



# DF In-line Chemical Process Pumps

*DFWH*



*DFLPH*



*DFLH*



*DFWPH*



**DF** Series, including DFLH Vertical, DFWH Horizontal, DFLPH Vertical Canned Motor and DFWPH Horizontal Canned Motor Pumps, are single-stage single suction centrifugal pumps designed to meet various tough demands in chemical applications. Ideal for delivering corrosive liquids similar to water in terms of viscosity, including organic and non-organic chemicals.

**V-FLO PUMPS & SYSTEMS COMPANY LIMITED**

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# FEATURES

- Designed in accordance with ISO2858-1975(E) International Standard.
- Pressure rating 1.6Mpa (16 bar).
- Soft packing or mechanical seal for shaft sealing.
- Pump directly coupled with motor, compact design and construction.
- Equal inlet and outlet diameter with easy and convenient installation.

V-FLO PUMPS & SYSTEMS COMPANY LIMITED

**Typical Materials of Construction  
for Liquid Contacted Parts**

**Performance Data**  
Flow Range: 3 ~ 700m<sup>3</sup>/hr  
Head Range: 20 ~ 80m  
Suction Dia.: 25 ~ 300  
Pump Speed: 1450/2900 rpm  
Fluid Temp.: -50 ~ 120°C

Material	ZG1Cr18Ni9	ZG1Cr18Ni9Ti	ZG1Cr18Ni12Mo2Ti	OCr18Ni12Mo2Ti	ZG1Cr18Ni12MoTi
Code	303	305	306	316	307
Material	ZG00Cr14Ni14Si4	ZG00Cr14Ni10	ZG270-500	00Cr18Ni12Mo2Ti	ZG1Cr18Mn13Mo2CuNi
Code	300	301	203	316L	402

**Notes: Materials other than the above listed are available upon request.**

## Model Nomenclature

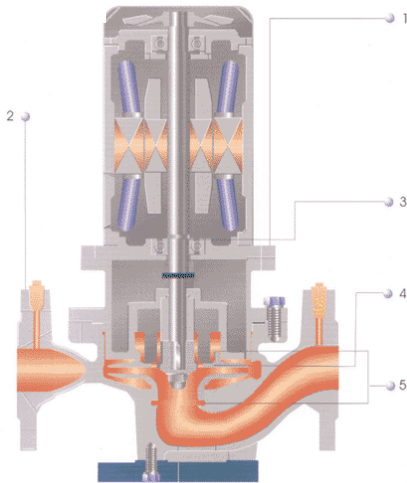
e.g. DFW(L)PHB100-32A  
DF — In-line Process Pump  
W — Horizontal Construction (L for Vertical)  
P — Canned Motor (None for normal)  
H — Chemical Application  
B — Explosion Proof (None for normal)  
100 — Inlet/outlet Diameter (mm)  
32 — Rated Discharge Head (m)

**Variations:**  
A — Impeller Trimming Code

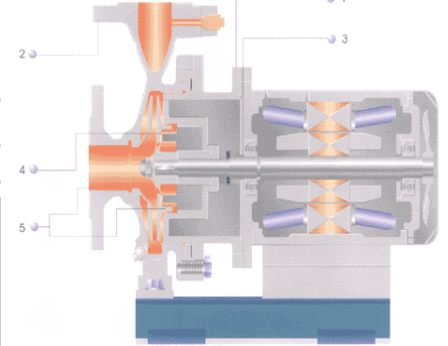


# Configuration Drawings

DFLH

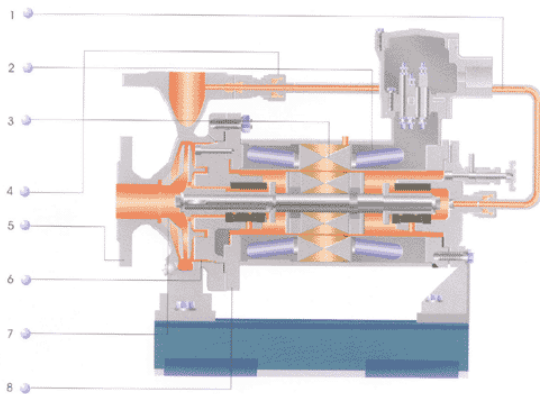


DFWH

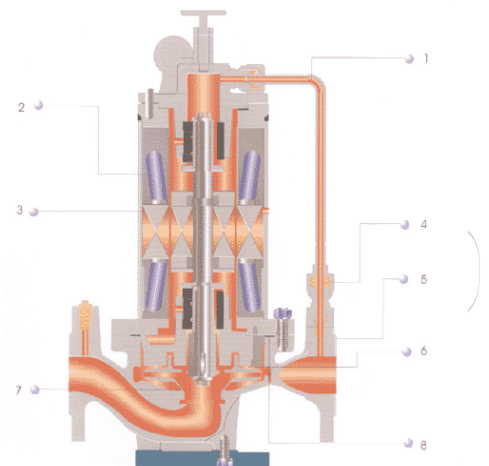


1. Top/back slide construction easy for maintenance and servicing. No need to disturb the pipelines.
2. Equal inlet and outlet facilitated installation.
3. Stable and reliable operation due to the adoption of one-piece shaft for motor and pump.
4. Side clearance optimized to losses caused by friction.
5. The double throttle rings improved sealing effect.

DFWPH



DFLPH



1. Internal circulation is designed to prevent any leakage.
2. Advanced wiring increased strength. Water proof construction suitable for outdoor application.
3. N<sub>2</sub> gas filled insulation greatly improved motor reliability.
4. Motor liquid is well under control and thus remarkably increases pump efficiency.
5. Center-lined discharge outlet arrangement strengthens the mechanical and thermodynamic stability.
6. Side clearance optimized to losses caused by friction.
7. The double throttle rings improved sealing effect.
8. Top/back slide construction easy for maintenance and servicing. No need to disturb the pipelines.

# Configuration Drawings

Model	Capacity		Head m	Effi %	Current A	Noise Dba	Motor HP kw	Speed r/min	NPSHr (m)
	m3/h	L/S							
25-20	3.1	0.58	21	28	2.3	45	0.75	2700	2
	3.1	0.83	20	36					
	4	1.11	18	35					
25-32	3.1	0.58	34	24	3.2	45	1.1	2710	2
	3	0.83	32	32					
	4	1.11	30	33					
25-32A	1.8	0.5	29	23	3.2	50	1.1	2710	2
	2.6	0.72	28	30					
	3.5	0.97	24	31					
	4.4	1.22	20.5	41					
40-20	4.4	1.22	20	46	4.2	50	1.5	2710	2
	6.3	1.75	20	46					
	8.3	2.31	18.5	45					
40-32	4.4	1.22	33.3	34	5.8	50	2.2	2710	2
	6.3	1.75	32	40					
	8.3	2.31	30.2	42					
40-32A	4	1.11	28.5	33	4.2	50	1.5	2710	2
	5.5	1.53	28	38					
	7	1.94	26.6	39					
40-50	4.4	1.22	50.5	28	10	50	4	2710	2
	6.3	1.75	50	33					
	8.3	2.31	48	35					
40-50A	4	1.11	44.6	26	7.7	50	3	2710	2
	5.5	1.53	44	31					
	7	1.94	42.7	32					
50-20	7.5	2.1	23	43	4.5	50	1.5	2710	2
	12.5	3.5	20	51					
	15	4.2	18	49					
50-20A	6.8	1.9	18.8	40	4.2	50	1.5	2710	2
	11.3	3.1	16.4	50					
	13.6	3.8	14.7	47					
50-32	7.5	2.08	34.5	33	7.7	50	3	2830	2
	12.5	3.47	32	46					
	15	4.17	30	50					
50-32A	6.8	1.9	28.5	33	7.7	50	3	2830	2
	11.3	3.1	26.4	44					
	13.6	3.8	24.8	48					
50-50	7.5	2.08	51.8	28	13	50	5.5	2820	2
	12.5	3.47	50	39					
	15	4.17	48	43					
50-50A	6.8	1.9	42.7	25	10	50	4	2830	2
	11.3	3.1	41	38					
	13.6	3.8	39.5	41					
50-80	7.5	2.08	82	23	24.8	55	11	2820	2
	12.5	3.47	80	33					
	15	4.17	78.5	36.5					
50-80A	7	1.94	71.9	21	24.8	55	11	2820	2
	11.7	3.25	70	32					
	14	3.89	68.8	34					
65-20	15	4.17	21.3	47	7.7	50	3	2830	2
	25	6.94	20	62					
	30	8.33	18.6	63					
65-20A	13.6	3.78	17.6	44	7.7	50	3	2830	2
	22.7	6.31	16.5	61					
	27.3	7.58	15.4	59.9					
65-32	15	4.17	34.2	44	13	50	5.5	2820	2
	25	6.94	32	57					
	30	8.33	30	59					
65-32A	13.6	3.78	28.4	41	10	50	4	2830	2
	22.7	6.31	26.5	56					
	27.3	7.58	24.8	56					

# Configuration Drawings

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Model	Capacity		Head m	Effi %	Current A	Noise Dba	Motor HP kw	Speed r/min	NPSHr (m)
	m3/h	L/S							
65-50	15	4.17	53.2	41	24.8	55	11	2820	2
	25	6.94	50	52					
	35	8.33	47.6	53.5					
65-50A	13.6	3.78	43.9	38	17.2	55	7.5	2820	2
	22.7	6.31	41	50					
	27.3	7.58	39.3	51					
65-80	15	4.17	81.2	34	33.2	55	15	2820	2
	25	6.94	80	46					
	35	8.33	78.4	50					
65-80A	14	3.89	71	31	33.2	60	15	2820	2
	23.4	6.5	70	45					
	28	7.18	68.6	47					
80-20	30	8.33	23.2	60	13	55	5.5	2820	3
	50	13.9	20	69					
	60	16.7	17.6	67					
80-20A	27.2	7.56	19.1	57	10	55	4	2820	3
	45.3	12.58	16.5	67					
	54.4	15.12	14.5	64					
80-32	30	8.33	36	57	17.2	55	11	2820	2
	50	13.9	32	67					
	60	16.7	28.4	65					
80-32A	27.2	7.56	29.7	54	17.2	55	7.5	2820	2
	45.4	12.6	26.4	65					
	54.4	15.12	23.4	62.1					
80-50	30	8.33	55.5	53	33.2	60	15	2820	2
	50	13.9	50	63					
	60	16.7	45.2	62					
80-50A	27.2	7.56	45.4	50	24.8	60	11	2820	2
	45.3	12.58	41	61					
	54.4	15.12	37.2	59					
80-80	30	8.33	84	43	63.7	65	30	2890	2
	50	13.9	80	53					
	60	16.7	75	54					
80-80A	27.2	7.56	69	42	47.2	65	22	2890	2
	45.3	12.58	65.7	52					
	54.4	15.12	61.6	52					
100-20	60	16.7	23.7	65	27.8	60	11	2820	3
	100	27.8	20	73					
	120	33.3	16.3	69					
100-20A	55	15.3	20	63	17.2	60	7.5	2820	3
	91.8	25.5	16.9	71					
	109	30.5	13.7	68					
100-32	60	16.7	37	60	33.2	60	15	2820	3.8
	100	27.8	32	73					
	180	33.3	28	73					
100-32A	54.6	15.17	30.6	57	24.8	65	11	2820	3.8
	91	25.28	26.5	71					
	109.2	30.34	23.2	70.4					
100-50	60	16.8	56	63	47.2	65	22	2890	3.4
	100	27.8	50	72					
	180	33.3	44	71					
100-50A	54.6	15.17	46.5	60.1	47.2	65	22	2890	3.4
	91	41.5	41.5	70					
	109.2	36.6	36.6	68					
100-80	60	16.7	88	51	92.3	70	45	2890	3
	100	27.8	80	68					
	180	74	74	67					
100-80A	56.1	15.58	77	54	77.3	70	37	2890	3
	93.5	25.97	70	65					
	112.2	31.16	64.7	64					

