

Leading the Rise of Chinese Pump Industry

DG型锅炉给水泵

DG type boiler feed pump

➤ The hydraulic components are optimized by CFD flow field analysis technology

The hydraulic components are optimized and designed by CFD flow field analysis technology with excellent performance

➤ The central support pump is supplied by the integrated cooling water pipeline

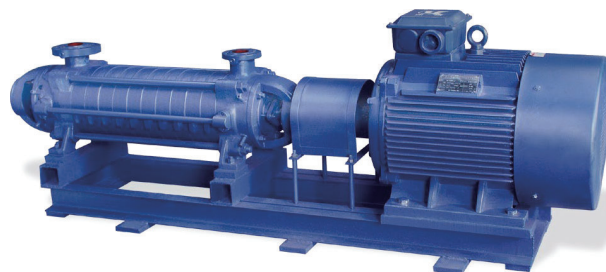
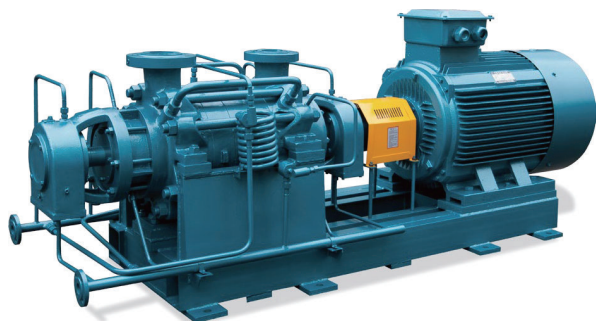
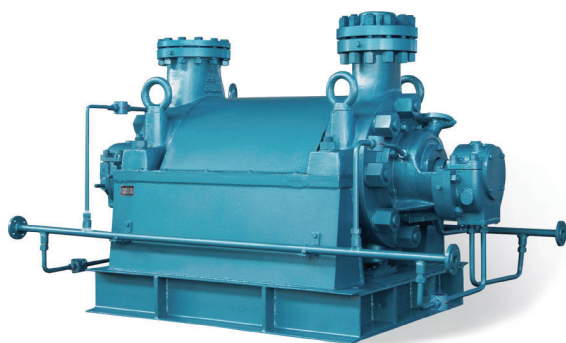
The central support pump adopts cooling water integrated pipeline for water supply, which is convenient for users to install and use

➤ High pressure water pump various monitoring instruments are complete

High pressure feed water pump all kinds of monitoring instruments, to achieve full monitoring of pressure, temperature, vibration

➤ Reinforcement design of bearing shell and balance parts

The pressure bearing shell can be forged with excellent pressure bearing performance; the balance parts are made of stainless steel and heat treated with good wear resistance and long service life



SKF Equipped



ISO9001 2015 版国际质量体系认证
ISO9001 Certified(version 2015)

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Kaiquan became the first company in the world to allow the use of SKF Equipped trademarks on equipment!

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Shanghai Kaiquan is a large-scale comprehensive pump industry group integrating design/production/sales of pumps, water supply equipment and pump control equipment. The group has more than 6,000 employees, including more than 800 engineering and technical personnel, mainly composed of well-known pump experts, professors, doctors and masters, and intermediate and senior engineers, forming an echelon talent structure with innovative thinking. It has 7 enterprises and 5 industrial parks in Shanghai, Zhejiang, Hebei, Liaoning, Anhui and other provinces and cities. Shanghai Kaiquan Group has won the "Shanghai Top 100 High-tech Enterprises", "Shanghai Famous Brand Products", "China Quality Credit AAA Level", "National Contract Credit Rating AAA Level", "Quality, Credit and Service Three Excellent Enterprise", etc. Honorable title. The products serve the construction (including heating and air conditioning), municipal, nuclear power, thermal power, petrochemical, large-scale water conservancy and other fields.

SKF Group is constantly committed to reducing friction, making machinery and equipment run faster, longer service life, more environmentally friendly and safer. Adhering to the business philosophy of efficiency and sustainability, SKF Group is the world's leading supplier of products, solutions and services in the fields of rolling bearings, seals, mechatronics, services and lubrication systems. Services include technical support, maintenance services, condition monitoring, asset efficiency optimization, engineering consulting and training.

Today, SKF has more than 130 production bases around the world, sales companies in more than 130 countries, and more than 17,000 dealer stores, providing customers all over the world with customized solutions and products that meet global quality standards.

Catalogue

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Preface

For the work of the pump unit, it is recommended that the operation should be conducted by the personnel who are familiar with the disassembly work or have received professional training, and the provisions of the operation instructions should be strictly followed.

The pump products of Shanghai Kaiquan Pump (Group) Co., Ltd. are all produced according to relevant standards and under strict quality control. Under the correct installation, good maintenance and stable working conditions, the company's products can be in the normal working state. The water pump shall not operate beyond the operating conditions specified in the Technical Agreement for Boiler Feed Water Pump.

Basis: GB 9969.1-1998 general principles of instructions for use of industrial products

Overview

DG series boiler feed pump is a segmented multi-stage centrifugal pump, in which the water inlet segment, intermediate segment, and the water outlet segment are integrally connected by tension bolts. Both water inlet port and water outlet port face vertically upward. The static seals among the water inlet segment, intermediate segment, and water outlet segment of the pump adopt double seals, namely metal face seal and O-ring. The hydraulic parts are design optimized by CFD flow field analysis technology to ensure excellent performance. The impeller and the guide vane are high-precision cast to achieve smooth flow passage, high dimensional accuracy, and high efficiency. The rotor is dynamically balanced to ensure higher accuracy grade than industry's level. Observed from the drive direction, the pump is rotating clockwise.

DG medium/low pressure boiler feed pump adopts anchor support structure and meets the requirements of GB/T5657-1995 Technical Specification for Centrifugal Pump (III).

ZDG high temperature boiler feed pump, DG sub-high pressure and high pressure boiler feed pump adopt integrally central support structure, which works with sliding key system to effectively compensate the thermal deformation.

ZDG high temperature boiler feed pump and DG sub-high pressure and high pressure boiler feed pump adopt coolant integrated pipeline for water supply and can use mechanical seal self-flushing system upon the user's request so that the user is unnecessary to supply the mechanical seal flushing water to ease the installation and operations.

DG high pressure boiler feed pump is provided with complete monitoring instruments to realize the comprehensive pressure and pressure monitoring. The monitoring functions for vibration, speed, and reverse protection can be installed upon the user's request.

ZDG high temperature boiler feed pump and DG sub-high pressure boiler feed pump meet the requirements of GB/T5656-1995 Technical Specification for Centrifugal Pump (II).

DG high pressure boiler feed pump meets the requirements of JB/T8059-200X Technical Specification for High Pressure Boiler Feed Pump.

Typical Applications

Boiler feed water and other high temperature clean water

Working Condition

Nominal speed:	2980r/min
Medium:	Boiler feed water, clean water, and other fluids with physical and chemical characteristics similar to water
Medium temperature:	$\leq 105^{\circ}\text{C}$ for DG medium/low pressure boiler feed pump. If the medium temperature is $\geq 80^{\circ}\text{C}$, the cooling by external coolant is required. $\leq 160^{\circ}\text{C}$ for ZDG high temperature boiler feed pump and DG sub-high pressure and high pressure boiler feed pump, must be external cooling water and use mechanical seal cooling flushing.
Capacity range:	4~185m ³ /h for DG medium/low pressure boiler feed pump. 12~500m ³ /h for ZDG high temperature boiler feed pump and DG intermediate and high pressure boiler feed pumps.
Maximum working pressure:	$\leq 7\text{MPa}$ for suction port pressure + pump maximum pressure for DG medium/low pressure boiler feed pump and ZDG high pressure boiler feed pump. $\leq 10\text{MPa}$ for suction port pressure + pump maximum pressure for DG sub-high pressure boiler feed pump. $\leq 20\text{MPa}$ for suction port pressure + pump maximum pressure for DG high pressure boiler feed pump.

Main Materials

(Standard configuration materials can be changed according to user's needs)

Part Name	DG Medium/Low Pressure Pump	ZDG High Temperature Pump	DG Sub-High Pressure Pump	DG High Pressure Pump
Water inlet segment	HT250	ZG230-450	ZG230-450	ZG270-500
Intermediate segment	HT250	ZG230-450	ZG230-450	ZG270-500
Water outlet segment	HT250	ZG230-450	ZG230-450	ZG270-500
Guide vane	ZG230-450	ZG230-450	ZG230-450	ZG1Cr13
Impeller	ZG230-450	ZG230-450	ZG230-450	ZG1Cr13
Shaft	40Cr	40Cr	40Cr	Forged40CrV
Seal ring		ZCuSn10Pb1	38CrMoAl,nitriding treated	1Cr13MoS
Guide vane sleeve	ZCuSn10Pb1	ZCuSn10Pb1	38CrMoAl,nitriding treated	1Cr13MoS
Balance plate	3Cr13	3Cr13	3Cr13	3Cr13
Balance sleeve	3Cr13	3Cr13	38CrMoAl	
Balance disc	2Cr13	2Cr13	2Cr13	2Cr13
Balance spacer sleeve			2Cr13	
Tension bolt	45	40Cr	40Cr	40Cr

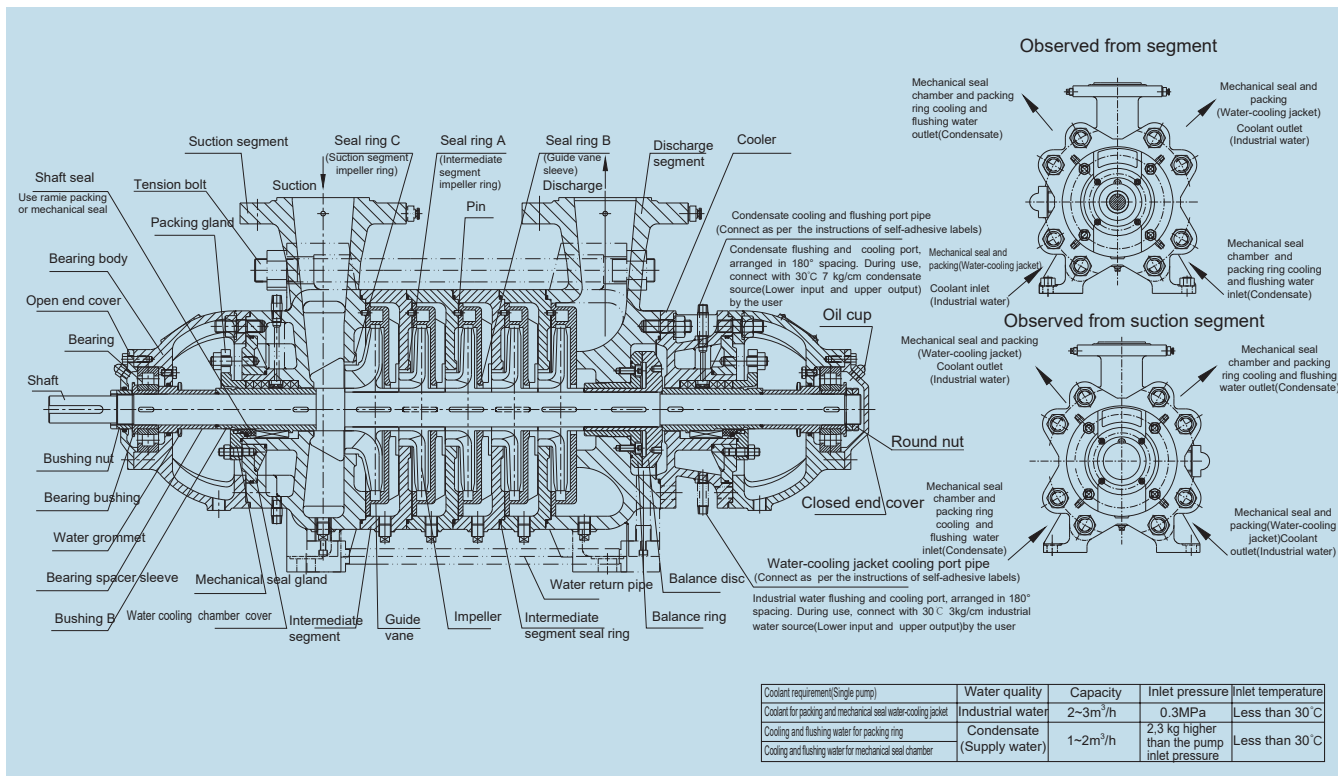
Notice: The standard material for impellers of DG6-25, DG12-25, DG15-50, DG25-30, DG25-50, DG45-80, DG46-30, DG46-50, DG48-50, DG65-80 is ZG1Cr13. The standard material for impeller and guide blade of DG200-50, DG280-43 and DG360-40 is HT250.

Optional material

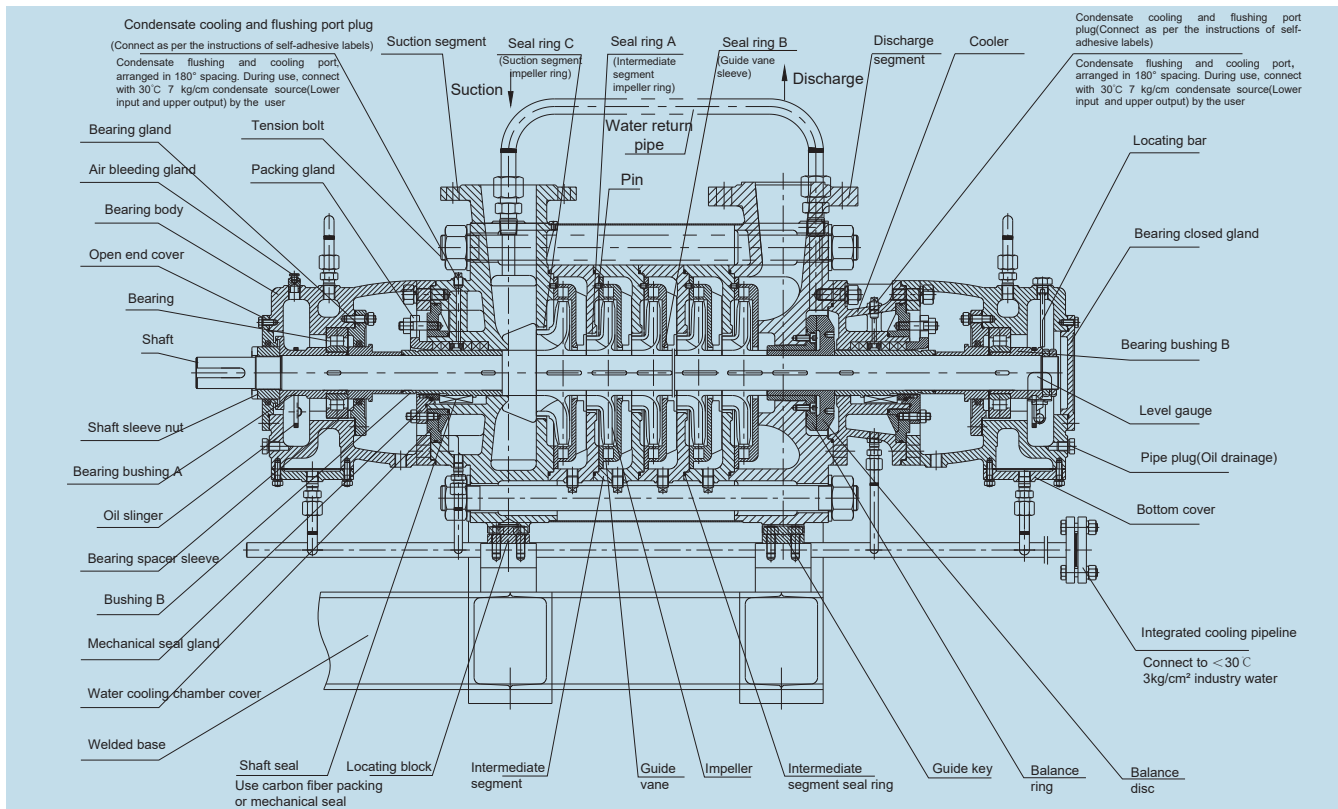
Part Name	DG Medium/Low Pressure Pump	ZDG High Temperature Pump	DG Sub-High Pressure Pump	DG High Pressure Pump
Water inlet segment	QT500-7、ZG230-450、1Cr13、2Cr13、304、316L	1Cr13、2Cr13、304、316L、forged Q345B	1Cr13、304、316L、forged 35、forged Q345B	1Cr13、304、316L、forged 35、forged Q345B
Intermediate segment	QT500-7、ZG230-450、1Cr13、2Cr13、304、316L	1Cr13、2Cr13、304、316L、forged Q345B	1Cr13、304、316L、forged 35、forged Q345B	1Cr13、304、316L、forged 35、forged Q345B
Water outlet segment	QT500-7、ZG230-450、1Cr13、2Cr13、304、316L	1Cr13、2Cr13、304、316L、forged Q345B	1Cr13、304、316L、forged 35、forged Q345B	1Cr13、304、316L、forged 35、forged Q345B
Guide vane	1Cr13、2Cr13、304、316L	1Cr13、2Cr13、304、316L	1Cr13、304、316L	304、316L
Impeller	1Cr13、2Cr13、304、316L	1Cr13、2Cr13、304、316L	1Cr13、304、316L	304、316L
Shaft	2Cr13、forged 40CrV	2Cr13、forged 40CrV	Forged 40CrV	Forged 40CrV
Seal ring	3Cr13、316L	3Cr13、316L		
Guide vane sleeve	3Cr13、316L	3Cr13、316L		
Material			Execution Standard	
HT200、HT250			GB9439-2010	
ZG230-450、ZG270-500			GB11352-2009	
ZG1Cr13、2Cr13、3Cr13、304、316L			GB1220-2007	
40Cr、40CrV、1Cr13MoS、38CrMoAl			GB3077-1999	
Q235、Q345B			GB700-2006	
35、45、16Mn			GB699-1999	
ZCuSn10Pb1			GB1176-1987	
QT500-7			GB1348-2009	

DG Type Boiler Feed Water Pump Structural Diagram

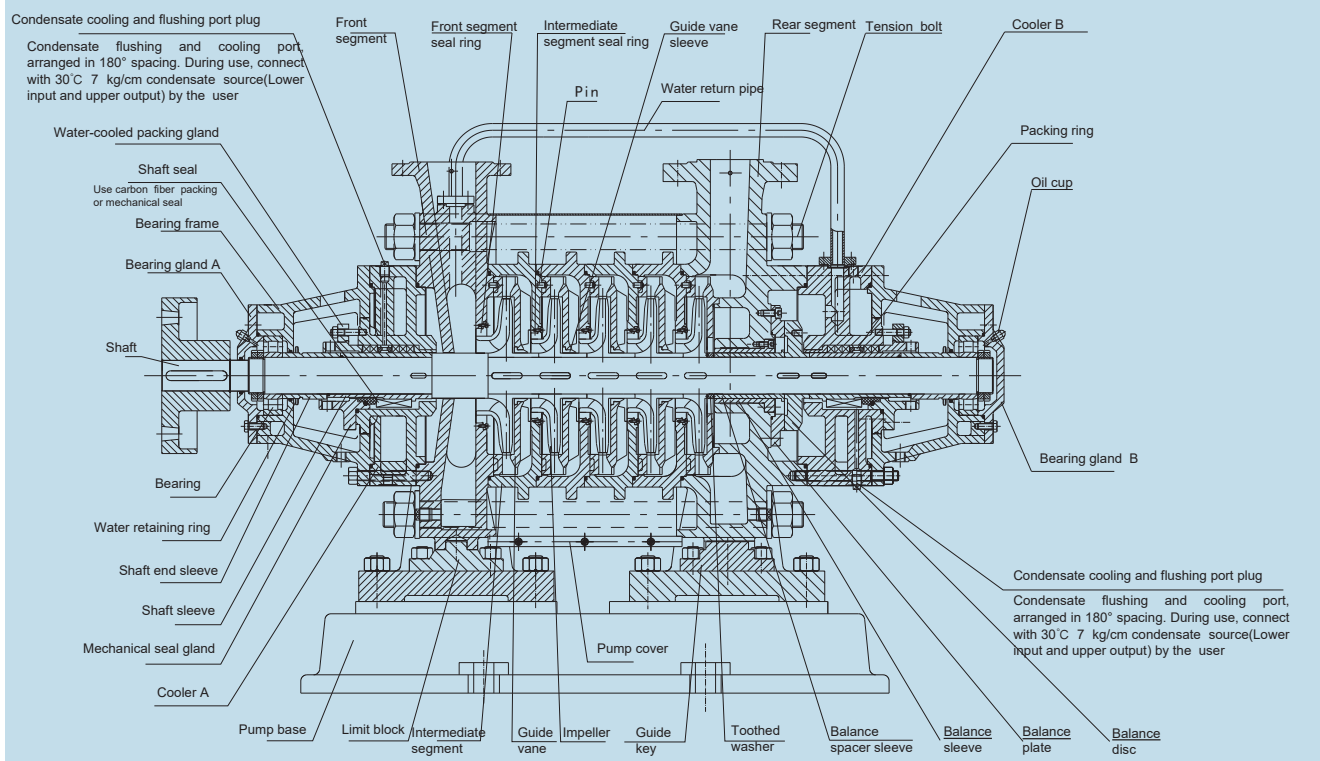
5.1 DG medium/low pressure boiler feed pump structural diagram



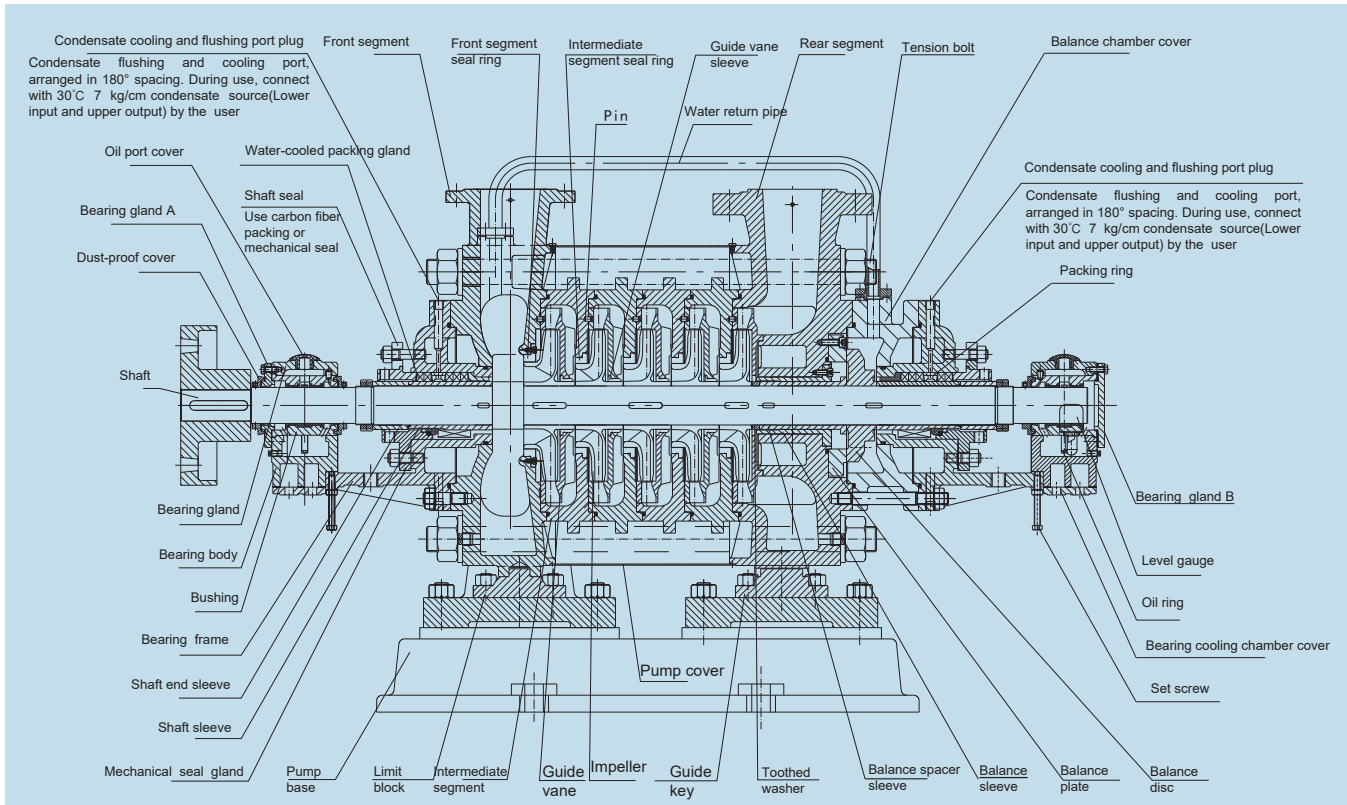
5.2 ZDG high temperature boiler feed pump structural diagram



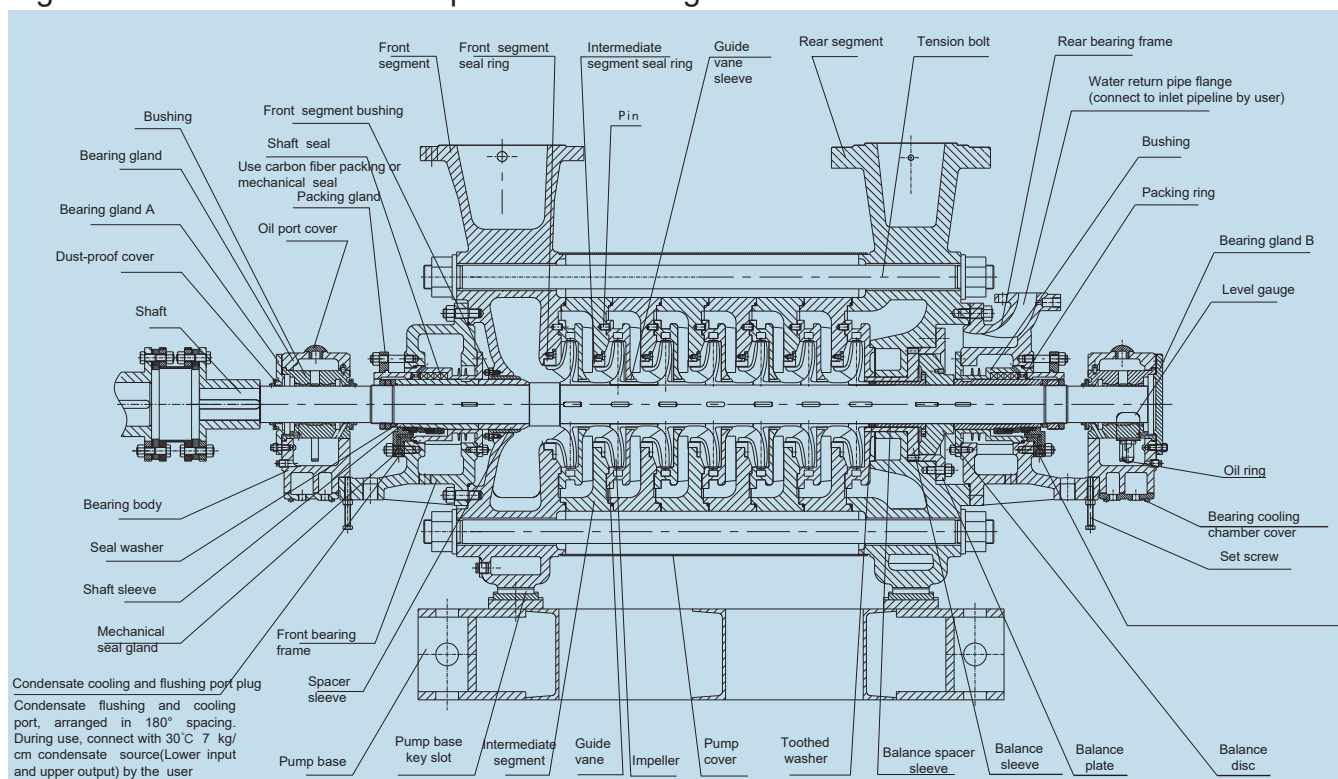
5.3 DG12-80, DG25-80, DG36-80, and DG45-80 sub-high pressure boiler feed pumps structural diagram



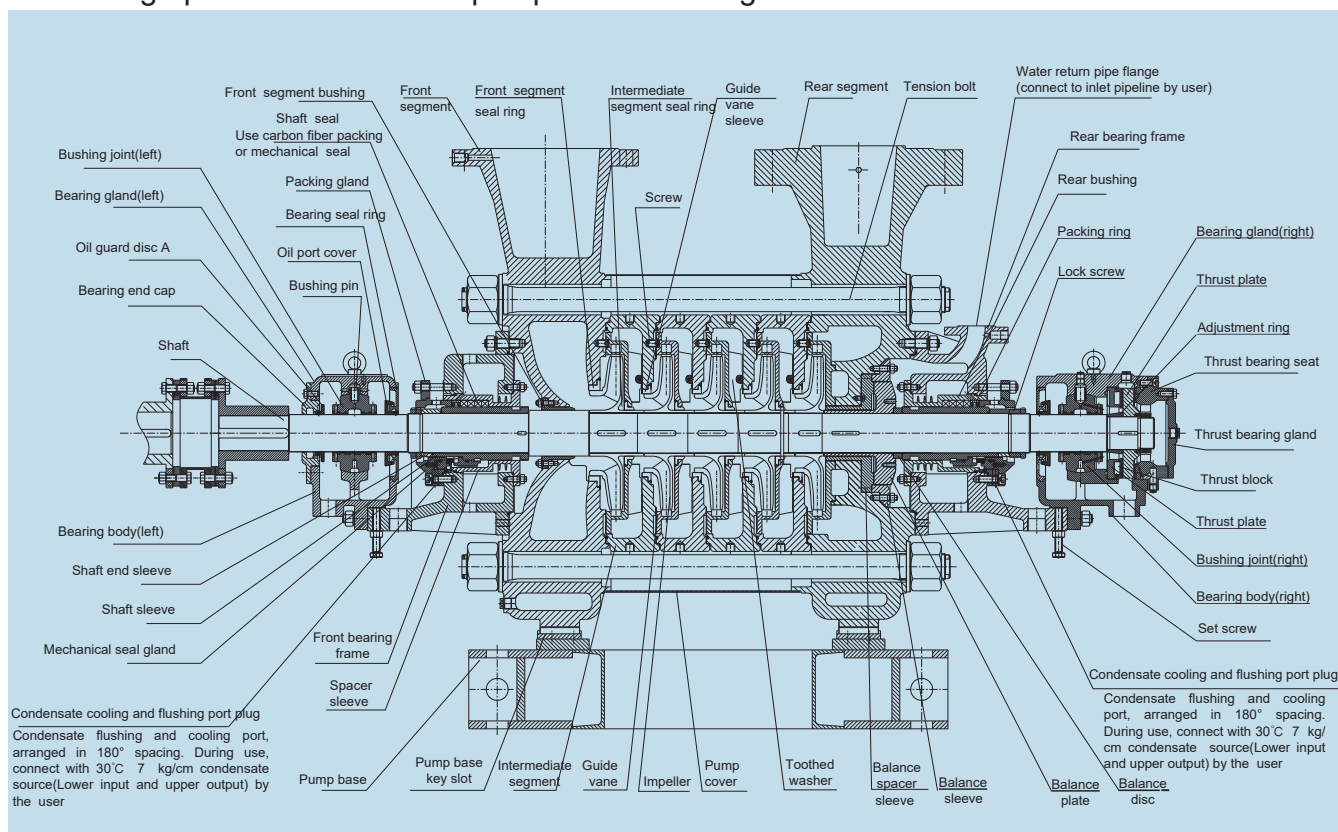
5.4 DG65-80 and DG85-80 sub-high pressure boiler feed pump structural diagram



