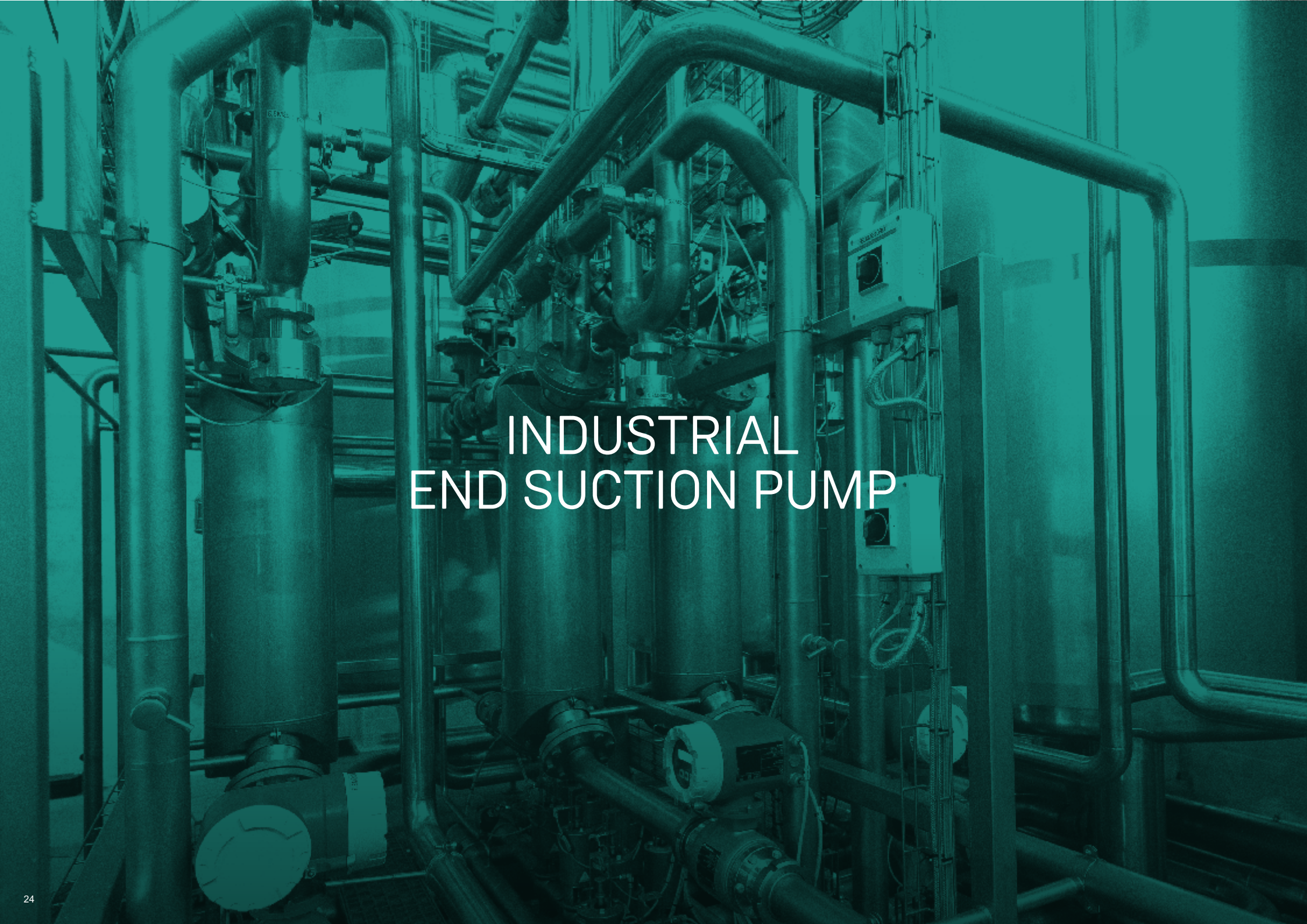


A photograph of an industrial facility featuring several large, vertical end suction pumps. The pumps are connected to a complex network of pipes, valves, and electrical control boxes. The entire scene is overlaid with a teal color filter. The text "INDUSTRIAL END SUCTION PUMP" is centered in white, bold, sans-serif capital letters.