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# Configuration Drawings

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Model	Capacity		Head m	Effi %	Current A	Noise Dba	Motor HP kw	Speed r/min	NPSHr (m)
	m3/h	L/S							
150-20	110	30.6	22	70	33.2	60	15	2900	4
	160	44.4	20	76					
	200	55.6	17	78					
150-20A	105	29.2	18	68	24.8	60	11	2900	4
	150	41.7	16	74					
	187	51.9	13	74					
150-32	110	30.6	36.5	70	47.2	65	22	2900	4
	160	44.4	32	75					
	200	55.6	26	74					
150-32A	105	29.2	31	64	40.8	65	18.5	2900	4
	150	41.7	28	73					
	187	51.9	24	72					
150-50	110	30.6	54	72	77.3	65	37	2900	4
	160	44.4	50	77					
	200	55.6	44	78					
150-50A	105	29.2	47	70	63.7	65	30	2900	4
	150	41.7	44	75					
	187	51.9	39	76					
150-80	110	30.6	87	70	103	80	55	2900	4
	160	44.4	80	75					
	200	55.6	68	77					
150-80A	105	29.2	76	67	92.3	65	45	2900	4
	150	41.7	70	73					
	187	51.9	59	74					
150-20(I)	140	38.9	22	70	40.8	65	18.5	2900	4.5
	200	55.6	20	80					
	240	66.7	17	77					
150-20(I)A	127	35.4	19.8	72	33.3	65	15	2900	4.5
	182	50.6	18	78					
	218	60.7	15.3	75					
150-32(I)	140	38.9	33.8	63	63.7	65	30	2900	4.5
	200	55.6	32	71					
	240	66.7	28.5	68					
150-32(I)A	127	35.4	30.4	71	47.2	65	22	2900	4.5
	182	50.6	28.8	78.5					
	218	60.7	25.5	78.5					
150-50(I)	140	38.9	53	67	92.3	65	45	2900	4.5
	200	55.6	50	75					
	240	66.7	46	73					
150-50(I)A	127	35.4	47	66	77.3	65	37	2900	4.5
	182	50.6	44.5	74					
	218	60.7	41	72					
150-80(I)	140	38.9	83	61	164	80	90	2900	4.5
	200	55.6	80	69					
	240	66.7	75	67					
150-80(I)A	127	35.4	73	59	140	80	75	2900	4.5
	182	50.6	70.5	67					
	218	60.7	66	65					
200-20	210	58.33	23	71	63.7	65	30	2900	4.8
	300	83.33	20	79					
	360	100	18	78					
200-20A	200	55.53	20.8	70	47.2	65	22	2900	4.8
	286	79.33	18.1	77					
	343	95.19	16.3	76					
200-32	210	58.33	34	70	92.3	70	45	2900	4.8
	300	83.33	32	78					
	360	100	30.5	77					
200-32A	200	55.3	30.8	69	77.3	70	37	2900	4.8
	286	79.33	29	77					
	343	95.19	27.6	76					

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# Configuration Drawings

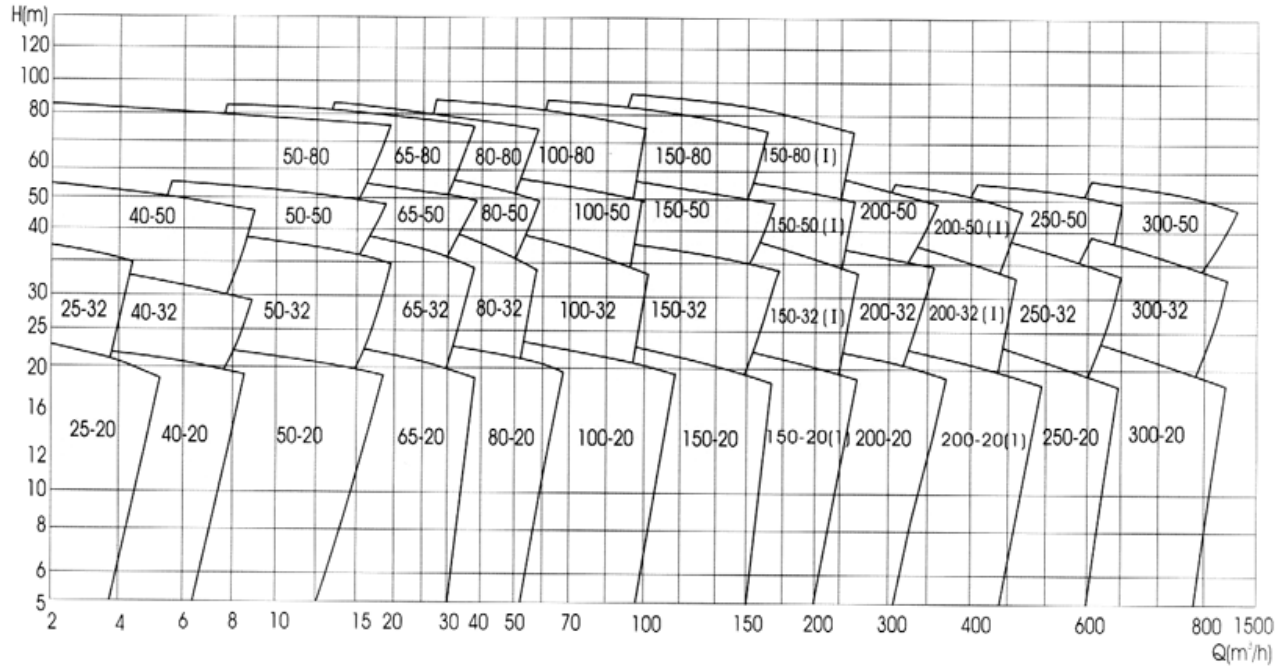
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Model	Capacity		Head m	Effi %	Current A	Noise Dba	Motor HP kw	Speed r/min	NPSHr (m)
	m3/h	L/S							
200-50	210	58.83	54	69	103	80	55	2900	4.8
	300	83.33	50	76					
	360	100	40	72					
200-50A	200	55.53	48	68	103	80	55	2900	4.8
	286	79.33	44.5	74					
	343	95.19	35.5	70					
200-20(I)	280	77.8	22	73	63.7	65	30	2900	4.5
	400	111.1	20	82					
	480	133.3	17	78.5					
200-20(I)A	258	71.6	19.5	72	47.2	65	22	2900	4.5
	368	102.2	17	81					
	442	122.7	13.5	77.5					
200-32(I)	280	77.8	35	73	103	80	55	2900	4.5
	400	111.1	32	80					
	480	133.3	27.5	76					
200-32(I)A	258	71.6	30.5	68	92.3	65	45	2900	4.5
	368	102.2	27.5	75					
	442	122.7	23.5	71					
200-50(I)	280	77.8	54	75	140	80	75	2900	4.5
	400	111.1	50	81					
	480	133.3	44	77					
200-50(I)A	258	71.6	47.5	74	140	80	75	2900	4.5
	368	102.2	44	80					
	442	122.7	38	76					
250-20	400	111.1	22	76	92.3	65	45	1450	4.5
	550	152.8	20	82					
	660	183.3	18	78					
250-20A	368	102.2	19.4	74	77.3	65	37	1450	4.5
	506	140.6	17.6	80					
	607	168.7	15.8	76					
250-32	400	111.1	34	74	140	80	75	1450	4.5
	550	152.8	32	80					
	660	183.3	26	75					
250-32A	368	102.2	30	71	103	80	55	1450	4.8
	506	140.6	28	79					
	607	168.7	23	78					
250-50	400	111.1	54	69	201	80	110	1450	4.8
	550	152.8	50	76					
	660	183.3	40	72					
250-50A	365	101.4	47	67	164	90	90	1450	4.8
	500	138.8	44	74					
	610	169.4	36	73					
300-20	500	138.9	22	78	103	80	55	1450	4.8
	720	200	20	83					
	830	238.9	16	77					
300-20A	460	127.8	20	75	92.3	65	45	1450	4.8
	662	184	17.6	84					
	791	219.8	14.1	77					
300-32	500	138.9	35	76	164	80	0	1450	4.8
	720	200	32	82					
	830	238.9	27	76					
300-32A	460	127.8	30.5	74	140	80	75	1450	4.8
	662	184	28	80					
	791	219.4	23.5	74					
300-50	500	138.9	54	75	220	80	132	1450	4.8
	720	200	50	80					
	860	238.9	42	78					
300-50A	460	127.8	47	74	201	80	110	1450	4.8
	662	184	43.5	79					
	791	219.8	36.6	77					

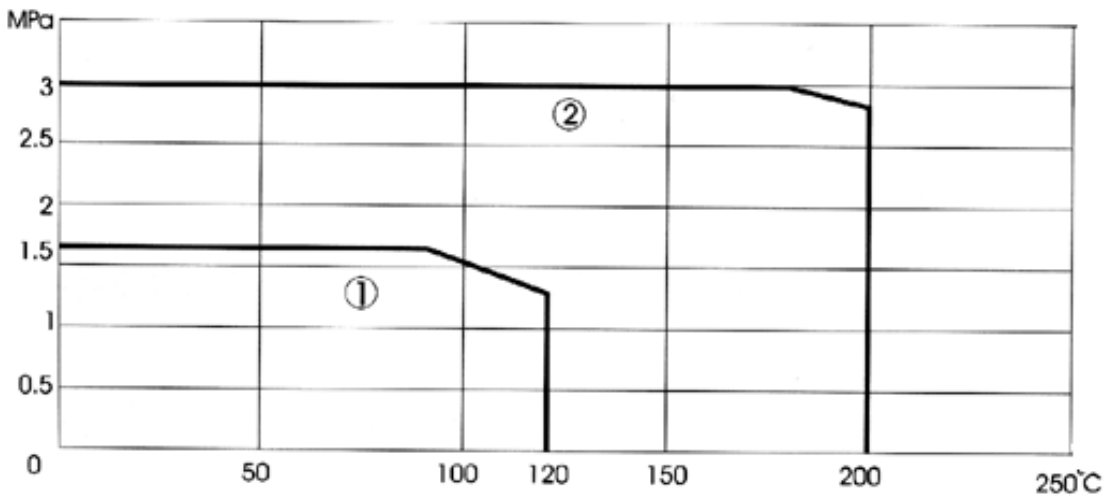
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# Family Curves

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## Pressure & Temperature Curves