5.5 DG120-80, DG150-100, DG180-100, DG200-100, DG245-100, and DG280-100 Sub-High Pressure Boiler Feed Pumps Structural Diagram

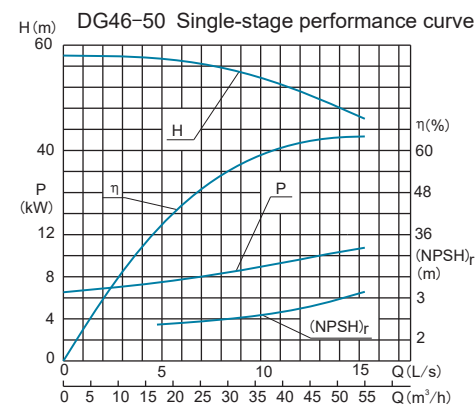
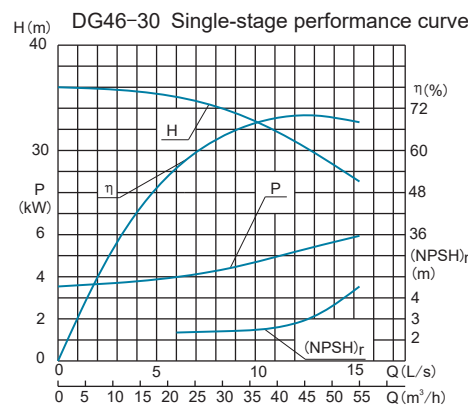
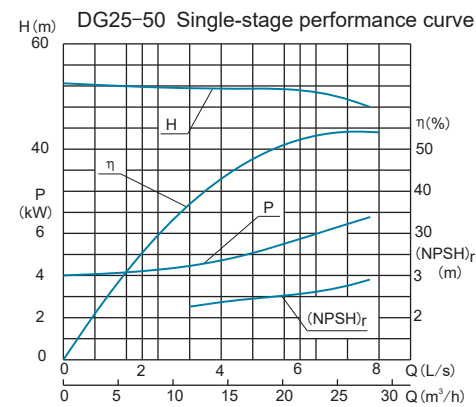
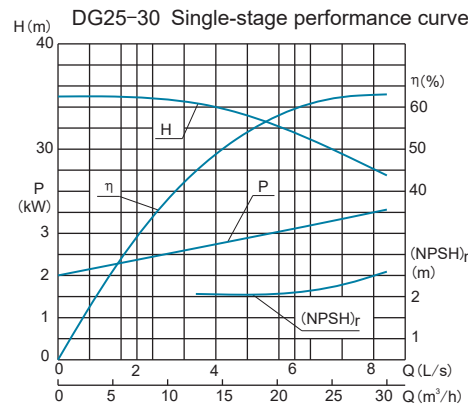
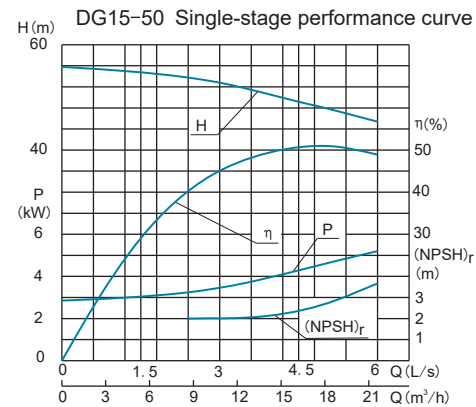
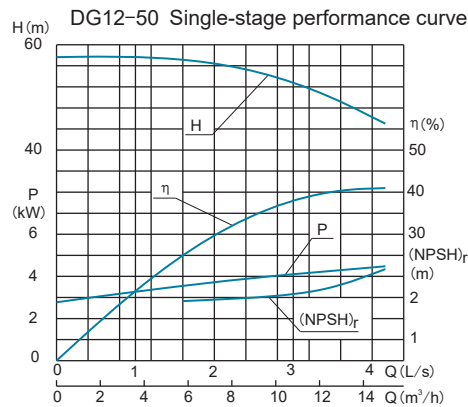
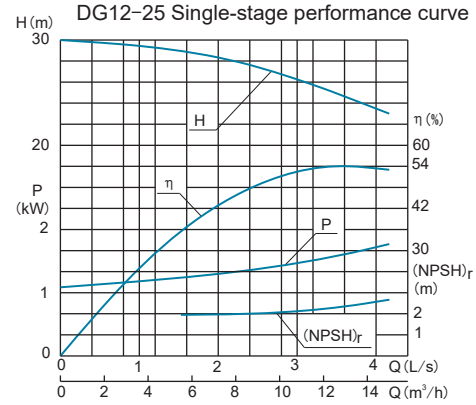
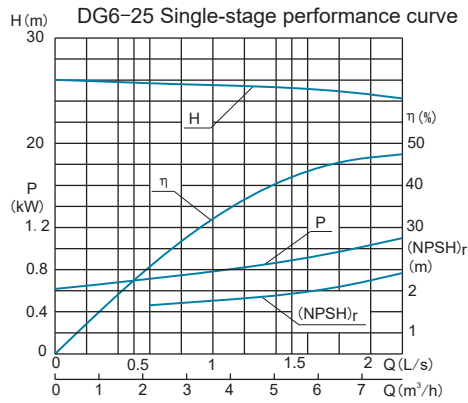


5.6 DG high pressure boiler feed pump structural diagram

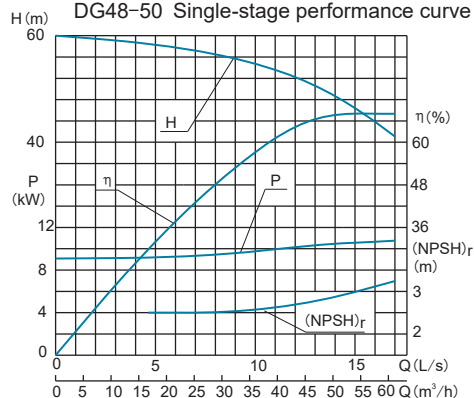


DG Type Boiler Feed Water Pump Performance Curve

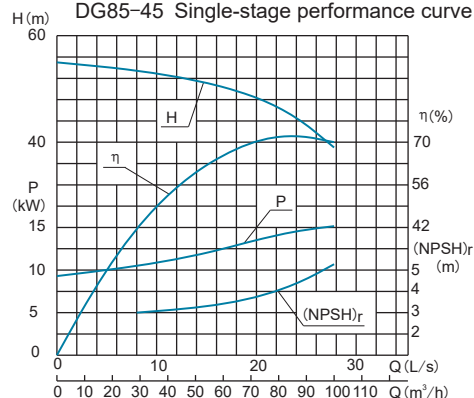
6.1 DG medium/low pressure boiler feed pump performance specification



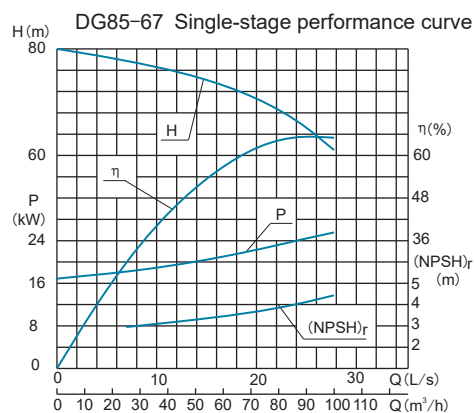
DG48-50 Single-stage performance curve



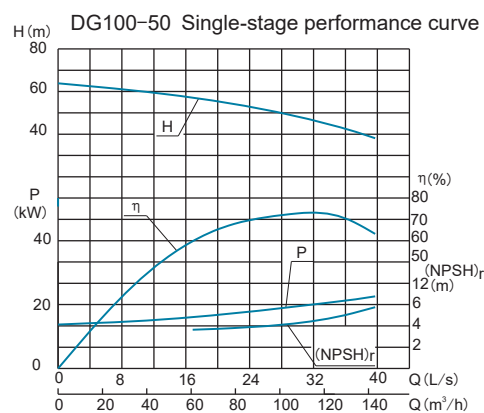
DG85-45 Single-stage performance curve



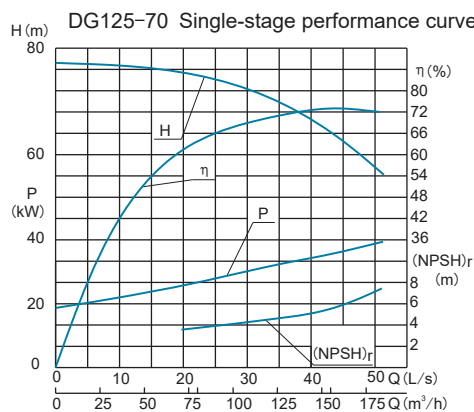
DG85-67 Single-stage performance curve



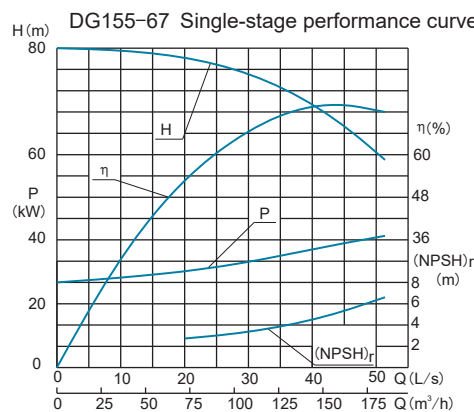
DG100-50 Single-stage performance curve



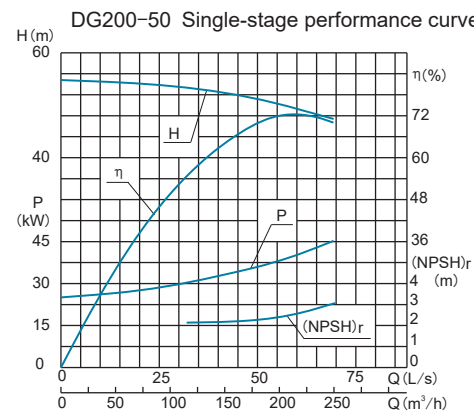
DG125-70 Single-stage performance curve



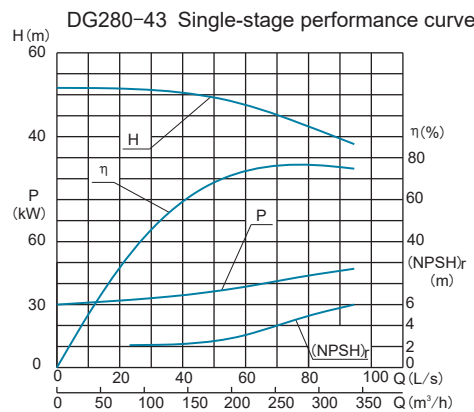
DG155-67 Single-stage performance curve



DG200-50 Single-stage performance curve

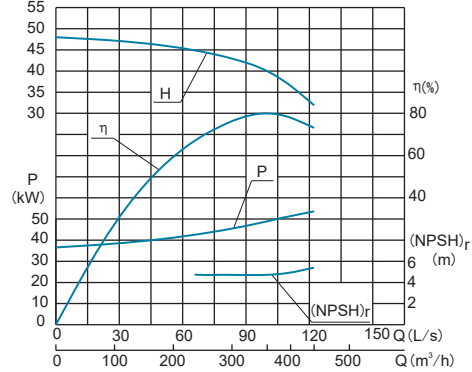


DG280-43 Single-stage performance curve

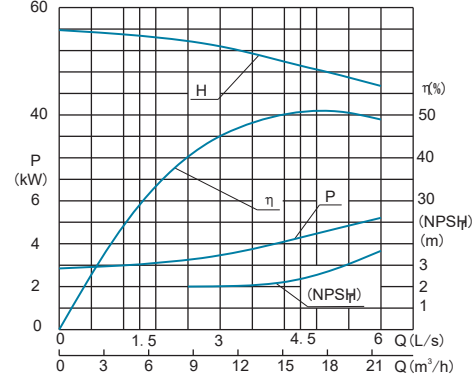


6.2 ZDG high temperature boiler feed pump performance specification

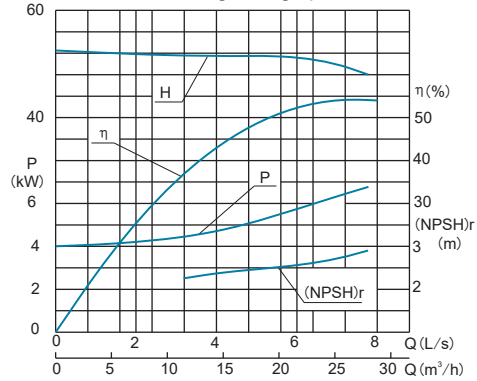
DG360-40 Single-stage performance curve



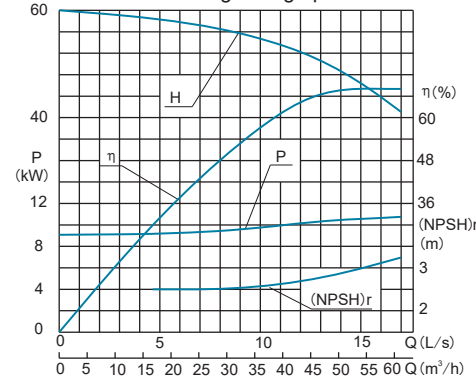
ZDG15-50 Single-stage performance curve



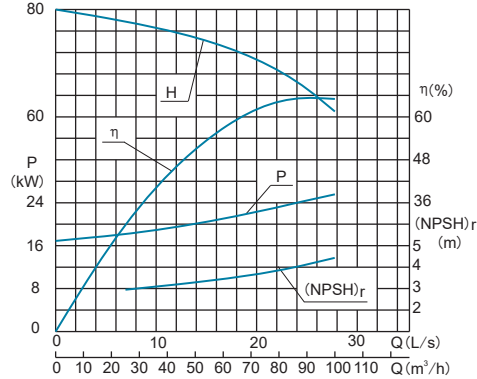
ZDG25-50 Single-stage performance curve



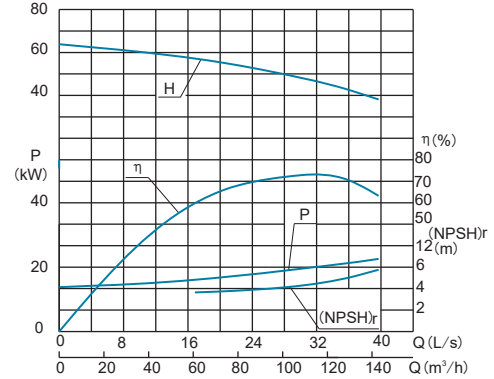
ZDG48-50 Single-stage performance curve



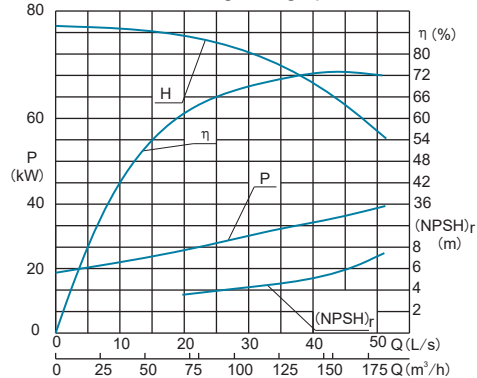
ZDG85-67 Single-stage performance curve



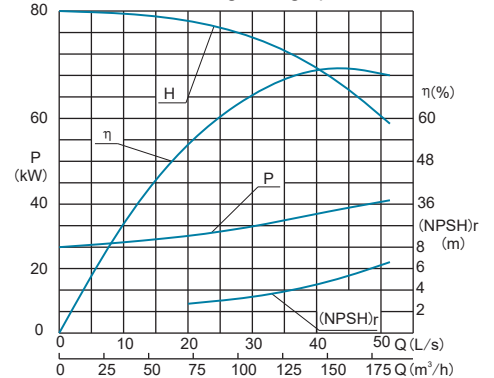
ZDG100-50 Single-stage performance curve



ZDG125-70 Single-stage performance curve

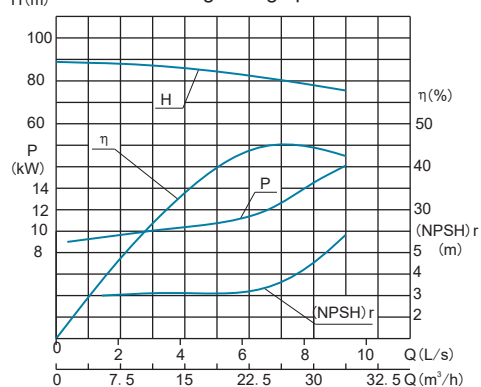


ZDG155-67 Single-stage performance curve

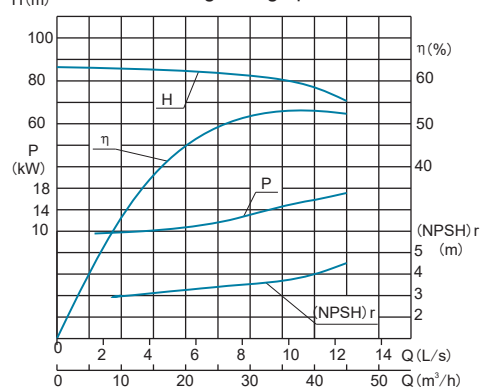


6.3 Sub-high pressure DG boiler feed pump performance specification

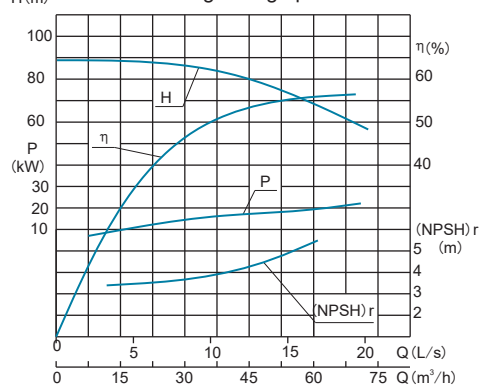
DG25-80 Single-stage performance curve



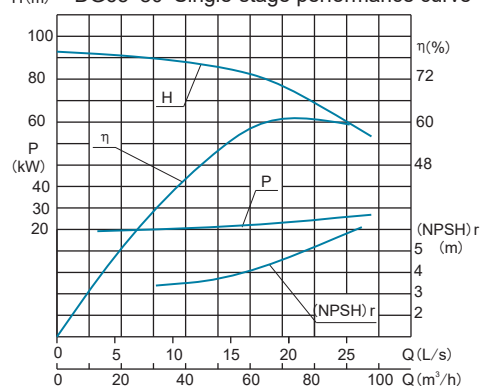
DG36-80 Single-stage performance curve



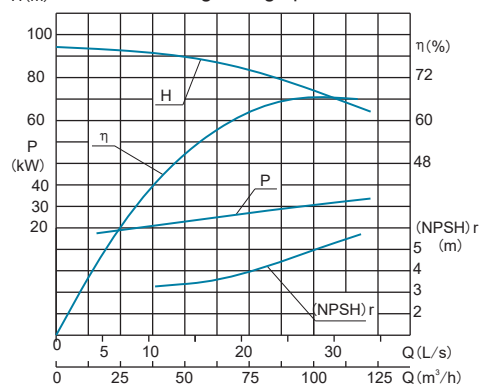
DG45-80 Single-stage performance curve



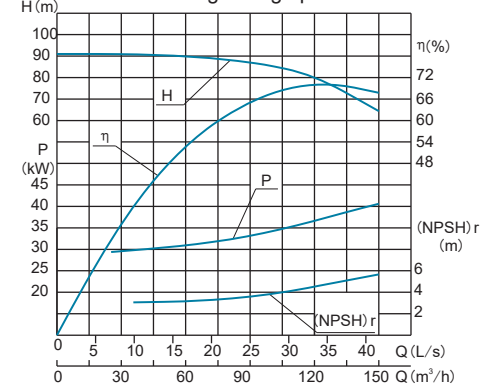
DG65-80 Single-stage performance curve



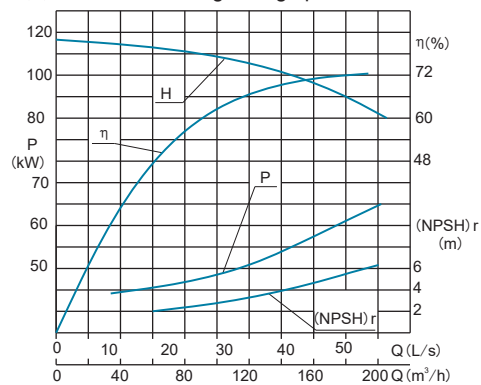
DG85-80 Single-stage performance curve



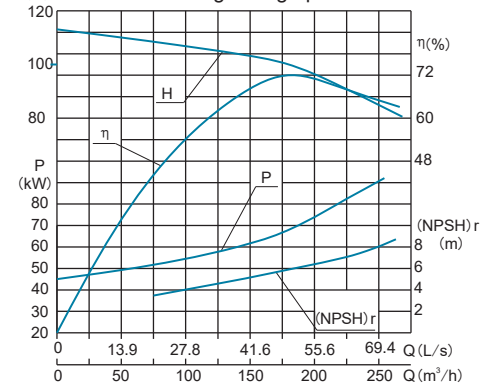
DG120-80 Single-stage performance curve

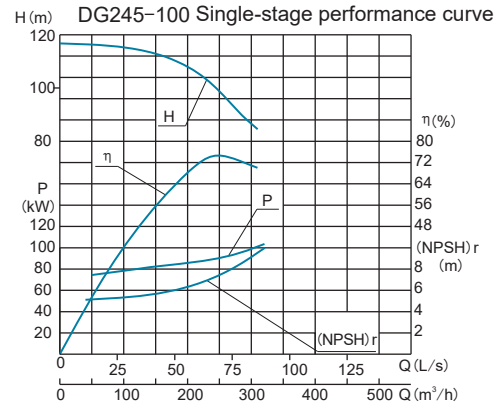
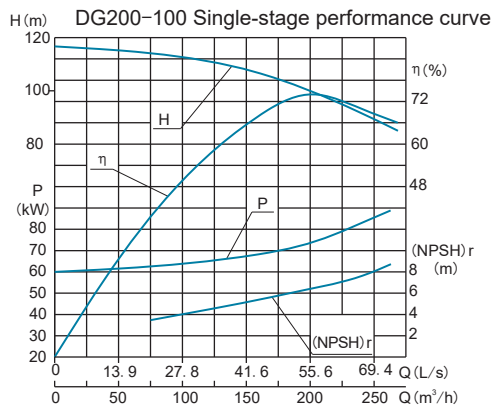


DG150-100 Single-stage performance curve

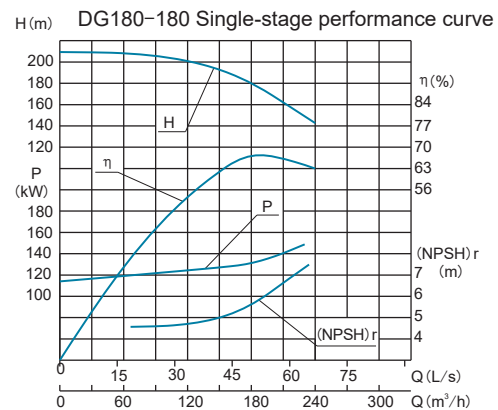
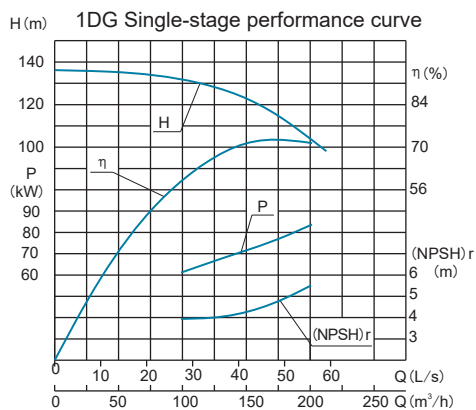
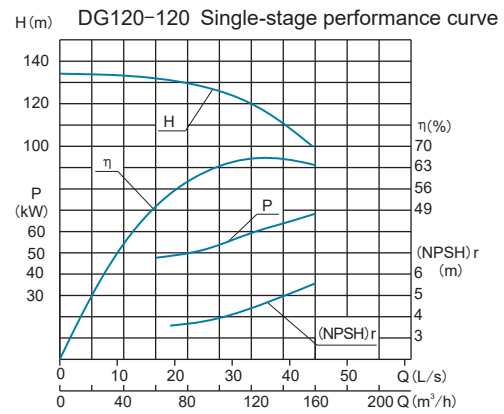
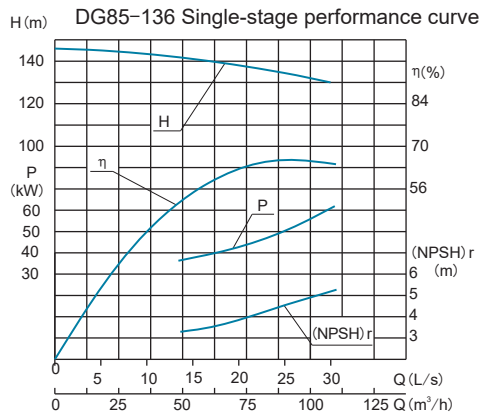
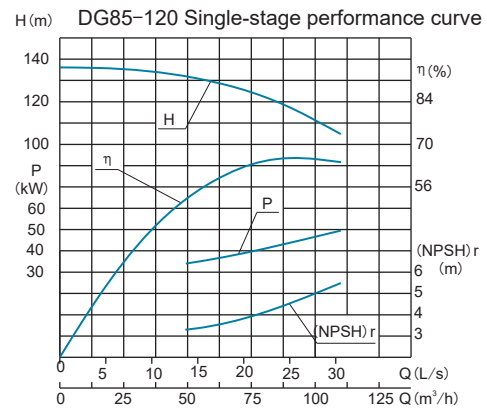
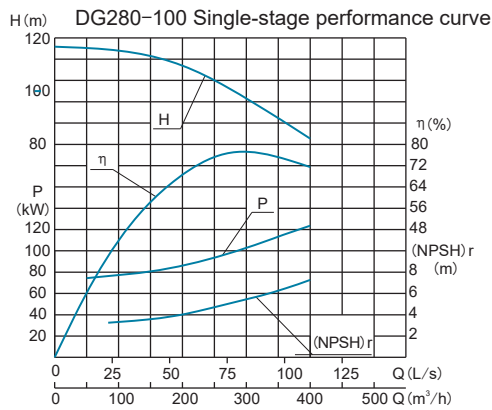


DG180-100 Single-stage performance curve

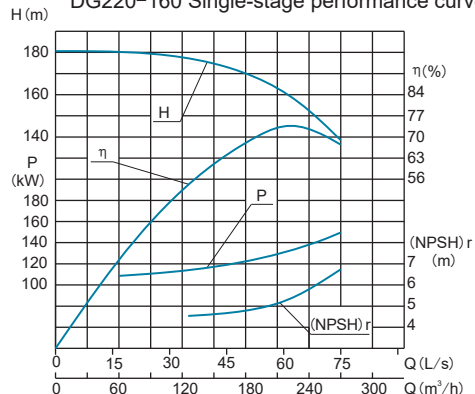




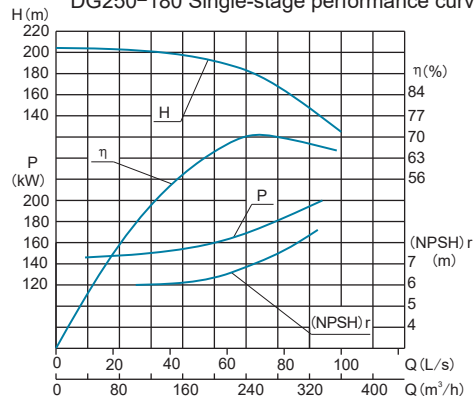
6.4 High pressure DG boiler feed pump performance specification



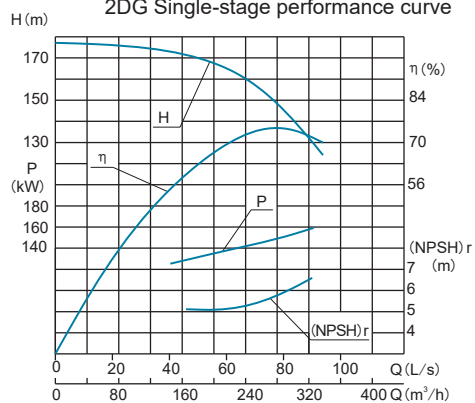
DG220-160 Single-stage performance curve



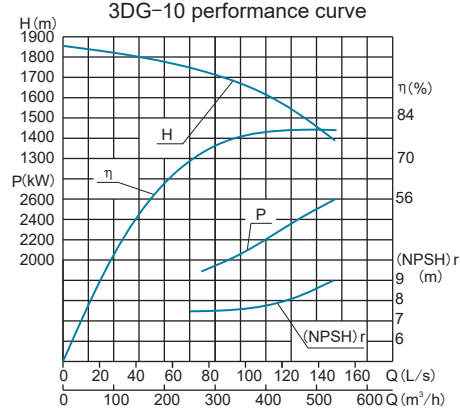
DG250-180 Single-stage performance curve



