

LAIKO



AIH

**SINGLE STAGE SINGLE SUCTION
CHEMICAL PROCESS PUMP**

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SINGLE STAGE SINGLE SUCTION CHEMICAL PROCESS PUMP

PUMP AND SYSTEM SOLUTION PROVIDER



Superior in Pump, Superior in Energy-Saving.

www.Laikopump.com



LAIKO Laiko Pump
Pump and System Solution Provider

LAIKO Pump(Zhejiang) Co., Ltd. is a subsidiary of Zhejiang Dayuan Pumps Industrial Co., Ltd. (Stock code: 603757), focusing on the research and manufacturing of energy-saving pumps.

LAIKO's applications cover the fields of construction, municipal, and industrial sectors. Currently, we have product lines including Inline Multistage Pumps, Inline Circulation Pumps, Horizontal Multistage Pumps, Cold and Hot Water Circulation Pipeline Pumps, Single-Stage Centrifugal Pumps, Standard Centrifugal Pumps, Stainless steel Horizontal Single-Stage Centrifugal Pumps, Submersible Sewage Pumps, and Immersed Multistage Centrifugal Pumps. Our products are exported to many countries and regions in Europe, America, and Asia, meeting local legal requirements and obtaining recognition from clients.

A standard research and development, production, sales, and service system has laid the core competitiveness and sustainable development space for LAIKO. Reliable product quality and thoughtful after-sales service have earned LAIKO widespread reputation.

LAIKO maintains a pioneering spirit, always adheres to the concept of technological innovation, and never stops exploring energy-saving endeavors!

Research and manufacturing of energy-saving pumps, providing pump and system solutions

With over 34 years of accumulated strength, we have formed an alliance with top domestic water pump research and development, production, sales, and technical teams, Established Zhejiang Laiko Pump Industry Co., Ltd. (referred to as Zhejiang Leike), with comprehensive strength ranking among the top in the industry.

The second-generation green intelligent factory of Industry 4.0 standard covers an area of nearly 200 acres, with an annual output of over 7 million units and a total investment of over 1 billion yuan.

Zhejiang Laiko has established a comprehensive sales and service network nationwide, with direct offices in major cities. Our products are exported to multiple countries and regions in Europe, America, and Asia. China Laiko pumps globally.



GREEN SMART FACTORY

Dayuan Pump Group and its subsidiary Laiko Pump Industry have implemented a significant strategic layout. Covering an area of nearly 200 acres with a total investment of approximately 1 billion RMB, the facility has an annual production capacity of 7 million units. It is a modern integrated factory that combines production, research and development, manufacturing, and logistics.



R&D STRENGTH

346 Domestic patents	29 Invention Patent	242 New utility patent	75 Appearance patent	6 Overseas patents
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As a brand under Dayuan Pump Group, we have a strong foundation with over 177 R&D personnel and more than 352 patents. Our products have been honored with titles such as "Zhejiang Famous Brand Product" and "Zhejiang Export Famous Brand," and are exported to multiple countries and regions across Europe, America, and Asia. Our comprehensive strength ranks among the top in the industry. Through years of continuous investment in research and development, we have established a significant technological innovation advantage.

SERVICE COOPERATION

We have established offices in major cities across the country, supported by a professional and efficient service team. From consultation, purchase, after-sales, to maintenance, we provide high-quality, professional, timely, and attentive services at every stage.

Guided by the principle of "wholehearted dedication and customer-first," we respond quickly to customer needs, offering precise product recommendations and tailored solutions. Our comprehensive and full-cycle services ensure a worry-free experience for our customers.

- SERVICE TENET: With all our heart and soul, Putting customers first
- SERVICE TENET: Rapid response, Precise solution
- SERVICE OBJECTIVES: Efficient O&M, Win-Win Cooperation



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Single Stage Single Suction Chemical Process Pump



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LAIKO Laiko Pump (Zhejiang) Co., Ltd.

AIH

SINGLE STAGE SINGLE SUCTION
CHEMICAL PROCESS PUMP

The AIH series pump is a horizontal single-stage single suction cantilever centrifugal pump, which is optimized, upgraded, and innovated based on the IH pump, IJ pump, and CZ pump currently available in the market. It has a wide range of high efficiency, a wide range of applications, and long bearing spacing, solving the problem of pump shaft breakage in high density and high viscosity media; The hydraulic performance design adopts excellent hydraulic models, optimized through CFD simulation, to improve the efficiency of the pump, which is more than 5% higher than that of IH pumps; The suspension body adopts a bracket support form, which can withstand the stress caused by some pipelines and ensure smooth operation during operation.

The bearing adopts thin oil lubrication and is designed with a bearing isolator. It will not damage the shaft surface during operation and has a service life of up to 25000 hours, avoiding the common maintenance problems of traditional oil seals; Targeted design of the sealing chamber structure has been carried out for media that are prone to crystallization, scaling, and contain solid particles, ensuring the working environment of mechanical seals and improving their service life; The design of the rear blades of the impeller reduces axial force, and the pump body has single and double volute structures to balance radial force and reduce vibration;

Adopting a rear opening design, there is no need to disassemble the inlet and outlet pipelines during maintenance, making it easy to operate and install; Product parts are highly interchangeable, reducing the amount of spare parts stored by users.

The flange standard follows HG/T20592-2009 PN16 RF (can be designed and manufactured according to user requirements using SH/ASTM/ANSI standards, etc.); When viewed from the drive end towards the pump, it rotates clockwise.

Flow range: 4.8-1200m³/h Head range: 10-127m

APPLICATION FIELD

Alkali Production Industry
Nonferrous Metallurgy
Petrochemical Industry
Acid Production Industry
Pharmaceutical Industry
Synthetic Fiber
Plastic Industry
Fertilizer Industry
Environmental Protection
Paper Industry
Steel Industry

Product Introduction

The AIH series pump is a horizontal single-stage single suction cantilever centrifugal pump, which is optimized, upgraded and innovated based on the previous IH pump, IJ pump and CZ pump in the market. It has a wide range of high efficiency, wide range of use, long bearing spacing, and solves the problem of pump shaft breakage in high density and high viscosity media.

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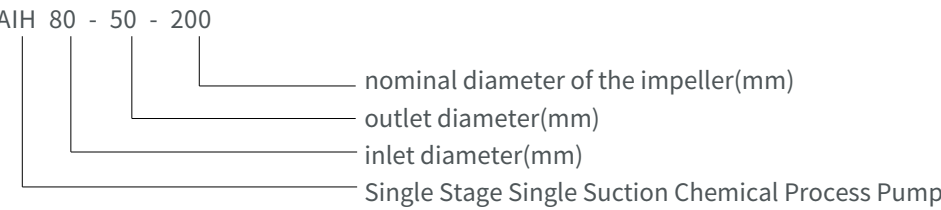
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When viewed from the drive end towards the pump, it rotates clockwise.

Model Description



Typical applications

Alkali production industry: Ammonia salt liquor produced from soda ash and ammonia linked alkali, ambient temperature caustic alkali produced from chlor alkali, chlorine products, chlorates, and fluorites.

Nonferrous metallurgy: transportation of electrolytes for electrolytic copper and nickel, acid mist for cobalt production, slurry for peak production, ammonium vanadate for vanadium production, acid and thiourea solution for gold production, etc.

Petrochemical industry: production of refined acetaldehyde alkylbenzene from petroleum.

Acid production industry: nitric acid, sulfuric acid, hydrochloric acid, phosphoric acid, acetic acid, etc.