INDUSTRIAL END SUCTION PUMP



BARE SHAFT PUMPS
(Gland / Mech. Seal Type)

INDUSTRIAL END SUCTION PUMP (Back Pullout Design)



MOTOR COUPLED PUMP SETS
(Gland / Mech. Seal Type)

TECHNICAL DETAILS

Types	: Bare Shaft Pumps (Gland / Mech. Seal Type) Motor Coupled Pump Sets (Gland / Mech. Seal Type)
Motor HP (kw)	: 0.34 (0.25) to 194.37 (145.00)
Pipe Size (mm)	: 50 X 32 to 200 X 150
Speed (rpm)	: 1450 & 2900
Head (mtrs)	: Up to 100
Discharge M3/Hr	: Up to 275

Also Available in 60Hz

MATERIAL OF CONSTRUCTION

REGULAR SUPPLY

Pump body	: C. I. Gr. FG 200
Impeller	: C. I. Gr. FG 200
Neck ring	: SS304
Stuffing housing	: C. I. Gr. FG 200
Bearing housing	: C. I. Gr. FG 200
Shaft	: SS-410
Shaft sleeve	: SS-410
Gland packing	: Graphite Asbestos
Mechanical seal	: Carbon Ceramic

OPTIONAL SUPPLY

Impeller	: Bronze
Shaft	: SS-316 (CF 8M)
Gland Packing	: Teflon

APPLICATIONS

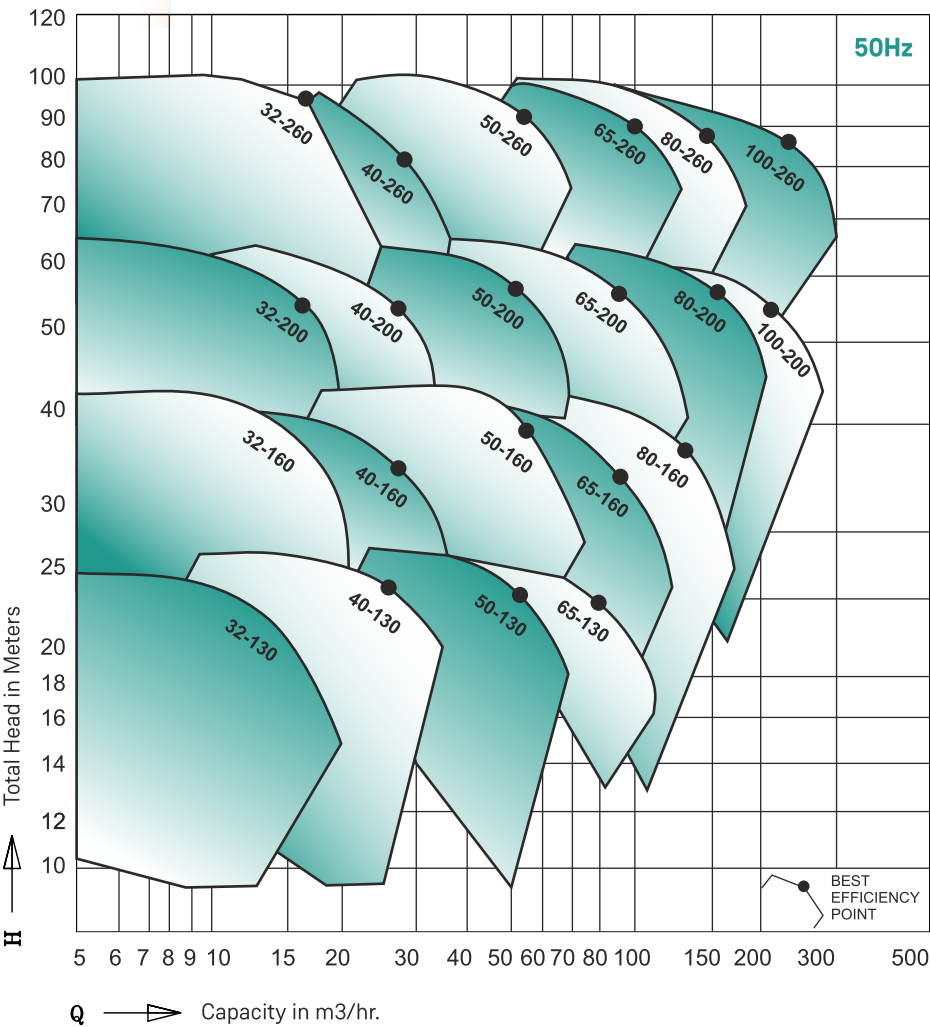
- Chemicals, petrochemicals, refineries, sugar, paper, laminates.
- Drip irrigation, water supply and building services.
- Condensate handling, fire fighting systems, environmental.
- Circulation of water in industries, air conditioning plants, power stations, mining, sprinkler systems, pumping brines,
- Industries, rubber, organic and inorganic chemicals, dam water, food industries, salt, textiles etc.