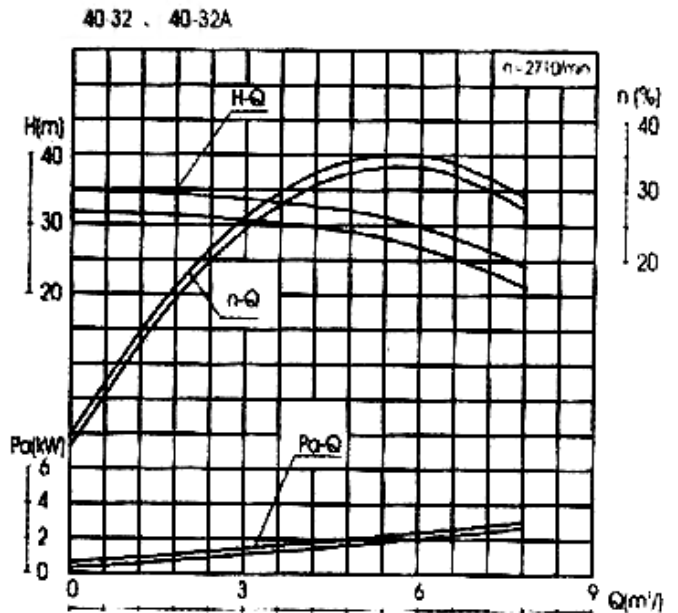
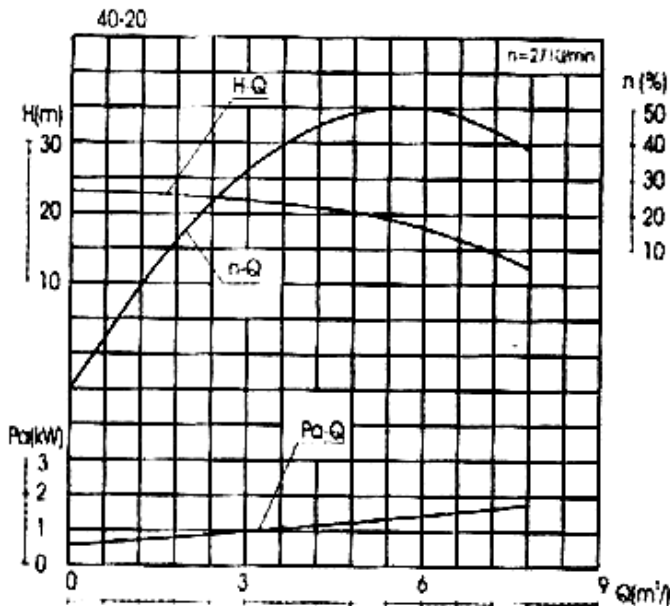
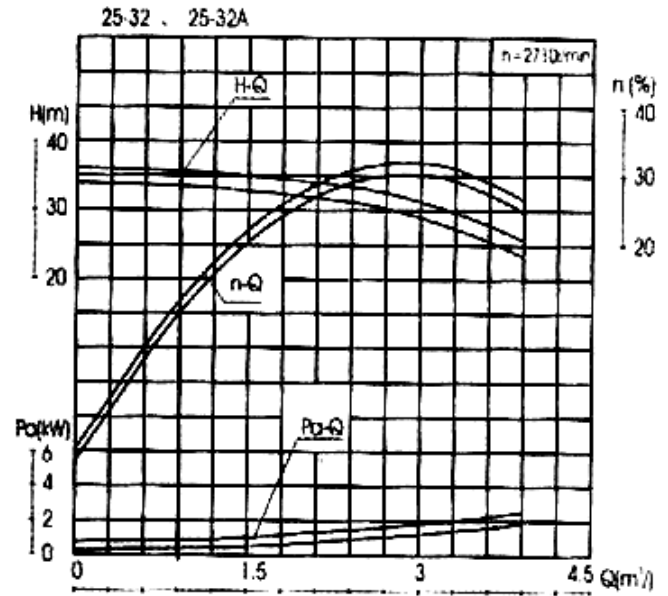
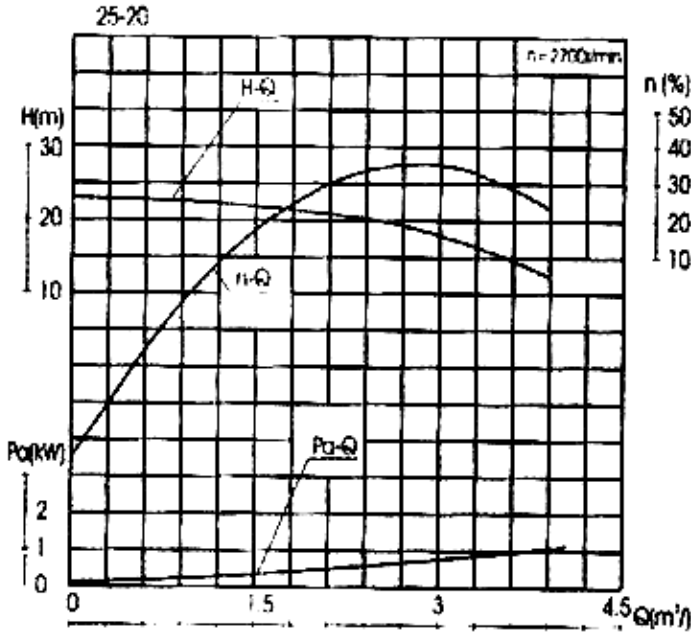
(1) Standard  
(2) Special

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# Performance Curves

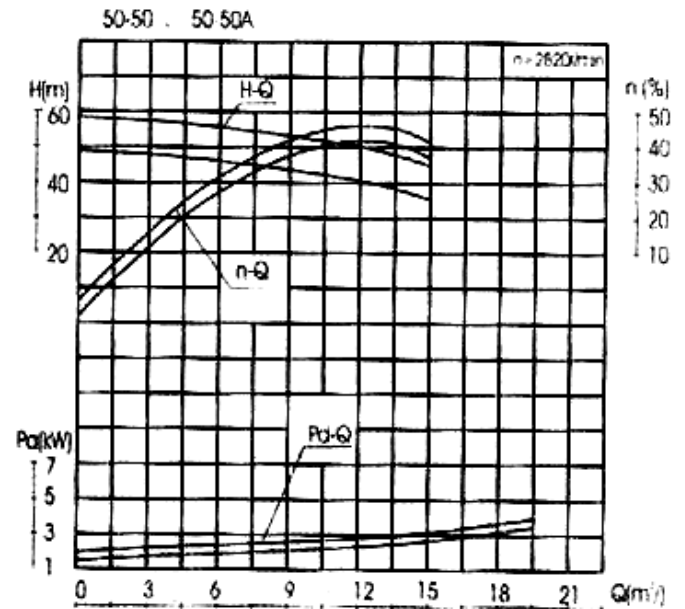
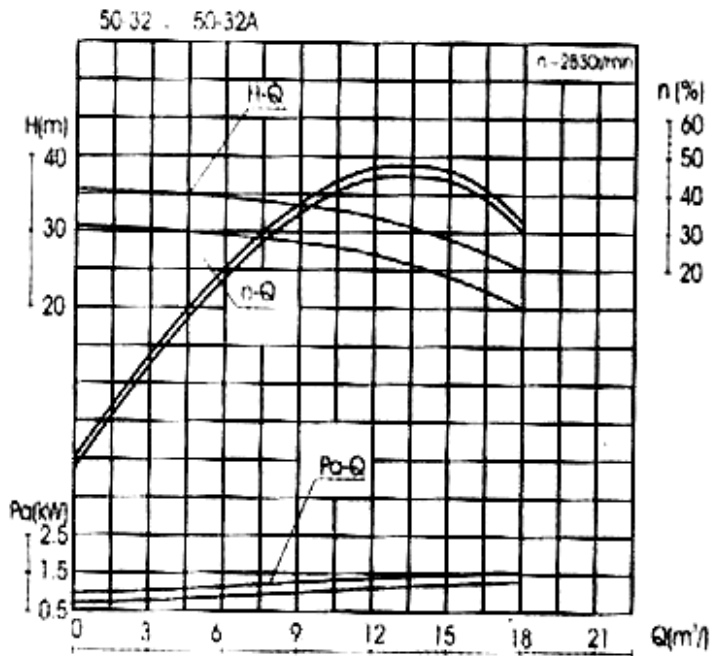
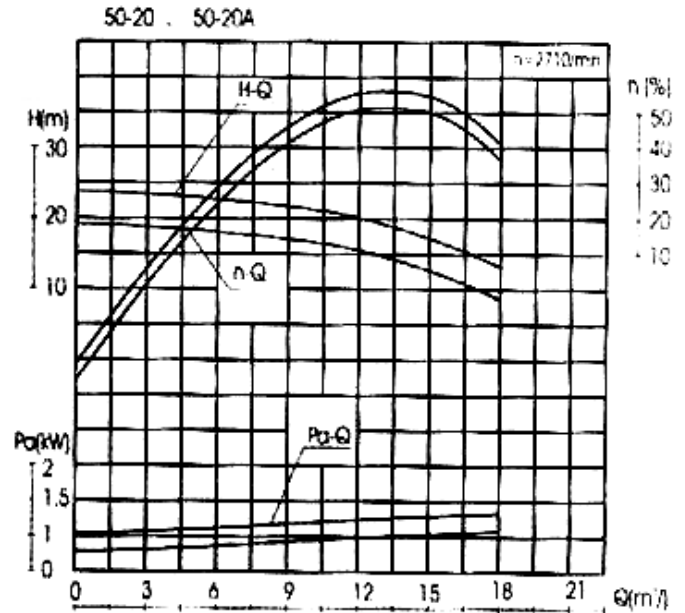
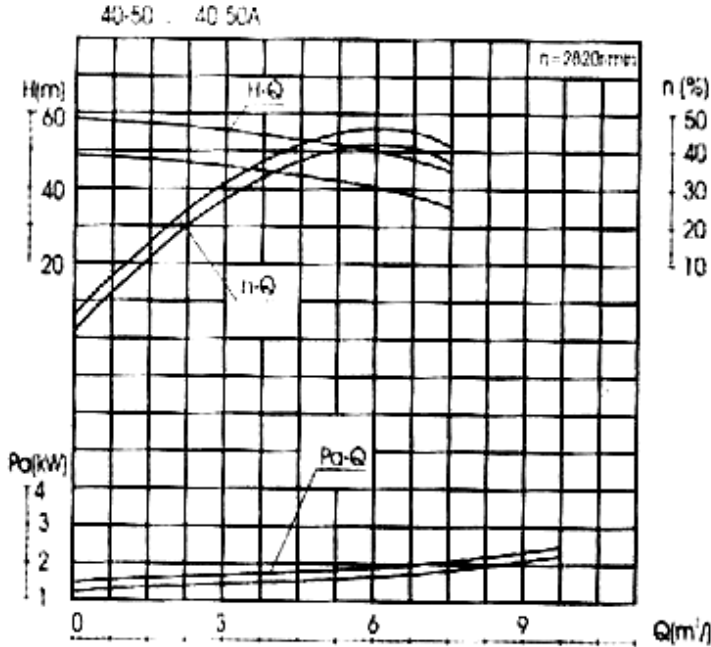
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# Performance Curves

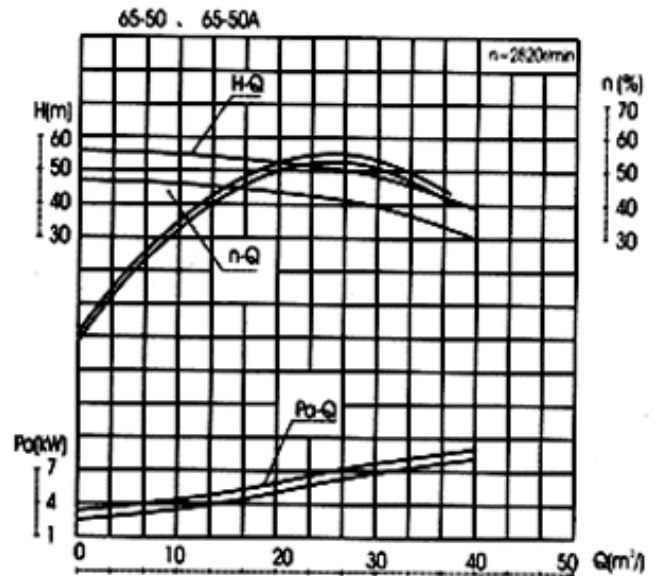
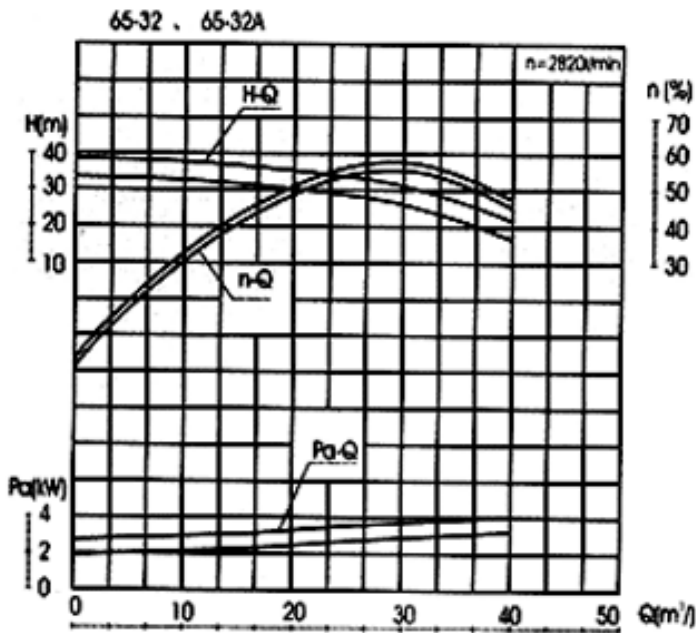
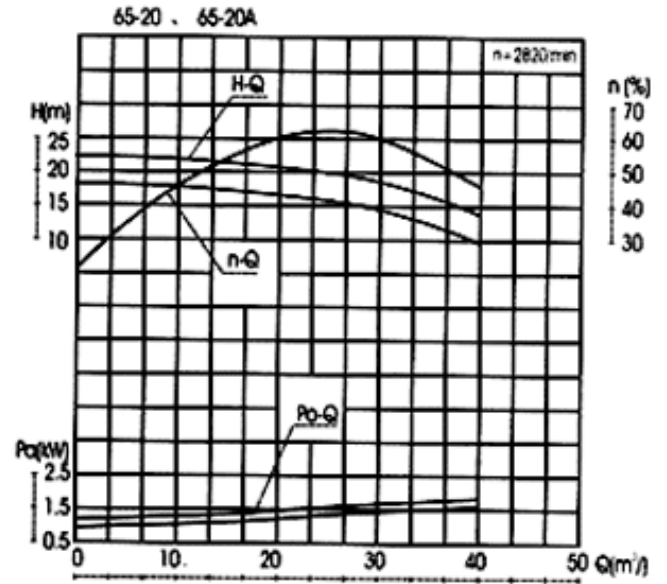
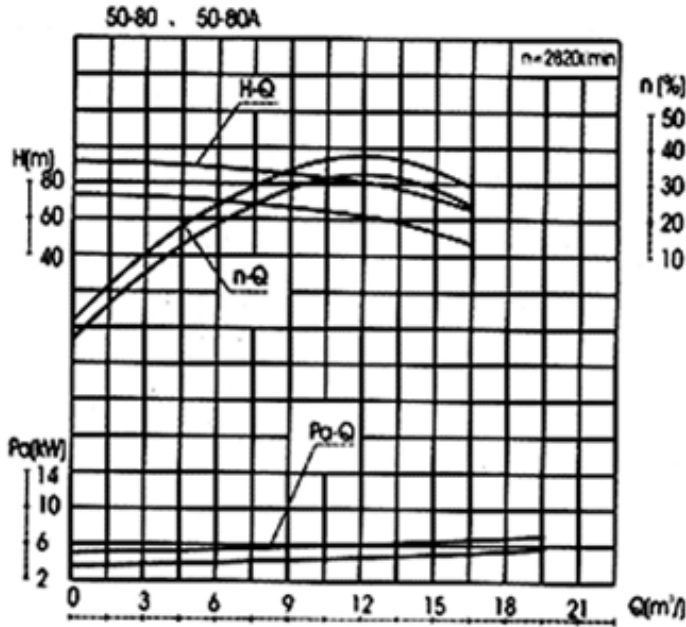
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# Performance Curves

