

用心服务 · 品质卓越



FYH型长轴液下泵 FYH TYPE LONG-SHAFT UNDER-WATER PUMPS

使用说明书 Working Instruction

概述

FYH系列长轴液下立式泵。是根据市场需求，自主设计开发的新型、节能环保产品，用于输送中性或有腐蚀性的清洁液体。特别适用于：污水处理、水泥厂、发电厂、石油化工等行业。

SUMMARY

FYH series long-shaft submersible pump belongs to a vertical single-stage, single-suction centrifugal pump, is a self-designed and developed new type and energy saving environmental protection product, is used to convey the neutral or corrosive clean liquid, especially suitable for sewage treatment, cement factory, electricity works, petrochemical industry etc.

执行标准

-ISO2858轴向吸入离心泵(16bar级)-标记、额定性能点和尺寸

-GB5656-94单级单吸化工离心泵技术条件

-GB/T3214-91水泵流量的测定方法

-GB/T3216-2005回转动力泵、水力性能验收试验

FYH系列长轴液下泵主要执行ISO2858标准中标记和额定性能点。

EXECUTIVE STANDARD

-ISO2858 end-suction centrifugal pumps (rating 16 bar)-designation, nominal duty point and dimensions.

-GB5656-94 technical specifications for single-stage, single-suction chemical centrifugal pumps.

-GB/T3214-91 methods for measurement of capacity of pump.

-GB/T3216-2005 rotodynamic pumps-Hydraulic performance acceptance tests

FYH series long-shaft submersible pump mainly executes the designation nominal duty point in ISO2858 standard.

型号说明 MODEL MEANING

FYH 40 - 160

叶轮名义直径 Impeller nominal diameter

出口直径 Outlet diameter

系列代号 Series code

性能参数 PERFORMANCE PARAMETER

流量(Flow)Q: 3~400m³/h

扬程(Delivery lift)H: 3~80m

工作温度(Working temperature)T: -20℃~+100℃

加装特殊结构温度可达200℃: If added with special structure, the working temperature can be 200 degree.

液下深度可随客户来定制，最高深度≤6m (The submerged depth can be designed according to customers' demand. And maximum depth is less than 6 meters.

冲洗方式

引入清洁的液体冲洗滑动轴承，保证了泵的安全运转。对于不同的介质，有两种方式可以选择。

自冲洗

当泵送介质为清洁介质时，采用此方式进行冲洗。从泵出口法兰引一管路，使冲洗液流向各个滑动轴承，润滑了滑动轴承，带走摩擦副产生的热量，起到降温的作用。

外冲洗

当泵送介质为内含较小颗粒介质时，采用此方式进行冲洗。从外界接一管路，引入清洁的冲洗液冲洗各个滑动轴承，润滑了滑动轴承，带走摩擦副产生的热量，起到降温的作用。同时，避免固体颗粒进入摩擦副中。

WASHING METHOD

Introduce the clean liquid washing plain bearing to guarantee the pump rotate safely. Two methods can be selected to the different medium.

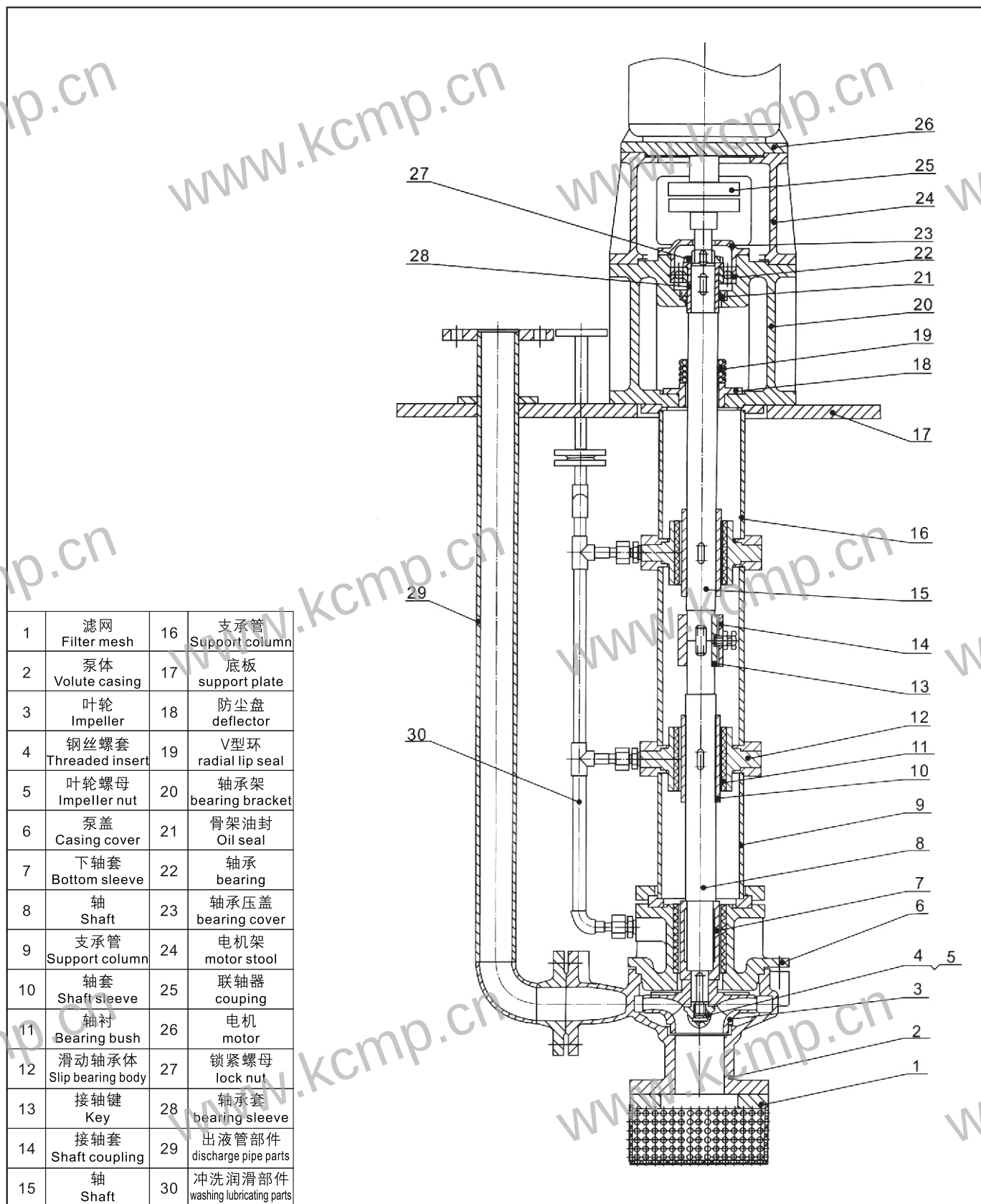
Self-washing

When the medium conveyed by the pump is clean, adopt this method to carry out the washing. Lead a pipeline from the pump outlet flange, make the washing liquid flow to various plain bearings, lubricate the plain bearing, bring the heat produced by friction and play a temperature dropping function.