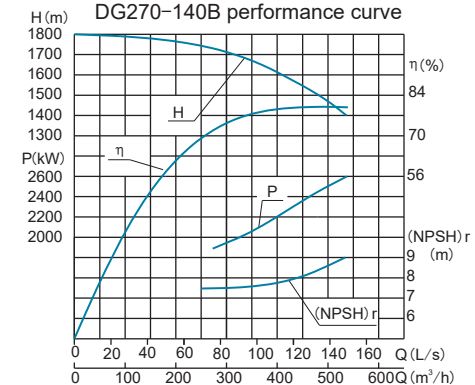
2DG Single-stage performance curve



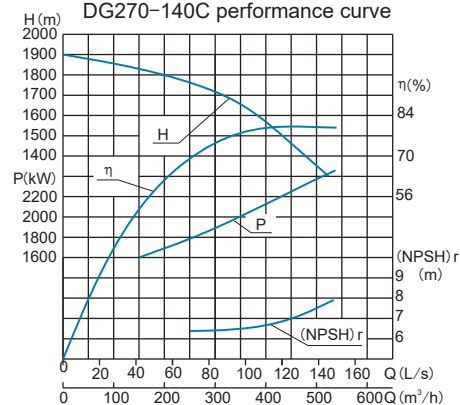
3DG-10 performance curve



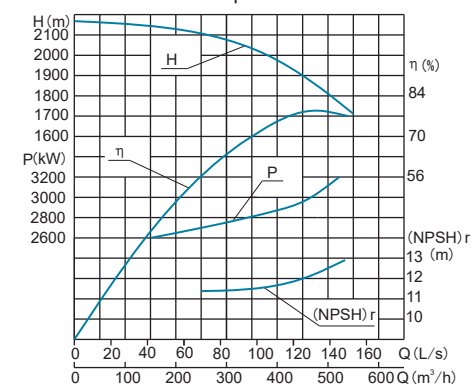
DG270-140B performance curve



DG270-140C performance curve



DG400-180C performance curve



DG Type Boiler Feed Water Pump Performance Parameter Table

7.1 DG medium/low pressure boiler feed pump performance performance parameter table

DG6-25×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	3.75	1.04	51	2980	1.58	3	33	2.0
	6.3	1.75	50		1.91		45	2.0
	7.5	2.08	49		2.13		47	2.5
3	3.75	1.04	76.5	2980	2.37	5.5	33	2.0
	6.3	1.75	75		2.86		45	2.0
	7.5	2.08	73.5		3.19		47	2.5
4	3.75	1.04	102	2980	3.16	7.5	33	2.0
	6.3	1.75	100		3.81		45	2.0
	7.5	2.08	98		4.26		47	2.5
5	3.75	1.04	127.5	2980	3.94	7.5	33	2.0
	6.3	1.75	125		4.76		45	2.0
	7.5	2.08	122.5		5.32		47	2.5
6	3.75	1.04	153	2980	4.73	11	33	2.0
	6.3	1.75	150		5.72		45	2.0
	7.5	2.08	147		6.39		47	2.5
7	3.75	1.04	178.5	2980	5.52	11	33	2.0
	6.3	1.75	175		6.67		45	2.0
	7.5	2.08	171.5		7.45		47	2.5
8	3.75	1.04	204	2980	6.31	15	33	2.0
	6.3	1.75	200		7.62		45	2.0
	7.5	2.08	196		8.51		47	2.5
9	3.75	1.04	229.5	2980	7.10	15	33	2.0
	6.3	1.75	225		8.58		45	2.0
	7.5	2.08	220.5		9.58		47	2.5
10	3.75	1.04	255	2980	7.89	18.5	33	2.0
	6.3	1.75	250		9.53		45	2.0
	7.5	2.08	245		10.64		47	2.5
11	3.75	1.04	280.5	2980	8.68	18.5	33	2.0
	6.3	1.75	275		10.48		45	2.0
	7.5	2.08	269.5		11.71		47	2.5
12	3.75	1.04	306	2980	9.47	18.5	33	2.0
	6.3	1.75	300		11.43		45	2.0
	7.5	2.08	294		12.77		47	2.5
DG12-25×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	7.5	2.08	56.4	2980	2.62	5.5	44	2.0
	12.5	3.47	50		3.15		54	2.0
	15	4.17	46		3.54		53	2.5
3	7.5	2.08	84.6	2980	3.93	7.5	44	2.0
	12.5	3.47	75		4.73		54	2.0
	15	4.17	69		5.32		53	2.5
4	7.5	2.08	112.8	2980	5.23	11	44	2.0
	12.5	3.47	100		6.30		54	2.0
	15	4.17	92		7.09		53	2.5
5	7.5	2.08	141	2980	6.54	11	44	2.0
	12.5	3.47	125		7.88		54	2.0
	15	4.17	115		8.86		53	2.5
6	7.5	2.08	169.2	2980	7.85	15	44	2.0
	12.5	3.47	150		9.45		54	2.0
	15	4.17	138		10.63		53	2.5
7	7.5	2.08	197.4	2980	9.16	15	44	2.0
	12.5	3.47	175		11.03		54	2.0
	15	4.17	161		12.40		53	2.5
8	7.5	2.08	225.6	2980	10.47	18.5	44	2.0
	12.5	3.47	200		12.60		54	2.0
	15	4.17	184		14.18		53	2.5
9	7.5	2.08	253.8	2980	11.78	18.5	44	2.0
	12.5	3.47	225		14.18		54	2.0
	15	4.17	207		15.95		53	2.5
10	7.5	2.08	282	2980	13.09	22	44	2.0
	12.5	3.47	250		15.75		54	2.0
	15	4.17	230		17.72		53	2.5
11	7.5	2.08	310.2	2980	14.39	22	44	2.0
	12.5	3.47	275		17.33		54	2.0
	15	4.17	253		19.49		53	2.5
12	7.5	2.08	338.4	2980	15.70	30	44	2.0
	12.5	3.47	300		18.90		54	2.0
	15	4.17	276		21.26		53	2.5
DG12-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)

2	9	2.5	110	2980	7.81	15	34.5	2.0
	12.5	3.47	100		8.51		40	2.2
	15	4.17	90		8.96		41	2.7
3	9	2.5	165	2980	11.72	18.5	34.5	2.0
	12.5	3.47	150		12.76		40	2.2
	15	4.17	135		13.45		41	2.7
4	9	2.5	220	2980	15.62	22	34.5	2.0
	12.5	3.47	200		17.01		40	2.2
	15	4.17	180		17.93		41	2.7
5	9	2.5	275	2980	19.53	30	34.5	2.0
	12.5	3.47	250		21.27		40	2.2
	15	4.17	225		22.41		41	2.7
6	9	2.5	330	2980	23.43	30	34.5	2.0
	12.5	3.47	300		25.52		40	2.2
	15	4.17	270		26.89		41	2.7
7	9	2.5	385	2980	27.34	37	34.5	2.0
	12.5	3.47	350		29.77		40	2.2
	15	4.17	315		31.37		41	2.7
8	9	2.5	440	2980	31.25	45	34.5	2.0
	12.5	3.47	400		34.03		40	2.2
	15	4.17	360		35.85		41	2.7
9	9	2.5	495	2980	35.15	45	34.5	2.0
	12.5	3.47	450		38.28		40	2.2
	15	4.17	405		40.34		41	2.7
10	9	2.5	550	2980	39.06	55	34.5	2.0
	12.5	3.47	500		42.53		40	2.2
	15	4.17	450		44.82		41	2.7
11	9	2.5	605	2980	42.96	55	34.5	2.0
	12.5	3.47	550		46.79		40	2.2
	15	4.17	495		49.30		41	2.7
12	9	2.5	660	2980	46.87	75	34.5	2.0
	12.5	3.47	600		51.04		40	2.2
	15	4.17	540		53.78		41	2.7
DG15-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	12	3.33	104	2980	7.23	15	47	2.0
	15	4.16	100		8.17		50	2.2
	18	5	96		9.22		51	2.7
3	12	3.33	156	2980	10.84	18.5	47	2.0
	15	4.16	150		12.25		50	2.2
	18	5	144		13.84		51	2.7
4	12	3.33	208	2980	14.46	22	47	2.0
	15	4.16	200		16.33		50	2.2
	18	5	192		18.45		51	2.7
5	12	3.33	261	2980	18.14	30	47	2.0
	15	4.16	250		20.42		50	2.2
	18	5	240		23.06		51	2.7
6	12	3.33	313	2980	21.75	30	47	2.0
	15	4.16	300		24.50		50	2.2
	18	5	288		27.67		51	2.7
7	12	3.33	365	2980	25.37	37	47	2.0
	15	4.16	350		28.58		50	2.2
	18	5	336		32.28		51	2.7
8	12	3.33	417	2980	28.98	45	47	2.0
	15	4.16	400		32.67		50	2.2
	18	5	384		36.89		51	2.7
9	12	3.33	469	2980	32.60	45	47	2.0
	15	4.16	450		36.75		50	2.2
	18	5	432		41.51		51	2.7
10	12	3.33	521	2980	36.21	55	47	2.0
	15	4.16	500		40.83		50	2.2
	18	5	480		46.12		51	2.7
11	12	3.33	573	2980	39.83	55	47	2.0
	15	4.16	550		44.92		50	2.2
	18	5	528		50.73		51	2.7
12	12	3.33	625	2980	43.44	75	47	2.0
	15	4.16	600		49.00		50	2.2
	18	5	576		55.34		51	2.7
DG25-30×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	15	4.17	68	2980	5.55	11	50	2.2
	25	6.94	60		6.59		62	2.2
	30	8.33	55		7.13		63	2.6
3	15	4.17	102	2980	8.33	15	50	2.2
	25	6.94	90		9.88		62	2.2
	30	8.33	82.5		10.69		63	2.6

4	15 25 30	4.17 6.94 8.33	136 120 110	2980	11.11 13.17 14.26	18.5	50 62 63	2.2 2.2 2.6
5	15 25 30	4.17 6.94 8.33	170 150 137.5	2980	13.88 16.47 17.82	22	50 62 63	2.2 2.2 2.6
6	15 25 30	4.17 6.94 8.33	204 180 165	2980	16.66 19.76 21.39	30	50 62 63	2.2 2.2 2.6
7	15 25 30	4.17 6.94 8.33	238 210 192.5	2980	19.44 23.05 24.95	30	50 62 63	2.2 2.2 2.6
8	15 25 30	4.17 6.94 8.33	272 240 220	2980	22.21 26.34 28.52	37	50 62 63	2.2 2.2 2.6
9	15 25 30	4.17 6.94 8.33	306 270 247.5	2980	24.99 29.64 32.08	37	50 62 63	2.2 2.2 2.6
10	15 25 30	4.17 6.94 8.33	340 300 275	2980	27.77 32.93 35.65	45	50 62 63	2.2 2.2 2.6
DG25-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	15 25 28	4.16 6.94 7.78	103 100 96	2980	9.56 12.60 13.55	18.5	44 54 54	2.4 2.7 2.8
3	15 25 28	4.16 6.94 7.78	154.5 150 144	2980	14.34 18.90 20.33	22	44 54 54	2.4 2.7 2.8
4	15 25 28	4.16 6.94 7.78	206 200 192	2980	19.12 25.21 27.10	30	44 54 54	2.4 2.7 2.8
5	15 25 28	4.16 6.94 7.78	257.5 250 240	2980	23.90 31.51 33.88	37	44 54 54	2.4 2.7 2.8
6	15 25 28	4.16 6.94 7.78	309 300 288	2980	28.68 37.81 40.65	45	44 54 54	2.4 2.7 2.8
7	15 25 28	4.16 6.94 7.78	360.5 350 336	2980	33.46 44.11 47.43	55	44 54 54	2.4 2.7 2.8
8	15 25 28	4.16 6.94 7.78	412 400 384	2980	38.23 50.41 54.20	75	44 54 54	2.4 2.7 2.8
9	15 25 28	4.16 6.94 7.78	463.5 450 432	2980	43.01 56.71 60.98	75	44 54 54	2.4 2.7 2.8
10	15 25 28	4.16 6.94 7.78	515 500 480	2980	47.79 63.01 67.75	75	44 54 54	2.4 2.7 2.8
11	15 25 28	4.16 6.94 7.78	566 550 528	2980	52.53 69.32 74.53	90	44 54 54	2.4 2.7 2.8
12	15 25 28	4.16 6.94 7.78	618 600 576	2980	57.35 75.62 81.30	90	44 54 54	2.4 2.7 2.8
DG46-30×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	30 46 55	8.34 12.78 15.28	68 60 54	2980	8.68 10.73 11.89	15	64 70 68	2.4 3.0 4.6
3	30 46 55	8.34 12.78 15.28	102 90 81	2980	13.02 16.10 17.83	22	64 70 68	2.4 3.0 4.6
4	30 46 55	8.34 12.78 15.28	136 120 108	2980	17.35 21.47 23.78	30	64 70 68	2.4 3.0 4.6
5	30 46 55	8.34 12.78 15.28	170 150 135	2980	21.69 26.83 29.72	37	64 70 68	2.4 3.0 4.6
6	30 46 55	8.34 12.78 15.28	204 180 162	2980	26.03 32.20 35.67	37	64 70 68	2.4 3.0 4.6
7	30 46 55	8.34 12.78 15.28	238 210 189	2980	30.37 37.57 41.61	45	64 70 68	2.4 3.0 4.6
8	30 46 55	8.34 12.78 15.28	272 240 216	2980	34.71 42.93 47.56	55	64 70 68	2.4 3.0 4.6
9	30 46 55	8.34 12.78 15.28	306 270 243	2980	39.05 48.30 53.50	55	64 70 68	2.4 3.0 4.6

10	30 46 55	8.34 12.78 15.28	340 300 270	2980	43.39 53.67 59.45	75	64 70 68	2.4 3.0 4.6
DG46-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	30 46 55	8.34 12.78 15.28	111 100 92	2980	16.79 19.88 21.52	30	54 63 64	2.5 2.8 3.2
3	30 46 55	8.34 12.78 15.28	166.5 150 138	2980	25.18 29.81 32.28	37	54 63 64	2.5 2.8 3.2
4	30 46 55	8.34 12.78 15.28	222 200 184	2980	33.57 39.75 43.05	45	54 63 64	2.5 2.8 3.2
5	30 46 55	8.34 12.78 15.28	277.5 250 230	2980	41.97 49.69 53.81	55	54 63 64	2.5 2.8 3.2
6	30 46 55	8.34 12.78 15.28	333 300 276	2980	50.36 59.63 64.57	75	54 63 64	2.5 2.8 3.2
7	30 46 55	8.34 12.78 15.28	388.5 350 322	2980	58.75 69.57 75.33	90	54 63 64	2.5 2.8 3.2
DG48-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	35 48 60	9.7 13.3 16.7	110 100 84	2980	18.72 19.50 20.18	30	56 67 68	2.5 2.8 3.2
3	35 48 60	9.7 13.3 16.7	165 150 126	2980	28.07 29.25 30.26	37	56 67 68	2.5 2.8 3.2
4	35 48 60	9.7 13.3 16.7	220 200 168	2980	37.43 39.00 40.35	45	56 67 68	2.5 2.8 3.2
5	35 48 60	9.7 13.3 16.7	275 250 210	2980	46.79 48.76 50.44	55	56 67 68	2.5 2.8 3.2
6	35 48 60	9.7 13.3 16.7	330 300 252	2980	56.15 58.51 60.53	75	56 67 68	2.5 2.8 3.2
7	35 48 60	9.7 13.3 16.7	385 350 294	2980	65.50 68.26 70.62	90	56 67 68	2.5 2.8 3.2
8	35 48 60	9.7 13.3 16.7	440 400 336	2980	74.86 78.01 80.71	90	56 67 68	2.5 2.8 3.2
9	35 48 60	9.7 13.3 16.7	495 450 378	2980	84.22 87.76 90.79	110	56 67 68	2.5 2.8 3.2
10	35 48 60	9.7 13.3 16.7	550 500 420	2980	93.58 97.51 100.88	132	56 67 68	2.5 2.8 3.2
11	35 48 60	9.7 13.3 16.7	605 550 462	2980	102.93 107.26 110.97	132	56 67 68	2.5 2.8 3.2
12	35 48 60	9.7 13.3 16.7	660 600 504	2980	112.29 117.01 121.06	160	56 67 68	2.5 2.8 3.2
DG85-45×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	55 85 100	15.28 23.61 27.78	102 90 78	2980	24.2 28.9 30.3	37	63 72 70	3.2 4.2 5.2
3	55 85 100	15.28 23.61 27.78	153 135 117	2980	36.4 43.4 45.5	55	63 72 70	3.2 4.2 5.2
4	55 85 100	15.28 23.61 27.78	204 180 156	2980	48.5 57.8 60.7	75	63 72 70	3.2 4.2 5.2
5	55 85 100	15.28 23.61 27.78	255 225 195	2980	60.6 72.3 75.8	90	63 72 70	3.2 4.2 5.2
6	55 85 100	15.28 23.61 27.78	306 270 234	2980	72.7 86.8 91.0	110	63 72 70	3.2 4.2 5.2
7	55 85 100	15.28 23.61 27.78	357 315 273	2980	84.8 101.2 106.2	132	63 72 70	3.2 4.2 5.2

8	55 85 100	15.28 23.61 27.78	408 360 312	2980	97.0 115.7 121.3	132	63 72 70	3.2 4.2 5.2
9	55 85 100	15.28 23.61 27.78	459 405 351	2980	109.1 130.2 136.5	160	63 72 70	3.2 4.2 5.2
DG85-67×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	55 85 100	15.28 23.61 27.78	148 134 122	2980	41.0 47.7 51.1	75	54 65 65	3.3 4.0 4.4
3	55 85 100	15.28 23.61 27.78	222 201 183	2980	61.6 71.6 76.6	90	54 65 65	3.3 4.0 4.4
4	55 85 100	15.28 23.61 27.78	296 268 244	2980	82.1 95.4 102.2	110	54 65 65	3.3 4.0 4.4
5	55 85 100	15.28 23.61 27.78	370 335 305	2980	102.6 119.3 127.7	132	54 65 65	3.3 4.0 4.4
6	55 85 100	15.28 23.61 27.78	444 402 366	2980	123.1 143.1 153.3	160	54 65 65	3.3 4.0 4.4
7	55 85 100	15.28 23.61 27.78	518 469 427	2980	143.6 167.0 178.8	200	54 65 65	3.3 4.0 4.4
8	55 85 100	15.28 23.61 27.78	592 536 488	2980	164.1 190.8 204.4	220	54 65 65	3.3 4.0 4.4
9	55 85 100	15.28 23.61 27.78	666 603 549	2980	184.7 214.7 229.9	250	54 65 65	3.3 4.0 4.4
DG100-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	80 100 125	22.2 27.8 34.7	108 100 88	2980	34.6 37.8 41.6	55	68 72 72	3.8 4.1 4.8
3	80 100 125	22.2 27.8 34.7	162 150 132	2980	51.9 56.7 62.4	75	68 72 72	3.8 4.1 4.8
4	80 100 125	22.2 27.8 34.7	216 200 176	2980	69.2 75.6 83.2	90	68 72 72	3.8 4.1 4.8
5	80 100 125	22.2 27.8 34.7	270 250 220	2980	86.5 94.5 104.0	132	68 72 72	3.8 4.1 4.8
6	80 100 125	22.2 27.8 34.7	324 300 264	2980	103.8 113.4 124.8	132	68 72 72	3.8 4.1 4.8
7	80 100 125	22.2 27.8 34.7	378 350 308	2980	121.1 132.3 145.6	160	68 72 72	3.8 4.1 4.8
8	80 100 125	22.2 27.8 34.7	432 400 352	2980	138.4 151.2 166.4	200	68 72 72	3.8 4.1 4.8
9	80 100 125	22.2 27.8 34.7	486 450 396	2980	155.6 170.1 187.2	200	68 72 72	3.8 4.1 4.8
10	80 100 125	22.2 27.8 34.7	540 500 440	2980	172.9 189.0 207.9	250	68 72 72	3.8 4.1 4.8
11	80 100 125	22.2 27.8 34.7	594 550 484	2980	190.2 207.9 228.7	250	68 72 72	3.8 4.1 4.8
12	80 100 125	22.2 27.8 34.7	648 600 528	2980	207.5 226.9 249.5	280	68 72 72	3.8 4.1 4.8
DG125-70×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
3	80 125 155	22.22 34.72 43.06	225 210 192	2980	76.6 96.6 112.5	132	64 74 72	3.2 5.0 6.6
4	80 125 155	22.22 34.72 43.06	300 280 256	2980	102.1 128.8 150.0	185	64 74 72	3.2 5.0 6.6
5	80 125 155	22.22 34.72 43.06	375 350 320	2980	127.6 160.9 187.5	220	64 74 72	3.2 5.0 6.6

6	80 125 155	22.22 34.72 43.06	450 420 384	2980	153.1 193.1 225.0	250	64 74 72	3.2 5.0 6.6
7	80 125 155	22.22 34.72 43.06	525 490 448	2980	178.6 225.3 262.5	315	64 74 72	3.2 5.0 6.6
8	80 125 155	22.22 34.72 43.06	600 560 512	2980	204.2 257.5 300.0	315	64 74 72	3.2 5.0 6.6
9	80 125 155	22.22 34.72 43.06	675 630 576	2980	229.7 289.7 337.6	355	64 74 72	3.2 5.0 6.6
DG155-67×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
3	100 155 185	27.78 43.06 51.39	228 201 177	2980	97.0 114.6 123.8	132	64 74 72	3.2 5.0 6.6
4	100 155 185	27.78 43.06 51.39	304 268 236	2980	129.3 152.8 165.1	185	64 74 72	3.2 5.0 6.6
5	100 155 185	27.78 43.06 51.39	380 335 295	2980	161.6 191.0 206.3	220	64 74 72	3.2 5.0 6.6
6	100 155 185	27.78 43.06 51.39	456 402 354	2980	194.0 229.2 247.6	280	64 74 72	3.2 5.0 6.6
7	100 155 185	27.78 43.06 51.39	532 469 413	2980	226.3 267.4 288.9	315	64 74 72	3.2 5.0 6.6
8	100 155 185	27.78 43.06 51.39	608 536 472	2980	258.6 305.6 330.1	355	64 74 72	3.2 5.0 6.6
9	100 155 185	27.78 43.06 51.39	684 603 531	2980	290.9 343.8 371.4	450	64 74 72	3.2 5.0 6.6
DG200-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	160 200 240	44.4 55.6 66.7	104 100 96	1480	68.6 75.6 88.3	110	66 72 71	2.2 2.4 2.9
3	160 200 240	44.4 55.6 66.7	156 150 144	1480	102.9 113.4 132.5	160	66 72 71	2.2 2.4 2.9
4	160 200 240	44.4 55.6 66.7	208 200 192	1480	137.3 151.2 176.7	200	66 72 71	2.2 2.4 2.9
5	160 200 240	44.4 55.6 66.7	260 250 240	1480	171.6 189.0 220.8	250	66 72 71	2.2 2.4 2.9
6	160 200 240	44.4 55.6 66.7	312 300 288	1480	205.9 226.9 265.0	315	66 72 71	2.2 2.4 2.9
7	160 200 240	44.4 55.6 66.7	364 350 336	1480	240.2 264.7 309.2	355	66 72 71	2.2 2.4 2.9
8	160 200 240	44.4 55.6 66.7	416 400 384	1480	274.5 302.5 353.4	400	66 72 71	2.2 2.4 2.9
9	160 200 240	44.4 55.6 66.7	468 450 432	1480	308.8 340.3 397.5	450	66 72 71	2.2 2.4 2.9
10	160 200 240	44.4 55.6 66.7	520 500 480	1480	343.2 378.1 441.7	500	66 72 71	2.2 2.4 2.9
11	160 200 240	44.4 55.6 66.7	572 550 528	1480	377.5 415.9 485.9	560	66 72 71	2.2 2.4 2.9
12	160 200 240	44.4 55.6 66.7	624 600 576	1480	411.8 453.7 530.0	630	66 72 71	2.2 2.4 2.9
DG280-43×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	185 280 335	51.4 77.8 93.1	94 86 76	1480	68.6 85.1 92.4	110	69 77 75	3.0 4.7 6
3	185 280 335	51.4 77.8 93.1	141 129 114	1480	102.9 127.7 138.6	160	69 77 75	3.0 4.7 6

4	185 280 335	51.4 77.8 93.1	188 172 152	1480	137.2 170.3 184.8	220	69 77 75	3.0 4.7 6
5	185 280 335	51.4 77.8 93.1	235 215 190	1480	171.5 212.8 231.0	250	69 77 75	3.0 4.7 6
6	185 280 335	51.4 77.8 93.1	282 258 228	1480	205.8 255.4 277.2	315	69 77 75	3.0 4.7 6
7	185 280 335	51.4 77.8 93.1	329 301 266	1480	240.1 298.0 323.4	355	69 77 75	3.0 4.7 6
8	185 280 335	51.4 77.8 93.1	376 344 304	1480	274.4 340.5 369.6	400	69 77 75	3.0 4.7 6
9	185 280 335	51.4 77.8 93.1	423 387 342	1480	308.7 383.1 415.8	450	69 77 75	3.0 4.7 6
DG360-40×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	300 360 440	83.3 100 122.2	84 80 71	1480	89.1 98.0 110.4	132	77 80 77	4.7 4.7 5.4
3	300 360 440	83.3 100 122.2	126 120 106.5	1480	133.6 147.0 165.7	200	77 80 77	4.7 4.7 5.4
4	300 360 440	83.3 100 122.2	168 160 142	1480	178.2 196.0 220.9	250	77 80 77	4.7 4.7 5.4
5	300 360 440	83.3 100 122.2	210 200 177.5	1480	222.7 245.0 276.1	315	77 80 77	4.7 4.7 5.4

7.2 ZDG high temperature boiler feed pump performance parameter table

ZDG15-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	12 15 18	3.33 4.16 5	104 100 96	2980	7.2 8.2 9.2	15	47 50 51	2.0 2.2 2.7
3	12 15 18	3.33 4.16 5	156 150 144	2980	10.9 12.3 13.8	18.5	47 50 51	2.0 2.2 2.7
4	12 15 18	3.33 4.16 5	208 200 192	2980	14.5 16.4 18.5	22	47 50 51	2.0 2.2 2.7
5	12 15 18	3.33 4.16 5	261 250 240	2980	18.2 20.4 23.1	30	47 50 51	2.0 2.2 2.7
6	12 15 18	3.33 4.16 5	313 300 288	2980	21.8 24.5 27.7	30	47 50 51	2.0 2.2 2.7
7	12 15 18	3.33 4.16 5	365 350 336	2980	25.4 28.6 32.3	37	47 50 51	2.0 2.2 2.7
8	12 15 18	3.33 4.16 5	417 400 384	2980	29.0 32.7 36.9	45	47 50 51	2.0 2.2 2.7
9	12 15 18	3.33 4.16 5	469 450 432	2980	32.6 36.8 41.5	45	47 50 51	2.0 2.2 2.7
10	12 15 18	3.33 4.16 5	521 500 480	2980	36.2 40.9 46.2	55	47 50 51	2.0 2.2 2.7
11	12 15 18	3.33 4.16 5	573 550 528	2980	39.9 45.0 50.8	55	47 50 51	2.0 2.2 2.7
12	12 15 18	3.33 4.16 5	625 600 576	2980	43.5 49.1 55.4	75	47 50 51	2.0 2.2 2.7
ZDG25-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	15 25 28	4.16 6.94 7.78	103 100 96	2980	9.6 12.6 13.6	18.5	44 54 54	2.4 2.7 2.8
3	15 25 28	4.16 6.94 7.78	154.5 150 144	2980	14.4 18.9 20.3	22	44 54 54	2.4 2.7 2.8

4	15 25 28	4.16 6.94 7.78	206 200 192	2980	19.1 25.2 27.1	30	44 54 54	2.4 2.7 2.8
5	15 25 28	4.16 6.94 7.78	257.5 250 240	2980	23.9 31.5 33.9	37	44 54 54	2.4 2.7 2.8
6	15 25 28	4.16 6.94 7.78	309 300 288	2980	28.7 37.8 40.7	45	44 54 54	2.4 2.7 2.8
7	15 25 28	4.16 6.94 7.78	360.5 350 336	2980	33.5 44.2 47.5	55	44 54 54	2.4 2.7 2.8
8	15 25 28	4.16 6.94 7.78	412 400 384	2980	38.3 50.5 54.3	75	44 54 54	2.4 2.7 2.8
9	15 25 28	4.16 6.94 7.78	463.5 450 432	2980	43.1 56.8 61.0	75	44 54 54	2.4 2.7 2.8
10	15 25 28	4.16 6.94 7.78	515 500 480	2980	47.8 63.1 67.8	75	44 54 54	2.4 2.7 2.8
11	15 25 28	4.16 6.94 7.78	566 550 528	2980	52.6 69.4 74.6	90	44 54 54	2.4 2.7 2.8
12	15 25 28	4.16 6.94 7.78	618 600 576	2980	57.4 75.7 81.4	90	44 54 54	2.4 2.7 2.8
ZDG48-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	35 48 60	9.7 13.3 16.7	110 100 84	2980	18.7 19.5 20.2	30	56 67 68	2.5 2.8 3.2
3	35 48 60	9.7 13.3 16.7	165 150 126	2980	28.1 29.3 30.3	37	56 67 68	2.5 2.8 3.2
4	35 48 60	9.7 13.3 16.7	220 200 168	2980	37.5 39.0 40.4	45	56 67 68	2.5 2.8 3.2
5	35 48 60	9.7 13.3 16.7	275 250 210	2980	46.8 48.8 50.5	55	56 67 68	2.5 2.8 3.2
6	35 48 60	9.7 13.3 16.7	330 300 252	2980	56.2 58.6 60.6	75	56 67 68	2.5 2.8 3.2
7	35 48 60	9.7 13.3 16.7	385 350 294	2980	65.6 68.3 70.7	90	56 67 68	2.5 2.8 3.2
8	35 48 60	9.7 13.3 16.7	440 400 336	2980	74.9 78.1 80.8	90	56 67 68	2.5 2.8 3.2
9	35 48 60	9.7 13.3 16.7	495 450 378	2980	84.3 87.9 90.9	110	56 67 68	2.5 2.8 3.2
10	35 48 60	9.7 13.3 16.7	550 500 420	2980	93.7 97.6 101.0	132	56 67 68	2.5 2.8 3.2
11	35 48 60	9.7 13.3 16.7	605 550 462	2980	103.0 107.4 111.1	132	56 67 68	2.5 2.8 3.2
12	35 48 60	9.7 13.3 16.7	660 600 504	2980	112.4 117.1 121.2	160	56 67 68	2.5 2.8 3.2
ZDG85-67×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	55 85 100	15.28 23.61 27.78	148 134 122	2980	41.1 47.8 51.1	75	54 65 65	3.3 4.0 4.4
3	55 85 100	15.28 23.61 27.78	222 201 183	2980	61.6 71.6 76.7	90	54 65 65	3.3 4.0 4.4
4	55 85 100	15.28 23.61 27.78	296 268 244	2980	82.2 95.5 102.3	110	54 65 65	3.3 4.0 4.4
5	55 85 100	15.28 23.61 27.78	370 335 305	2980	102.7 119.4 127.9	132	54 65 65	3.3 4.0 4.4
6	55 85 100	15.28 23.61 27.78	444 402 366	2980	123.2 143.3 153.4	160	54 65 65	3.3 4.0 4.4
7	55 85 100	15.28 23.61 27.78	518 469 427	2980	143.8 167.1 179.0	200	54 65 65	3.3 4.0 4.4

