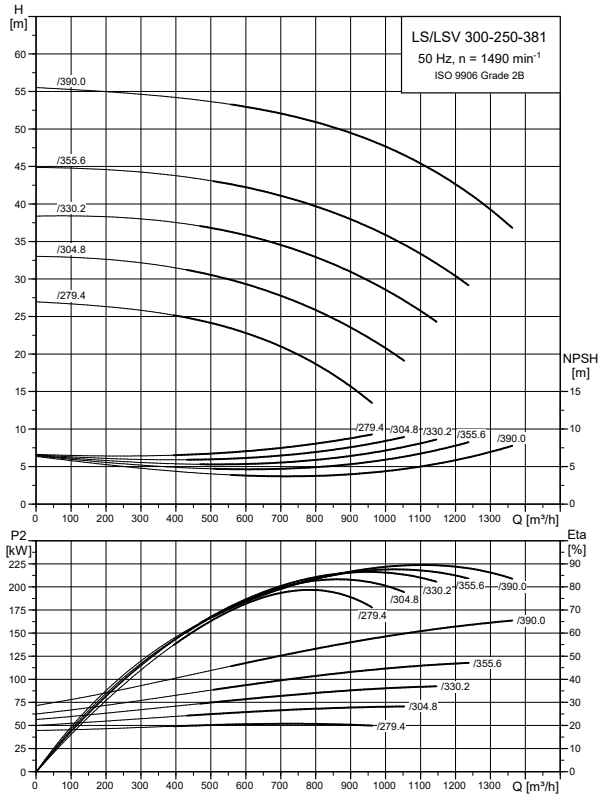
LS/LSV 300-250-335



TM089710

TM089714

LS/LSV 300-250-381



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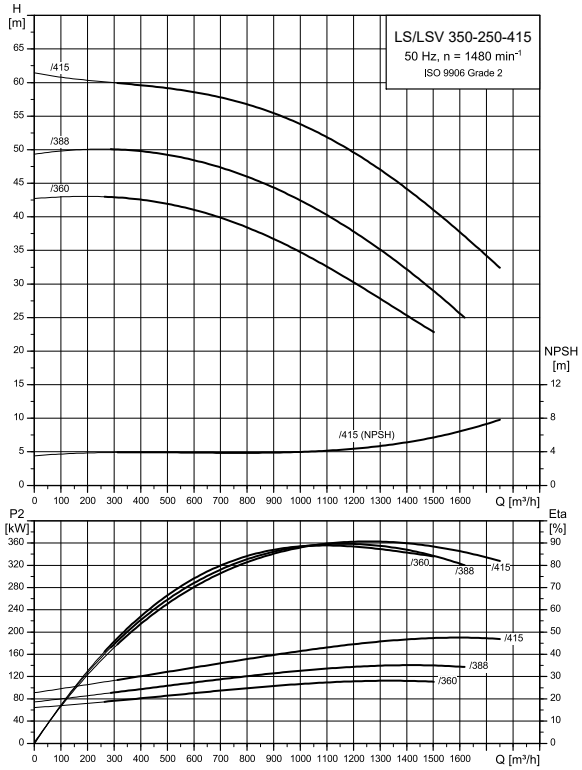
LS/LSV 350-250-415



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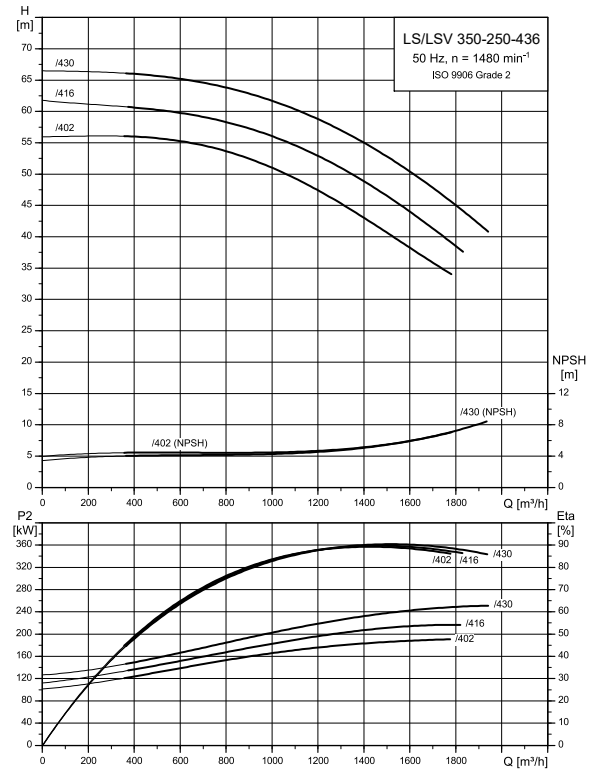
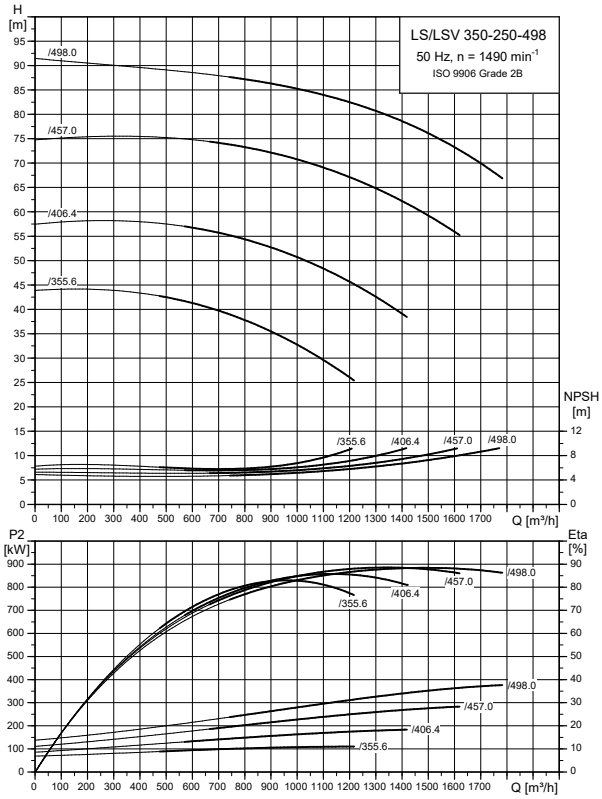
LS/LSV 350-250-436



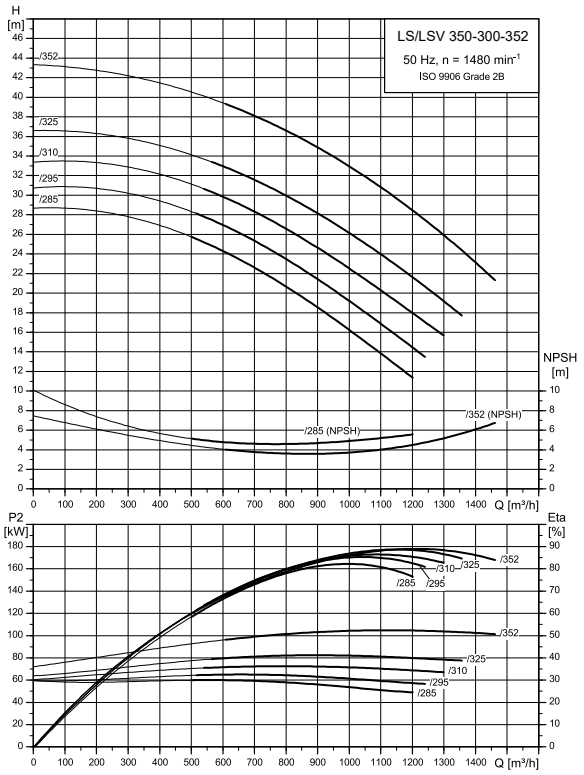
TM089736

LS/LSV 350-250-498



TM088981

LS/LSV 350-300-352



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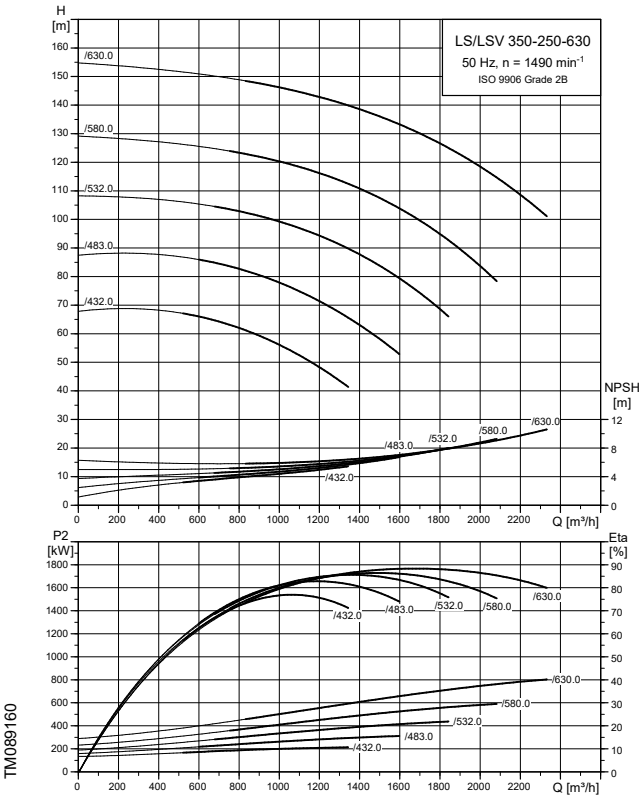
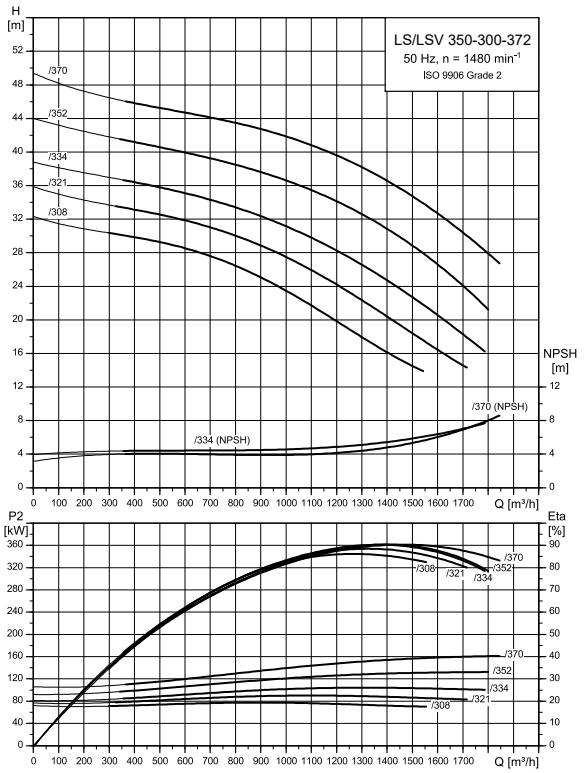


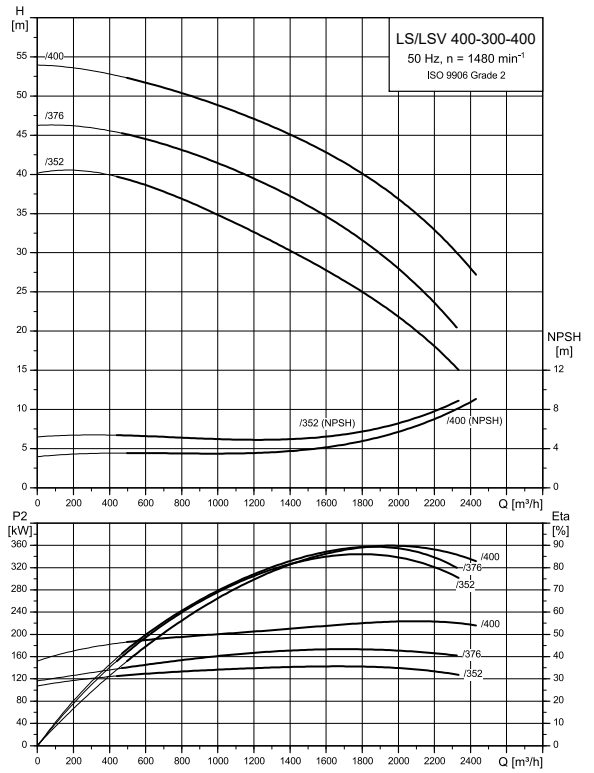
TM089160

TM088982

LS/LSV 350-300-372



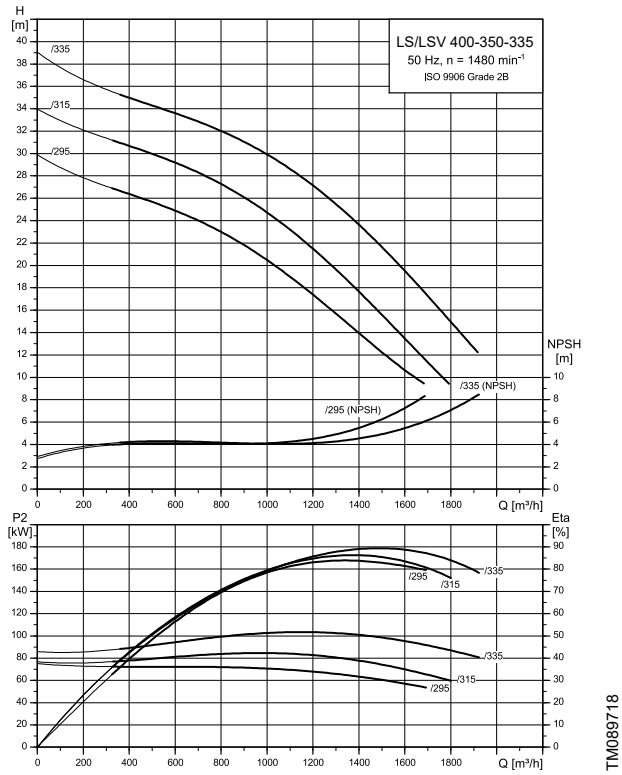
LS/LSV 400-300-400



TM089716

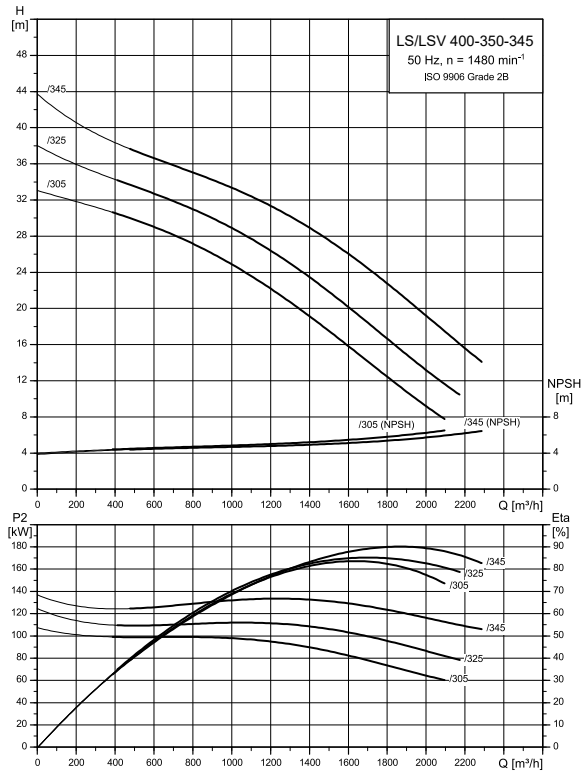
TM089089

LS/LSV 400-350-335



TM089718

LS/LSV 400-350-345



TM089720

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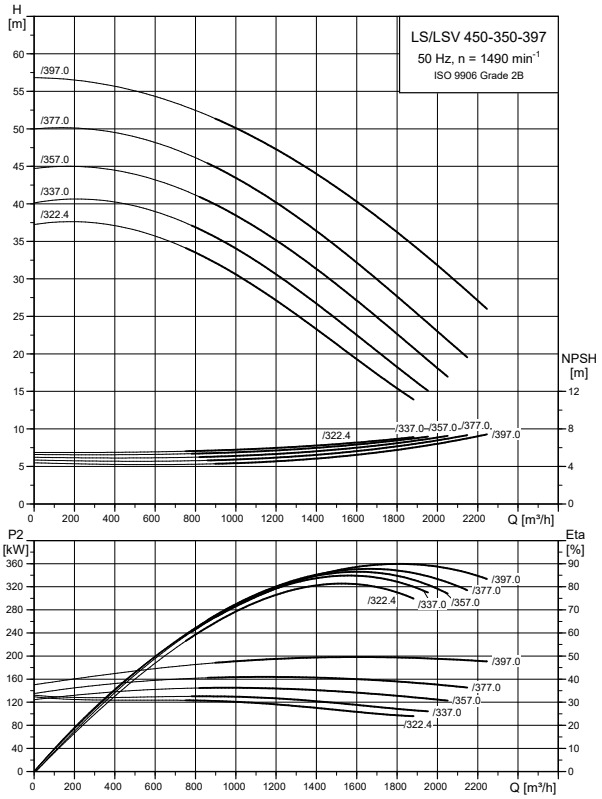

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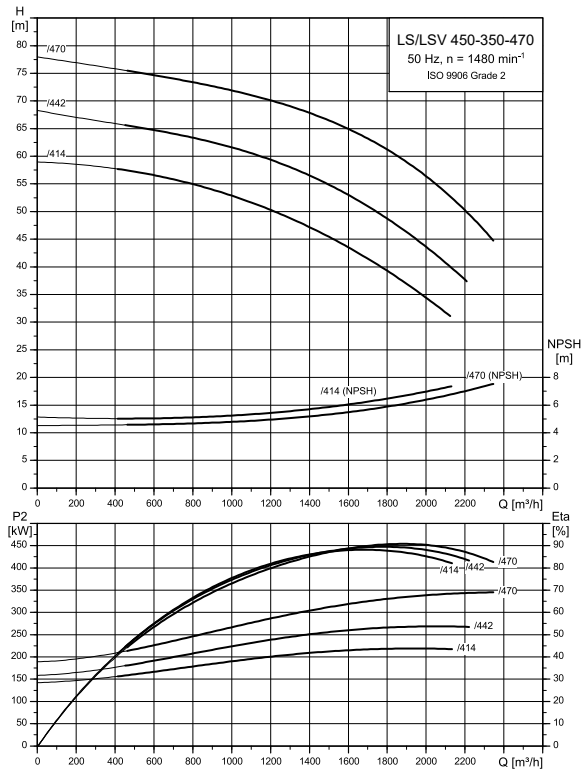
LS/LSV 450-350-470



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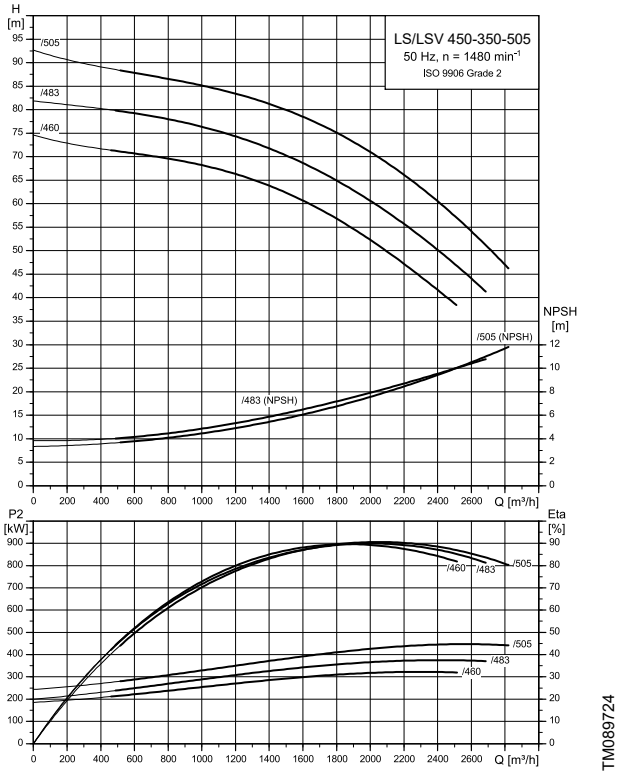
LS/LSV 450-350-505



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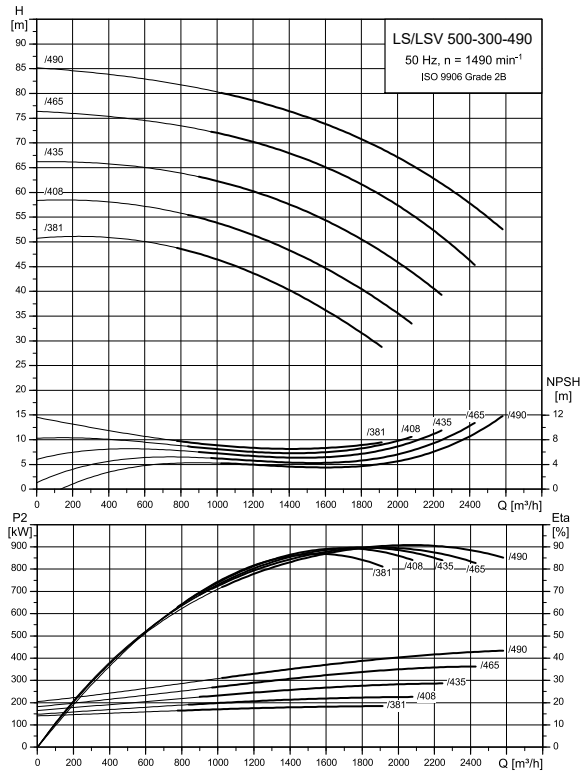

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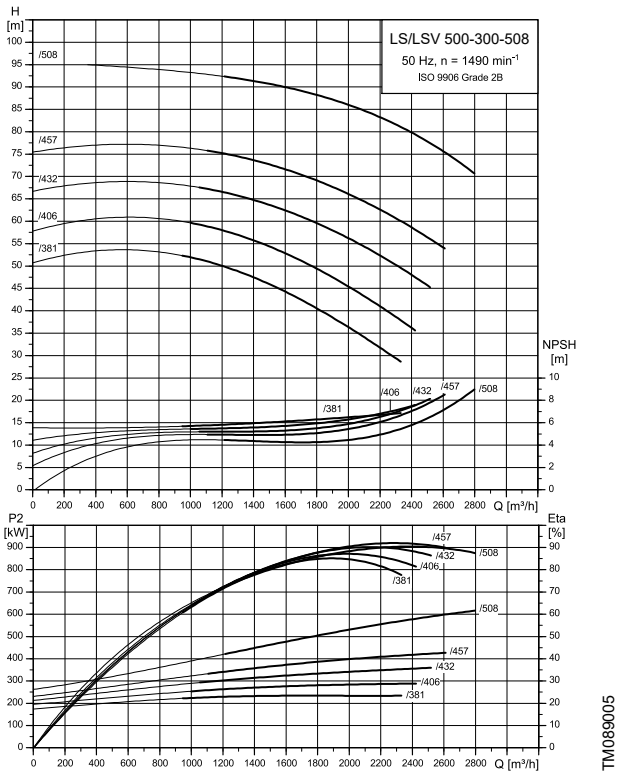
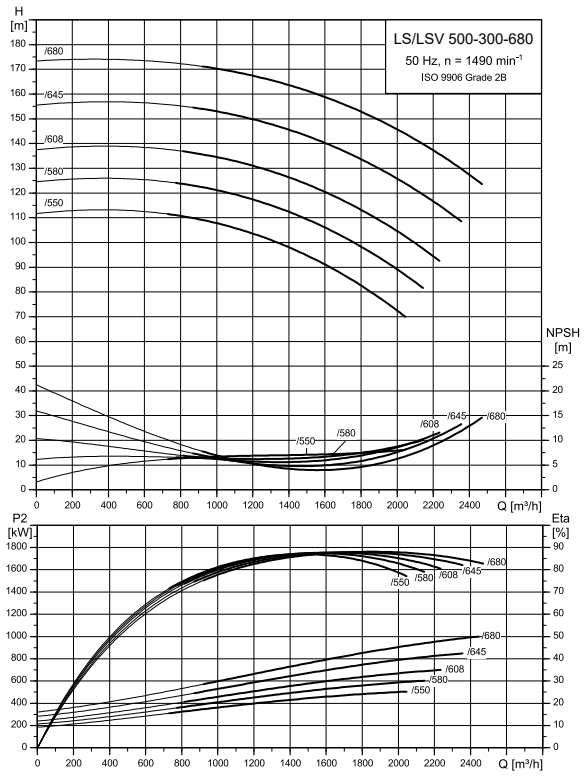
LS/LSV 500-300-508



TM089005

LS/LSV 500-300-680



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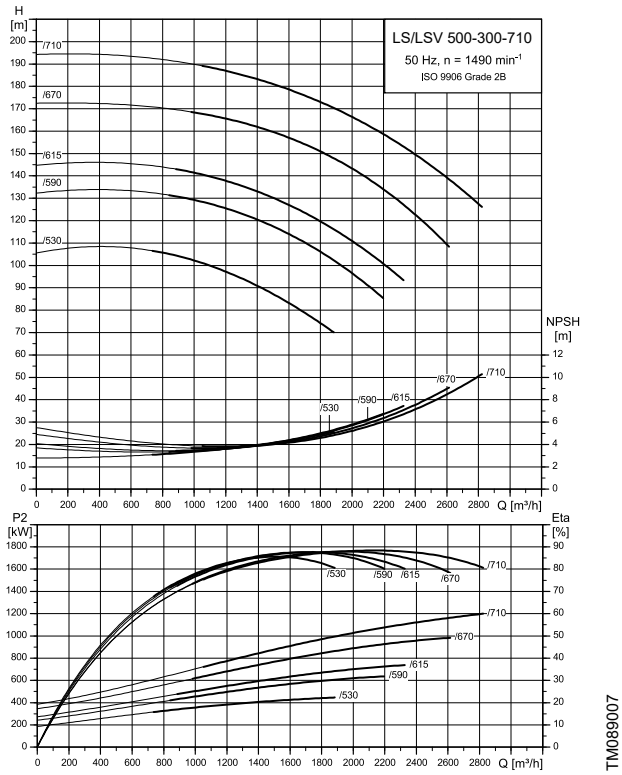
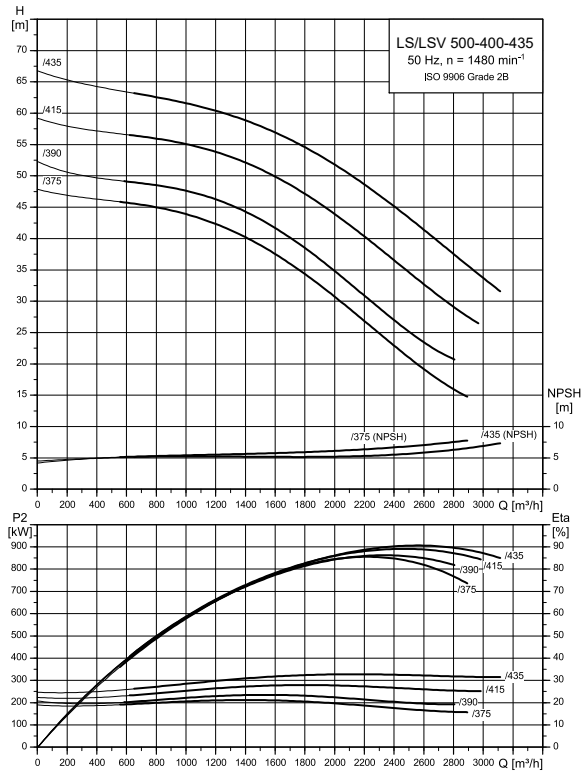


TM089007

LS/LSV 500-400-435



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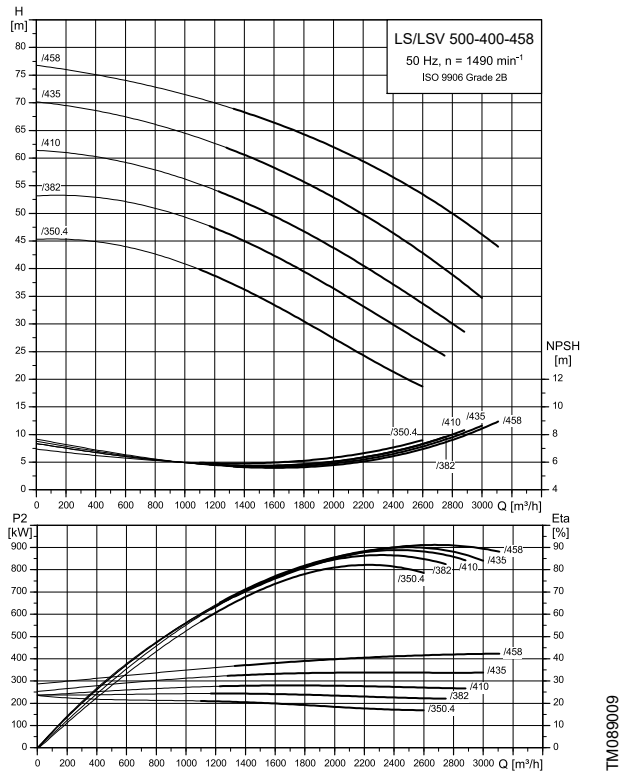
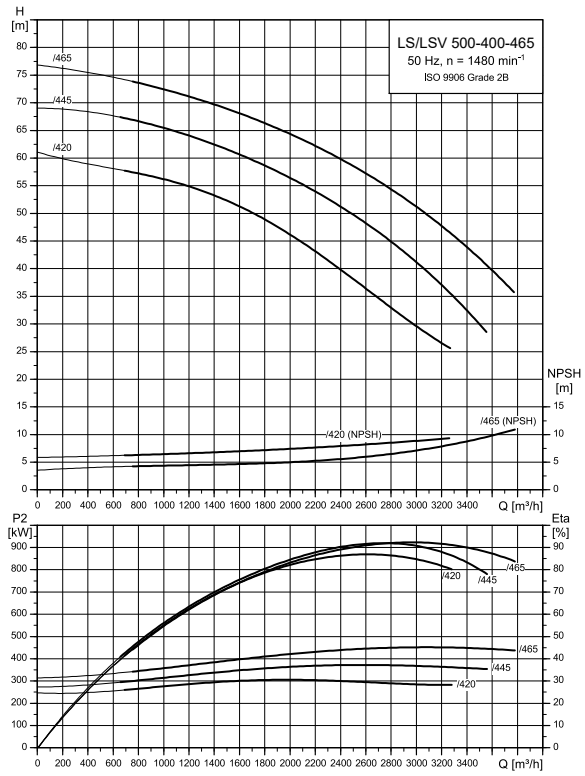
LS/LSV 500-400-458