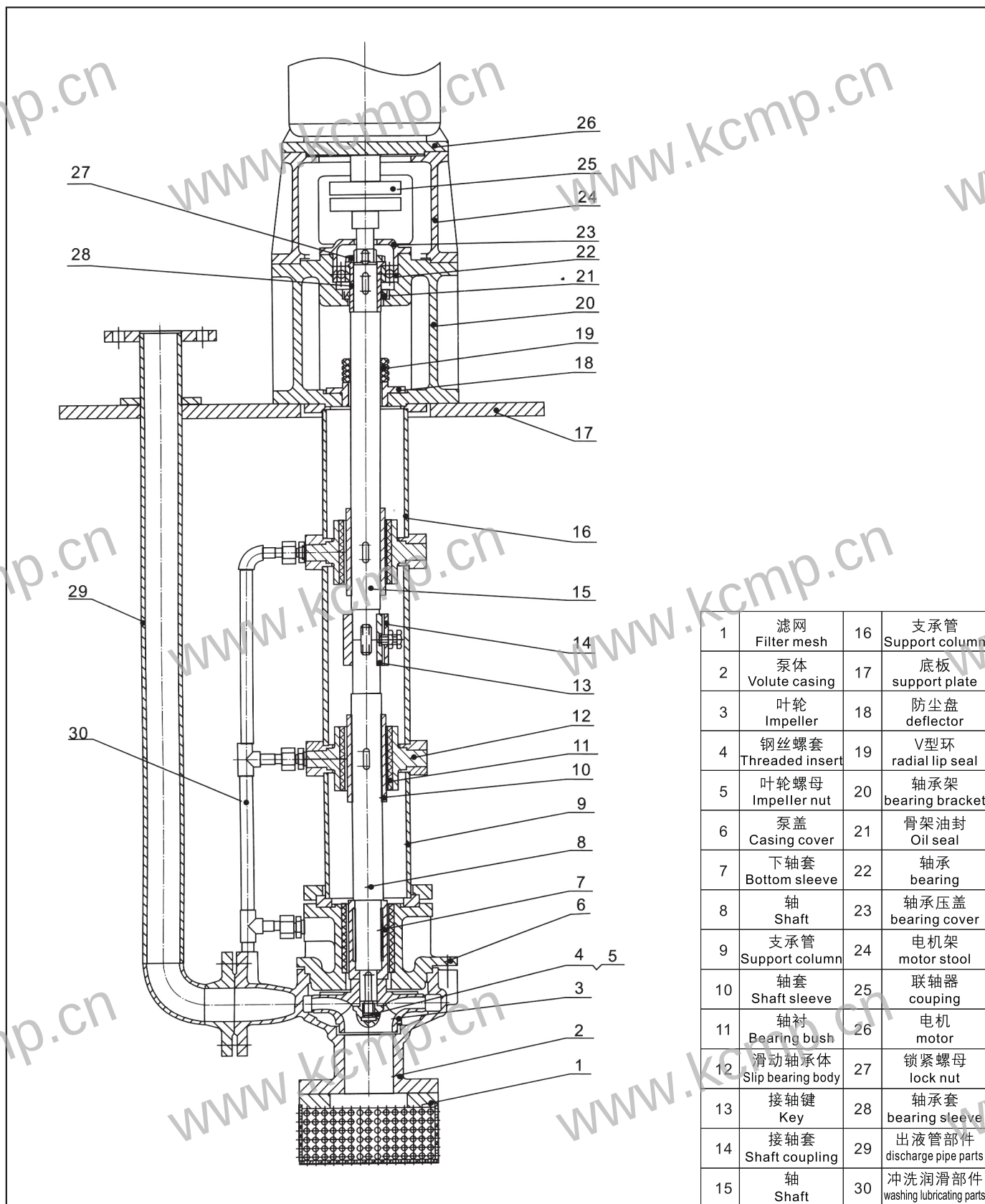
Out-washing

When the medium conveyed by the pump contains the small grain, adopt this method to carry out the washing, Connect a pipeline from the exterior, lead the clean washing liquid to wash the various plain bearings, lubricate the plain bearing, bring the heat produced by friction set, play a temperature dropping function, meanwhile, avoid the solid grain entering the friction set.

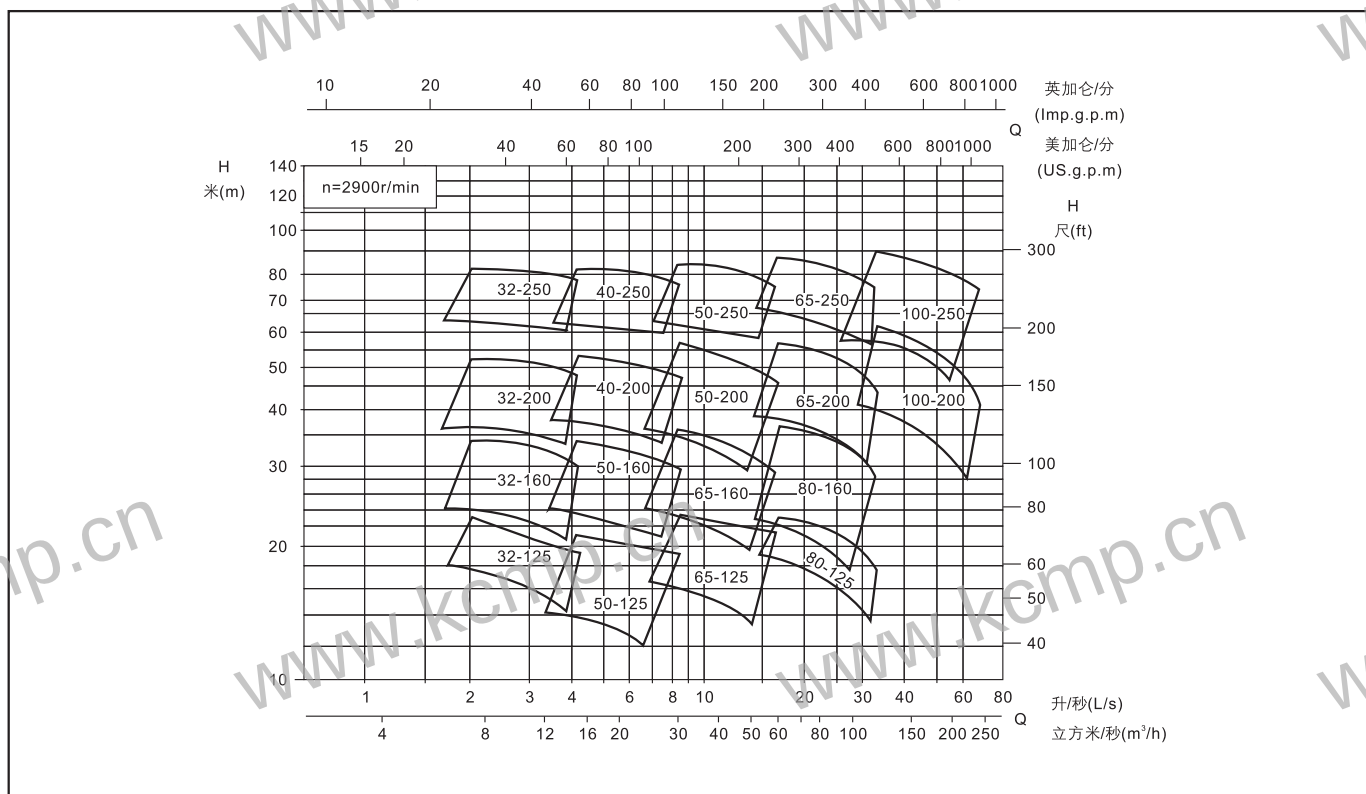
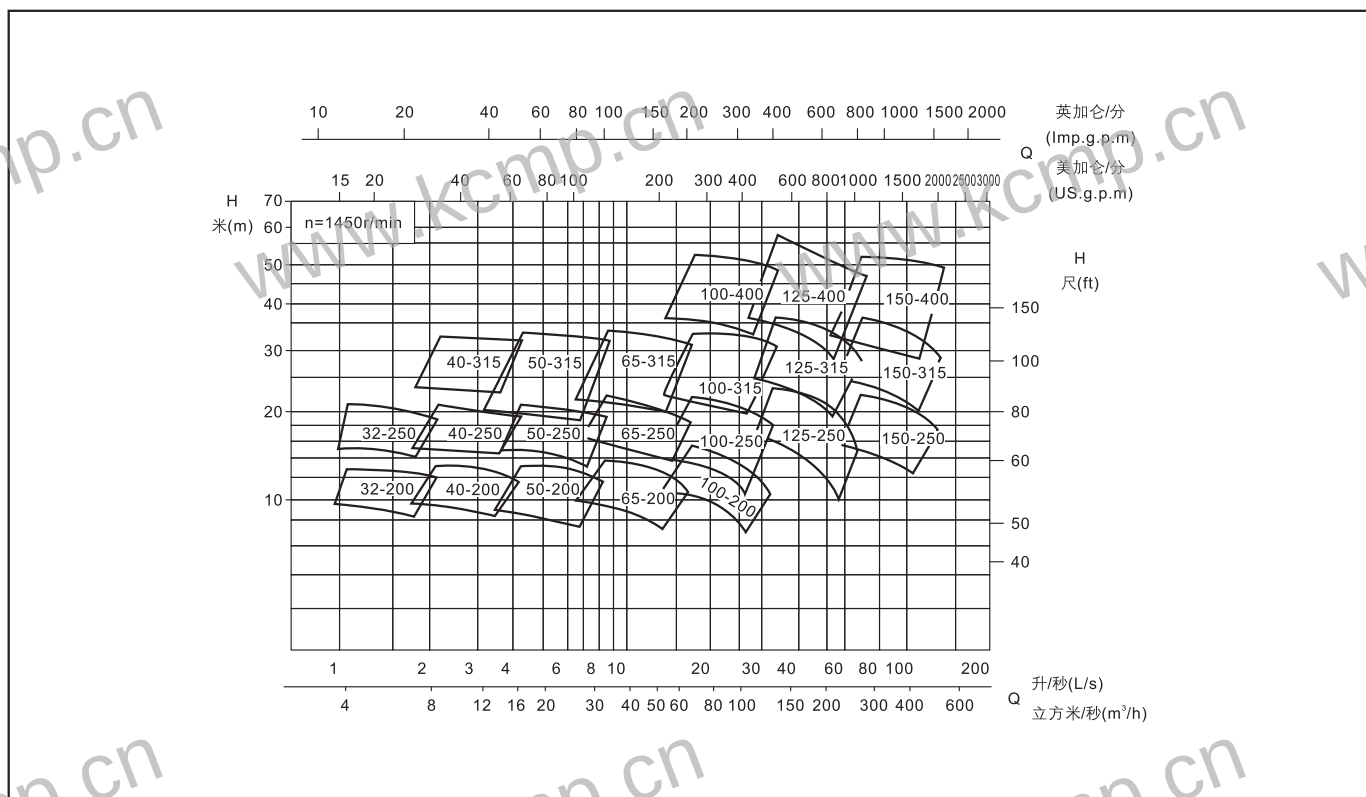
FYH型外冲洗结构示意图 FYH OUT-WASHING STRUCTURE DIAGRAM