8	55 85 100	15.28 23.61 27.78	592 536 488	2980	164.3 191.0 204.6	220	54 65 65	3.3 4.0 4.4
9	55 85 100	15.28 23.61 27.78	666 603 549	2980	184.8 214.9 230.2	250	54 65 65	3.3 4.0 4.4
ZDG100-50×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	80 100 125	22.2 27.8 34.7	108 100 88	2980	34.6 37.8 41.6	55	68 72 72	3.8 4.1 4.8
3	80 100 125	22.2 27.8 34.7	162 150 132	2980	51.9 56.8 62.4	75	68 72 72	3.8 4.1 4.8
4	80 100 125	22.2 27.8 34.7	216 200 176	2980	69.2 75.7 83.3	90	68 72 72	3.8 4.1 4.8
5	80 100 125	22.2 27.8 34.7	270 250 220	2980	86.6 94.6 104.1	132	68 72 72	3.8 4.1 4.8
6	80 100 125	22.2 27.8 34.7	324 300 264	2980	103.9 113.5 124.9	132	68 72 72	3.8 4.1 4.8
7	80 100 125	22.2 27.8 34.7	378 350 308	2980	121.2 132.5 145.7	160	68 72 72	3.8 4.1 4.8
8	80 100 125	22.2 27.8 34.7	432 400 352	2980	138.5 151.4 166.5	200	68 72 72	3.8 4.1 4.8
9	80 100 125	22.2 27.8 34.7	486 450 396	2980	155.8 170.3 187.3	200	68 72 72	3.8 4.1 4.8
10	80 100 125	22.2 27.8 34.7	540 500 440	2980	173.1 189.2 208.2	250	68 72 72	3.8 4.1 4.8
11	80 100 125	22.2 27.8 34.7	594 550 484	2980	190.4 208.2 229.0	250	68 72 72	3.8 4.1 4.8
12	80 100 125	22.2 27.8 34.7	648 600 528	2980	207.7 227.1 249.8	280	68 72 72	3.8 4.1 4.8
ZDG125-70×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	80 125 155	22.22 34.72 43.06	150 140 128	2980	51.1 64.4 75.1	90	64 74 72	3.2 5.0 6.6
3	80 125 155	22.22 34.72 43.06	225 210 192	2980	76.6 96.7 112.6	132	64 74 72	3.2 5.0 6.6
4	80 125 155	22.22 34.72 43.06	300 280 256	2980	102.2 128.9 150.2	185	64 74 72	3.2 5.0 6.6
5	80 125 155	22.22 34.72 43.06	375 350 320	2980	127.6 160.9 187.5	220	64 74 72	3.2 5.0 6.6
6	80 125 155	22.22 34.72 43.06	450 420 384	2980	153.1 193.1 225.0	250	64 74 72	3.2 5.0 6.6
7	80 125 155	22.22 34.72 43.06	525 490 448	2980	178.6 225.3 262.5	315	64 74 72	3.2 5.0 6.6
8	80 125 155	22.22 34.72 43.06	600 560 512	2980	204.2 257.5 300.0	315	64 74 72	3.2 5.0 6.6
9	80 125 155	22.22 34.72 43.06	675 630 576	2980	229.7 289.7 337.6	355	64 74 72	3.2 5.0 6.6
ZDG155-67×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
2	100 155 185	27.78 43.06 51.39	152 134 118	2980	64.7 76.5 82.6	90	64 74 72	3.2 5.0 6.6
3	100 155 185	27.78 43.06 51.39	228 201 177	2980	97.1 114.7 123.9	132	64 74 72	3.2 5.0 6.6
4	100 155 185	27.78 43.06 51.39	304 268 236	2980	129.4 153.0 165.2	185	64 74 72	3.2 5.0 6.6

5	100 155 185	27.78 43.06 51.39	380 335 295	2980	161.8 191.2 206.6	220	64 74 72	3.2 5.0 6.6
6	100 155 185	27.78 43.06 51.39	456 402 354	2980	194.2 229.5 247.9	280	64 74 72	3.2 5.0 6.6
7	100 155 185	27.78 43.06 51.39	532 469 413	2980	226.5 267.7 289.2	315	64 74 72	3.2 5.0 6.6
8	100 155 185	27.78 43.06 51.39	608 536 472	2980	258.9 305.9 330.5	355	64 74 72	3.2 5.0 6.6
9	100 155 185	27.78 43.06 51.39	684 603 531	2980	291.2 344.2 371.8	450	64 74 72	3.2 5.0 6.6

7.3 Sub-high pressure DG boiler feed pump performance parameter table

DG25-80×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	15 25 30	4.2 6.9 8.3	595 567 542.5	2980	71 86 101	110	34 45 44	3.2 3.5 5.0
8	15 25 30	4.2 6.9 8.3	680 648 620	2980	82 98 115	132	34 45 44	3.2 3.5 5.0
9	15 25 30	4.2 6.9 8.3	765 729 697.5	2980	92 110 129	160	34 45 44	3.2 3.5 5.0
10	15 25 30	4.2 6.9 8.3	850 810 775	2980	102 123 144	185	34 45 44	3.2 3.5 5.0
11	15 25 30	4.2 6.9 8.3	935 891 852.5	2980	112 135 158	200	34 45 44	3.2 3.5 5.0
12	15 25 30	4.2 6.9 8.3	1020 972 930	2980	123 147 173	200	34 45 44	3.2 3.5 5.0
DG36-80×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	28 36 40	7.8 10.0 11.1	581 560 539	2980	87 104 111	132	51 53 53	3.5 3.7 4.0
8	28 36 40	7.8 10.0 11.1	664 640 616	2980	99 118 127	132	51 53 53	3.5 3.7 4.0
9	28 36 40	7.8 10.0 11.1	747 720 693	2980	112 133 142	160	51 53 53	3.5 3.7 4.0
10	28 36 40	7.8 10.0 11.1	830 800 770	2980	124 148 158	185	51 53 53	3.5 3.7 4.0
11	28 36 40	7.8 10.0 11.1	913 880 847	2980	136 163 174	200	51 53 53	3.5 3.7 4.0
12	28 36 40	7.8 10.0 11.1	996 960 924	2980	149 178 190	200	51 53 53	3.5 3.7 4.0
DG45-80×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
6	36 45 60	10.0 12.5 16.7	500 480 405	2980	98.0 106.9 118.1	160	50 55 56	3.9 4.2 5.5
7	36 45 60	10.0 12.5 16.7	586 560 475	2980	114.9 124.7 138.5	160	50 55 56	3.9 4.2 5.5
8	36 45 60	10.0 12.5 16.7	670 640 545	2980	131.3 142.5 159.0	200	50 55 56	3.9 4.2 5.5
9	36 45 60	10.0 12.5 16.7	752 720 614	2980	147.4 160.4 179.1	220	50 55 56	3.9 4.2 5.5
10	36 45 60	10.0 12.5 16.7	836 800 682	2980	163.9 178.2 198.9	220	50 55 56	3.9 4.2 5.5
11	36 45 60	10.0 12.5 16.7	920 880 750	2980	180.3 196.0 218.8	250	50 55 56	3.9 4.2 5.5

12	36 45 60	10.0 12.5 16.7	1004 960 820	2980	196.8 213.8 239.2	280	50 55 56	3.9 4.2 5.5
DG65-80×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	50	13.9	602	2980	157.6	220	52	3.7
	65	18.1	560		165.1		60	4.3
	80	22.2	483		172.4		61	5.4
8	50	13.9	688	2980	180.1	250	52	3.7
	65	18.1	640		188.7		60	4.3
	80	22.2	552		197.1		61	5.4
9	50	13.9	774	2980	202.6	280	52	3.7
	65	18.1	720		212.3		60	4.3
	80	22.2	621		221.7		61	5.4
10	50	13.9	860	2980	225.1	315	52	3.7
	65	18.1	800		235.9		60	4.3
	80	22.2	690		246.3		61	5.4
11	50	13.9	946	2980	247.6	315	52	3.7
	65	18.1	880		259.5		60	4.3
	80	22.2	759		271.0		61	5.4
12	50	13.9	1032	2980	270.1	355	52	3.7
	65	18.1	960		283.1		60	4.3
	80	22.2	828		295.6		61	5.4
DG85-80×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	54	15.0	616	2980	170.9	250	53	3.5
	85	23.6	560		199.4		65	4.5
	108	30.0	490		218.3		66	5.3
8	54	15.0	705	2980	195.5	280	53	3.5
	85	23.6	640		227.8		65	4.5
	108	30.0	560		249.5		66	5.3
9	54	15.0	792	2980	219.7	355	53	3.5
	85	23.6	720		256.3		65	4.5
	108	30.0	630		280.6		66	5.3
10	54	15.0	880	2980	244.1	355	53	3.5
	85	23.6	800		284.8		65	4.5
	108	30.0	702		312.7		66	5.3
11	54	15.0	968	2980	268.5	400	53	3.5
	85	23.6	880		313.3		65	4.5
	108	30.0	770		343.0		66	5.3
12	54	15.0	1056	2980	292.9	450	53	3.5
	85	23.6	960		341.7		65	4.5
	108	30.0	840		374.2		66	5.3
DG120-80×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
8	90	25	696	2980	262	400	65	3.8
	120	33.3	640		299		70	4.8
	140	38.9	560		309		69	5.1
9	90	25	783	2980	295	450	65	3.8
	120	38.9	720		336		70	4.8
	140	38.9	630		348		69	5.1
10	90	25	870	2980	328	500	65	3.8
	120	33.3	800		373		70	4.8
	140	38.9	700		387		69	5.1
11	90	25	957	2980	361	560	65	3.8
	120	33.3	880		411		70	4.8
	140	38.9	770		425		69	5.1
12	90	25	1044	2980	394	630	65	3.8
	120	33.3	960		448		70	4.8
	140	38.9	840		464		69	5.1
DG150-100×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
6	120	33.3	630	2980	307.2	450	67	3.4
	150	41.7	591		344.8		70	4.8
	180	50.0	540		367.5		72	5.5
7	120	33.3	735	2980	358.4	500	67	3.4
	150	41.7	690		402.5		70	4.8
	180	50.0	630		428.8		72	5.5
8	120	33.3	840	2980	409.6	630	67	3.4
	150	41.7	788		459.7		70	4.8
	180	50.0	720		490.0		72	5.5
9	120	33.3	945	2980	460.7	630	67	3.4
	150	41.7	886		516.8		70	4.8
	180	50.0	810		551.3		72	5.5

10	120 150 180	33.3 41.7 50.0	1050 985 900	2980	511.9 574.6 612.5	800	67 70 72	3.4 4.8 5.5
DG180-100×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
6	140	38.9	624	2980	360.3	560	66	4.8
	180	50.0	600		408.3		72	5.8
	220	61.1	552		486.2		68	7.0
7	140	38.9	728	2980	420.4	630	66	4.8
	180	50.0	700		476.4		72	5.8
	220	61.1	644		567.2		68	7.0
8	140	38.9	832	2980	480.4	710	66	4.8
	180	50.0	800		544.4		72	5.8
	220	61.1	736		648.2		68	7.0
9	140	38.9	936	2980	540.5	800	66	4.8
	180	50.0	900		612.5		72	5.8
	220	61.1	828		729.2		68	7.0
10	140	38.9	1040	2980	600.5	900	66	4.8
	180	50.0	1000		680.6		72	5.8
	220	61.1	920		810.3		68	7.0
DG200-100×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
6	160	44.4	640	2980	409.9	560	68	5.4
	200	55.6	600		441.4		74	6.4
	240	66.7	550		513.3		70	7.6
7	160	44.4	746	2980	477.8	630	68	5.4
	200	55.6	700		515.0		74	6.4
	240	66.7	640		597.3		70	7.6
8	160	44.4	855	2980	547.6	710	68	5.4
	200	55.6	800		588.6		74	6.4
	240	66.7	735		686.0		70	7.6
9	160	44.4	960	2980	614.9	800	68	5.4
	200	55.6	900		662.2		74	6.4
	240	66.7	825		770.0		70	7.6
10	160	44.4	1067	2980	683.4	900	68	5.4
	200	55.6	1000		735.7		74	6.4
	240	66.7	915		854.0		70	7.6
DG245-100×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
6	200	56	648	2980	519	630	68	6.3
	245	68	600		534		75	7.3
	280	78	546		570		73	8.5
7	200	56	756	2980	605	710	68	6.3
	245	68	700		622		75	7.3
	280	78	637		665		73	8.5
8	200	56	864	2980	692	800	68	6.3
	245	68	800		711		75	7.3
	280	78	728		760		73	8.5
9	200	56	972	2980	778	900	68	6.3
	245	68	900		800		75	7.3
	280	78	819		855		73	8.5
10	200	56	1080	2980	865	1000	68	6.3
	245	68	1000		889		75	7.3
	280	78	910		950		73	8.5
DG280-100×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
6	196	54.4	660	2980	517.9	710	68	7.5
	280	77.8	600		593.9		77	8.0
	336	93.3	552		664.3		76	8.4
7	196	54.4	770	2980	604.2	900	68	7.5
	280	77.8	700		692.9		77	8.0
	336	93.3	644		775.1		76	8.4
8	196	54.4	880	2980	690.5	1000	68	7.5
	280	77.8	800		791.9		77	8.0
	336	93.3	736		885.8		76	8.4
9	196	54.4	990	2980	776.8	1120	68	7.5
	280	77.8	900		890.9		77	8.0
	336	93.3	828		996.5		76	8.4
10	196	54.4	1100	2980	863.1	1250	68	7.5
	280	77.8	1000		989.9		77	8.0
	336	93.3	920		1107.2		76	8.4

7.4 High pressure DG boiler feed pump performance parameter table

DG85-120×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	60	16.7	903	2980	254.3	400	58	3.5
	85	23.6	840		299.0		65	4.5
	110	30.6	756		353.7		64	5.3
8	60	16.7	1032	2980	290.6	450	58	3.5
	85	23.6	960		341.7		65	4.5
	110	30.6	860		402.4		64	5.3
9	60	16.7	1162	2980	327.2	500	58	3.5
	85	23.6	1080		384.5		65	4.5
	110	30.6	964		451.0		64	5.3
10	60	16.7	1291	2980	363.6	560	58	3.5
	85	23.6	1200		427.2		65	4.5
	110	30.6	1068		499.7		64	5.3
11	60	16.7	1418	2980	399.3	630	58	3.5
	85	23.6	1320		469.9		65	4.5
	110	30.6	1172		548.4		64	5.3
12	60	16.7	1550	2980	436.5	710	58	3.5
	85	23.6	1440		512.6		65	4.5
	110	30.6	1276		597.0		64	5.3
DG85-136×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	60	16.7	980	2980	276.0	450	58	3.5
	85	23.6	952		338.9		65	4.5
	103	28.6	924		404.8		64	5.0
8	60	16.7	1120	2980	315.4	500	58	3.5
	85	23.6	1088		387.3		65	4.5
	103	28.6	1056		462.6		64	5.0
9	60	16.7	1260	2980	354.8	560	58	3.5
	85	23.6	1224		435.7		65	4.5
	103	28.6	1188		520.5		64	5.0
10	60	16.7	1400	2980	394.3	630	58	3.5
	85	23.6	1360		484.1		65	4.5
	103	28.6	1320		578.3		64	5.0
11	60	16.7	1540	2980	433.7	710	58	3.5
	85	23.6	1496		532.6		65	4.5
	103	28.6	1452		636.1		64	5.0
12	60	16.7	1680	2980	473.1	800	58	3.5
	85	23.6	1632		581.0		65	4.5
	103	28.6	1584		694.0		64	5.0
DG120-120×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	90	25.0	896	2980	359.9	500	61	3.9
	120	33.3	840		415.8		66	4.5
	150	41.7	735		461.7		65	5.3
8	90	25.0	1024	2980	411.3	560	61	3.9
	120	33.3	960		475.2		66	4.5
	150	41.7	840		527.7		65	5.3
9	90	25.0	1152	2980	462.7	630	61	3.9
	120	33.3	1080		534.5		66	4.5
	150	41.7	945		593.7		65	5.3
10	90	25.0	1280	2980	514.1	710	61	3.9
	120	33.3	1200		593.9		66	4.5
	150	41.7	1050		659.6		65	5.3
11	90	25.0	1408	2980	565.5	800	61	3.9
	120	33.3	1320		653.3		66	4.5
	150	41.7	1155		725.6		65	5.3
12	90	25.0	1536	2980	616.9	800	61	3.9
	120	33.3	1440		712.7		66	4.5
	150	41.7	1260		791.5		65	5.3
1DG×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	120	33.3	903	2980	453.8	800	65	3.9
	160	44.4	840		508.1		72	4.5
	200	55.6	756		579.7		71	5.4
8	120	33.3	1032	2980	518.6	800	65	3.9
	160	44.4	960		580.7		72	4.5
	200	55.6	860		659.5		71	5.4
9	120	33.3	1162	2980	584.0	1000	65	3.9
	160	44.4	1080		653.3		72	4.5
	200	55.6	964		739.2		71	5.4
10	120	33.3	1291	2980	648.8	1000	65	3.9
	160	44.4	1200		725.9		72	4.5
	200	55.6	1068		819.0		71	5.4

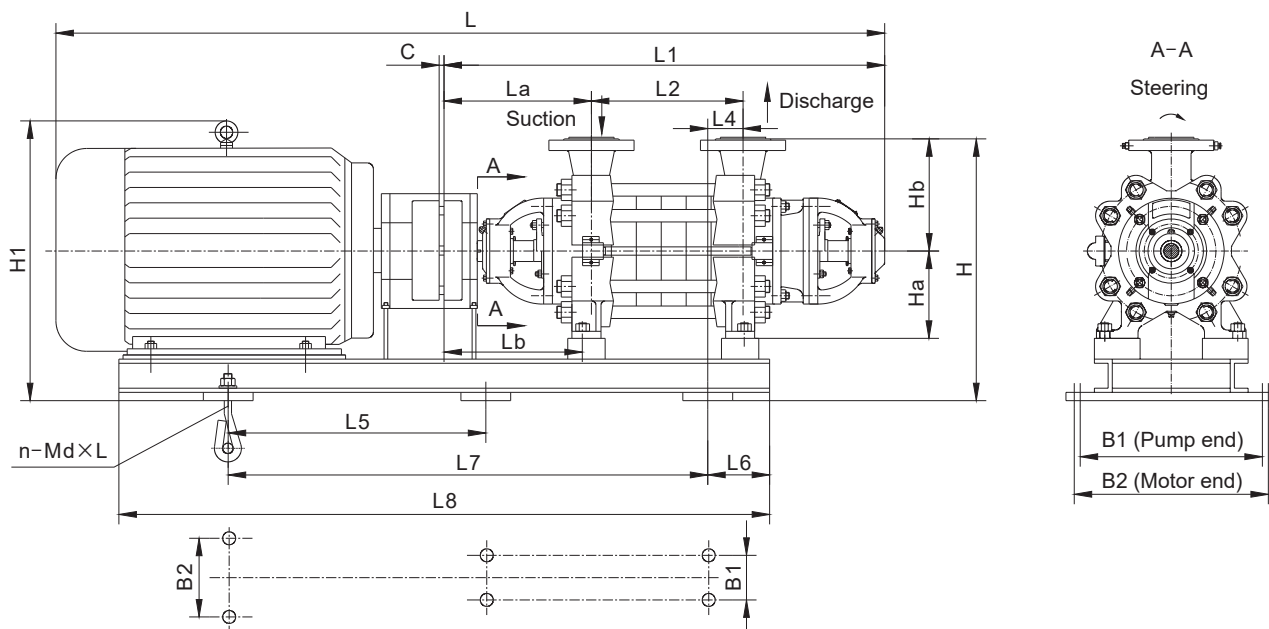
11	120	33.3	1418	2980	712.6	1000	65	3.9
	160	44.4	1320		798.5		72	4.5
	200	55.6	1172		898.7		71	5.4
12	120	33.3	1550	2980	779.0	1000	65	3.9
	160	44.4	1440		871.1		72	4.5
	200	55.6	1276		978.5		71	5.4
DG180-180×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
10	150	41.7	1935	2980	1254	1600	63	5.0
	180	50	1800		1316.4		67	5.7
	210	58.3	1620		1447		64	7.0
11	150	41.7	2130	2980	1380.6	1600	63	5.0
	180	50	1980		1448.1		67	5.7
	210	58.3	1780		1590		64	7.0
12	150	41.7	2325	2980	1506.9	1800	63	5.0
	180	50	2160		1579.7		67	5.7
	210	58.3	1940		1732.8		64	7.0
DG250-180×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
10	210	58.3	1900	2980	1621	1800	67	6.5
	250	69.4	1800		1725		71	7.0
	280	77.8	1660		1808		70	7.5
11	210	58.3	2090	2980	1783	2000	67	6.5
	250	69.4	1980		1898		71	7.0
	280	77.8	1826		1988		70	7.5
12	210	58.3	2280	2980	1945	2240	67	6.5
	250	69.4	2160		2070		71	7.0
	280	77.8	1992		2169		70	7.5
DG220-160×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	190	52.8	1176	2980	868.9	1120	70	4.9
	220	61.1	1120		918.8		73	5.3
	250	69.4	1036		993.0		71	6.1
8	190	52.8	1344	2980	993.1	1250	70	4.9
	220	61.1	1280		1050.1		73	5.3
	250	69.4	1184		1134.9		71	6.1
9	190	52.8	1512	2980	1117.2	1400	70	4.9
	220	61.1	1440		1181.4		73	5.3
	250	69.4	1332		1276.8		71	6.1
10	190	52.8	1680	2980	1241.3	1600	70	4.9
	220	61.1	1600		1312.6		73	5.3
	250	69.4	1480		1418.6		71	6.1
2DG×n								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
7	240	66.7	1120	2980	1016.3	1250	72	5.2
	270	75.0	1057		1035.9		75	5.6
	300	83.3	984		1085.9		74	6.3
8	240	66.7	1280	2980	1161.5	1250	72	5.2
	270	75.0	1208		1183.8		75	5.6
	300	83.3	1120		1236.0		74	6.3
9	240	66.7	1438	2980	1304.9	1600	72	5.2
	270	75.0	1359		1331.8		75	5.6
	300	83.3	1258		1388.3		74	6.3
10	240	66.7	1596	2980	1448.2	1600	72	5.2
	270	75.0	1510		1479.8		75	5.6
	300	83.3	1398		1542.8		74	6.3
3DG-10								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
10	360	100.0	1660	2980	2085.6	2500	78	8.0
	440	122.2	1560		2365.2		79	
	500	138.9	1470		2501.0		80	
DG270-140B								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m³/h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
10	270	75.0	1570	2980	1559.4	2000	74	6.5
	320	88.9	1500		1719.3		76	
	360	100.0	1420		1784.1		78	

DG270-140C								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m ³ /h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
10	270	75.0	1750	2980	1786.5	2300	72	6.5
	360	100.0	1640		2034.4		79	
	440	122.2	1490		2230.9		80	

DG400-180C								
Number of Stages	Capacity		Head	Nominal Speed	Shaft Power	Matching Power	Efficiency	NPSH _r
(n)	(m ³ /h)	(L/s)	(m)	(r/min)	(kW)	(kW)	(%)	(m)
10	400	111.1	1980	2980	2874.7	3200	75	12.0
	450	125.0	1900		2946.2		79	
	500	138.9	1810		3118.5		79	

DG Type Middle and Low Pressure Boiler Feed Water Pump Installation Dimension Diagram

DG intermediate/low pressure boiler feed pump installation dimension diagram

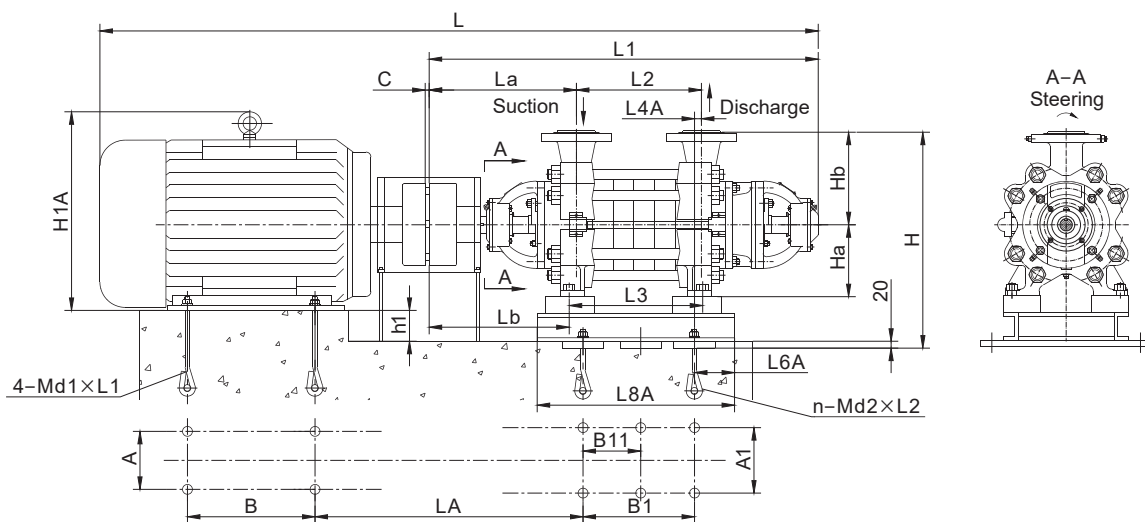


Pump Model	Number of stages	Dimension mm																		Motor		Pump Weight kg
		L	L1	L2	L4	L5	L6	L7	L8	La	Lb	Ha	Hb	C	H	H1	B1	B2	n-MdXI	Model	kW	
DG6-25	2	1021	636	130	76		110	550	775	264	264	150	170	5	405	380	390	390	4-M20X300	YE ₃ 100L-2	3	75
	3	1166	686	180	86		130	550	870	264	264	150	170	5	405	418	390	390	4-M20X300	YE ₃ 132S1-2	5.5	85
	4	1216	736	230	96		140	600	920	264	264	150	170	5	405	418	390	390	4-M20X300	YE ₃ 132S2-2	7.5	95
	5	1266	786	280	136		170	600	960	264	264	150	170	5	405	418	390	390	4-M20X300	YE ₃ 132S2-2	7.5	105
	6	1441	836	330	135		170	735	1145	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160M1-2	11	115
	7	1491	886	380	185		225	735	1200	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160M1-2	11	125
	8	1541	936	430	185		230	785	1255	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160M2-2	15	135
	9	1591	986	480	235		270	785	1295	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160M2-2	15	145
	10	1686	1036	530	220		250	885	1375	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160L-2	18.5	155
	11	1736	1086	580	265		295	885	1420	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160L-2	18.5	165
	12	1786	1136	630	315		345	885	1470	264	264	150	170	5	415	470	435	435	4-M20X300	YE ₃ 160L-2	18.5	175
DG12-25	2	1116	636	130	59		95	580	820	264	264	150	170	5	405	418	395	395	4-M20X300	YE ₃ 132S1-2	5.5	102
	3	1166	686	180	89		125	600	870	264	264	150	170	5	405	418	395	395	4-M20X300	YE ₃ 132S2-2	7.5	115
	4	1341	736	230	114		150	660	1050	264	264	150	170	5	415	470	430	430	4-M20X300	YE ₃ 160M1-2	11	128
	5	1391	786	280	145		175	680	1095	264	264	150	170	5	415	470	430	430	4-M20X300	YE ₃ 160M1-2	11	140
	6	1441	836	330	185		215	690	1145	264	264	150	170	5	415	470	430	430	4-M20X300	YE ₃ 160M2-2	15	153
	7	1491	886	380	195		225	730	1195	264	264	150	170	5	415	470	430	430	4-M20X300	YE ₃ 160M2-2	15	166
	8	1586	936	430	220		250	780	1275	264	264	150	170	5	415	470	430	430	4-M20X300	YE ₃ 160L-2	18.5	180
	9	1636	986	480	250		280	800	1325	264	264	150	170	5	415	470	430	430	4-M20X300	YE ₃ 160L-2	18.5	193
	10	1711	1036	530	280		310	820	1385	264	264	150	170	5	448	528	460	460	4-M20X300	YE ₃ 180M-2	22	204
	11	1761	1086	580	300		330	850	1435	264	264	150	170	5	448	528	460	460	4-M20X300	YE ₃ 180M-2	22	217
	12	1916	1136	630	316		355	930	1530	264	264	150	170	5	468	573	500	500	4-M20X300	YE ₃ 200L1-2	30	239