TM089009

LS/LSV 500-400-465



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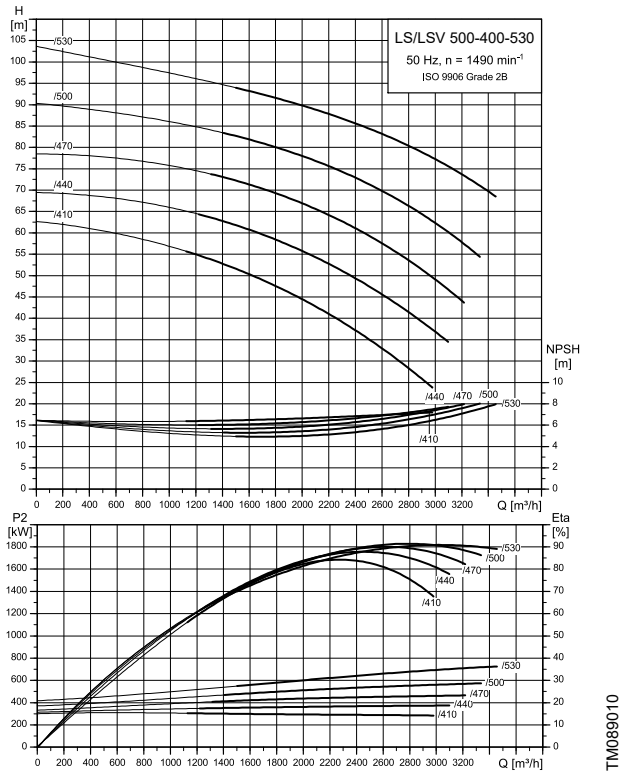
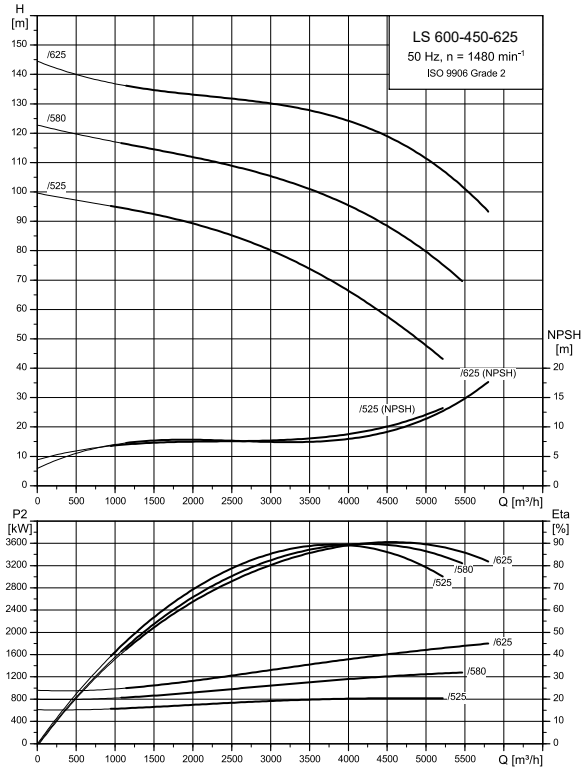
LS/LSV 500-400-530