FYH型自冲洗结构示意图 FYH SELF-WASHING STRUCTURE DIAGRAM



FYH型泵型谱图 FYH PUMP DIAGRAM



性能表 PERFORMANCE TABLE

型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0	比重(Specific gravity)1.35	比重(Specific gravity)1.85			
		电机功率及型号 Motor power and type								
		(m³/h)	(L/s)		kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size
FYH32-125	2900	7.5 12.5 15	2.08 3.47 4.17	23 20 18	2.2	90L-2	3.0	100L-2	4.0	112M-2
	1450	3.75 6.3 7.5	1.04 1.74 2.08	5.75 5.0 4.5	0.55	801-4	0.55	801-4	0.75	802-4
FYH32-125A	2900	6.8 11.3 13.6	1.89 3.14 3.78	18.8 16.4 14.7	1.5	90S-2	2.2	90L-2	3.0	100L-2
	1450	3.4 5.7 6.8	0.94 1.58 1.89	4.7 4.1 3.7	0.55	801-4	0.55	801-4	0.55	801-4
FYH32-160	2900	7.5 12.5 15	2.08 3.47 4.17	34.5 32 30	4.0	112M-2	5.5	132S1-2	7.5	132S2-2
	1450	3.75 6.3 7.5	1.04 1.74 2.08	8.6 8.0 7.5	0.75	802-4	0.75	802-4	1.1	90S-4
FYH32-160A	2900	6.8 11.3 13.6	1.89 3.14 3.78	28.5 26.4 24.8	3.0	100L-2	4.0	112M-2	5.5	132S1-2
	1450	3.4 5.7 6.8	0.94 1.58 1.89	7.1 6.6 6.2	0.55	801-4	0.75	802.4	1.1	90S-4
FYH32-160B	2900	6.3 10.5 12.6	1.75 2.92 3.5	24 22 21	2.2	90L-2	3.0	100L-2	4.0	112M-2
	1450	3.15 5.25 6.3	0.88 1.46 1.75	6.0 5.5 5.0	0.55	801-4	0.55	801-4	0.75	802.4
FYH32-200	2900	7.5 12.5 15.0	2.08 3.47 4.17	51.8 50 48	7.5	132S2-2	11	160M1-2	11	160M1-2
	1450	3.75 6.3 7.5	1.04 1.74 2.08	12.9 12.5 12.0	1.1	90S-4	1.5	90L-4	2.2	100L1-2
FYH32-200A	2900	6.8 11.3 13.6	1.89 3.14 3.78	42.5 41 39.5	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	1450	3.4 5.7 6.8	0.94 1.58 1.89	10.6 10.3 9.9	1.1	90S-4	1.5	90L.4	1.5	90L-4
FYH32-200B	2900	6.3 10.5 12.6	1.75 2.92 3.5	37 35.5 34	4.0	112M-2	5.5	132S1-2	7.5	132S2-2
	1450	3.15 5.25 6.3	0.88 1.46 1.75	9.5 9.0 8.5	0.75	802-4	1.1	90S-4	1.5	90L-4
FYH32-250	2900	7.5 12.5 15.0	2.08 3.47 4.17	82 80 78.5	11	160M1-2	15	160M2-2	22	180M-2
	1450	3.75 6.3 7.5	1.04 1.74 2.08	20.5 20 19.6	2.2	100L1-4	3.0	100L2-4	4.0	112M-4
FYH32-250A	2900	7.0 11.7 14.0	1.94 3.25 3.89	72 70 68.5	11	160M1-2	15	160M2-2	18.5	160L-2
	1450	3.5 5.9 7.0	0.97 1.64 1.94	18 17.5 17	1.5	90L-4	2.2	100L1-4	3.0	100L2-4
FYH32-250B	2900	6.6 11 13	1.83 3.06 3.61	63.5 62 61	11	160M1-2	11	160M1-2	15	160M2-2
	1450	3.3 5.5 6.5	0.92 1.53 1.81	15.9 15.5 15.2	1.5	90L-4	2.2	100L1-4	3.0	100L2-4
FYH50-125	2900	15 25 30	4.17 6.94 8.33	21.3 20 18.6	3.0	100L-2	4.0	112M-2	5.5	132S1-2
	1450	7.5 12.5 15.0	2.08 3.47 4.17	5.4 5.0 4.5	0.55	801-4	0.75	802-4	1.1	90S-4

性能表 PERFORMANCE TABLE

型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0		比重(Specific gravity)1.35		比重(Specific gravity)1.85	
		(m³/h)	(L/s)		电机功率及型号 Motor power and type					
					kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size
FYH50-125A	2900	13.6 22.7 27.3	3.78 6.31 7.58	17.6 16.5 15.4	3.0	100L-2	4.0	112M-2	5.5	132S1-2
	1450	6.8 11.3 13.6	1.89 3.14 3.78	4.4 4.1 3.8	0.55	801-4	0.75	802-4	0.75	802-4
FYH50-125B	2900	12 20 24	3.33 5.56 6.67	14 13 12	2.2	90L-2	3.0	100L-2	4.0	112M-2
	1450	6.0 10 12	1.67 2.78 3.33	3.5 3.2 3.0	0.55	801-4	0.55	801-4	0.75	802-4
FYH50-160	2900	15 25 30	4.17 6.94 8.33	34.2 32 30	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	1450	7.5 12.5 15.0	2.08 3.47 4.17	8.55 8.0 7.5	1.1	90S-4	1.5	90L-4	1.5	90L-4
FYH50-160A	2900	13.6 22.7 27.3	3.78 6.31 7.58	28.4 26.5 24.8	4.0	112M-2	5.5	132S1-2	7.5	132S2-2
	1450	6.8 11.3 13.6	1.89 3.14 3.78	7.1 6.6 6.2	0.75	802-4	1.1	90S-4	1.5	90L-4
FYH50-160B	2900	12.6 21.0 25.2	3.5 5.83 7.0	24 22.5 21	4.0	112M-2	5.5	132S1-2	7.5	132S2-2
	1450	6.3 10.5 12.6	1.75 2.92 3.5	6.0 5.6 5.2	0.55	801-4	0.75	802-4	1.1	90S-4
FYH40-200	2900	15 25 30	4.17 6.94 8.33	53.2 50 47.6	11	160M1-2	11	160M1-2	15	160M2-2
	1450	7.5 12.5 15.0	2.08 3.47 4.17	13.3 12.5 11.9	1.5	90L-4	2.2	100L1-2	3.0	100L2-2
FYH40-200A	2900	14 23.4 28	3.89 6.5 7.78	46.5 44 42	7.5	132S2-2	11	160M1-2	15	160M2-2
	1450	7.0 11.7 14.0	1.94 3.25 3.89	11.6 11 10.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4
FYH40-200B	2900	12.6 21.0 25.2	3.5 5.83 7.0	38 36 34	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	1450	6.3 10.5 12.6	1.75 2.92 3.5	9.5 9.0 8.5	1.1	90S-4	1.1	90S-4	1.5	90L-4
FYH40-250	2900	15 25 30	4.17 6.94 8.33	81.2 80 78.4	15	160M2-2	22	180M-2	30	200L1-2
	1450	7.5 12.5 15.0	2.08 3.47 4.17	20.3 20 19.6	3.0	100L2-4	4.0	112M-4	5.5	132S-4
FYH40-250A	2900	14 23.4 28	3.89 6.5 7.78	71 70 68.5	15	160M2-2	18.5	160L-2	30	200L1-2
	1450	7.0 11.7 14	1.94 3.25 3.89	17.8 17.5 17.2	2.2	100L1-4	3.0	100L2-4	4.0	112M-4
FYH40-250B	2900	13.2 22 26.4	3.67 6.11 7.33	62.8 61.8 60	11	160M1-2	15	160M2-2	22	180M-2
	1450	6.6 11 13.2	1.83 3.06 3.67	15.7 15.5 14.5	2.2	100L1-4	3.0	100L2-4	4.0	112M-4
FYH40-315	1450	7.5 12.5 15.0	2.08 3.47 4.17	32.4 32.0 31.7	5.5	132S-4	7.5	132M-4	7.5	132M-4

性能表 PERFORMANCE TABLE

型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0	比重(Specific gravity)1.35	比重(Specific gravity)1.85			
		(m³/h)	(L/s)		电机功率及型号 Motor power and type					
					kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size
FYH40-315A	1450	7.0 11.7 14.0	1.94 3.25 3.89	27.9 27.4 27.1	4.0	112M-4	5.5	132S-4	7.5	132M-4
FYH40-315B	1450	6.6 11 13.2	1.83 3.06 3.67	24.5 24.1 24	3.0	100L2-4	4.0	112M-4	5.5	132S-4
FYH40-315C	2900	12.3 20.5 24.6	3.42 5.69 6.83	85.3 84.1 83	18.5	160L-2	22	180M-2	30	200L1-2
	1450	6.2 10.3 12.3	1.72 2.86 3.42	21.3 21 20.8	3.0	100L2-4	4.0	112M-4	5.5	132S-4
FYH65-125	2900	30 50 60	8.33 13.9 16.7	23.2 20 17.6	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	1450	15 25 30	4.17 6.94 8.33	5.8 5.0 4.4	1.1	90S-4	1.5	90L-4	1.5	90L-4
FYH65-125A	2900	27.2 45.3 54.4	7.56 12.58 15.11	19.1 16.5 14.5	4.0	112M-2	5.5	132S1-2	7.5	132S2-2
	1450	13.6 22.6 27.2	3.78 6.28 7.56	4.8 4.1 3.6	0.75	802-4	1.1	90S-4	1.5	90L-4
FYH65-125B	2900	25 42 50	6.94 11.66 13.88	16.5 14.5 12.5	4.0	112M	5.5	132S1-2	7.5	132S2-2
	1450	12.5 21 25	3.47 5.83 6.94	4.1 3.6 3.1	0.75	802-4	1.1	90S-4	1.5	90L-4
FYH65-160	2900	30 50 60	8.33 13.9 16.7	36 32 28.4	11	160M1-2	11	160M1-2	15	160M2-2
	1450	15 25 30	4.17 6.94 8.33	9.0 8.0 7.2	1.5	90L-4	1.5	90L-4	2.2	100L1-4
FYH65-160A	2900	27.2 45.4 54.4	7.56 12.6 15.11	29.5 26.4 23.4	7.5	132S2-2	11	160M1-2	15	160M2-2
	1450	13.6 22.7 27.2	3.78 6.31 7.56	7.4 6.6 5.9	1.1	90S-4	1.5	90L-4	2.2	100L1-4
FYH65-160B	2900	24.3 40.5 48.6	6.75 11.25 13.5	24.0 21.5 19	5.5	132S1-2	7.5	132S2-2	11	160M1-2
	1450	12.2 20.3 24.3	3.39 5.64 6.75	6.0 5.4 4.8	1.1	90S-4	1.5	90L-2	1.5	90L-4
FYH50-200	2900	30 50 60	8.33 13.9 16.7	55.2 50 45.2	15	160M2-2	18.5	160L-2	30	200L1-2
	1450	15 25 30	4.17 6.94 8.33	13.5 12.5 11.5	2.2	100L1-4	3.0	100L2-4	4.0	112M-4
FYH50-200A	2900	27.2 45.4 54.4	7.56 12.6 15.11	45.4 41 37.2	11	160M1-2	15	160M2-2	22	180M-2
	1450	13.6 22.7 27.2	3.78 6.31 7.56	11.1 10.3 9.5	1.5	90L-4	2.2	100L1-4	3.0	100L2-4
FYH50-200B	2900	24.3 40.5 48.6	6.75 11.25 13.5	36 32.5 29	7.5	132S2-2	11	160M1-2	15	160M2-2
	1450	12.2 20.3 24.3	3.39 5.64 6.75	9.0 8.1 7.3	1.5	90L-4	2.2	100L1-4	2.2	100L1-4