Pump Model	Number of stages	Dimension mm																Motor			Pump Weight kg	
		L	L1	L2	L4	L5	L6	L7	L8	La	Lb	Ha	Hb	C	H	H1	B1	B2	n-MdXI	Model		kW
DG12-50	2	1486	881	185	77		110	750	1085	355	333	210	270	5	580	535	470	470	4-M20X300	YE ₃ 160M2-2	15	200
	3	1591	941	245	107		140	805	1175	355	333	210	270	5	580	535	470	470	4-M20X300	YE ₃ 160L-2	18.5	225
	4	1676	1001	305	142		175	830	1255	355	333	210	270	5	580	560	470	470	4-M20X300	YE ₃ 180M-2	22	250
	5	1841	1061	365	167		200	910	1352	355	333	210	270	5	617	622	470	470	4-M20X300	YE ₃ 200L1-2	30	275
	6	1901	1121	425	197		230	940	1412	355	333	210	270	5	617	622	470	470	4-M20X300	YE ₃ 200L1-2	30	300
	7	1961	1181	485	227		260	970	1472	355	333	210	270	5	617	622	470	470	4-M20X300	YE ₃ 200L2-2	37	325
	8	2061	1241	545	264		297	1020	1553	355	333	210	270	5	630	665	530	530	4-M20X300	YE ₃ 225M-2	45	350
	9	2121	1301	605	294		327	1050	1613	355	333	210	270	5	630	665	530	530	4-M20X300	YE ₃ 225M-2	45	375
	10	2296	1361	665	319	520	352	1145	1772	355	333	210	270	5	660	715	510	570	6-M20X300	YE ₃ 250M-2	55	400
	11	2356	1421	725	349	535	382	1175	1832	355	333	210	270	5	660	715	510	570	6-M20X300	YE ₃ 250M-2	55	425
	12	2486	1481	785	379	620	412	1235	1962	355	333	210	270	5	690	780	510	640	6-M20X300	YE ₃ 280S-2	75	450
	DG15-50	2	1486	881	185	77		110	750	1085	355	333	210	270	5	580	535	470	470	4-M20X300	YE ₃ 160M2-2	15
3		1591	941	245	107		140	805	1175	355	333	210	270	5	580	535	470	470	4-M20X300	YE ₃ 160L-2	18.5	225
4		1676	1001	305	142		175	830	1255	355	333	210	270	5	580	560	470	470	4-M20X300	YE ₃ 180M-2	22	250
5		1841	1061	365	167		200	910	1352	355	333	210	270	5	617	622	470	470	4-M20X300	YE ₃ 200L1-2	30	275
6		1901	1121	425	197		230	940	1412	355	333	210	270	5	617	622	470	470	4-M20X300	YE ₃ 200L1-2	30	300
7		1961	1181	485	227		260	970	1472	355	333	210	270	5	617	622	470	470	4-M20X300	YE ₃ 200L2-2	37	325
8		2061	1241	545	264		297	1020	1553	355	333	210	270	5	630	665	530	530	4-M20X300	YE ₃ 225M-2	45	350
9		2121	1301	605	294		327	1050	1613	355	333	210	270	5	630	665	530	530	4-M20X300	YE ₃ 225M-2	45	375
10		2296	1361	665	319	520	352	1145	1772	355	333	210	270	5	660	715	510	570	6-M20X300	YE ₃ 250M-2	55	400
11		2356	1421	725	349	535	382	1175	1832	355	333	210	270	5	660	715	510	570	6-M20X300	YE ₃ 250M-2	55	425
12		2486	1481	785	379	620	412	1235	1962	355	333	210	270	5	690	780	510	640	6-M20X300	YE ₃ 280S-2	75	450
DG25-30		2	1412	808	165	70		116	770	1067	344	333	170	210	4	470	485	440	440	4-M20X300	YE ₃ 160M1-2	11
	3	1477	873	230	70		116	835	1132	344	333	170	210	4	470	485	440	440	4-M20X300	YE ₃ 160M2-2	15	180
	4	1587	938	295	135		181	835	1227	344	333	170	210	4	470	485	440	440	4-M20X300	YE ₃ 160L-2	18.5	195
	5	1677	1003	360	175		221	890	1312	344	333	170	210	4	488	528	440	440	4-M20X300	YE ₃ 180M-2	22	210
	6	1847	1068	425	210		256	965	1423	344	333	170	210	4	508	573	440	440	4-M20X300	YE ₃ 200L1-2	30	225
	7	1912	1133	490	210		256	1030	1488	344	333	170	210	4	508	573	440	440	4-M20X300	YE ₃ 200L1-2	30	240
	8	1977	1198	555	305		351	996	1553	344	333	170	210	4	545	610	450	450	4-M20X300	YE ₃ 200L2-2	37	255
	9	2042	1263	620	305		351	1061	1618	344	333	170	210	4	545	610	450	450	4-M20X300	YE ₃ 200L2-2	37	270
	10	2147	1328	685	358		404	1031	1711	344	333	170	210	4	570	665	450	450	4-M20X300	YE ₃ 225M-2	45	285
	DG25-50	2	1531	881	185	162		195	745	1115	355	333	210	270	5	580	535	435	380	4-M20X300	YE ₃ 160L-2	18.5
3		1616	941	245	117		150	840	1190	355	333	210	270	5	580	560	490	490	4-M20X300	YE ₃ 180M-2	22	225
4		1781	1001	305	174		207	905	1292	355	333	210	270	5	580	585	500	500	4-M20X300	YE ₃ 200L1-2	30	250
5		1841	1061	365	204		237	935	1352	355	333	210	270	5	617	622	510	510	4-M20X300	YE ₃ 200L2-2	37	275
6		1941	1121	425	220		253	985	1433	355	333	210	270	5	630	665	540	540	4-M20X300	YE ₃ 225M-2	45	300
7		2116	1181	485	254	540	287	1075	1592	355	333	210	270	5	660	715	490	550	6-M20X300	YE ₃ 250M-2	55	325
8		2246	1241	545	281	675	314	1140	1722	355	333	210	270	5	690	780	490	650	6-M20X300	YE ₃ 280S-2	75	350
9		2306	1301	605	311	690	344	1170	1782	355	333	210	270	5	690	780	490	650	6-M20X300	YE ₃ 280S-2	75	375
10		2366	1361	665	341	705	374	1200	1842	355	333	210	270	5	690	780	490	650	6-M20X300	YE ₃ 280S-2	75	400
11		2476	1421	725	371	750	404	1265	2024	355	333	210	270	5	730	820	510	650	6-M20X300	YE ₃ 280M-2	90	425
12		2536	1481	785	401	765	434	1295	2084	355	333	210	270	5	730	820	510	650	6-M20X300	YE ₃ 280M-2	90	450
DG46-30		2	1412	808	165	70		116	770	1032	344	333	170	210	4	470	485	440	440	4-M20X300	YE ₃ 160M2-2	15
	3	1547	873	230	110		156	825	1147	344	333	170	210	4	488	528	440	440	4-M20X300	YE ₃ 180M-2	22	175
	4	1717	938	295	145		191	900	1293	344	333	170	210	4	508	573	440	440	4-M20X300	YE ₃ 200L1-2	30	190
	5	1782	1003	360	175		221	931	1358	344	333	170	210	4	545	610	450	450	4-M20X300	YE ₃ 200L2-2	37	205
	6	1847	1068	425	240		286	931	1423	344	333	170	210	4	545	610	450	450	4-M20X300	YE ₃ 200L2-2	37	220
	7	1952	1133	490	228		274	966	1516	344	333	170	210	4	570	665	450	450	4-M20X300	YE ₃ 225M-2	45	235
	8	2132	1198	555	273		322	1070	1677	344	333	170	210	4	600	715	470	560	4-M20X300	YE ₃ 250M-2	55	250
	9	2197	1263	620	338		387	1070	1742	344	333	170	210	4	600	715	470	562	4-M20X300	YE ₃ 250M-2	55	265
	10	2332	1328	685	324		373	1200	1880	344	333	170	210	4	630	780	530	615	4-M20X300	YE ₃ 280S-2	75	280
DG46-50	2	1661	881	185	102		135	845	1180	355	333	210	270	5	605	610	500	500	4-M20X300	YE ₃ 200L1-2	30	237
	3	1721	941	245	132		165	875	1240	355	333	210	270	5	605	610	500	500	4-M20X300	YE ₃ 200L2-2	37	256
	4	1821	1001	305	157		190	922	1330	355	333	210	270	5	635	670	530	530	4-M20X300			

Pump Model	Number of stages	Dimension mm																	Motor		Pump Weight kg	
		L	L1	L2	L4	L5	L6	L7	L8	La	Lb	Ha	Hb	C	H	H1	B1	B2	n-MdXI	Model		kW
DG85-67		2185	1180	283	150		204	1135	1620	470	464	270	350	5	805	815	540	650	4-M24X300	YE ₂ 280S-2	75	540
	3	2323	1268	371	196		250	1202	1758	470	464	270	350	5	805	815	540	650	4-M24X300	YE ₂ 280M-2	90	590
	4	2603	1356	459	236		290	1259	1881	470	464	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315S-2	110	640
	5	2759	1444	547	278		332	1330	2084	470	464	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315M-2	132	690
	6	2847	1532	635	326	800	380	1395	2157	470	464	270	350	5	865	1065	540	680	6-M24X300	YE ₃ 315L1-2	160	740
DG85-67 Sliding bearing structure	2	2292	1287	283	150		204	1204	1689	539	533	270	350	5	805	815	540	650	4-M24X300	YE ₂ 280S-2	75	560
	3	2430	1375	371	196		250	1271	1827	539	533	270	350	5	805	815	540	650	4-M24X300	YE ₂ 280M-2	90	610
	4	2710	1463	459	236		290	1328	1950	539	533	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315S-2	110	660
	5	2866	1551	547	278		332	1399	2088	539	533	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315M-2	132	710
	6	2954	1639	635	326	800	380	1464	2226	539	533	270	350	5	865	1065	540	680	6-M24X300	YE ₃ 315L1-2	160	760
DG100-50	2	2116	1181	283	150	—	204	1047	1536	470	464	270	350	5	760	735	540	600	4-M24X300	YE ₂ 250M-2	55	550
	3	2274	1269	371	187	—	241	1154	1707	470	464	270	350	5	805	815	540	650	4-M24X300	YE ₂ 280S-2	75	600
	4	2412	1357	459	206	801	260	1280	1846	470	464	270	350	5	805	815	540	650	6-M24X300	YE ₂ 280M-2	90	650
	5	2760	1445	547	269	622	323	1344	2084	470	464	270	350	5	845	1045	540	660	6-M24X300	YE ₃ 315M-2	132	700
	6	2848	1533	635	280	615	334	1417	2172	470	464	270	350	5	845	1045	540	660	6-M24X300	YE ₃ 315M-2	132	750
	7	2936	1621	723	327	800	381	1482	2245	470	464	270	350	5	865	1065	540	680	6-M24X300	YE ₃ 315L-2	160	800
DG125-70	3	2583	1268	371	191		245	1241	1843	470	464	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315M-2	132	600
DG155-67	2	2235	1180	283	150		204	1160	1670	470	464	270	350	5	805	810	540	650	4-M24X300	YE ₂ 280M-2	90	550
	3	2583	1268	371	191		245	1241	1908	470	464	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315M-2	132	600
DG155-67 Sliding bearing structure	3	2690	1375	371	191		245	1310	1912	539	533	270	350	5	845	1045	540	660	4-M24X300	YE ₃ 315M-2	132	620
DG200-50	2	2606	1320	367	182	600	209	1201	1831	491	521	330	450	6	960	1215	730	730	6-M24X400	YE ₃ 315S-4	110	667
	3	2888	1442	489	242	650	269	1273	2038	491	521	330	450	6	980	1235	740	740	6-M24X400	YE ₃ 315L1-4	160	787
DG280-43	2	2621	1335	375	182	600	209	1209	1821	491	521	330	450	6	960	1215	730	730	6-M24X400	YE ₃ 315S-4	110	667
	3	2911	1465	505	250	650	277	1281	2054	491	521	330	450	6	980	1235	740	740	6-M24X400	YE ₃ 315L1-4	160	787
DG360-40	2	2711	1354	399	196	635	225	1250	1895	491	521	350	450	6	980	1235	750	750	6-M30X400	YE ₃ 315M-4	132	920

Installation dimension diagram of DG intermediate/low pressure boiler feed pump with single pump base



Pump Model	Note	Installation Dimension With Single Pump Base mm																				Motor				Pump Weight kg			
		L	L1	L2	L3	L4A	L6A	L8A	La	Lb	Ha	Hb	C	H	H1A	h1	A	B	A1	B1	B11	LA	n	Md1X11	Md2X12		Model	kW	
DG85-45	9	2748	1433	721	772	51	100	832	355	333	210	250	5	660	865	75	508	508	440	632		764	4	M24X300	M20X300	YE, 315L1-2	160	425	
DG85-67	6	2847	1532	635	635	46	100	755	470	464	270	350	5	820	865	135	508	508	540	555		865	4	M24X300	M24X300	YE, 315L1-2	160	740	
	7	2935	1620	723	723	46	100	843	470	464	270	350	5	820	865	135	508	508	540	643		865	4	M24X300	M24X300	YE, 315L2-2	200	790	
	8	3253	1708	811	811	46	100	931	470	464	270	350	5	820	1035	95	610	560	540	731		903	4	M24X300	M24X300	YE, 355M1-2	220	840	
	9	3341	1796	899	899	46	100	1019	470	464	270	350	5	820	1035	95	610	560	540	819		903	4	M24X300	M24X300	YE, 355M2-2	250	890	
DG85-67 Sliding bearings	6	2954	1639	635	635	46	100	755	539	533	270	350	5	820	865	135	508	508	540	555		934	4	M24X300	M24X300	YE, 315L1-2	160	760	
	7	3042	1727	723	723	46	100	843	539	533	270	350	5	820	865	135	508	508	540	643		934	4	M24X300	M24X300	YE, 315L2-2	200	810	
	8	3360	1815	811	811	46	100	931	539	533	270	350	5	820	1035	95	610	560	540	731		972	4	M24X300	M24X300	YE, 355M1-2	220	860	
9	3448	1903	899	899	46	100	1019	539	533	270	350	5	820	1035	95	610	560	540	819		972	4	M24X300	M24X300	YE, 355M2-2	250	910		
DG100-50	7	2936	1621	723	723	46	100	843	470	464	270	350	5	845	865	160	508	508	540	643		865	4	M24X300	M24X300	YE, 315L1-2	160	800	
	8	3024	1709	811	811	46	100	931	470	464	270	350	5	845	865	160	508	508	540	731		865	4	M24X300	M24X300	YE, 315L2-2	200	850	
	9	3112	1797	899	899	46	100	1019	470	464	270	350	5	845	865	160	508	508	540	819		865	4	M24X300	M24X300	YE, 315L2-2	200	900	
	10	3430	1885	987	987	46	100	1107	470	464	270	350	5	845	1035	120	610	560	540	907		903	4	M24X300	M24X300	YE, 355M2-2	250	950	
	11	3518	1973	1075	1075	46	100	1195	470	464	270	350	5	845	1035	120	610	560	540	995		903	4	M24X300	M24X300	YE, 355M2-2	250	1000	
	12	3606	2061	1163	1163	46	100	1283	470	464	270	350	5	845	1035	120	630	630	540	1083		903	4	M24X300	M24X300	YE, 355L1-2	280	1050	
DG125-70	4	2771	1356	459	459	46	100	579	470	464	270	350	5	820	1010	95	610	500	540	379		903	4	M24X300	M24X300	YE, 355S1-2	185	650	
	5	2989	1444	547	547	46	100	667	470	464	270	350	5	820	1035	95	610	560	540	467		903	4	M24X300	M24X300	YE, 355M1-2	220	700	
	6	2947	1532	635	635	46	100	755	470	464	270	350	5	845	1035	120	610	560	540	555		903	4	M24X300	M24X300	YE, 355M2-2	250	750	
	7	3165	1620	723	723	46	100	843	470	464	270	350	5	845	1035	120	610	630	540	643		903	4	M24X300	M24X300	YE, 355L2-2	315	800	
	8	3343	1708	811	811	46	100	931	470	464	270	350	5	845	1035	120	610	630	540	731		903	4	M24X300	M24X300	YE, 355L2-2	315	850	
	9	3551	1796	899	899	46	100	1019	470	464	270	350	5	845	1060	120	630	900	540	819		994	4	M24X300	M24X300	Y3555-2-6KV	355	900	
DG155-67	4	2771	1356	459	459	46	100	579	470	464	270	350	5	820	1010	95	610	500	540	379		903	4	M24X300	M24X300	YE, 355S1-2	185	650	
	5	2989	1444	547	547	46	100	667	470	464	270	350	5	820	1035	95	610	560	540	467		903	4	M24X300	M24X300	YE, 355M1-2	220	700	
	6	3077	1532	635	635	46	100	755	470	464	270	350	5	845	1035	120	610	630	540	555		903	4	M24X300	M24X300	YE, 355L2-2	280	750	
	7	3165	1620	723	723	46	100	843	470	464	270	350	5	845	1035	120	610	630	540	643		903	4	M24X300	M24X300	YE, 355L2-2	315	800	
	8	3253	1708	811	811	46	100	931	470	464	270	350	5	845	1060	120	630	900	540	731		994	4	M24X300	M24X300	Y3555-2-6KV	355	850	
	9	3891	1796	899	899	46	100	1019	470	464	270	350	5	845	1180	75	710	1000	540	819		1054	4	M30X400	M24X300	Y4001-2-6KV	450	900	
DG155-67 Sliding bearings	4	2878	1463	459	459	46	100	579	539	533	270	350	5	820	1010	95	610	500	540	379		972	4	M24X300	M24X300	YE, 355S1-2	185	670	
	5	3096	1551	547	547	46	100	667	539	533	270	350	5	820	1035	95	610	560	540	467		972	4	M24X300	M24X300	YE, 355M1-2	220	720	
	6	3184	1639	635	635	46	100	755	539	533	270	350	5	845	1035	120	610	630	540	555		972	4	M24X300	M24X300	YE, 355L1-2	280	770	
	7	3272	1727	723	723	46	100	843	539	533	270	350	5	845	1035	120	610	630	540	643		972	4	M24X300	M24X300	YE, 355L2-2	315	820	
	8	3360	1815	811	811	46	100	931	539	533	270	350	5	845	1060	120	630	900	540	731		1063	4	M24X300	M24X300	Y3555-2-6KV	355	870	
9	3998	1903	899	899	46	100	1019	539	533	270	350	5	845	1180	75	710	1000	540	819		1123	4	M30X400	M24X300	Y4001-2-6KV	450	920		
DG200-50	3	2888	1442	489	436	63	100	556	491	521	330	450	5	980	1020	195	508	508	660	356		953	4	M24X400	M24X400	YE, 315L1-4	160	787	
	4	3010	1564	611	558	63	100	678	491	521	330	450	5	980	1020	195	508	508	660	478		953	4	M24X400	M24X400	YE, 315L2-4	200	907	
	5	3262	1688	733	680	63	100	800	491	521	330	450	5	980	1080	155	610	560	660	600		991	4	M24X400	M24X400	YE, 355M2-4	250	1027	
	6	3504	1806	855	802	63	100	922	491	521	330	450	5	1000	1080	175	610	630	660	722		991	4	M24X400	M24X400	YE, 355L2-4	315	1147	
	7	4136	1930	977	924	63	100	1044	491	521	330	450	5	1000	1140	130	710	1000	660	844		1057	4	M24X400	M24X400	Y4002-4-6KV	355	1267	
	8	4258	2052	1099	1046	63	100	1166	491	521	330	450	5	1000	1140	130	710	1000	660	966		1057	4	M24X400	M24X400	Y4003-4-6KV	400	1387	
	9	4380	2174	1221	1168	63	100	1288	491	521	330	450	5	1000	1140	130	710	1000	660	1088	550		1057	6	M30X400	M24X400	Y4004-4-6KV	450	1507
	10	4612	2296	1343	1290	63	100	1410	491	521	330	450	5	1000	1250	80	800	1120	660	1210	610		1057	6	M30X400	M24X400	Y4501-4-6KV	500	1627
	11	4734	2418	1465	1412	63	100	1532	491	521	330	450	5	1000	1250	80	800	1120	660	1332	670		1057	6	M30X400	M24X400	Y4502-4-6KV	560	1747
	12	4856	2540	1587	1534	63	100	1654	491	521	330	450	5	1000	1250	80	800	1120	660	1454	730		1057	6	M30X400	M24X400	Y4503-4-6KV	630	1867
	DG280-43	3	2911	1465	505	452	63	100	572	491	521	330	450	5	980	1020	195	508	508	660	372		953	4	M24X400	M24X400	YE, 315L1-4	160	787
		4	3171	1595	635	582	63	100	702	491	521	330	450	5	980	1080	155	610	560	660	502		991	4	M24X400	M24X400	YE, 355M1-4	220	908
5		3301	1725	765	712	63	100	832	491	521	330	450	5	980	1080	155	610	560	660	632		991	4	M24X400	M24X400	YE, 355M2-4	250	1028	
6		3551	1855	895	842	63	100	962	491	521	330	4																	

Pump Model	Inlet Flange									Outlet Flange								
	DN	X	d	K	D	f1/f2	C	n-ΦL	Standard and Pressure Grade of Pairing Steel Flange	DN	X	d	K	D	f1/f2	C	n-ΦL	Standard and Pressure Grade of Pairing Steel Flange
DG6-25	40	-	80	100	130	-/3	18	4-Φ13.5	GB/T9115.1-2000,PN0.6MPa	40	75	88	110	150	4/3	22	4-Φ17.5	GB/T9115.2-2000,PN4MPa
DG12-25	50	-	90	110	140	-/3	18	4-Φ13.5	GB/T9115.1-2000,PN0.6MPa	40	75	88	110	150	4/3	22	4-Φ17.5	GB/T9115.2-2000,PN4MPa
DG12-50	65	109	130	160	205	4/3	28	8-Φ23	GB/T9115.2-2000,PN6.3MPa	65	109	130	160	205	4/3	28	8-Φ22	GB/T9115.2-2000,PN6.3MPa
DG15-50	65	109	130	160	205	4/3	28	8-Φ22	GB/T9115.2-2000,PN6.3MPa	65	109	130	160	205	4/3	28	8-Φ22	GB/T9115.2-2000,PN6.3MPa
DG25-30	65	-	110	130	160	-/3	20	4-Φ13.5	GB/T9115.1-2000,PN0.6MPa	65	109	122	145	185	4/3	28	8-Φ17.5	GB/T9115.2-2000,PN4MPa
DG25-50	65	109	130	160	205	4/3	28	8-Φ22	GB/T9115.2-2000,PN6.3MPa	65	109	130	160	205	4/3	28	8-Φ22	GB/T9115.2-2000,PN6.3MPa
DG46-30	80	-	128	150	190	-/3	22	4-Φ17.5	GB/T9115.1-2000,PN0.6MPa	65	109	122	145	185	4/3	28	8-Φ18	GB/T9115.2-2000,PN4MPa
DG46-50	80	120	133	170	215	4/3	30	8-Φ22	GB/T9115.2-2000,PN6.3MPa	80	120	133	170	215	4/3	30	8-Φ22	GB/T9115.2-2000,PN6.3MPa
DG48-50	80	120	133	170	215	4/3	30	8-Φ22	GB/T9115.2-2000,PN6.3MPa	80	120	133	170	215	4/3	30	8-Φ22	GB/T9115.2-2000,PN6.3MPa
DG85-45	100	-	148	170	210	-/3	24	4-Φ17.5	GB/T9115.1-2000,PN0.6MPa	100	149	160	190	235	4.5/3	30	8-Φ22	GB/T9115.2-2000,PN4MPa
DG85-67	100	149	168	200	250	4.5/3	32	8-Φ26	GB/T9115.2-2000,PN6.3MPa	100	149	168	200	250	4.5/3	32	8-Φ26	GB/T9115.2-2000,PN6.3MPa
DG100-50	150	203	242	280	345	4.5/3	38	8-Φ33	GB/T9115.2-2000,PN6.3MPa	100	149	168	200	250	4.5/3	32	8-Φ26	GB/T9115.2-2000,PN6.3MPa
DG125-70	150	203	242	280	345	4.5/3	38	8-Φ33	GB/T9115.2-2000,PN6.3MPa	150	203	242	280	345	4.5/3	38	8-Φ33	GB/T9115.2-2000,PN6.3MPa
DG155-67	150	203	242	280	345	4.5/3	38	8-Φ33	GB/T9115.2-2000,PN6.3MPa	150	203	242	280	345	4.5/3	38	8-Φ33	GB/T9115.2-2000,PN6.3MPa
DG200-50	200	-	268	295	340	-/3	35	8-Φ22	GB/T9115.1-2000,PN1.0MPa	200	259	285	345	415	4.5/3	42	12-Φ36	GB/T9115.2-2000,PN6.3MPa
DG280-43	200	-	268	295	340	-/3	35	8-Φ22	GB/T9115.1-2000,PN1.0MPa	200	259	285	320	375	4.5/3	38	12-Φ30	GB/T9115.2-2000,PN4.0MPa
DG360-40	200	-	268	295	340	-/3	35	8-Φ22	GB/T9115.1-2000,PN1.0MPa	200	259	285	320	375	4.5/3	38	12-Φ30	GB/T9115.2-2000,PN4.0MPa

List of two-year wearing parts for DG boiler feed pump

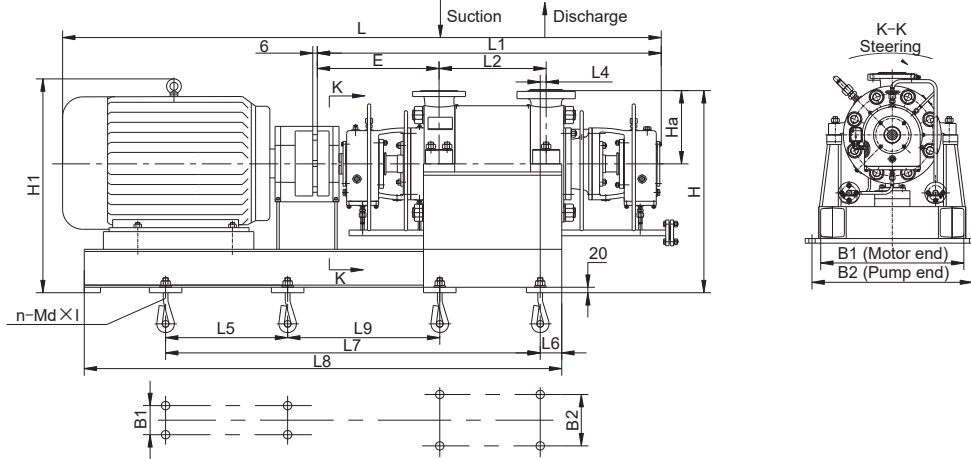
Name/Model	Rotor Part			Shaft Seal Location				
	Shaft, 1 piece	First stage impeller, 1 piece	Impeller, 2 pieces	Shaft sleeve B, 2 pieces	Shaft sleeve B, 2 pieces	Packing, 20 pieces	Machine seal shaft sleeve B	Mechanical seal, 2 sets
DG6-25	DG12-25-101	/	DG6-25-102	DG12-25-103B	B2102-70-45	Φ45XΦ65X10	DG12-25-103BJ/H75	H75-40
DG12-25		DG12-25-102A	DG12-25-102					
DG12-50		/	DG12-50-102					
DG25-30	DG46-30-101	DG25-30-102A	DG25-30-102	DG46-30-103B	B2102-70-50	Φ50XΦ70X10	DG46-30-103BJ/H75	H75-45
DG46-30		DG46-30-102A	DG46-30-102					
DG15-50		/	DG15-50-102					
DG25-50	DG25-50-101	/	DG25-50-102	DG46-50-103B	B2102-70-55	Φ55XΦ75X10	DG46-50-103BJ/H75	H75-50
DG46-50		DG46-50-102A	DG46-50-102					
DG85-45		DG85-45-102A	DG85-45-102					
DG48-50	DG48-50-101	DG48-50-102A	DG48-50-102	DG48-50-103B	B2102-70-65	Φ65XΦ89X12	DG48-50-103BJ/H75	H75-60
DG85-67		DG85-67-101	DG85-67-102A					
DG100-50		DG100-50-101 (10-12 level)	DG100-50-102A					
DG125-70	DG155-67-101	DG125-70-102A	125-70-102	DG155-67-103B	B2102-70-75A	Φ75XΦ107X16	DG155-67-103BJ/H75	H75-70
DG155-67	DG155-67-101	DG155-67-102A	DG155-67-102					
DG85-67 Sliding bearings	DG155-67-101H	DG85-67-102A	DG85-67-102					
DG155-67 Sliding bearings		DG155-67-102A	DG155-67-102					
DG200-50		MD200-50-101	MD200-50-102A					
DG280-43	MD280-43-101-06	MD280-43-102A-06	MD280-43-102-06	MD280-43-103B-06	B2102-70-90	Φ90XΦ122X16	MD280-43-103BJ/H75-06	H75-85
DG360-40	MD360-40-101-06	MD360-40-102A-06	MD360-40-102-06					

Name/Model	Seal rings (Quantity of seal ring A is short by 1 if seal ring C is available)			Bearing Part		Balance Mechanism	
	Seal ring A, N pieces (For intermediate segment)	Seal ring B, N-1 pieces (Guide vane sleeve)	Seal ring C, 1 piece (First stage impeller ring)	Bearing bushing, 2 pieces	Bearing, 2 pieces	Balance disc, 2 pieces	Balance ring, 2 pieces
DG6-25	DG12-25-013A	DG12-25-013B	/	DG12-25-105	NU308E	DG12-25-103	DG12-25-008
DG12-25			DG12-25-013C				
DG12-50			/				
DG25-30	DG46-30-013A	DG46-30-013B	DG46-30-013C	DG46-30-105	NU309E	DG46-30-103	DG46-30-008
DG46-30							
DG15-50							
DG25-50	DG25-50-013A	DG46-50-013B	/	DG46-50-105	NU310E	DG46-50-103	DG46-50-008
DG46-50			DG46-50-013C				
DG85-45			DG85-45-013A				
DG48-50	DG48-50-013A	DG48-50-013B	DG48-50-013C	DG48-50-105	NU312E	DG48-50-103	DG48-50-008
DG85-67	DG155-67-013A	DG85-67-013B	DG85-67-013C	DG155-67-105	NU315E	DG155-67-103	DG155-67-008-1 Additional DG155-67-008-2 (Balance sleeve, 2 pieces)
DG100-50		DG155-67-013B	DG155-67-013C				
DG125-70		DG155-67-013B	DG155-67-013C				
DG155-67		DG155-67-013B	DG155-67-013C				
DG85-67 Sliding bearings		DG155-67-013B	DG155-67-013C				
DG155-67 Sliding bearings		DG155-67-013B	DG155-67-013C				
DG200-50		MD200-50-013A	MD280-43-013B-06				
DG280-43	MD280-43-013A-06	MD280-43-013B-06	MD280-43-013C-06				
DG360-40	MD360-40-013A-06	MD360-40-013B-06	MD360-40-013C-06				

