



Horizontal Split Case Pumps
✓ **ESC Series**

ESC series horizontal split case pumps with high efficiency and durability offer high performance in high flow applications. It has double suction which reduces axial force at suction. Discharge and suction flanges are on the same axis. The pump consists of two parts, top and bottom and is connected to each other by bolts. Without disconnecting the pump from the pipe installation these bolts can be removed and repair and maintenance operations can be done easily.

Areas of Usage

- Water Supply, Treatment and Pressurization
- Fire Fighting
- Agricultural Irrigation and Drainage
- HVAC
- Industrial facilities
- Mining
- Marine and Ship Applications

Pump Specifications

- Pump Body : GG25 Cast Iron
- Pump Shaft : AISI420 Stainless Steel
- Impeller : Bronze
- Sealing Type : Mechanical Seal (ops. Soft Packing)

Technical Specifications

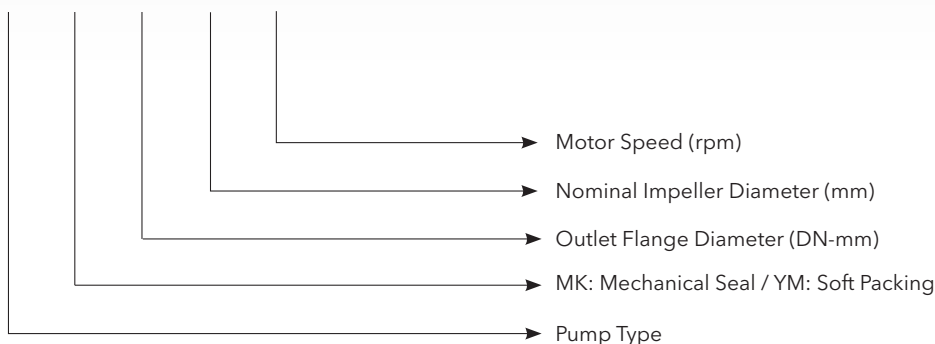
- Max. Flow Rate : 1250 m³/h
- Max. Discharge Head : 225 mwc
- Flange : DIN 2501
- Connection : DN80 - DN200
- Max. Operating Pressure : 25 Bar
- Max. Ambient Temp. : 40°C
- Temp. of Pumped Liquid : 0 - 105°C
- Fluid Quality : Clean, solid abrasive particle-free, non-hard chemically neutral water

Motor Specifications

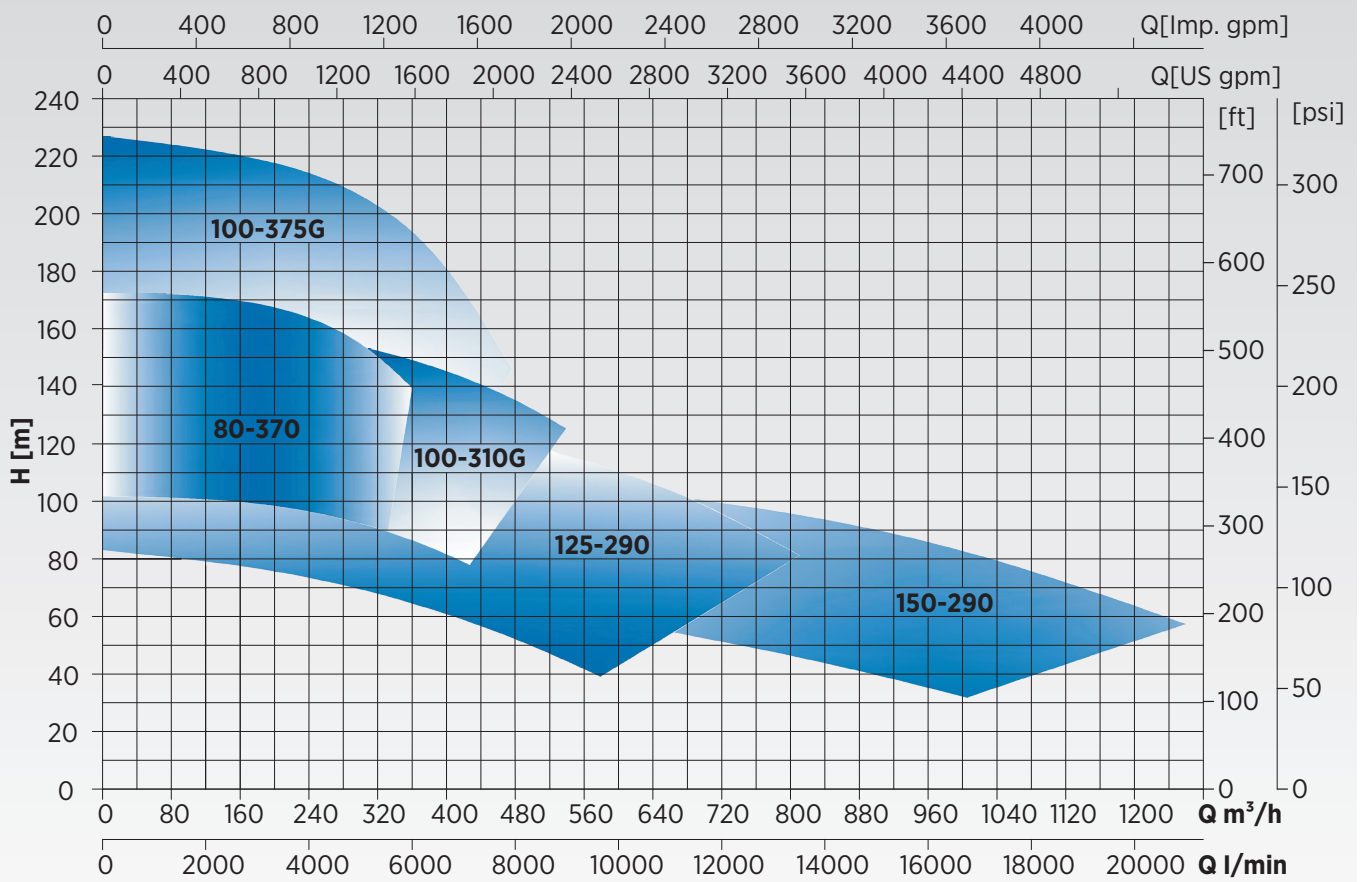
- Network Connection : 3*400V, 50Hz
- Motor Speed : 2900 rpm
- Motor Power : 90 - 315 kW
- Motor Efficiency : IE2
- Protection Class : IP55
- Insulation Class : F