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型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0	比重(Specific gravity)1.35	比重(Specific gravity)1.85			
		(m³/h)	(L/s)		电机功率及型号 Motor power and type					
					kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size
FYH50-250	2900	30 50 60	8.33 13.9 16.7	83.5 80 76	30	200L1-2	37	200L2-2	45	225M-2
	1450	15 25 30	4.17 6.94 8.33	21 20 19	4.0	112M-4	5.5	132S-4	7.5	132M-4
FYH50-250A	2900	28.14 46.9 56.28	7.82 13.03 15.63	73.6 70.5 67.4	22	180M-2	30	100L1-2	37	200L2-2
	1450	14.07 23.45 28.14	3.91 6.51 7.82	18.4 17.6 16.9	3.0	100L2-2	4.0	112M-4	5.5	132S-4
FYH50-250B	2900	26.4 44 52.8	7.33 12.22 14.67	64.8 62.2 60	18.5	160L-2	30	200L1-2	37	200L2-2
	1450	13.2 22 26.4	3.67 6.11 7.33	16.2 15.6 15	3.0	100L2-4	4.0	112M-4	5.5	132S1-4
FYH50-315	1450	15 25 30	4.17 6.94 8.33	32.5 32 31.5	7.5	132M-4	11	160M-4	11	160M-4
FYH50-315A	1450	14.07 23.45 28.14	3.91 6.51 7.82	28.5 28 27.5	5.5	132S-4	7.5	132M-4	11	160M-4
FYH50-315B	1450	13.2 22 26.4	3.67 6.11 7.33	25 24.5 24	5.5	132S-4	7.5	132M-4	11	160M-4
FYH50-315C	2900	23.4 39 46.8	6.5 10.8 13	79 77 75.5	22	180M-2	30	200L1-2	45	225M-2
	1450	11.7 19.5 23.4	3.25 5.42 6.5	20 19.5 19	3.0	100L2-4	4.0	112M-4	5.5	132S-4
FYH80-125	2900	60 100 120	16.7 27.8 33.3	24.7 20 16.1	11	160M1-2	15	160M2-2	18.5	160L-2
	1450	30 50 60	8.33 13.9 16.7	6.18 5.0 4.03	1.5	90L-4	2.2	100L1-4	3.0	100L2-4
FYH80-125A	2900	55.1 91.8 110.2	15.31 25.5 30.6	20.7 16.8 13.4	7.5	132S2-2	11	160M1-2	15	160M2-2
	1450	27.5 45.9 55	7.64 12.75 15.28	5.18 4.2 3.35	1.5	90L-4	2.2	100L1-4	3.0	100L2-4
FYH80-160	2900	60 100 120	16.7 27.8 33.3	37 32 28	15	160M2-2	22	180M-2	30	200L1-2
	1450	30 50 60	8.33 13.9 16.7	9.25 8.0 7.0	2.2	100L1-4	3.0	100L2-4	4.0	112M-4
FYH80-160A	2900	54.6 91 109	15.17 25.28 30.28	30.6 26.5 23.2	15	160M2-2	18.5	160L-2	22	180M-2
	1450	27.3 45.5 54.5	7.58 12.64 15.14	7.65 6.6 5.8	2.2	100L1-4	2.2	100L1-4	3.0	100L2-4

性能表 PERFORMANCE TABLE

型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0	比重(Specific gravity)1.35	比重(Specific gravity)1.85			
		(m³/h)	(L/s)		电机功率及型号 Motor power and type					
					kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size
FYH80-160B	2900	47 78.5 94	13.1 21.8 26.1	22.5 19.5 17	7.5	132S2-2	11	160M1-2	15	160M2-2
	1450	23.5 39.3 47	6.53 10.92 13.06	5.6 4.9 4.3	1.5	90L-4	2.2	100L1-4	2.2	100L1-4
FYH65-200	2900	60 100 120	16.7 27.8 33.3	56 50 44	30	200L1-2	37	200L2-2	45	225M-2
	1450	30 50 60	8.33 13.9 16.7	14.0 12.5 11.0	4.0	112M-4	5.5	132S-4	7.5	132M-4
FYH65-200A	2900	54.6 91 109	15.17 25.28 30.28	46.5 41.5 36.5	18.5	160L-2	30	200L1-4	37	200L2-2
	1450	27.3 45.5 54.5	7.58 12.64 15.14	11.6 10.4 9.1	3.0	100L2-4	4.0	112M-4	5.5	132S-4
FYH65-200B	2900	52 86.5 104	14.4 24 28.9	38 35 30	15	160M2-2	22	180M-2	30	200L1-2
	1450	26 43.3 52	7.22 12.03 14.44	9.5 8.8 7.5	2.2	100L1-4	3.0	100L2-4	4.0	112M-4
FYH65-250	2900	60 100 120	16.7 27.8 33.3	88 80 74	45	225M-2	55	250M-2	75	280S-2
	1450	30 50 60	8.33 13.9 16.7	22 20 18.5	5.5	132S-4	7.5	132M-4	11	160M-4
FYH65-250A	2900	56 93.5 112	15.6 26 31.1	77 70 64.5	37	200L2-2	45	225M-2	75	280S-2
	1450	28 46.8 56	7.78 13 15.56	19.2 17.5 16.1	5.5	132S-4	7.5	132M-4	11	160M-4
FYH65-250B	2900	52.7 87.8 105.4	14.64 24.39 29.28	67.9 61.7 57	30	200L1-2	45	225M-2	55	250M-2
	1450	26.4 43.9 52.7	7.32 12.19 14.64	17 15.4 14.3	4.0	112M-4	5.5	132S-4	7.5	132M-4
FYH65-315	1450	30 50 60	8.33 13.9 16.7	33.5 32 30.5	11	160M-4	15	160L-4	18.5	180M-4
FYH65-315A	1450	28 46.8 56	7.78 13 15.56	29 28 26.5	11	160M-4	11	160M-4	15	160L-4
FYH65-315B	1450	26.4 43.9 52.7	7.32 12.19 14.64	25.5 24.3 23	7.5	132M-4	11	160M-4	15	160L-4
FYH65-315C	2900	49.8 83 99.6	13.83 23.06 27.67	90.9 86.1 82	45	225M-2	55	250M-2	75	280S-2
	1450	24.9 41.5 49.8	6.92 11.53 13.83	22.7 21.5 20.5	5.5	132S-4	7.5	132M-4	11	160M-4

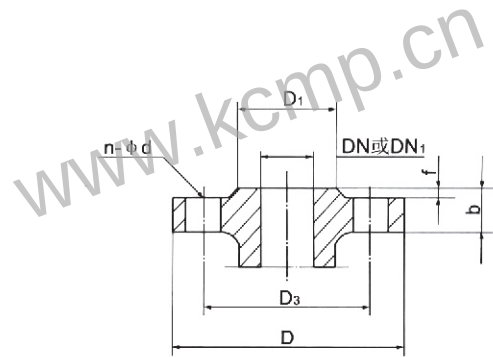
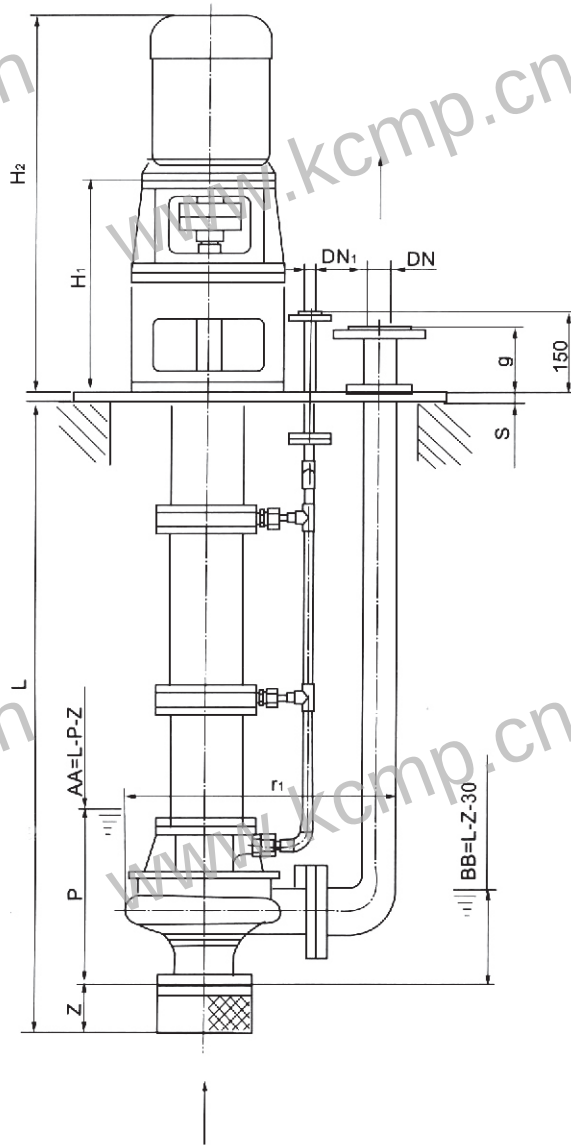
性能表 PERFORMANCE TABLE