Name/Model	O-ring Set							
	Intermediate segment seal, N pieces	Cooler seal, 1 piece	Water cooling chamber cover seal, 2 pieces	Water cooling chamber cover seal, 2 pieces	Balance ring seal A, 1 piece	Balance ring seal B, 1 piece	Mechanical seal gland seal, 2 pieces	Shaft sleeve seal, 2 pieces
DG6-25	195X2.65	130X2.65	130X2.65	75X2.65	78X2.65	46.2X2.65	65X2.65	30X2.65
DG12-25								
DG12-50								
DG25-30	236X3.55	175X3.55	185X2.65	80X2.65	95X2.65	61X2.65	69X2.65	32.5X2.65
DG46-30								
DG15-50								
DG25-50	270X3.55	180X3.55	185X3.55	90X3.55	118X2.65	65X2.65	75X2.65	40X2.65
DG46-50								
DG85-45								
DG48-50	280X3.55	190X3.55	195X3.55	103X3.55	75X2.65	90X2.65	50X2.65	
DG85-67								
DG100-50								
DG125-70	360X3.55	250X3.55	255X3.55	122X2.65	165X3.55	/	106X2.65	60X2.65
DG155-67								
DG85-67 Sliding bearings								
DG200-50	515X5.3	307X3.55	258X3.55	200X3.55	200X3.55	/	122X2.65	69X2.65
DG280-43	530X5.3							
DG360-40	565X5.3							

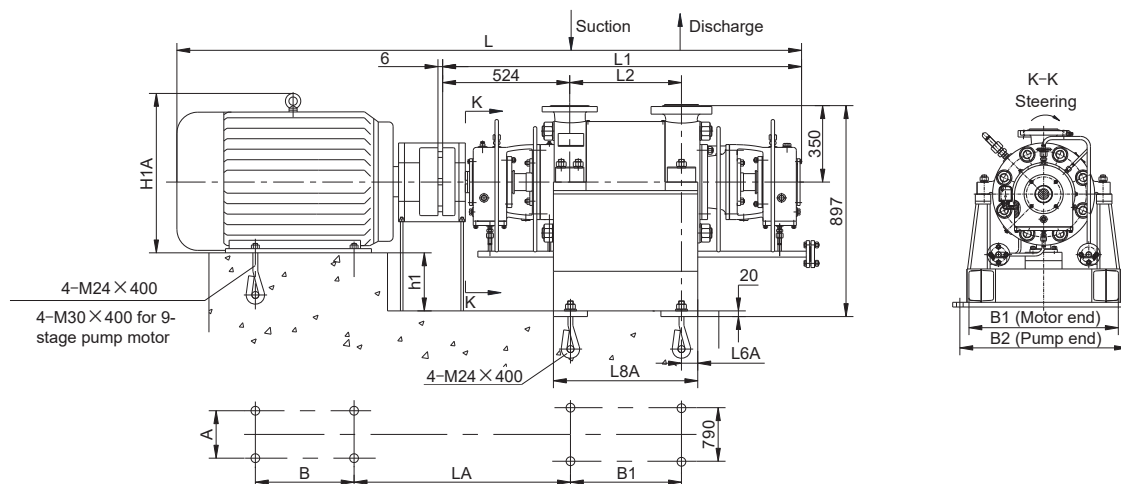
ZDG Type High Temperature Boiler Feed Water Pump Installation Dimension Diagram

ZDG high temperature boiler feed pump with public base installation dimension diagram



Pump Model	Dimension mm																Motor	
	L	L1	L2	L4	L5	L6	L7	L8	L9	E	Ha	H	H1	B1	B2	n-MdXL	Model	kW
ZDG15-50X2	1605	1000	185	90	405	140	850	1144	—	426	270	700	655	540	660	6-M24X400	YE3160M2-2	15
ZDG15-50X3	1710	1060	245	120	450	170	925	1248	—	426	270	700	655	540	660	6-M24X400	YE3160L-2	18.5
ZDG15-50X4	1795	1120	305	150	445	200	950	1313	—	426	270	700	680	540	660	6-M24X400	YE3180M-2	22
ZDG15-50X5	1960	1180	365	10	430	60	1225	1451	450	426	270	700	705	540	660	8-M24X400	YE3200L1-2	30
ZDG15-50X6	2020	1240	425	10	420	60	1300	1511	475	426	270	700	705	540	660	8-M24X400	YE3200L1-2	30
ZDG15-50X7	2080	1300	485	10	400	60	1280	1571	415	426	270	700	705	540	660	8-M24X400	YE3200L2-2	37
ZDG15-50X8	2180	1360	545	10	400	60	1425	1657	500	426	270	700	735	540	655	8-M24X400	YE3225M-2	45
ZDG15-50X9	2240	1420	605	10	400	60	1485	1717	500	426	270	700	735	540	655	8-M24X400	YE3225M-2	45
ZDG15-50X10	2415	1480	665	10	500	60	1645	1876	500	426	270	700	755	540	655	8-M24X400	YE3250M-2	55
ZDG15-50X11	2475	1540	725	10	500	60	1705	1936	500	426	270	700	755	540	655	8-M24X400	YE3250M-2	55
ZDG15-50X12	2605	1600	785	10	500	60	1830	2065	565	426	270	730	820	655	655	8-M24X400	YE3280S-2	75
ZDG25-50X2	1650	1000	185	90	440	140	885	1181	—	426	270	700	635	540	660	6-M24X400	YE3160L-2	18.5
ZDG25-50X3	1735	1060	245	120	450	170	925	1248	—	426	270	700	680	540	660	6-M24X400	YE3180M-2	22
ZDG25-50X4	1900	1120	305	150	510	200	1015	1380	—	426	270	700	705	540	660	6-M24X400	YE3200L1-2	30
ZDG25-50X5	1960	1180	365	10	420	60	1215	1440	450	426	270	700	705	540	660	8-M24X400	YE3200L2-2	37
ZDG25-50X6	2060	1240	425	10	430	60	1310	1526	475	426	270	700	735	540	660	8-M24X400	YE3225M-2	45
ZDG25-50X7	2235	1300	485	10	450	60	1390	1680	475	426	270	700	755	540	660	8-M24X400	YE3250M-2	55
ZDG25-50X8	2365	1360	545	10	510	60	1650	1882	615	426	270	730	820	655	655	8-M24X400	YE3280S-2	75
ZDG25-50X9	2425	1420	605	10	510	60	1710	1942	615	426	270	730	820	655	655	8-M24X400	YE3280S-2	75
ZDG25-50X10	2485	1480	665	10	510	60	1770	2002	615	426	270	730	820	655	655	8-M24X400	YE3280S-2	75
ZDG25-50X11	2595	1540	725	10	560	60	1880	2112	615	426	270	730	820	655	655	8-M24X400	YE3280M-2	90
ZDG25-50X12	2655	1600	785	10	560	60	1940	2172	615	426	270	730	820	655	655	8-M24X400	YE3280M-2	90
ZDG48-50X2	1849	1073	200	2.5	450	60	1055	1310	410	449	270	710	760	600	705	8-M24X400	YE3200L1-2	30
ZDG48-50X3	1914	1138	265	2.5	450	60	1120	1375	410	449	270	710	760	600	705	8-M24X400	YE3200L2-2	37
ZDG48-50X4	2024	1203	330	2.5	485	60	1220	1470	410	449	270	710	775	600	705	8-M24X400	YE3225M-2	45
ZDG48-50X5	2189	1268	395	2.5	485	60	1285	1625	410	449	270	720	815	600	705	8-M24X400	YE3250M-2	55
ZDG48-50X6	2324	1333	460	2.5	540	60	1405	1750	410	449	270	745	875	705	705	8-M24X400	YE3280S-2	75
ZDG48-50X7	2439	1398	525	2.5	570	60	1500	1865	410	449	270	745	875	705	705	8-M24X400	YE3280M-2	90
ZDG48-50X8	2504	1463	590	2.5	570	60	1565	1930	410	449	270	745	875	705	705	8-M24X400	YE3280M-2	90
ZDG48-50X9	2714	1528	655	2.5	590	60	1650	2030	410	449	270	780	1040	705	705	8-M24X400	YE3315S-2	110
ZDG48-50X10	2889	1593	720	2.5	605	60	1730	2205	410	449	270	780	1040	705	705	8-M24X400	YE3315M-2	132
ZDG48-50X11	2954	1658	785	2.5	605	60	1795	2270	410	449	270	780	1040	705	705	8-M24X400	YE3315M-2	132
ZDG48-50X12	3019	1723	850	2.5	630	60	1885	2335	410	449	270	780	1040	705	705	8-M24X400	YE3315L-2	160
ZDG85-67X2	2273	1267	283	0	501	60	1611	1731	562	524	350	897	974	790	790	8-M24X400	YE3280S-2	75
ZDG85-67X3	2411	1355	371	0	501	60	1699	1819	612	524	350	897	974	790	790	8-M24X400	YE3280M-2	90
ZDG85-67X4	2691	1443	459	0	601	60	1837	1957	662	524	350	897	1077	790	790	8-M24X400	YE3315S-2	110
ZDG85-67X5	2847	1531	547	0	627	60	1951	2071	662	524	350	897	1077	790	790	8-M24X400	YE3315M-2	132
ZDG85-67X6	2935	1619	635	0	662	60	2074	2194	662	524	350	897	1077	790	790	8-M24X400	YE3315L1-2	160
ZDG100-50X2	2186	1251	283	0	360	85	1463	1608	820	511	350	810	825	750	750	8-M24X400	YE3250M-2	55
ZDG100-50X3	2344	1339	371	0	368	85	1585	1740	846	511	350	820	870	750	750	8-M24X400	YE3280S-2	75
ZDG100-50X4	2482	1427	459	0	419	85	1724	1880	846	511	350	820	870	750	750	8-M24X400	YE3280M-2	90
ZDG100-50X5	2830	1515	547	0	457	85	1876	2085	872	511	350	860	1040	750	750	8-M24X400	YE3315M-2	132
ZDG100-50X6	2918	1603	635	0	457	85	1964	2200	872	511	350	860	1040	750	750	8-M24X400	YE3315M-2	132
ZDG100-50X7	3006	1691	723	0	508	85	2103	2288	872	511	350	860	1040	750	750	8-M24X400	YE3315M-2	132
ZDG125-70X2	2307	1251	283	0	419	85	1700	1900	847	511	350	820	870	750	750	8-M24X400	YE3280M-2	90
ZDG125-70X3	2655	1339	371	0	457	85	1720	2028	873	511	350	860	1040	750	750	8-M24X400	YE3315M-2	132
ZDG155-67X2	2307	1251	283	0	419	85	1700	1900	847	511	350	820	870	750	750	8-M24X400	YE3280M-2	90
ZDG155-67X3	2655	1339	371	0	457	85	1720	2028	873	511	350	860	1040	750	750	8-M24X400	YE3315M-2	132

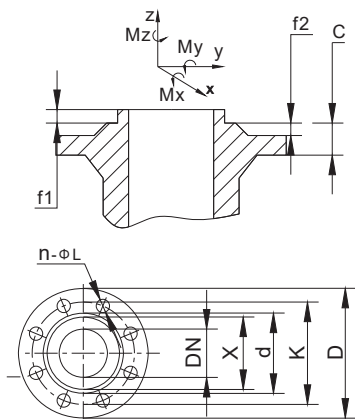
ZDG high temperature boiler feed pump with single pump base installation dimension diagram



Pump Model	Number of Stages	Single Pump Base Installation Dimension mm											Motor	
		L	L1	L2	L6A	L8A	H1A	h1	A	B	B1	LA	Model	kW
ZDG85-67X7	7	3023	1707	723	60	863	865	212	508	508	743	866	YE3315L2-2	200
ZDG85-67X8	8	3341	1795	811	60	951	1035	172	610	560	831	904	YE3355M1-2	220
ZDG85-67X9	9	3429	1883	899	60	1039	1035	172	610	560	919	904	YE3355M2-2	250
ZDG100-50X7	7	3006	1691	723	85	893	845	195	508	508	723	872	YE3315L1-2	160
ZDG100-50X8	8	3094	1779	811	85	981	845	195	508	508	811	872	YE3315L2-2	200
ZDG100-50X9	9	3182	1867	899	85	1069	845	195	508	508	899	872	YE3315L2-2	200
ZDG100-50X10	10	3500	1955	987	85	1157	1010	155	610	560	987	910	YE3355M2-2	250
ZDG100-50X11	11	3588	2043	1075	85	1245	1010	155	610	560	1075	910	YE3355M2-2	250
ZDG100-50X12	12	3676	2131	1163	85	1333	1010	155	610	630	1163	910	YE3355L1-2	280
ZDG125-70X4	4	2743	1427	459	85	629	845	195	508	508	459	911	YE3315L2-2	185
ZDG125-70X5	5	3061	1515	547	85	717	1010	195	610	560	547	911	YE3355M1-2	220
ZDG125-70X6	6	3109	1603	635	85	805	1010	155	610	560	635	911	YE3355M2-2	250
ZDG125-70X7	7	3237	1691	723	85	893	1010	155	610	630	723	911	YE3355L2-2	315
ZDG125-70X8	8	3415	1779	811	85	981	1010	155	610	630	811	911	YE3355L2-2	315
ZDG125-70X9	9	3623	1867	899	85	1069	1070	155	630	900	899	1002	Y3555-2-6KV	355
ZDG155-67X4	4	2743	1427	459	85	629	845	195	508	508	459	911	YE3315L2-2	185
ZDG155-67X5	5	3061	1515	547	85	717	1010	155	610	560	547	911	YE3355M1-2	220
ZDG155-67X6	6	3149	1603	635	85	805	1010	155	610	630	635	911	YE3355L1-2	280
ZDG155-67X7	7	3237	1691	723	85	893	1010	155	610	630	723	911	YE3355L2-2	315
ZDG155-67X8	8	3655	1779	811	85	981	1070	155	630	900	811	1002	Y3555-2-6KV	355
ZDG155-67X9	9	3963	1867	899	85	1069	1200	110	710	1000	899	1062	Y4001-2-6KV	450

ZDG high temperature boiler feed pump standard of inlet and outlet flanges

Dimensions of pump inlet and outlet flanges

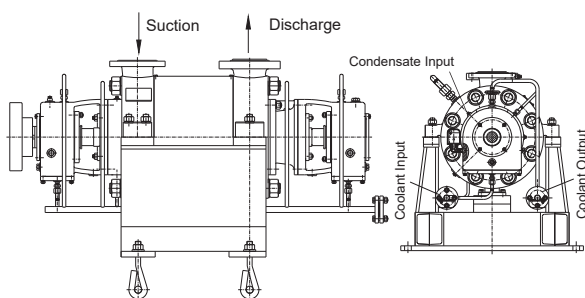


Pump Model	Inlet Flange										Outlet Flange									
	DN	X	d	K	D	f1/f2	C	n-φL	Standard and pressure grade of pairing steel flange		DN	X	d	K	D	f1/f2	C	n-φL	Standard and pressure grade of pairing steel flange	
ZDG15-50	65	-	120	145	185	-/3	28	4-φ18	GB/T9115.1-2000,PN1.6MPa		65	109	130	160	205	4/3	28	8-φ23	GB/T9115.2-2000,PN6.3MPa	
ZDG25-50	65	-	120	145	185	-/3	28	4-φ18	GB/T9115.1-2000,PN1.6MPa		65	109	130	160	205	4/3	28	8-φ23	GB/T9115.2-2000,PN6.3MPa	
ZDG48-50	80	-	135	160	195	-/3	22	8-φ18	GB/T9115.1-2000,PN1.6MPa		80	120	133	170	215	4/3	30	8-φ23	GB/T9115.2-2000,PN6.3MPa	
ZDG85-67	100	-	149	180	220	-/4.5	22	8-φ18	GB/T9115.1-2000,PN1.6MPa		100	149	168	200	250	4.5/3	32	8-φ24	GB/T9115.2-2000,PN6.3MPa	
ZDG100-50	150	-	211	285	32	-/2	32	8-φ22	GB/T9115.1-2000,PN1.6MPa		100	149	168	200	250	4.5/3	32	8-φ24	GB/T9115.2-2000,PN6.3MPa	
ZDG125-70	150	-	211	285	32	-/2	32	8-φ22	GB/T9115.1-2000,PN1.6MPa		150	203	242	280	345	4.5/3	38	8-φ33	GB/T9115.2-2000,PN6.3MPa	
ZDG155-67	150	-	211	285	32	-/2	32	8-φ22	GB/T9115.1-2000,PN1.6MPa		150	203	242	280	345	4.5/3	38	8-φ33	GB/T9115.2-2000,PN6.3MPa	

Permissible applied forces and torques on flanges of ZDG high temperature boiler feed pump

Pump Model	Location	Bore Diameter	Force (N)				Torque (Nm)			
			Fx	Fy	Fz	Σ F	Mx	My	Mz	Σ M
ZDG15-50	Inlet	65	2100	1850	1700	3300	1500	1100	1200	2200
	Outlet	65	2100	1850	1700	3300	1500	1100	1200	2200
ZDG25-50	Inlet	65	2100	1850	1700	3300	1500	1100	1200	2200
	Outlet	65	2100	1850	1700	3300	1500	1100	1200	2200
ZDG48-50	Inlet	80	2500	2250	2050	3950	1600	1150	1300	2350
	Outlet	80	2500	2250	2050	3950	1600	1150	1300	2350
ZDG85-67	Inlet	100	3350	3000	2700	5250	1750	1250	1450	2600
	Outlet	100	3350	3000	2700	5250	1750	1250	1450	2600
ZDG100-50	Inlet	150	5000	4500	4050	7850	2500	1750	2050	3650
	Outlet	100	3350	3000	2700	5250	1750	1250	1450	2600
ZDG125-70	Inlet	150	5000	4500	4050	7850	2500	1750	2050	3650
	Outlet	150	5000	4500	4050	7850	2500	1750	2050	3650
ZDG155-67	Inlet	150	5000	4500	4050	7850	2500	1750	2050	3650
	Outlet	150	5000	4500	4050	7850	2500	1750	2050	3650

ZDG high temperature boiler feed pump coolant requirement and interface dimensions



Pump Model	Cooling Manifold Pipe					Mechanical Seal Chamber (Packing Chamber)				
	Medium	Interface Dimension (Flange Connection)	Temperature(°C)	Pressure (MPa)	Capacity (m³/h)	Medium	Interface Dimension (Flange Connection)	Temperature(°C)	Pressure(MPa)	Capacity(m³/h)
ZDG15-50	Industrial water	DN15, PN10	≤30°C	0.2~0.4	2~3	Condensate	1/4"	≤30°C	2-3 kg higher than the pump inlet pressure	1~2
ZDG25-50	Industrial water	DN15, PN10	≤30°C	0.2~0.4	2~3	Condensate	1/4"	≤30°C		1~2
ZDG48-50	Industrial water	DN15, PN10	≤30°C	0.2~0.4	2~3	Condensate	1/4"	≤30°C		1~2
ZDG85-67	Industrial water	DN15, PN10	≤30°C	0.2~0.4	3~5	Condensate	3/8"	≤30°C		2
ZDG100-50	Industrial water	DN15, PN10	≤30°C	0.2~0.4	3~5	Condensate	3/8"	≤30°C		2
ZDG125-70	Industrial water	DN15, PN10	≤30°C	0.2~0.4	3~5	Condensate	3/8"	≤30°C		2
ZDG155-67	Industrial water	DN15, PN10	≤30°C	0.2~0.4	3~5	Condensate	3/8"	≤30°C		2

List of two-year spare parts (With one standby pump)

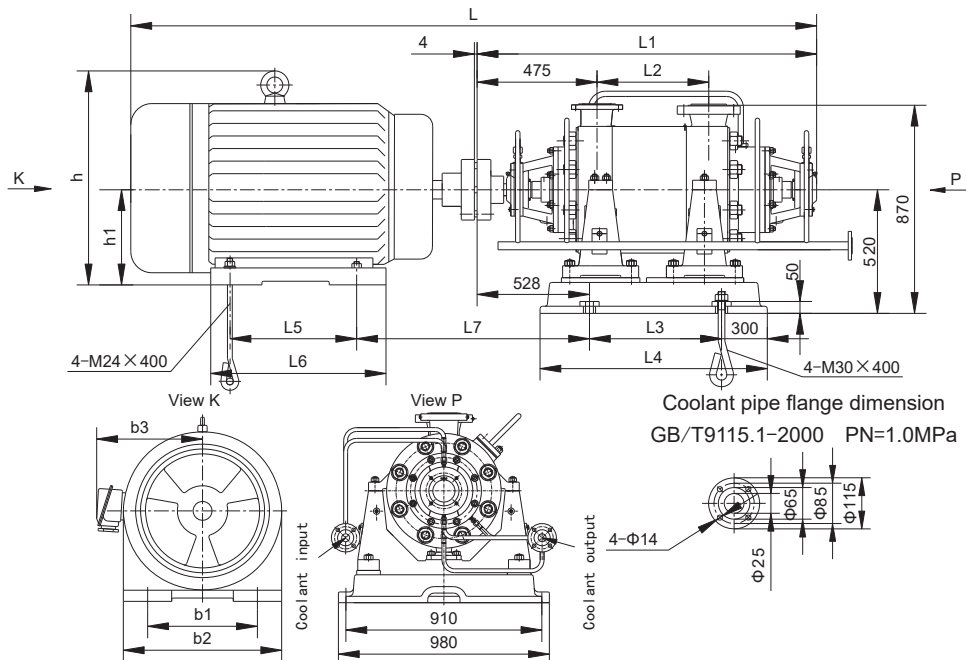
List of two-year spare parts (With one standby pump)						
Pump Model	Rotor Subassembly			Balance Mechanism		
	Shaft, 1 piece	First stage impeller, 1 piece	Impeller, 2 pieces	Balance disc, 2 pieces	Balance ring, 2 pieces	Balance sleeve, 2 pieces
ZDG15-50	ZDG25-50-101	/	DG15-50-102	DG46-50-103	DG46-50-008	/
ZDG25-50			DG25-50-102			
ZDG48-50	ZDG48-50-101	DG48-50-102A	DG48-50-102	DG48-50-103	DG48-50-008	DG155-67-008-2
ZDG85-67	ZDG155-67-101	DG85-67-102A	DG85-67-102	DG155-67-103	DG155-67-008-1	
ZDG100-50		DG100-50-102A	DG100-50-102			
ZDG125-70		DG125-70-102A	DG125-70-102			
ZDG155-67		DG155-67-102A	DG155-67-102			

Pump Model	Shaft Seal Location				Seal Rings (Quantity of seal ring A is short by 1 if seal ring C is available)			
	Shaft sleeve, 2 pieces	Packing ring, 2 pieces	Packing, 20 pieces	Mechanical seal, 2 sets	Bearing, 2 pieces	Seal ring A, N pieces (For intermediate segment)	Seal ring B, N-1 pieces (Guide vane sleeve)	Seal ring C, 1 piece (For suction segment)
ZDG15-50	DG46-50-103B	B2102-70-55	Φ55XΦ75X10	H75-50	NU310E(2~9 level) NU309E(10~12 level)	DG25-50-013A	DG46-50-013B	/
ZDG25-50								
ZDG48-50	DG48-50-103B	B2102-70-65	Φ65XΦ90X12	H75-60	NU312E	DG48-50-013A	DG48-50-013B	DG48-50-013C
ZDG85-67								
ZDG100-50								
ZDG125-70								
ZDG155-67	DG155-67-103B	B2102-70-75A	Φ75XΦ107X16	H75-70	NU315E	DG155-67-013A	DG155-67-013B	DG155-67-013C

Pump Model	O-ring Set							
	Intermediate segment seal, N pieces	Cooler seal, 1 piece	Water cooling chamber cover seal, 2 pieces	Water cooling chamber cover seal, 2 pieces	Balance ring seal, 1 piece	Mechanical seal gland seal, 2 pieces	Bushing seal, 2 pieces	Bearing gland seal, 2 pieces
ZDG15-50	270X3.55	180X3.55	185X3.55	90X3.55	118X2.65	75X2.65	40X2.65	106X2.65
ZDG25-50							45X2.65(Above level 10)	
ZDG48-50	280X3.55	190X3.55	195X3.55	103X3.55	165X3.55	90X2.65	50X2.65	118X2.65
ZDG85-67	360X3.55	250X3.55	255X3.55	122X2.65		106X2.65	60X2.65	140X2.65
ZDG100-50								
ZDG125-70								
ZDG155-67								

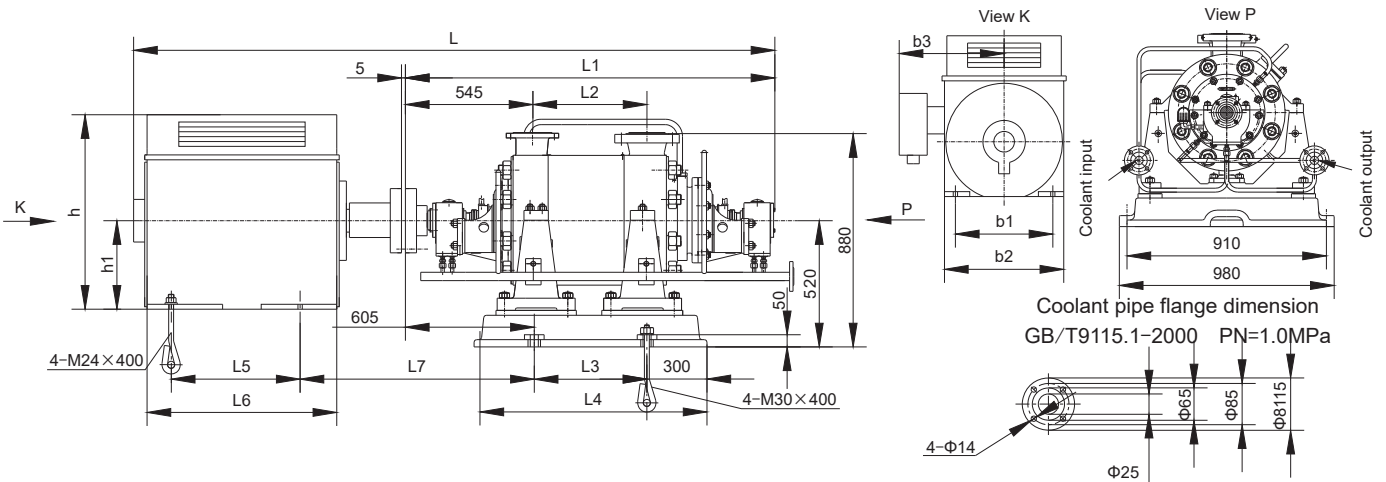
DG Type Sub-High Pressure and High Pressure Boiler Feed Water Pump Installation Dimension Diagram

DG25-80, DG36-80, DG45-80 Installation Dimension Diagram



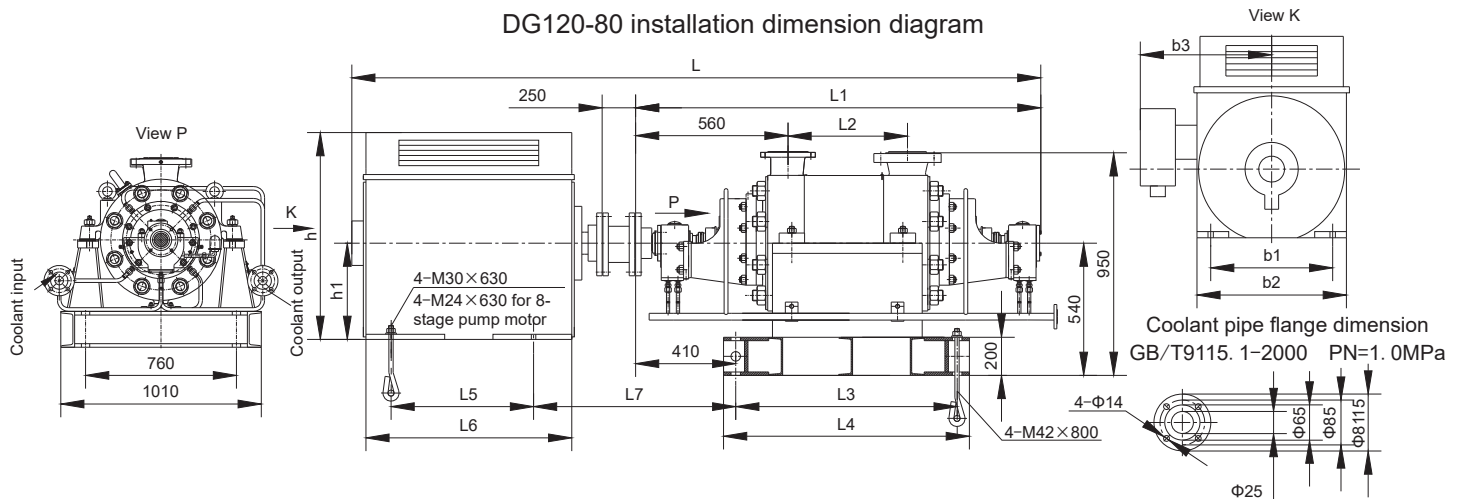
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)								
DG25-80X7	2783	1539	615	432	1032	406	609	888	865	315	508	644	576	YE3315S-2/110kW	980	1437								
DG25-80X8	2932	1618	694	590	1190	457	660							YE3315M-2/132kW	1080	1510								
DG25-80X9	3011	1697	773			YE3315L1-2/160kW	1100							1583										
DG25-80X10	3090	1776	852	827	1427	508	711							YE3315L2-2/185kW	1200	1656								
DG25-80X11	3169	1855	931											YE3315S-2/110kW	1200	1729								
DG25-80X12	3248	1934	1010													1802								
Model and Specification	L	L1	L2					L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)				
DG36-80X7	2853	1539	615	432	1032	457	660	888	865	315	508	644	576	YE3315M-2/132kW	1080	1472								
DG36-80X8	2932	1618	694	590	1190											508	711	YE3315L1-2/160kW	1100	1618				
DG36-80X9	3451	1697	773			827	1427							YE3315L2-2/185kW	1200				1691					
DG36-80X10	3530	1776	852	YE3315L2-2/200kW	1200										1764									
DG36-80X11	3609	1855	931											1837										
DG36-80X12	3688	1934	1010																					
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)								
DG45-80X6	2774	1460	536	432	1032	508	720	888	845	315	508	635	530	YE3315L1-2/160kW	1100	1494								
DG45-80X7	2853	1539	615													590	1190	900	1360	1017	1060	355	630	800
DG45-80X8	2932	1618	694	1640																				
DG45-80X9	3451	1697	773	827	1427	Y3551-2-220kW/6kV	2010							1713										
DG45-80X10	3530	1776	852											Y3552-2-250kW/6kV	2050	1786								
DG45-80X11	3609	1855	931														Y3553-2-280kW/6kV							
DG45-80X12	3688	1934	1010															1932						