Pump Identification Code

ESC MK 125 290 2900

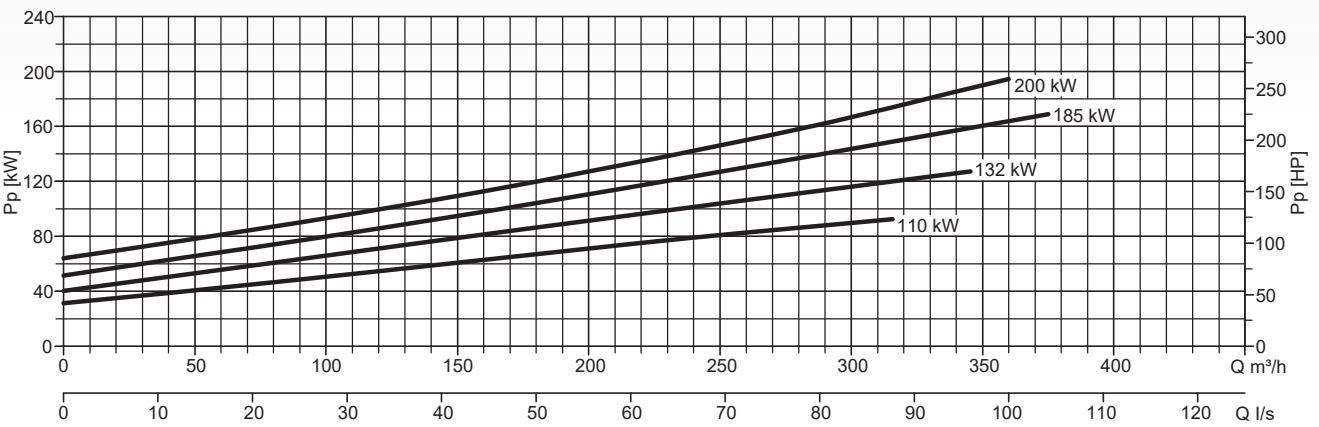
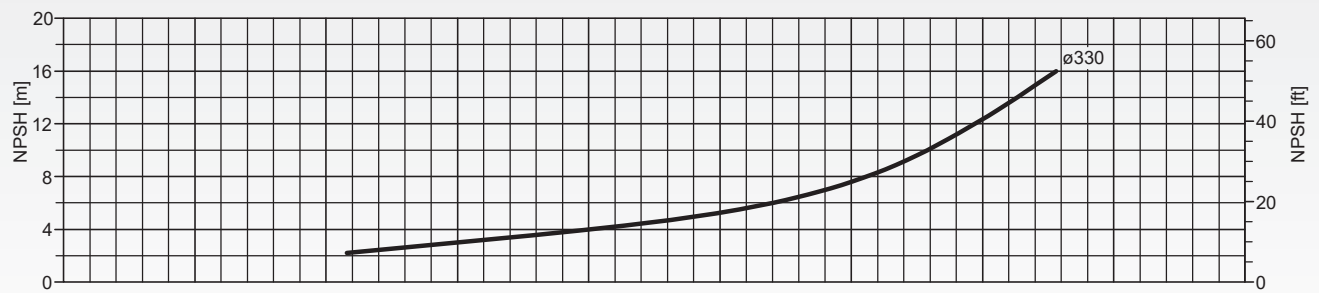
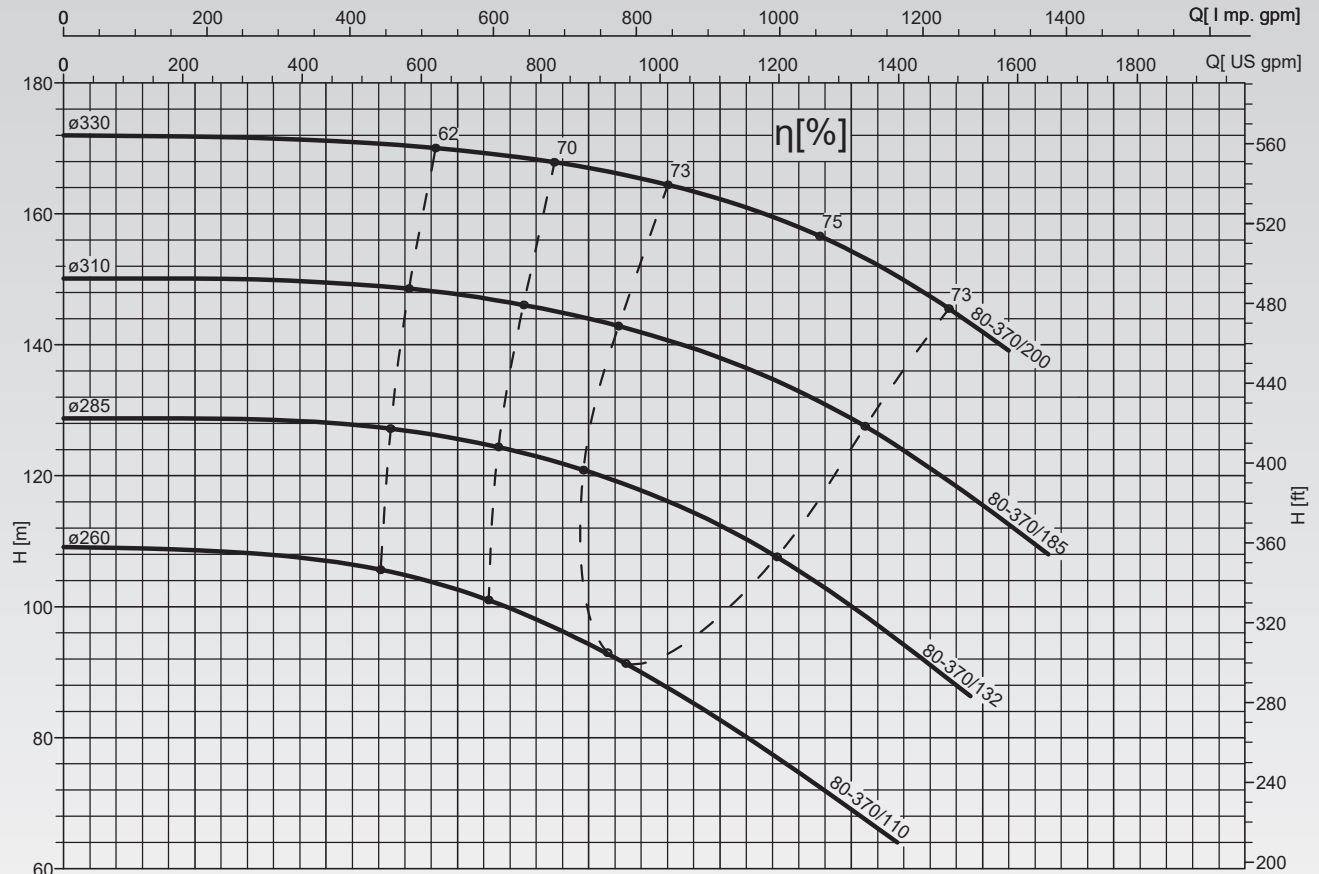


Family of Curves- 2900 rpm - 50 Hz



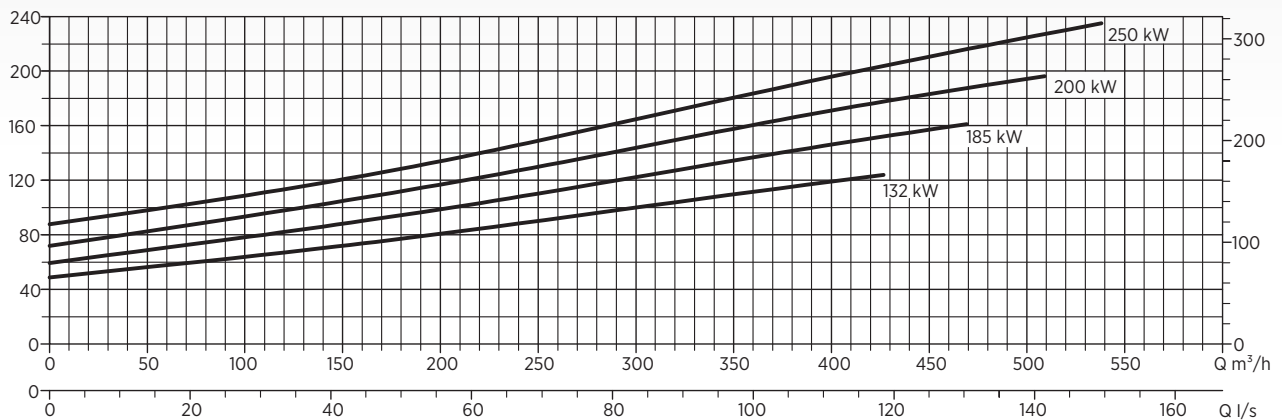
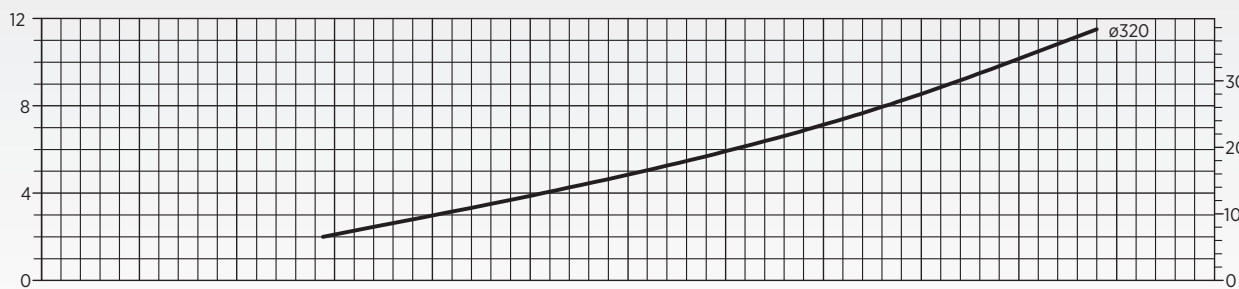
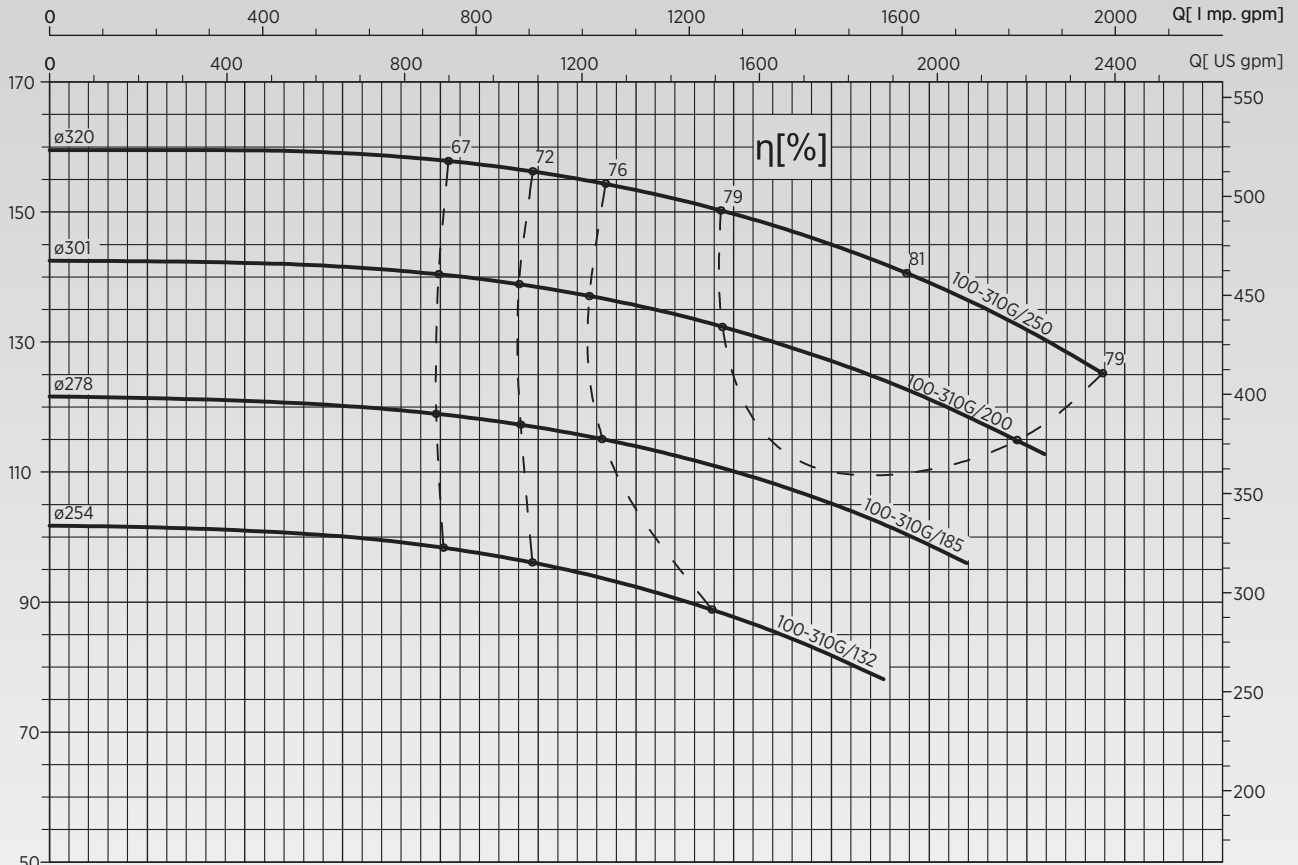
Performance Curves