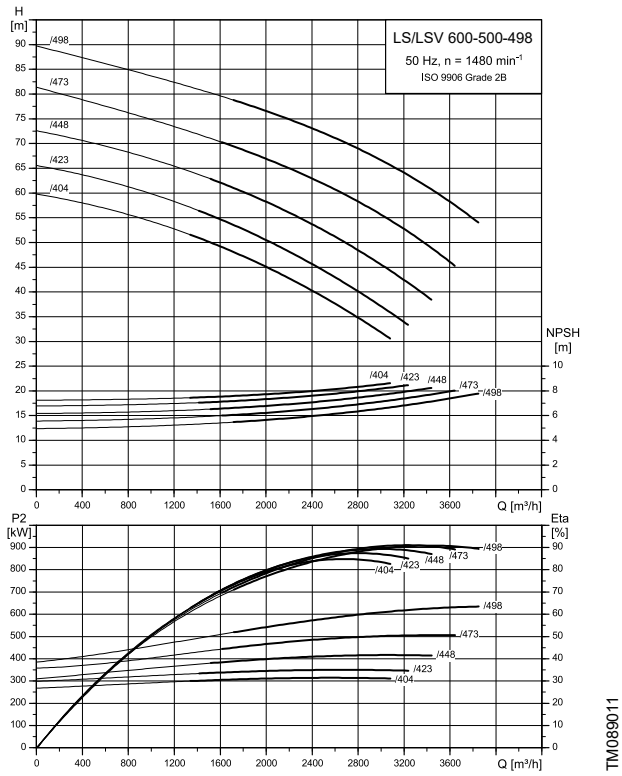
TM089010

LS 600-450-625



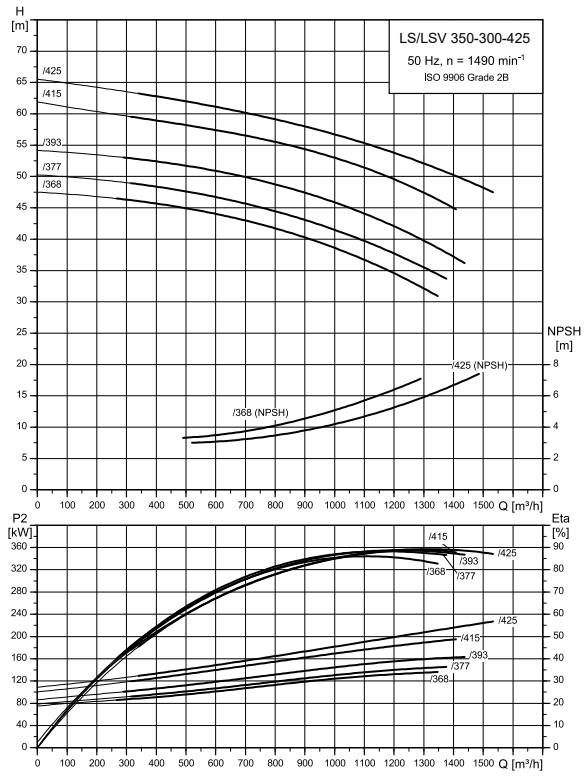
TM089730

LS/LSV 600-500-498



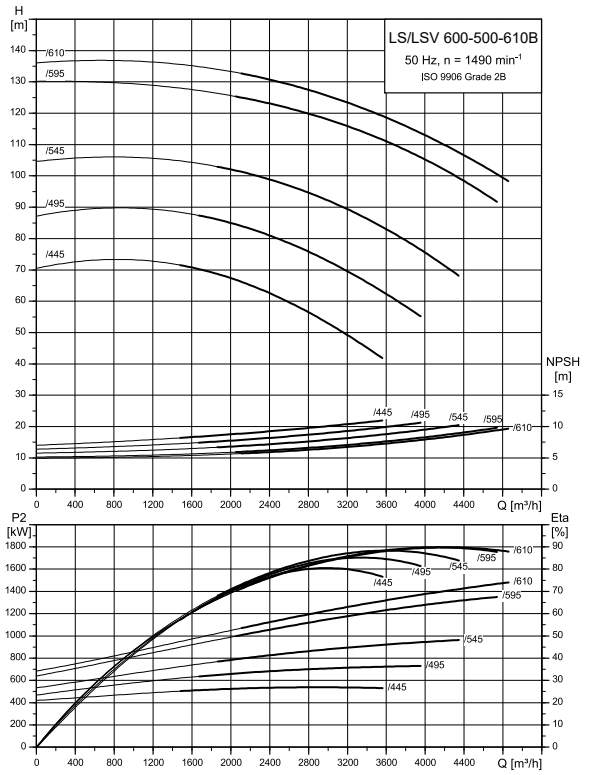
TM089011

LS/LSV 350-300-425



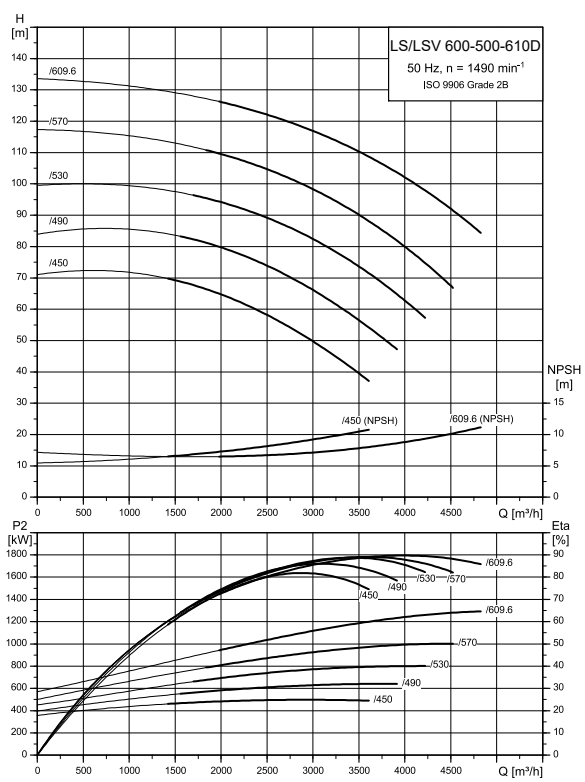
TM089162

LS/LSV 600-500-610B



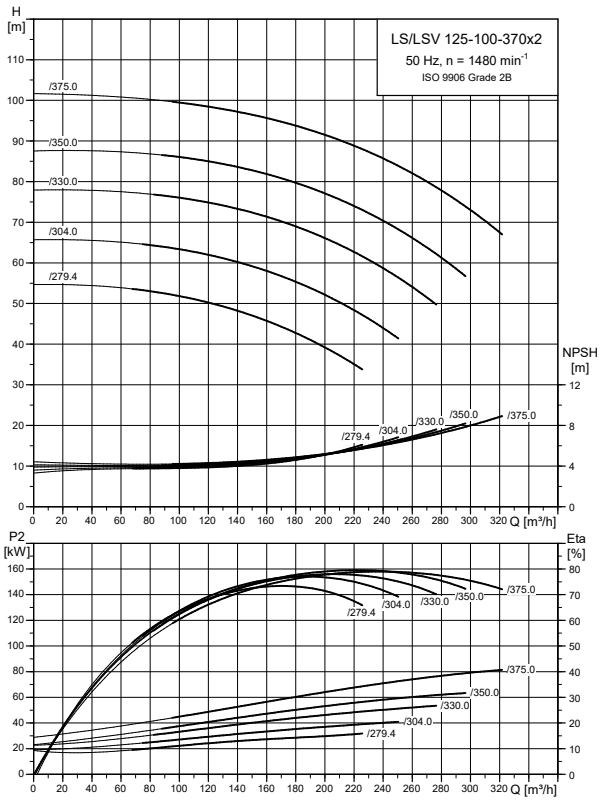
TM089012

LS/LSV 600-500-610D



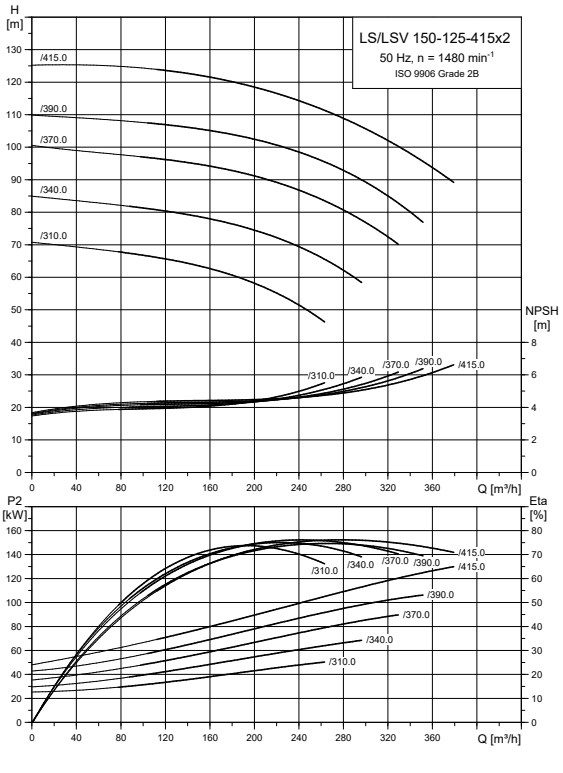
TM089293

LS/LSV 125-100-370×2



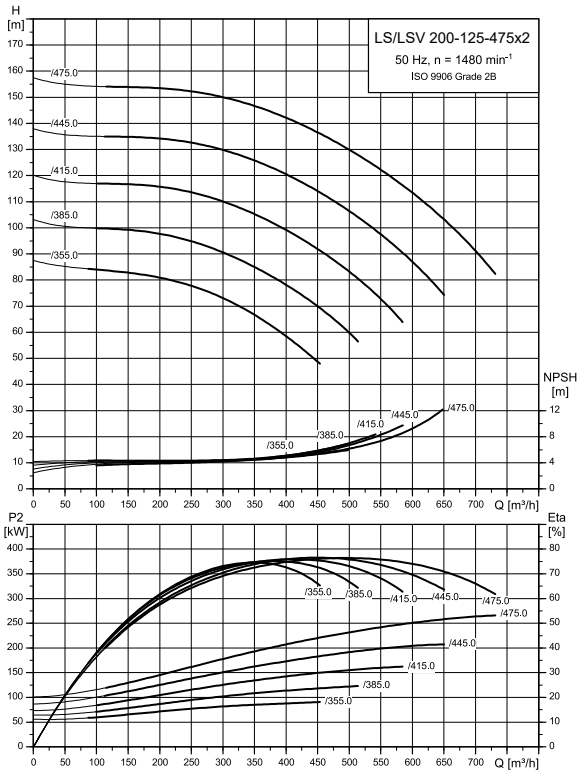
TM089013

LS/LSV 150-125-415×2

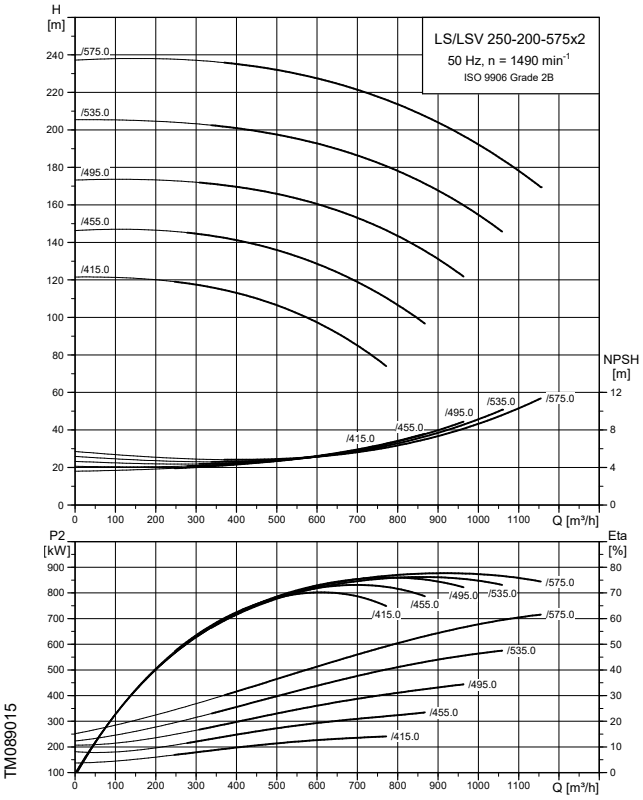


TM089014

LS/LSV 200-125-475×2



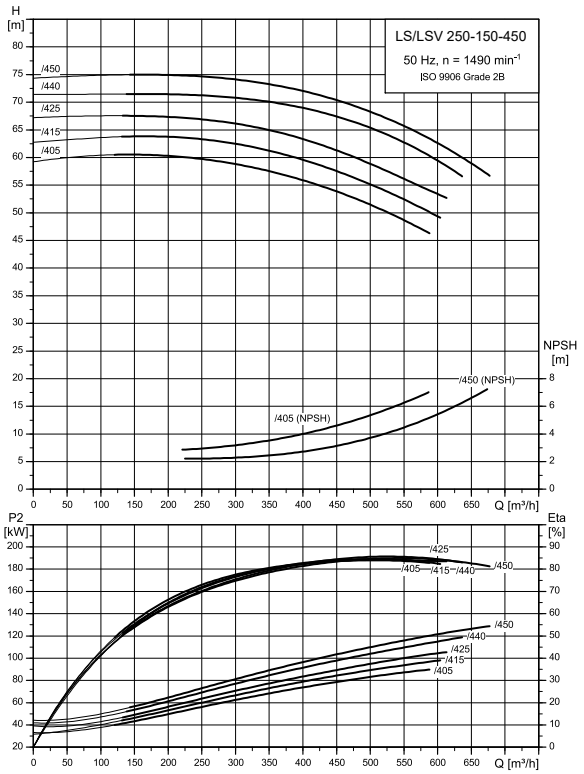
LS/LSV 250-200-575×2



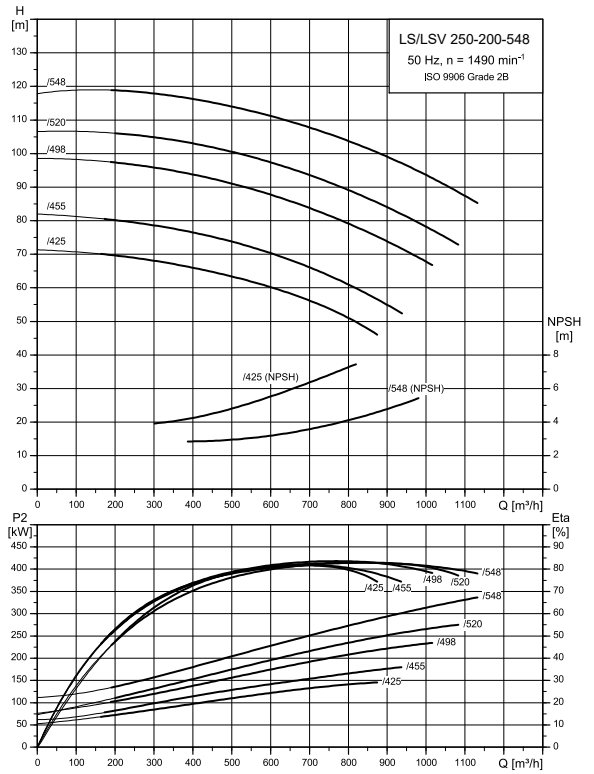
TM089015

TM089016

LS/LSV 250-150-450



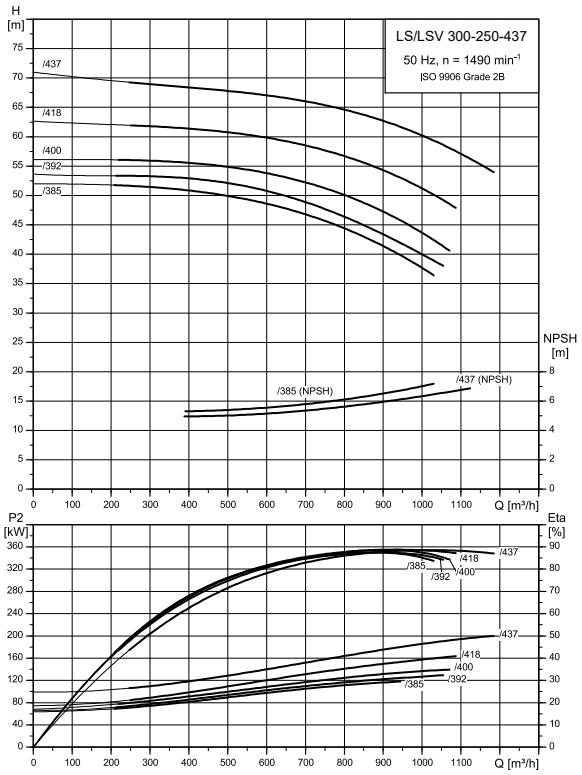
LS/LSV 250-200-548



TM089156

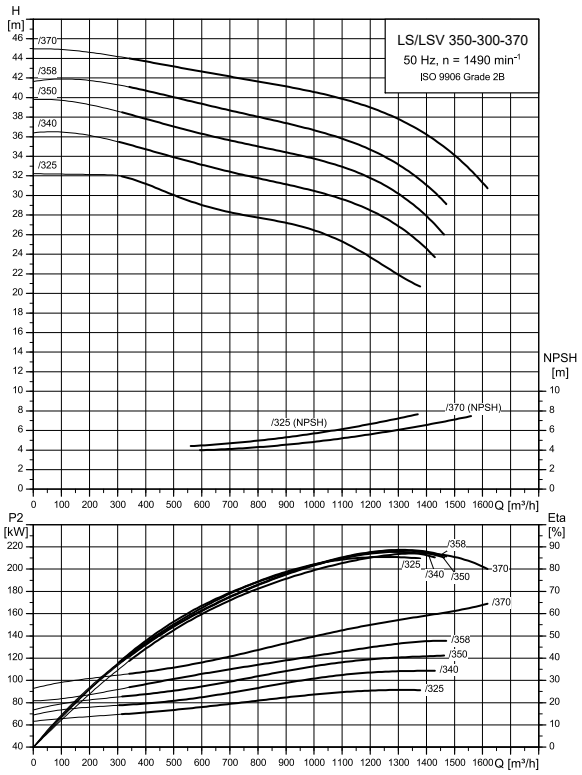
TM089157

LS/LSV 300-250-437



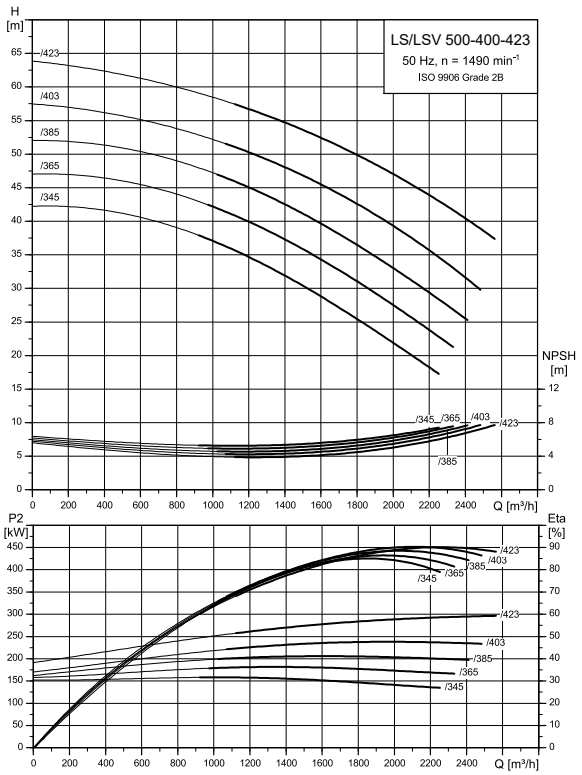
TM089159

LS/LSV 350-300-370



TM089161

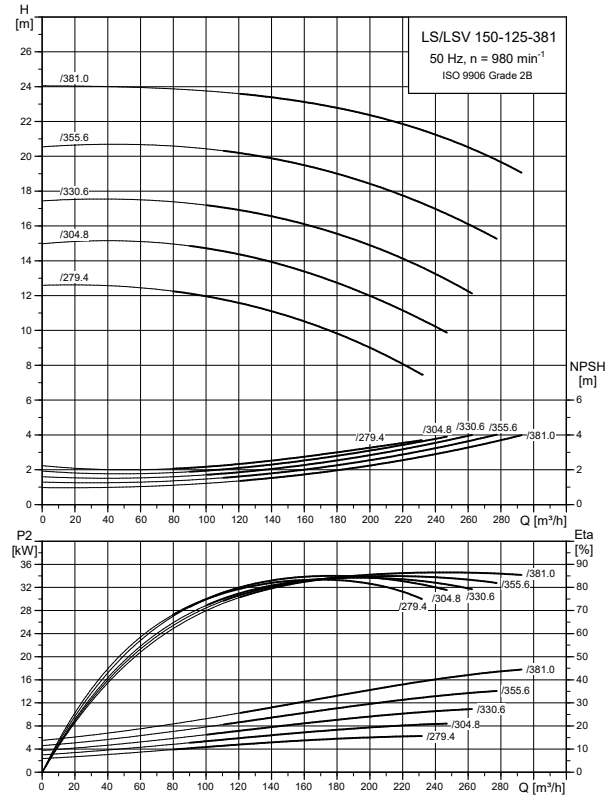
LS/LSV 500-400-423



TM089008

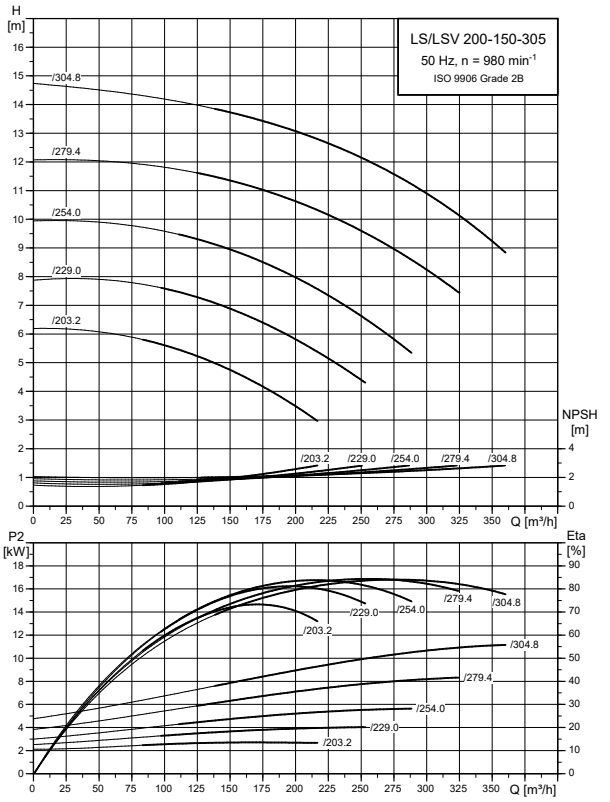
6-pole

LS/LSV 150-125-381



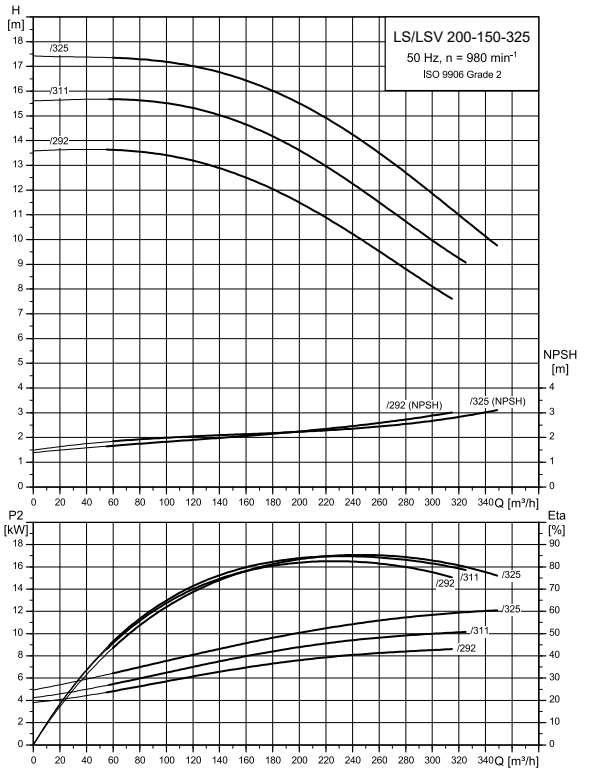
TM089017

LS/LSV 200-150-305

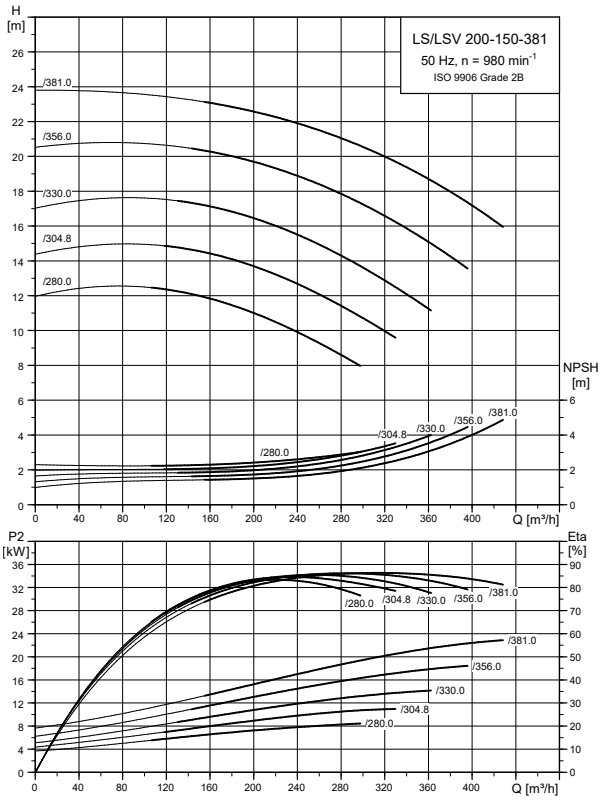


TM089018

LS/LSV 200-150-325



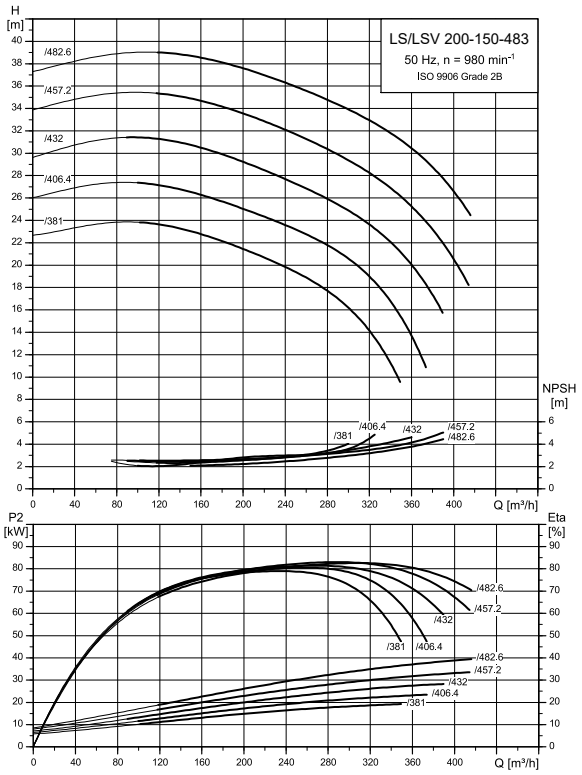
LS/LSV 200-150-381



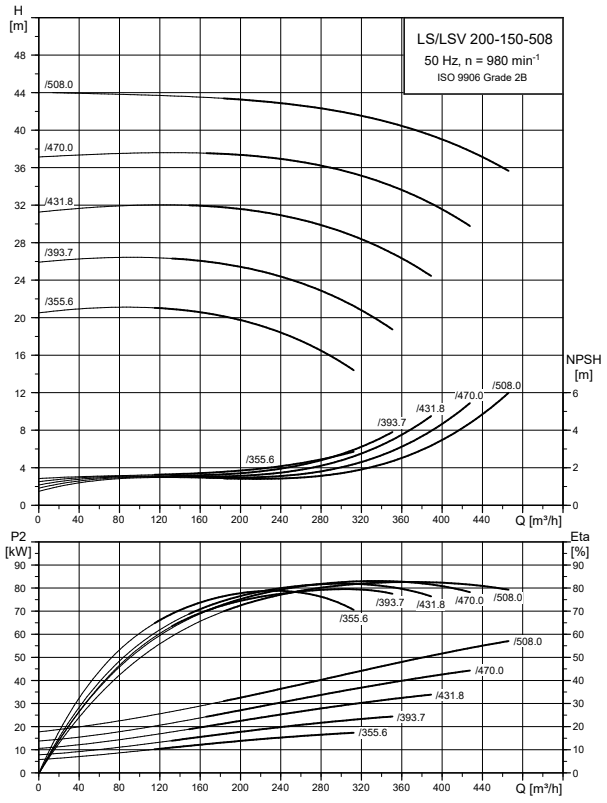
TM089704

TM089019

LS/LSV 200-150-483



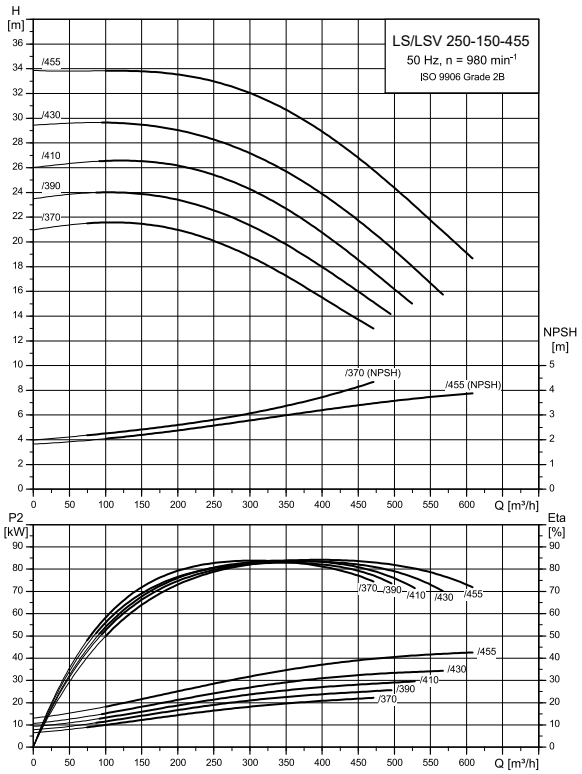
LS/LSV 200-150-508



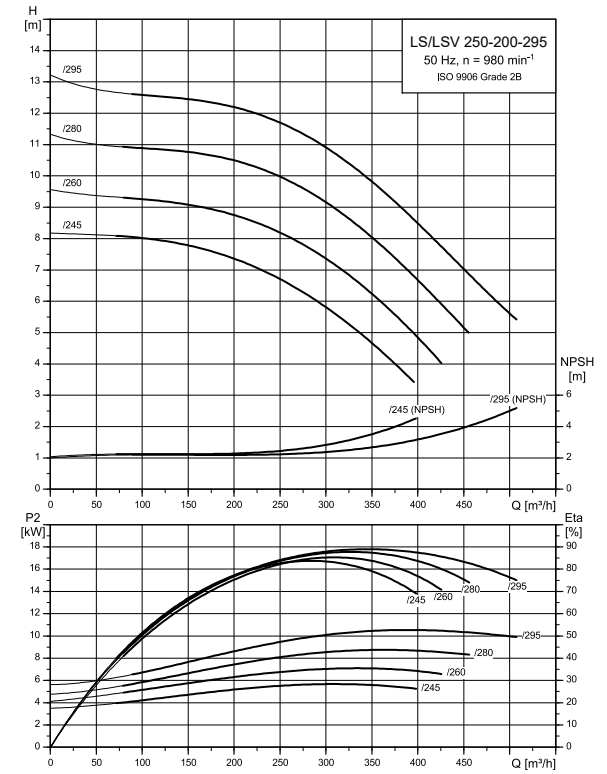
TM089020

TM089021

LS/LSV 250-150-455



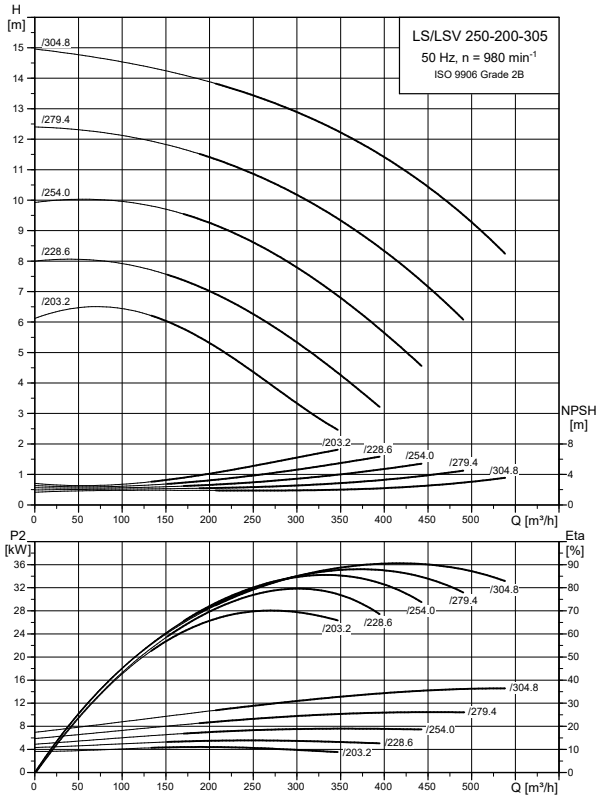
LS/LSV 250-200-295



TM089707

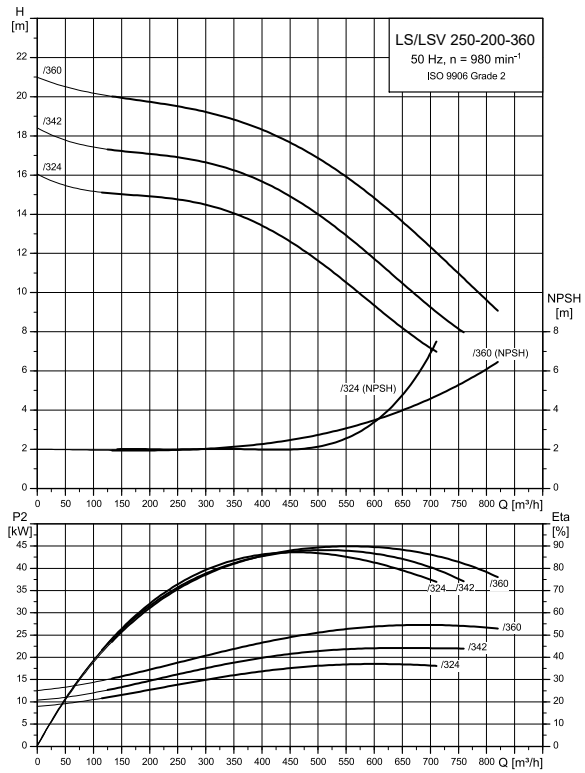
TM089709

LS/LSV 250-200-305



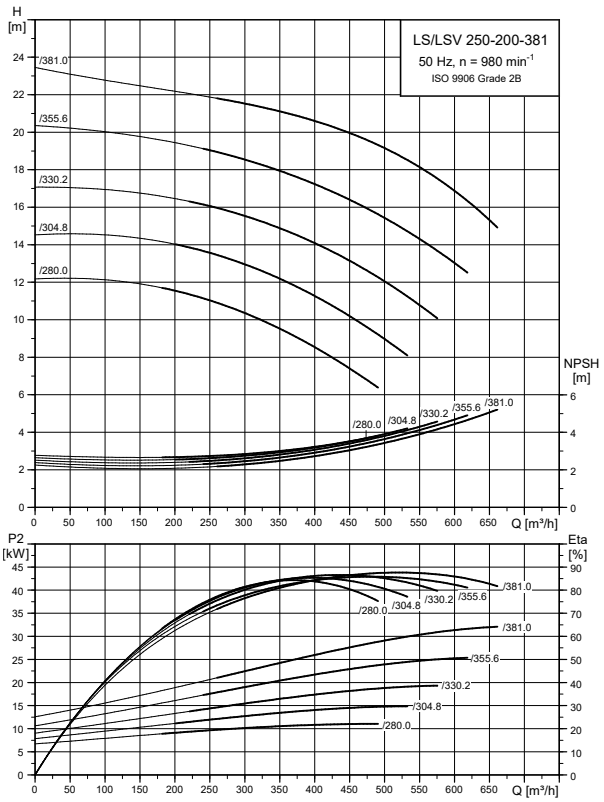
TM089022

LS/LSV 250-200-360



TM089095

LS/LSV 250-200-381



TM089023

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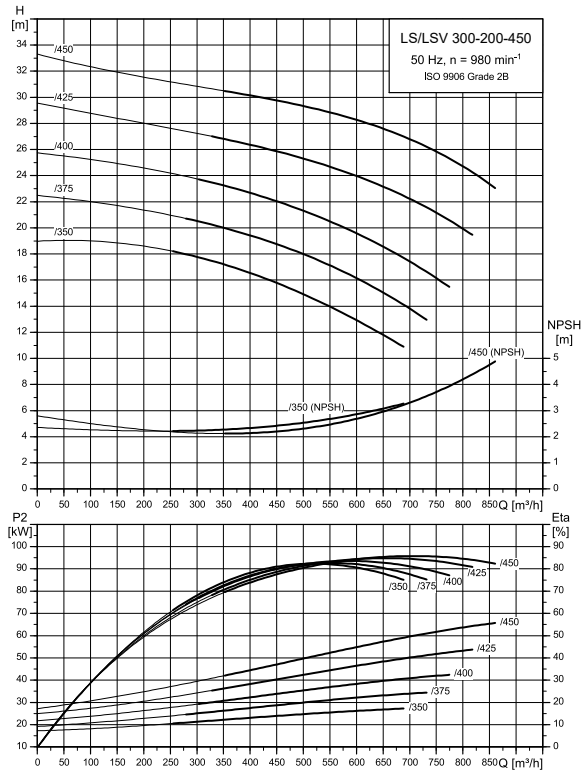

TM089163

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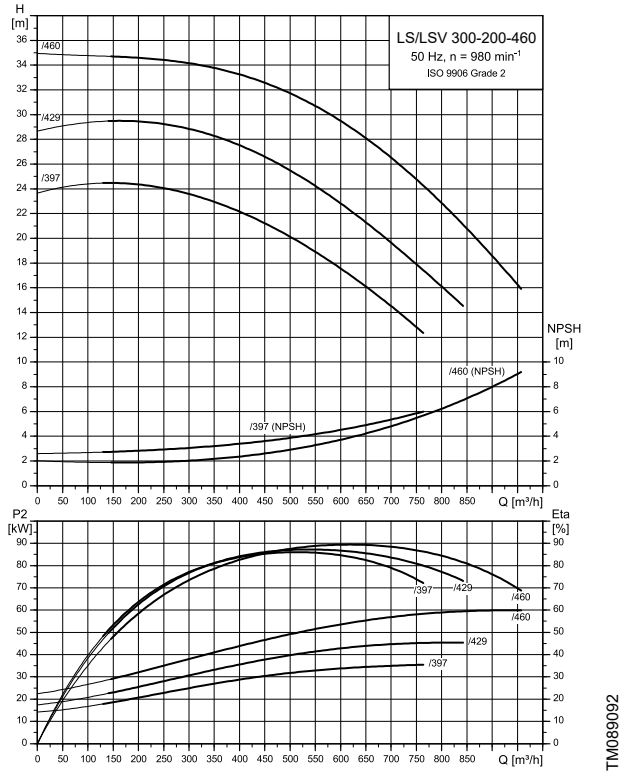

TM089092

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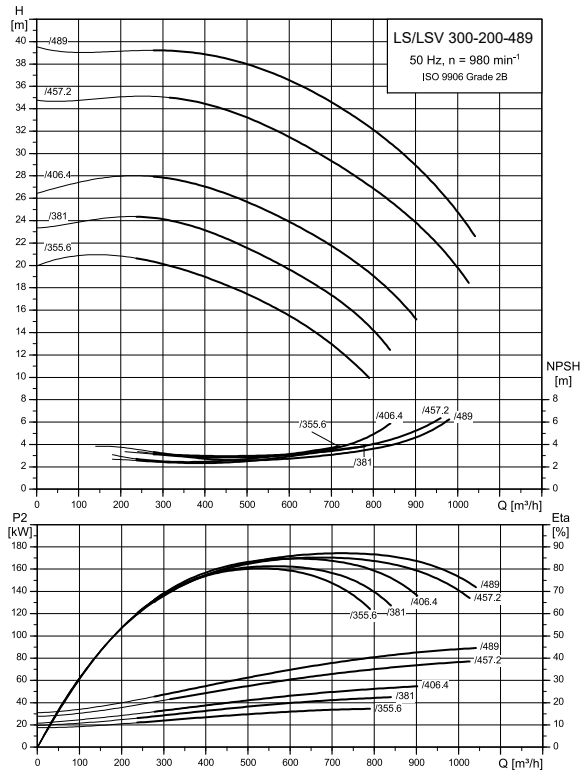
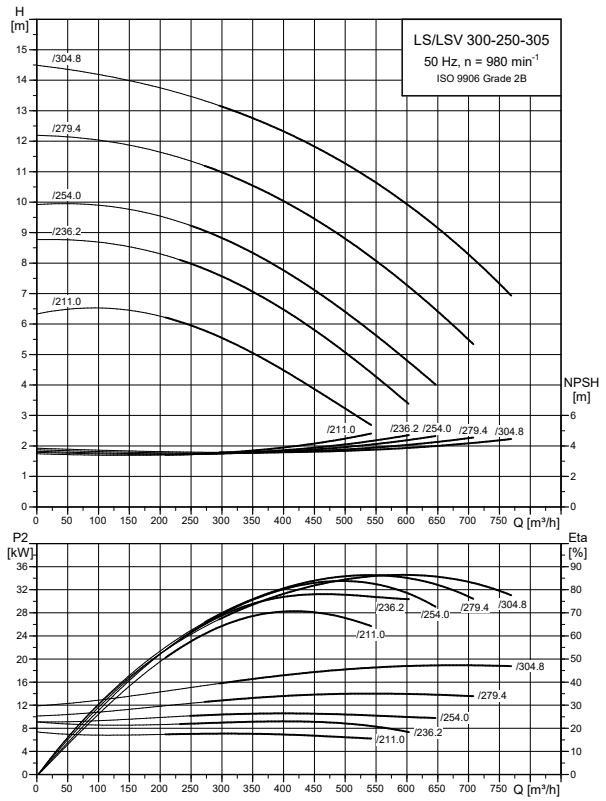


TM089024

LS/LSV 300-250-305



TM089026

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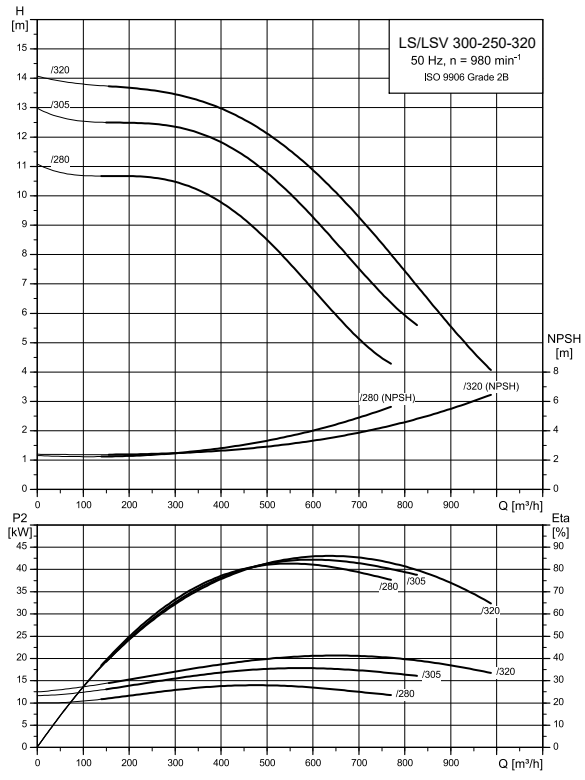
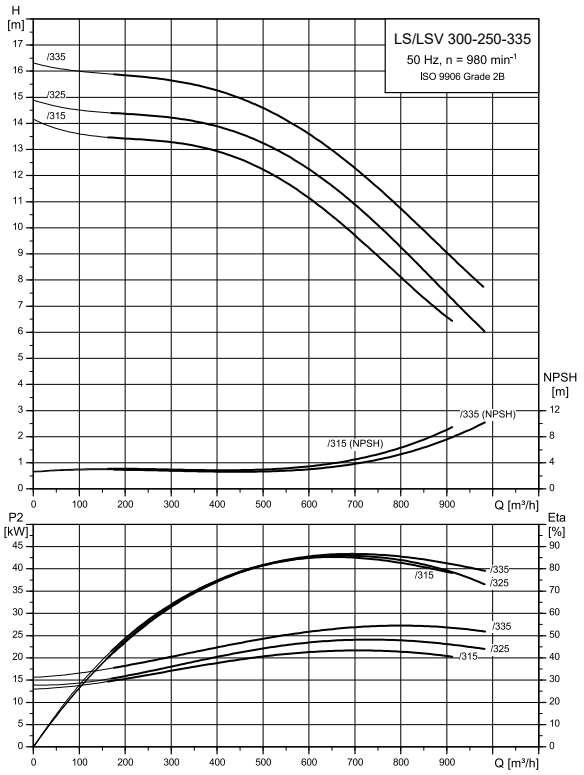
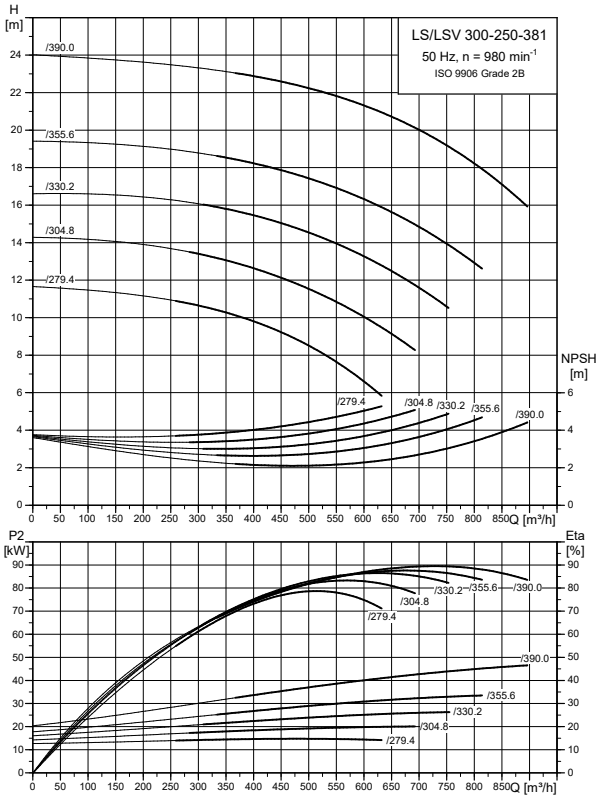


TM089711

LS/LSV 300-250-335



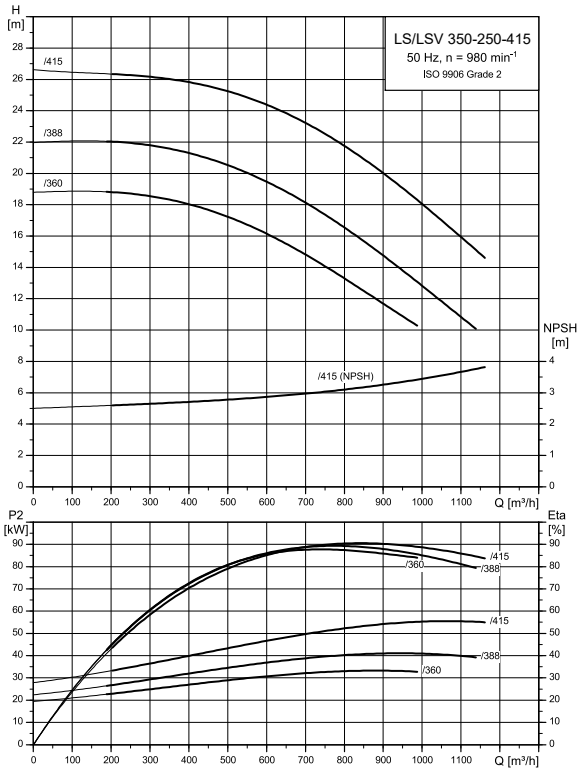
LS/LSV 300-250-381



TM089715

TM089027

LS/LSV 350-250-415



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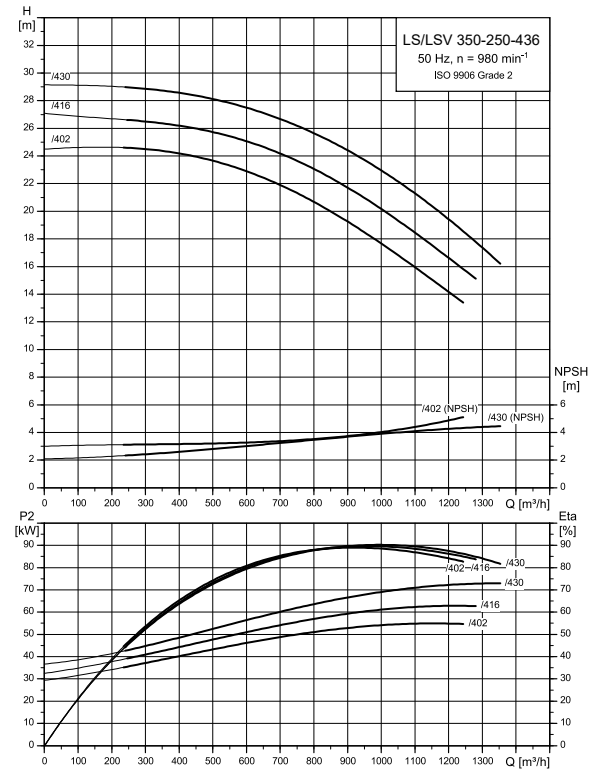
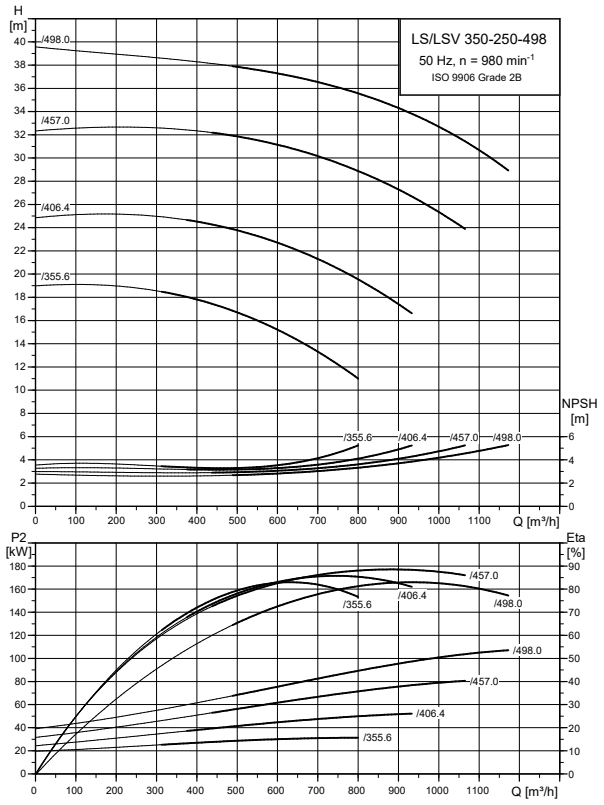


TM089713

TM089737

LS/LSV 350-250-498



TM089028

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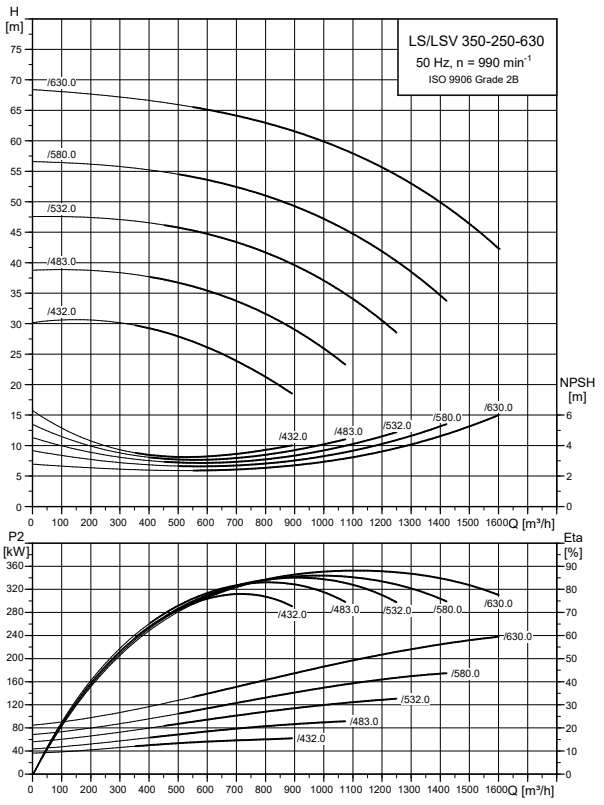

TM089029

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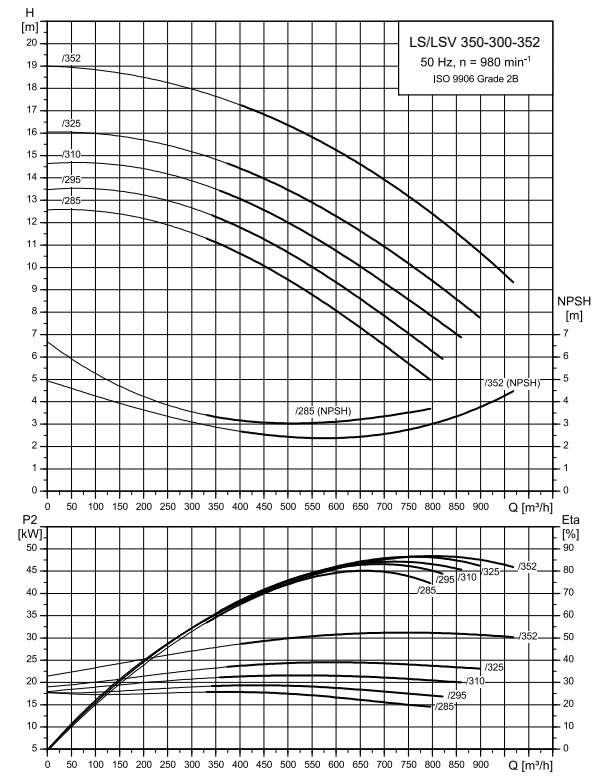

TM089164

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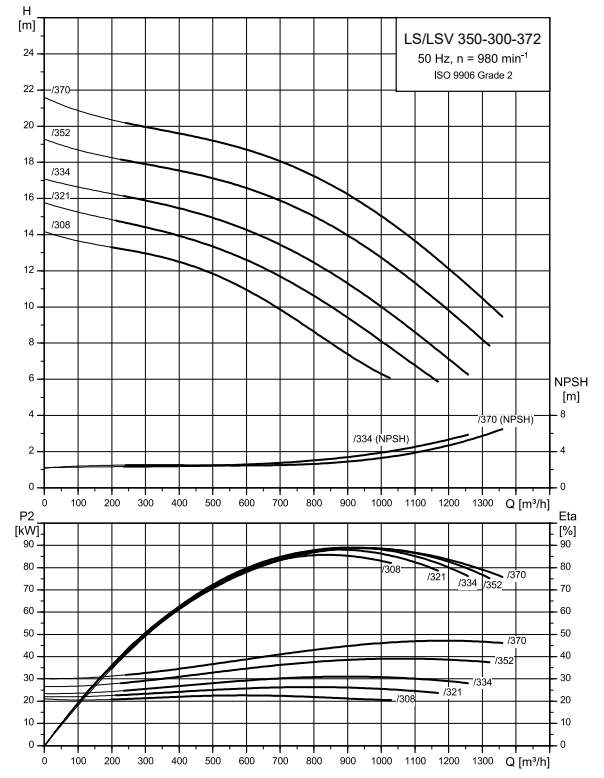