Pharmaceutical industry: production of pharmaceuticals and pesticides.

Synthetic fiber and plastic industry: production of polyester and polyethylene oxide, textile, printing and dyeing industry.

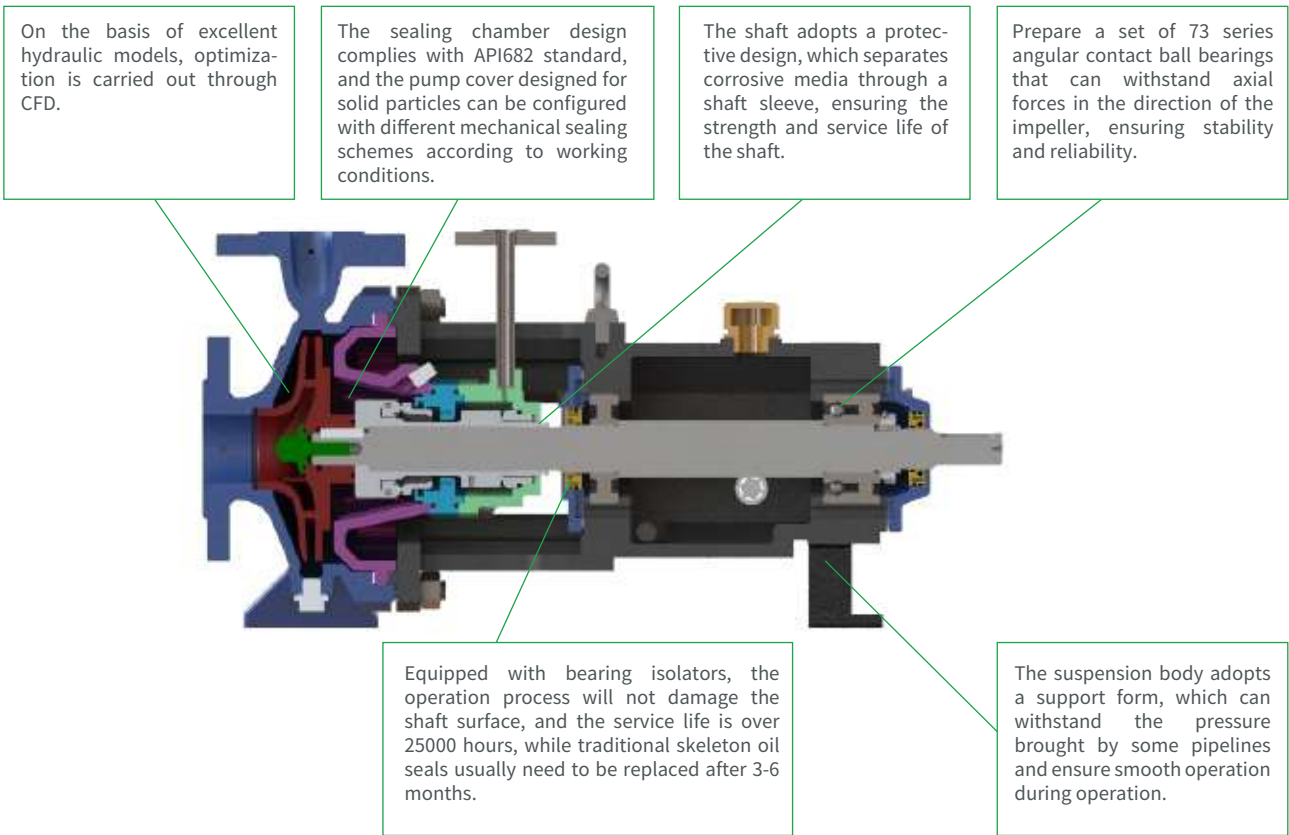
Fertilizer industry: production of urea and ammonium nitrate.

Environmental protection: sewage treatment, transportation of acid mist solution.

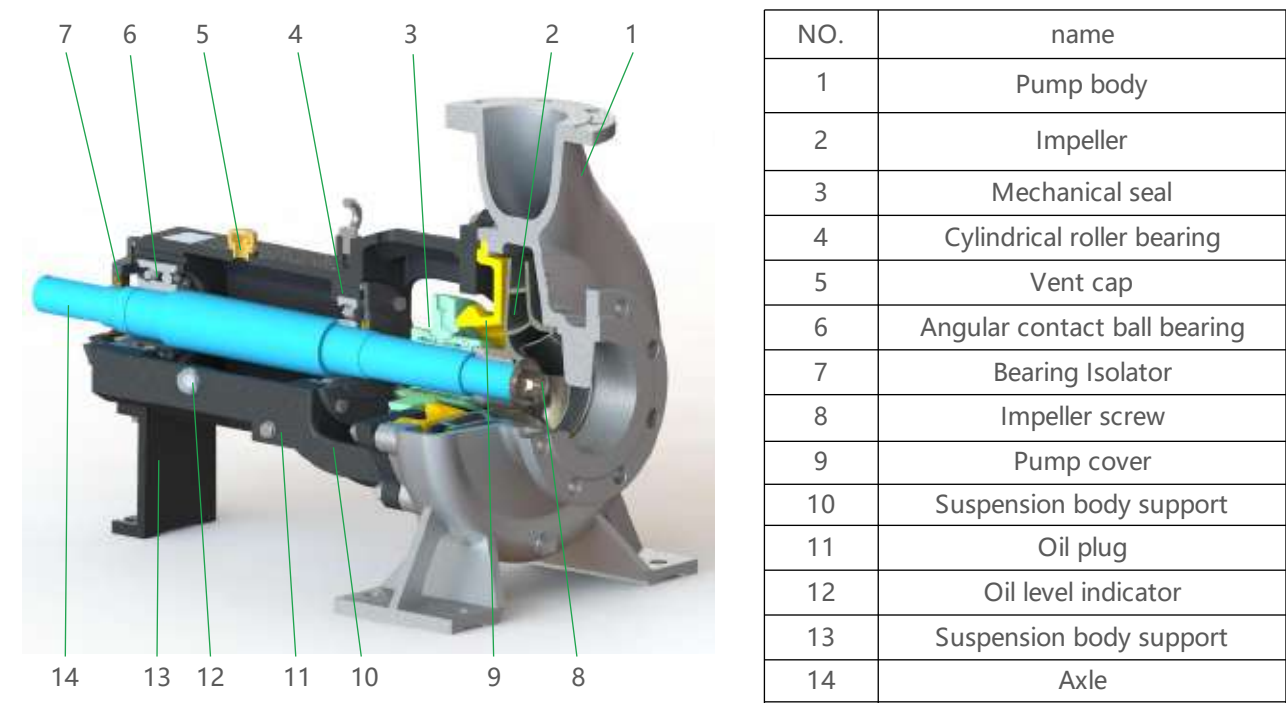
Paper industry: transportation of pulp cooking and bleaching liquids

Steel industry: electroplating, acid washing, and waste acid treatment.