型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0		比重(Specific gravity)1.35		比重(Specific gravity)1.85			
		电机功率及型号 Motor power and type										
		(m³/h)	(L/s)		kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size		
FYH100-200	2900	120	33.3	61	4.5	225M-2	75	280S-2	90	280M-2		
		200	55.6	50								
		240	66.7	41								
	1450	60	16.7	15.25	7.5	132M-4	11	160M-4	15	160L-4		
		100	27.8	12.5								
		120	33.3	10.25								
FYH100-200A	2900	110	30.56	50.5	37	200L2-2	45	225M-2	75	280S-2		
		182	50.56	41.4								
		218	60.56	34								
	1450	55	15.28	12.6	5.5	132S-4	7.5	132M-4	11	160M-4		
		91	25.3	10.4								
		109	30.3	8.5								
FYH100-200B	2900	99.6	27.67	41.5	30	200L1-2	37	200L2-2	55	250M-2		
		166	46.11	34								
		199	55.28	28								
	1450	49.8	13.83	10.5	4.0	112M-4	5.5	132S-4	7.5	132M-4		
		83	23.1	8.5								
		99.5	27.64	7.0								
FYH100-250	2900	120	33.3	90	75	280S-2	110	315S-2	132	315M1-2		
		200	55.6	80								
		240	66.7	73								
	1450	60	16.7	22.5	11	160M-4	15	160L-4	18.5	180M-4		
		100	27.8	20								
		120	33.3	18.25								
FYH100-250A	2900	112	31.11	78	75	280S-2	90	280M-2	110	315S-2		
		186.5	51.81	69.5								
		224	62.22	63.5								
	1450	56	15.6	19.5	11	160M-4	11	160M-4	15	160L-4		
		93.5	26	17.5								
		112	31.11	16								
FYH100-250B	2900	105.5	29.3	69.0	55	250M-2	75	280S-2	110	315S-2		
		175.5	48.75	61.5								
		211	58.6	56								
	1450	52.75	14.65	17.25	7.5	132M-4	11	160M-4	15	160L-4		
		87.8	24.38	15.4								
		105.5	29.31	14								
FYH100-250C	2900	95.4	26.5	57	45	225M-2	55	250M-2	75	280S-2		
		159	44.17	50.5								
		190.8	53	46								
	1450	47.7	13.25	14.25	5.5	132S-4	7.5	132M-4	11	160M-4		
		79.5	22.1	12.6								
		95.4	26.5	11.5								
FYH100-315	1450	60 100 120	16.7 27.8 33.3	33.5 32 30.5	18.5	180M-4	22	180L-4	30	200L-4		
FYH100-315A	1450	56 93.5 112	15.6 26 31.11	29.5 27.5 26.5	15	160L-4	18.5	180M-4	30	200L-4		
FYH100-315B	1450	52.75 87.8 105.5	14.65 24.38 29.31	25.8 24.5 23.5	15	160L-4	18.5	180M-4	22	180L-4		
FYH100-315C	2900	98.7 164.5 197.4	27.42 45.7 54.83	90 84.5 81	75	280S-2	110	315S-2	132	315M1-2		
	1450	49.4 82.3 98.7	13.72 22.86 27.42	22.5 21.5 20.5	11	160M-4	15	160L-4	18.5	180M-4		

性能表 PERFORMANCE TABLE

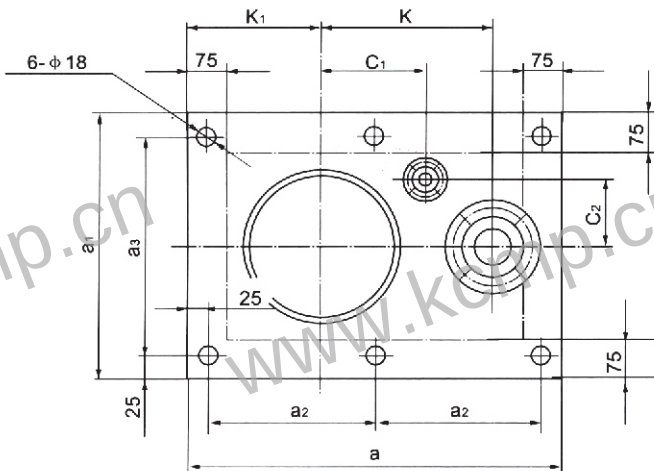
型号 Type	转速 Speed n (r/min)	流量 Flow Q		扬程 Head H (m)	比重(Specific gravity)1.0	比重(Specific gravity)1.35	比重(Specific gravity)1.85			
		(m³/h)	(L/s)		电机功率及型号 Motor power and type					
					kw	电机型号 Motor size	kw	电机型号 Motor size	kw	电机型号 Motor size
FYH100-400	1450	60 100 120	16.7 27.8 33.3	52 50 48.5	30	200L-4	45	225M-4	55	250M-4
FYH100-400A	1450	56 93 112	15.6 25.83 31.1	45 43.2 41.9	30	200L-4	37	225S-4	45	225M-4
FYH100-400B	1450	52.8 87.8 105.5	14.67 24.39 29.31	40.1 38.5 37.4	22	180L-4	30	200L-4	45	225M-4
FYH100-400C	1450	48.9 81.5 97.8	13.6 22.6 27.2	34.5 33.2 32.2	18.5	180M-4	30	200L-4	37	225S-4
FYH125-250	1450	120 200 240	33.3 55.6 66.7	24.8 20 15	18.5	180M-4	30	200L-4	37	225S-4
FYH125-250A	1450	109.1 182 218.2	30.31 50.56 60.61	20.5 16.5 12.5	15	160L-4	18.5	180M-4	30	200L-4
FYH125-250B	1450	102 170 204	28.33 47.22 56.67	17.9 14.5 10.8	11	160M-4	15	160L-4	22	180L-4
FYH125-315	1450	120 200 240	33.3 55.6 66.7	36.3 32 28.5	30	200L-4	37	225S-4	55	250M-4
FYH125-315A	1450	109.1 182 218.2	30.31 50.56 60.61	30 25.5 23.5	22	180L-4	30	200L-4	45	225M-4
FYH125-315B	1450	102 170 204	28.33 47.22 56.67	26.2 23.1 20.6	18.5	180M-4	30	200L-4	37	225S-4
FYH125-400	1450	120 200 240	33.3 55.6 66.7	57.5 50 44	55	250M-4	75	280S-4	90	280M-4
FYH125-400A	1450	109.1 182 218.2	30.31 50.56 60.61	47.5 41 36.5	37	225S-4	55	250M-4	75	280S-4
FYH125-400B	1450	102 170 204	28.33 47.22 56.67	41.5 36.1 31.8	37	225S-4	45	225M-4	75	280S-4
FYH125-400C	1450	96 160 192	26.67 44.44 53.33	37 32 28	30	200L-4	37	225S-4	55	250M-4
FYH150-250	1450	240 400 460	66.7 111.1 127.8	23 20 18	37	225S-4	55	250M-4	75	280S-4
FYH150-250A	1450	218 363.5 418	60.56 101 116.1	19 16.5 15	30	200L-4	37	225S-4	55	250M-4
FYH150-250B	1450	204 340 391	56.7 94.4 108.6	16.6 14.5 13	22	180L-4	30	200L-4	45	225M-4
FYH150-315	1450	240 400 460	66.7 111.1 127.8	35.6 32 29.4	55	250M-4	75	280S-4	110	315S-4
FYH150-315A	1450	218 363.5 418	60.56 101 116.1	29.4 25.5 24.3	45	225M-4	55	250M-4	75	280S-4
FYH150-315B	1450	204 340 391	56.7 94.4 108.6	25.7 23.1 21.2	37	225S-4	55	250M-4	75	280S-4
FYH150-400	1450	240 400 460	66.7 111.1 127.8	55.8 50 47	90	280M-4	132	315M1-4	160	315M2-4
FYH150-400A	1450	218 363.5 418	60.56 101 116.1	46 41 38.8	75	280S-4	90	280M-4	132	315M1-4
FYH150-400B	1450	204 340 391	56.7 94.4 108.6	40.3 36.1 34.0	55	250M-4	75	280S-4	110	315S-4
FYH150-400C	1450	192 320 368	53.3 88.9 102.2	35.7 32 30.1	55	250M-4	75	280S-4	90	280M-4

FYH型泵外形尺寸图 OUTLINE DIMENSIONS DRAWING OF FYH



法兰尺寸(GB/T9113.1-2000)
Flange size(GB/T9113.1-2000)

	DN1	DN							
	15	32	40	50	65	80	100	125	150
D	80	140	150	165	185	200	220	250	285
D1	38	76	84	99	118	132	156	184	211
D3	55	100	110	125	145	160	180	210	240
b	12	18	18	20	20	20	22	22	24
f	2	2	2	2	2	2	2	2	2
4-φd	4-φ11	4-φ18	4-φ18	4-φ18	4-φ18	8-φ18	8-φ18	8-φ18	8-φ22