TM089717

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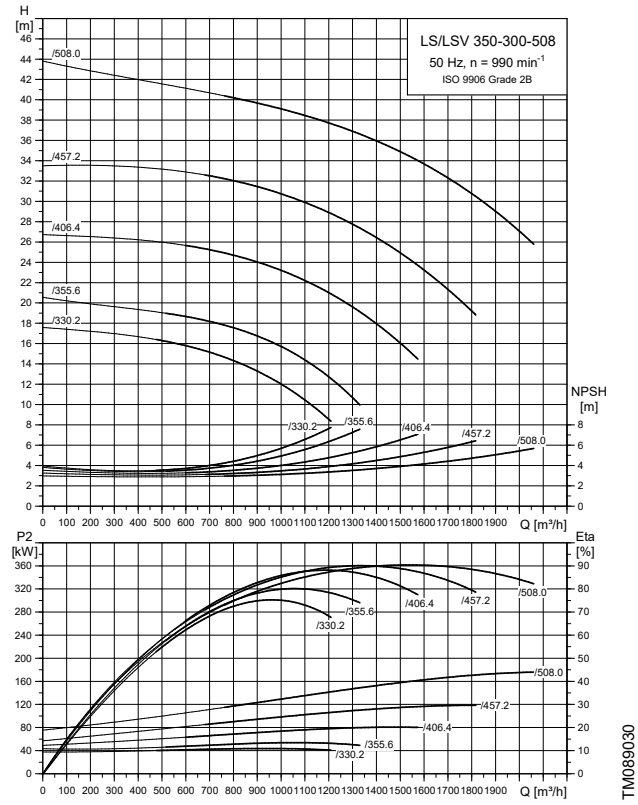
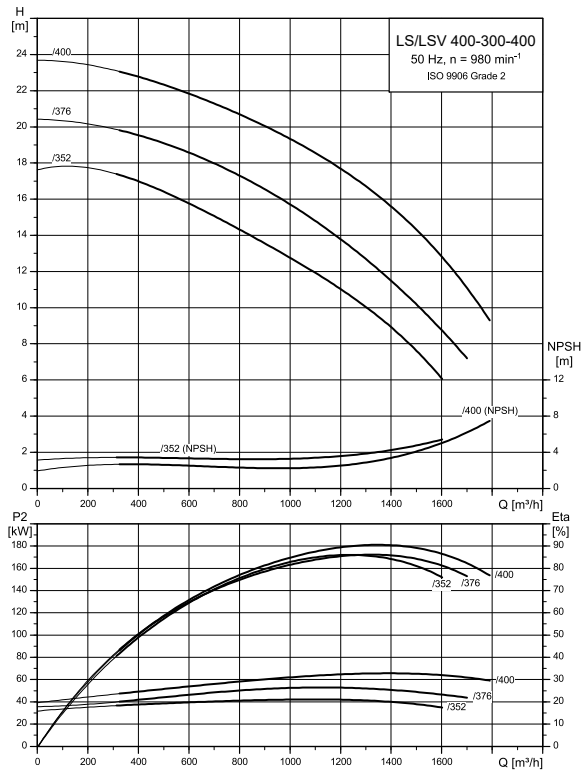


TM089030

LS/LSV 400-300-400



TM089093

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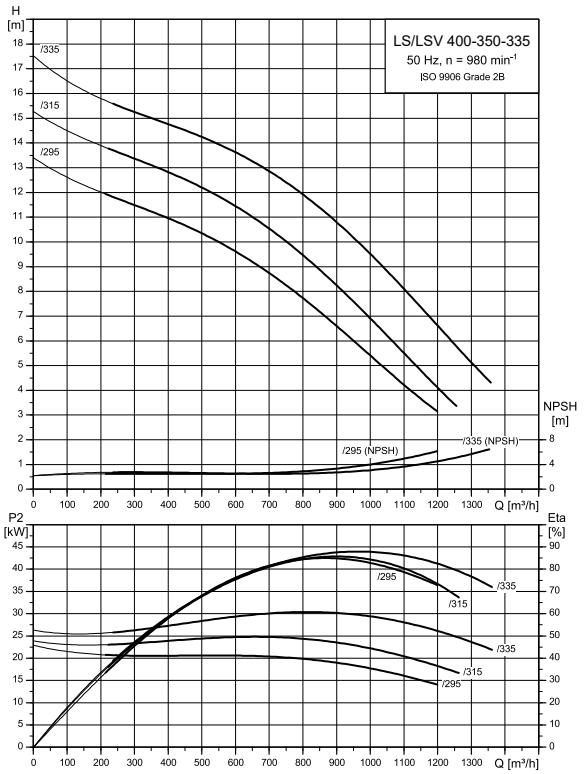

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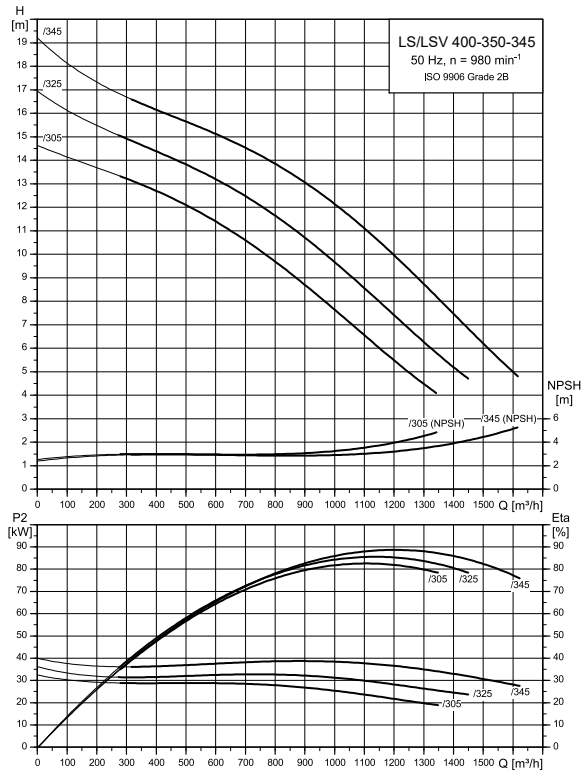
LS/LSV 400-350-345



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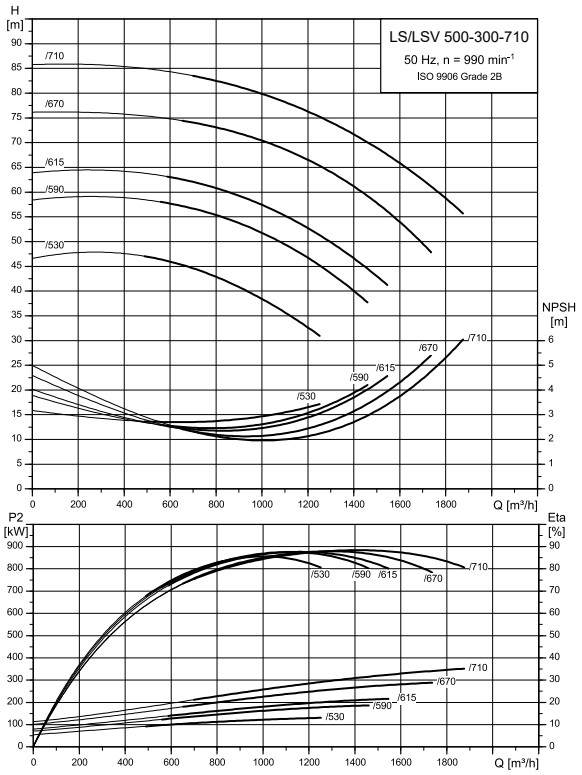
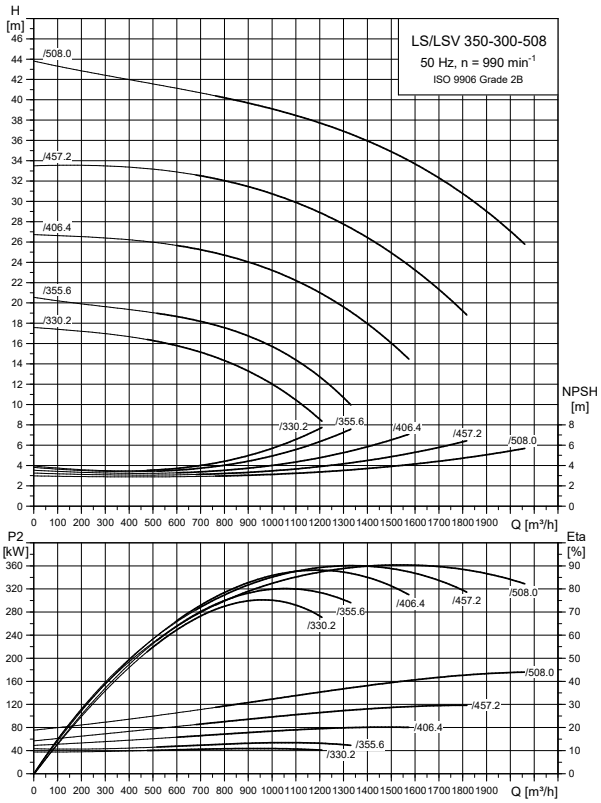


TM089031

LS/LSV 500-300-508



TM089030

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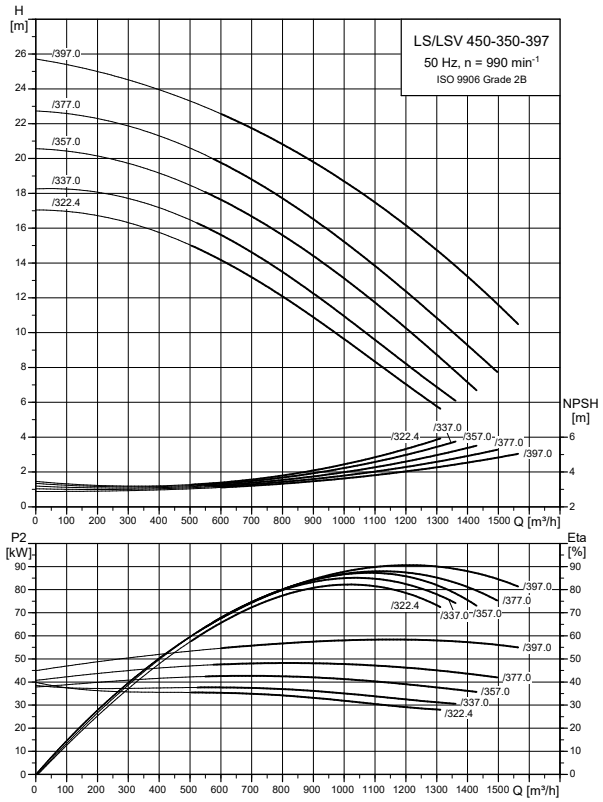
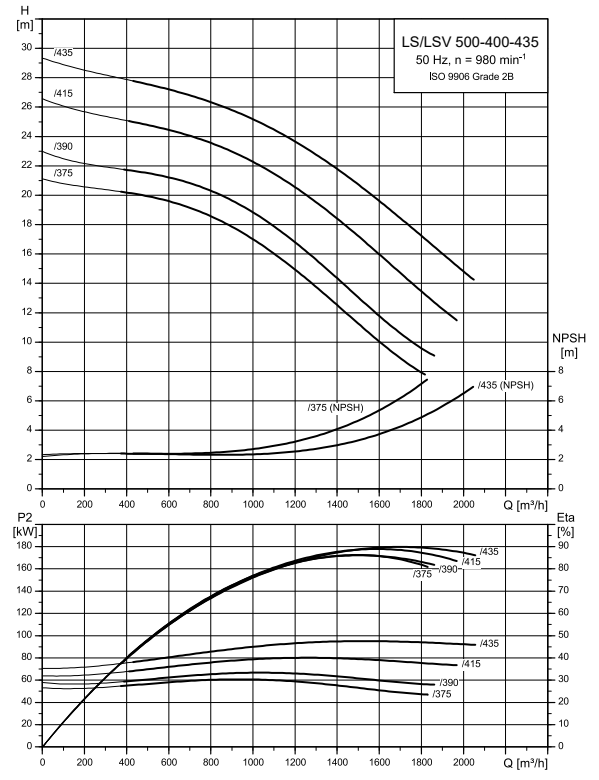


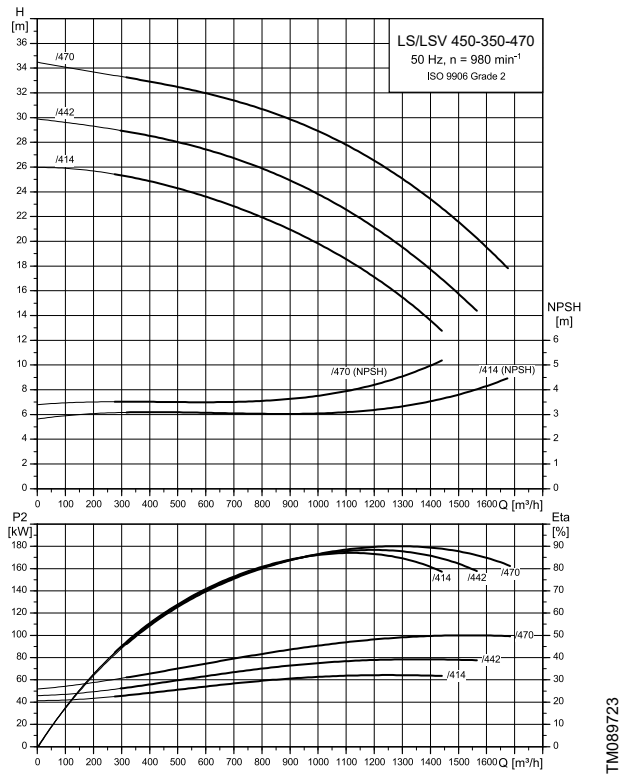
TM089033

LS/LSV 500-400-435



TM089727

LS/LSV 450-350-470



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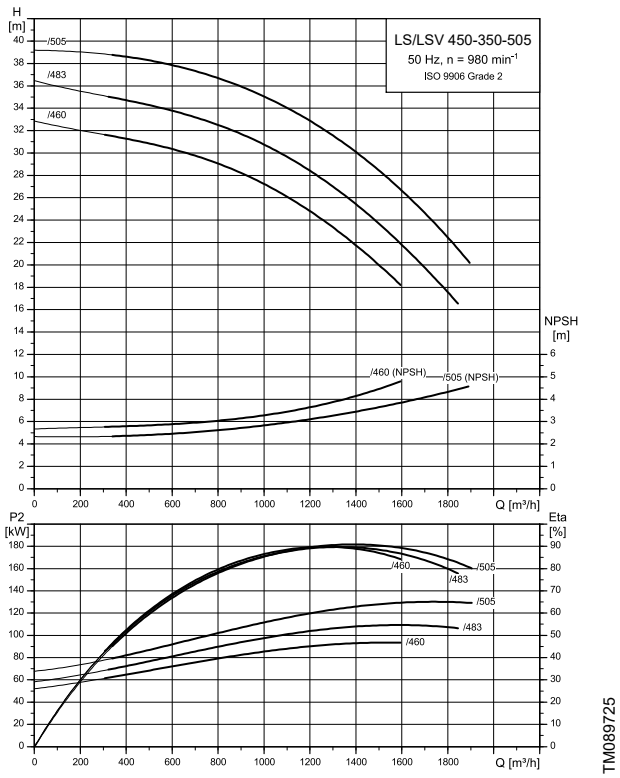

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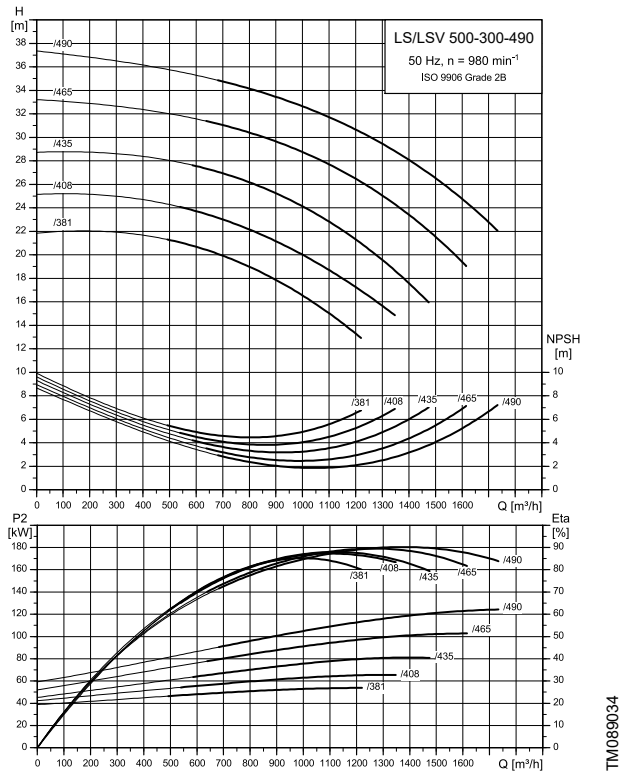

TM089034

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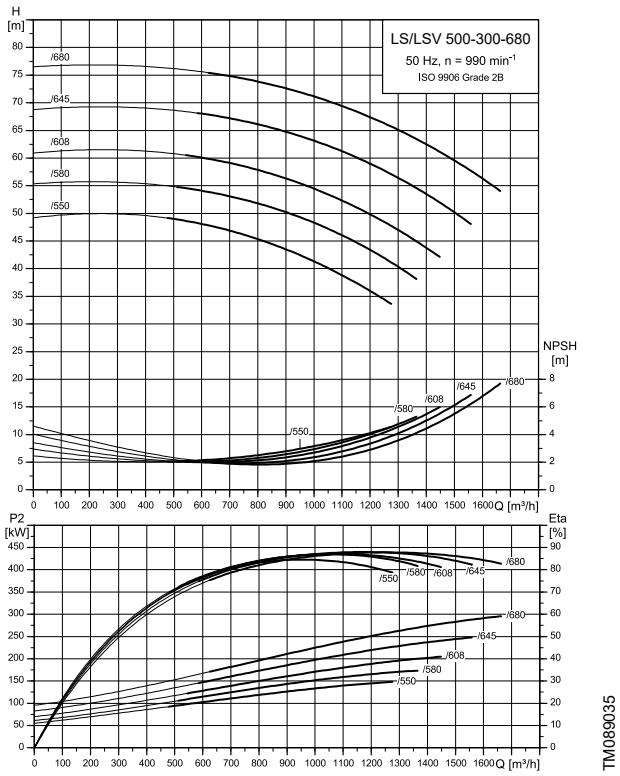

TM089035

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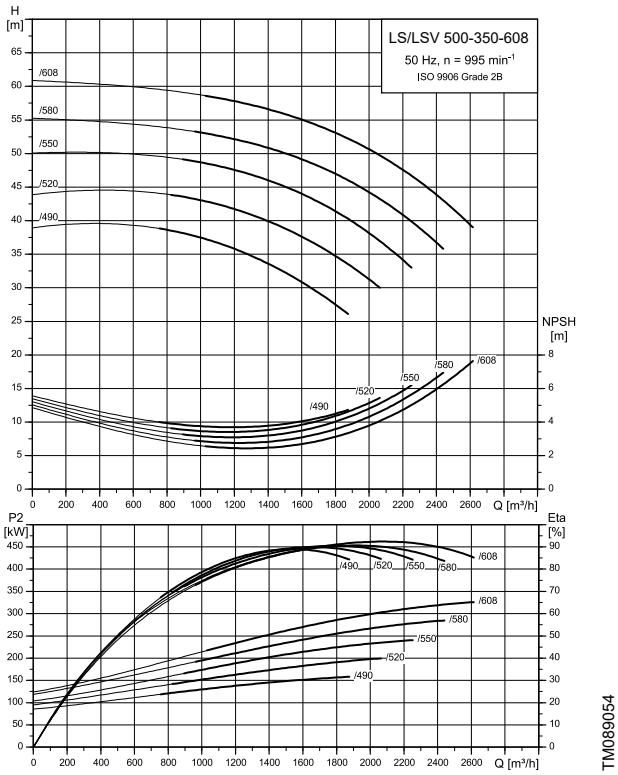

TM089054

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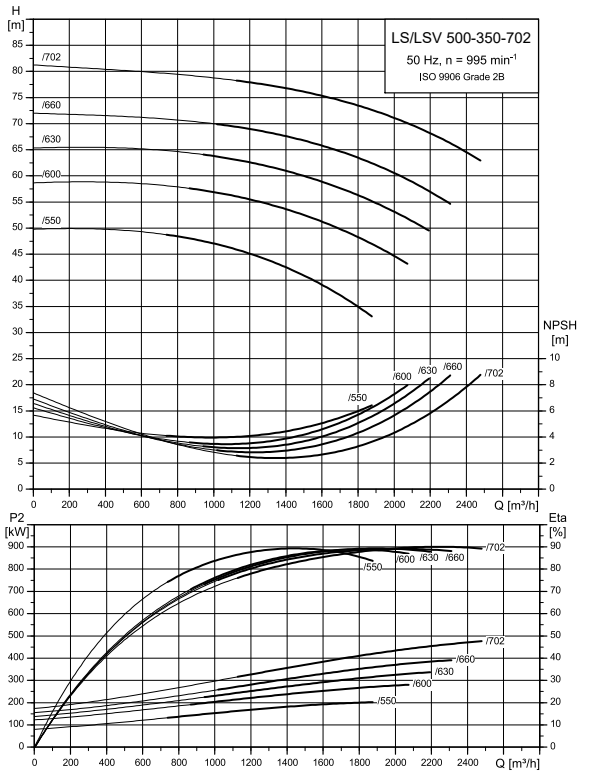

TM089055

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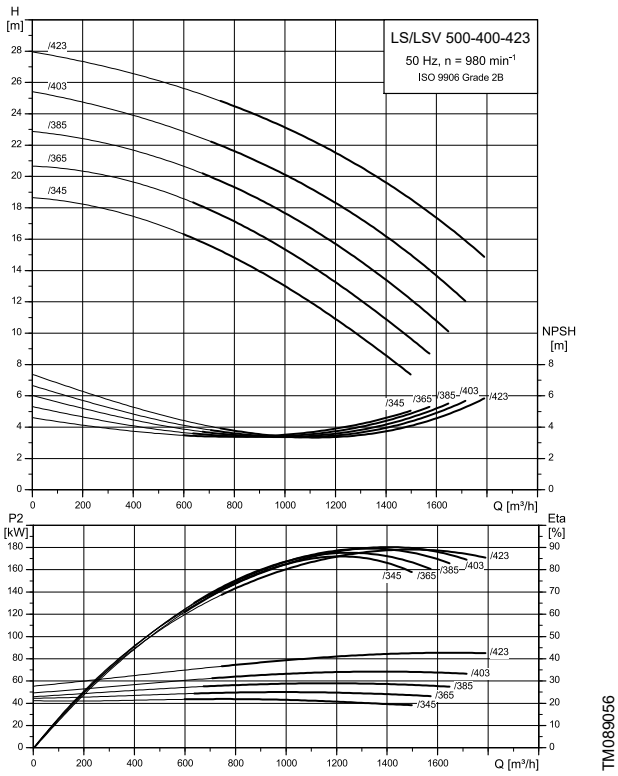

TM089056

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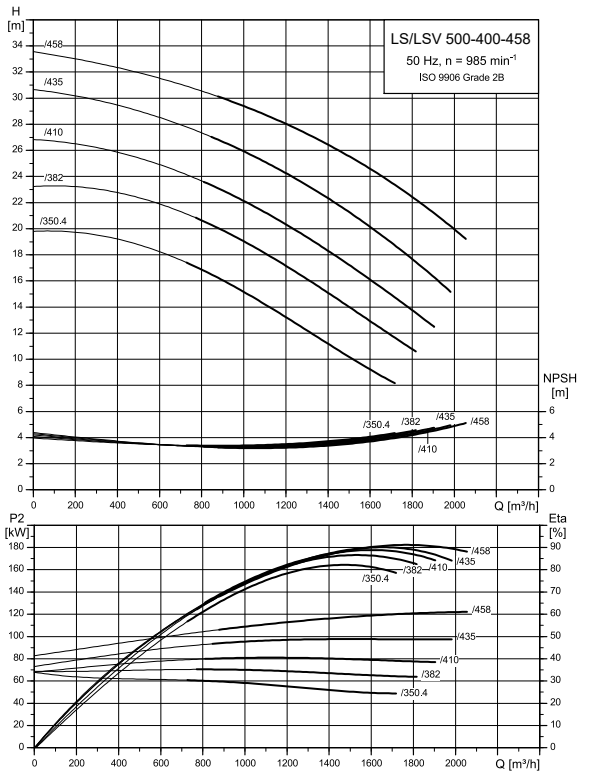

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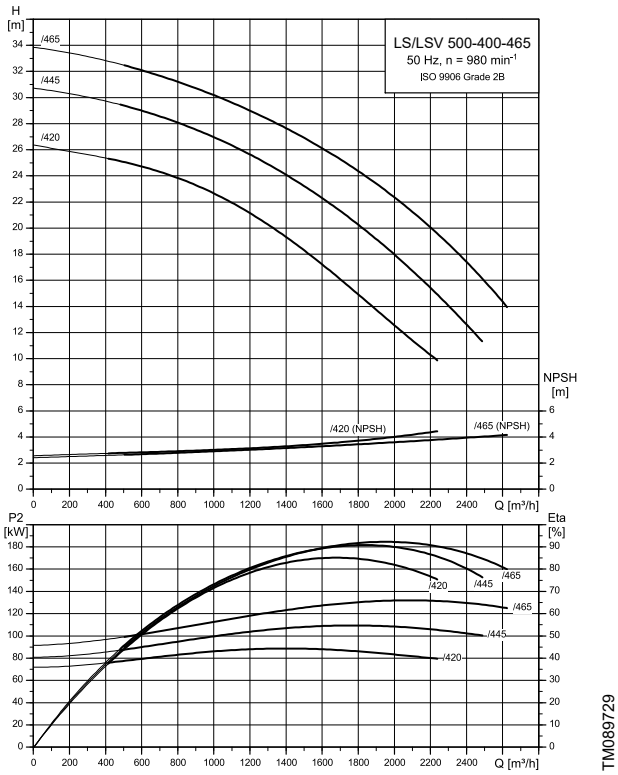

TM089729

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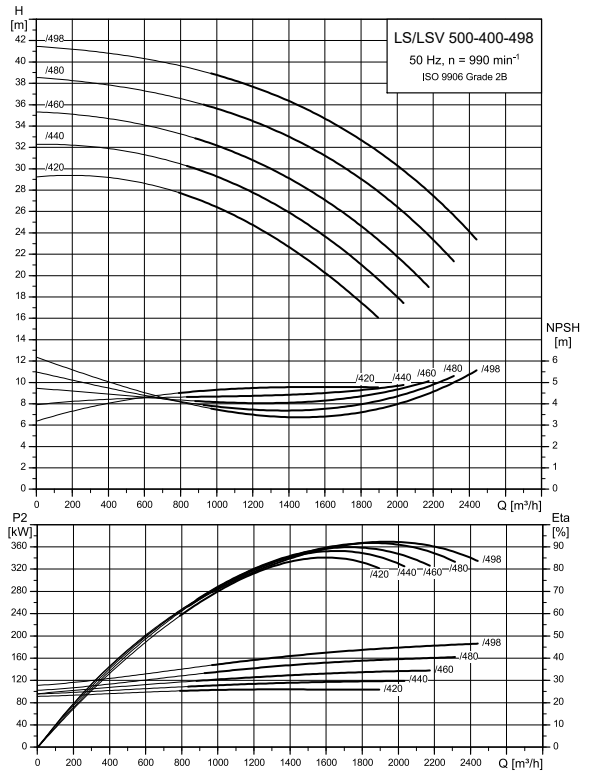

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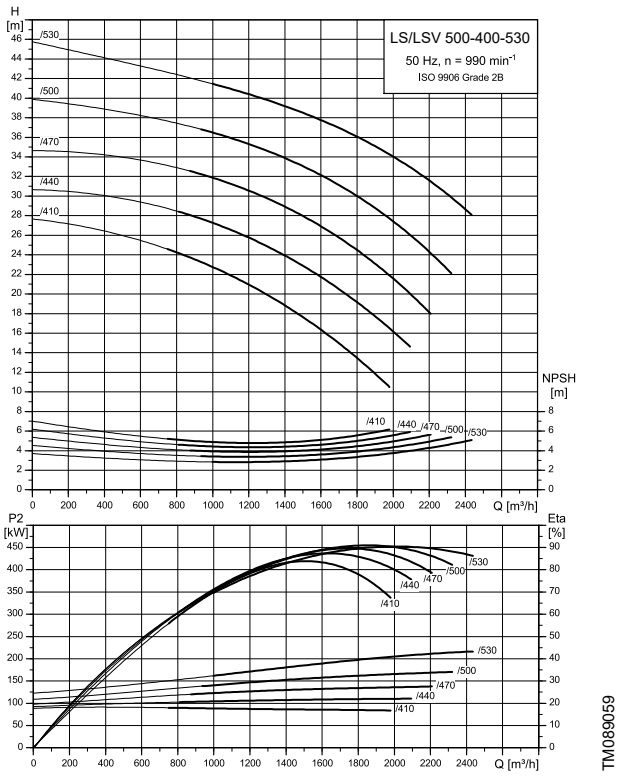