ESC 80-370 Series



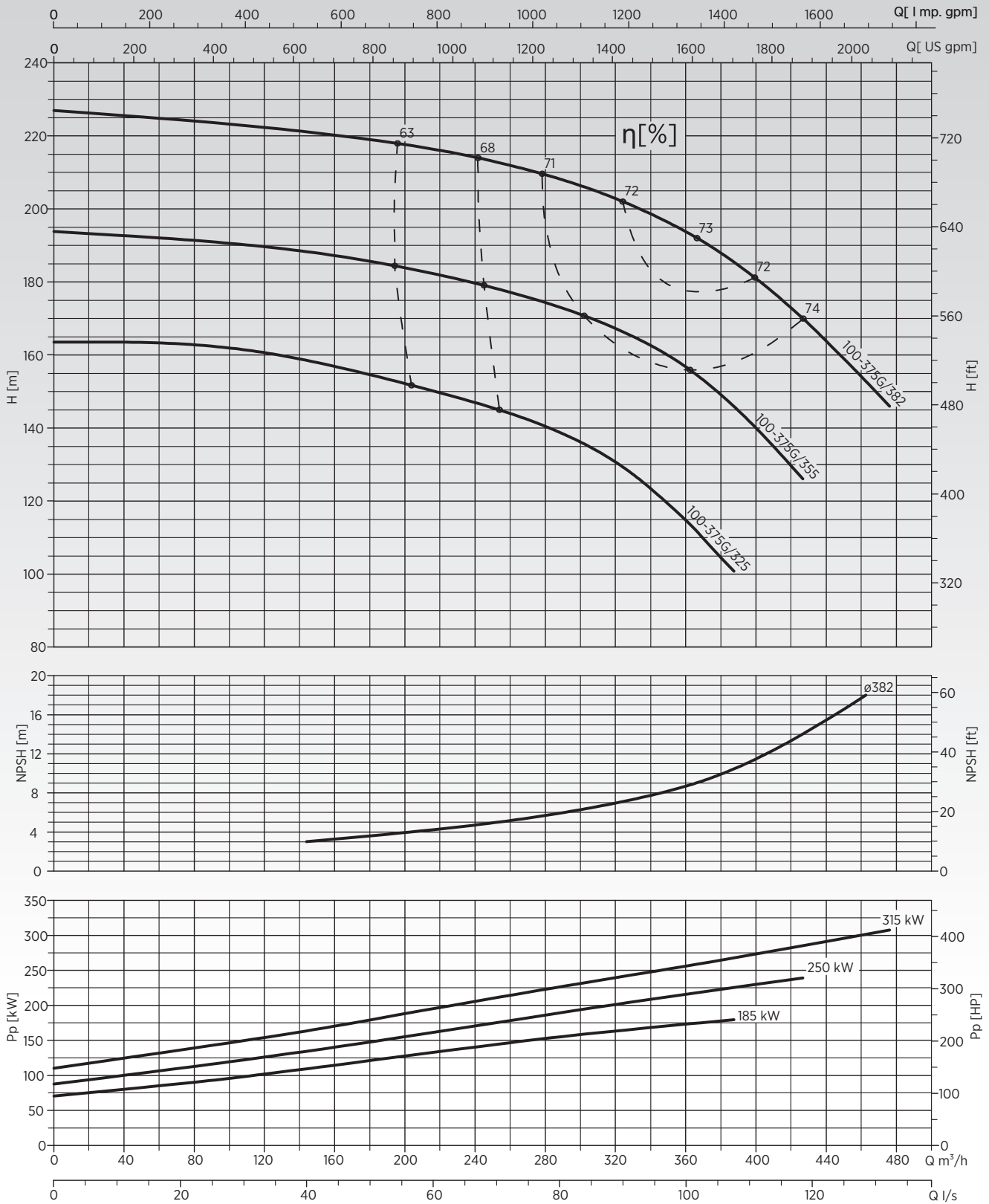
Performance Curves

ESC 100-310G Series



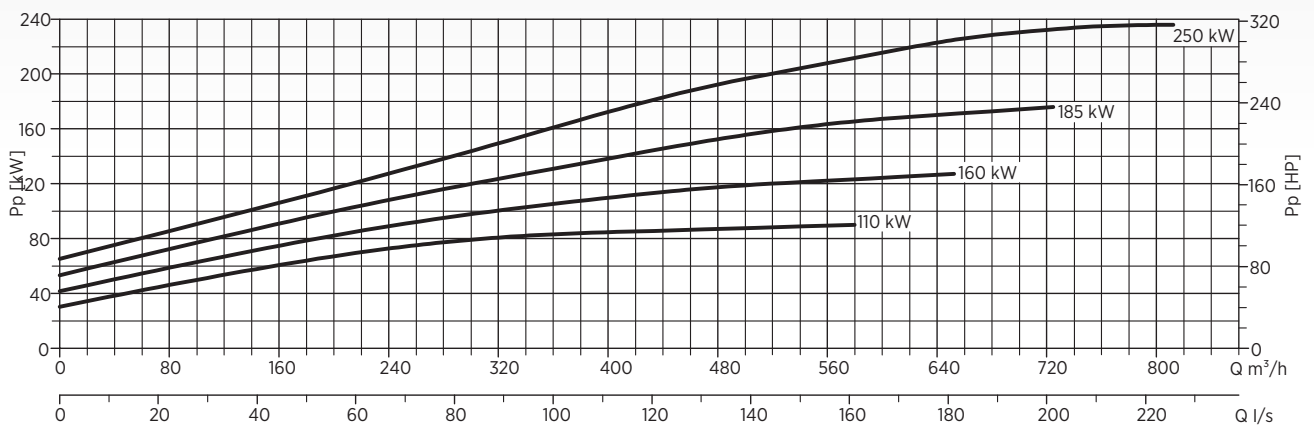
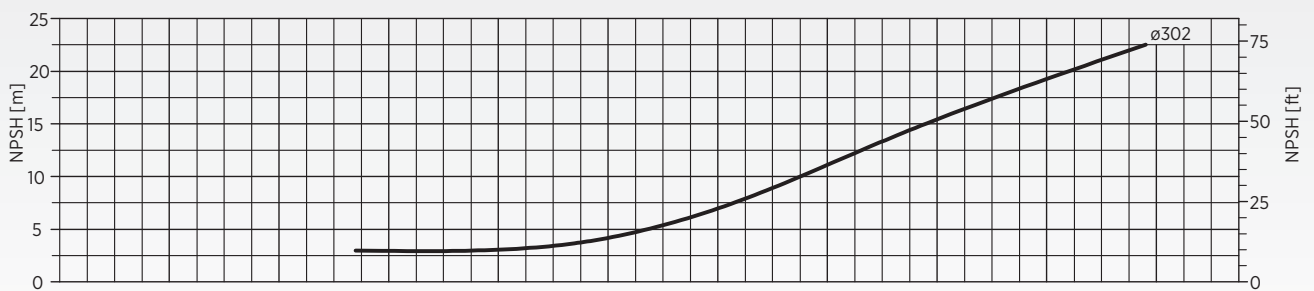