注：AA：最低起动液位
BB：最低停机液位

Note: AA:Lowest starting liquid level
BB:Lowest stop liquid level

FYH型外型尺寸表 OUTLINE DIMENSIONS TABLE OF FYH

型号 Type	轴承架 Bearing bracket	DN	a	a1	a2	a3	k	k1	r1	g	z	s	p	c1	c2	L		
FYH32-125	Lk35	32	730	500	340	450	233	292	365	120	60	25	240	155	155	液下深度≤6米 Submersible depth≤6 meter		
FYH32-160							253		405									
FYH32-200							273		445									
FYH50-125		50					264	405	272		445		137					
FYH50-160							284	460										
FYH40-200		40					285	460	135	128	260							
FYH65-125		65					305	250					458					
FYH65-160							325	248					495					
FYH80-125		80					346	236	525	104								
FYH32-250	Lk45	32	860	580	405	530	318	345	513	120	60	25	270	186	186			
FYH40-250		40					329	338	526		137		295	229	132			
FYH40-315			900	630	425	580	354	360	582				260	186	186			
FYH50-200		50	860	580	405	530	324	326	506	128			295	229	132			
FYH50-250							349		553									
FYH50-315			900	630	425	580	404	332	638		295		229	132				
FYH80-160		80	860	580	405	530	366	296	556	135	104		270	186	186			
FYH65-200							370	303	565									
FYH65-250			900	630	425	580	395	324	615								295	229
FYH65-315		65	970	660	460	610	425	360	680								295	229
FYH100-200	Lk55	100	970	660	460	610	460	314	695	135	135	30	330	226	226			
FYH100-250								327	720				340	277	160			
FYH100-315			1050	720	500	670	495	365	785									
FYH100-400				760		710	535	410	860					150	277		160	
FYH125-250		125	1150	720	550	670	585	358	875									
FYH125-315							367		360	226	226							
FYH125-400			1200	800	575	750	630	390					895	160	165		395	277
FYH150-250		150	1250		600		651	385	980									
FYH150-315			1300	860	625	810	676	408	995									
FYH150-400			1350	900	650	850	726	424	1040									

1120

轴承架 Bearing bracket	电机机座号 Motor size	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M 4P	225M	250M	280S	280M	315S 4P	315S	315M 4P	315M
Lk35	H1	372	382		393	413			441														
	H2	617	642	667	713	733	808		931	976													
Lk45	H1				414		434				464			496	466	496							
	H2				734	754	829	869	954	999	1024	1064	1129	1176	1201	1171	1286	1356					
Lk55	H1					527	547				577			609	577		609		639	609	639	609	
	H2					867	942	982	1067	1112	1137	1177	1242	1289	1314	1282	1399	1469	1519	1699	1669	1719	1689

安 装

- 1、泵组装好后，盘动联轴器，看是否转动灵活，检查有无金属摩擦声。
- 2、检查泵轴和电机轴的同心度，两联轴器外圆上的差数不得超过0.3毫米。
- 3、轴衬需能浸在液体中，否则应自出口管路中引出(或从外部接入)适量液体，润滑轴衬，防止干磨损坏。
- 4、在化工流程系统中，若有杂物落入容器时，为防止杂物损坏泵体，可在吸入管处，装上所需形式的拦污网。
- 5、泵的吸入口到容器底部之距离为吸入口径的1.5~2倍，四周不应少于2.5倍，小口径取大值，大口径取小值。
- 6、泵之出液管路应加设支架支撑，其重量不允许加在泵出口法兰上。
- 7、安装完毕后，还需检查各螺帽是否旋紧，并应盘动联轴器，转动灵活后方可将泵和电机组装在容器上，装好后再检查一次。

INSTALLATION

1. After installing the pump, check whether the coupling runs flexibly and check whether there are some metal friction sounds.
2. Check the concentricity of the pump shaft and motor shaft. The difference on the outer round of the two couplings can't exceed 0.3 mm.
3. The bearing bush should soak into the liquid. Otherwise you should lead to appropriate liquid from the self-outlet pipeline (or joint from the outside), lubricate bearing bush and prevent the dry mill damaging.
4. In chemical process system, if there are some odds to drop into the container, in order to prevent the odds from damaging the pump body, you can install a proper conservancy trash-rack at the suck pipe place.
5. The distance from the pump suck entrance to the bottom of the container is 1.5-2 times of the suck bore. Four rounds can't be less 2.5 times. The small bore gets the large value and large bore gets the small value.
6. The liquid-out pipeline of the pump should separately set up the support frame and its weight can't be allowed to add the pump outlet flange.
7. After finishing installation, check whether the nuts of all the parts are tightened and then install the pump and motor on the container after the coupling runs flexibly. After installation, check it again.

起动与停车

- 1、检查轴承腔，使之保持有定量干净的黄油。通常以充满空腔容积的1/2~1/3为宜，避免运转时轴承温升过高。
- 2、盘动联轴器、检查有否轻重不均匀。否则需找出原因，待消除后再运转。
- 3、若采用外部冲洗润滑轴衬，在启动电机前需将外部液体通入轴衬中。
- 4、检查电机的转向，使之与泵的规定旋转方向相同。
- 5、关闭出口管路中的闸阀及压力表。
- 6、起动电机后打开压力表，慢慢的打开出口管路闸阀到所需位置，投入正常运转。
- 7、正常停车，应先慢慢关闭出口闸阀，然后停止电动机，关闭压力表。
- 8、长期停车或长期不用，应将泵从容器中取出，清洗、重装、加油保管。

START AND STOP

1. Check the bearing cavity and let it keep a ration clean butter. Usually it's appropriate to fill with the empty cavity capacity 1/2~1/3, avoid the bearing temperature rising while running.
2. Check whether the coupling is even on weight, otherwise you should find out the reason and get rid of it and then run it.
3. If adopting the exterior washing lubricating bearing bush, before starting the motor, lead the exterior liquid to wash the bearing bush.
4. Check the motor running direction and let it same as the ruled rotary direction of pump.
5. Close the gate valve and pressure meter on the outlet pipeline.
6. First start the motor and then open the pressure meter, slowly open the gate valve on the outlet pipeline to the desired position and then put into the normal running.
7. Normally stop, first close the outlet gate valve slowly and then stop the motor and close the pressure meter.
8. Stop or no use for long time, please remove the pump from the container, clean, reassemble and add oil to be stored.

运 转

- 1、轴承温度不得高于80℃，轴承盒内应有适量的黄油。
- 2、随时注意保证黄油的洁净。
- 3、泵运转过程中发生下列故障，应立即停车，并进行检修。

RUNNING

1. The bearing temperature can't be high 80℃ and there should be appropriate butter in bearing box.
2. Keep and guarantee the butter pure and clean at any time.
3. Stop machine and carry out the check if finding the following breakdowns in the course of running.

故障原因及解决方法POSSIBLE FAULT, IT'S CAUSE AND SOLVING METHODS

故障的可能因素 Possible factors of fault	故障原因 Cause of the fault	解决方法 Solving methods
1、打不出液体 The pump can't give liquid	a.电机转向不对 The motor running direction is not correct. b.闭式叶轮流道，或吸入，压出管路淤塞 The close impeller flow channel or suction and outlet pipeline are blocked c.液体未浸没叶轮中心线 The liquid hasn't soaked the impeller central shaft	a.更正转向 Correct the direction. b.消除淤塞部分 Remove the block part c.调整浸没高度 Adjust the soak height
2、流量不足 The pump has insufficient flux	a.叶轮腐蚀磨损严重 The impeller is corrosive seriously b.转速不足 The speed is insufficient c.吸入或压出口部分堵塞 Suction or outlet part are blocked	a.更换叶轮 Replace the impeller b.增加转速 Increase the speed c.消除堵塞部分 Remove the block part
3、扬程不足 The pump total head is insufficient	a.输送的液体中含有气体 The conveyed liquid contains gas b.叶轮被严重腐蚀 The impeller is corrosive seriously c.转速不足 The speed is insufficient	a.降低液体温度，排除气体 Reduce the liquid temperature and expel the gas b.更换叶轮 Replace the impeller c.增加转速 Increase the speed
4、功率过大 The power is too large	a.流量超过使用范围 The flux exceeds the using range b.介质比重过大 The medium specific gravity is too large c.产生机械摩擦 Mechanical friction d.轴衬干磨，或润滑油不够 The bearing bush dry mill or lubrication liquid is insufficient	a.按泵使用范围进行运转 Running according to the pump using range b.更换较大功率电机 Replace the large power motor c.查明摩擦原因并解决之 Check the friction reason and solve it d.将轴衬浸入液体中 Soak the bearing bush into the liquid
5、轴承发热 The bearing is hot	a.泵轴与电机轴不同心 The pump shaft and motor shaft are not concentric b.轴承盒内缺油或油变质 Lack of grease or the grease is bad in bearing box c.轴摆振过大 Shaft vibration is too large	a.调整同心 Adjust the concentricity b.加油或换油 Add grease or replace it c.更换轴承 Replace bearing
6、杂音和振动 Noise and vibration	a.泵轴与电机轴不同心 The pump shaft and motor shaft is not concentric b.输送液体中含有气体 The conveyed liquid contains gas c.转子不平衡 The rotor is unbalance d.轴衬与轴套磨损过大 The bearing bush and shaft sleeve are damaged e.螺母有松动现象 The nut is loosen	a.调整同心 Adjust the concentricity b.降低液体温度，排除气体 Reduce the liquid temperature and expel the gas c.更换零件 Replace the parts d.更换轴衬，修复轴套 Replace the bearing bush and repair the shaft sleeve e.拧紧各部位螺母 Lock various nuts

泵与介质接触的主要零件材料耐腐蚀性能选择

金属材料耐腐蚀性能通常用腐蚀深度(又称腐蚀速度)作为评定金属材料耐腐蚀性能的一项主要指标。

腐蚀深度是指金属材料在单位时间内腐蚀的金属深度, 单位用“毫米/年”(mm/a)表示。

按照腐蚀程度的不同, 通常分为: 腐蚀深度小于0.1mm/a的材料, 称为耐腐蚀性能材料; 腐蚀深度为0.1~1mm/a, 称为尚耐腐蚀材料; 腐蚀深度大于1mm/a, 称为耐腐蚀性不好的材料。

一般泵与介质接触的主要零件的材料选用在指定介质情况下, 尚耐腐蚀性材料就可以。

为便于用户选用泵时, 根据所输送介质条件, 选择适宜泵的主要零件材料耐腐蚀性能, 本说明书汇编了:

ZG1Cr18Ni9(302)、ZG1Cr18Ni9(321)、ZG0Cr18Ni12Mo2Ti(316Ti)、ZG1Cr18Ni12Mo2Ti(307)、

ZG00Cr17Ni14Mo2(316L)、ZG1Cr18Mn13Mo2CuN(402)等材料耐腐蚀性能表供选泵时参考。

THE SELECTION OF THE CORROSIVENESS OF THE MAIN PARTS' MATERIAL TOUCHED WITH THE MEDIUM

The corrosiveness of the metal material is often judged by Corrosive Depth (or Corrosive Speed), which is the main target.