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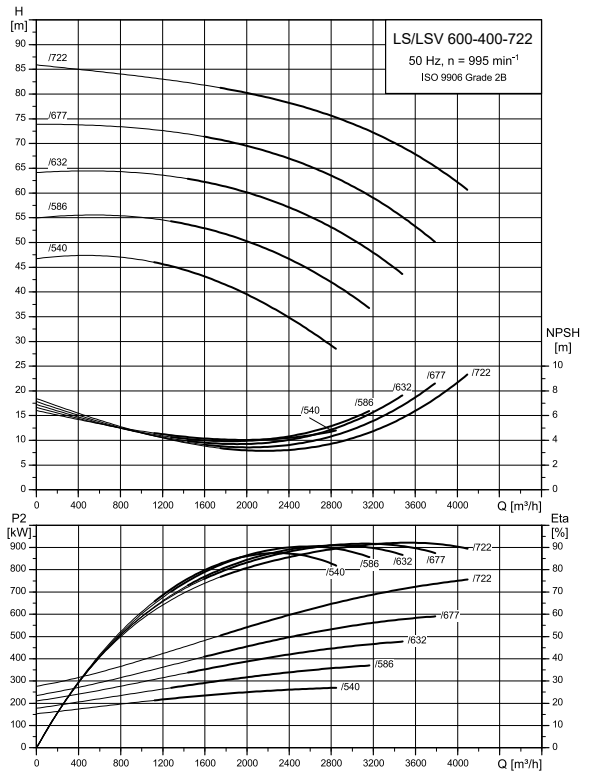
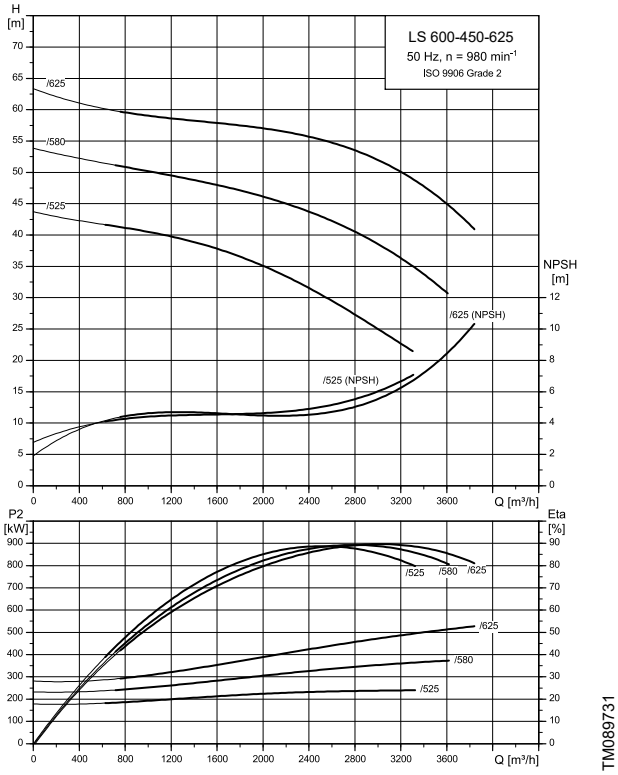


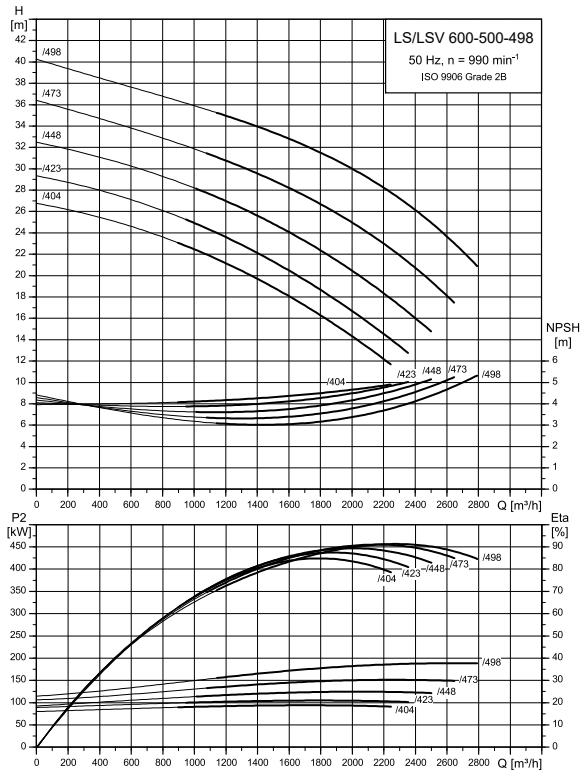
TM089060

LS 600-450-625



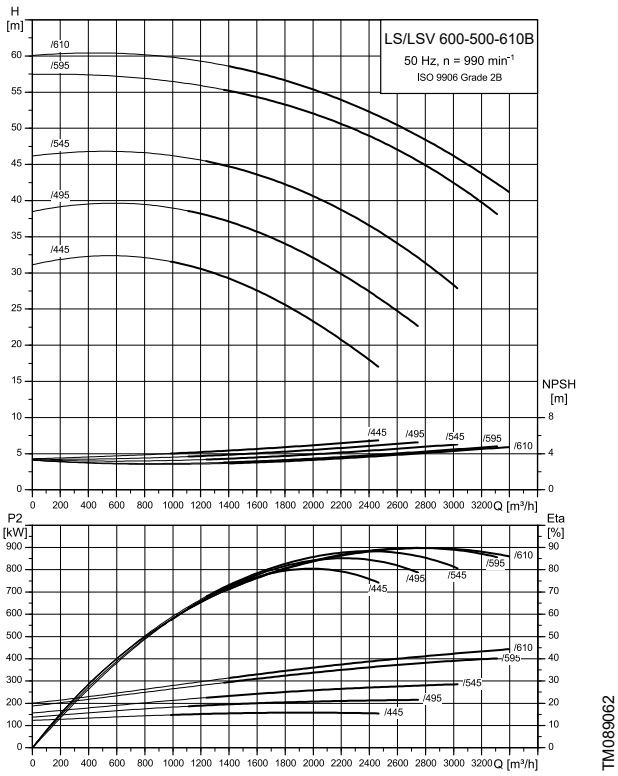
TM089731

LS/LSV 600-500-498



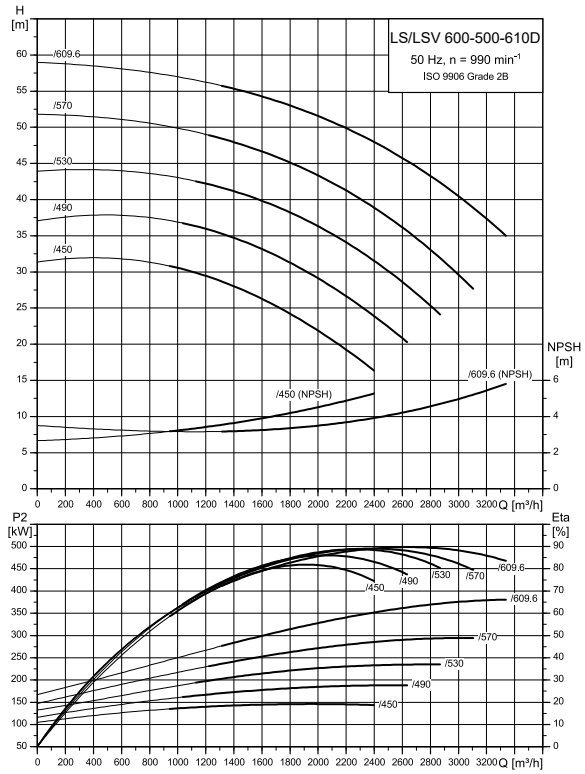
TM089061

LS/LSV 600-500-610B



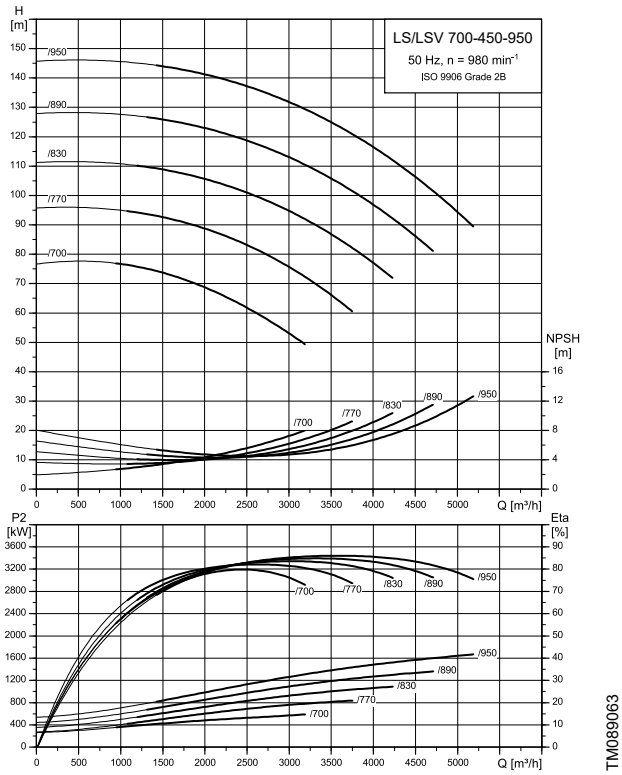
TM089062

LS/LSV 600-500-610D



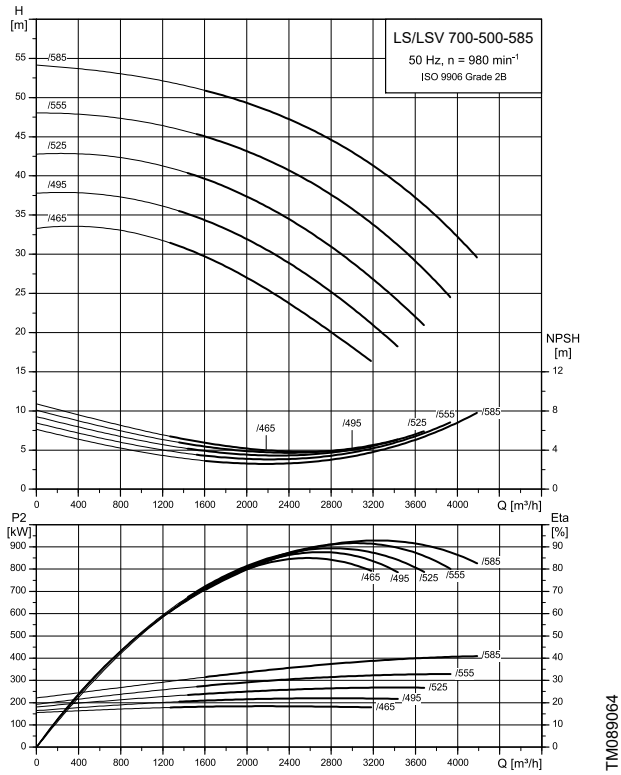
TM089294

LS/LSV 700-450-950



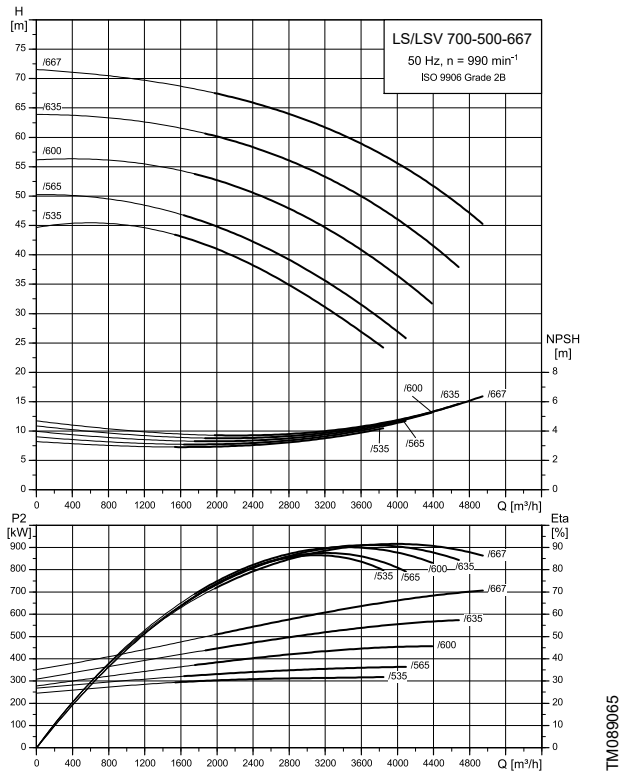
TM089063

LS/LSV 700-500-585



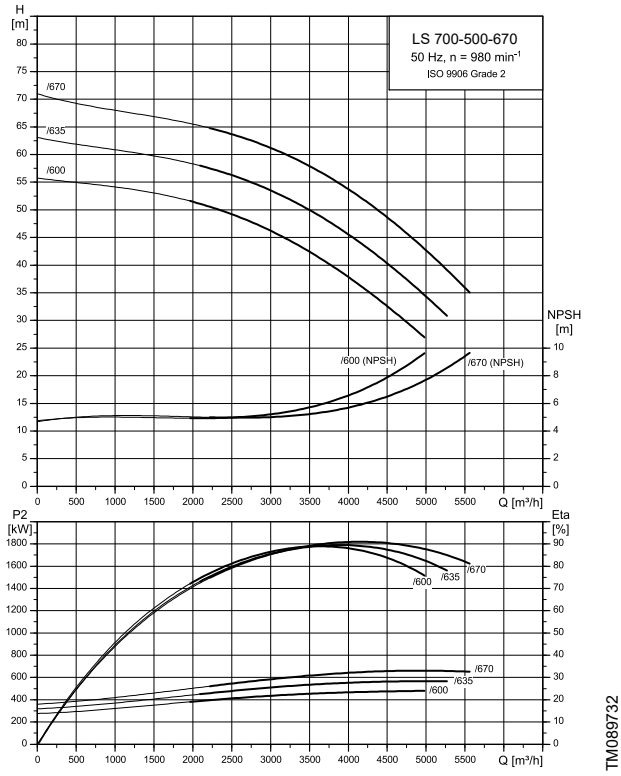
TM089064

LS/LSV 700-500-667



TM089065

LS 700-500-670



TM089732

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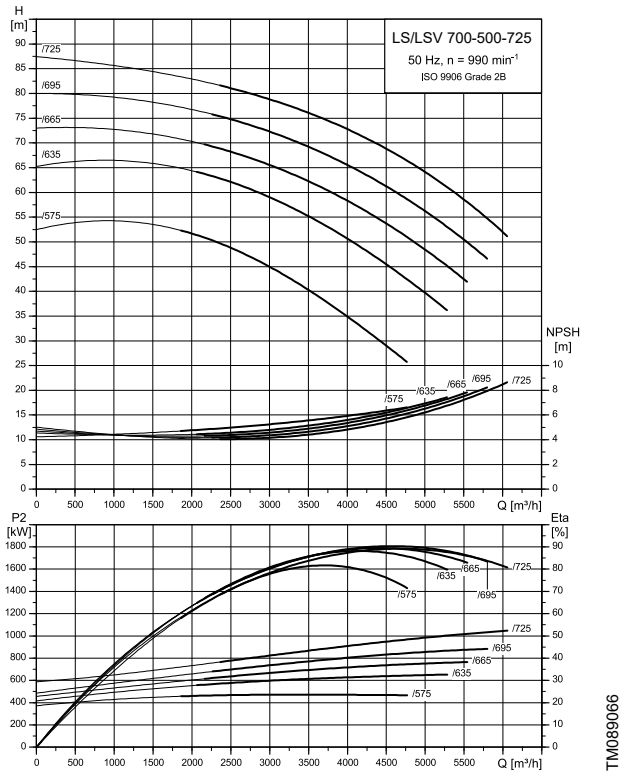
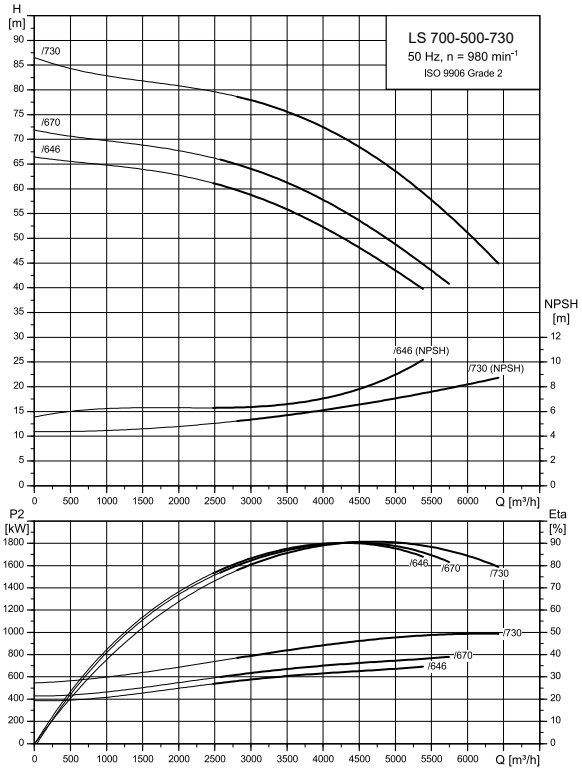


TM089066

LS 700-500-730



TM089734

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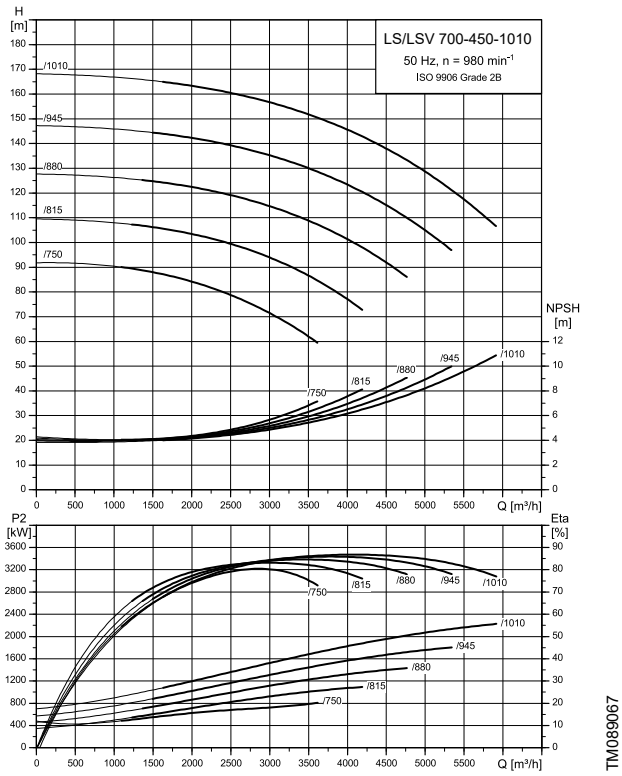
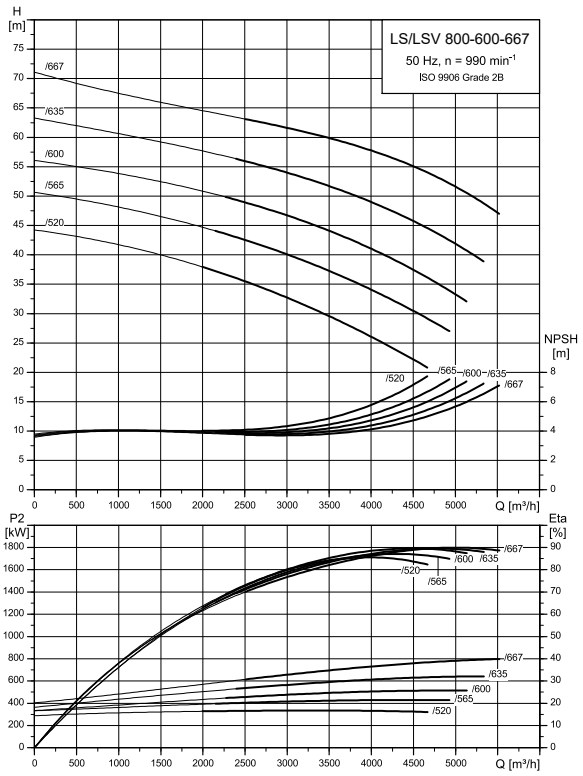


TM089067

LS/LSV 800-600-667



TM089068

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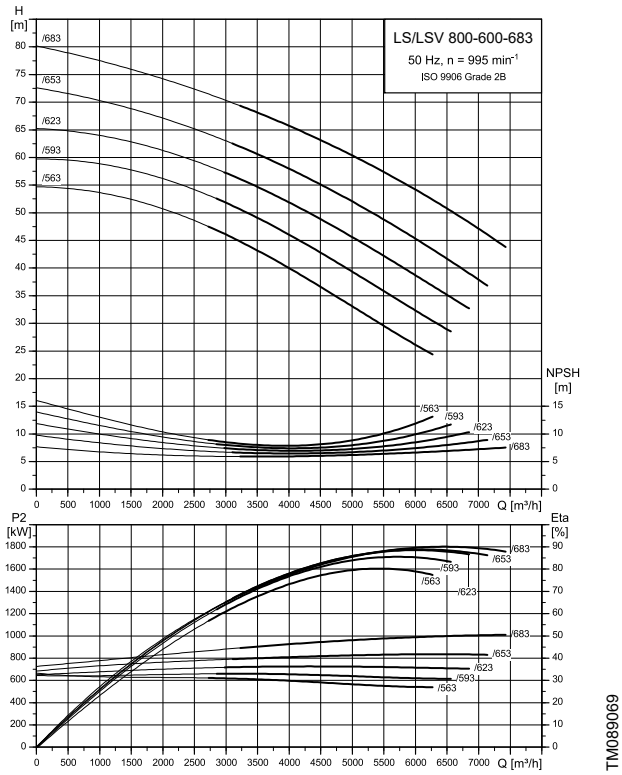
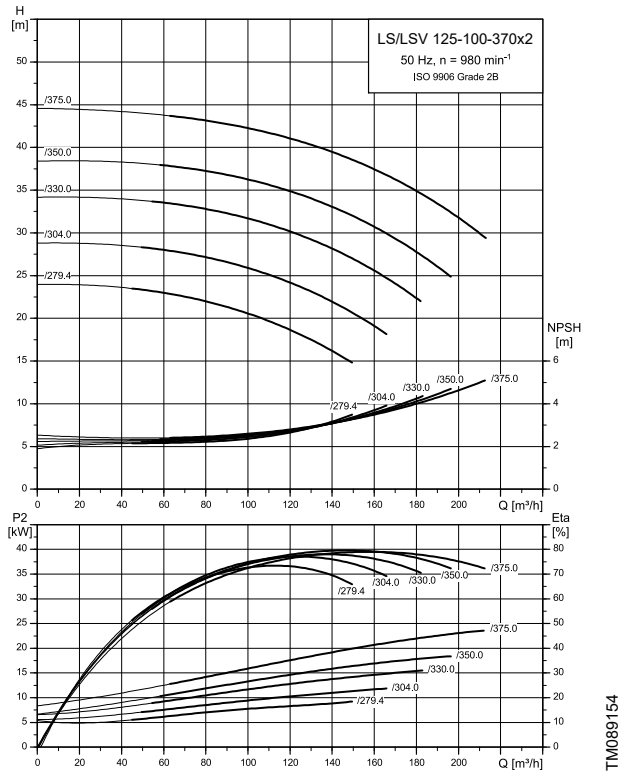


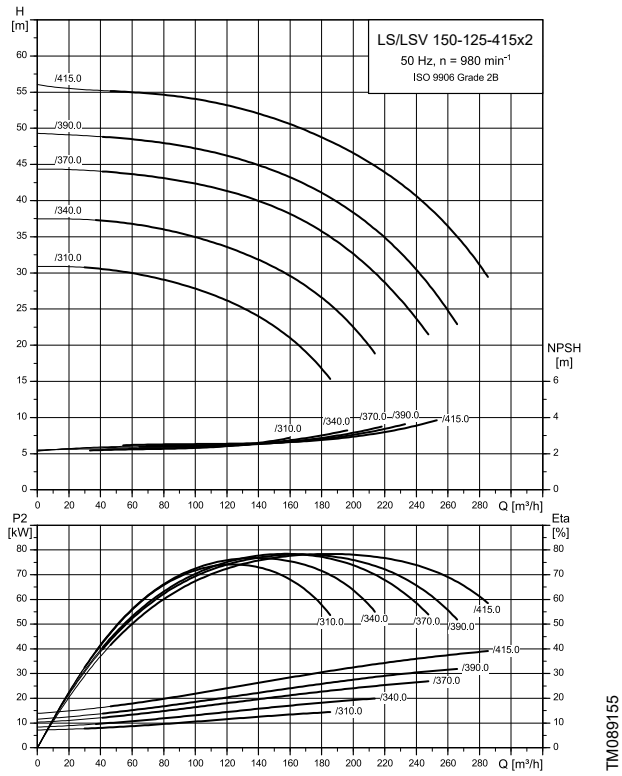
TM089069

LS/LSV 125-100-370×2



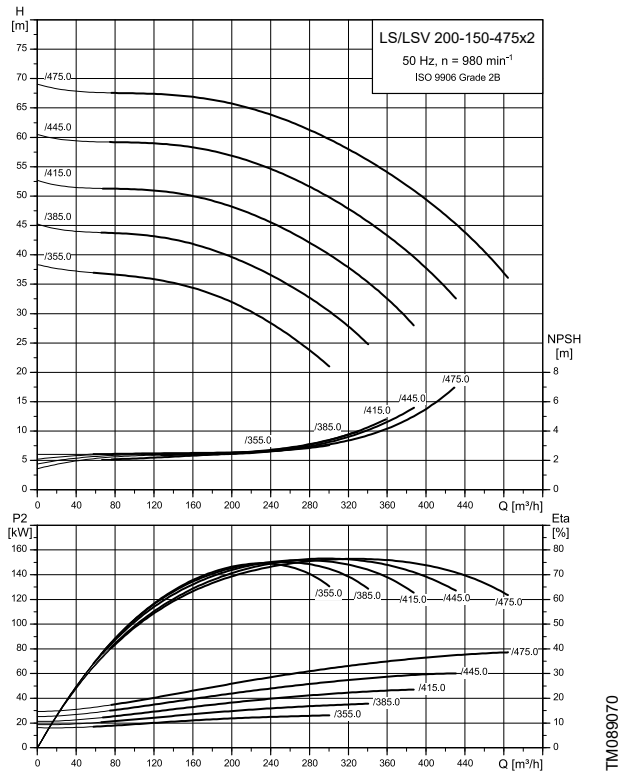
TM089154

LS/LSV 150-125-415×2



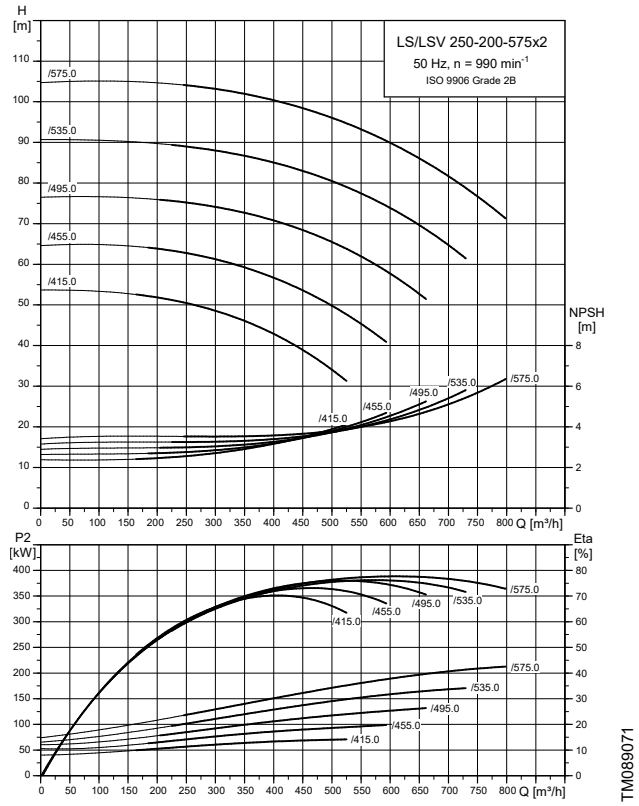
TM089155

LS/LSV 200-150-475×2



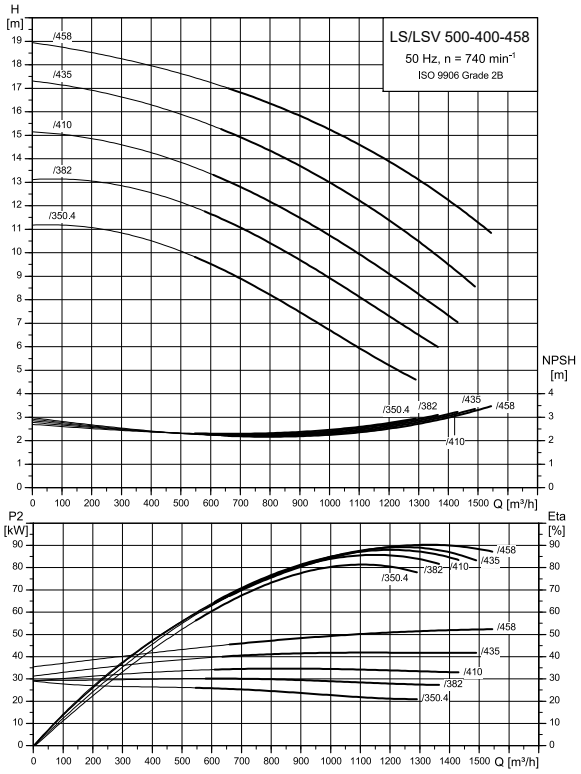
TM089070

LS/LSV 250-200-575×2



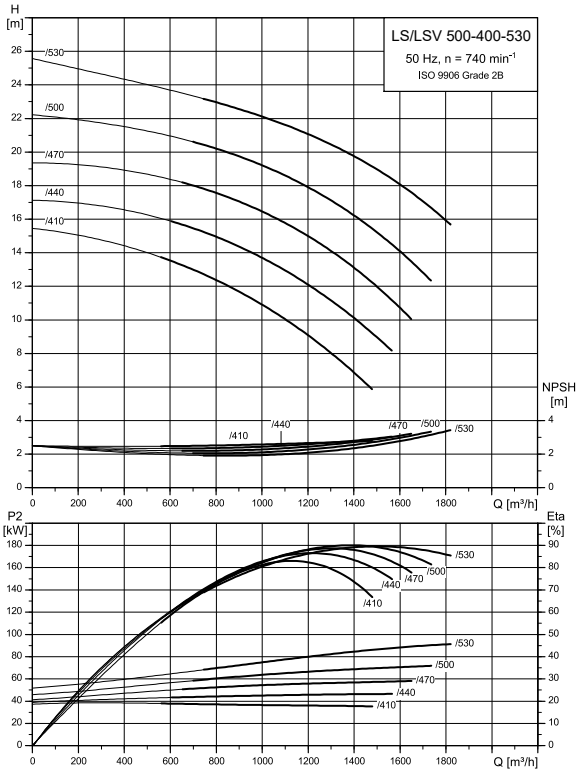
8-pole

LS/LSV 500-400-458



TM089072

LS/LSV 500-400-530



TM089073

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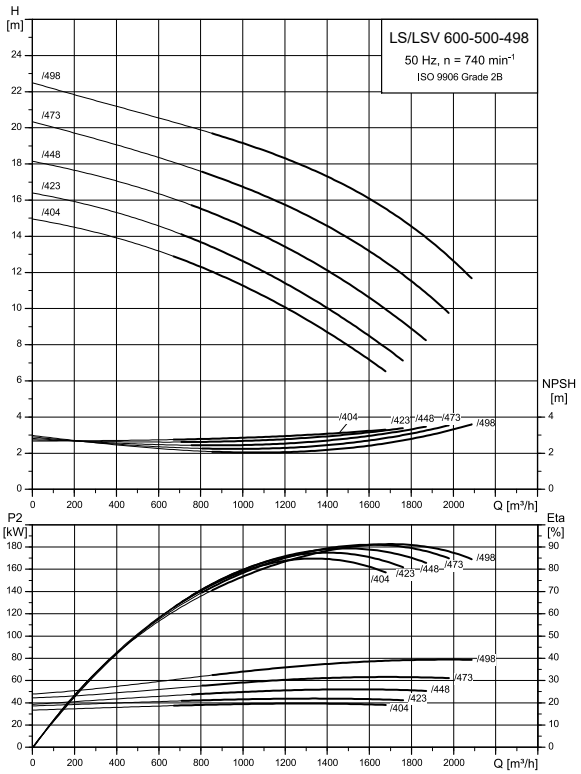
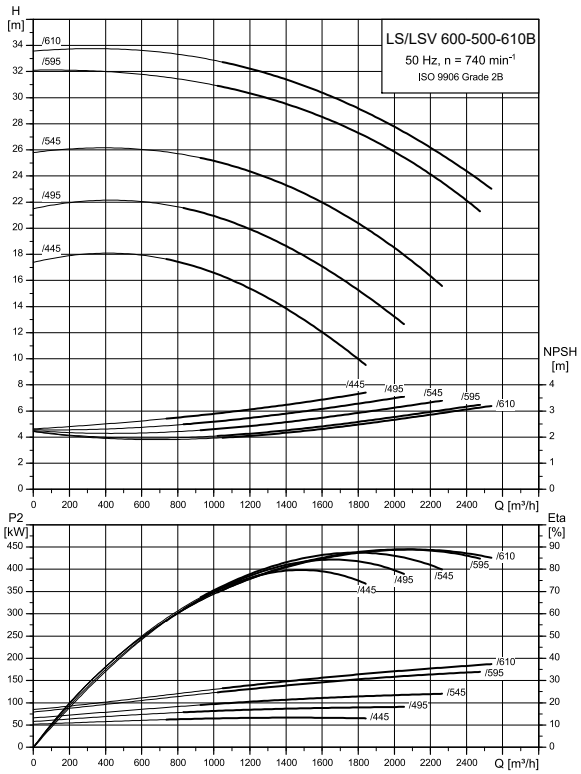