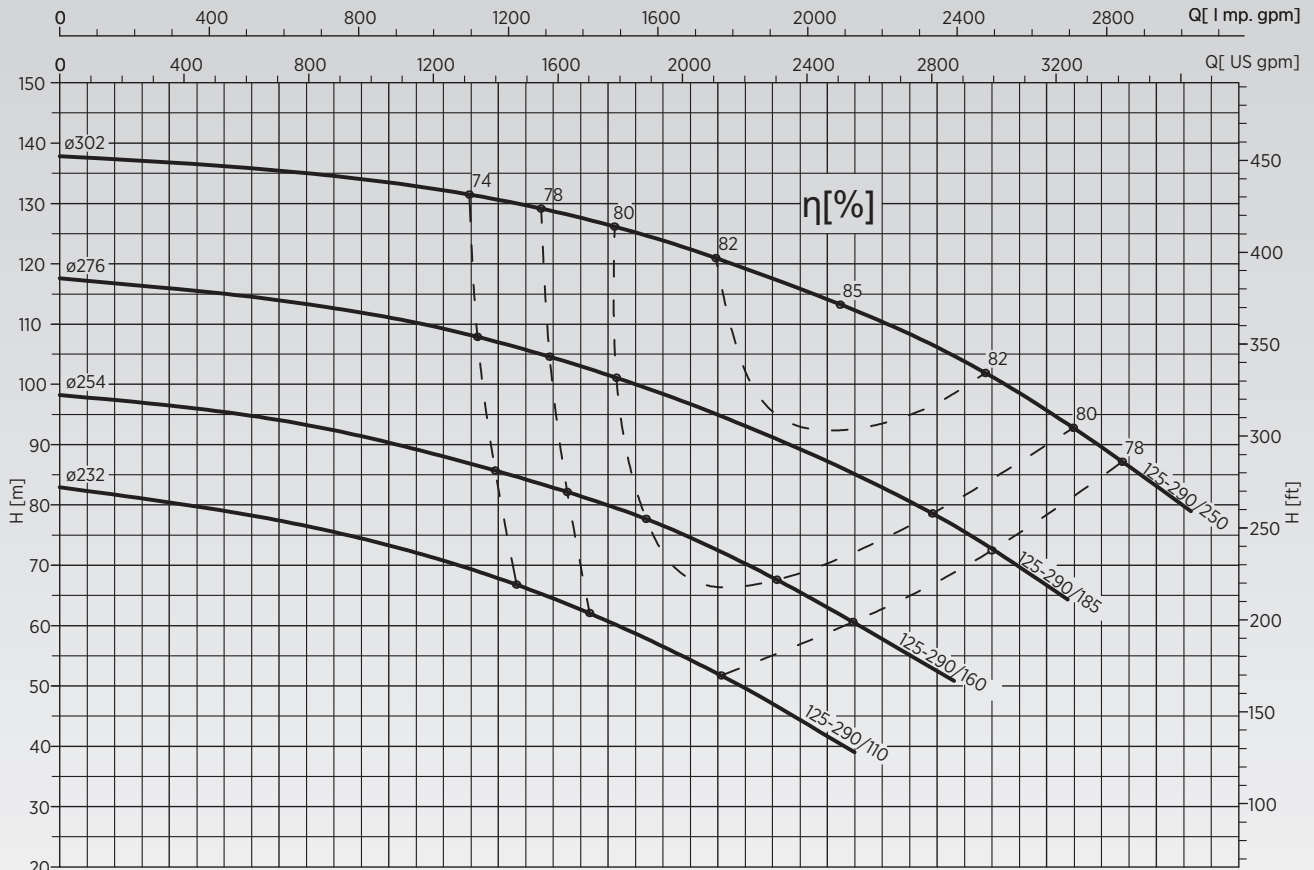
Performance Curves

ESC 100-375G Series



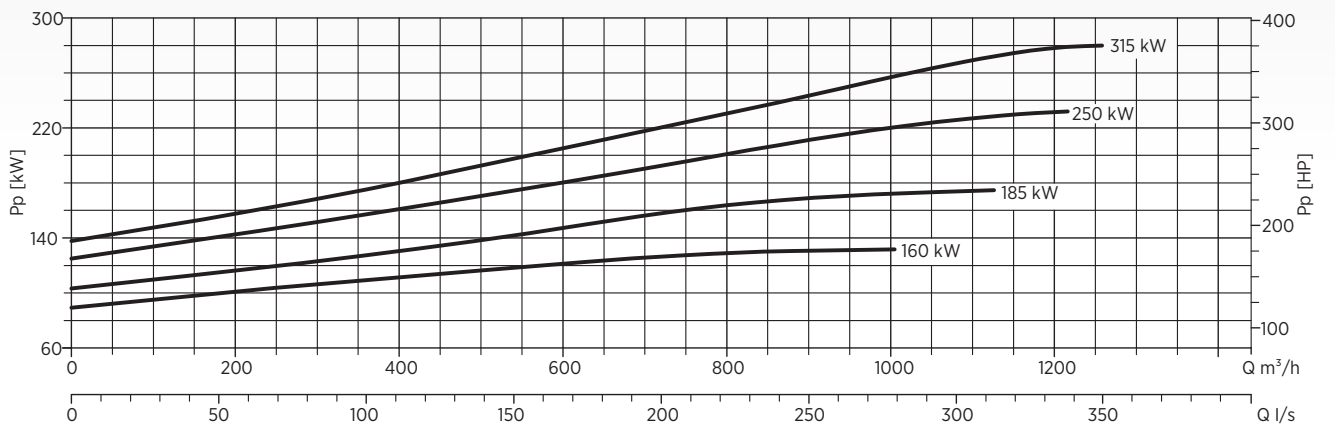
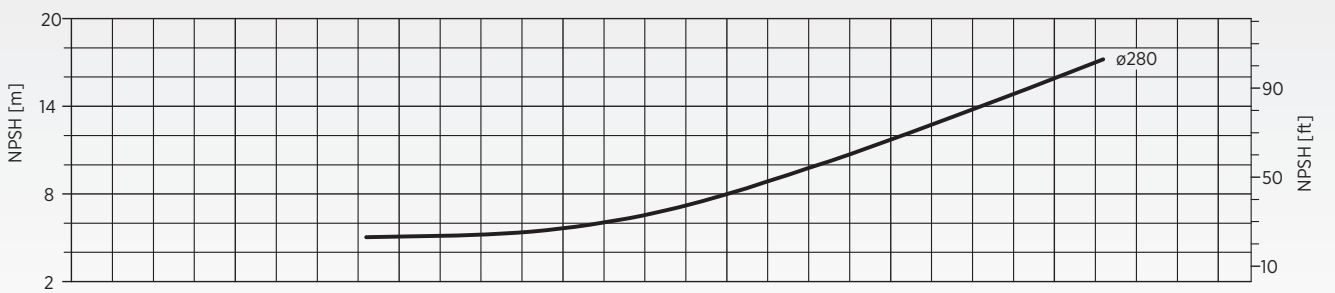
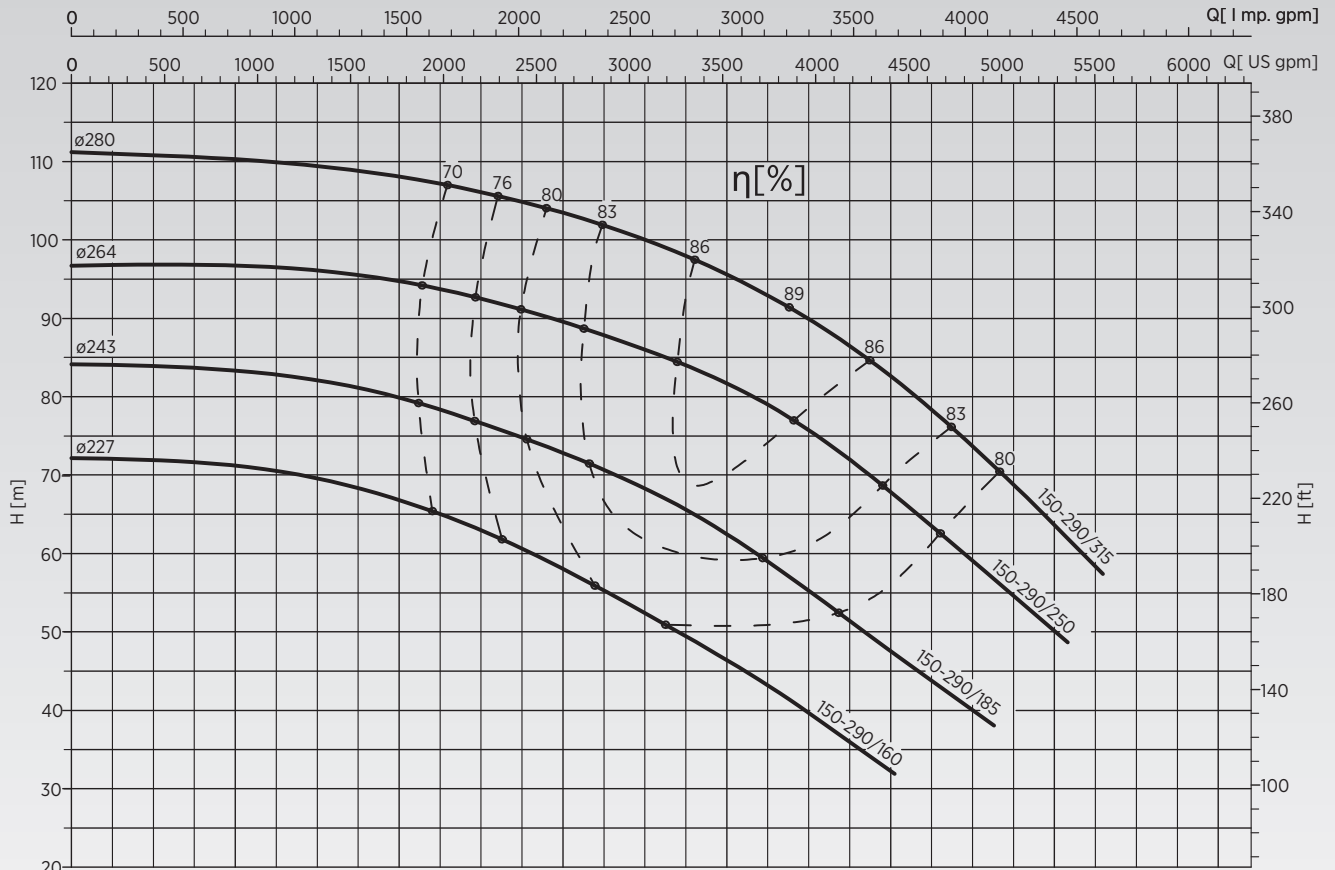
Performance Curves