Corrosive Depth means the corrosive depth of the metal during the unit time, the unit is often used as mm/a.

According to the different corrosive depth, the material can be classified as: the corrosive depth less than 0.1 mm/a--the strong corrosion prevention material; the corrosive depth is 0.1~1 mm/a--the corrosion prevention material; and the corrosive depth is more than 1mm/a--the weak corrosion prevention material.

Generally speaking, the main parts touching with the medium can take the corrosion prevention material as the selection.

In order to make the user convenient in selection the pump the proper material of the main parts suitable for the pump, the instruction book has edited the following: ZG1Cr18Ni9 (302), ZG1Cr18Ni9Ti (321), ZG0Cr18Ni12Mo2Ti (316Ti), ZG1Cr18Ni12Mo2Ti(307), ZG00Cr17Ni14 Mo2 (316L), ZG1Cr18Mn13Mo2CuN (402) etc. the corrosion prevention material tables for reference.

ZG1Cr18Ni9 (302)钢的耐腐蚀性能表 ZG1Cr18Ni9(302)STEEL CORROSION PREVENTION TABLE

介质条件 Medium Condition			腐蚀深度 Corrosion Depth (mm/a)
介质 Medium	浓度(%) Density	温度(°C) Temperature	
硝 酸 Nitric Acid	0.5~99	20	<0.1
	7~37	沸 Boiling	0.1~1
	65	沸 Boiling	<1
	93	37	0.01
	93	55	0.21
	97	55	0.76
	99	55	1.25
	99	沸	<10
	99	沸	<10
醋 酸 Acetic Acid	10	沸	<0.1
	50	沸	<1
	80	沸	<3

介质条件 Medium Condition			腐蚀深度 Corrosion Depth (mm/a)
介质 Medium	浓度(%) Density	温度(°C) Temperature	
硫 酸 Sulfuric Acid	0.5	190	0.06~0.14
	1	20~90	0.002
	5	20	0.6
	5	40	<3
	5	50	3~4.5
	5	100~105	3.3~15
	10~50	20	2~5
	80	20	0.46
	90~95	20	0.0006~0.008
柠 檬 酸 Lemon Acid	1~50	20	<0.1
	5	140	<1
	50	沸 Boiling	<10
	95	20~140	<0.1

ZG1Cr18Ni9Ti (321)钢的耐腐蚀性能表 ZG1Cr18Ni9Ti (321)STEEL CORROSION PREVENTION TABLE

介质 Medium	介质条件 Medium Condition		腐蚀深度 Corrosion Depth (mm/a)
	浓度(%) Density	温度(°C) Temperature	
硝酸 Nitric Acid	30	20	0.007
	50~56	20	0
	93	43	0.05
	95	37~55	0.03
	97	55	0.76
	99	55	1.25
	99.67	55	< 10
硫酸 Sulfuric Acid	2	50	0.016
	2	100	3~6.5
	5	50	3~4.5
	5	100~105	3.3~15
醋酸 Acetic Acid	1~浓(Density)	20~40	<0.1
	10	20~40	<0.1
	50	20~40	<0.1
	80	20~40	< 0.3
磷酸 Phosphoric Acid	10	80	0.01
	28	80	0.67
	45	80	0.1~1
	60	60	1.7
	80	110	腐蚀深度过大 Too deep
柠檬酸 Lemon Acid	1~50	20	<0.1
	5	140	<1
	50	140	< 0.1
	95	20~140	<0.1
硫 Sulfur	熔化的 Melted	130	<0.1
	熔化的 Melted	445	<0.3

介质 Medium	介质条件 Medium Condition		腐蚀深度 Corrosion Depth (mm/a)
	浓度(%) Density	温度(°C) Temperature	
混合酸 Mixing Acid	H ₂ SO ₄ 78	20	0.003
	HNO ₃ 0.5		
	H ₂ SO ₄ 78	90	0.05
	HNO ₃ 0.5		
	H ₂ SO ₄ 78	20	0.018
	HNO ₃ 1		
	H ₂ SO ₄ 78	90	0.0251
	HNO ₃ 1		
氢氧化钾 Caustic Potash	20	20~沸 Boiling	<0.1
	50	20	<0.1
	50	沸 Boiling	<0.1
	熔化的 Melted	沸 Boiling	> 10
	~12	100	0.0044
氢氧化钠 Caustic Soda	~ 35	100	0.008
	25	20~沸 Boiling	<0.1
重铬酸钾 Potash Dichromate	10~50	100	<0.1
氯化锰 Manganese Chloride	10	20~沸 Boiling	<0.1
过氧化钠 Hyperoxide Sodium	25~50	沸 Boiling	<0.1
亚硫酸钠 Sulfurous Sodium	5~饱和 5~Saturation	100	<0.1
硫酸钠 Sulfuric Sodium	熔化的 Melted	900	>10.1
硝酸银 Silver Nitrate	10	沸 Boiling	<0.1
氯 Chlorine	干燥的 Dry	20	<0.1
	干燥的 Dry	100	> 10
漂白粉 Bleaching Powder	潮湿的 Wet	40	0.48
氯化氢 Hydrogen Chlorine	干燥的 Dry	20~100	<1
	干燥的 Dry	100~500	< 0.1

ZG0Cr18Ni12Mo2Ti (316Ti)钢的耐腐蚀性能表 ZG0Cr18Ni12Mo2Ti (316Ti)STEEL CORROSION PREVENTION TABLE

介质 Medium	介质条件 Medium Condition		腐蚀深度 Corrosion Depth (mm/a)
	浓度(%) Density	温度(°C) Temperature	
硝酸 Nitric Acid	1~5	20	<0.1
	1~5	80	<0.1
	5	沸 Boiling	<0.1
	20	20~80	<0.1
	50	20~50	<0.1
	50	80	<0.1
	50	沸 Boiling	<0.1
	60	20~60	<0.1
	60	沸 Boiling	0.1~1
	65	20	<0.1
	65	85	<0.1
	65	沸 Boiling	0.1~1
	90	20	<0.1
	90	70	0.1~1
	90	沸 Boiling	1~3
	99	20	0.1~1
	99	沸 Boiling	3~10
硫酸 Sulfuric Acid	0.5	20	<0.1
	1	20	<0.1
	3	20	<0.1
	40	20	<0.1
	80	20	0.1~1
	98	20	<0.1
亚硫酸 Sulfurous Acid	2	20	<0.1
	20	20	<0.1

介质 Medium	介质条件 Medium Condition		腐蚀深度 Corrosion Depth (mm/a)
	浓度(%) Density	温度(°C) Temperature	
氢氟酸 Hydrofluoric Acid	10	20	<0.1
	10	100	1~3
	10~20	沸 Boiling	<0.1
氢氧化钠 Caustic Soda	30	100	<0.1
	40	90	<0.1
	50	90	<0.1
	50	100	<0.1
	60	90	<0.1
	70	90	<0.1
	70	90	<0.1
草酸 Oxalic Acid	2.5	20	<0.1
	2.5	60	<0.1
	2.5	沸 Boiling	<0.1
	10	20	<0.1
	10	沸 Boiling	1~3
	50	沸 Boiling	0.1~1
	50	沸 Boiling	0.1~1
氢氧化钾 Caustic Potash	25	沸 Boiling	<0.1
	50	20	<0.1
	50	沸 Boiling	<0.1
	68	120	<0.1
高锰酸钾 Potassium Permanganate	5~10	20	<0.1
	10	沸 Boiling	<0.1
盐酸 Hydrochloric Acid	0.5		1~3
	3		<0.1
	5		<0.1
	10		0.1~1
	30		3~10

ZG1Cr18Ni12Mo2Ti (307)钢的耐腐蚀性能表 ZG1Cr18Ni12Mo2Ti (307)STEEL CORROSION PREVENTION TABLE