TM089074

LS/LSV 600-500-610B



TM089075

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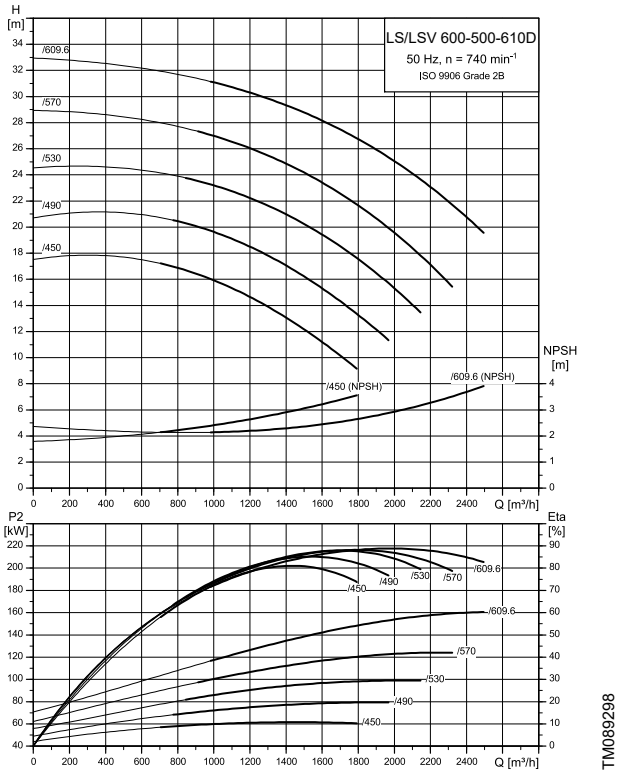
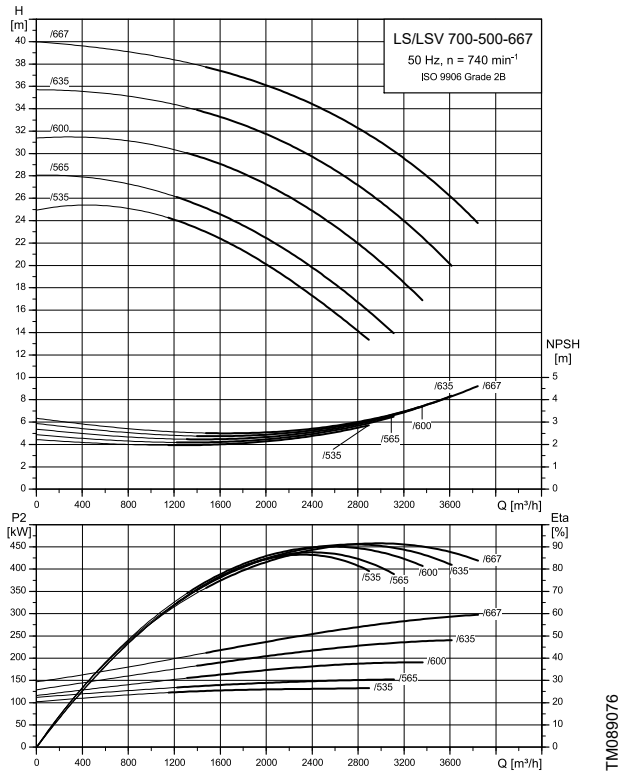


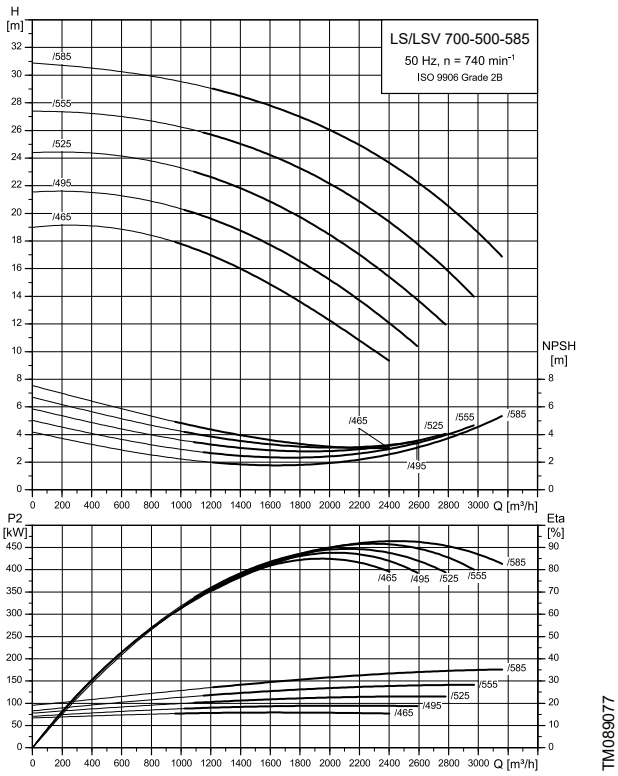
TM089298

LS/LSV 700-500-667



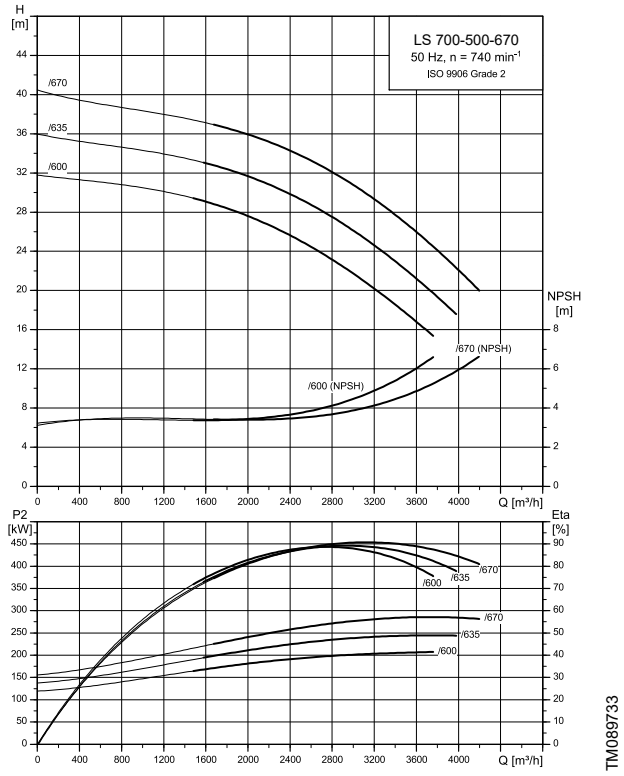
TM089076

LS/LSV 700-500-585



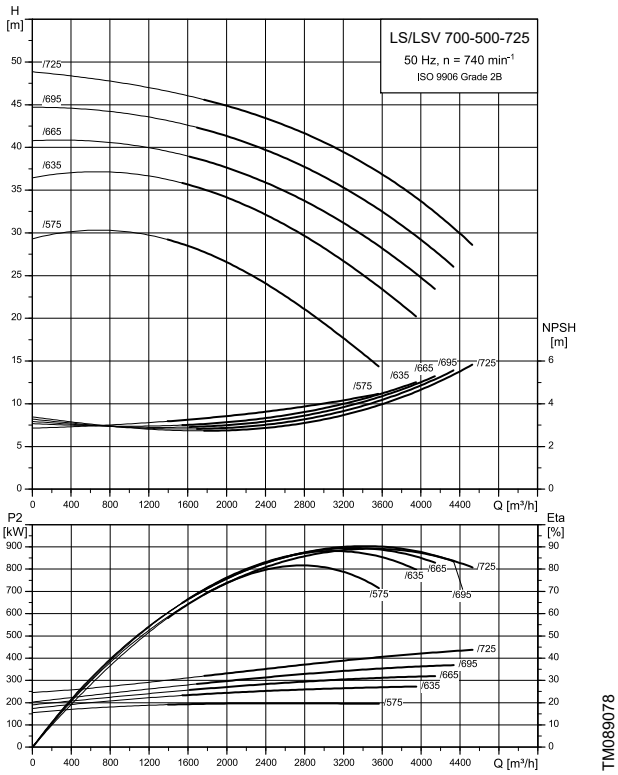
TM089077

LS 700-500-670



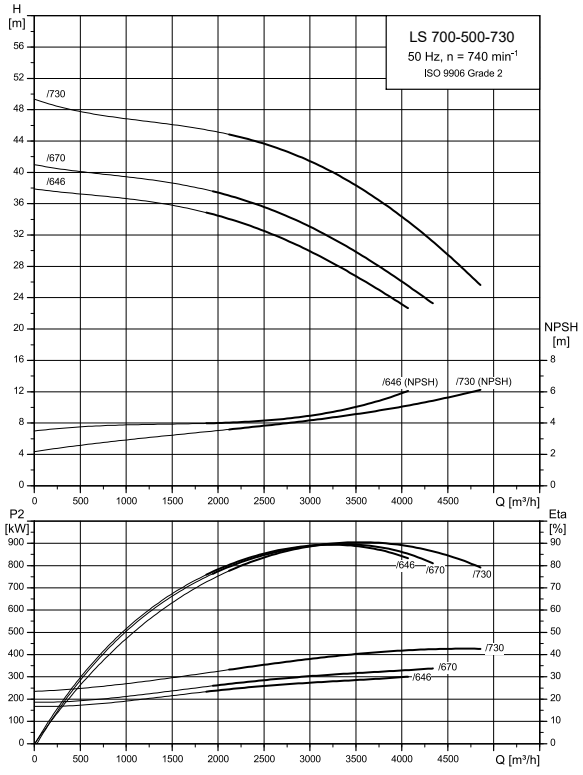
TM089733

LS/LSV 700-500-725



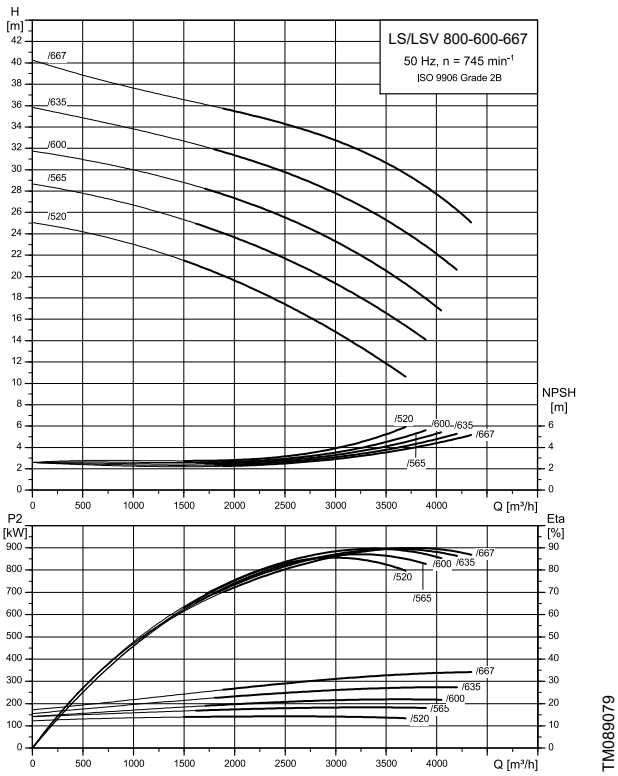
TM089078

LS 700-500-730



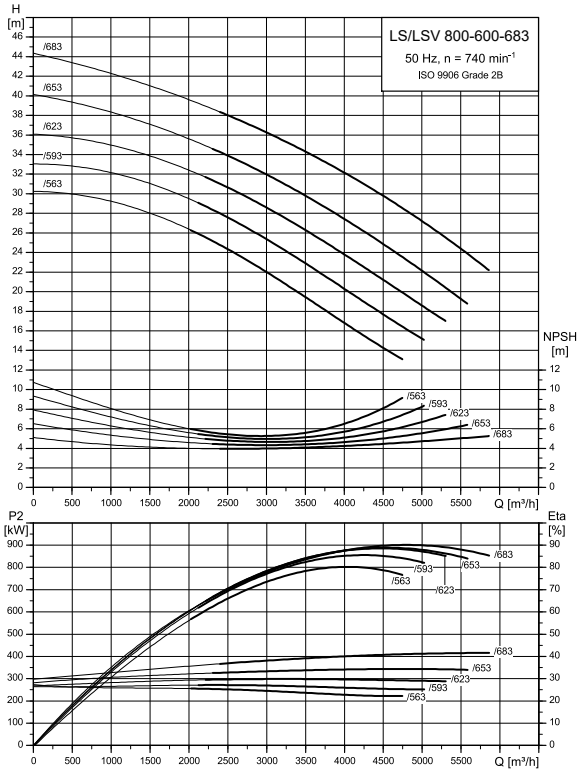
TM089735

LS/LSV 800-600-667



TM089079

LS/LSV 800-600-683



TM089080

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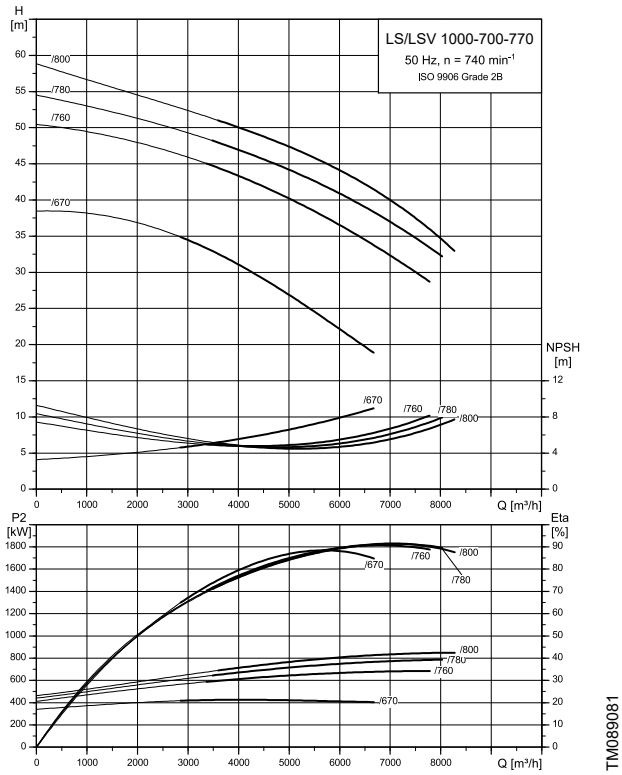

TM089081

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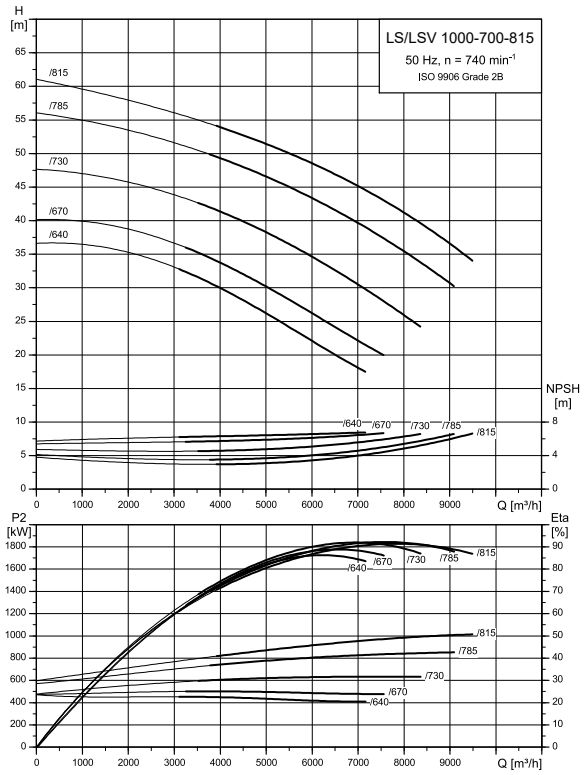

TM089082

10-pole

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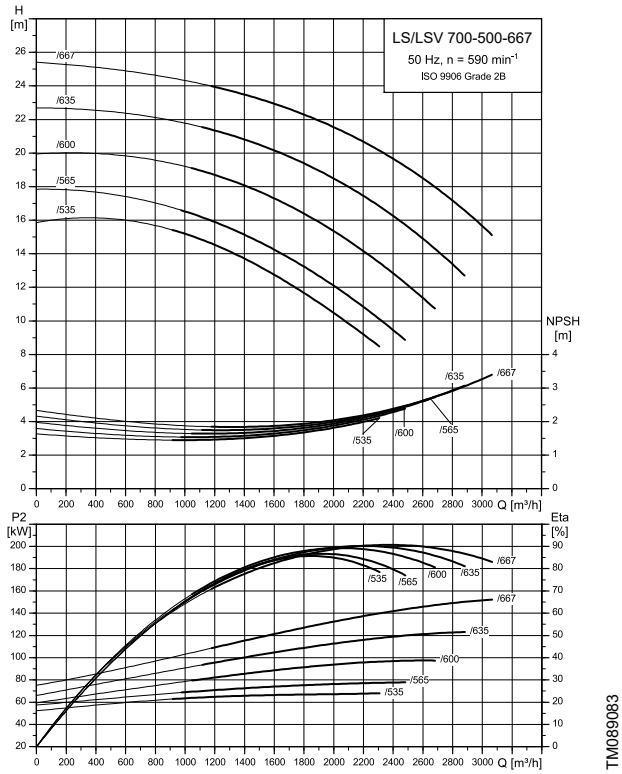

TM089083

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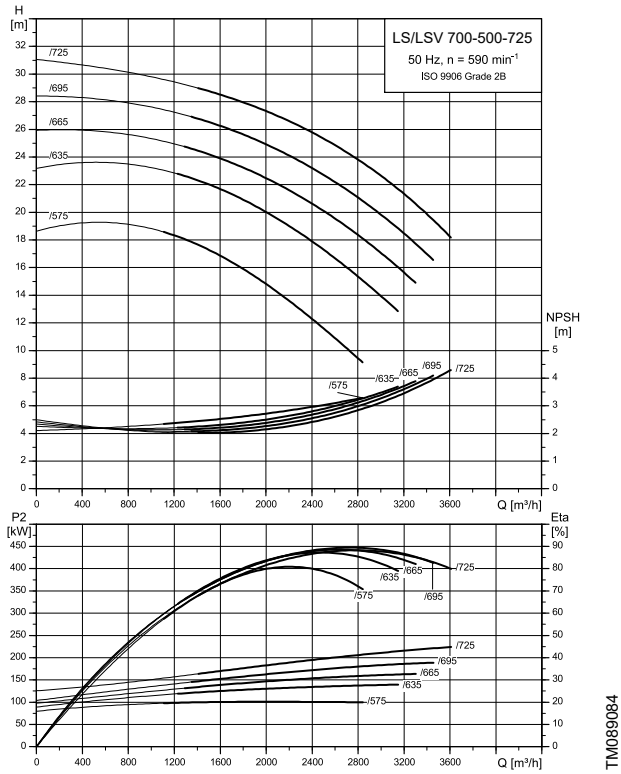

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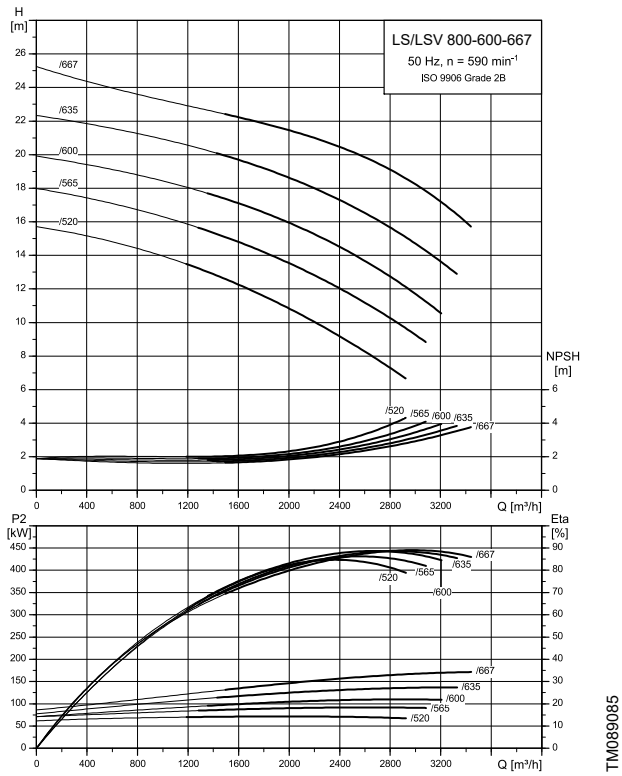

TM089085

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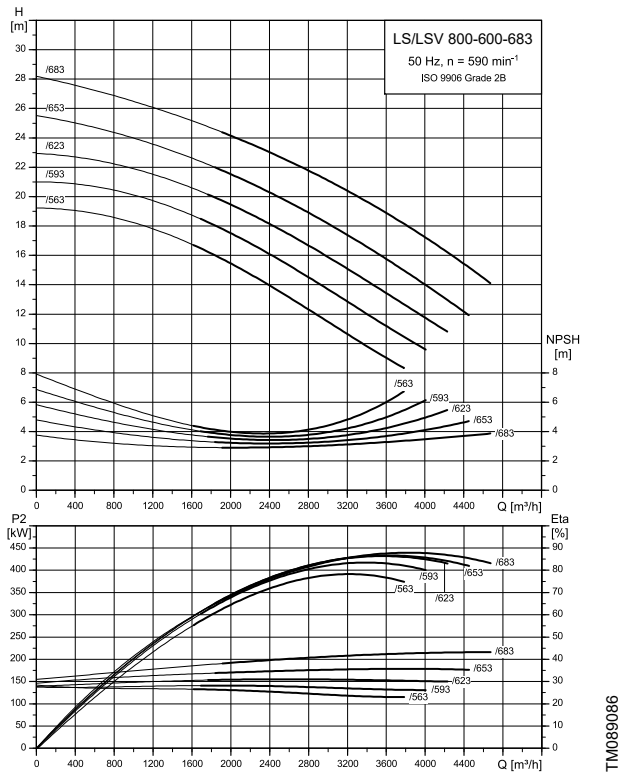
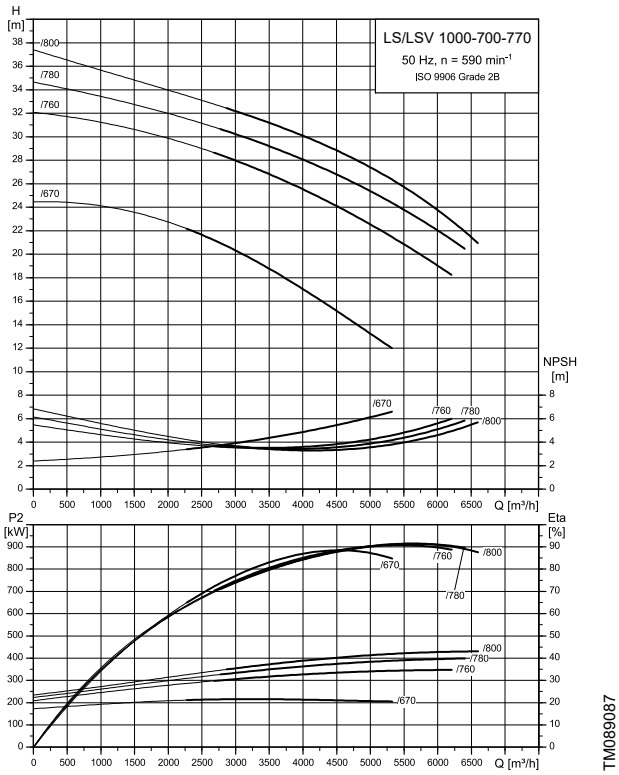


TM089086

LS/LSV 1000-700-770



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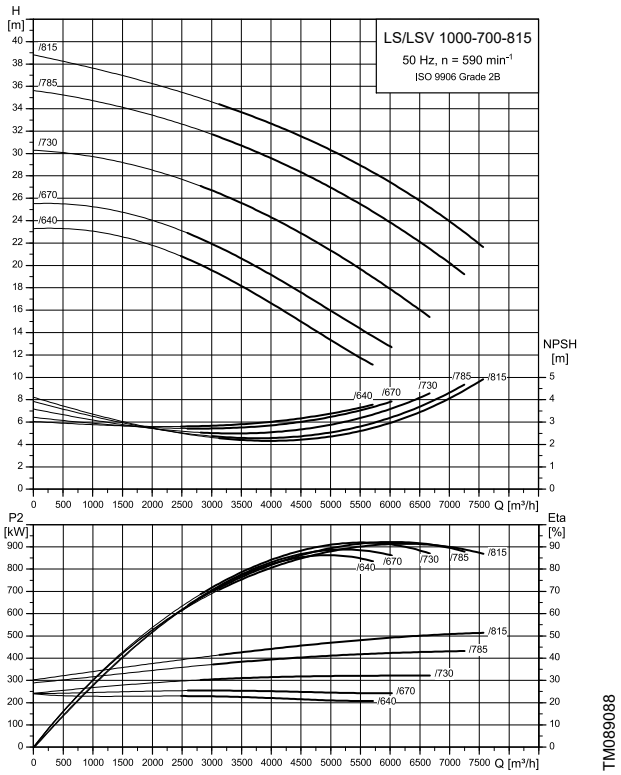
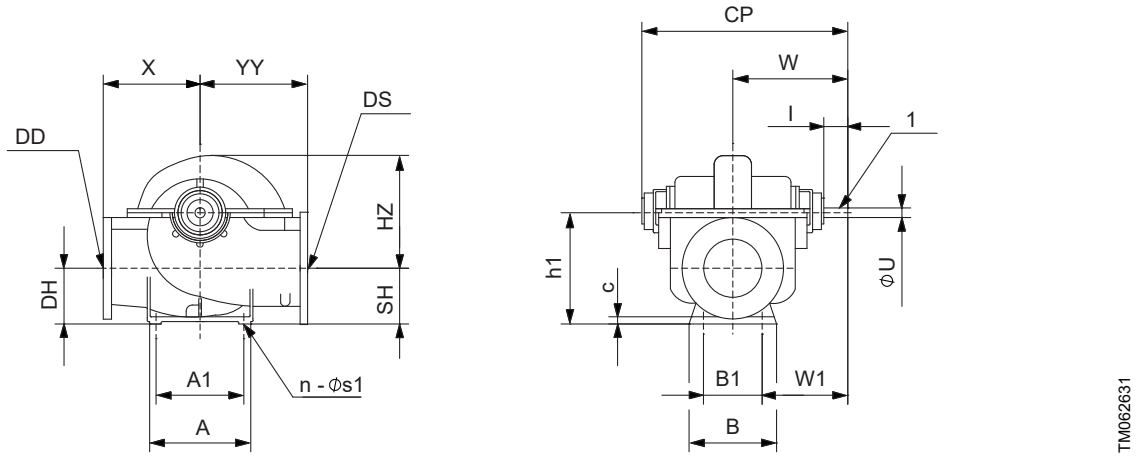
LS/LSV 1000-700-815