DG65-80, DG85-80 installation dimension diagram



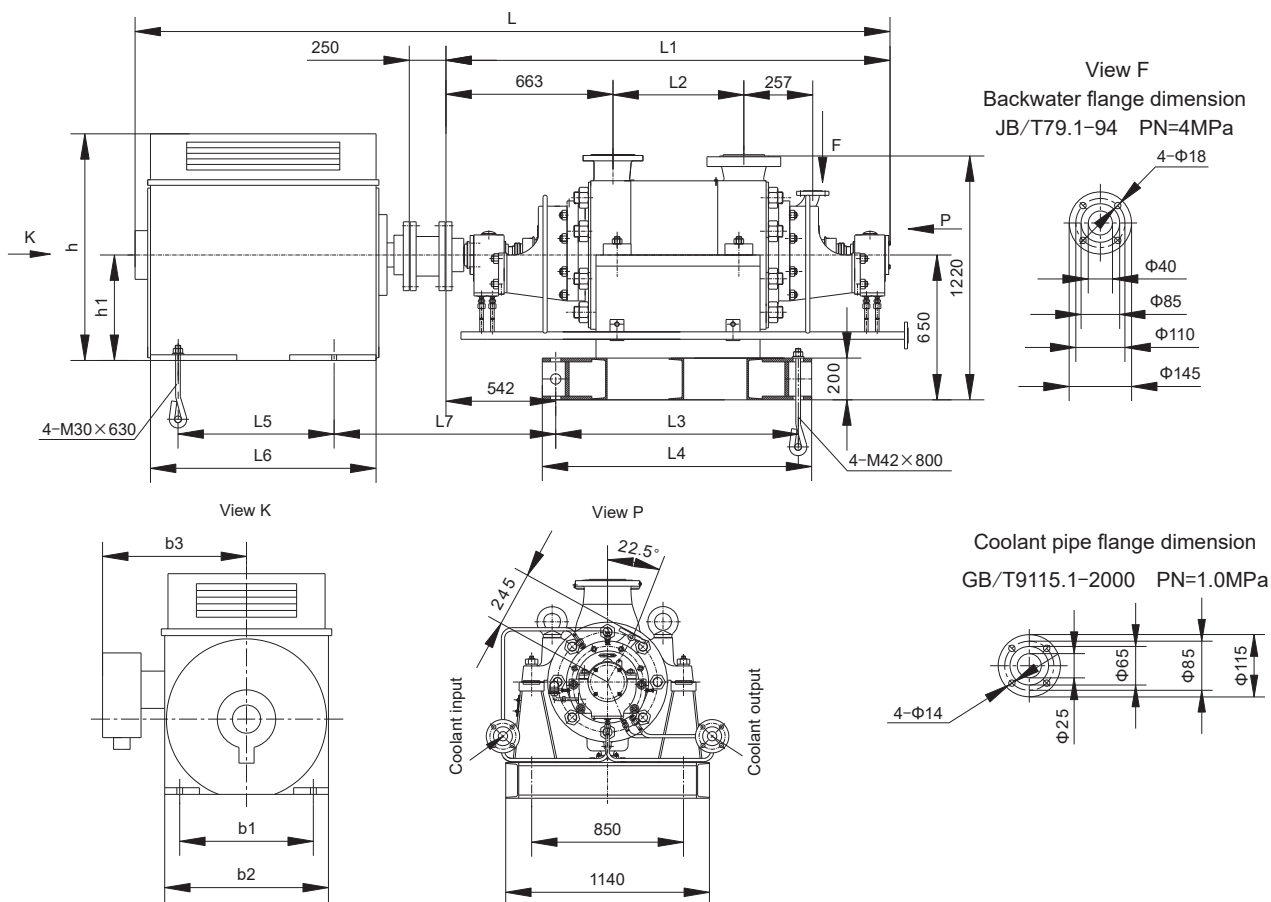
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG65-80×7	3455	1700	630	432	1032	900	1360	1095	1060	355	630	800	755	Y3551-2-220kW/6kV	2010	1567
DG65-80×8	3535	1780	710	590	1190									Y3552-2-250kW/6kV	2050	1640
DG65-80×9	3615	1860	790	590	1190									Y3553-2-280kW/6kV	2120	1713
DG65-80×10	3695	1940	870	590	1190									Y3554-2-315kW/6kV	2160	1786
DG65-80×11	3775	2020	950	827	1427									Y3554-2-315kW/6kV	2160	1859
DG65-80×12	3855	2100	1030	827	1427									Y3555-2-355kW/6kV	2250	1932
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG85-80×7	3455	1700	630	432	1032	900	1360	1095	1060	355	630	800	755	Y3552-2-250kW/6kV	2050	1567
DG85-80×8	3535	1780	710	590	1190									Y3553-2-280kW/6kV	2120	1640
DG85-80×9	3615	1860	790	590	1190									Y3555-2-355kW/6kV	2250	1713
DG85-80×10	3695	1940	870	590	1190									Y3555-2-355kW/6kV	2250	1786
DG85-80×11	3775	2020	950	827	1427									Y3556-2-400kW/6kV	2260	1859
DG85-80×12	3985	2100	1030	827	1427	1000	1500	1155	1180	400	710	900	800	Y4001-2-450kW/6kV	2800	1932

DG120-80 installation dimension diagram



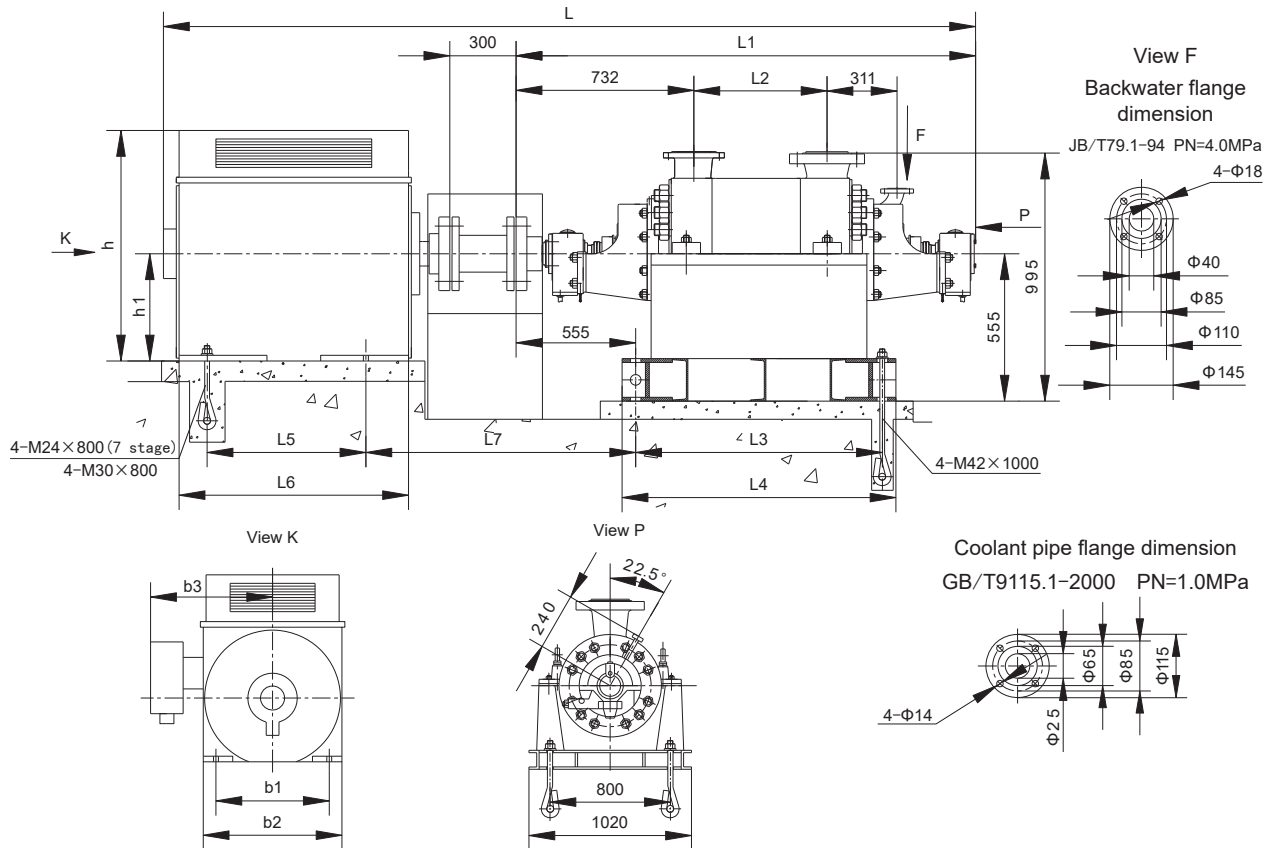
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG120-80×8	3965	1965	850	1150	1270	900	1360	1145	1060	355	630	800	755	Y3556-2-400kW/6kV	2260	2330
DG120-80×9	4190	2060	945	1245	1365	1000	1500	1205	1180	400	710	900	800	Y4001-2-450kW/6kV	2800	2450
DG120-80×10	4285	2155	1040	1340	1460									Y4002-2-500kW/6kV	2880	2570
DG120-80×11	4380	2250	1135	1435	1555									Y4003-2-560kW/6kV	2990	2690
DG120-80×12	4475	2345	1230	1530	1650									Y4004-2-630kW/6kV	3090	2810

DG150-100, DG180-100, DG200-100, DG245-100, DG280-100 installation dimension diagram



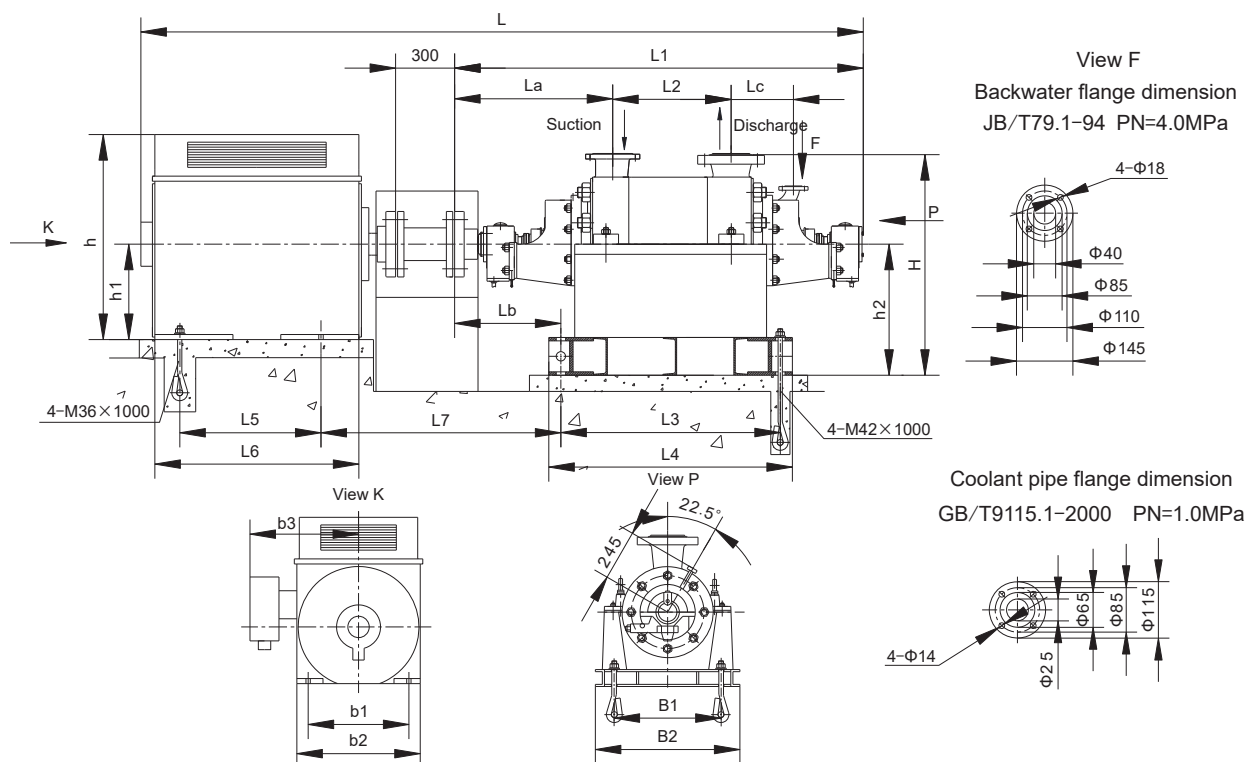
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG150-100×6	4142	2012	795	1057	1185	1000	1500	1337	1180	400	710	900	800	Y4001-2-450kW/6kV	2800	2735
DG150-100×7	4247	2117	900	1162	1290									Y4002-2-500kW/6kV	2880	2885
DG150-100×8	4352	2222	1005	1267	1395									Y4004-2-630kW/6kV	3090	3035
DG150-100×9	4457	2327	1110	1372	1500									Y4004-2-630kW/6kV	3090	3185
DG150-100×10	4682	2432	1215	1477	1605									Y4502-2-800kW/6kV	3740	3335
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG180-100×6	4142	2012	795	1057	1185	1000	1500	1337	1180	400	710	900	800	Y4003-2-560kW/6kV	2990	2735
DG180-100×7	4247	2117	900	1162	1290									Y4004-2-630kW/6kV	3090	2885
DG180-100×8	4472	2222	1005	1267	1395									Y4501-2-710kW/6kV	3580	3035
DG180-100×9	4577	2327	1110	1372	1500									Y4502-2-800kW/6kV	3740	3185
DG180-100×10	4682	2432	1215	1477	1605									Y4503-2-900kW/6kV	3900	3335
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG200-100×6	4142	2012	795	1057	1185	1000	1500	1337	1180	400	710	900	800	Y4003-2-560kW/6kV	2990	2735
DG200-100×7	4247	2117	900	1162	1290									Y4004-2-630kW/6kV	3090	2885
DG200-100×8	4472	2222	1005	1267	1395									Y4501-2-710kW/6kV	3580	3035
DG200-100×9	4577	2327	1110	1372	1500									Y4502-2-800kW/6kV	3740	3185
DG200-100×10	4682	2432	1215	1477	1605									Y4503-2-900kW/6kV	3900	3335
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG245-100×6	4142	2012	795	1057	1185	1120	1620	1402	1320	450	800	980	840	Y4004-2-630kW/6kV	3090	2848
DG245-100×7	4367	2117	900	1162	1290									Y4501-2-710kW/6kV	3580	2998
DG245-100×8	4472	2222	1005	1267	1395									Y4502-2-800kW/6kV	3740	3148
DG245-100×9	4577	2327	1110	1372	1500									Y4503-2-900kW/6kV	3900	3298
DG245-100×10	4682	2432	1215	1477	1605									Y4504-2-1000kW/6kV	4060	3448
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG280-100×6	4262	2012	795	1057	1185	1120	1620	1402	1320	450	800	980	840	Y4501-2-710kW/6kV	3580	2848
DG280-100×7	4367	2117	900	1162	1290									Y4503-2-900kW/6kV	3900	2998
DG280-100×8	4472	2222	1005	1267	1395									Y4504-2-1000kW/6kV	4060	3148
DG280-100×9	4927	2327	1110	1372	1500									Y5001-2-1120kW/6kV	4000	3298
DG280-100×10	5032	2432	1215	1477	1605									Y5002-2-1250kW/6kV	4300	3448

DG85-120, DG85-136, DG120-120, 1DG installation dimension diagram



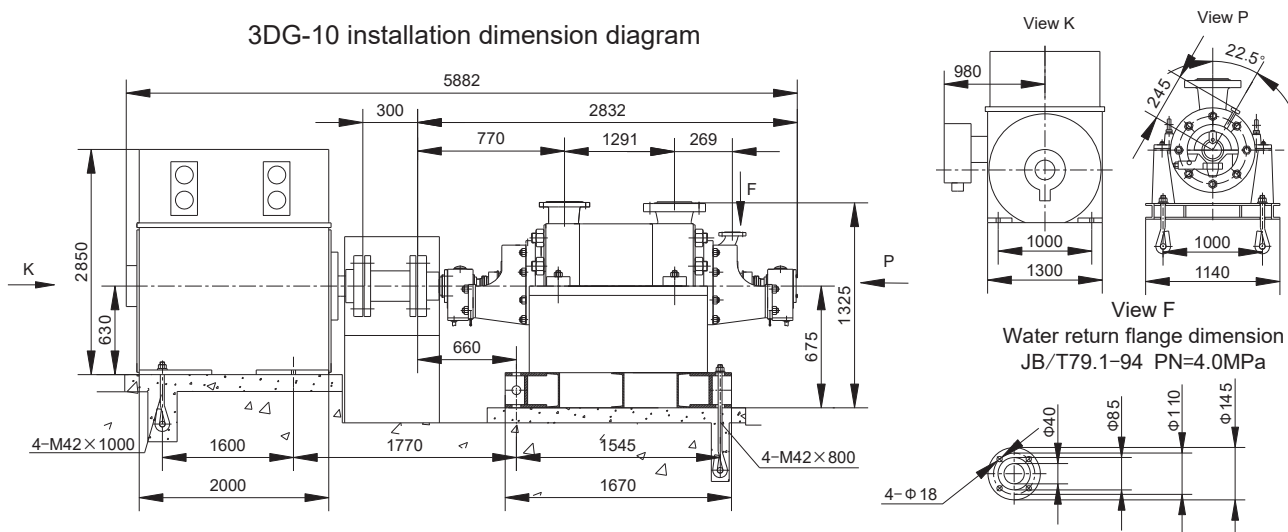
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG85-120×7	4288	2238	748	1040	1168	900	1360	1340	1060	355	630	800	755	Y3556-2-400kW/6kV	2260	2885
DG85-120×8	4504	2324	834	1126	1254	1000	1500	1400	1180	400	710	900	800	Y4001-2-450kW/6kV	2800	3035
DG85-120×9	4590	2410	920	1212	1340									Y4002-2-500kW/6kV	2880	3185
DG85-120×10	4676	2496	1006	1298	1426									Y4003-2-560kW/6kV	2990	3335
DG85-120×11	4762	2582	1092	1384	1512									Y4004-2-630kW/6kV	3090	3485
DG85-120×12	4968	2668	1178	1470	1598	1120	1620	1465	1320	450	800	980	840	Y4501-2-710kW/6kV	3580	3635
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG85-136×7	4418	2238	748	1040	1168	1000	1500	1400	1180	400	710	900	800	Y4001-2-450kW/6kV	2800	2885
DG85-136×8	4504	2324	834	1126	1254									Y4002-2-500kW/6kV	2880	3035
DG85-136×9	4590	2410	920	1212	1340									Y4003-2-560kW/6kV	2990	3185
DG85-136×10	4676	2496	1006	1298	1426									Y4004-2-630kW/6kV	3090	3335
DG85-136×11	4882	2582	1092	1384	1512	1120	1620	1465	1320	450	800	980	840	Y4501-2-710kW/6kV	3580	3485
DG85-136×12	4968	2668	1178	1470	1598									Y4502-2-800kW/6kV	3740	3635
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG120-120×7	4418	2238	748	1040	1168	1000	1500	1400	1180	400	710	900	800	Y4002-2-500kW/6kV	2880	2885
DG120-120×8	4504	2324	834	1126	1254									Y4003-2-560kW/6kV	2990	3035
DG120-120×9	4590	2410	920	1212	1340									Y4004-2-630kW/6kV	3090	3185
DG120-120×10	4796	2496	1006	1298	1426									Y4501-2-710kW/6kV	3580	3335
DG120-120×11	4882	2582	1092	1384	1512	1120	1620	1465	1320	450	800	980	840	Y4502-2-800kW/6kV	3740	3485
DG120-120×12	4968	2668	1178	1470	1598									Y4502-2-800kW/6kV	3740	3635
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	h	h1	b1	b2	b3	Motor Model	Motor Weight (kg)	Pump Weight (kg)
1DG-7	4538	2238	748	1040	1168	1120	1620	1465	1320	450	800	980	840	Y4502-2-800kW/6kV	3740	2885
1DG-8	4624	2324	834	1126	1254									Y4502-2-800kW/6kV	3740	3035
1DG-9	4710	2410	920	1212	1340									Y4504-2-1000kW/6kV	4060	3185
1DG-10	4796	2496	1006	1298	1426									Y4504-2-1000kW/6kV	4060	3335
1DG-11	4882	2582	1092	1384	1512									Y4504-2-1000kW/6kV	4060	3485
1DG-12	4968	2668	1178	1470	1598									Y4504-2-1000kW/6kV	4060	3635

DG180-180, DG220-160, DG250-180, 2DG installation dimension diagram

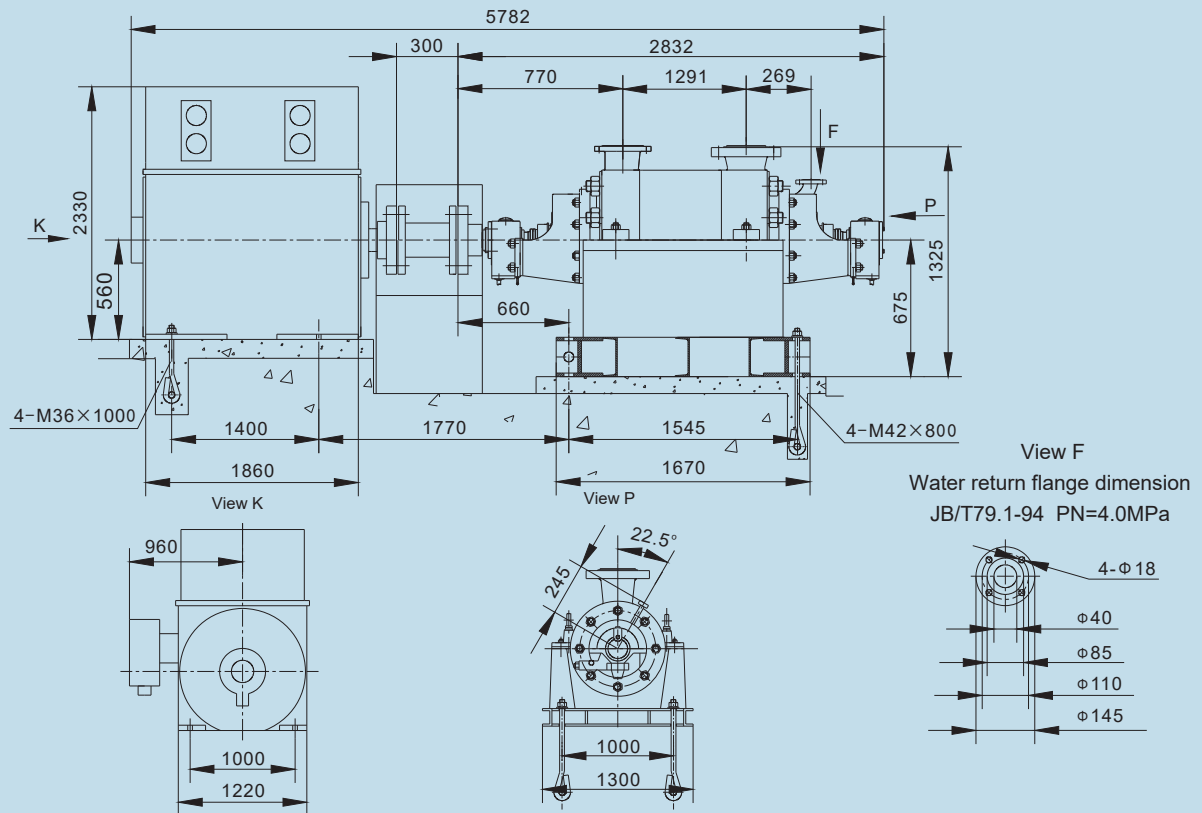


Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	La	Lb	Lc	h	h1	h2	H	b1	b2	b3	B1	B2	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG180-180×10	5268	2618	1150	1520	1650	1250	1730	1645				1510	500			900	1120	900			Y5004-2-1600kW/6kV	5600	4500
DG180-180×11	5373	2723	1255	1625	1755				760	575	94			655	1245				905	1170	Y5004-2-1600kW/6kV	5600	4750
DG180-180×12	5868	2828	1360	1730	1860	1400	1860	1685				1760	560			1000	1220	930			Y5601-2-1800kW/6kV	8750	5000
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	La	Lb	Lc	h	h1	h2	H	b1	b2	b3	B1	B2	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG220-160×7	5137	2487	946	1200	1325																Y5001-2-1120kW/6kV	4700	
DG220-160×8	5252	2602	1061	1315	1440	1250	1730	1730	770	660	269	1510	500	675	1325	900	1120	900	1000	1300	Y5002-2-1250kW/6kV	5000	4400
DG220-160×9	5367	2717	1176	1430	1555																Y5003-2-1400kW/6kV	5300	4600
DG220-160×10	5482	2832	1291	1545	1670																Y5004-2-1600kW/6kV	5600	4800
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	La	Lb	Lc	h	h1	h2	H	b1	b2	b3	B1	B2	Motor Model	Motor Weight (kg)	Pump Weight (kg)
DG250-180×10	5530	2748	1207	1590	1730																Y5601-2-1800kW/6kV	8750	4800
DG250-180×11	5640	2858	1317	1700	1840	1400	1860	1770	770	660	94	1760	560	675	1325	1000	1220	960	1000	1300	Y5602-2-2000kW/6kV	9000	5100
DG250-180×12	5750	2968	1427	1810	1950																Y5603-2-2240kW/6kV	9250	5350
Model and Specification	L	L1	L2	L3	L4	L5	L6	L7	La	Lb	Lc	h	h1	h2	H	b1	b2	b3	B1	B2	Motor Model	Motor Weight (kg)	Pump Weight (kg)
2DG-7	5137	2487	946	1200	1325																Y5002-2-1250kW/6kV	5000	4200
2DG-8	5252	2602	1061	1315	1440	1250	1730	1730	770	660	269	1510	500	675	1325	900	1120	900	1000	1300	Y5002-2-1250kW/6kV	5000	4400
2DG-9	5367	2717	1176	1430	1555																Y5004-2-1600kW/6kV	5600	4600
2DG-10	5482	2832	1291	1545	1670																Y5004-2-1600kW/6kV	5600	4800

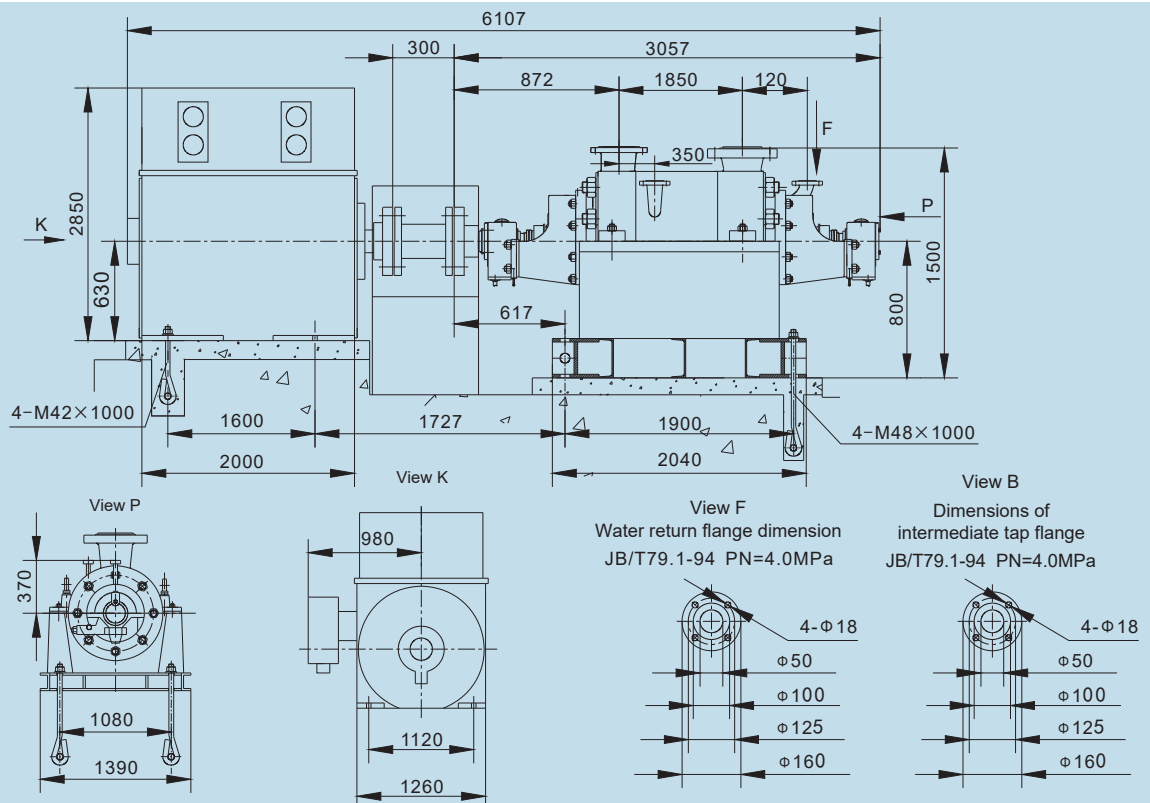
3DG-10 installation dimension diagram



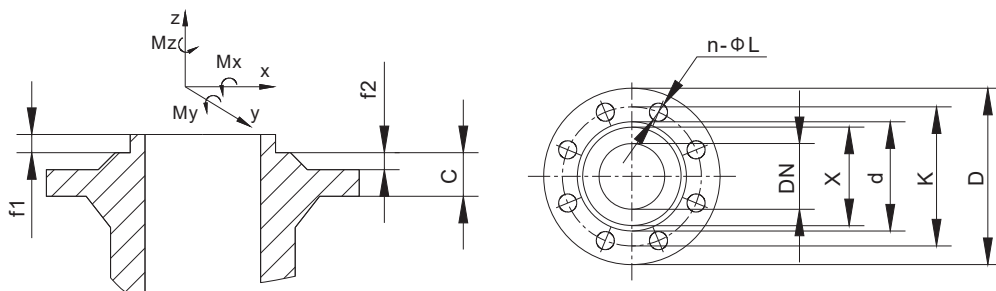
DG270-140B, DG270-140C installation dimension diagram