FEATURES

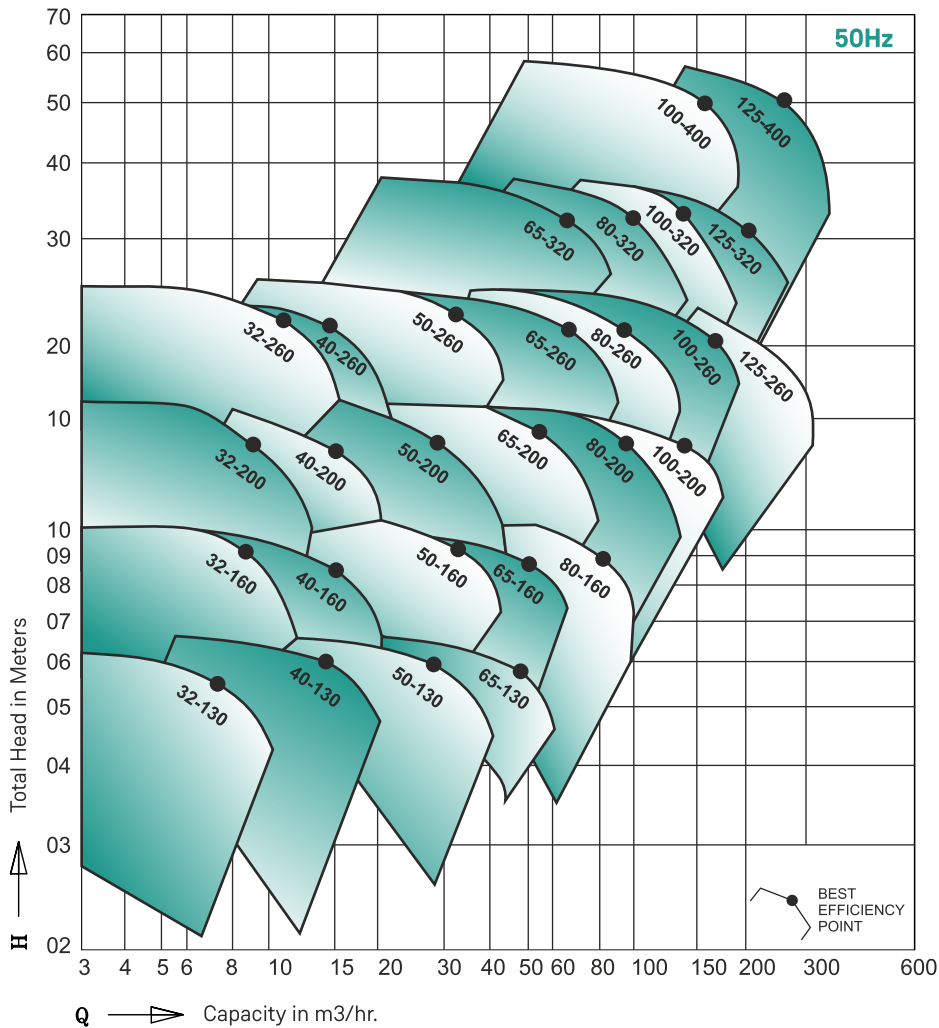
- > **The back pull-out design** enables removal of the motor, coupling, bearing housing and impeller without hampering the existing pump housing or pipe work.
- > The pumps are of **single stage, single suction, and horizontal shaft type**. The rpm operation range is 1450 rpm and 2900 rpm at 50 Hz.
- > This has volute type, end suction casing with **top centerline discharge**. Suction, discharge nozzles and the supporting feet are cast integral with the casing.
- > Impeller is enclosed type **dynamically balanced**.
- > Direction of rotation is clockwise when viewed from the driving end.
- > These pumps can be coupled with **electric motors and engines either directly or by belt drives**.
- > Pumps are available in bare shaft, motor coupled.
- > Available with **mechanical and gland seal**