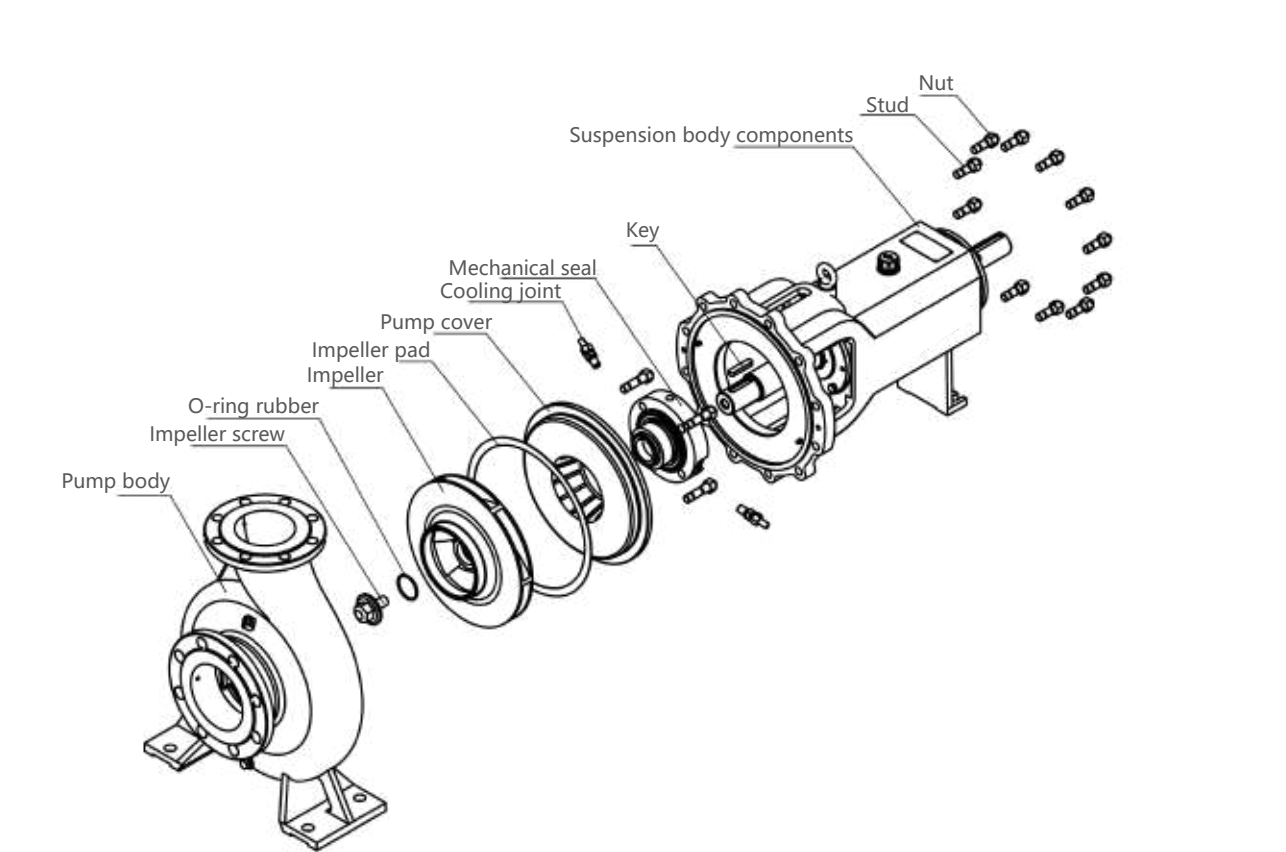
Structural Features



Structural diagram



Exploded view



Part Material

Select corrosion-resistant and wear-resistant materials (stainless steel/duplex steel/titanium/nickel/Hastelloy) based on the working medium.

NO.	Industry	Medium	Common metal materials
1	Caustic soda、Chlor alkali	Sodium hydroxide, sodium hypochlorite, sodium chlorate, brine, catholyte, anolyte, etc	304、316L、TA2/TA9/TA10、Ni200
2	Acid production	Sulfuric acid, phosphoric acid, nitric acid, acetic acid, etc	304、316L2205、904、20# Alloy, Hastelloy alloy
3	Salt making	Sodium chloride, sodium sulfate, sodium nitrate, etc	304、316L、2205、2507、TA2
4	Pharmaceutical production	Ethanol, glucose, pharmaceuticals, pesticides, etc	304、316L
5	Fine Chemicals	Organic chemicals, organic intermediates, synthetic fibers, synthetic resins, monomers, etc	304、316L、2205、2507、TA2
6	Chemical fertilizer	Urea, ammonium fertilizer, potassium fertilizer, etc	304、316L
7	Papermaking	Pulp, black liquor, white mud, green mud, filtrate, etc	304、2205、0Cr17、CD4MCu
8	Food	Filter aids, additives, etc	304、316L
9	Sewage treatment	Sodium hypochlorite, sodium sulfite, sodium dihydrogen phosphate	304、316L、2205、2507、TA2
10	Seawater desalination	Seawater	316L、2205、2507、TA2