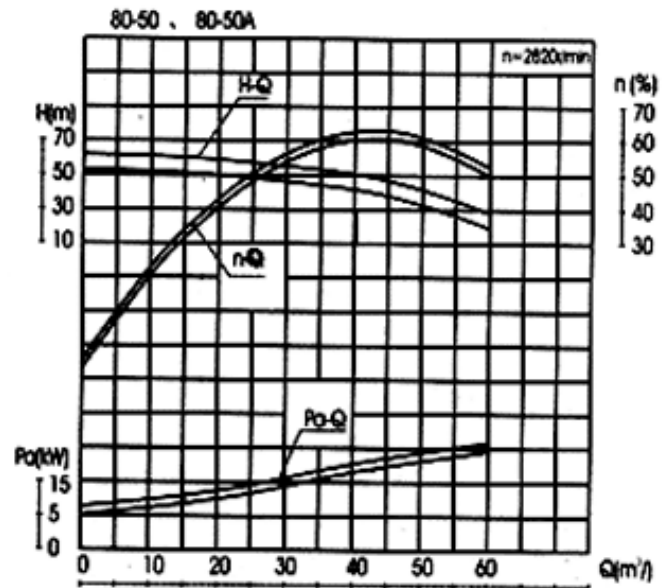
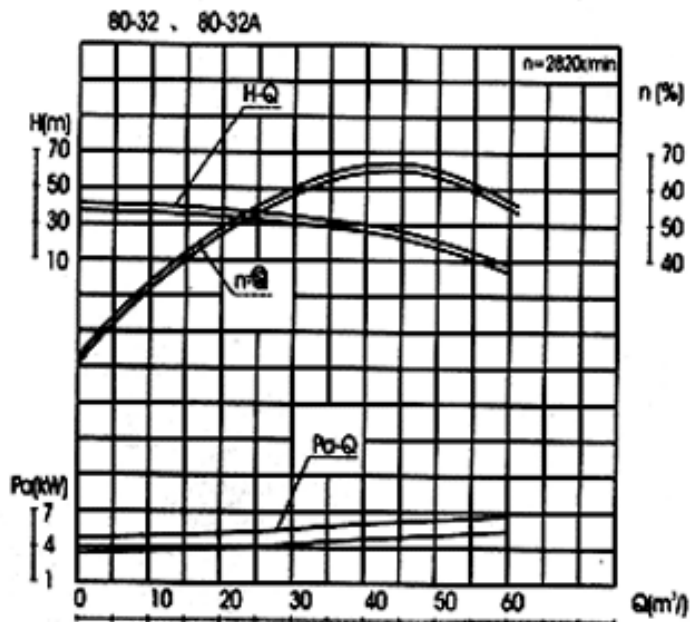
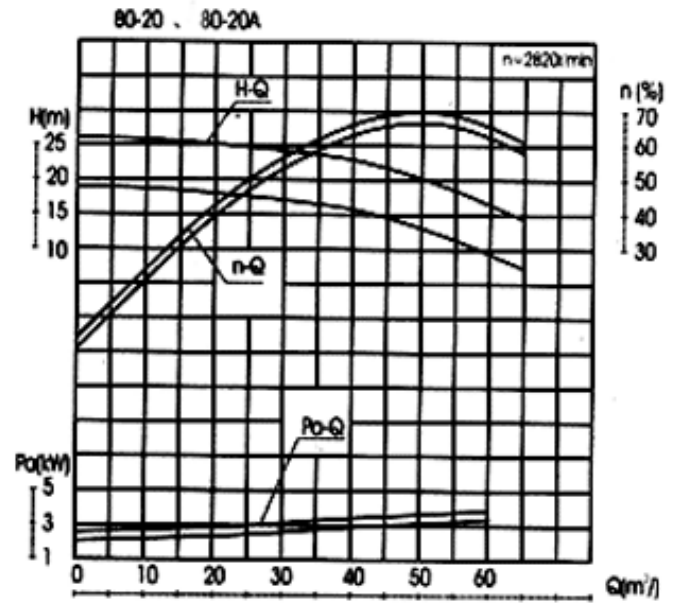
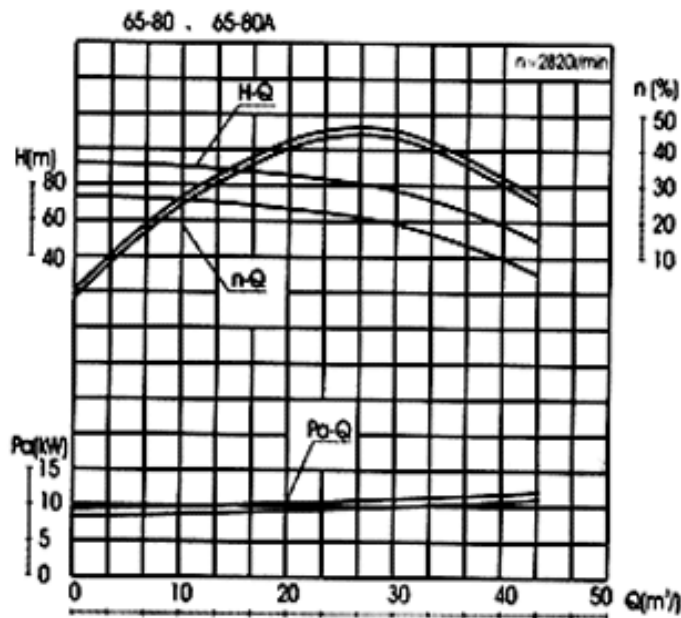
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# Performance Curves

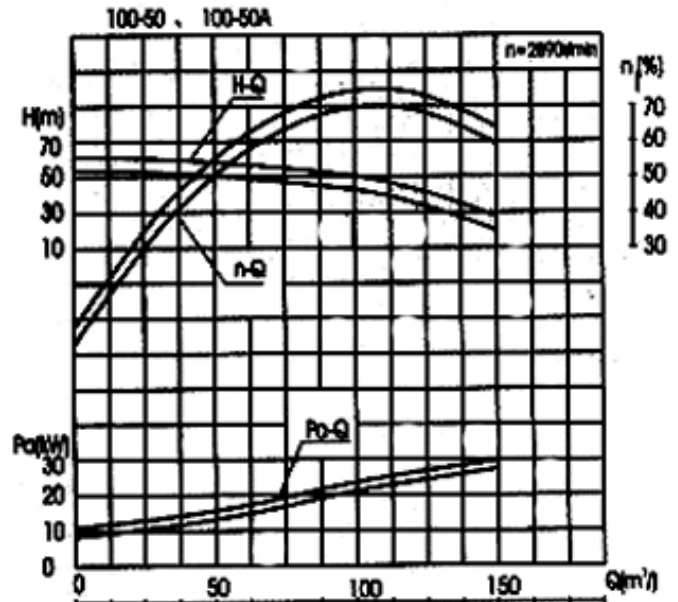
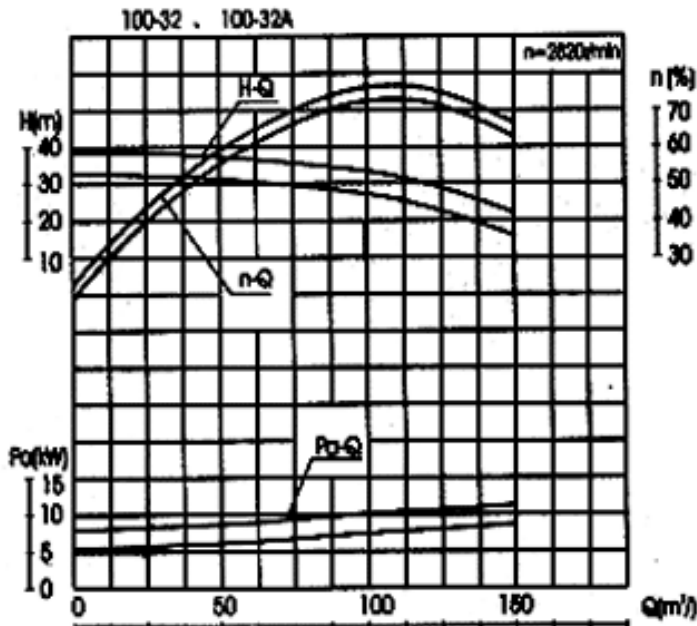
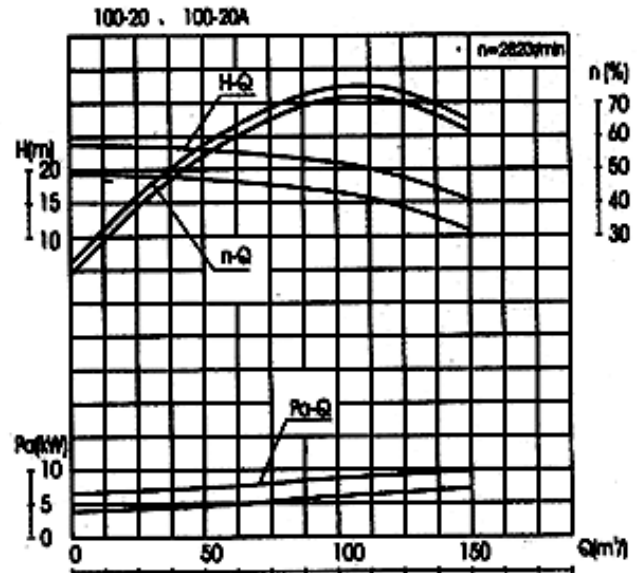
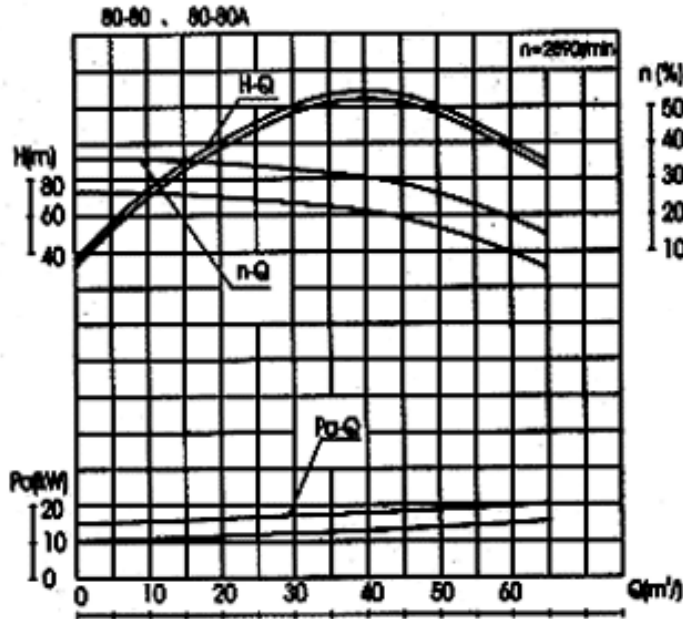
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# Performance Curves