ESC 125-290 Series

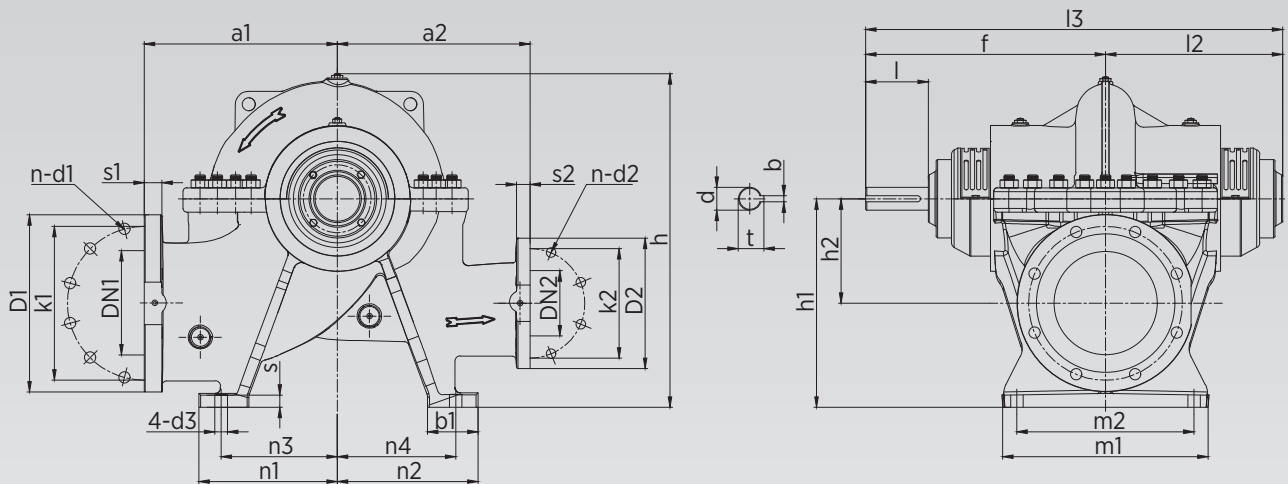


Performance Curves

ESC 150-290 Series

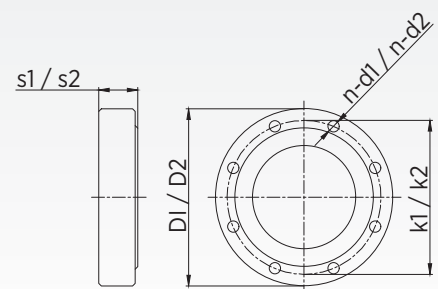


Pumps Dimensions and Weights

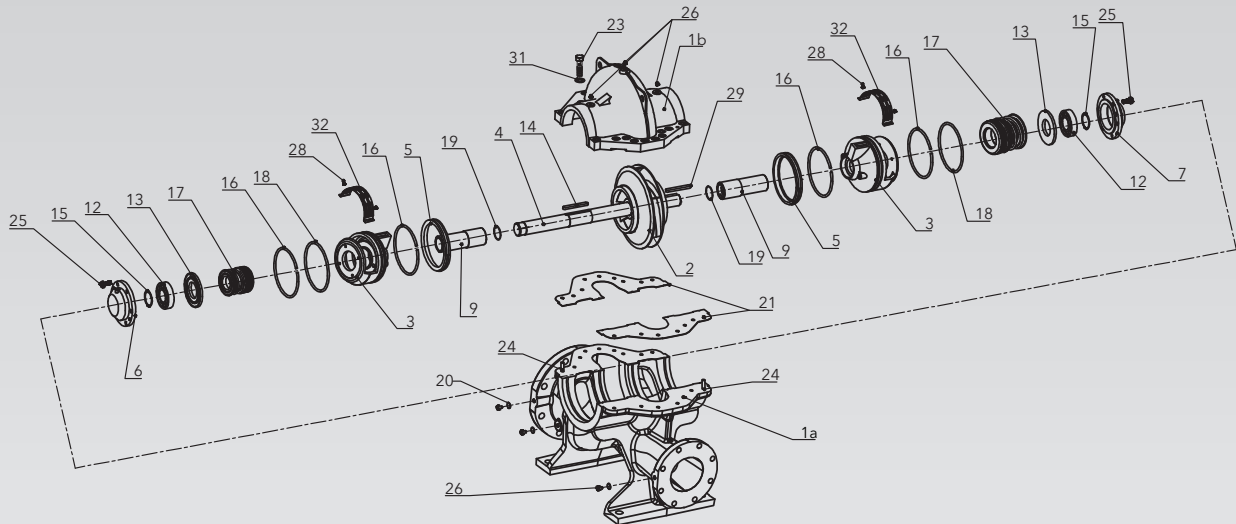


Model	DN1	DN2	a1	a2	f	l2	l3	h	h1	h2	m1	m2	n1	n2	n3	n4	b1	d3	s	d	b	l	t	kg
ESC 80 - 370	125	80	330	330	380	280	655	558	315	140	320	270	205	205	170	170	75	ø 24	23	ø 34	10	105	37.3	209
ESC 100 - 310G	150	100	330	330	380	300	685	605	355	170	320	270	235	235	200	200	80	ø 24	23	ø 39	12	105	42.3	263
ESC 100 - 375G	150	100	370	370	380	300	685	620	355	170	320	270	235	235	200	200	75	ø 24	23	ø 39	12	105	42.3	263
ESC 125 - 290	200	125	370	370	460	340	800	635	400	200	390	340	265	265	225	225	95	ø 24	23	ø 44	12	120	47.3	293
ESC 150 - 290	200	150	400	400	485	365	850	660	400	210	390	340	265	265	225	225	90	ø 24	23	ø 44	12	120	47.3	323