IES BACK PULL OUT PUMPS PERFORMANCE CURVE

2900 RPM FAMILY GRAPH



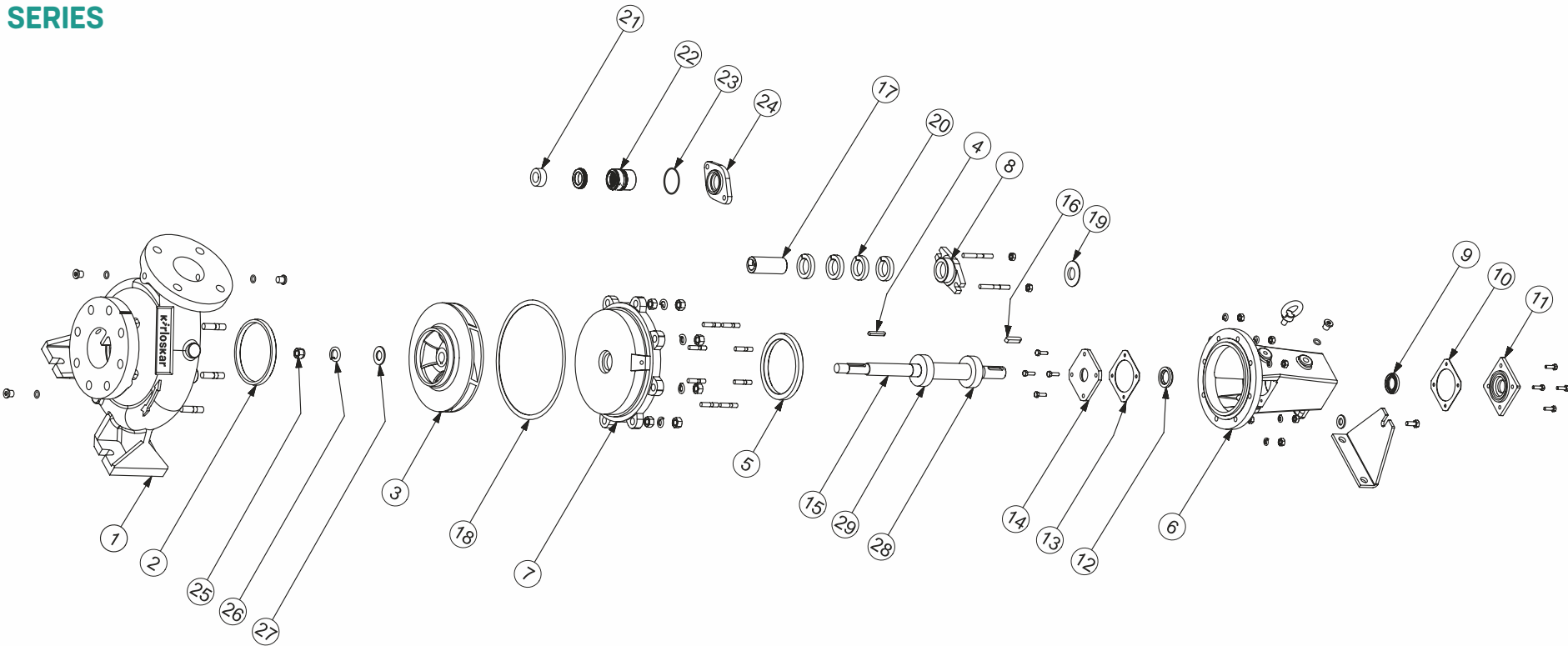
1450 RPM FAMILY GRAPH



Flow =	m ³ /hr	Head =	m	Power =	kW	Efficiency =	%
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BASED ON THE PERFORMANCE OF WATER OF VISCOSITY 1Cst, Sp Gr-1