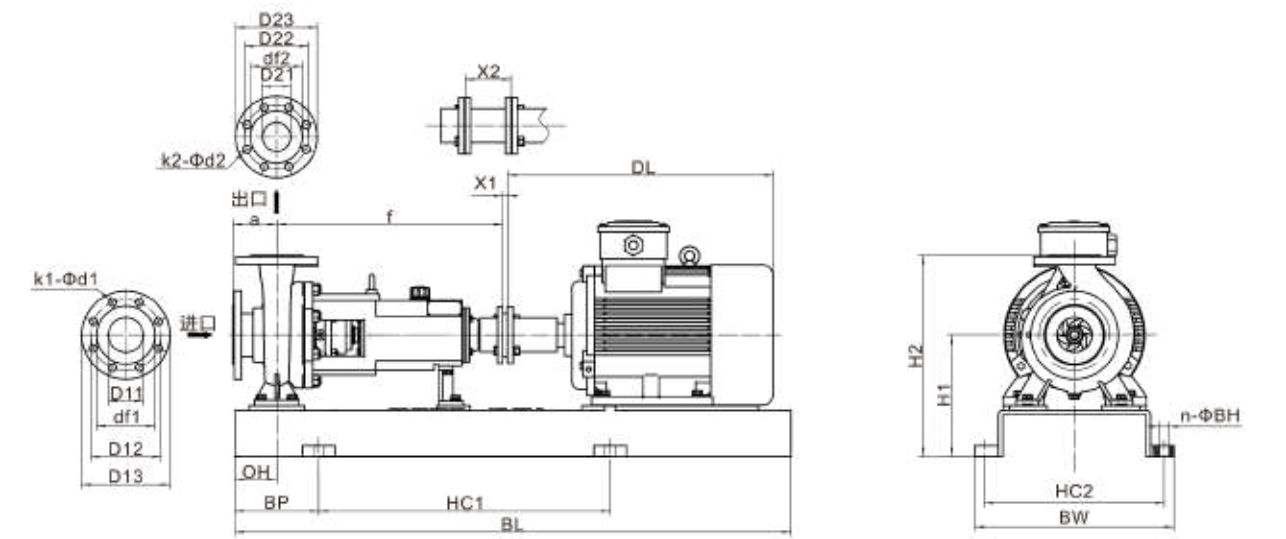
Performance parameter table

Model	N (r/min)	Q (m³/h)	H (m)	Rated flow rate (m³/h)	rated head (m)	Rated point efficiency (%)	shaft power (kW)	electromotor		
								Specific gravity 1.0	Specific gravity 1.35	Specific gravity 1.84
40-25-125	2900	4.8~7.2	16~22	6	20	39	0.84	Y80M-2/1.1	Y90S-2/1.5	Y90L-2/2.2
40-25-160	2900	4.8~7.2	24~33	6	32	32.1	1.63	Y90L-2/2.2	Y90L-2/2.2	Y100L-2/3
40-25-200	2900	4.8~7.2	40~55	6	50	23.2	3.52	Y112M-2/4	Y132S-2/5.5	Y132S-27.5
50-32-125	2900	10~15	16~22	12.5	20	51.8	1.31	Y90S-2/1.5	Y90L-2/2.2	Y100L-2/3
50-32-160	2900	10~15	25.6~33	12.5	32	45.7	2.38	Y100L-2/3	Y112M-2/4	Y132S-2/5.5
50-32-200	1450	5~9	10~15	6.3	12.5	33.2	0.65	Y80M-4/0.75	Y90S-4/1.1	Y90L-4/1.5
	2900	10~15	40~60	12.5	50	39.2	4.34	Y132S-2/5.5	Y132S-2/7.5	Y160M1-2/1
50-32-250	1450	5~9	16~24	6.3	20	24.2	1.42	Y90L-4/1.5	Y100L-4/2.2	Y100L-4/3
	2900	10~15	64~86	12.5	80	30.1	9.04	Y160M1-2/11	Y160M2-2/15	Y160L-2/18.5
65-50-125	2900	20~30	16~24	25	20	61.8	2.2	Y100L-2/3	Y112M-2/4	Y132S-2/5.5
65-50-160	2900	20~30	25.6~33	25	32	57.5	3.79	Y132S-2/5.5	Y132S-2/7.5	Y160M1-2/11
65-40-200	1450	10~15	10~15	12.5	12.5	46.2	0.92	Y90S-4/1.1	Y90L-4/1.5	Y100L-4/2.2
	2900	20~30	40~60	25	50	52	6.54	Y132S-2/7.5	Y160M1-2/11	Y160M2-2/15
65-40-250	1450	10~15	16~22	12.5	20	39.1	1.74	Y100L-4/2.2	Y100L-4/3	Y112M-4/4
	2900	20~30	64~85	25	80	45	12.1	Y160M2-2/15	Y160L-2/18.5	Y200L-2/30
65-40-315	1450	10~15	25.6~33	12.5	32	30.2	3.61	Y132S-4/5.5	Y132S-4/5.5	Y132M-4/7.5
	2900	20~30	100~127	25	125	36.4	23.4	Y200L-2/30	Y200L-2/37	Y225M-2/45
80-65-125	2900	40~60	16~25	50	20	68.5	3.97	Y132S-2/5.5	Y132S-2/7.5	Y160M1-2/1
80-65-160	2900	40~60	29~35	50	32	67	6.5	Y132S-2/7.5	Y160M1-2/11	Y160M2-2/15
80-50-200	1450	20~30	10~15	25	12.5	58.1	1.46	Y100L-4/2.2	Y100L-4/3	Y112M-4/4
	2900	40~60	46~55	50	50	63	10.8	Y160M2-2/15	Y160L-2/18.5	Y200L-2/30

Performance parameter table

Model	N (r/min)	Q (m³/h)	H (m)	Rated flow rate (m³/h)	rated head (m)	Rated point efficiency (%)	shaft power (kW)	electromotor		
								Specific gravity 1.0	Specific gravity 1.35	Specific gravity 1.84
80-50-250	1450	20~30	16~22	25	20	52	2.62	Y100L-4/3	Y112M-4/4	Y132S-4/5.5
	2900	40~60	72~87	50	80	57	19.1	Y180M-2/22	Y200L-2/30	Y225M-2/45
80-50-315	1450	20~30	25.6~33	25	32	45.1	4.83	Y132S-4/5.5	Y132M-4/7.5	Y160M-4/11
	2900	40~60	100~127	50	125	50.1	34	Y200L-2/37	Y250M-2/55	Y280S-2/75
100-80-125	2900	68~120	16~24	100	20	73	7.46	Y160M1-2/11	Y160M2-2/15	Y160L-2/18.5
100-80-160	2900	70~120	26~35	100	32	73	11.9	Y160M2-2/15	Y160L-2/18.5	Y200L-2/30
100-65-200	1450	40~60	10~15	50	12.5	67	2.54	Y100L-4/3	Y112M-4/4	Y132S-4/5.5
	2900	80~120	45~53	100	50	71.2	19.1	Y180M-2/22	Y200L-2/30	Y225M-2/45
100-65-250	1450	40~60	16~22	50	20	63	4.32	Y132S-4/5.5	Y132M-4/7.5	Y160M-4/11
	2900	70~130	70~84	100	80	67	32.5	Y200L-2/37	Y250M-2/55	Y280S-2/75
100-65-315	1450	35~65	30~33	50	32	56.6	7.7	Y160M-4/11	Y160L-4/15	Y180M-4/18.5
	2900	80~120	115~127	100	125	61.1	55.7	Y280S-2/75	Y280M-2/90	Y315S-2/110
100-65-400	1450	30~60	41~52	50	50	50.1	13.6	Y160L-4/15	Y180M-4/18.5	Y180L-4/22
125-80-200	1450	60~90	10~15	75	12.5	71.2	3.58	Y132S-4/5.5	Y132M-4/7.5	Y160M-4/11
	2900	100~180	40~60	150	50	74.5	27.4	Y200L-2/30	Y225M-2/45	Y250M-2/55
125-80-250	1450	60~90	16~24	75	20	68.1	6	Y132M-4/7.5	Y160M-4/11	Y160L-4/15
	2900	100~180	60~85	150	80	71.6	45.6	Y250M-2/55	Y280S-2/75	Y280M-2/90
125-80-315	1450	60~90	30~35	75	32	61	10.7	Y160L-4/15	Y180M-4/18.5	Y180L-4/22
	2900	100~180	100~127	150	125	66	77.3	Y280M-2/90	Y315M-2/132	Y315L-2/160
125-100-200	1450	70~130	10~15	100	12.5	73	4.66	Y132S-4/5.5	Y132M-4/7.5	Y160M-4/11
	2900	160~240	40~55	200	50	76.1	35.8	Y225M-2/45	Y250M-2/55	Y280S-2/75
125-100-250	1450	80~120	16~24	100	20	71.1	7.66	Y160M-4/11	Y160L-4/15	Y180M-4/18.5
	- 2900	160~240	70~84	200	80	74.5	58.5	Y280S-2/75	Y280M-2/90	Y315M-2/132
125-100-315	1450	80~120	29~35	100	32	67.1	13	Y160L-4/15	Y180L-4/22	Y200L-4/30
	2900	160~240	96~127	200	125	70.5	96.5	Y315S-2/110	Y315L-2/160	Y315L-2/200
125-100-400	1450	70~140	42~55	100	50	61.2	22.2	Y200L-4/30	Y225S-4/37	Y250M-4/55
150-125-250	1450	150~300	13~23	200	20	76.4	14.3	Y180M-4/18.5	Y200L-4/30	Y225S-4/37
50-125-315	1450	160~240	28~35	200	32	74.7	23.3	Y200L-4/30	Y225S-4/37	Y250M-4/55
150-125-400	1450	150~300	40~55	200	50	70.7	38.5	Y225M-4/45	Y280S-4/75	Y280M-4/90
200-150-250	1450	250~520	12~23	400	20	79.3	27.5	Y200L-4/30	Y225M-4/45	Y250M-4/55
200-150-315	1450	250~520	28~35	400	32	79.2	44	Y250M-4/55	Y280S-4/75	Y280M-4/90
200-150-400	1450	300~550	40~53	400	50	77.8	70	Y280M-4/90	Y315S-4/110	Y315L-4/160
200-150-500	1450	300~550	62~82	400	80	73.5	118.5	Y315M-4/132	Y315L-4/200	Y355M-4/250
250-200-315	1450	500~760	20~33	640	32	81	68.8	Y280S-4/90	Y315S-4/110	Y315L-4/160
250-200-400	1450	500~760	40~53	640	50	80	108.9	Y315M-4/132	Y315L-4/160	Y315L-4/200
250-200-500	1450	500~780	68~80	660	75	78	172.8	Y315L-4/200	Y355M-4/250	Y355L-4/315
300-250-400	1450	650~1200	40~53	1000	50	82	166	Y315L-4/200	Y355M-4/250	Y355L-4/315
300-250-500	1450	850~1200	50~80	1000	75	81.5	250.5	Y355M-4/280	Y355L-4/315	Y400M-4/400