	ISO 7005 / DIN 2501 / PN16				DIN 2635 / PN40
DN1 / DN2	100	125	150	200	80
k1 / k2	180	210	240	295	160
D1 / D2	235	250	285	340	200
s1 / s2	26	26	26	30	24
n-d1 / n-d2	8 - ø 18	8 - ø 18	8 - ø 22	12 - ø 22	8 - ø 18



Exploded View for Mechanical Sealed Models

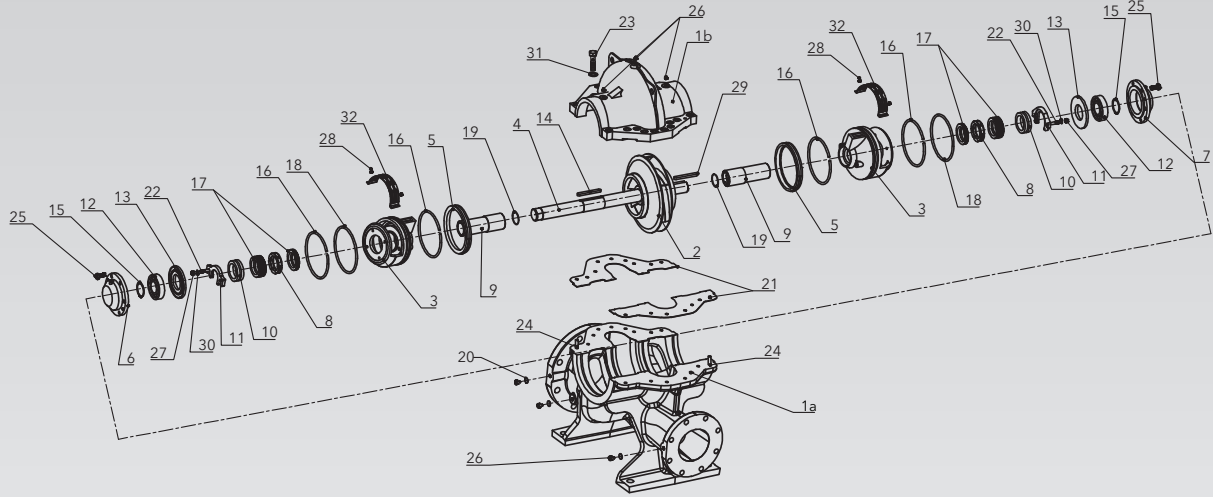


No	Part Name	Piece	Material
1a	Casing Lower Half	1	Gray Cast Iron / GG25
1b	Casing Upper Half	1	Gray Cast Iron / GG25
2	Impeller	1	Bronze / CuSn7
3	Mechanical Seal Hausing	2	Gray Cast Iron / GG25
4	Shaft	1	Stainless Stell / AISI 420
5	Wear Ring	2	Bronze / CuSn7
6	Housing Bearing Outboard	1	Gray Cast Iron / GG25
7	Housing Bearing Inboard	1	Gray Cast Iron / GG25
9	Seal Shaft Sleeve	2	Bronze / CuSn7
12	Bearing	2	See the Bearing Table
13	Bearing Seal Cover	2	KK-T NBR
14	Impeller Key	1	DIN 6885-C45K
15	Retaining Ring	2	DIN 471
16	Snap Ring	4	AISI 304
17	Mechanical Seal	2	M106K / CE / EPDM / SUS304
18	O-ring For M. S. Housing	2	NBR
19	O-ring For Shaft Sleeve	2	NBR
20	O-ring For Drain Pug	7	NBR
21	Gasket Klingerit	2	t=1 mm
23	Bolt	14	DIN125A
24	Centering Pin	2	10.2
25	Bolt	8	10.2
26	Draining Plug	7	G3/8"
28	Bolt	2	DIN125A
29	Motor Key	1	DIN 6885-C45K
31	Washer	14	DIN125A
32	Shaft Guard	2	DIN 6885-A

Part Name	Material						
	GG25	GGG40	CuSn7	CuSn10	AISI 420	AISI 316	AISI 304
Casing Lower Half	◆	◇					
Casing Upper Half	◆	◇					
Impeller	◇		◆	◇			
Shaft					◆	◇	◇

◆ Standard Product
◇ Optional Product

Exploded View for Soft Packing Models

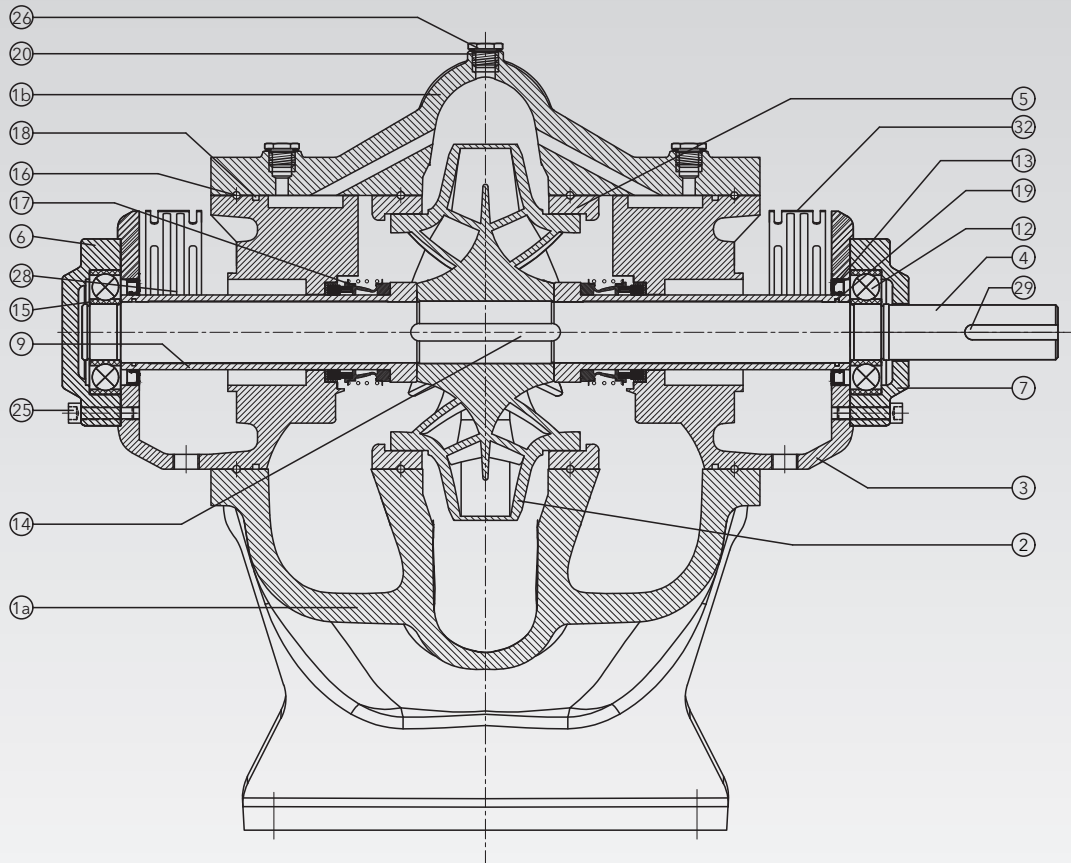


No	Part Name	Piece	Material
1a	Casing Lower Half	1	Gray Cast Iron / Gg25
1b	Casing Upper Half	1	Gray Cast Iron / Gg25
2	Impeller	1	Bronze / Cusn7
3	Stuffing Box / Packing Seal	2	Gray Cast Iron / Gg25
4	Shaft	1	Stainless Stell / Aisi 420
5	Wear Ring	2	Bronze / Cusn7
6	Housing Bearing Outboard	1	Gray Cast Iron / Gg25
7	Housing Bearing Inboard	1	Gray Cast Iron / Gg25
8	Lantern Ring	2	Bronze / Cusn7
9	Seal Shaft Sleeve	2	Bronze / Cusn7
10	Gland	2	Bronze / Cusn7
11	Gland Bracket	2	Gray Cast Iron / Gg25
12	Bearing	2	Rulman Tablosuna Bakınız
13	Bearing Seal Cover	2	Kk-t Nbr
14	Impeller Key	1	Din 6885-ç45k
15	Retaining Ring	2	Din 471
16	Snap Ring	4	Aisi 304
17	Packing Seal	6	Burafllon
18	O-ring For Stuffing Box	2	Nbr
19	O-ring For Shaft Sleeve	2	Nbr
20	O-ring For Drain Pug	7	Nbr
21	Gasket Klingerit	2	T=1 Mm
22	Stud	4	10.2
23	Bolt	14	Din125a
24	Centering Pin	2	10.2
25	Bolt	8	10.2
26	Draining Plug	7	G3/8"
27	Nut	4	8
28	Bolt	2	Din125a
29	Motor Key	1	Din 6885-ç45k
30	Washer	4	Din125a
31	Washer	14	Din125a
32	Shaft Guard	2	Din 6885-a