IES EXPLODED VIEW WITH PUMP PART LIST IES SERIES



SR.NO.	PART NO.	NAME OF PART
1	1	PUMP HOUSING
2	2	NECK RING
3	3	IMPELLER
4	4	KEY FOR IMPELLER
5	5	BACK WEAR RING
6	6	BEARING HOUSING
7	7	STUFFING HOUSING
8	8	GLAND BUSH
9	9	OIL SEAL DRIVE END SIDE
10	10	PAPER PACKING FOR BEARING COVER DRIVE AND SIDE

SR.NO.	PART NO.	NAME OF PART
11	11	BEARING COVER DRIVE AND SIDE
12	12	OIL SEAL NON DRIVE END SIDE
13	13	PAPER PACKING FOR BEARING COVER NON DRIVE END SIDE
14	14	BEARING COVER NON DRIVE END SIDE
15	15	PUMP SHAFT
16	16	KEY FOR COUPLING
17	17	SHAFT SLEEVE
18	18	PAPER PACKING PUMP HOUSING
19	19	WATER DEFLECTOR
20	20	GLAND PACKING

SR.NO.	PART NO.	NAME OF PART
21	21	MECHANICAL SEAL WASHER
22	22	MEACHANICAL SEAL
23	23	O RING FOR MECH SEAL FLANGE
24	24	MECH SEAL FLANGE
25	25	IMPELLER NUT
26	26	SPRING WASHER FLAT FOR IMPELLER NUT
27	27	WASHER FOR IMPELLER NUT
28	28	BEARING DRIVE END SIDE
29	29	BEARING NON DRIVE END SIDE

PERFORMANCE AT 1450 RPM

The performance of the pump is same for Gland / Mechanical Seal Pumps.