Installation Dimension Drawing



Installation dimension table

Pump model	Electromotor		Base number	Pump installation dimensions (mm)													Imported flange size (mm)				Export flange size (mm)					
	FRAME	Power (KW)		BL	BP	HC1	DL	H1	H2	HC2	BW	OH	a	f	X1/X2	n-øBH	D11	df1	D12	D13	k1-ød1	D21	df2	D22	d23	k2-ød2
AIH40-25-125	Y801-2	0.75	150 320 A	948	150	540	285	202	342	320	360	80	80	512	8	4-ø19	40	84	110	140	4-ø18	25	65	85	115	4-ø14
	Y802-2	1.1					310																			
	Y90S-2	1.5					335																			
	Y90L-2	2.2					380																			
AIH40-25-160	Y801-2	0.75	150 320 B	948	150	540	285	222	382	320	360	80	80	512	8	4-ø19	40	84	110	140	4-ø18	25	65	85	115	4-ø14
	Y802-2	1.1					310																			
	Y90S-2	1.5					335																			
	Y90L-2	2.2					380																			
	Y100L-2	3					380																			
AIH40-25-200	Y90S-2	1.5	150 320B	948	150	540	310	250	382	320	360	80	80	512	8	4-ø19	40	84	110	140	4-ø18	25	65	85	115	4-ø14
	Y90L-2	2.2					335																			
	Y100L-2	3					380																			
	Y112M-2	4					400																			
	Y132S-2	5.5					475																			
AIH50-32-125	Y132S-2	7.5	170 350 A	1048	170	600	475	202	342	320	360	80	80	512	8	4-ø19	50	99	125	165	4-ø18	32	76	100	140	4-ø18
	Y801-4	0.55					285																			
	Y90L-2	2.2					310																			
	Y100L-2	3					310																			
AIH50-32-160	Y801-4	0.55	150 320 B	948	150	540	285	222	382	320	360	80	80	512	8	4-ø19	50	99	125	165	4-ø18	32	76	100	140	4-ø18
	Y802-4	0.75					310																			
	Y90S-4	1.1					335																			
	Y90L-2	2.2					380																			
	Y100L-2	3					400																			
	Y112M-2	4					475																			
AIH50-32-200	Y132S-2	5.5	170 350 B	1048	170	600	475	250	430	320	360	80	80	512	8	4-ø19	50	99	125	165	4-ø18	32	76	100	140	4-ø18
	Y802-4	0.75					285																			
	y90S-4	1.1					310																			
	Y100L-2	3					335																			
	Y112M-2	4					380																			
	Y132S-2	5.5					400																			
	Y132S-2	7.5					400																			
Y160M-2	11	600																								
AIH50-32-250	Y801-4	0.55	190 400 A	1260	190	660	600	270	495	400	450	95	100	635	8/100	4-ø24	50	99	125	165	4-ø18	32	76	100	140	4-ø18
	Y90L-4	1.5					335																			
	Y100L-4	2.2					380																			
	Y100L-4	3					380																			
	Y132S-2	7.5					475																			
	Y160M-2	11					600																			
	Y160M-2	15					600																			
Y160L-2	18.5	645																								
AIH65-50-125	Y801-4	0.55	150 320 A	948	150	540	285	202	342	320	360	80	80	512	8	4-ø19	65	118	145	185	8-ø18	50	99	125	165	4-ø18
	Y802-4	0.75					310																			
	Y90L-2	2.2					335																			
	Y100L-2	3					380																			
	Y112M-2□	4					400																			
Y132S-2	5.5	475	222	362																						