Part Name	Material						
	GG25	GGG40	CuSn7	CuSn10	AISI 420	AISI 316	AISI 304
Casing Lower Half	◆	◇					
Casing Upper Half	◆	◇					
Impeller	◇		◆	◇			
Shaft					◆	◇	◇

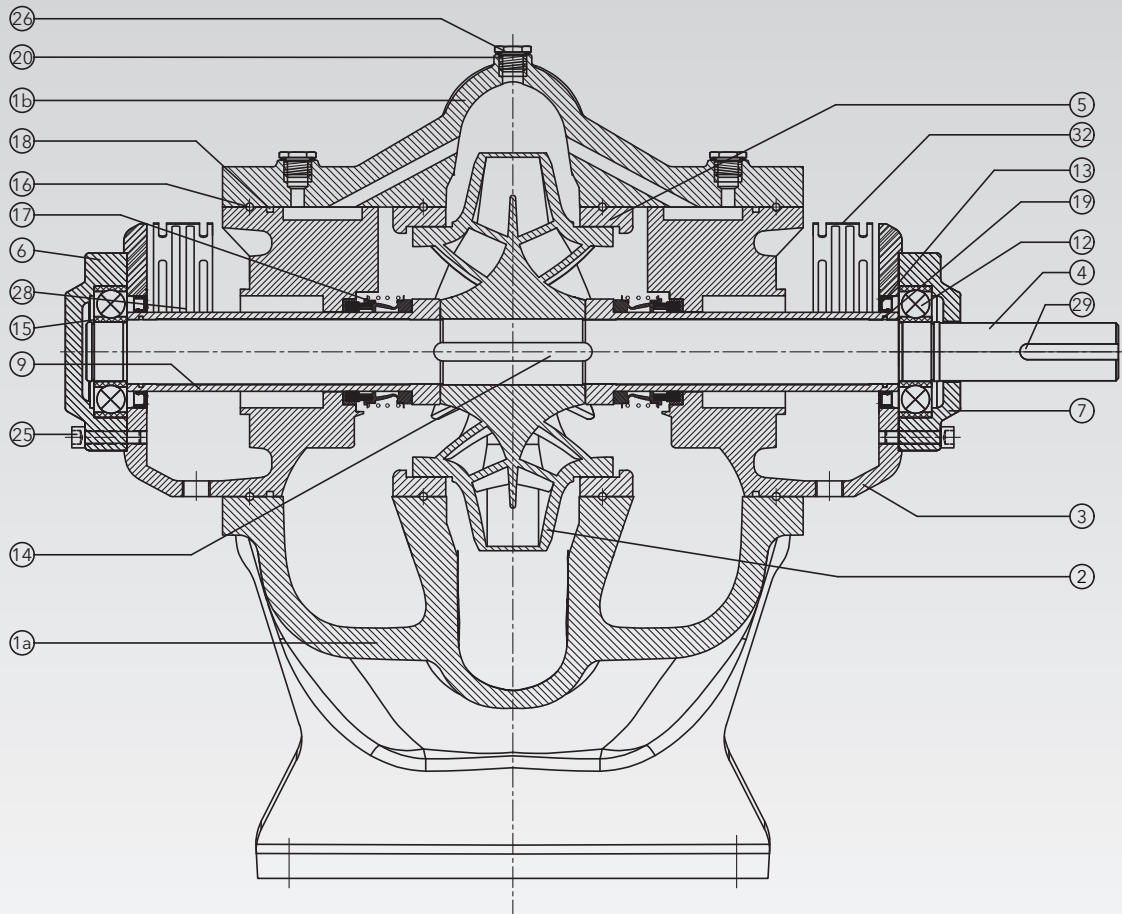
◆ Standard Product
◇ Optional Product

Assembly Drawing for Mechanical Sealed Models



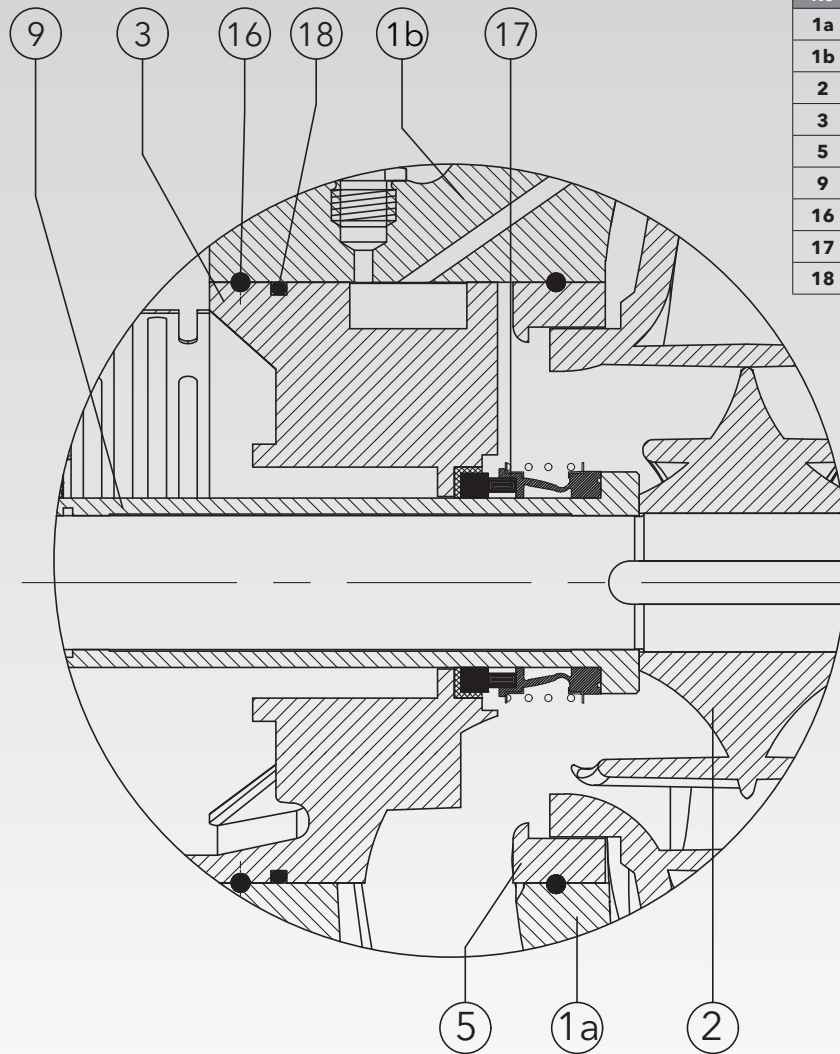
No	Part Name	No	Part Name
1a	Casing Lower Half	16	Snap Ring
1b	Casing Upper Half	17	Packing
2	Impeller	18	O-ring For M. S. Housing
3	Mechanical Seal Housing	19	O-ring For Shaft Sleeve
4	Shaft	20	O-ring For Drain Pug
5	Wear Ring	21	Gasket Klingerite
6	Housing Bearing Outboard	23	Bolt
7	Housing Bearing Inboard	24	Centring Pin
9	Seal Shaft Sleeve	25	Bolt
12	Bearing	26	Draining Plug
13	Bearing Seal Cover	28	Bolt
14	Impeller Key	29	Motor Key
15	Retaining Ring	32	Shaft Guard

Assembly Drawing for Soft Packing Models



No	Part Name	No	Part Name
1a	Casing Lower Half	16	Snap Ring
1b	Casing Upper Half	17	Packing Seal
2	Impeller	18	O-Ring For Stuffing Box
3	Stuffing Box / Packing Seal	19	O-Ring For Shaft Sleeve
4	Shaft	20	O-Ring For Shaft Sleeve
5	Wear Ring	21	Gasket Klingerite
6	Housing Bearing Outboard	22	Stud
7	Housing Bearing Inboard	23	Bolt
8	Lantern Ring	24	Centring Pin
9	Seal - Shaft Sleeve	25	Bolt
10	Gland	26	Plug
11	Gland Bracket	27	Nut
12	Bearing	28	Bolt
13	Bearing Seal Cover	29	Motor Key
14	Impeller Key	31	Washer
15	Retaining Ring	32	Seal Guard Sheet