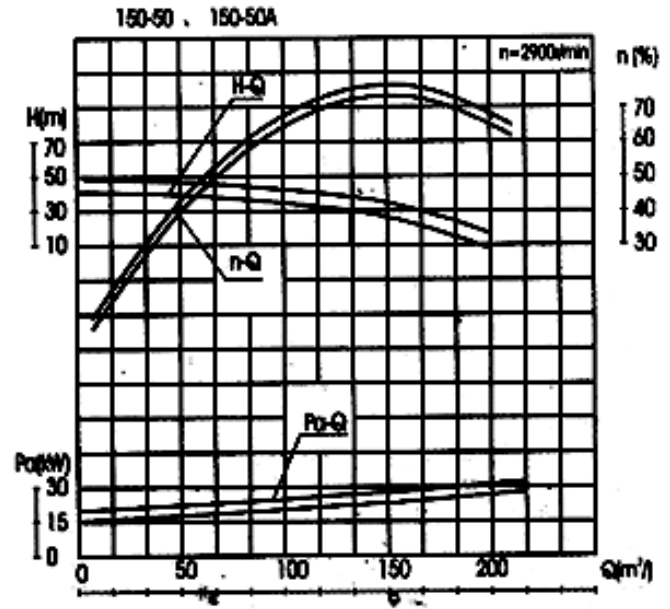
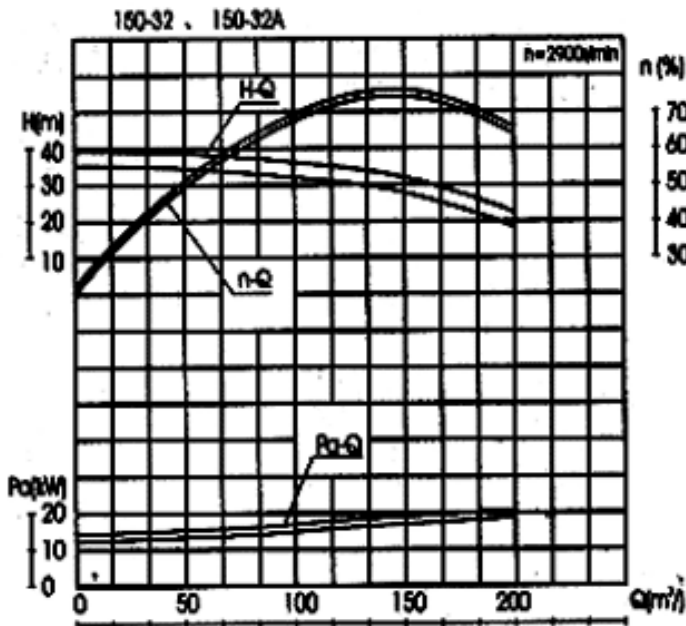
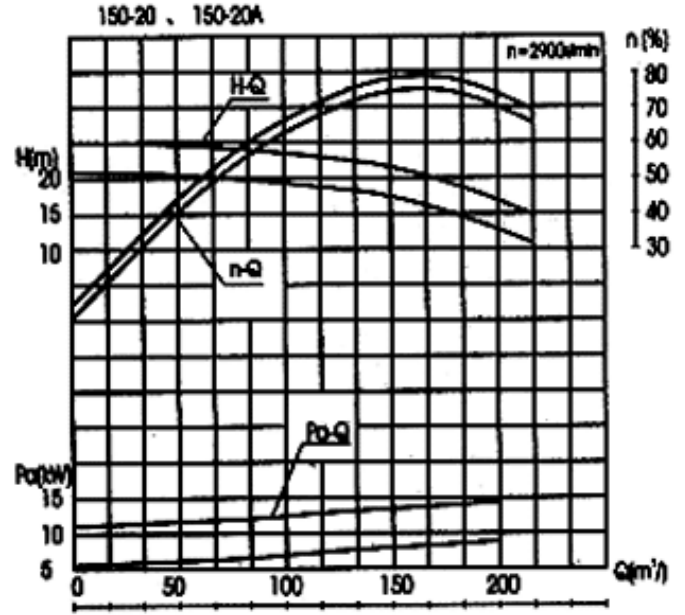
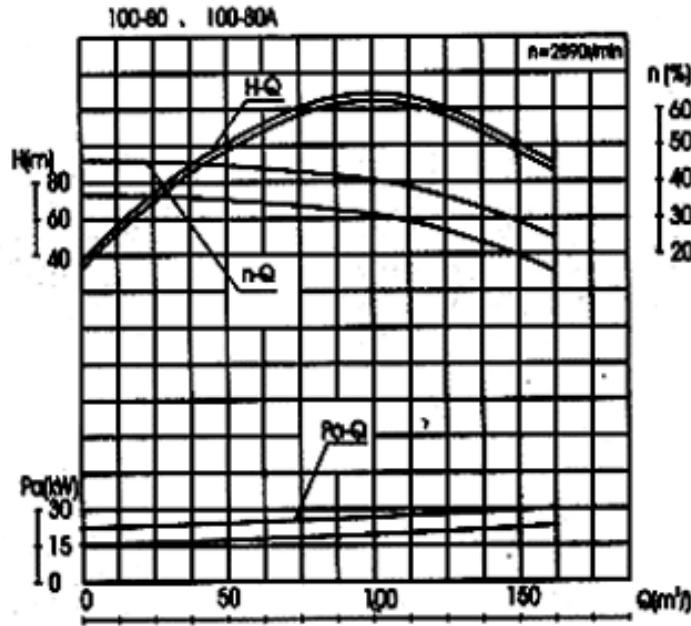
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# Performance Curves

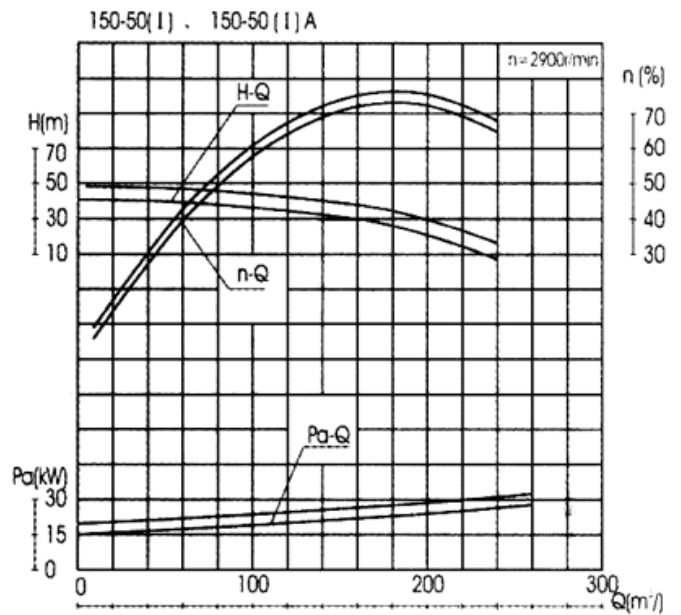
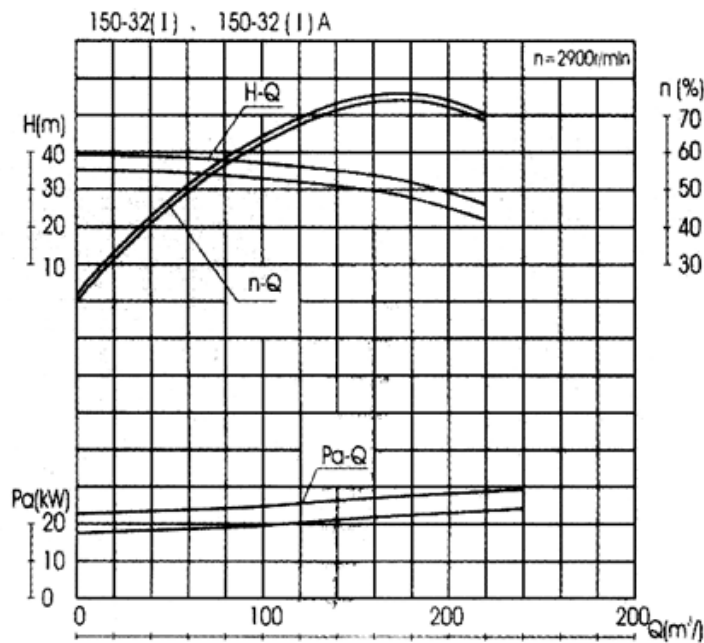
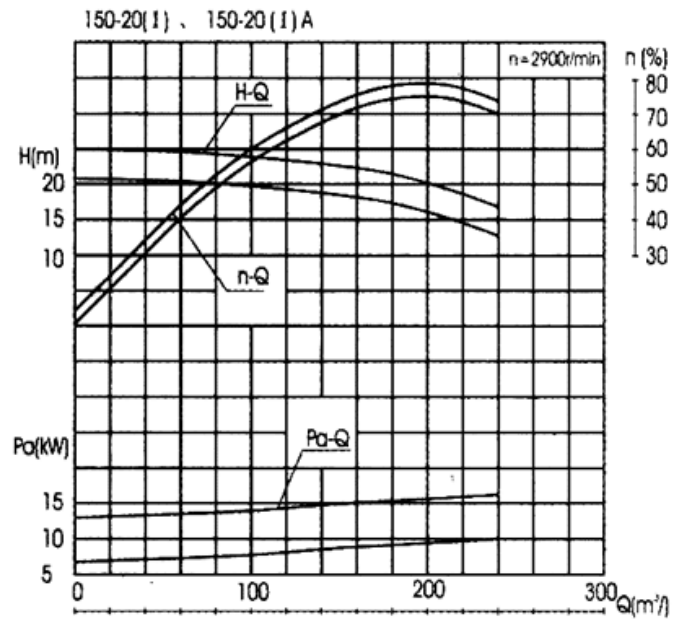
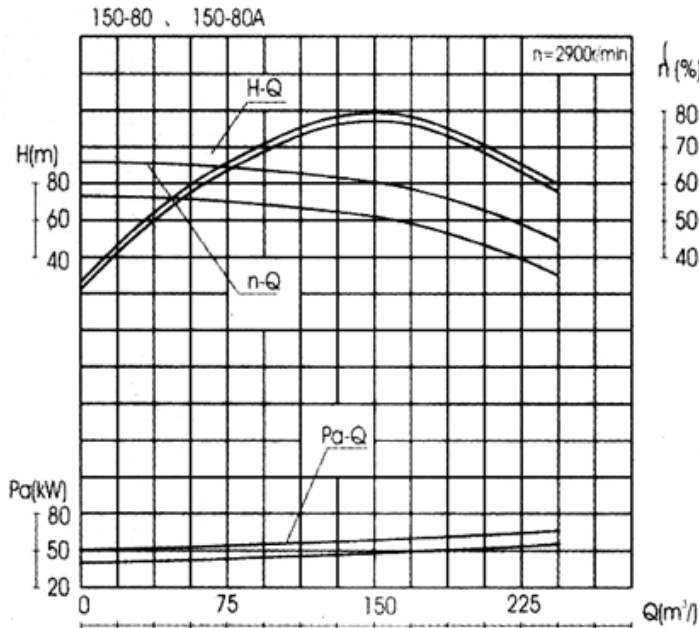
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# Performance Curves