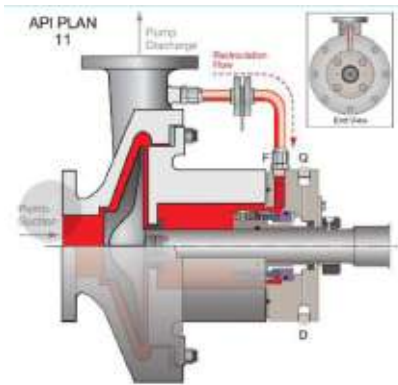
Pump model	Electromotor		Base number	Pump installation dimensions (mm)																Imported flange size (mm)				Export flange size (mm)			
	FRAME	Power (KW)		BL	BP	HCl	DL	H1	H2	H2C	Bw	OH	a	f	X1/X2	n-øBH	D11	df1	D12	D13	k1-ød1	D21	df2	D22	D23	k2-ød2	
AIH65-50-160	Y802-4	0.75	150 320 B	948	150	540	285	222	382	320	360	80	80	512	8	4-ø19	65	118	145	185	8-ø18	50	99	125	165	4-ø18	
	Y90S-4	1.1					310																				
	Y90L-4	1.5					335																				
	Y100L-2	3	170 350 A	1048	170	600	380	350	390	80	80	512	8	4-ø19	65	118	145	185	8-ø18	50	99	125	165	4-ø18			
	Y112M-2	4					400																				
	Y132S-2	5.5					400																				
	Y132S-2	7.5	170 350 B	1048	170	600	400	350	390	80	80	512	8	4-ø19	65	118	145	185	8-ø18	50	99	125	165	4-ø18			
Y132S-2	7.5	400																									
AIH65-40-200	Y90S-4	1.1	150 320 B	948	150	540	310	250	430	350	390	80	100	512	8	4-ø19	65	118	145	185	8-ø18	40	84	110	150	4-ø18	
	Y90L-4	1.5					335																				
	Y100L-4	2.2					380																				
	Y132S-2	5.5	170 350 A	1048	170	600	475	250	430	350	390	80	100	512	8	4-ø19	65	118	145	185	8-ø18	40	84	110	150	4-ø18	
	Y132S-2	7.5					475																				
	Y160M-2	11					475																				
	Y160M-2	15	190 400 A	1260	190	660	400	400	450	95	100	635	11/100	4-ø24	65	118	145	185	8-ø18	40	84	110	150	4-ø18			
Y160M-2	15	400																									
AIH65-40-250	Y100L-4	3	190 400 B	1160	190	660	380	270	495	400	450	95	100	635	8	4-ø24	65	118	145	185	8-ø18	40	84	110	150	4-ø18	
	Y112M-4	4					400																				
	Y132S-4	5.5					475																				
	Y160M-2	11	225 490 A	1500	225	840	600	270	495	490	550	100	100	635	11/100	4-ø28	65	118	145	185	8-ø18	40	84	110	150	4-ø18	
	Y160M-2	15																									400
	Y160L-2	18.5																									400
	AIH65-40-315	Y200L-2	30	250 550 A	1700	250	940	645	310	535	550	610	110	100	635	140	4-ø28	65	118	145	185	8-ø18	40	84	110	150	4-ø18
Y112M-4		4	400																								
Y132S-4		5.5	225 490 B	1500	225	840	457	290	540	490	550	100	125	805	8	4-ø28	65	118	145	185	8-ø18	40	84	110	150	4-ø18	
Y132M-4		7.5					515																				
Y180M-2		22					550																				
Y200L-2		30	300 600 C	1860	300	600/600	775	310	560	550	610	110	125	805	11/140	6-ø28	65	118	145	185	8-ø18	40	84	110	150	4-ø18	
Y200L-2		37					775																				
Y225M-2	45	815																									
Y250M-2	55	300 600 B	1860	300	600/600	930	360	610	600	665	120	125	805	140	6-ø28	65	118	145	185	8-ø18	40	84	110	150	4-ø18		
Y250M-2	55					930																					
AIH80-65-125	Y802-4	0.75	150 320 B	948	150	540	285	222	382	320	360	80	100	512	8	4-ø19	80	132	160	200	8-ø18	65	118	145	185	8-ø18	
	Y90S-4	1.1					310																				
	Y90L-4	1.5					335																				
	Y112M-2	4	170 350 A	1048	170	600	400	250	382	350	390	80	100	512	8	4-ø19	80	132	160	200	8-ø18	65	118	145	185	8-ø18	
	Y132S-2	5.5					475																				
	Y132S-2	7.5					475																				
	Y160M-2	11	190 400 A	1260	190	660	600	250	410	400	450	95	100	512	8/100	4-ø24	80	132	160	200	8-ø18	65	118	145	185	8-ø18	
Y160M-2	11	400																									
AIH80-65-160	Y90S-4	1.1	170 350 C	1048	170	600	310	250	430	350	390	80	100	512	8	4-ø19	80	132	160	200	8-ø18	65	18	145	185	8-ø18	
	Y90L-4	1.5					335																				
	Y100L-4	2.2					380																				
	Y132M-2	7.5	170 350 A	1048	170	600	475	250	430	400	450	95	100	512	8	4-ø19	80	132	160	200	8-ø18	65	18	145	185	8-ø18	
	Y160M-2	11					400																				
	Y160M-2	15					400																				
	AIH80-50-200	Y100L-4	2.2	170 350 C	1048	170	540	380	250	450	350	360	80	100	512	8	4-ø19	80	132	160	200	8-ø18	50	99	125	165	4-ø18
Y100L-4		3	600																								
Y160M-2		15	400																								
Y160L-2		18.5	190 400 A	1260	190	660	645	250	450	400	450	95	100	512	11/100	4-ø24	80	132	160	200	8-ø18	50	99	125	165	4-ø18	
Y160M-2		15					400																				
Y160L-2		18.5					645																				
AIH80-50-250[		Y100L-4	3	190 400 B	1160	190	660	380	270	495	400	450	95	125	635	8	4-ø24	80	132	160	200	8-ø18	50	99	125	165	4-ø18
	Y132S-4	5.5	470																								
	Y132M-4	7.5	515																								
	Y160M-2	11	225 490 A	1500	225	840	645	270	495	490	550	100	125	635	11/100	4-ø28	80	132	160	200	8-ø18	50	99	125	165	4-ø18	
	Y180M-2	22					670																				
	Y200L-2	30					775																				
	Y225M-2	45	250 550 A	1700	250	940	815	310	535	550	610	110	125	635	11/100	4-ø28	80	132	160	200	8-ø18	50	99	125	165	4-ø18	
Y225M-2	45	815																									
Y132M-4	7.5	515																									
AIH80-50-315	Y160M-4	11	250 550 B	1700	250	940	600	335	615	550	610	110	125	805	11/140	4-ø28	80	132	160	200	8-ø18	50	99	125	165	4-ø18	
	Y160L-4	15					645																				
	Y200L-2	30					775																				
	Y200L-2	37	300 600 C	1860	300	600/600	775	335	615	600	665	120	125	805	140	6-ø28	80	132	160	200	8-ø18	50	99	125	165	4-ø18	
	Y225M-2	45					815																				
	Y250M-2	55					930																				
	AIH100-80-125	Y90L-4	1.5	170 350 C	1048	170	600	335	250	430	350	390	80	100	510	8	4-ø19	100	156	180	220	8-ø18	80	132	160	200	8-ø18
Y100L-4		2.2	380																								
Y100L-4		3	475																								
Y132S-2		7.5	170 350 A	1048	170	600	475	250	430	400	450	95	100	510	11/100	4-ø24	100	156	180	220	8-ø18	80	132	160	200	8-ø18	
Y160M-2		11					600																				
Y160M-2		15					645																				