DG400-180C installation dimension diagram



Standard of inlet and outlet flanges for DG sub-high pressure and high pressure boiler feed pumps

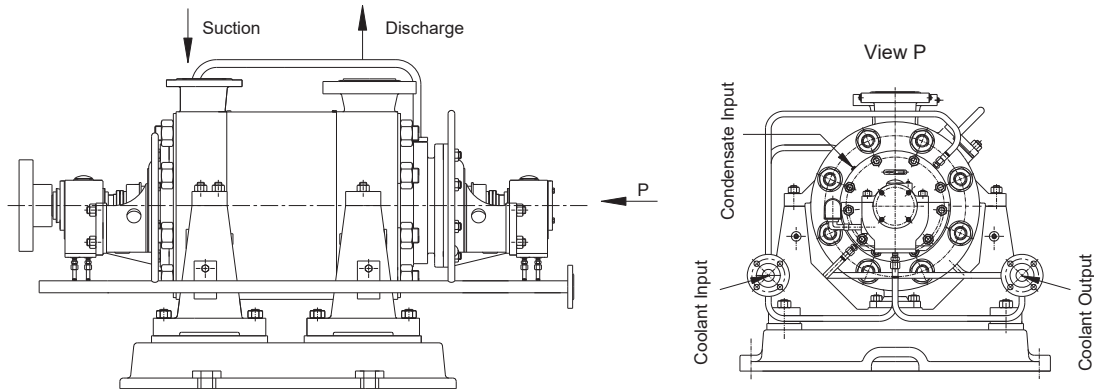


Pump Model	Inlet Flange									Outlet Flange								
	DN	X	d	K	D	f1/f2	C	n-ΦL	Standard and Pressure Grade of Pairing Steel Flange	DN	X	d	K	D	f1/f2	C	n-ΦL	Standard and Pressure Grade of Pairing Steel Flange
DG25-80	80	-	135	160	195	-/3	22	8-Φ18	GB/T9115.1-2000, PN1.6MPa	65	109	138	170	220	4/3	32	8-Φ25	GB/T9115.2-2000, PN10MPa
DG36-80	80	-	135	160	195	-/3	22	8-Φ18	GB/T9115.1-2000, PN1.6MPa	65	109	138	170	220	4/3	32	8-Φ25	GB/T9115.2-2000, PN10MPa
DG45-80	80	-	135	160	195	-/3	22	8-Φ18	GB/T9115.1-2000, PN1.6MPa	65	109	138	170	220	4/3	32	8-Φ25	GB/T9115.2-2000, PN10MPa
DG65-80	100	-	155	180	215	-/3	22	8-Φ18	GB/T9115.1-2000, PN1.6MPa	100	149	172	210	265	4.5/3	22	8-Φ30	GB/T9115.2-2000, PN10MPa
DG85-80	100	-	155	180	215	-/3	22	8-Φ18	GB/T9115.1-2000, PN1.6MPa	100	149	172	210	265	4.5/3	22	8-Φ30	GB/T9115.2-2000, PN10MPa
DG120-80	150	-	218	250	300	-/3	30	8-Φ26	GB/T9115.1-2000, PN2.5MPa	125	175	210	250	310	4.5/3	42	8-Φ34	GB/T9115.2-2000, PN10MPa
DG150-100	200	-	278	310	360	-/3	34	8-Φ26	GB/T9115.1-2000, PN2.5MPa	150	203	250	290	350	4.5/4.5	50.5	12-Φ34	GB/T9115.2-2000, PN10MPa
DG200-100	200	-	278	310	360	-/3	34	8-Φ26	GB/T9115.1-2000, PN2.5MPa	150	203	250	290	350	4.5/4.5	50.5	12-Φ34	GB/T9115.2-2000, PN10MPa
DG280-100	200	-	278	310	360	-/3	34	8-Φ26	GB/T9115.1-2000, PN2.5MPa	150	203	250	290	350	4.5/4.5	50.5	12-Φ34	GB/T9115.2-2000, PN10MPa
DG85-120	150	-	218	250	300	-/3	30	8-Φ26	JB/T82.1-1994 DN150 PN2.5MPa	100	149	-	240	300	6/-	60	8-Φ33	JB/T82.2-1994 DN100 PN16MPa
DG85-136	150	-	218	250	300	-/3	30	8-Φ26	JB/T82.1-1994 DN150 PN2.5MPa	100	149	-	240	300	6/-	60	8-Φ33	JB/T82.2-1994 DN100 PN16MPa
DG120-120	150	-	218	250	300	-/3	30	8-Φ26	JB/T82.1-1994 DN150 PN2.5MPa	100	149	-	240	300	6/-	60	8-Φ33	JB/T82.2-1994 DN100 PN16MPa
1DG	150	-	218	250	300	-/3	30	8-Φ26	JB/T82.1-1994 DN150 PN2.5MPa	100	149	-	240	300	6/-	60	8-Φ33	JB/T82.2-1994 DN100 PN16MPa
DG180-180	150	-	218	250	300	-/3	30	8-Φ26	GB/T9115.1-2000, PN2.5MPa	150	216	-	317.5	395	7/5	83	12-Φ39	GB/T9115.2-2000 PN26MPa
DG220-160	250	-	332	370	425	-/3	36	12-Φ30	JB/T82.1-1994 DN250 PN2.5MPa	175	213	340	394	475	6/3	84	12-Φ48	JB/T82.2-1994 DN175 PN20MPa
DG250-180	200	-	278	310	360	-/3	34	8-Φ26	GB/T9115.1-2000, PN2.5MPa	150	216	-	317.5	395	7/5	83	12-Φ39	GB/T9115.2-2000 PN26MPa
2DG	250	-	332	370	425	-/3	36	12-Φ30	JB/T82.1-1994 DN250 PN2.5MPa	175	213	340	394	475	6/3	84	12-Φ48	JB/T82.2-1994 DN175 PN20MPa
3DG-10	250	-	332	370	425	-/3	36	12-Φ30	JB/T82.1-1994 DN250 PN2.5MPa	175	213	340	394	475	6/3	84	12-Φ48	JB/T82.2-1994 DN175 PN20MPa
DG270-140B	250	-	332	370	425	-/3	36	12-Φ30	JB/T82.1-1994 DN250 PN2.5MPa	175	213	340	394	475	6/3	84	12-Φ48	JB/T82.2-1994 DN175 PN20MPa
DG270-140C	250	-	332	370	425	-/3	36	12-Φ30	JB/T82.1-1994 DN250 PN2.5MPa	175	213	340	394	475	6/3	84	12-Φ48	JB/T82.2-1994 DN175 PN20MPa
DG400-180C	300	-	390	430	485	-/4	40	16-Φ30	JB/T82.1-1994 DN300 PN2.5MPa	225	267	418	483	580	6/3	100	12-Φ58	JB/T82.2-1994 DN225 PN20MPa

Permissible applied forces and torques on flanges of DG sub-high pressure and high pressure boiler feed pumps

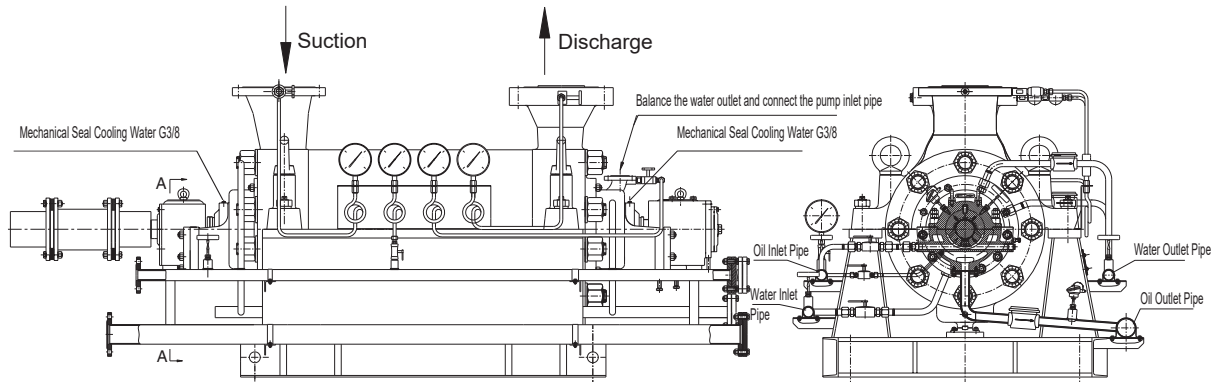
Pump Model	Inlet Force (N)					Inlet Torque (Nm)				Outlet Force (N)					Outlet Torque (Nm)			
	Bore Diameter	Fx	Fy	Fz	Σ F	Mx	My	Mz	Σ M	Bore Diameter	Fx	Fy	Fz	Σ F	Mx	My	Mz	Σ M
DG25-80	80	2250	2050	2500	3950	1600	1150	1300	2350	65	1850	1700	2100	3300	1500	1100	1200	2200
DG36-80	80	2250	2050	2500	3950	1600	1150	1300	2350	65	1850	1700	2100	3300	1500	1100	1200	2200
DG45-80	80	2250	2050	2500	3950	1600	1150	1300	2350	65	1850	1700	2100	3300	1500	1100	1200	2200
DG65-80	100	3000	2700	3350	5250	1700	1250	1450	2600	100	3000	2700	3350	5250	1700	1250	1450	2600
DG85-80	100	3000	2700	3350	5250	1700	1250	1450	2600	100	3000	2700	3350	5250	1700	1250	1450	2600
DG120-80	150	4500	4050	5000	7850	2500	1750	2050	3650	125	3550	3200	3950	6200	2100	1500	1900	3050
DG150-100	200	6000	5400	6700	10450	3250	2300	2650	4800	150	4500	4050	5000	7850	2500	1750	2050	3650
DG200-100	200	6000	5400	6700	10450	3250	2300	2650	4800	150	4500	4050	5000	7850	2500	1750	2050	3650
DG280-100	200	6000	5400	6700	10450	3250	2300	2650	4800	150	4500	4050	5000	7850	2500	1750	2050	3650
DG85-120	150	5000	4500	4050	7850	2500	1750	2050	3650	100	3000	2700	3350	5250	1700	1250	1450	2600
DG85-136	150	5000	4500	4050	7850	2500	1750	2050	3650	100	3000	2700	3350	5250	1700	1250	1450	2600
DG120-120	150	5000	4500	4050	7850	2500	1750	2050	3650	100	3000	2700	3350	5250	1700	1250	1450	2600
1DG	150	5000	4500	4050	7850	2500	1750	2050	3650	100	3000	2700	3350	5250	1700	1250	1450	2600
DG180-180	150	5000	4500	4050	7850	2500	1750	2050	3650	150	5000	4500	4050	7850	2500	1750	2050	3650
DG220-160	250	7450	6750	8350	13050	4450	3150	3650	6550	175	4500	4050	5000	7850	2500	1750	2050	3650
DG250-180	200	6000	5400	6700	10450	3250	2300	2650	4800	150	4500	4050	5000	7850	2500	1750	2050	3650
2DG	250	7450	6750	8350	13050	4450	3150	3650	6550	175	4500	4050	5000	7850	2500	1750	2050	3650
3DG-10	250	7450	6750	8350	13050	4450	3150	3650	6550	175	4500	4050	5000	7850	2500	1750	2050	3650
DG270-140B,C	250	7450	6750	8350	13050	4450	3150	3650	6550	175	4500	4050	5000	7850	2500	1750	2050	3650
DG400-180C	300	8950	8050	10000	15650	6050	4300	4950	8900	225	6000	5400	6700	10450	3250	2300	2650	4800

Requirements of two coolants (Industrial water and condensate) for DG sub-high pressure boiler feed pump



Pump Model	Mechanical seal chamber (Packing chamber). No user's connection is required if the mechanical seal self-flushing structure is applied.					Coolant Manifold Pipe				
	Medium	Interface Dimension (Screw Connection)	Temperature	Pressure(MPa)	Capacity(m³/h)	Medium	Interface Dimension (Screw Connection)	Temperature	Pressure(MPa)	Capacity(m³/h)
DG12-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	2	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	3~5
DG25-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	2	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	3~5
DG36-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	2	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	3~5
DG45-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	2	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	3~5
DG65-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	2	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	3~5
DG85-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	2	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	3~5
DG120-80	Condensate	1/2", one inlet and one outlet	≤30℃	0.7~1.0	3	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	5~7
DG150-100	Condensate	Not connected for packing structure and 3/8" inlet only for mechanical seal structure	≤30℃	0.7~1.0	3	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	5~7
DG200-100	Condensate		≤30℃	0.7~1.0	3	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	5~7
DG280-100	Condensate		≤30℃	0.7~1.0	3	Industrial Water	DN25, PN40	≤30℃	0.2~0.4	5~7

Requirements of two coolants (Industrial water and condensate) for DG high pressure boiler feed pump



Pump Model	Flushing of mechanical seal chamber (No user's connection is required if the mechanical seal self-flushing structure is applied.)					Coolant Manifold Pipe					Sliding Bearing Lubricating Oil Manifold Pipe	
	Medium	Interface Dimension (Screw Connection)	Temperature	Pressure(MPa)	Capacity(m³/h)	Medium	Interface Dimension (Screw Connection)	Temperature	Pressure(MPa)	Capacity(m³/h)	Interface Connection (Flange Connection) for Oil Inlet	Interface Connection (Flange Connection) for Oil Outlet
DG85-120	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	2	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	3~5	DN50, PN40	DN80, PN16
DG85-136	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	2	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	3~5	DN50, PN40	DN80, PN16
DG120-120	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	2	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	3~5	DN50, PN40	DN80, PN16
1DG	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	2	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	3~5	DN50, PN40	DN80, PN16
DG180-180	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
DG220-160	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
DG250-180	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
2DG	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
3DG-10	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
DG270-140B	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
DG270-140C	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16
DG400-180C	Condensate	3/8" inlet only for mechanical seal structure	≤30℃	0.8~1.0	3	Industrial Water	DN50, PN40	≤30℃	0.2~0.4	5~7	DN50, PN40	DN80, PN16

List of two-year spare parts for DG sub-high pressure boiler feed pump

List of two-year spare parts (With one standby pump)									
Pump Model	Rotor Subassembly					Balance Mechanism			
	Shaft, 1 piece	First stage impeller, 1 piece	Impeller, 2 pieces	Final impeller, 1 piece		Balance disc, 2 pieces	Balance spacer sleeve, 2 pieces	Balance plate, 2 pieces	Balance sleeve, 2 pieces
DG12-80	DG45-80-0101	DG12-80-0102	DG12-80-0103	/		DG45-80-0105	DG45-80-0109	DG45-80-0010	DG45-80-0011
DG25-80	DG45-80-0101	DG25-80-0102	DG25-80-0103	/		DG45-80-0105	DG45-80-0109	DG45-80-0010	DG45-80-0011
DG36-80	DG45-80-0101	DG36-80-0102	DG36-80-0103	/		DG45-80-0105	DG45-80-0109	DG45-80-0010	DG45-80-0011
DG45-80	DG45-80-0101	DG45-80-0102	DG45-80-0103	/		DG45-80-0105	DG45-80-0109	DG45-80-0010	DG45-80-0011
DG65-80	DG85-80-0101	DG85-80-0102	DG65-80-0103	DG65-80-0104		DG85-80-0105	DG85-80-0109	DG85-80-0010	DG85-80-0011
DG85-80	DG85-80-0101	DG85-80-0102	DG85-80-0103	DG85-80-0104		DG85-80-0105	DG85-80-0109	DG85-80-0010	DG85-80-0011
DG120-80	DG120-80-0101	DG120-80-0102	DG120-80-0103	/		DG120-80-0105	DG120-80-0109	DG120-80-0010	
DG150-100	DG150-100-0101	DG150-100-0102	DG150-100-0103	DG150-100-0104		DG150-100-0105	DG150-100-0109	DG150-100-0010	/
DG200-100	DG200-100-0101	DG200-100-0102	DG200-100-0103	DG200-100-0104		DG150-100-0105	DG150-100-0109	DG150-100-0010	
DG280-100	DG200-100-0101	DG280-100-0102	DG280-100-0103	DG280-100-0104					
Pump Model	Shaft Seal Location					Seal Rings			
	Shaft sleeve, 2 pieces	Packing ring, 2 pieces	Packing, 20 pieces	Mechanical seal, 2 sets	Bearing, 2 pieces	Front segment seal ring, 1 piece	Intermediate segment seal ring, N-1 pieces	Guide vane sleeve, N-1 pieces	
DG12-80	DG45-80-0107	B2102-70-75	12X12X280	H75-70	NU312E	DG45-80-0012	DG45-80-0013	DG45-80-0014	
DG25-80	DG45-80-0107	B2102-70-75	12X12X280	H75-70	NU312E	DG45-80-0012	DG45-80-0013	DG45-80-0014	
DG36-80	DG45-80-0107	B2102-70-75	12X12X280	H75-70	NU312E	DG45-80-0012	DG45-80-0013	DG45-80-0014	
DG45-80	DG45-80-0107	B2102-70-75	12X12X280	H75-70	NU312E	DG45-80-0012	DG45-80-0013	DG45-80-0014	
DG65-80	DG85-80-0107	B2102-70-80	14X14X320	H75-75	B1207-72-60	DG85-80-0012	DG85-80-0013	DG85-80-0014	
DG85-80	DG85-80-0107	B2102-70-80	14X14X320	H75-75	B1207-72-60	DG85-80-0012	DG85-80-0013	DG85-80-0014	
DG120-80	DG120-80-0107	B2102-70-100	14X14X400	H75-95	B1207-72-70	DG120-80-0012	DG120-80-0013	DG120-80-0014	
DG150-100	DG150-100-0106	B2102-70-110	16X16X410	H75-100	B1207-72-80	DG150-100-0012	DG150-100-0013	DG150-100-0014	
DG200-100						DG200-100-0012	DG200-100-0013		
DG280-100									
Pump Model	O-ring Set								
	Intermediate segment seal, N pieces	Cooler seal, 2 piece	Water cooling chamber cover seal, 1 piece	Water cooling chamber cover seal, 2 pieces	Balance ring seal, 1 piece	Mechanical seal gland seal, 2 pieces	Shaft sleeve seal, 2 pieces	Bearing gland seal, 2 pieces	
DG12-80	315X5.3	280X5.3	280X5.3(2 pieces)	185X3.55	132X3.55	100X3.55	60X2.65	128X3.55	
DG25-80	315X5.3	280X5.3	280X5.3(2 pieces)	185X3.55	132X3.55	100X3.55	60X2.65	128X3.55	
DG36-80	315X5.3	280X5.3	280X5.3(2 pieces)	185X3.55	132X3.55	100X3.55	60X2.65	128X3.55	
DG45-80	315X5.3	280X5.3	280X5.3(2 pieces)	185X3.55	132X3.55	100X3.55	60X2.65	128X3.55	
DG65-80	350X5.7	260X5.7	260X5.7	120X5.7	145X5.7	110X3.55	65X3.1		
DG85-80	350X5.7	260X5.7	260X5.7	120X5.7	145X5.7	110X3.55	65X3.1		
DG120-80	405X5.3	290X5.3	290X5.3	145X5.3	110X2.65	130X3.55	75X2.65		
DG150-100	425X5	335X5.3	/	160X5.3	112X2.65	140X2.65	85X2.65		
DG200-100									
DG280-100									

List of two-year spare parts for DG high pressure boiler feed pump

List of two-year spare parts (For single pump)										
Pump Model	Rotor Subassembly					Balance Mechanism		Seal Rings		
	Shaft, 1 piece	First stage impeller, 1 piece	Impeller, 2 pieces	Final impeller, 1 piece		Balance disc, 2 pieces	Balance plate, 2 pieces	Front segment seal ring, 1 piece	Intermediate segment seal ring, N-1 pieces	Guide vane sleeve, N-1 pieces
DG85-120	1DG-0101	DG85-120-0102	DG85-120-0103	DG85-120-0104		1DG-0105	1DG-0010	1DG-0012	1DG-0013	1DG-0014
DG85-136	1DG-0101	DG85-120-0102	DG85-120-0103	DG85-120-0104				1DG-0012	1DG-0013	1DG-0014
DG120-120	1DG-0101	1DG-0102	DG120-120-0103	DG120-120-0104				1DG-0012	1DG-0013	1DG-0014
1DG	1DG-0101	1DG-0102	1DG-0103	/				1DG-0012	1DG-0013	1DG-0014
DG180-180	DG180-180-0101	DG180-180-0102	DG180-180-0103	DG180-180-0104		DG270-140C-0105	DG270-140C-0010	DG180-180-0012	DG180-180-0013	DG180-180-0014
DG220-160	DG270-140C-0101	DG220-160-0102	DG220-160-0103	DG220-160-0104				DG270-140C-0012	DG270-140C-0013	DG270-140C-0014
DG250-180	DG250-180-0101	DG250-180-0102	DG250-180-0103	DG250-180-0104				DG250-180-0012	DG250-180-0013	DG250-180-0014
2DG	DG270-140C-0101	2DG-0102	2DG-0103	/				DG270-140C-0012	DG270-140C-0013	DG270-140C-0014
3DG-10	DG270-140C-0101	3DG-0102	3DG-0103	3DG-0104		DG270-140C-0105	DG270-140C-0010	DG270-140C-0012	DG270-140C-0013	DG270-140C-0014
DG270-140B	DG270-140C-0101	DG270-140B-0102	DG270-140B-0103	DG270-140B-0104				DG270-140C-0012	DG270-140C-0013	DG270-140C-0014
DG270-140C	DG270-140C-0101	DG270-140C-0102	DG270-140C-0103	DG270-140C-0104				DG270-140C-0012	DG270-140C-0013	DG270-140C-0014
DG400-180C	DG400-180C-0101	DG400-180C-0102	DG400-180C-0103	DG400-180C-0104		DG400-180C-0105	DG400-180C-0010	DG400-180C-0012	DG400-180C-0013	DG400-180C-0014
Pump Model	Shaft Seal Location					Sliding Bearing Location				
	Bushing, 2 pieces	Packing ring, 2 pieces	Packing, 20 pieces	Mechanical seal, 2 sets		Bushing joint part (Left), 1 set	Bushing joint part (Right), 1 set	Thrust block	Thrust bearing block	
DG85-120	1DG-0107	1DG-0021	16X16X410	HS11/117		1DG-0200-1-03	1DG-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG220-160	1DG-0107	1DG-0021	16X16X410	HS11/117		1DG-0200-1-03	1DG-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG120-120	1DG-0107	1DG-0021	16X16X410	HS11/117		1DG-0200-1-03	1DG-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
1DG	1DG-0107	1DG-0021	16X16X410	HS11/117		1DG-0200-1-03	1DG-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG180-180	/	/	/	SP-70597A-1(left/right)		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG85-136	DG270-140C-0107	DG270-140C-0021	16X16X440	HS11/117		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG250-180	/	/	/	SP-70597A-2(left/right)		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
2DG	DG270-140C-0107	DG270-140C-0021	16X16X440	HS11/117		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
3DG-10	DG270-140C-0107	DG270-140C-0021	16X16X440	HS11/117		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG270-140B	DG270-140C-0107	DG270-140C-0021	16X16X440	HS11/117		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG270-140C	DG270-140C-0107	DG270-140C-0021	16X16X440	HS11/117		DG270-140C-0200-1-03	DG270-140C-0200-2-03	DG270-140C-0200-2-05	DG270-140C-0200-2-06	
DG400-180C	/	/	/	HS11/142		DG400-180C-0200-1-03	DG400-180C-0200-2-03	DG400-180C-0200-2-05	DG400-180C-0200-2-06	
Pump Model	O-ring Set									
	Intermediate segment seal, N pieces	Bearing carrier seal A	Bearing carrier seal B	Water cooling chamber cover seal, 2 pieces	Water cooling chamber cover seal, 2 pieces	Balance plate seal, 1 piece	Balance plate seal, 1 piece	Mechanical seal gland seal, 2 pieces	Shaft sleeve seal, 2 pieces	
DG85-120	385X5.3	340X5.3, 2 pieces	325X5.3, 1 piece	180X3.55	170X3.55	132X5.3	85X3.55	180X3.55	85X3.55	
DG85-136	385X5.3	340X5.3, 2 pieces	325X5.3, 1 piece	180X3.55	170X3.55	132X5.3	85X3.55	180X3.55	85X3.55	
DG120-120	385X5.3	340X5.3, 2 pieces	325X5.3, 1 piece	180X3.55	170X3.55	132X5.3	85X3.55	180X3.55	85X3.55	
1DG	385X5.3	340X5.3, 2 pieces	325X5.3, 1 piece	180X3.55	170X3.55	132X5.3	85X3.55	180X3.55	85X3.55	
DG180-180	485X5.3	360X5.3	350X5.3	180X3.55	170X5.3	125X2.65	90X3.55	/	/	
DG220-160	470X5.3	355X5.3, 2 pieces	345X5.3, 1 piece	180X3.55	170X5.3	125X2.65	90X3.55	180X3.55	90X3.55	
DG250-180	485X5.3	360X5.3	350X5.3	180X3.55	170X5.3	125X2.65	90X3.55	/	/	
2DG	470X5.3	355X5.3, 2 pieces	345X5.3, 1 piece	180X3.55	170X5.3	125X2.65	90X3.55	180X3.55	90X3.55	
3DG-10	470X5.3	355X5.3, 2 pieces	345X5.3, 2 pieces	180X3.55	170X5.3	125X2.65	90X3.55	180X3.55	90X3.55	
DG270-140B	470X5.3	355X5.3, 2 pieces	345X5.3, 1 piece	180X3.55	170X5.3	125X2.65	90X3.55	180X3.55	90X3.55	
DG270-140C	470X5.3	355X5.3, 2 pieces	345X5.3, 1 piece	180X3.55	170X5.3	125X2.65	90X3.55	180X3.55	90X3.55	
DG400-180C	530X5.3	355X5.3, 2 pieces	355X5.3, 2 pieces	240X3.55	170X5.3	180X5.3	115X5.3	190X5.3	115X3.55	

Supply list of DG high pressure boiler feed pump (At user's choice depending on own need)					
No.	Name	Model	Quantity	Device Location	Remark
1	Pump head	DG high pressure boiler feed pump	1		
2	Drive unit	YKK motor, turbine	1	Drive end	Drive unit mode to be provided by the user
3	Hydraulic coupling	Various manufacturers and models	1	Between pump and motor	Select depending on power and speed
4	Y filter	GL41H-25 DN (150、250、300)	1	Feed pump inlet	Bore diameter in parentheses
5	Differential pressure switch	Various manufacturers and models	1	Upstream and downstream flanges of inlet filter	1.6MPa, 160°C (Alarm at 0.06MPa differential pressure of set value)
6	Air bleeding check valve	H48H-160 DN100	1	Outlet minimum flow protection of feed pump	DG85-120、DG85-136、DG120-120、1DG
		H48H-260 DN150			DG180-180、DG250-180
		H48H-200 DN175			DG220-160、2DG、3DG、DG270-140B、C
		H48H-200 DN225			DG400-180C
7	Thin oil station	XYZ-63G	1	Pump set side face	
8	Inlet counter flange	DN150 PN2.5MPa	1	Feed pump inlet (With metal wound washer)	DG85-120、DG85-136、DG120-120、1DG、DG180-180
		DN200 PN2.5MPa			DG250-180
		DN250 PN2.5MPa			DG220-160、2DG、3DG、DG270-140B、C
		DN300 PN2.5MPa			DG400-180C
9	Outlet counter flange	DN100 PN16MPa	1	Feed pump outlet (With metal toothed washer)	DG85-120、DG85-136、DG120-120、1DG
		DN150 PN26MPa			DG180-180、DG250-180
		DN175 PN20MPa			DG220-160、2DG、3DG、DG270-140B、C
		DN225 PN20MPa			DG400-180C
10	Vibration measurement device	Various manufacturers and models	2	Left and right bearing bodies	Including vibration sensor (M10X1.5), 2 pieces
11	Reverse speed detection protector	Various manufacturers and models	1	High pressure end bearing body	Installation dimension at M16*1 and screw length at 100MM
12	Metal wound washer	D1222 DN150-PN25	1	Feed pump inlet	JB/T90-94
		D1222 DN200-PN25			
		D1222 DN250-PN25			
		D1222 DN300-PN25			
13	Metal toothed washer	100-160, 0Cr19Ni9	1	Feed pump outlet	JB/T88-94
		150-260, 0Cr19Ni9			
		175-200, 0Cr19Ni9			
		225-200, 0Cr19Ni9			
14	Coiled pipe cooler	QLRJ250-20-12-00, FLRJ250-20-12-00	2	Pump side face	For coolant mechanical seal self-flushing
List of pressure and temperature detectors (Attached in pump)					
No.	Name	Model	Quantity	Device Location	Application
1	Pressure gauge	YN-150 or YN-100 (0~1.6MPa)	1	Water inlet segment flange	Water inlet pressure detection
2	Pressure gauge	YN-150 or YN-100 (0~2.5MPa)	1	Water outlet segment flange	Water outlet pressure detection
3	Pressure gauge	YN-150 or YN-100 (0~1.0MPa)	1	Balance water return pipe flange	Balance water pressure detection
4	Pressure gauge	YN-150 or YN-100 (0~0.25MPa)	1	Lubricating oil inlet manifold pipe	Lubricating oil pressure detection
5	Pressure gauge	YN-150 or YN-100 (0~0.6MPa)	1	Coolant outlet manifold pipe	Coolant pressure detection
6	Platinum thermistor	WZPK2-336A, 0~150°C, Pt100, Φ6x75, R3/8	3	Left and right bearing bodies	Temperature detection for left and right sliding bearings and thrust bearings
7	Bimetal thermometer	WSS485, 0~150°C, Φ8x75, R3/8	2	Left and right bearing bodies	Local temperature display for left and right bearings
8	Platinum thermistor	WZPK2-336A, 0~150°C, Pt100, Φ6x75, R3/8	2	Oil outlet pipe of left and right bearings	Oil outlet temperature detection for left and right sliding bearings
9	Oil flow indicator	YZQ-32, G1-1/4	2	Oil outlet pipe of left and right bearing bodies	Flow indicator
10	Water flow indicator	YZQ-20, G3/4	2	Coolant outlet pipe of bearing brackets	Flow indicator

Leading the Rise of Chinese Pump Industry



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