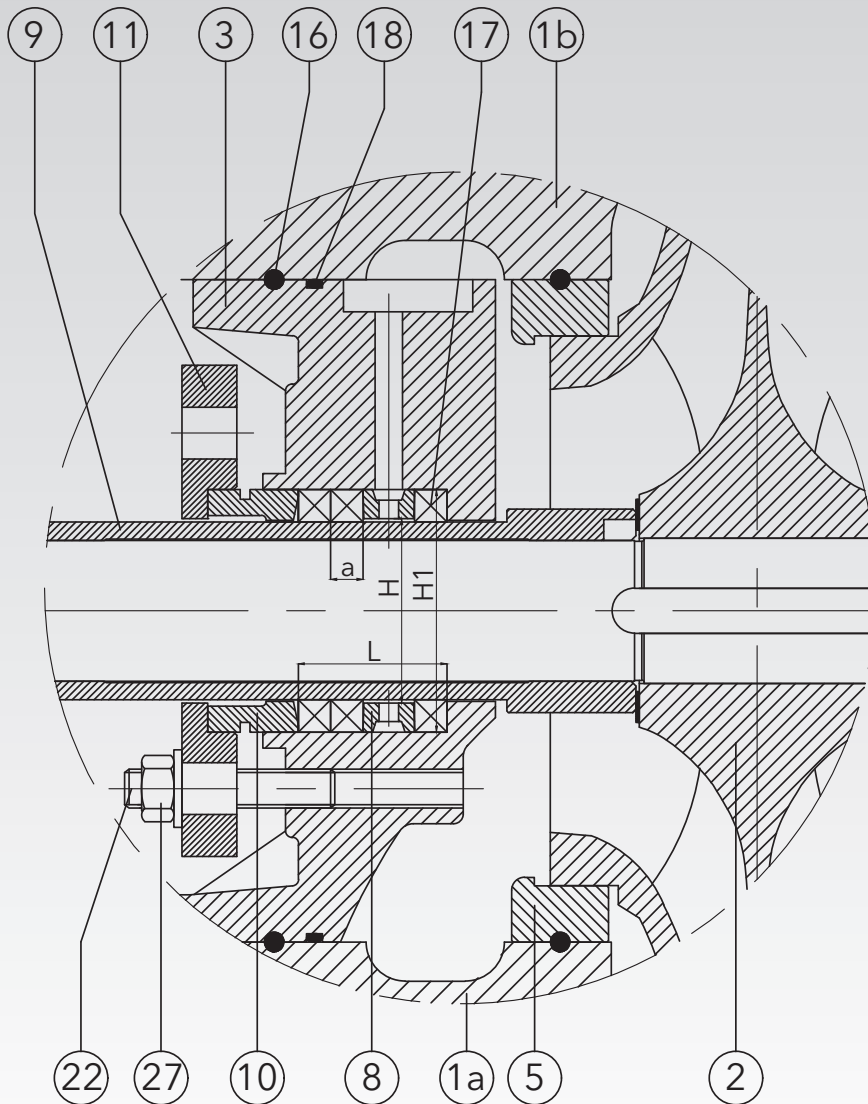
Technical Data for Mechanical Seal



No	Part Name
1a	Casing Lower Half
1b	Casing Upper Half
2	Impeller
3	Mechanical Seal Housing
5	Wear Ring
9	Seal Shaft Seal
16	Snap Ring
17	Mechanical Seal
18	O-ring For M. S. Housing

Type	Bearing (Motor Side)	Bearing (Dead Side)	Seal (Mechanical Seal)	Mechanical Seal Material
ESC 80 - 370	6308 (40x90x23)	6308 (40x90x23)	MG12-55	M106K / CE / EPDM / SUS304
ESC 100 - 310G	NU308 (40x90x23)	6308 (40x90x23) x 2	MG12-55	M106K / CE / EPDM / SUS304
ESC 100 - 375G	NU308(40x90x23)	6308 (40x90x23)x2	MG12-55	M106K / CE / EPDM / SUS304
ESC 125 - 290	6309 (45x100x25)	6309 (45x100x25)	MG12-60	M106K / CE / EPDM / SUS304

Technical Data for Soft Packing

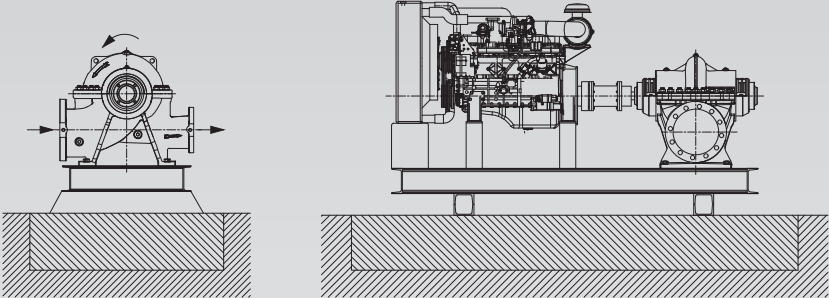


No	Part Name
1a	Casing Lower Half
1b	Casing Upper Half
2	Impeller
3	Stuffing Box / Packing Seal
5	Wear Ring
8	Lantern Ring
9	Seal Shaft Sleeve
10	Gland
11	Gland Bracket
16	Snap Ring
17	Packing Seal
18	O-Ring For Stuffing Box
22	Stud
27	Nut

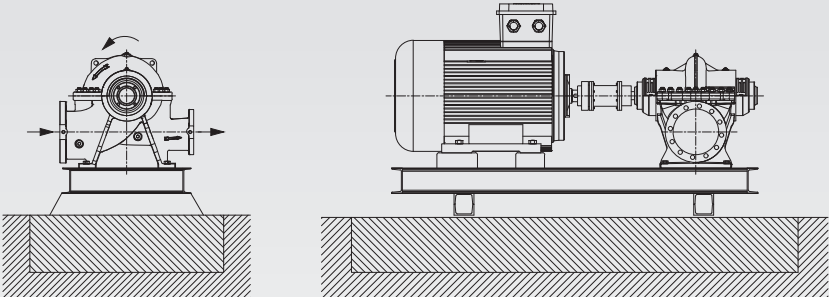
Type	Bearing (Motor Side)	Bearing (Dead Side)	Seal (Soft Packing) (H1xHxaxL)mm	Sealing
ESC 80 - 370	6308 (40x90x23)	6308 (40x90x23)	Ø75xØ55x12x65	2x (4 Soft Packing + 1 Lantern Ring)
ESC 100 - 310G	NU308 (40x90x23)	6308 (40x90x23) x 2	Ø75xØ55x12x65	2x (4 Soft Packing + 1 Lantern Ring)
ESC 100 - 375G	NU308(40x90x23)	6308 (40x90x23)x2	Ø75xØ55x12x65	2x (4 Soft Packing + 1 Lantern Ring)
ESC 125 - 290	6309 (45x100x25)	6309 (45x100x25)	Ø85xØ60x12x70	2x (4 Soft Packing + 1 Lantern Ring)

Installation Types

PUMP INSTALLATION WITH DIESEL

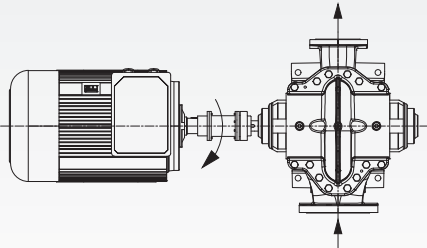


PUMP INSTALLATION WITH ELECTRIC MOTOR

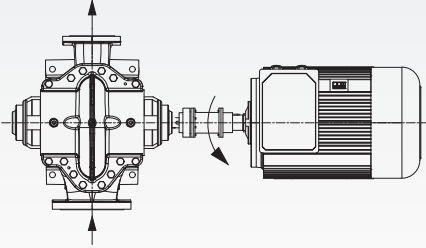


DIRECTION OF ROTATION AND FLOW

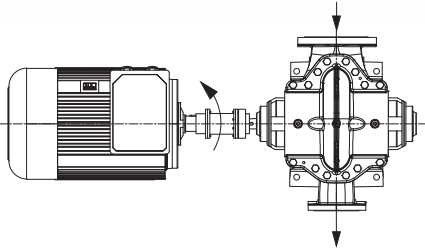
Direction of rotation clockwise
(Motor from the drive end)



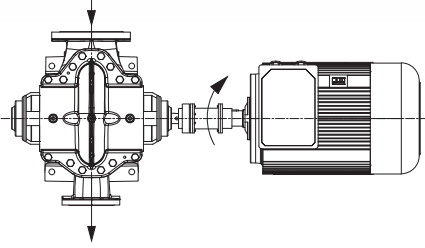
Direction of rotation counter clockwise
(Motor from the drive end)



Direction of rotation counter clockwise
(Motor from the drive end)



Direction of rotation clockwise
(Motor from the drive end)



Notes

Rev 08/2023



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