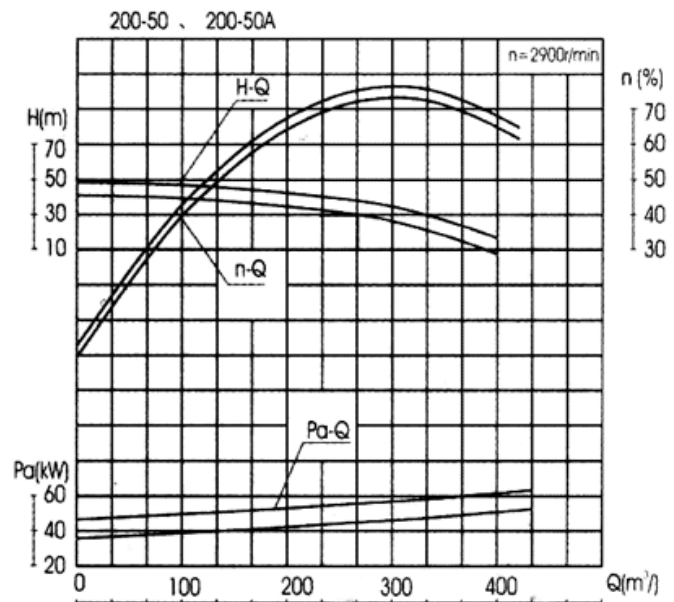
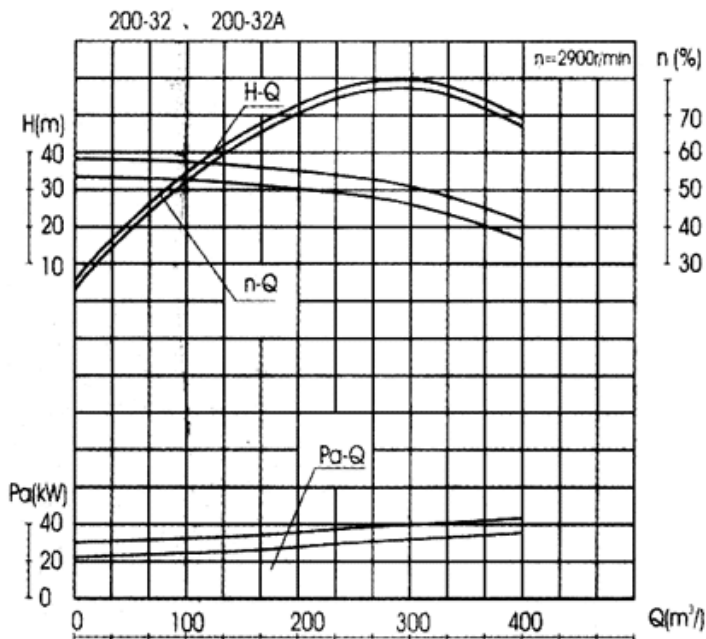
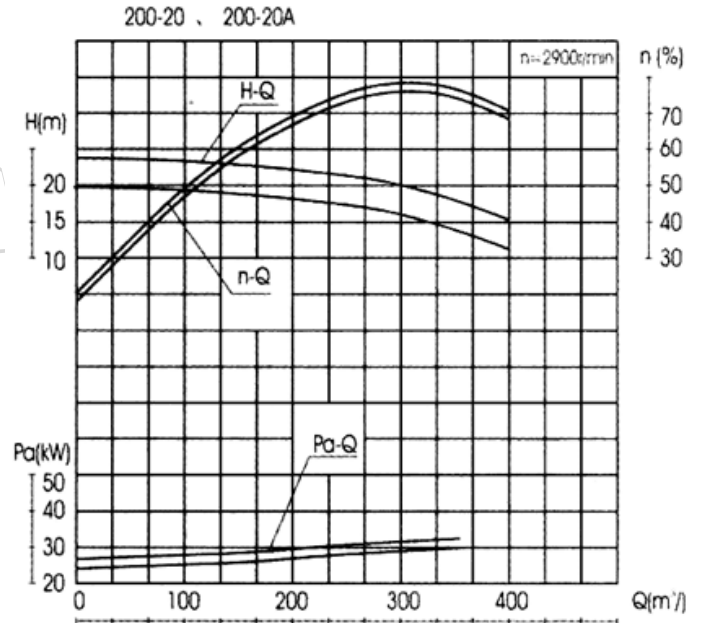
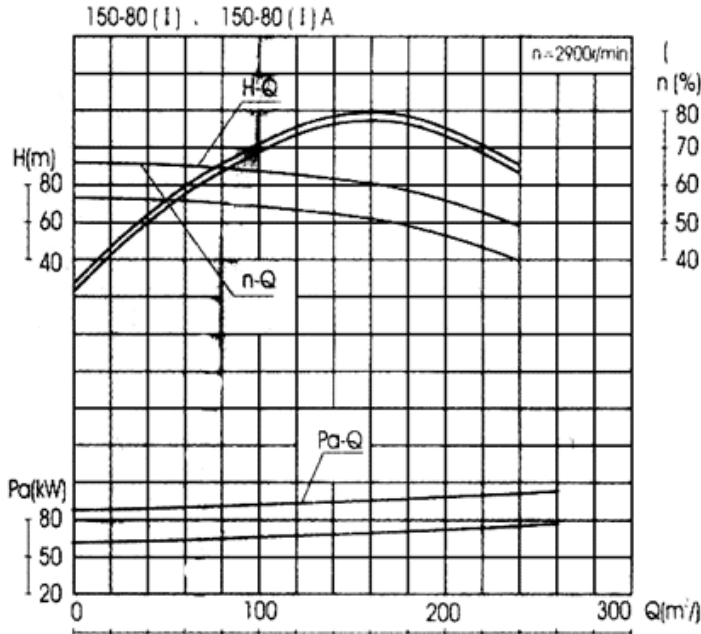
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# Performance Curves

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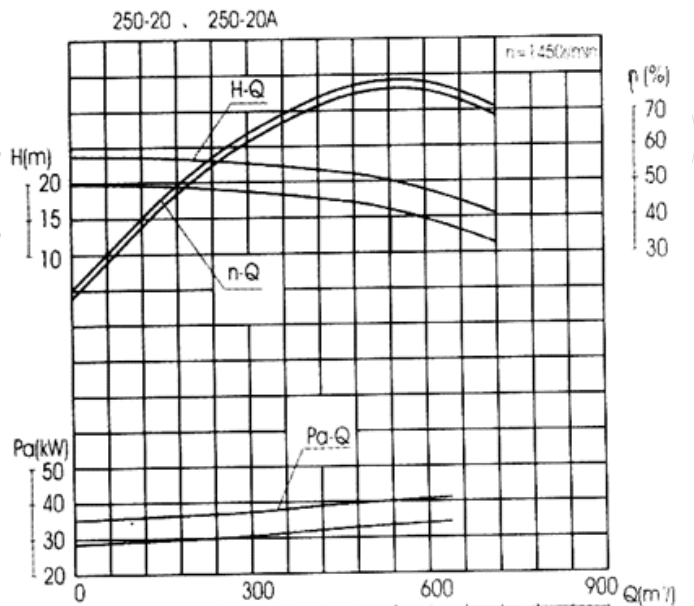
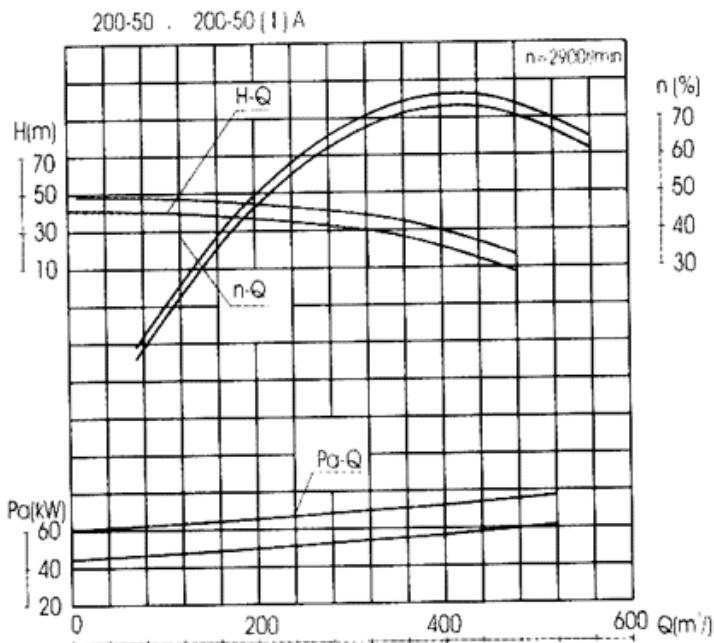
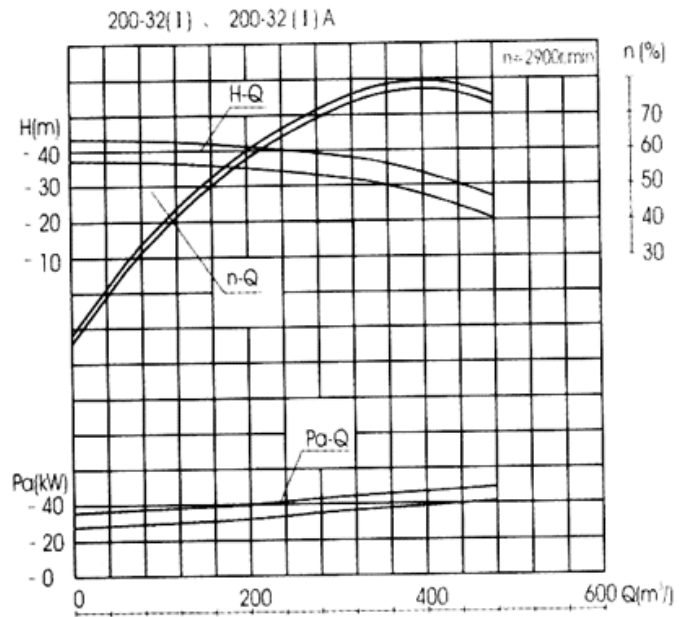
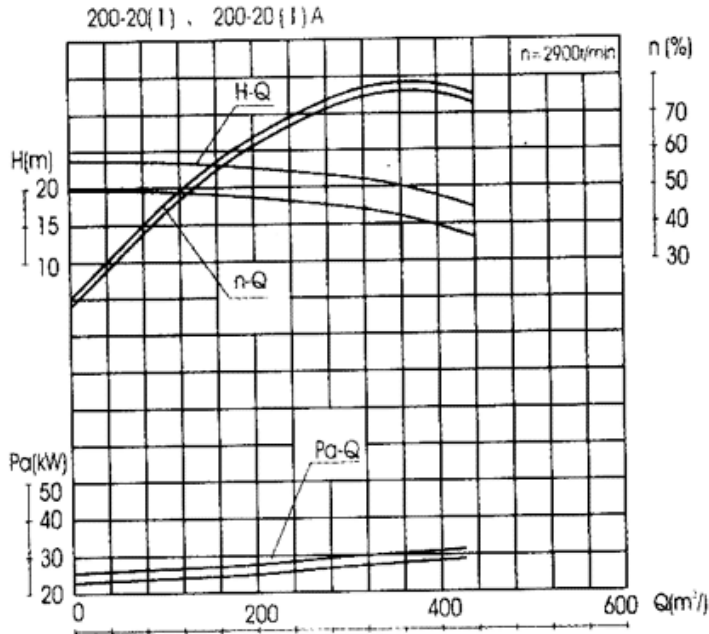