TM089088

Dimensional sketches and dimensions

LS dimensional sketch A, clockwise



Pos.	Description
1	Keyway

Dimensions and weights

Pump size	Dimensions [mm]											
	DS [3]	DD [4]	YY	X	HZ	SH	DH	A1	A	CP	W	I
LS 65-50-241	65	50	216	216	311	89	89	260	305	502	305	60
LS 65-50-330	65	50	254	254	397	89	89	260	305	502	305	60
LS 100-80-241	100	80	279	279	330	102	102	260	305	502	305	60
LS 100-80-356	100	80	305	305	422	127	127	260	305	622	368	60
LS 125-100-279	125	100	305	305	410	124	124	260	305	622	368	60
LS 125-100-305	125	100	305	305	410	124	124	260	305	622	368	60
LS 125-100-375	125	100	330	310	410	170	170	260.4	314	622.5	368.3	60
LS 125-100-381	125	100	357	357	508	159	156	260	305	622	368	60
LS 150-125-305	150	125	330	330	448	165	165	260	305	768	419	60
LS 150-125-381	150	125	381	356	527	165	165	260	305	794	432	60
LS 200-150-305	200	150	406	356	502	165	165	260	305	794	432	60
LS 200-150-325	200	150	410	350	445	185	185	260.4	374	923	508	90
LS 200-150-381	200	150	406	381	578	184	184	260	311	922	508	90
LS 200-150-483	200	150	432	432	603	171	171	260	305	902	489	76
LS 200-150-508	200	150	483	432	651	171	171	260	318	994	546	95
LS 250-150-450	250	150	480	400	638	240	290	400	520	1053	591	110
LS 250-150-455	250	150	430	400	570	191	191	260	327	990	546	95
LS 250-200-295	250	200	440	350	480	208	208	260	312	923	508	90
LS 250-200-305	250	200	432	406	549	171	171	260	305	922	508	90
LS 250-200-360	250	200	600	500	573	200	200	400	524	942	518	90
LS 250-200-381	250	200	483	483	629	178	178	260	324	941	518	90
LS 250-200-548	250	200	600	500	743	300	300	700	770	1124	653	140
LS 300-200-450	300	200	550	500	635	230	230	560	700	956	556	102
LS 300-200-460	300	200	620	500	655	215	215	560	714	956	556	102
LS 300-200-489	300	200	559	414	732	198	198	502	648	1298	723	105
LS 300-250-305	300	250	495	495	619	203	203	260	324	967	530	90
LS 300-250-320	300	250	650	500	575	253	253	381	495	1045	600	102
LS 300-250-335	300	250	650	500	575	253	253	381	495	1045	600	102

Pump size	Dimensions [mm]											
	DS [3]	DD [4]	YY	X	HZ	SH	DH	A1	A	CP	W	I
LS 300-250-381	300	250	584	432	629	254	254	381	457	1045	600	102
LS 300-250-437	300	250	540	530	651	240	310	550	670	1058	586	110
LS 350-250-415	350	250	680	500	695	239	239	501.7	654	1387	797	165
LS 350-250-436	350	250	680	500	695	239	239	501.7	654	1387	797	165
LS 350-250-498	350	250	660	508	772	246	246	502	648	1389	797	165
LS 350-250-630	350	250	711	610	806	305	305	502	648	1354	798	160
LS 350-300-352	350	300	560	500	652	260	260	520	680	1361	754	105
LS 350-300-370	350	300	580	460	717	290	300	500	690	1167	643	110
LS 350-300-372	350	300	700	600	695	260	260	520	687	1361	754	105
LS 350-300-425	350	300	570	510	725	300	300	500	690	1260	708	140
LS 350-300-508	350	300	711	584	783	313	313	502	648	1391	749	105
LS 400-300-400	400	300	750	650	725	300	300	610	796	1400	773.6	105
LS 400-350-335	400	350	730	500	670	320	320	610	796	1400	774	105
LS 400-350-345	400	350	730	500	670	320	320	610	796	1400	774	105
LS 450-350-397	450	350	625	545	730	285	285	610	790	1400	773	105
LS 450-350-470	450	350	670	600	800	360	360	680	865	1585	895	165
LS 450-350-505	450	350	670	600	800	360	360	680	865	1585	895	165
LS 500-300-490	500	300	715	605	870	315	315	680	860	1565	885	165
LS 500-300-508	500	300	715	605	870	315	315	680	860	1565	885	165
LS 500-300-680	500	300	780	670	860	385	385	725	905	1585	907	200
LS 500-300-710	500	300	780	670	860	385	385	725	905	1585	907	200
LS 500-350-608	500	350	750	630	925	315	315	680	860	1542	860	170
LS 500-350-702	500	350	785	750	1105	310	310	680	860	1660	920	170
LS 500-400-423	500	400	700	600	890	325	325	680	860	1585	895	165
LS 500-400-435	500	400	750	650	847	333	333	680	877	1565	885	165
LS 500-400-458	500	400	700	600	830	330	330	680	860	1585	895	165
LS 500-400-465	500	400	750	650	847	333	333	680	877	1565	885	165
LS 500-400-498	500	400	715	605	880	315	315	680	860	1565	885	165
LS 500-400-530	500	400	715	605	880	315	315	680	860	1565	885	165
LS 600-400-722	600	400	920	750	1168	365	365	780	960	1841.5	1010	170
LS 600-500-498	600	500	850	750	1065	425	425	700	900	1717	957	165

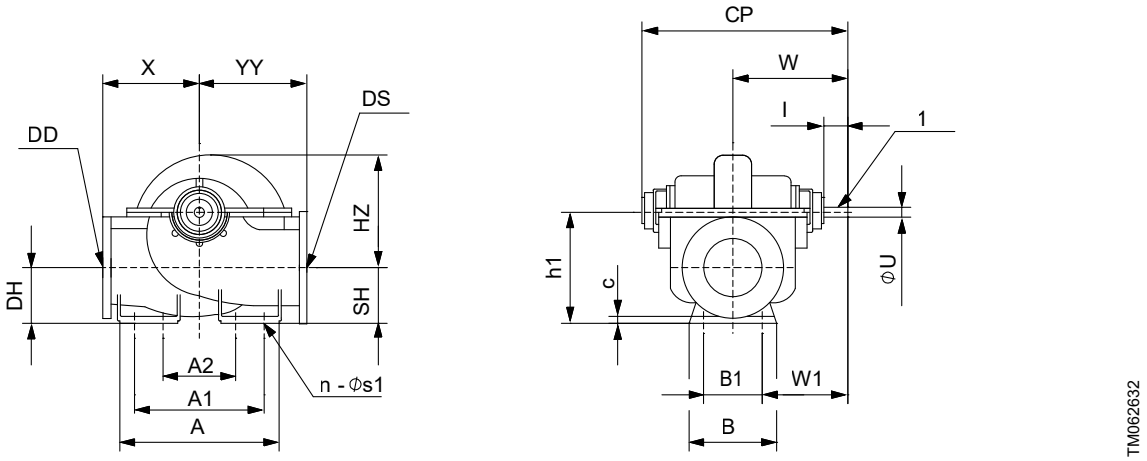
[3] DS: Nominal diameter of inlet port.

[4] DD: Nominal diameter of outlet port.

Pump size	Dimensions [mm]								Weights [kg]
	h1	c	U	B1	W1	B	s1	n	
LS 65-50-241	178	16	24	178	216	222	19	4	73
LS 65-50-330	216	16	24	178	216	222	19	4	91
LS 100-80-241	203	19	24	178	216	222	19	4	97
LS 100-80-356	254	22	34	235	251	279	19	4	172
LS 125-100-279	257	22	34	235	251	283	19	4	185
LS 125-100-305	257	22	34	235	251	283	19	4	185
LS 125-100-375	330	24	34	304.8	216	350	19.1	4	228
LS 125-100-381	330	25	34	305	216	349	19	4	267
LS 150-125-305	368	25	34	260	289	305	19	4	306
LS 150-125-381	410	25	34	260	302	305	19	4	363
LS 200-150-305	406	25	34	260	302	305	19	4	373
LS 200-150-325	385	29	44.45	419.1	298	460	19.1	4	368
LS 200-150-381	464	29	44	419	298	457	19	4	500
LS 200-150-483	432	25	51	305	337	356	19	4	533
LS 200-150-508	451	25	54	305	394	356	19	4	640
LS 250-150-450	450	35	50	350	416	410	28	4	560
LS 250-150-455	451	26	53.975	304.8	394	356	19.1	4	547

Pump size	Dimensions [mm]								Weights [kg]
	h1	c	U	B1	W1	B	s1	n	
LS 250-200-295	438	29	44.45	355.6	330	395	19.1	4	479
LS 250-200-305	438	35	44	356	330	394	19	4	502
LS 250-200-360	483	26	44.45	420	308	496	19.1	4	502
LS 250-200-381	483	29	44	445	295	495	19	4	602
LS 250-200-548	560	30	65	430	438	480	23	4	935
LS 300-200-450	530	40	57	460	326	545	24	4	732
LS 300-200-460	530	40	57.15	460	326	545	24	4	728
LS 300-200-489	528	35	64	406	520	489	28	4	908
LS 300-250-305	503	29	44	445	308	495	19	4	697
LS 300-250-320	508	29	57.15	304.8	448	356	22.2	4	735
LS 300-250-335	508	29	57.15	304.8	448	356	22.2	4	737
LS 300-250-381	508	29	57	305	448	356	22	4	900
LS 300-250-437	510	45	50	450	361	510	28	4	750
LS 350-250-415	584	31	79.38	406.4	594	489	28.6	4	1088
LS 350-250-436	584	31	79.38	406.4	594	489	28.6	4	1083
LS 350-250-498	586	35	79	406	595	489	29	4	1350
LS 350-250-630	635	35	79	406	59	489	29	4	1900
LS 350-300-352	585	33	64	460	524	600	23	4	900
LS 350-300-370	620	45	50	500	393	600	34	4	921
LS 350-300-372	585	35	63.5	460	524	600	23	4	981
LS 350-300-425	620	45	65	500	458	600	34	4	902
LS 350-300-508	643	35	64	406	546	489	29	4	1450
LS 400-300-400	650	36	63.5	575	486	655	33	4	1305
LS 400-350-335	650	36	63.5	575	486	655	33	4	1275
LS 400-350-345	650	36	63.5	575	486	655	33	4	1266
LS 450-350-397	650	35	63.5	575	486	655	33	4	1310
LS 450-350-470	750	32	79.38	600	595	760	33	4	1368
LS 450-350-505	750	32	79.38	600	595	760	33	4	1374
LS 500-300-490	740	35	79.4	650	560	760	33	4	1650
LS 500-300-508	740	35	79.4	650	560	760	33	4	1650
LS 500-300-680	750	35	94	675	570	835	33	4	2300
LS 500-300-710	750	35	94	675	570	835	33	4	2300
LS 500-350-608	740	35	80	650	535	760	33	4	1835
LS 500-350-702	790	35	80	650	595	760	33	4	2110
LS 500-400-423	725	35	79.4	650	570	760	33	4	1637
LS 500-400-435	740	36	79.38	650	560	760	33	4	2097
LS 500-400-458	750	35	79.4	600	595	760	33	4	1830
LS 500-400-465	740	36	79.38	650	560	760	33	4	2100
LS 500-400-498	740	35	79.4	650	560	760	33	4	1725
LS 500-400-530	740	34	79.4	650	560	760	33	4	1725
LS 600-400-722	860	35	95	800	610	920	39	4	3200
LS 600-500-498	900	35	79.4	670	622	770	33	4	2970

LS dimensional sketch B, clockwise



Pos.	Description
1	Keyway

Dimensions and weights

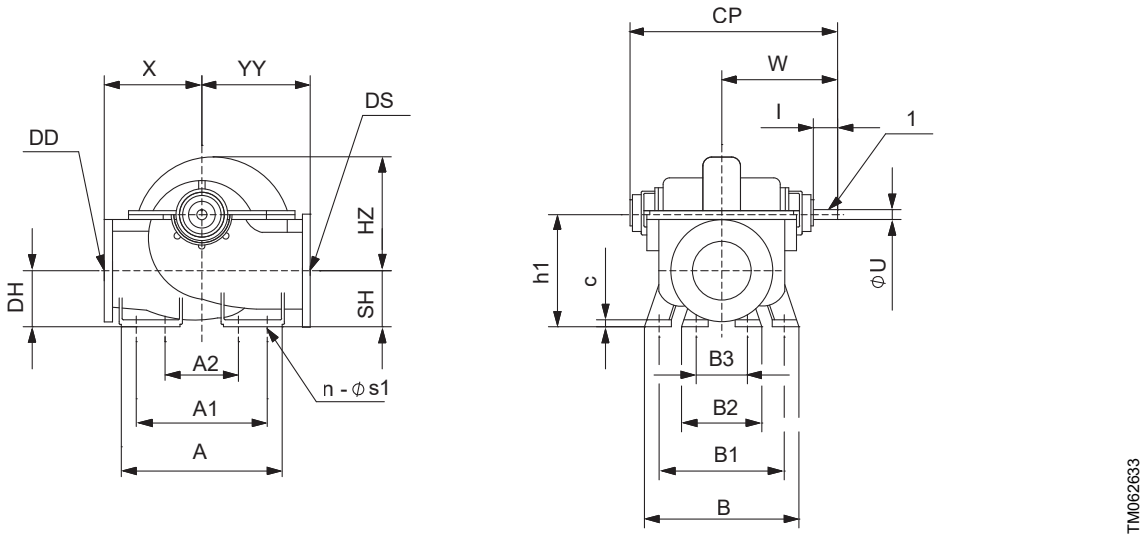
Pump size	Dimensions [mm]											
	DS [5]	DD [6]	YY	X	HZ	SH	DH	AE	A	CP	W	I
LS 600-500-610	600	500	850	800	1179	420	420	720	1135	1795	1010	200
LS 600-450-625	600	450	1000	800	1041	445	445	720	1152	1795	1010	200
LS 700-450-950	700	450	1095	930	1202	470	470	850	1360	2142	1223	250
LS 700-450-1010	700	450	1095	930	1202	470	470	850	1360	2142	1223	250
LS 800-600-683	800	600	1135	900	1340	465	465	850	1393	2095	1160	200
LS 800-600-667	800	600	1135	900	1340	465	465	850	1393	2095	1160	200
LS 1000-700-770	1000	700	1300	1070	1565	585	585	1020	1600	2491	1398	250
LS 1000-700-815	1000	700	1300	1070	1565	585	585	1020	1600	2491	1398	250

5) DS: Nominal diameter of inlet port.

6) DD: Nominal diameter of outlet port.

Pump size	Dimensions [mm]									Weights [kg]
	h1	c	U	B1	W1	B	s1	A1	n	
LS 600-500-610	920	50	100	760	630	886	33	940	8	3300
LS 600-450-625	920	52	100	760	630	886	33	940	8	3089
LS 700-450-950	980	40	129	850	798	1050	33	1200	8	5880
LS 700-450-1010	980	40	129	850	798	1050	33	1200	8	5885
LS 800-600-683	1100	40	100	850	735	1060	33	1200	8	5000
LS 800-600-667	1100	40	100	850	735	1050	33	1200	8	4900
LS 1000-700-770	1335	50	129	1000	898	1200	33	1380	8	6800
LS 1000-700-815	1335	50	129	1000	898	1200	33	1380	8	6800

LS dimensional sketch C, clockwise



Pos.	Description
1	Keyway

Dimensions and weights

Pump size	Dimensions [mm]											
	DS [7]	DD [8]	YY	X	HZ	SH	DH	AE	A	CP	W	I
LS 700-500-585	700	500	950	800	1255	380	380	750	1200	1955	1090	200
LS 700-500-667	700	500	950	800	1255	380	380	750	1200	1955	1090	200
LS 700-500-670	700	500	1050	800	1144	396	396	790	1207	1955	1090	200
LS 700-500-725	700	500	950	800	1255	380	380	750	1200	1955	1090	200
LS 700-500-730	700	500	1050	800	1144	396	396	790	1207	1955	1090	200

7) DS: Nominal diameter of inlet port.

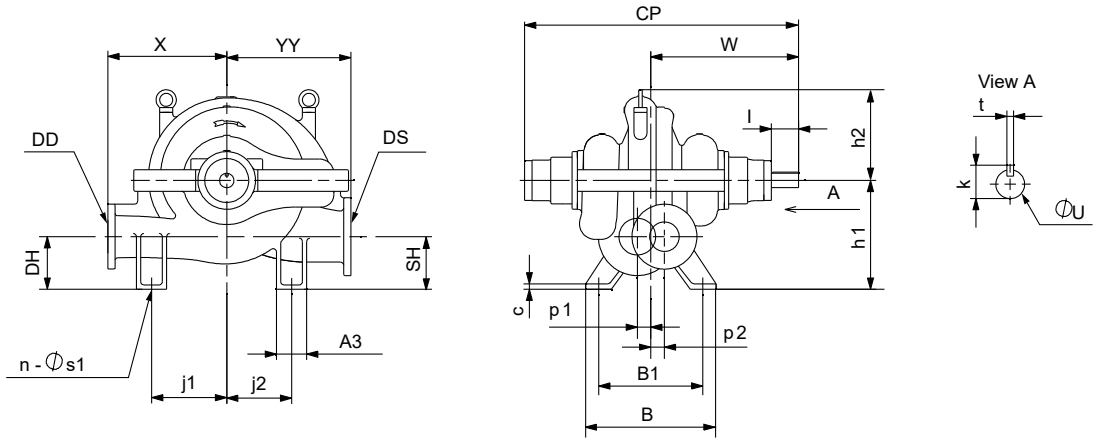
8) DD: Nominal diameter of outlet port.

Pump size	Dimensions [mm]										Weights [kg]
	h1	c	U	B3	B1	B2 [9]	B [10]	s1	A1	n	
LS 700-500-585	940	40	100	560	860	700	1000	33	1050	8	3500
LS 700-500-667	940	40	100	560	860	700	1000	33	1050	8	3500
LS 700-500-670	940	41	100	600	1000	700	1100	33	1040	8	3805
LS 700-500-725	940	40	100	560	860	700	1000	33	150	8	3500
LS 700-500-730	940	41	100	600	1000	700	1100	33	125	8	3771

9) Outlet side

10) inlet side

LSx2 dimensional sketch A, clockwise



Dimensions and weights

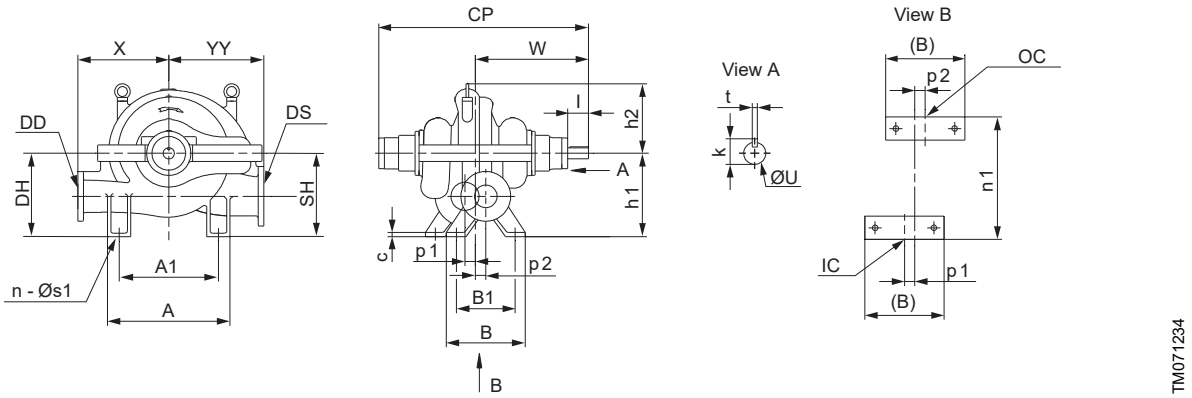
Pump size	Dimensions [mm]											
	DS [11]	DD [12]	X	YY	DH	SH	j2	j1	A3	CP	l	h1
LS 200-150-475 × 2	200	150	550	575	240	240	300	300	140	1142	102	500
LS 250-200-575 × 2	250	200	600	750	290	290	500	350	160	1496	133	600

[11] DS: Nominal diameter of inlet port.

[12] DD: Nominal diameter of outlet port.

Pump size	Dimensions [mm]											Weights [kg]
	h2	t	k	U	c	p1	p2	B	B1	n	s1	
LS 200-150-475 × 2	425	12.7	62.8	57.15	25	65	65	700	460	4	28	980
LS 250-200-575 × 2	540	19.05	87.7	79.38	30	75	75	820	620	4	28	1600

LSx2 dimensional sketch B, clockwise



Pos.	Description
IC	Inlet center
OC	Outlet center

Dimensions and weights

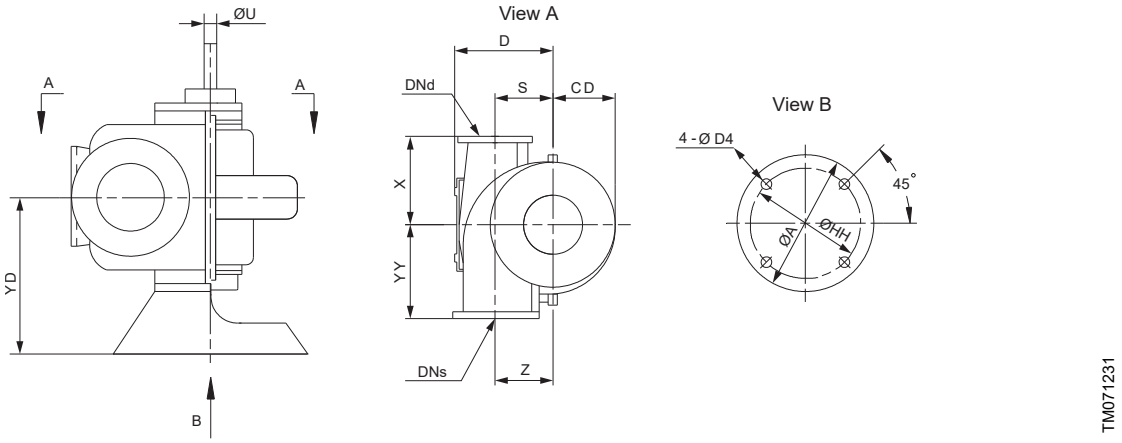
Pump size	Dimensions [mm]											
	DS [13)]	DD [14)]	X	YY	DH	SH	A	A1	CP	l	h1	h2
LS 125-100-370 × 2	125	100	340	350	120	120	520	400	998	95	350	355
LS 150-125-415 × 2	150	125	365	375	150	150	520	400	1059	105	400	382

13) DS: Nominal diameter of inlet port.

14) DD: Nominal diameter of outlet port.

Pump size	Dimensions [mm]										Weights [kg]
	t	k	U	c	p1	p2	B	B1	n	s1	
LS 125-100-370 × 2	9.58	48.6	44.45	20	108	36.5	260	210	4	24	430
LS 150-125-415 × 2	9.85	48.6	44.45	20	100	40	360	300	4	24	478

LSV dimensional sketch 1, clockwise



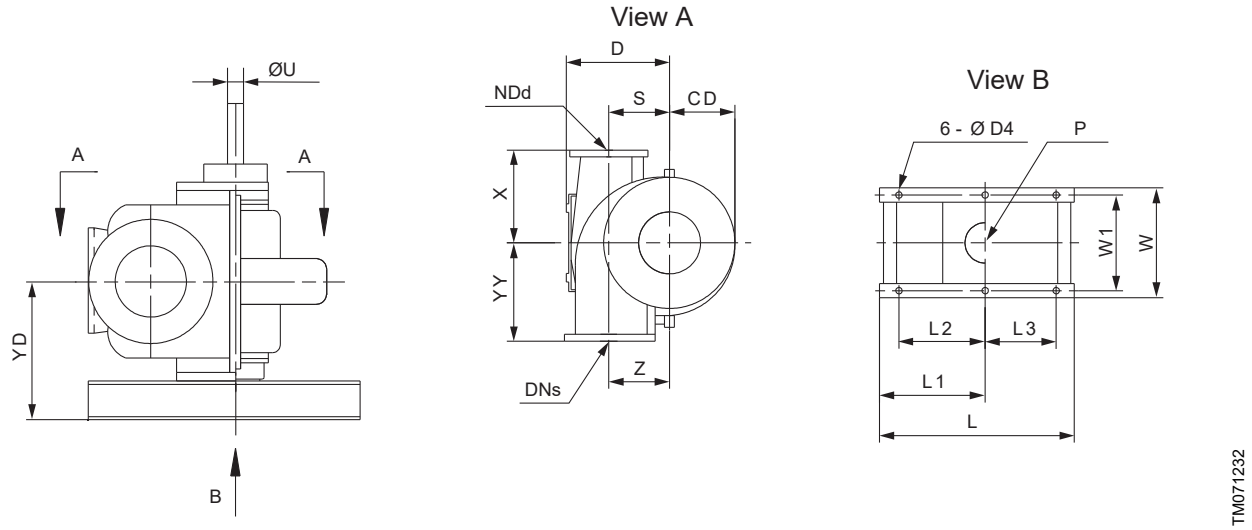
Dimensions

Pump size	Dimensions [mm]												
	DNs [15]	DNd [16]	YY	X	S	Z	D	YD	CD	A	HH	U	D4
LSV 65-50-241	65	50	216	216	89	89	178	298	322	508	457	25.35	19
LSV 65-50-330	65	50	254	254	127	127	216	298	370	508	457	25.35	19
LSV 100-80-241	100	80	279	279	102	102	203	302	329	508	457	25.35	19
LSV 100-80-356	100	80	305	305	127	127	254	333	395	508	457	34.92	19
LSV 125-100-279	125	100	305	305	133	133	257	333	376	508	457	34.92	19
LSV 125-100-305	125	100	305	305	133	133	257	333	306	508	457	34.92	19
LSV 125-100-375	125	100	330	310	160	160	330.2	333	350	508	457.2	34.90	19
LSV 125-100-381	125	100	357	357	171	171	330	333	437	508	457	34.92	19
LSV 150-125-305	150	125	330	330	203	203	368	384	344	508	457	34.92	19
LSV 150-125-381	150	125	381	356	244	244	410	397	383	508	457	34.92	19
LSV 200-150-305	200	150	406	356	241	241	406	397	360	508	457	34.92	19
LSV 200-150-325	200	150	410	350	200	200	385	514	345	711.2	660.4	44.45	19
LSV 200-150-381	200	150	406	381	279	279	464	514	398	711	660	44.44	19
LSV 200-150-483	200	150	432	432	260	260	432	481	443	711	660	47.62	19
LSV 200-150-508	200	150	483	432	279	279	451	447	471	508	457	53.97	19
LSV 250-150-455	250	150	430	400	260	260	450.9	533	410	711.2	660.4	53.98	19
LSV 250-200-295	250	200	440	350	230	230	438.2	514	350	711.2	660.4	44.45	19
LSV 250-200-305	250	200	432	406	267	267	438	514	386	711	660	44.44	19
LSV 250-200-360	250	200	600	500	283	283	482.6	524	390	711.2	660.4	44.45	19
LSV 250-200-381	250	200	483	483	305	305	483	524	424	711	660	44.44	19
LSV 300-200-450	300	200	550	500	300	300	530	527	435	711	660	57.14	19
LSV 300-200-460	300	200	620	500	315	315	530	527	432	711.2	660.4	57.15	19
LSV 300-200-489	300	200	559	414	330	330	529	648	485	813	711	57.14	19
LSV 300-250-305	300	250	495	495	300	300	503	537	421	711	660	44.44	19
LSV 300-250-320	300	250	650	500	255	255	508	603	420	711.2	660.4	57.15	19
LSV 300-250-335	300	250	650	500	255	255	508	603	420	711.2	660.4	57.15	19
LSV 300-250-381	300	250	584	432	254	254	508	603	475	711	660	57.14	19
LSV 350-250-415	350	250	680	500	345	345	584.2	672	450	812.8	711.2	79.38	25
LSV 350-300-372	350	300	700	600	325	325	585	695	470	812.8	711.2	63.50	25
LSV 400-350-335	400	350	730	500	330	330	650	740	440	812.8	711.2	57.15	25

15) DNs: Nominal diameter of inlet port.

16) DNd: Nominal diameter of outlet port.