Pump model	Electromotor		Base number	Pump installation dimensions (mm)												Imported flange size (mm)				Export flange size (mm)								
	FRAME	Power (kW)		BL	BP	HC1	DL	H1	H2	HC2	BW	OH	a	f	X1/X2	n-øBH	D11	df1	D12	D13	k1-ød1	D21	df2	D22	d3	k2-ød2		
AIH100-80-160	Y100L-4	2.2	190 400 B	1160	190	660	380	250	450	400	450	95	100	635	8	4-ø24	100	156	180	220	8-ø18	80	132	160	200	8-ø18		
	Y100L-4	3																									440	490
	Y112M-4	4	210 440 A	1300	210	740	400			11/100	4-ø28																	
	Y160M-2	11	225 490 A	1500	225	840	520					490			550	100												
	Y160M-2	15																										
	Y160L-2	18.5	250 550 A	1700	250	940	550			610	110																	
AIH100-65-200	Y100L-4	3	190 400 B	1260	190	660	380	270	495	320	360	80	100	512	8	4-ø19	100	156	180	220	8-ø18	65	118	145	185	8-ø18		
	Y112M-4	4																									440	490
	Y132s-4	5.5	210 440 A	1300	210	740	475			440	490	95																
	Y160L-2	18.5	225 490 A	1500	225	840	645								490	550											100	
	Y180M-2	22								250 550 A	1700	250																940
	Y200L-2	30	815	335	560																							
Y225M-2	45	775				310	535	550	610	110																		
AIH100-65-250	Y132s-4	3	210 440 A	1300	210	740	470	290	540	440	490	95	125	635	8	4-ø24	100	156	180	220	8-ø18	65	118	145	185	8-ø18		
	Y132M-4	7.5																									515	290
	Y160M-4	11	225 490 A	1500	225	840	600			490	550	100																
	Y180M-2	22													250 550 A	1700											250	940
	Y200L-2	30	815	335	585																							
	Y200L-2	37				775	310			560	550	610			110													
Y225M-2	45	815	335	585	550	610	110																					
Y250M-2	55	300 600 A	1860	300	600/600	930	360	610	600	665	120																	
AIH100-65-315	Y160M-4	11	250 550 B	1700	250	940	600	335	615	550	610	110	125	805	11/140	4-ø28	100	156	180	220	8-ø18	65	118	145	185	8-ø18		
	Y160L-4	15																									645	335
	Y225M-2	45	300 600 C	1860	300	600/600	930			360	640	600			665	140												
	Y250M-2	55	300 600 B																								600/600	1000
	Y280S-2	75	330 670 A	2220	330	600/600	1050																					
	Y280M-2	90								1000	390	670			670	730												
AIH100-65-400	Y160L-4	15	250 550 B	1700	250	940	600	620	390	745	550	610	110	125	805	11/140	04-ø28	100	156	180	220	8-ø18	65	118	145	185	8-ø18	
	Y180M-4	18.5																										670
	Y180L-4	22																										
	Y112M-4	4	190 400 B	1260	190	660	400	400	450	95																		
AIH125-80-200	Y132s-4	5.5	210 440 A	1300	210	740	470				270	520	440	490	95	125	635	8	4-ø24	125	184	210	250	8-ø18	80	132	160	200
	Y132M-4	7.5						508	290	520																		
	Y200L-2	30	250 550 A	1700	250	940	775						310	560	550			610	110									
	Y225M-2	45						815	335	585																		
	Y250M-2	55	300 600 A	1860	300	600/600	930						360	610	600			665	120									
	AIH125-80-250	Y160M-4	11	250 550 B	1700	250	940	600	335	615			550	610	110			125	805									
Y160L-4		15	645								335	615				550	610			110								
Y180M-4		18.5		670	330	600/600	930	360					640	600	665						120							
Y250M-2		55	300 600 B								1860	300				600/600	1000			390		670	670	730	140			
Y280S-2		75	330 670 A	2220	330	600/600	1050																					
Y280M-2		90						1000			390	670	670	730														
AIH125-80-315	Y160L-4	15	250 550 B	1700	250	940	645	360	675	550	610	110	125	805	11/140	4-ø28	125	184	210	250	8-ø18	80	132	160	200	8-ø18		
	Y180M-4	18.5																									814	
	Y180L-4	22								710																		
	Y280M-2	90	330 670 A	2220	330	600/600	930				390	705			600	665											140	
	Y315M-2	132	320 780 A	2150	320	700/700	1250			425	740	780			840	115												
	Y315L-2	160																										
AIH125-100-200	Y132s-4	5.5	210 440 A	1300	210	740	475	290	570	440	490	95	125	635	8	4-ø24	125	184	210	250	8-ø18	100	156	180	220	8-ø18		
	Y132M-4	7.5																									515	290
	Y160M-4	11	225 490 A	1500	225	840	600			490	550	100																
	Y200L-2	30													250 550 A	1700											250	940
	Y225M-2	45	815	335	615																							
	Y250M-2	55				360	640			600	665	120																
AIH125-100-250	Y280S-2	75	300 600 A	1860	300	600/600	930	390	670	600	665	120																
	Y160M-4	11	250 550 B	1700	250	940	600	335	615	550	610	110	140	805	11/140	4-ø28	125	184	210	250	8-ø18	100	156	180	220	8-ø18		
	Y160L-4	15																									645	335
	Y180M-4	18.5	670	330	600/600	930	360			640	600	665			120													
	Y250M-2	55														300 600 B											1860	300
	Y280M-2	90	1000	390	670	670	730																					
Y280S-2	75	1050																										

Installation dimension table

Pump model	Electromotor		Base number	Pump installation dimensions (mm)												Imported flange size (mm)				Export flange size (mm)													
	FRAME	Power (KW)		BL	BP	HC1	DL	H1	H2	HC2	Bw	OH	a	f	×1×2r	n-ØBH	D11	df1	D12	D13	k1-ød1	D21	df2	D22	D23	k2-ød2							
AIH125-100-315	Y160L-4	15	250 550 B	1700	250	940	645	360	675	550	610	110	140	805	11/140	4-ø28	125	184	210	250	8-ø18	100	156	180	220	8-ø18							
	Y180L-4	22					815																										
	Y200L-4	30					710																										
	Y280M-2	90	330 670 A	2220	330	600/600	930	390	705	670	730	40	140	805	140	6-ø28																	
	Y315S-2	110	320 780 A	2150	320	700/700	1200																										
	Y315M-2	132					1250																										
	Y315L-2	160																															
AIH125-100-400	Y180L-4	22	300 600C	1860	300	600/600	710	390	745	600	665	120	140	805	140	6-ø28	125	184	210	250	8-ø18	100	156	180	220	8-ø18							
	Y200L-4	30					775																										
	Y225S-4	37					820																										
	Y225M-4	45	845																														
	Y250M-4	55	930																														
AIH150-125-250	Y160L-4	15	250 550 B	1700	250	940	645	360	715	550	610	10	140	805	11/140	4-ø28	150	211	240	285	8-ø23	125	84	210	250	8-ø18							
	Y180M-4	18.5					670																										
	Y180L-4	22					710																										
	Y200L-4	30	300 600C	1860	300	600/600	775	600	665	120	140	805	11/140	4-ø28																			
AIH150-125-315	Y180L-4	22	300 600C	1860	300	600/600	710								390	745	600	665	120	140	805	140	6-ø28	150	211	240	285	8-ø23	125	184	210	250	8-ø18
	Y200L-4	30					775																										
	Y225S-4	37					820																										
	Y225M-4	45	845																														
AIH150-125-400	Y250M-4	55	300 600C	1860	300	600/600	930	425	825	600	665	120	140	805	11/140	6-ø28	150	211	240	285	8-ø23	125	184	210	250	8-ø18							
	Y225S-4	37					710																										
	Y225M-4	45					775																										
	Y280S-4	75	330 670 A	2220	330	600/600	820	670	730	140	140	805	11/140	6-ø28																			
AIH200-150-250	Y200L-4	30	300 600 C	1860	300	600/600	755								390	765	600	665	20	150	805	140	6-ø28	200	266	295	340	12-ø23	150	211	240	285	8-ø23
	Y225S-4	37					820																										
	Y250M-4	55					930																										
	AIH200-150-315	Y225M-4	45	330 670B	2220	330	600/600	845	425	825	670	730	140	150	920	180	6-ø28	200	266	295	340	12-ø23	150										
Y250M-4		55	930																														
Y280S-4		75	1000																														
Y280M-4		90	1050																														
AIH200-150-400	Y280S-4	75	330 670 B	2220	330	600/600	5	425	875	670	730	140	160	920	180	6-ø28	200	266	295	340	12-ø23	150	211	240	285	8-ø23							
	Y280M-4	90																															
	Y315M-4	132					800/800																				1250	535	985	820	890	160	
AIH200-150-500	Y315M-4	132	375 820A	2435	375	800/800	1250	595	1095	920	990	160	180	920	180	6-ø28											200						266
	Y315L-4	200	375 920 A	2660			900/900										1365																
	YR355M-4	250	1570																														
AIH250-200-315	Y280S-4	90	330 670 B	222	0330	600/600	1050	425	875	670	730	160	180	920	225	6-ø28	250	319	355	405	12-ø26	200	266	295	340	12-ø23							
	Y315S-4	110					800/800																				1200						
	Y315L-4	160					1250																										
AIH250-200-400	Y315M-4	132	375 820 A	2435	375	800/800	1250	575	1075	820	890	160	180	920	225	6-ø28											250	319	355	405	12-ø26	200	266
	Y315L-4	160					900/900										1365																
	Y315L-4	200					375 920 A										2660	900/900	1570														
AIH250-200-500	Y315L-4	200	375 820 A	2435	375	800/800	1250	620	1180	820	890	160	225	980	225	6-ø28	250		319	355	405	12-ø26	200	266	295	340							
	YR355M-4	250					375 920 B											2660									900/900	1570					
	YR355L-4	315																															
AIH300-250-400	Y315L-4	200	375 820B	2435	375	800/800	1250	645	1145	820	890	180	225	920	250	6-ø28		300									370	410	460	12-ø26	250	319	355
	YR355M-4	250					375 920 B										2660		900/900	570													
	YR355L-4	315																															
AIH300-250-500	YR355M-4	250	375 920B	2660	375	900/900	1570	645	1315	920	990	200	225	980	250	6-ø28	250		319	355	405	12-ø26	200	266	295	340							
	YR355L-4	315																															
	YR400-4	400					375 920C											2800									900/900						