Pump selection guide		IES	5032		130	MS / GS				
Code description		Industrial end suction	Conn. Size (mm) Suc x Del		IMP. DIA	Mech. Seal / Gland Seal				
Sr. No.	Pump name	Pump model	Pipe size (mm)	Speed	Dia. Impeller	Duty point		Head range	Disc. range	Motor
			Suc x Del	(rpm)	(mm)	Head (mtrs)	Disc (M3/Hr.)	(Mtrs)	(M3/Hr.)	HP (kw)
1	KP-32/130	IES.5032.130.3.GS	50 X 32	1450	139	5.5	7.2	3.00 - 6.00	10-5	0.13 (0.10) - 0.34 (0.25)
2	KP-32/160	IES.5032.160.3.GS	50 X 32	1450	174	8.5	9.3	5.00 - 10.00	11-4	0.27 (0.20) - 0.67 (0.50)
3	KP-32/200	IES.5032.200.3.GS	50 X 32	1450	214	14	9.0	8.00 - 15.50	13-6	0.40 (0.30) - 1.07 (0.80)
4	KP-32/260	IES.5032.260.3.GS	50 X 32	1450	264	20.5	9.8	14.00 - 24.00	13.32-4.64	1.34 (1.00) - 2.35 (1.75)
5	KP-40/130	IES.6540.130.3.GS	65 X 40	1450	139	5.75	15.0	3.00 - 6.00	20-14	0.27 (0.20) - 0.67 (0.50)
6	KP-40/160	IES.6540.160.3.GS	65 X 40	1450	174	8.5	15.5	5.00 - 9.50	20-10	0.40 (0.30) - 0.94 (0.70)
7	KP-40/200	IES.6540.200.3.GS	65 X 40	1450	214	13	15.5	8.00 - 15.00	19-10	0.67 (0.50) - 1.61 (1.20)
8	KP-40/260	IES.6540.260.3.GS	65 X 40	1450	264	21.5	14.0	14.00 - 24.00	21-6	1.34 (1.00) - 3.35 (2.50)
9	KP-50/130	IES.6550.130.3.GS	65 X 50	1450	139	5.75	28.8	3.00 - 6.50	40-15	0.40 (0.30) - 1.07 (0.80)
10	KP-50/160	IES.6550.160.3.GS	65 X 50	1450	174	9	32.5	5.00 - 10.50	40-10	0.67 (0.50) - 1.88 (1.40)
11	KP-50/200	IES.6550.200.3.GS	65 X 50	1450	214	14	30.0	8.00 - 15.50	40-17.5	1.34 (1.00) - 2.68 (2.00)
12	KP-50/260	IES.6550.260.3.GS	65 X 50	1450	264	23	31.2	14.00 - 25.50	40-12.49	2.68 (2.00) - 5.36 (4.00)
13	KP-65/130	IES.8065.130.3.GS	80 X 65	1450	139	5.75	48.0	3.00 - 6.50	58.72-27.5	0.87 (0.65) - 1.41 (1.05)
14	KP-65/160	IES.8065.160.3.GS	80 X 65	1450	174	8.5	55.0	5.00 - 10.00	69.68-30	1.34 (1.00) - 2.51 (1.88)
15	KP-65/200	IES.8065.200.3.GS	80 X 65	1450	214	14	56.0	8.00 - 16.00	75-30	2.01 (1.50) - 5.36 (4.00)
16	KP-65/260	IES.8065.260.3.GS	80 X 65	1450	264	22	62.5	14.00 - 24.50	85-27.5	3.35 (2.50) - 9.39 (7.00)
17	KP-65/320	IES.8065.320.3.GS	80 X 65	1450	329	32.5	66.5	20.00 - 36.00	90-45	6.03 (4.50) - 14.08 (10.5)
18	KP-80/160	IES.1080.160.3.GS	100 X 80	1450	174	9	77.5	5.00 - 10.40	100-20	1.67 (1.25) - 4.02 (3.00)
19	KP-80/200	IES.1080.200.3.GS	100 X 80	1450	214	14	90.0	8.00 - 15.50	135-14	3.35 (2.50) - 6.71 (5.00)
20	KP-80/260	IES.1080.260.3.GS	100 X 80	1450	264	19.5	90.0	14.00 - 23.50	113.33-33.34	4.69 (3.50) - 9.39 (7.00)
21	KP-80/320	IES.1080.320.3.GS	100 X 80	1450	329	32.5	100.0	20.00 - 36.00	145-60	8.04 (6.00) - 20.11 (15.00)
22	KP-100/200	IES.1210.200.3.GS	125 X 100	1450	214	13.8	140.0	8.00 - 15.50	180-80	4.69 (3.50) - 9.39 (7.00)
23	KP-100/260	IES.1210.260.3.GS	125 X 100	1450	264	22	150.0	14.00 - 24.50	190-100	8.05 (6.00) - 17.43 (13.00)
24	KP-100/320	IES.1210.320.3.GS	125 X 100	1450	329	34	140.0	20.00 - 36.00	180-110	10.05 (7.50) - 25.47 (19.00)
25	KP-100/400	IES.1210.400.3.GS	125 X 100	1450	409	52.5	150.0	38.00 - 57.50	200-90	20.11 (15.00) - 45.58 (34.00)
26	KP-125/260	IES.1512.260.3.GS	150 X 125	1450	264	20	237.5	14.00 - 23.00	310-125	10.73 (8.00) - 24.14 (18.00)
27	KP-125/320	IES.1512.320.3.GS	150 X 125	1450	329	33	187.5	20.00 - 36.00	256.25-125	16.76 (12.50) - 33.53 (25.00)
28	KP-125/400	IES.1512.400.3.GS	150 X 125	1450	409	51	250.0	38.00 - 57.50	340-125	40.23 (30.00) - 70.40 (52.50)

PERFORMANCE AT 2900 RPM

The performance of the pump is same for Gland / Mechanical Seal Pumps.