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# Performance Curves

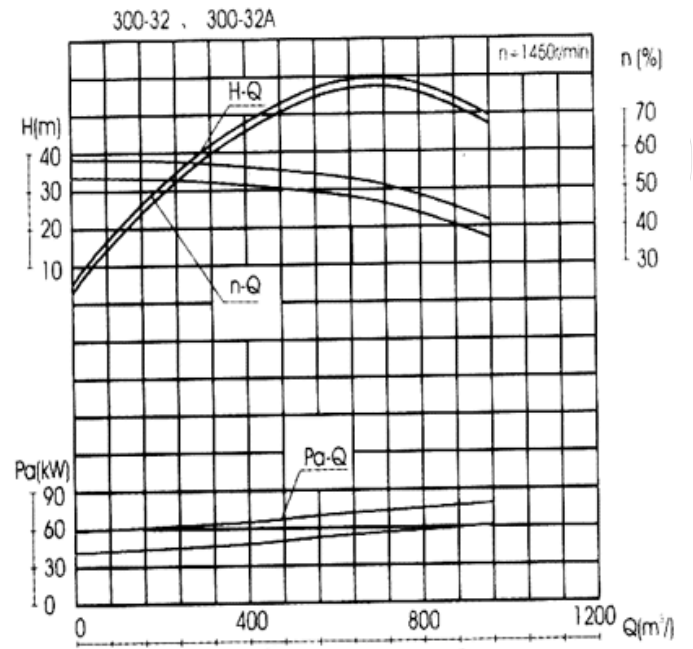
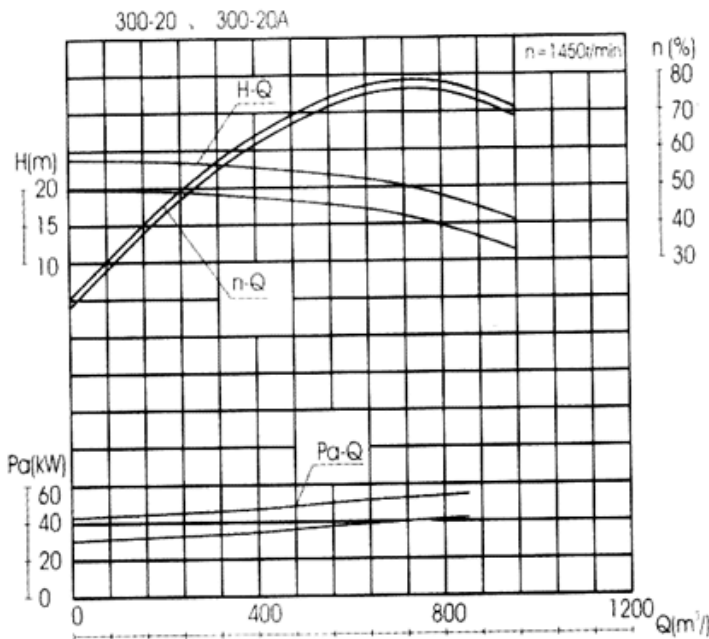
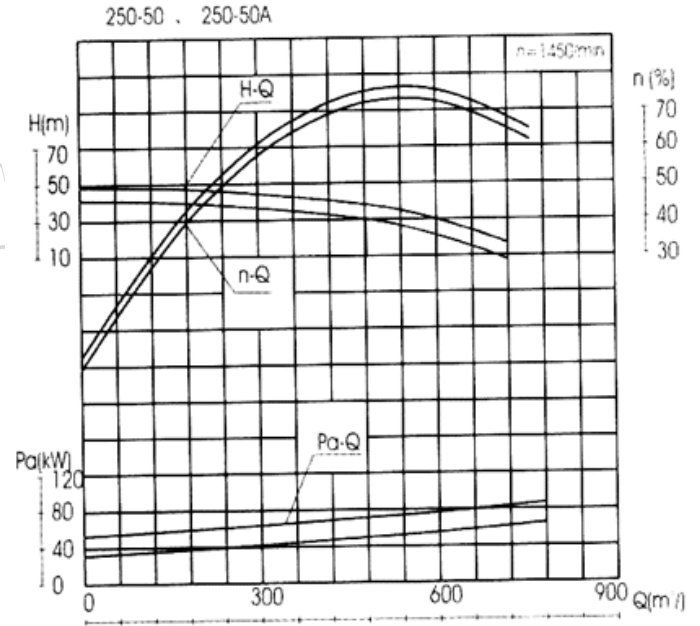
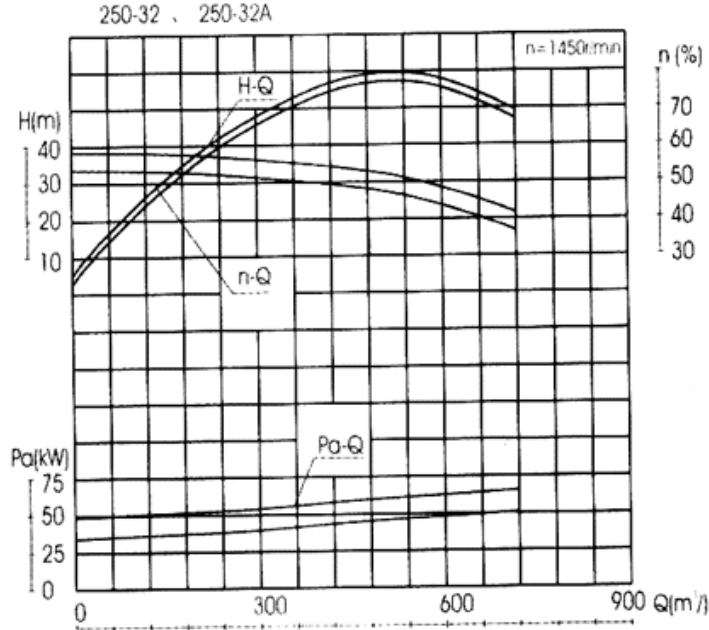
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# Performance Curves

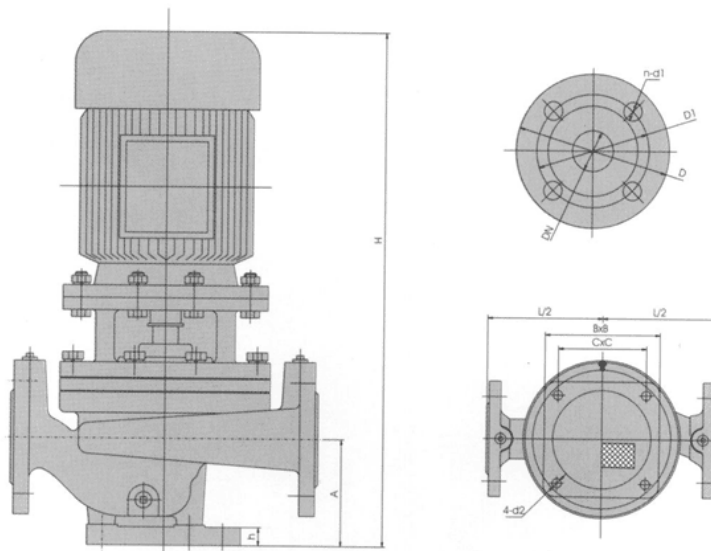
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# Installation Drawings & Dimensions

## Type DFLH

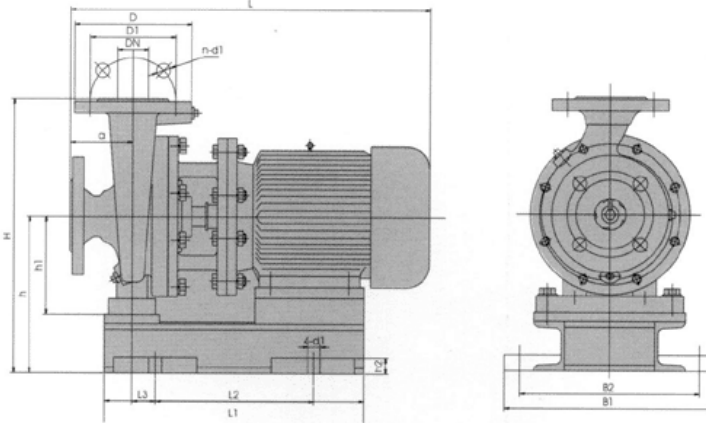


V-FLO LIMITED

Model	Outline Dimensions (mm)				Flange Dimensions (mm)				Baseplate (mm)		
	A	L	H	h	D	D1	DN	n-d1	B	C	4-d2
25-20	95	280	H	20	115	85	25	4-f14	140	105	4-f12
25-32	95	320	507	20	115	85	25	4-f18	140	105	4-f12
40-20	105	300	517	20	150	110	40	4-f18	150	115	4-f12
40-32	115	340	551	20	150	110	40	4-f18	150	115	4-f12
40-50	115	360	638	20	150	110	40	4-f18	150	115	4-f12
50-20	120	300	557	22	165	125	50	4-f18	165	130	4-f14
50-32	130	340	620	22	165	125	50	4-f18	165	130	4-f14
50-50	130	400	683	22	165	125	50	4-f18	185	150	4-f14
50-80	130	450	830	22	165	125	50	4-f18	185	150	4-f14
65-20	130	340	620	22	185	145	65	4-f18	185	150	4-f14
65-32	130	380	683	22	185	145	65	4-f18	185	150	4-f14
65-50	150	420	845	22	185	145	65	4-f18	185	150	4-f14
65-80	150	480	847	28	200	160	80	4-f18	185	150	4-f16
80-20	150	400	703	28	200	160	80	8-f18	200	165	4-f16
80-32	150	440	742	28	200	160	80	8-f18	200	165	4-f16
80-50	150	470	842	28	200	160	80	8-f18	200	165	4-f16
80-80	170	540	1028	28	220	180	100	8-f18	220	165	4-f18
100-20	170	480	878	28	220	180	100	8-f18	220	185	4-f18
100-32	170	500	875	28	220	180	100	8-f18	220	185	4-f18
100-50	170	530	1040	28	220	180	100	8-f18	220	185	4-f18
100-80	180	570	1070	30	220	180	100	8-f18	260	220	4-f20
150-20	200	560	905	30	285	240	150	8-f22	260	220	4-f20
150-32	200	560	992	30	285	240	150	8-f22	260	220	4-f20
150-50	200	600	1059	30	285	240	150	8-f22	260	220	4-f20
150-20(I)	200	560	905	30	285	240	150	8-f22	260	220	4-f20
150-32(I)	200	560	992	30	285	240	150	8-f22	260	220	4-f20
150-50(I)	200	600	1059	30	285	240	150	8-f22	260	220	4-f20
200-20	230	550	110	30	340	295	200	12-f22	280	240	4-f22
200-32	230	670	1135	30	340	295	200	12-f22	280	240	4-f22

**Installation Drawings & Dimensions**

**Type DFWH**



V-FLO PUMPS

V-FLO LIMITED

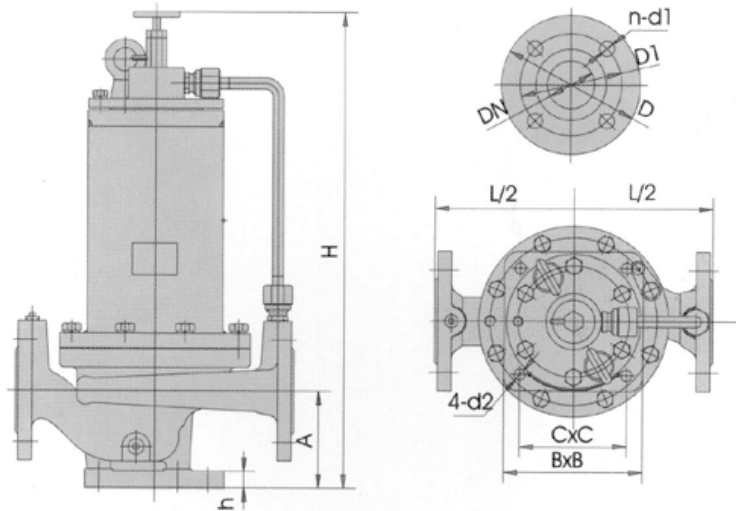
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Pump Model	Outline Dimensions					Flange Dimensions				Baseplate					
	L	H	a	h	h1	D	D1	DN	n-d1	B1	B2	L1	L2	L3	4-d2
25-20	473	340	80	200	125	115	85	25	4-f14	270	230	325	195	20	4-f18
25-32	492	380	80	220	145	115	85	25	4-f14	300	260	330	200	20	4-f18
40-20	492	350	80	200	125	150	110	40	4-f18	270	230	330	200	20	4-f18
40-32	531	390	95	220	145	150	110	40	4-f18	300	260	355	225	20	4-f18
40-50	643	399	132	239	219	150	110	40	4-f18	390	340	435	275	20	4-f18
50-20	527	355	90	205	130	165	125	50	4-f18	270	230	355	225	20	4-f18
50-32	585	400	95	230	155	165	125	50	4-f18	300	260	395	265	20	4-f18
50-50	658	470	105	270	175	165	125	50	4-f18	390	340	435	275	20	4-f22
50-80	805	530	105	305	210	165	125	50	4-f18	430	380	555	395	20	4-f22
65-20	580	395	90	225	150	185	145	65	4-f18	270	230	395	265	20	4-f18
65-32	643	420	90	230	155	185	145	65	4-f18	300	260	425	295	20	4-f18
65-50	810	490	115	280	185	185	145	65	4-f18	390	340	550	390	20	4-f22
65-80	817	545	120	305	210	185	145	65	4-f18	430	380	550	390	20	4-f22
80-20	648	425	95	225	150	200	160	80	8-f18	270	230	425	295	20	4-f18
80-32	687	470	95	250	175	200	160	80	8-f18	300	260	460	330	20	4-f18
80-50	792	515	100	280	185	200	160	80	8-f18	390	340	550	390	20	4-f22
80-80	978	565	120	295	200	200	160	80	8-f18	430	380	680	520	20	4-f22
100-20	818	480	110	250	175	220	180	100	8-f18	300	260	550	420	20	4-f18
100-32	815	500	110	250	175	220	180	100	8-f18	300	260	550	420	20	4-f18
100-50	980	560	110	295	200	220	180	100	8-f18	390	340	695	535	20	4-f22
100-80	1010	590	120	305	210	220	180	100	8-f18	430	380	700	540	20	4-f22
150-20	830	555	125	275	200	285	240	150	8-f22	300	260	550	420	20	4-f18
150-32	922	555	130	275	200	285	240	150	8-f22	300	260	605	475	20	4-f18
150-50	989	605	130	305	210	285	240	150	8-f22	390	340	685	525	20	4-f22
150-80	1130	635	130	305	220	285	240	150	8-f22	430	380	550	390	20	4-f22
150-20(I)	830	555	125	275	200	285	240	150	8-f22	300	260	550	420	20	4-f18
150-32(I)	922	555	130	275	200	285	240	150	8-f22	300	260	605	475	20	4-f18
150-50(I)	989	605	130	305	210	285	240	150	8-f22	390	340	685	525	20	4-f22
150-80(I)	1130	635	130	305	220	285	240	150	8-f22	430	380	550	390	20	4-f22
200-20	1072	570	140	295	220	340	295	200	12-f22	300	260	840	710	20	4-f18
200-32	1122	670	140	335	240	340	295	200	12-f22	390	340	895	735	20	4-f22
200-50	1248	900	140	450	315	340	295	200	12-f22	430	380	880	670	20	4-f22
200-20(I)	1072	570	140	295	220	340	295	200	12-f22	300	260	840	710	20	4-f18
200-32(I)	1122	670	140	335	240	340	295	200	12-f22	390	340	895	735	20	4-f22
200-50(I)	1248	900	140	450	315	340	295	200	12-f22	430	380	880	670	20	4-f22
250-20	1050	900	210	450	350	405	355	250	12-f26	730	670	690	590	20	4-f28
250-32	1102	950	210	450	350	405	355	250	12-f26	730	670	750	650	20	4-f28
250-50	1248	900	210	450	350	405	355	250	12-f26	730	670	880	670	20	4-f28
300-20	1177	1050	250	450	350	405	410	300	12-f26	730	670	770	670	20	4-f28
300-32	1307	1050	250	450	350	405	410	300	12-f26	730	670	770	670	20	4-f28
300-50	1325	1100	250	450	350	405	410	300	12-f26	730	670	770	670	20	4-f28