LSV dimensional sketch 2, clockwise



Pos.	Description
P	Pump center

Dimensions

Pump size	Dimensions [mm]																
	DNs [17]	DNd [18]	YY	X	S	Z	D	YD	CD	W	W1	L	L1	L2	L3	U	D4
LSV 250-150-455	250	150	430	400	260	260	451	504	410	775	600	1030	580	475	375	53.98	24
LSV 250-200-360	250	200	600	500	283	283	483	495	390	775	600	1030	580	475	375	44.45	24
LSV 300-200-460	300	200	620	500	315	315	530	498	432	875	700	1040	590	465	375	57.15	24
LSV 300-250-320	300	250	650	500	255	255	508	574	420	775	600	1050	600	475	375	57.15	24
LSV 300-250-335	300	250	650	500	255	255	508	574	420	775	600	1050	600	475	375	57.15	24
LSV 350-250-415	350	250	680	500	345	345	584	595	450	900	725	1180	640	510	440	79.38	24
LSV 350-250-415	350	250	680	500	345	345	584	595	450	927	860	1220	700	590	410	79.38	27
LSV 350-250-436	350	250	680	500	345	345	584	595	450	900	725	1180	640	510	440	79.38	24
LSV 350-250-436	350	250	680	500	345	345	584	595	450	927	860	1220	700	590	410	79.38	27
LSV 350-250-498	350	250	660	508	340	340	586	595	515	800/927	725/860	1150/1220	610/700	510/590	440/410	79.37	24
LSV 350-250-630	350	250	710	610	330	330	635	584	577	880	810	1240	730	650	440	74.98	24
LSV 350-300-352	350	300	560	500	325	325	585	618	327	800	725	1150	610	510	440	63.49	24
LSV 350-300-372	350	300	700	600	325	325	585	618	470	900	725	1180	640	510	440	63.50	24
LSV 350-300-508	350	300	711	584	330	330	693	634	552	927	860	1235	700	590	410	57.14	24
LSV 400-300-400	400	300	750	650	350	350	650	660	475	1035	865	1220	735	610	410	57.15	24
LSV 400-300-400	400	300	750	650	350	350	650	660	475	1035	865	1260	775	610	410	57.15	24
LSV 400-350-335	400	350	730	500	330	330	650	660	440	1035	865	1220	735	610	410	57.15	24
LSV 400-350-345	400	350	730	500	330	330	650	660	440	1035	865	1220	735	610	410	57.15	24
LSV 450-350-397	450	350	625	545	365	365	650	660	450	935	865	1170	685	610	410	57.13	24
LSV 450-350-470	450	350	670	600	390	390	750	710	500	1200	1030	1455	890	675	445	79.40	24
LSV 450-350-470	450	350	670	600	390	390	750	710	500	1200	1030	1525	880	665	525	79.40	24
LSV 450-350-505	450	350	670	600	390	390	750	710	500	1200	1030	1455	890	675	445	79.40	24
LSV 450-350-505	450	350	670	600	390	390	750	710	500	1200	1030	1525	880	665	525	79.40	24
LSV 500-400-423	500	400	700	600	400	400	725	710	390	1100	1030	1400	835	650	445	79.37	24
LSV 500-400-435	500	400	750	650	407	407	740	715	540	1200	1030	1455	890	675	445	75.00	24
LSV 500-400-435	500	400	750	650	407	407	740	715	540	1200	1030	1525	880	665	525	75.00	24
LSV 500-400-458	500	400	700	600	420	420	750	710	510	1100	1030	1425	860	675	445	79.37	24

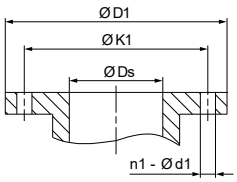
Pump size	Dimensions [mm]																
	DNs [17]	DNd [18]	YY	X	S	Z	D	YD	CD	W	W1	L	L1	L2	L3	U	D4
LSV 500-400-465	500	400	750	650	407	407	740	715	540	1200	1030	1455	890	675	445	75.00	24
LSV 500-400-465	500	400	750	650	407	407	740	715	540	1200	1030	1525	880	665	525	75.00	24
LSV 600-500-498	600	500	850	750	475	475	900	785	506	1230	1160	1690	1055	970	550	74.98	24

17) DNs: Nominal diameter of inlet port.

18) DNd: Nominal diameter of outlet port.

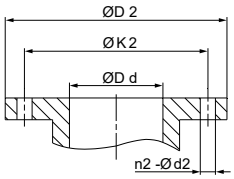
Counterflange dimensions

Dimensional sketches



TM071229

Inlet flange



TM071230

Outlet flange

Dimensions

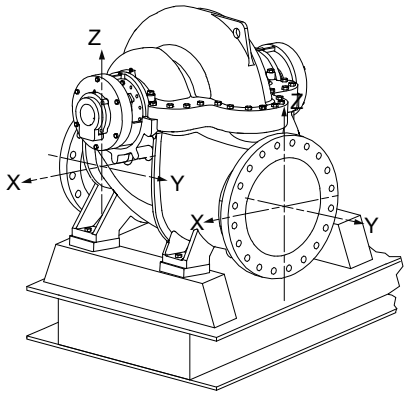
Pump size	Flange stage	Dimensions [mm]									
		Ds	Dd	n1	n2	d1	d2	K1	K2	D1	D2
LS, LSV 65-50-241	PN10	65	50	4	4	19	19	145	125	190.5	165.1
LS, LSV 65-50-241	PN16	65	50	4	4	19	19	145	125	190.5	165.1
LS, LSV 65-50-330	PN10	65	50	4	4	19	19	145	125	190.5	165.1
LS, LSV 65-50-330	PN16	65	50	4	4	19	19	145	125	190.5	165.1
LS, LSV 65-50-330	PN25	65	50	8	4	19	19	145	125	190.5	165.1
LS, LSV 100-80-241	PN10	100	80	8	8	19	19	180	160	254	209.6
LS, LSV 100-80-241	PN16	100	80	8	8	19	19	180	160	254	209.6
LS, LSV 100-80-241	PN25	100	80	8	8	23	19	190	160	254	209.6
LS, LSV 100-80-356	PN10	100	80	8	8	19	19	180	160	254	209.6
LS, LSV 100-80-356	PN16	100	80	8	8	19	19	180	160	254	209.6
LS, LSV 100-80-356	PN25	100	80	8	8	23	19	190	160	254	209.6
LS, LSV 125-100-279	PN10	125	100	8	8	19	19	210	180	279.4	254
LS, LSV 125-100-279	PN16	125	100	8	8	19	19	210	180	279.4	254
LS, LSV 125-100-279	PN25	125	100	8	8	28	23	220	190	279.4	254
LS, LSV 125-100-305	PN10	125	100	8	8	19	19	210	180	279.4	254
LS, LSV 125-100-305	PN16	125	100	8	8	19	19	210	180	279.4	254
LS, LSV 125-100-305	PN25	125	100	8	8	28	23	220	190	279.4	254
LS, LSV 125-100-370×2	PN16	125	100	8	8	19	19	210	180	250	220
LS, LSV 125-100-370×2	PN25	125	100	8	8	28	23	220	190	250	220
LS, LSV 125-100-375	PN 10	125	100	8	8	19	19	210	180	250	220
LS, LSV 125-100-375	PN 16	125	100	8	8	19	19	210	180	250	220
LS, LSV 125-100-381	PN10	125	100	8	8	19	19	210	180	279.4	254
LS, LSV 125-100-381	PN16	125	100	8	8	19	19	210	180	279.4	254
LS, LSV 125-100-381	PN25	125	100	8	8	28	23	220	190	279.4	254
LS, LSV 150-125-305	PN10	150	125	8	8	23	19	240	210	317.5	279
LS, LSV 150-125-305	PN16	150	125	8	8	23	19	240	210	317.5	279
LS, LSV 150-125-305	PN25	150	125	8	8	28	28	250	220	317.5	279
LS, LSV 150-125-381	PN10	150	125	8	8	23	19	240	210	317.5	279
LS, LSV 150-125-381	PN16	150	125	8	8	23	19	240	210	317.5	279
LS, LSV 150-125-381	PN25	150	125	8	8	28	28	250	220	317.5	279
LS, LSV 150-125-415×2	PN16	150	125	8	8	23	19	240	210	285	250
LS, LSV 150-125-415×2	PN25	150	125	8	8	28	28	250	220	300	270
LS, LSV 200-150-305	PN10	200	150	8	8	23	23	295	240	381	317.5
LS, LSV 200-150-305	PN16	200	150	12	8	23	23	295	240	381	317.5
LS, LSV 200-150-305	PN25	200	150	12	8	28	28	310	250	381	317.5
LS, LSV 200-150-325	PN 10	200	150	8	8	23	23	295	240	345	285
LS, LSV 200-150-325	PN 16	200	150	12	8	23	23	295	240	345	285
LS, LSV 200-150-381	PN10	200	150	8	8	23	23	295	240	381	317.5

Pump size	Flange stage	Dimensions [mm]									
		Ds	Dd	n1	n2	d1	d2	K1	K2	D1	D2
LS, LSV 200-150-381	PN16	200	150	12	8	23	23	295	240	381	317.5
LS, LSV 200-150-381	PN25	200	150	12	8	28	28	310	250	381	317.5
LS, LSV 200-150-475×2	PN16	200	150	12	8	23	23	295	240	360	300
LS, LSV 200-150-475×2	PN25	200	150	12	8	28	28	310	250	360	300
LS, LSV 200-150-483	PN10	200	150	8	8	23	23	295	240	381	317.5
LS, LSV 200-150-483	PN16	200	150	12	8	23	23	295	240	381	317.5
LS, LSV 200-150-483	PN25	200	150	12	8	28	28	310	250	381	317.5
LS, LSV 200-150-483	PN10	200	150	8	8	23	23	295	240	381	317.5
LS, LSV 200-150-483	PN16	200	150	12	8	23	23	295	240	381	317.5
LS, LSV 200-150-483	PN25	200	150	12	8	28	28	310	250	381	317.5
LS, LSV 200-150-508	PN10	200	150	8	8	23	23	295	240	381	317.5
LS, LSV 200-150-508	PN16	200	150	12	8	23	23	295	240	381	317.5
LS, LSV 200-150-508	PN25	200	150	12	8	28	28	310	250	381	317.5
LS, LSV 250-150-450	PN10	250	150	12	8	23	23	350	240	395	285
LS, LSV 250-150-450	PN16	250	150	12	8	28	23	355	240	405	285
LS, LSV 250-150-455	PN 10	250	150	12	8	23	23	350	240	405	285
LS, LSV 250-150-455	PN 16	250	150	12	8	28	23	355	240	405	285
LS, LSV 250-200-295	PN 10	250	200	12	8	23	23	350	295	405	340
LS, LSV 250-200-295	PN 16	250	200	12	12	28	23	355	295	405	340
LS, LSV 250-200-305	PN10	250	200	12	8	23	23	350	295	444.5	381
LS, LSV 250-200-305	PN16	250	200	12	12	28	23	355	295	444.5	381
LS, LSV 250-200-305	PN25	250	200	12	12	31	28	370	310	444.5	381
LS, LSV 250-200-360	PN 10	250	200	12	8	23	23	350	295	405	340
LS, LSV 250-200-360	PN 16	250	200	12	12	28	23	355	295	405	340
LS, LSV 250-200-381	PN10	250	200	12	8	23	23	350	295	406.4	342.9
LS, LSV 250-200-381	PN16	250	200	12	12	28	23	355	295	406.4	342.9
LS, LSV 250-200-381	PN25	250	200	12	12	31	28	370	310	444.5	381
LS, LSV 250-200-548	PN10	250	200	12	8	23	23	350	295	395	340
LS, LSV 250-200-548	PN16	250	200	12	12	28	23	355	295	395	340
LS, LSV 250-200-575×2	PN16	250	200	12	12	28	23	355	295	425	360
LS, LSV 250-200-575×2	PN25	250	200	12	12	31	28	370	310	425	360
LS, LSV 300-200-450	PN10	300	200	12	8	23	23	400	295	520.1	381
LS, LSV 300-200-450	PN16	300	200	12	12	28	23	410	295	520.1	381
LS, LSV 300-200-450	PN25	300	200	16	12	31	28	430	310	520.1	381
LS, LSV 300-200-460	PN 10	300	200	12	8	23	23	400	295	460	340
LS, LSV 300-200-460	PN 16	300	200	12	12	28	23	410	295	460	340
LS, LSV 300-200-489	PN10	300	200	12	8	23	23	400	295	520.7	381
LS, LSV 300-200-489	PN16	300	200	12	12	28	23	410	295	520.7	381
LS, LSV 300-200-489	PN25	300	200	16	12	31	28	430	310	520.7	381
LS, LSV 300-250-305	PN10	300	250	12	12	23	23	400	350	520.7	444.5
LS, LSV 300-250-305	PN16	300	250	12	12	28	28	410	355	520.7	444.5
LS, LSV 300-250-305	PN25	300	250	16	12	31	31	430	370	520.7	444.5
LS, LSV 300-250-320	PN 10	300	250	12	12	23	23	400	350	460	400
LS, LSV 300-250-320	PN 16	300	250	12	12	28	28	410	355	460	400
LS, LSV 300-250-335	PN 10	300	250	12	12	23	23	400	350	460	400
LS, LSV 300-250-335	PN 16	300	250	12	12	28	28	410	355	460	400
LS, LSV 300-250-381	PN10	300	250	12	12	23	23	400	350	520.7	444.5
LS, LSV 300-250-381	PN16	300	250	12	12	28	28	410	355	520.7	444.5
LS, LSV 300-250-381	PN25	300	250	16	12	31	31	430	370	520.7	444.5
LS, LSV 300-250-437	PN10	300	250	12	12	28	28	400	350	445	395
LS, LSV 300-250-437	PN16	300	250	12	12	28	28	410	355	460	405
LS, LSV 350-250-415	PN 10	350	250	16	12	23	23	460	350	520	405
LS, LSV 350-250-415	PN 16	350	250	16	12	28	28	470	355	520	405
LS, LSV 350-250-436	PN 10	350	250	16	12	23	23	460	350	520	405

Pump size	Flange stage	Dimensions [mm]									
		Ds	Dd	n1	n2	d1	d2	K1	K2	D1	D2
LS, LSV 350-250-436	PN 16	350	250	16	12	28	28	470	355	520	405
LS, LSV 350-250-498	PN10	350	250	16	12	23	23	460	350	584.2	444.5
LS, LSV 350-250-498	PN16	350	250	16	12	28	28	470	355	584.2	444.5
LS, LSV 350-250-498	PN25	350	250	16	12	34	31	490	370	584.2	444.5
LS, LSV 350-250-630	PN10	350	250	16	12	23	23	460	350	584.2	444.5
LS, LSV 350-250-630	PN16	350	250	16	12	28	28	470	355	584.2	444.5
LS, LSV 350-250-630	PN25	350	250	16	12	34	31	490	370	584.2	444.5
LS, LSV 350-300-352	PN10	350	300	16	12	23	23	460	400	533	483
LS, LSV 350-300-352	PN16	350	300	16	12	28	28	470	410	533	483
LS, LSV 350-300-352	PN25	350	300	16	16	34	31	490	430	584	520
LS, LSV 350-300-370	PN10	350	300	16	12	23	23	460	400	505	445
LS, LSV 350-300-370	PN16	350	300	16	12	28	28	470	410	520	460
LS, LSV 350-300-372	PN 10	350	300	16	12	23	23	460	400	520	460
LS, LSV 350-300-372	PN 16	350	300	16	12	28	28	470	410	520	460
LS, LSV 350-300-425	PN10	350	300	16	12	23	23	460	400	505	445
LS, LSV 350-300-425	PN16	350	300	16	12	28	28	470	410	520	460
LS, LSV 350-300-508	PN10	350	300	16	12	23	23	460	400	584.2	520.7
LS, LSV 350-300-508	PN16	350	300	16	12	28	28	470	410	584.2	520.7
LS, LSV 350-300-508	PN25	350	300	16	16	34	31	490	430	584.2	520.7
LS, LSV 350-300-508	PN10	350	300	16	12	23	23	460	400	584.2	520.7
LS, LSV 350-300-508	PN16	350	300	16	12	28	28	470	410	584.2	520.7
LS, LSV 350-300-508	PN25	350	300	16	16	34	31	490	430	584.2	520.7
LS, LSV 400-300-400	PN 10	400	300	16	12	28	23	515	400	580	460
LS, LSV 400-300-400	PN 16	400	300	16	12	31	28	525	410	580	460
LS, LSV 400-350-335	PN 10	400	350	16	16	28	23	515	460	580	520
LS, LSV 400-350-335	PN 16	400	350	16	16	31	28	525	470	580	520
LS, LSV 400-350-345	PN 10	400	350	16	16	28	23	515	460	580	520
LS, LSV 400-350-345	PN 16	400	350	16	16	31	28	525	470	580	520
LS, LSV 450-350-397	PN10	450	350	20	16	28	23	565	460	640	535
LS, LSV 450-350-397	PN16	450	350	20	16	31	28	585	470	640	535
LS, LSV 450-350-397	PN25	450	350	20	16	37	34	600	490	710	585
LS, LSV 450-350-470	PN 10	450	350	20	16	28	23	565	460	640	520
LS, LSV 450-350-470	PN 16	450	350	20	16	31	28	585	470	640	520
LS, LSV 450-350-505	PN 10	450	350	20	16	28	23	565	460	640	520
LS, LSV 450-350-505	PN 16	450	350	20	16	31	28	585	470	640	520
LS, LSV 500-300-490	PN10	500	300	20	12	28	23	620	400	670	445
LS, LSV 500-300-490	PN16	500	300	20	12	34	28	650	410	715	460
LS, LSV 500-300-508	PN10	500	300	20	12	28	23	620	400	670	445
LS, LSV 500-300-508	PN16	500	300	20	12	34	28	650	410	715	460
LS, LSV 500-300-680	PN10	500	300	20	12	28	23	620	400	715	460
LS, LSV 500-300-680	PN16	500	300	20	12	34	28	650	410	715	460
LS, LSV 500-300-680	PN25	500	300	20	16	37	31	660	430	730	485
LS, LSV 500-300-710	PN10	500	300	20	12	28	23	620	400	715	460
LS, LSV 500-300-710	PN16	500	300	20	12	34	28	650	410	715	460
LS, LSV 500-300-710	PN25	500	300	20	16	37	31	660	430	730	485
LS, LSV 500-350-608	PN10	500	350	20	16	28	23	620	460	670	505
LS, LSV 500-350-608	PN16	500	350	20	16	34	28	650	470	715	520
LS, LSV 500-350-702	PN10	500	350	20	16	28	23	620	460	670	505
LS, LSV 500-350-702	PN16	500	350	20	16	34	28	650	470	715	520
LS, LSV 500-400-423	PN10	500	400	20	16	28	28	620	515	715	580
LS, LSV 500-400-423	PN16	500	400	20	16	34	31	650	525	715	580
LS, LSV 500-400-423	PN25	500	400	20	16	37	37	660	550	730	620
LS, LSV 500-400-435	PN 10	500	400	20	16	28	28	620	515	670	565
LS, LSV 500-400-435	PN 16	500	400	20	16	34	31	650	525	715	580

Pump size	Flange stage	Dimensions [mm]									
		Ds	Dd	n1	n2	d1	d2	K1	K2	D1	D2
LS, LSV 500-400-458	PN10	500	400	20	16	28	28	620	515	715	580
LS, LSV 500-400-458	PN16	500	400	20	16	34	31	650	525	715	580
LS, LSV 500-400-465	PN 10	500	400	20	16	28	28	620	515	670	565
LS, LSV 500-400-465	PN 16	500	400	20	16	34	31	650	525	715	580
LS, LSV 500-400-498	PN10	500	400	20	16	28	28	620	515	715	597
LS, LSV 500-400-498	PN16	500	400	20	16	34	31	650	525	715	597
LS, LSV 500-400-498	PN25	500	400	20	16	37	37	660	550	775	648
LS, LSV 500-400-530	PN10	500	400	20	16	28	28	620	515	715	597
LS, LSV 500-400-530	PN16	500	400	20	16	34	31	650	525	715	597
LS, LSV 500-400-530	PN25	500	400	20	16	37	37	660	550	775	648
LS, LSV 600-400-722	PN10	600	400	20	16	31	28	725	515	780	565
LS, LSV 600-400-722	PN16	600	400	20	16	37	31	770	525	840	580
LS 600-450-625	PN 16	600	450	20	20	36	30	770	585	845	670
LS 600-450-625	PN 25	600	450	20	20	39	36	770	600	845	670
LS, LSV 600-500-498	PN10	600	500	20	20	31	28	725	620	840	715
LS, LSV 600-500-498	PN16	600	500	20	20	37	34	770	650	840	715
LS, LSV 600-500-498	PN25	600	500	20	20	40	37	770	660	915	775
LS, LSV 600-500-610	PN10	600	500	20	20	31	28	725	620	840	715
LS, LSV 600-500-610	PN16	600	500	20	20	37	34	770	650	840	715
LS, LSV 600-500-610	PN25	600	500	20	20	40	37	770	660	845	730
LS, LSV 700-450-1010	PN16	700	450	24	20	37	31	840	585	910	640
LS, LSV 700-450-1010	PN25	700	450	24	20	43	37	875	600	960	670
LS, LSV 700-450-950	PN16	700	450	24	20	37	31	840	585	910	640
LS, LSV 700-450-950	PN25	700	450	24	20	43	37	875	600	960	670
LS, LSV 700-500-585	PN10	700	500	24	20	31	28	840	620	920	715
LS, LSV 700-500-585	PN16	700	500	24	20	37	34	840	650	920	715
LS, LSV 700-500-585	PN25	700	500	24	20	43	37	875	660	960	730
LS, LSV 700-500-667	PN10	700	500	24	20	31	28	840	620	920	715
LS, LSV 700-500-667	PN16	700	500	24	20	37	34	840	650	920	715
LS, LSV 700-500-667	PN25	700	500	24	20	43	37	875	660	960	730
LS 700-500-670	PN 16	700	500	24	20	36	33	840	650	960	730
LS, LSV 700-500-725	PN10	700	500	24	20	31	28	840	620	920	715
LS, LSV 700-500-725	PN16	700	500	24	20	37	34	840	650	920	715
LS, LSV 700-500-725	PN25	700	500	24	20	43	37	875	660	960	730
LS 700-500-730	PN 16	700	500	24	20	36	33	840	650	960	730
LS 700-500-670	PN 25	700	500	24	20	42	36	875	660	960	730
LS 700-500-730	PN 25	700	500	24	20	42	36	875	660	960	730
LS, LSV 800-600-667	PN10	800	600	24	20	34	31	950	725	1025	840
LS, LSV 800-600-667	PN16	800	600	24	20	40	37	950	770	1060	840
LS, LSV 800-600-683	PN10	800	600	24	20	34	31	950	725	1025	840
LS, LSV 800-600-683	PN16	800	600	24	20	40	37	950	770	1060	840
LS, LSV 1000-700-770	PN10	1000	700	28	24	37	31	1160	840	1255	910
LS, LSV 1000-700-770	PN16	1000	700	28	24	43	37	1170	840	1255	910
LS, LSV 1000-700-815	PN10	1000	700	28	24	37	31	1160	840	1255	910
LS, LSV 1000-700-815	PN16	1000	700	28	24	43	37	1170	840	1255	910

Flange forces and torques



TM066281

Horizontal/vertical pump, side branch, y-axis

Casting material	Diameter DN	Force [N]				Torque [Nm]			
		Fy	Fz	Fx	ΣF	My	Mz	Mx	ΣM
Cast iron	50	647	530	589	1020	294	338	412	603
Cast iron	65	840	676	747	1312	406	469	573	843
Cast iron	80	981	804	883	1550	338	383	471	692
Cast iron	100	1315	1059	1177	2060	368	427	515	765
Cast iron	125	1623	1311	1453	2542	430	497	609	892
Cast iron	150	1962	1589	1766	3080	515	603	736	1074
Cast iron	200	2629	2119	2354	4101	677	780	956	1413
Cast iron	250	3277	2649	2923	5121	927	1074	1310	1928
Cast iron	300	3924	3159	3512	6141	1265	1457	1781	2619
Cast iron	350	4571	3689	4101	7161	1619	1869	2855	4208
Cast iron	400	5219	4218	4689	8182	2031	2340	2855	4208
Cast iron	450	5866	4748	5278	9202	2502	2884	3517	5180
Cast iron	500	6514	5278	5866	10222	3017	3473	4253	6269
Cast iron	550	7161	5808	6455	11242	3590	4135	5033	7446
Cast iron	600	7809	6337	7044	12263	4238	4885	5945	8800
Cast iron	700	9131	7396	8222	14327	5673	6533	7952	11775
Cast iron	800	10437	8455	9400	16376	7331	8441	10270	15220
Cast iron	900	11743	9513	10577	18426	9211	10603	12896	19124
Cast iron	1000	13048	10571	11754	20475	11312	13019	15830	23489
Cast iron	1200	15660	12688	14109	24574	16177	18616	22623	33597
Cast steel	50	1619	1324	1472	2551	981	1128	1373	2011
Cast steel	65	2100	1690	1867	3280	1015	1173	1432	2108
Cast steel	80	2453	2011	2207	3875	1128	1275	1570	2305
Cast steel	100	3286	2649	2943	5150	1226	1422	1717	2551
Cast steel	125	4058	3278	3633	6355	1433	1657	2029	2973
Cast steel	150	4905	3973	4415	7701	1717	2011	2453	3581
Cast steel	200	6573	5297	5886	10251	2256	2600	3188	4709
Cast steel	250	8191	6622	7308	12802	3090	3581	4365	6426
Cast steel	300	9810	7897	8780	15353	4218	4856	5935	8731
Cast steel	350	11429	9221	10251	17903	5396	6229	7603	11183
Cast steel	400	13047	10546	11723	20454	6769	7799	9516	14028
Cast steel	450	14666	11870	13194	23004	8339	9614	11723	17266
Cast steel	500	16285	13194	14666	25555	10055	11576	14175	20895
Cast steel	550	17903	14519	16137	28106	11968	13783	16775	24819
Cast steel	600	19522	15843	17609	30656	14126	16285	19816	29332
Cast steel	700	22828	18491	20556	35816	18909	21776	26508	39250
Cast steel	800	26092	21137	23499	40940	24437	28135	34233	50733

Casting material	Diameter DN	Force [N]				Torque [Nm]			
		Fy	Fz	Fx	ΣF	My	Mz	Mx	ΣM
Cast steel	900	29356	23782	26442	46064	30702	35343	42986	63748
Cast steel	1000	32621	26428	29385	51188	37705	43398	52766	78296
Cast steel	1200	39149	31720	35272	61435	53923	62052	75409	111991

11. Accessories

Cyclone separator

TM063346

Cyclone separator

General information

Cyclone separators are used to clean mainly aqueous liquids containing dirt and solids. The best possible filtration efficiency is achieved when the specific gravity of the solids is much higher than that of the carrier liquid, and when the differential pressure is as large as possible within the permissible pressure range (minimum 1.7 bar). The viscosity of the pumped liquid is also a factor that needs to be taken into account.

Note: The cyclone separator can separate particles, but not suspended solids.

12. Further product information

Grundfos pump selector

Grundfos Pump Selector offers a sizing program to select the most suitable pump for your application. It is available in a disk version. The software is divided into two sections:

All select

The section contains the following:

- technical data
- curves (duty point curve, multi-speed curve, parallel pump curve and system curve, etc.).

Outline

- Complete pump drawing
- bare-shaft pump drawing.

For more information about Grundfos pump selector, please contact your local Grundfos company.

13. Service parts

Some of the components in LS pumps are quick-wear parts, and you can purchase these parts for pump maintenance.

1 × impeller

2 × mechanical shaft seal

2 × bearing

2 × wear ring.

If you want to purchase spare parts for pump maintenance, please contact your local Grundfos company.

14. Grundfos Product Center

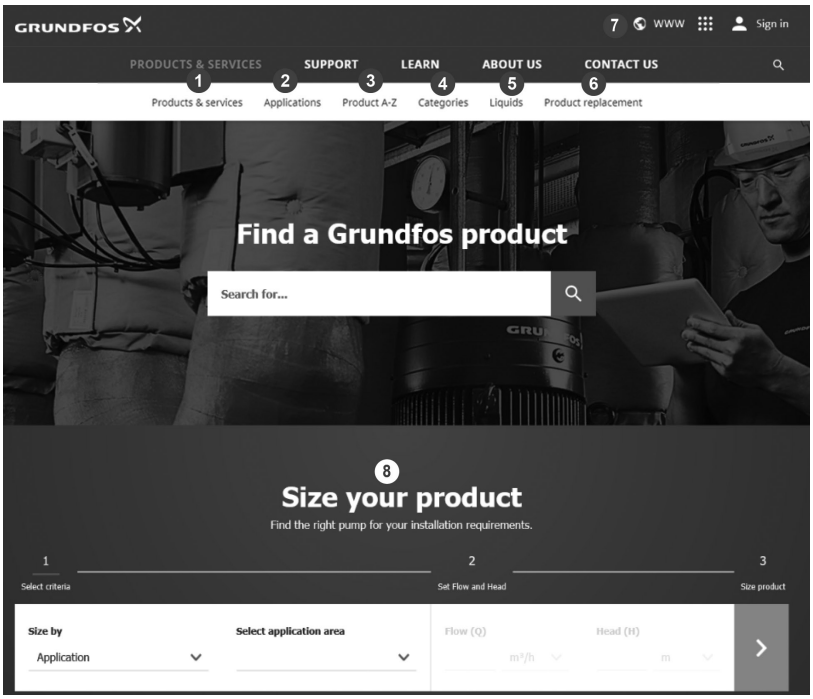
Online search and sizing tool to help you make the right choice.
From the international view, you can select your specific country to view the product range available to you.
International view: *https://product-selection.grundfos.com*

All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc., in PDF format.



When you select your country, you will see the menus below. Note that some menus may not be available depending on the country.
Example: *https://product-selection.grundfos.com/uk*

Pos.	Description
1	**Products & services** enables you to find products and documents by typing a product number or name into the search field.
2	**Applications** enables you to choose an application to see how Grundfos can help you design and optimise your system.
3	**Products A-Z** enables you to look through a list of all the Grundfos products.
4	**Categories** enables you to look for a product category.
5	**Liquids** enables you to find pumps designed for aggressive, flammable or other special liquids.
6	**Product replacement** enables you to find a suitable replacement.
7	**WWW** enables you to select the country, which changes the language, the available product range and the structure of the website.
8	**Sizing** enables you to size a product based on your application and operating conditions.

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