Pump selection guide		IES	5032		130		MS / GS			
Code description		Industrial end suction	Conn. Size (mm) Suc x Del		IMP. DIA	Mech. Seal / Gland Seal				
Sr. No.	Pump name	Pump model	Pipe size (mm)	Speed	Dia. Impeller	Duty point		Head range	Disc. range	Motor
			Suc x Del	(rpm)	(mm)	Head (mtrs)	Disc (M3/Hr.)	(Mtrs)	(M3/Hr.)	HP (kw)
1	KP-32/130	IES.5032.130.3.GS	50 X 32	2900	139	21	15.0	10.00 - 24.00	3-11	1.34 (1.00) - 2.35 (1.75)
2	KP-32/160	IES.5032.160.3.GS	50 X 32	2900	174	36	17.5	20.00 - 40.00	3.19-11.48	2.01 (1.50) - 4.69 (3.50)
3	KP-32/200	IES.5032.200.3.GS	50 X 32	2900	214	53	17.5	30.00 - 62.50	2.78-10	4.02 (3.00) - 7.38 (5.50)
4	KP-32/260	IES.5032.260.3.GS	50 X 32	2900	264	87	22.0	60.00 - 97.00	3.9-14	12.07 (9.00) - 18.77 (14.00)
5	KP-40/130	IES.6540.130.3.GS	65 X 40	2900	139	23	29.0	10.00 - 25.00	5.83-21	1.34 (1.00) - 4.02 (3.00)
6	KP-40/160	IES.6540.160.3.GS	65 X 40	2900	174	34	30.0	20.00 - 39.00	4.86-17.5	2.68 (2.00) - 6.70 (5.00)
7	KP-40/200	IES.6540.200.3.GS	65 X 40	2900	214	55	29.0	30.00 - 61.00	5.14-18.5	5.36 (4.00) - 11.40 (8.50)
8	KP-40/260	IES.6540.260.3.GS	65 X 40	2900	264	83	30.0	60.00 - 95.00	4.44-16	10.73 (8.00) -21.46 (16.00)
9	KP-50/130	IES.6550.130.3.GS	65 X 50	2900	139	24	57.5	10.00 - 26.00	8.33-30	2.68 (2.00) - 8.72 (6.50)
10	KP-50/160	IES.6550.160.3.GS	65 X 50	2900	174	38	63.5	20.00 - 41.00	13.19-47.48	5.36 (4.00) - 14.08 (10.50)
11	KP-50/200	IES.6550.200.3.GS	65 X 50	2900	214	56	60.0	30.00 - 63.00	8.33-30	9.39 (7.00) - 20.12 (15.00)
12	KP-50/260	IES.6550.260.3.GS	65 X 50	2900	264	92	62.5	60.00 - 98.00	12.50-45	20.12 (15.00) - 43.58 (32.50)
13	KP-65/130	IES.8065.130.3.GS	80 X 65	2900	139	22.5	96.0	10.00 - 25.50	15.28-55	6.03 (4.50) - 11.06 (8.25)
14	KP-65/160	IES.8065.160.3.GS	80 X 65	2900	174	35	110.0	20.00 - 41.00	15.28-55	9.38 (7.00) - 18.77 (14.00)
15	KP-65/200	IES.8065.200.3.GS	80 X 65	2900	214	55	112.5	40.00 - 63.50	18-65	16.76 (12.50) - 36.88 (27.50)
16	KP-65/260	IES.8065.260.3.GS	80 X 65	2900	264	89	125.0	60.00 - 98.00	13.9-50	26.82 (20.00) - 60.35 (45.00)
17	KP-80/160	IES.1080.160.3.GS	100 X 80	2900	174	36	155.0	20.00 - 40.00	26.4-95	13.41 (10.00) - 36.82 (25.00)
18	KP-80/200	IES.1080.200.3.GS	100 X 80	2900	214	55	185.0	40.00 - 63.00	22.22-80	20.12 (15.00) - 53.64 (40.00)
19	KP-80/260	IES.1080.260.3.GS	100 X 80	2900	264	77.5	170.0	60.00 - 93.00	16.67-60	26.82 (20.00) - 67.05 (50.00)
20	KP-100-200	IES.1210.200.3.GS	125 X 100	2900	214	53	275.0	40.00 - 60.00	45.14-162.5	33.53 (25.00) - 73.76 (55.00)
21	KP-100/260	IES.1210.260.3.GS	125 X 100	2900	264	87	275.0	60.00 - 98.00	34.72-125	60.35 (45.00) - 134.10 (100.00)