介质 Medium	介质条件 Medium Condition		腐蚀深度 Corrosion Depth (mm/a)
	浓度(%) Density	温度(°C) Temperature	
硫酸 Sulfuric Acid	1	85	<1
	3	80	<3
	5	20	<0.1
	5	80	1~3
	10	20	<0.1
	10	80	1~3
	20	20	<0.1
	20	60	<0.3
	40	20	<0.1
	40	60	>10
	80	20	<1
	80	60	3~10
亚硫酸 Sulfurous Acid	20	20	<0.1
	饱和溶液 Saturation Liquid	20	<0.1
	潮湿气体 Wet Air	20	<0.1
	饱和溶液 Saturation Liquid	160~200 (0.8~2MPa)	<0.1
磷酸 Phosphoric Acid	1~80	20	<0.1
	1~45	沸 Boiling	<0.1
	1	140(0.3MPa)	<0.1
	80	60	<0.1
	80	110~沸 Boiling	1~3
盐酸 Hydrochloric Acid	0.5	20	<0.1
	0.5	沸 Boiling	<3
	1	20	<0.1
	1	50	<3
	5	20	<0.1
	5	60	<3
	10	20	<1
	10	60	3~10
	20	20	<3
	20	60	>10
铬酸 Chromic Acid	10	20	<0.1

介质 Medium	介质条件 Medium Condition		腐蚀深度 Corrosion Depth (mm/a)
	浓度(%) Density	温度(°C) Temperature	
铬酸 Chromic Acid	10	沸 Boiling	<1
	50	20	<0.1
	50	沸 Boiling	<0.3
氢氧化钠 Caustic Soda	10~30	20~沸 Boiling	<0.1
	40~60	120	<0.1
	60	160	<3
	78	120	<0.1
	熔体 Melting State	318	1-3
氢氧化钾 Caustic Potash	25~50	20~沸 Boiling	<0.1
	68	120	<0.1
	熔体 Melting State	300	1-3
氯 Chlorine	干燥的 Dry	20	<0.1
	潮湿的 Wet	20	<10
	潮湿的 Wet	100	>10
	氯水 Chlorine Water	20	<1
氯苯 Chlorobenzene	纯的 Pure	沸 Boiling	<0.1
漂白粉 Bleaching Powder	干燥的 Dry	20	<0.1
	溶液+25%氯 Liquid+25%Chlorine	20	<0.1
氯化氢 Hydrogen Chlorine	干燥的气体 Dry Air	20~100	<1
	干燥的气体 Dry Air	200	<10
氯化铁 Iron Chloride	30~50	20	3
氯化铵 Ammonium Chloride	28~饱和溶液 28~Saturation Liquid	100	<0.1
氯化钙 Calcium Chloride	饱和溶液 Saturation Liquid	100	<0.1
碘 Iodine	溶液 Liquid	20	>10
碘仿 Iodoform	蒸汽 Steam	60	<0.1
溴化钾 Potassium Bromide	溶液 Liquid	20	<0.1
亚硫酸酐 Sulfurous Acid Anhydride	潮湿的 Wet	20	<0.1
	潮湿的 Wet	300	<0.1
	潮湿的 Wet	500	<1
	潮湿的 Wet	900	<3
亚硫酸钠 Sodium Sulfit	50	沸 Boiling	<0.1
亚硫酸氢钠 Sodium Hydrogen-Sulfit	50	沸 Boiling	<0.1
纤维素 Cellulose	纤维素蒸煮时 Cellulose Boiling	沸 Boiling	0(190 h)
尿素 Urea	溶液 Liquid	20	<0.1

ZG00Cr17Ni14Mo2 (316L)钢的耐腐蚀性能表 ZG00Cr17Ni14Mo2 (316L)STEEL CORROSION PREVENTION TABLE

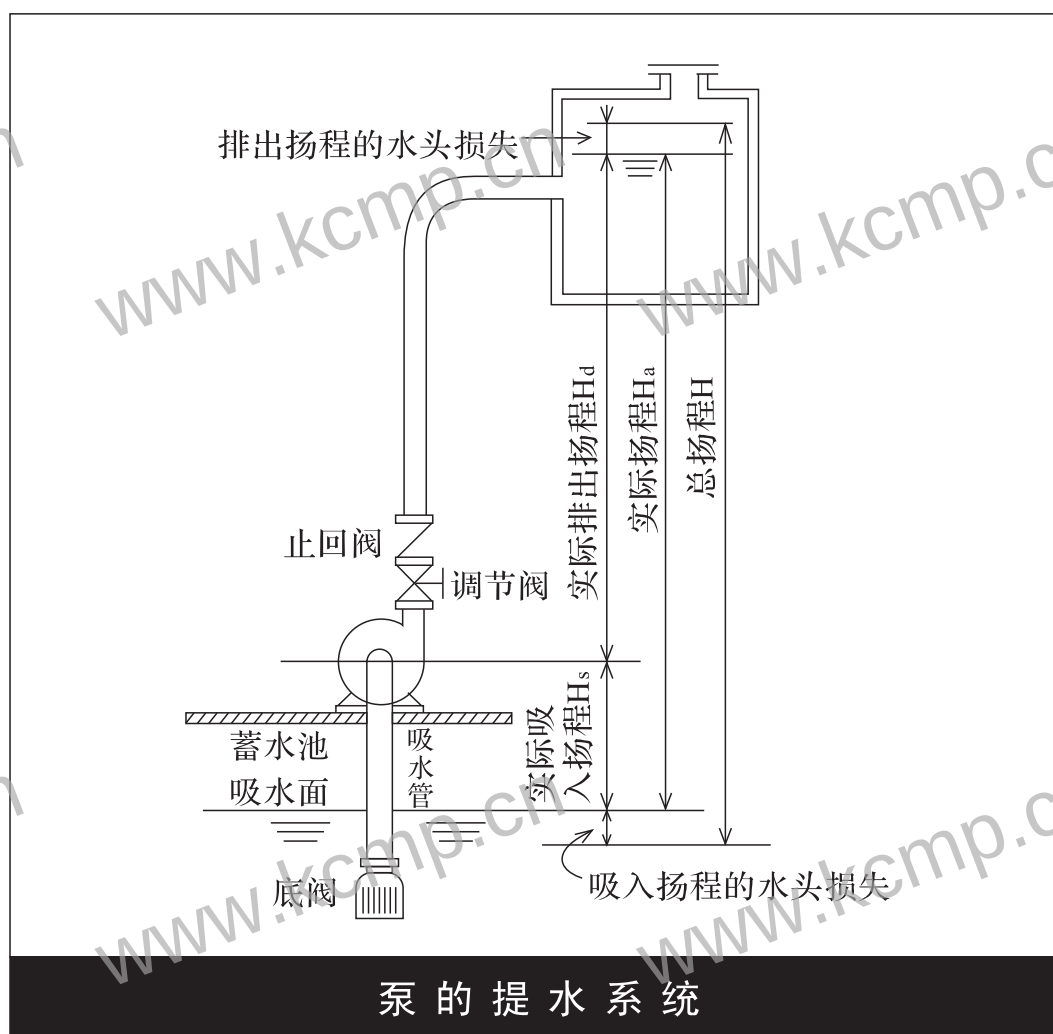
介质条件 Medium Condition			腐蚀深度 Corrosion Depth (mm/a)
介质 Medium	浓度(%) Density	温度(°C) Temperature	
硫酸 Sulfuric Acid	0~30	25	< 0.3
	10	0≤	< 0.3
	40	25	> 0.3
	85	25	< 0.3
	98	25~50	< 0.3
磷酸 Phosphoric Acid	40	70~100	< 0.3
	40	沸 Boiling	< 0.3
	50~60	70~100	< 0.3
	50~60	沸 Boiling	< 0.3
	70	70~90	< 0.3
	70	100	> 0.3
	80	70~80	< 0.3
	80	> 80	> 0.3
粗醋酸 Acetic Acid	浓 Density	81	2.2
	浓 Density	190	14
	浓 Density	沸 Boiling	< 0.0005
甲酸+醋酸 Formic Acid &Acetic Acid	20	沸 Boiling	0.26
	70		

介质条件 Medium Condition			腐蚀深度 Corrosion Depth (mm/a)
介质 Medium	浓度(%) Density	温度(°C) Temperature	
甲酸+醋酸 Formic Acid &Acetic Acid	20	沸 Boiling	0.401
	45		
醋酸 Acetic Acid	30	沸 Boiling	0
	50	沸 Boiling	0.005
	70	沸 Boiling	0.018
	99	沸 Boiling	0.035
熔融尿素 Melted Urea	尿素(Urea) 32~34	190~150	0.065
	二氧化碳 (Carbon dioxide) 10~11		
	氨 (Gaseous ammonia) 35~36		
	水(Water) 19 - 21		
熔融尿素 Melted Urea	二氧化碳 (Carbon dioxide) 10~11	170~180	0.024
	氨 (Gaseous ammonia) 54~55		
	水(Water) 10		
熔融尿素 Melted Urea	尿液(Urea)30	188	0.17
	甲铵 (Dimethyl amine) 30		
	氨 (Gaseous ammonia) 20		
	水(Water) 20		

注：熔融尿素的压力=200 Note: The pressure of the urea=200

ZG1Cr18Mn13Mo2CuN(402)钢是无镍的不锈钢，在大多数化工介质中的耐腐蚀性相当或优于ZG1Cr18Ni9Ti(321)钢，尤其是在腐蚀性能与磨损并存的条件下比ZG1Cr18Ni9Ti更优，机械性能和铸造性能好，但气孔敏感性比ZG1Cr18Ni9Ti大，其耐腐蚀性能在此基础上可参照ZG1Cr18Ni9Ti耐腐蚀性能表。

ZG1Cr18Mn13Mo2CuN(402) steel is the stainless steel without nickel, the Corrosion Prevention in the most medium is equal or better than the ZG1Cr18Ni9Ti(321) steel. Especially in the condition of the Corrosion Prevention and wear, it is much better than ZG1Cr18Ni9Ti, and the machining and casting ability is good, but the air hole sense is bigger than ZG1Cr18Ni9Ti, and the Corrosion Prevention can take the ZG1Cr18Ni9Ti Corrosion Prevention table as reference.





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