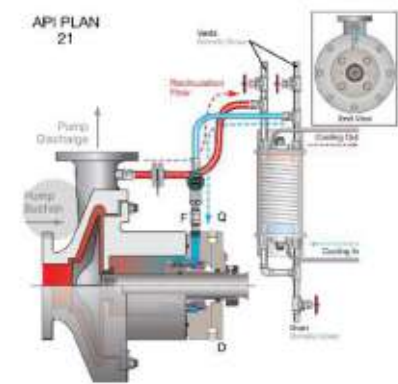
Common API flushing solutions



Scheme description:
From the outlet of the pump, it passes through the limiting orifice plate and enters the sealing chamber for sealing flushing;
Default single seal flushing scheme

Reason for adoption:
Sealed cavity heat dissipation;
Increase the pressure of the sealed chamber and the vaporization margin of the liquid;
Horizontal pump sealing chamber exhaust.

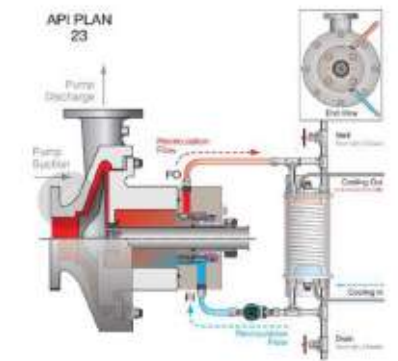
Application scenarios:
Generally used for cleaning liquids;
Non polymerized liquid.



Scheme description:
From the outlet of the pump, it enters the sealed chamber through the flow restriction orifice plate and cooler in the middle;
Compared to PLAN11, it has added a cooler for heat dissipation.

Reason for adoption:
Sealed cooling;
Reduce fluid temperature to increase vaporization margin.

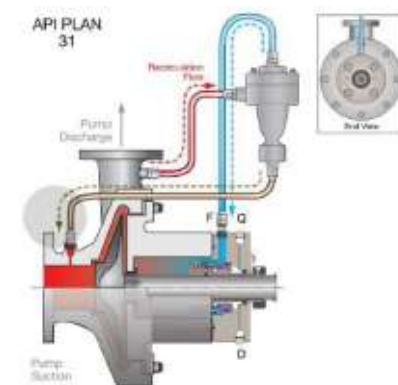
Application scenarios:
High temperature conditions, usually below 177C;
Hot water above 80 °C;
Clean non polymerized liquid.



Scheme description:
Flush the seal from the internal pumping device through the cooler;
Standard flushing plan for hot water conditions.

Reason for adoption:
Efficient sealed cooling under low cooling load;
Increase the vaporization margin of liquid and improve the lubricity of water.

Application scenarios:
High temperature conditions, hot hydrocarbons;
Clean non polymerized liquid.

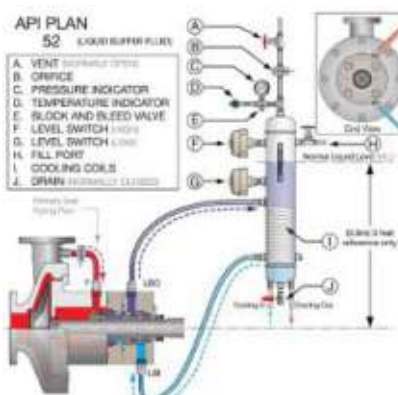


Scheme description:
After flowing out from the outlet of the pump and passing through the cyclone separator, the clean flushing liquid is sealed and flushed;
Centrifuge to separate solid particles and return them to the pump inlet.

Reason for adoption:
Sealed cavity heat dissipation;
Remove solid particles from the flushing solution and sealed chamber.

Application scenarios:
Unclean or contaminated liquids, water containing sand or pipe debris;
Non polymer liquid

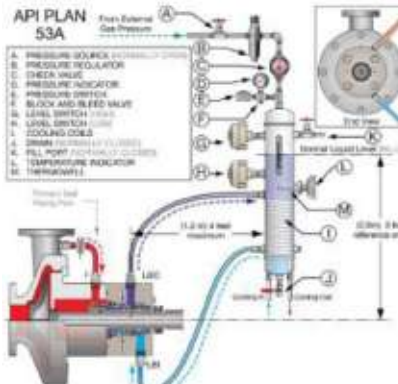
Common API flushing solutions



Scheme description:
Flow through the storage tank using non pressure buffer circulation
The pumping ring drives the circulation of fluid through the double seal.

Reason for adoption:
Very low process emissions, no process medium pollution allowed;
The outer seal serves as the primary seal for safety backup

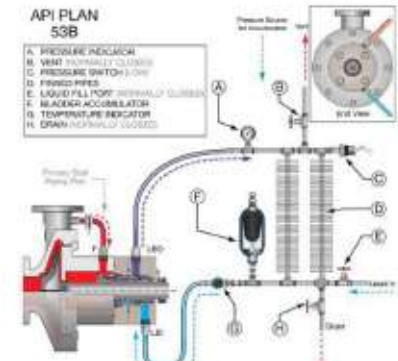
Application scenarios:
Used in conjunction with double seals (series);
Used for pumping hazardous and toxic fluids;
Highly saturated vapor pressure liquids and light hydrocarbons;
Thermal oil body.



Scheme description:
Circulating pressurized isolation fluid through the storage tank;
The pumping ring drives the circulation of fluid through the double seal.

Reason for adoption:
Isolation process fluid;
Zero discharge of process fluid

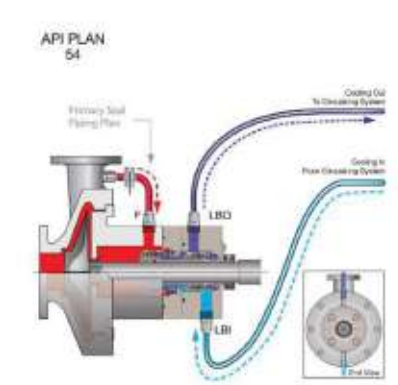
Application scenarios:
Used in conjunction with double seals (series);
Used for pumping hazardous and toxic fluids;
Highly saturated vapor pressure liquids and light hydrocarbons;
Unclean, abrasive or polymeric liquids;
Vacuum working condition.



Scheme description:
Through the storage tank, pressurized isolation fluid circulation is used, accompanied by a bladder type accumulator;
The pumping ring drives the circulation of fluid through the double seal.

Reason for adoption:
Isolation process fluid;
Zero discharge of process fluids;
The pressure is higher than the 53A scheme.

Application scenarios:
Used for pumping hazardous and toxic fluids;
Highly saturated vapor pressure liquids and light hydrocarbons;
Unclean, abrasive or polymeric liquids.



Scheme description:
The pressurized isolation fluid is circulated through an external system.

Reason for adoption:
Isolation process fluid;
Zero discharge of process fluids.

Application scenarios:
Used in conjunction with double seals (series);
Unclean, abrasive or polymeric liquids;
Highly saturated vapor pressure liquid, light hydrocarbon.