# Installation Drawings & Dimensions

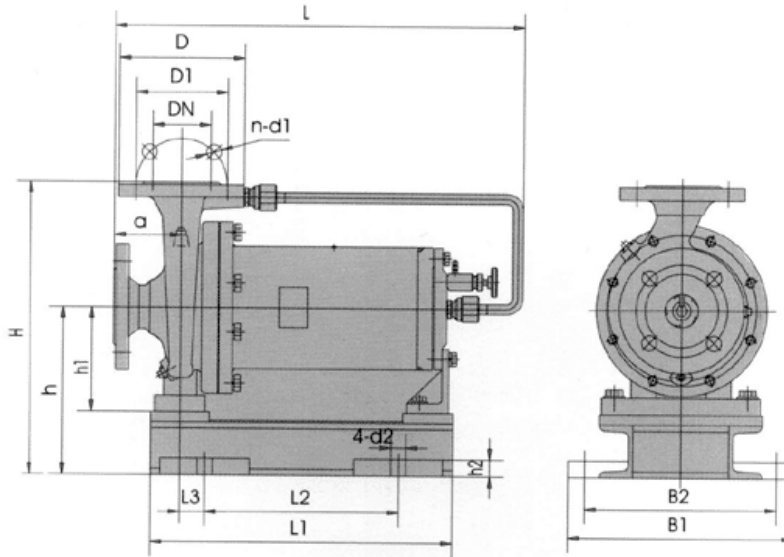
## Type DFLPH



Pump Model	Outline Dimensions (mm)				Flange (mm)				Baseplate (mm)		
	A	L	H	h	D	D1	DN	n-d1	B	C	4-D2
25-20	95	280	503	20	115	85	25	4-φ14	140	105	4-φ12
25-32	95	320	562	20	115	85	25	4-φ18	140	105	4-φ12
40-20	105	300	572	20	150	110	40	4-φ18	150	115	4-φ12
40-32	115	340	581	20	150	110	40	4-φ18	150	115	4-φ12
40-50	115	360	638	20	150	110	40	4-φ18	150	115	4-φ12
50-20	120	300	587	22	165	125	50	4-φ18	165	130	4-φ14
50-32	130	340	681	22	165	125	50	4-φ18	165	130	4-φ14
50-50	130	400	741	22	165	125	50	4-φ18	185	150	4-φ14
50-80	130	450	827	22	165	125	50	4-φ18	185	150	4-φ14
65-20	130	340	681	22	185	145	65	4-φ18	185	150	4-φ14
65-32	130	380	741	22	185	145	65	4-φ18	185	150	4-φ14
65-50	150	420	842	22	185	145	65	4-φ18	185	150	4-φ14
65-80	150	480	919	28	185	145	65	4-φ18	185	150	4-φ16
80-20	150	400	761	28	200	160	80	8-φ18	200	165	4-φ16
80-32	150	440	857	28	200	160	80	8-φ18	200	165	4-φ16
80-50	150	470	914	28	200	160	80	8-φ18	200	165	4-φ16
80-80	170	540	1008	28	200	160	80	8-φ18	220	165	4-φ18
100-20	170	480	875	28	220	180	100	8-φ18	220	185	4-φ18
100-32	170	500	947	28	220	180	100	8-φ18	220	185	4-φ18
100-50	170	530	1020	28	220	180	100	8-φ18	220	185	4-φ18
100-80	180	570	1120	30	220	180	100	8-φ18	220	220	4-φ20
150-20	200	560	977	30	285	240	150	8-φ22	260	220	4-φ20
150-32	200	560	1052	30	285	240	150	8-φ22	260	220	4-φ20
150-50	200	600	1144	30	285	240	150	8-φ22	260	220	4-φ20
150-20 (I)	200	560	977	30	285	240	150	8-φ22	260	220	4-φ20
150-32 (I)	200	560	1052	30	285	240	150	8-φ22	260	220	4-φ20
150-50 (I)	200	600	1144	30	285	240	150	8-φ22	260	220	4-φ20
200-20	230	550	1134	30	340	295	200	12-φ22	280	240	4-φ20
200-32	230	670	1185	30	340	295	200	12-φ22	280	240	4-φ20

# Installation Drawings & Dimensions

## Type DFWRP



Model	Outline Dimensions					Flange Dimensions				Base Dimensions						
	L	H	a	h	h1	D	D1	DN	n-d1	B1	B2	L1	L2	L3	h2	4-d2
25-20	522	340	80	200	125	115	85	25	4-φ 14	207	230	330	200	30	20	4-φ 18
25-32	580	380	80	220	145	115	85	25	4-φ 14	300	260	380	250	30	20	4-φ 18
40-20	580	350	80	200	125	150	110	40	4-φ 18	207	230	380	250	30	20	4-φ 18
40-32	595	390	95	220	145	150	110	40	4-φ 18	300	260	380	250	30	20	4-φ 18
40-50	643	399	132	2220	219	150	110	40	4-φ 18	309	340	530	370	40	20	4-φ 22
50-20	590	355	90	205	130	165	125	50	4-φ 18	207	230	380	250	30	20	4-φ 18
50-32	688	400	95	230	155	165	125	50	4-φ 18	300	260	470	340	30	20	4-φ 18
50-50	758	470	105	270	175	165	125	50	4-φ 18	309	340	530	370	40	20	4-φ 22
50-80	834	530	105	305	210	165	125	50	4-φ 18	403	380	590	430	40	20	4-φ 22
65-20	680	395	90	225	150	185	145	65	4-φ 18	207	230	470	340	30	20	4-φ 18
65-32	742	420	90	230	155	185	145	65	4-φ 18	300	260	530	400	30	20	4-φ 18
65-50	838	490	115	280	185	185	145	65	4-φ 18	309	340	590	430	40	20	4-φ 22
65-80	920	545	120	305	210	185	145	65	4-φ 18	403	380	660	500	40	20	4-φ 22
80-20	746	425	95	225	150	200	160	80	8-φ 18	207	230	530	400	30	20	4-φ 18
80-32	834	470	95	250	175	200	160	80	8-φ 18	300	260	600	470	30	20	4-φ 18
80-50	895	515	100	280	185	200	160	80	8-φ 18	309	340	660	500	40	20	4-φ 22
80-80	985	565	120	295	200	200	160	80	8-φ 18	403	380	740	580	40	20	4-φ 22
100-20	847	490	110	250	175	220	180	100	8-φ 18	300	260	600	470	30	20	4-φ 18
100-32	919	500	110	250	175	220	180	100	8-φ 18	300	260	670	540	30	20	4-φ 18
100-50	987	560	110	295	200	220	180	100	8-φ 18	309	340	740	580	40	20	4-φ 22
100-80	1087	590	120	305	210	220	180	100	8-φ 18	403	380	840	680	40	20	4-φ 22
150-20	934	555	125	275	200	285	240	150	8-φ 22	300	260	670	540	30	20	4-φ 18
150-32	1010	555	130	275	200	285	240	150	8-φ 22	300	260	670	540	30	20	4-φ 18
150-50	1102	605	130	305	210	285	240	150	8-φ 22	309	340	840	680	40	20	4-φ 22
150-20(I)	934	555	125	275	200	285	240	150	8-φ 22	300	260	670	540	30	20	4-φ 18
150-32(I)	1010	555	130	275	200	285	240	150	8-φ 22	300	260	670	540	30	20	4-φ 18
150-50(I)	1102	605	130	305	210	285	240	150	8-φ 22	309	340	840	680	40	20	4-φ 22
200-20	1072	570	140	295	220	340	295	200	12-φ 22	300	260	740	610	30	20	4-φ 18
200-32	1122	670	140	335	240	340	295	200	12-φ 22	309	340	840	680	30	20	4-φ 22

# Reference Table of Anti-corrosion Class

Liquids	Chemical Formula	Concentration (%)	Temp.	Anti-corrosion Class			
				303	304	305	306
				1Cr18Ni9	0Cr18Ni9Ti	1Cr18Ni9Ti	0Cr18Ni12Mo2Ti
Nitric Acid	HNO <sub>3</sub>	5	20	1	1	1	1
		5	Boiling	2	2	2	2
		20	20	1	1	1	1
		20	Boiling	1	1	1	1
		40	20	1	1	1	1
		40	Boiling	1	1	1	1
		60	20	1	1	1	1
		60	Boiling	2	1~2	2	2
		90	20	1	1	1	1
		90	Boiling	4	4	4	4
		99	20	2	2	2	2
99	Boiling	4	4	4	4		
Hydrochloride Acid	HCL	2	20	4	3	3	3
		10	20	3	2	2	2
		10	60	5	5	5	4
		30	60	5	5	5	5
Sodium Chloride	NaCL	5	20	1	1	1	1
		5	Boiling	2	1	1	1
		20	20	2	1	1	1
Sulphuric Acid	H <sub>2</sub> SO <sub>4</sub>	20	Boiling	2	1	1	1
		5	20	2	2	2	2
		40	20	3	3	3	3
		40	60	5	5	5	5
		80	20	2	2	2	2
		80	60	5	4~5	5	5
		98	60	2	2	2	2
98	100	4	4	4	4		
Acetum	CH <sub>3</sub> COOH	5	20	1	1	1	1
		5	Boiling	2	2	2	2
		50	20	1	1	1	1
		50	Boiling	2	2	2	2
		80	Boiling	3	3	3	3
		100	20	1	1	1	1
		100	75	1	1	1	1
Potassium Hydroxide	KOH	25	Sodium Chloride	1	1	1	1
		68	120	2	2	2	2

Anti-corrosion Class	1	2	3	4	5
Corrosion Speed (g/m <sup>2</sup> .hr)	<0.1	0.1 ~ 1.0	1.0 ~ 3.0	3.0 ~ 10	>10