

**LIGHT VERTICAL  
MULTISTAGE  
CENTRIFUGAL PUMPS**

**DATA SHEET  
CDLF - CR**



### INTRODUCTION

**Thank You** for purchasing Motion Pumps Light vertical multistage Centrifugal Pump. The Data Sheet provides performance curve(s), a pump model cross-section drawing, for your pump. Therefore, it is the responsibility of the owner/installer of the pump to ensure that applications not addressed in this manual are performed **only** after establishing that neither operator safety nor pump integrity are compromised by the installation. Pumps and related equipment **must** be installed and operated according to all national, local and industry standards. This literature is not for sale, it is just a reference catalogue, not for use in United States of America, some pictures and information was taken from other manufacturers, this literature is made only for Costa Rica, under the local laws of Costa Rica where this information is protected by registration. If there are any questions regarding the pump which are not covered in this manual or in other literature accompanying the unit, please contact your Motion Pump distributor or our office:

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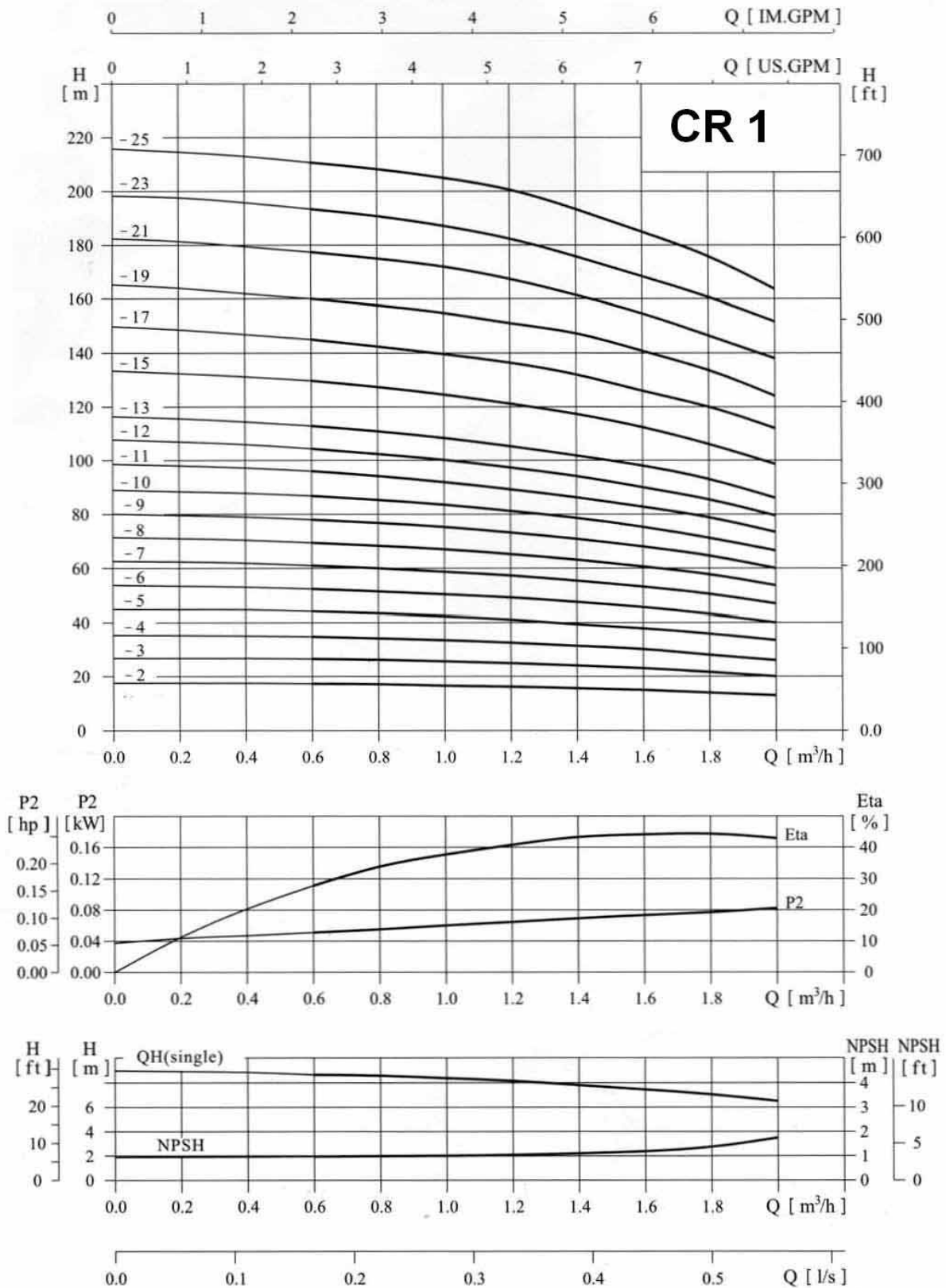
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## ● Performance curve

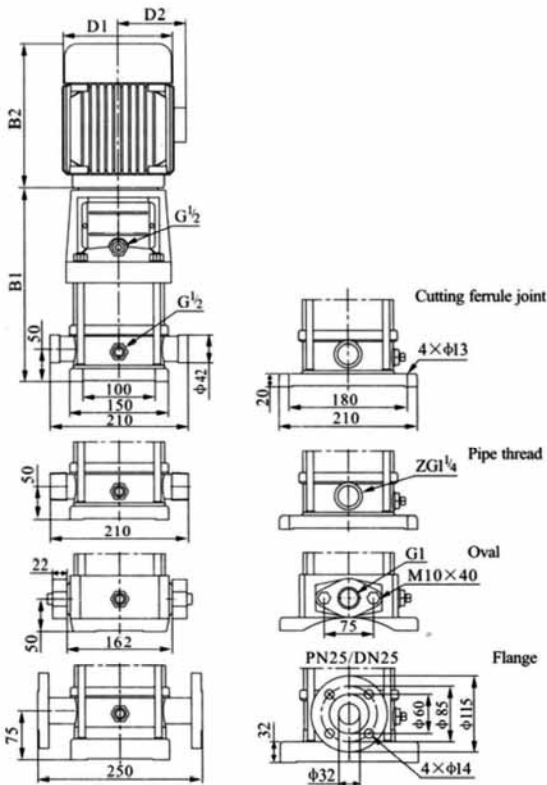




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	0.6	0.8	1	1.2	1.4	1.6	1.8	2
CR 1-2	0.37	H (m)	17.5	17	16.5	16	15.5	15	14	13
	0.37		26.5	26	25	24	23	22	21	20
	0.37		35	34	33	32	31	30	28	26
	0.55		43	42	41	40	39	38	35	33
	0.55		52	51	50	48	47	45	43	39
	0.75		60	59	58	56	55	52	50	46
	0.75		68	67	65	64	62	59	57	53
	0.75		76	75	74	73	71	66	64	60
	1.1		85	84	83	81	78	74	72	67
	1.1		95	93	90	87	85	81	78	73
	1.1		103	102	98	96	92	88	86	79
	1.1		112	110	107	105	100	95	93	86
	1.5		127	125	123	121	117	112	107	99
	1.5		144	141	139	137	132	124	120	112
	2.2		160	157	155	153	147	141	124	120
2.2	177	174	172	168	162	153	147	138		
2.2	193	190	188	184	174	167	161	152		
3	210	207	205	202	192	184	176	164		

## ● Installation sketch



CR 1-19 ~ 1-25 sub-connection of pipeline without oval flange

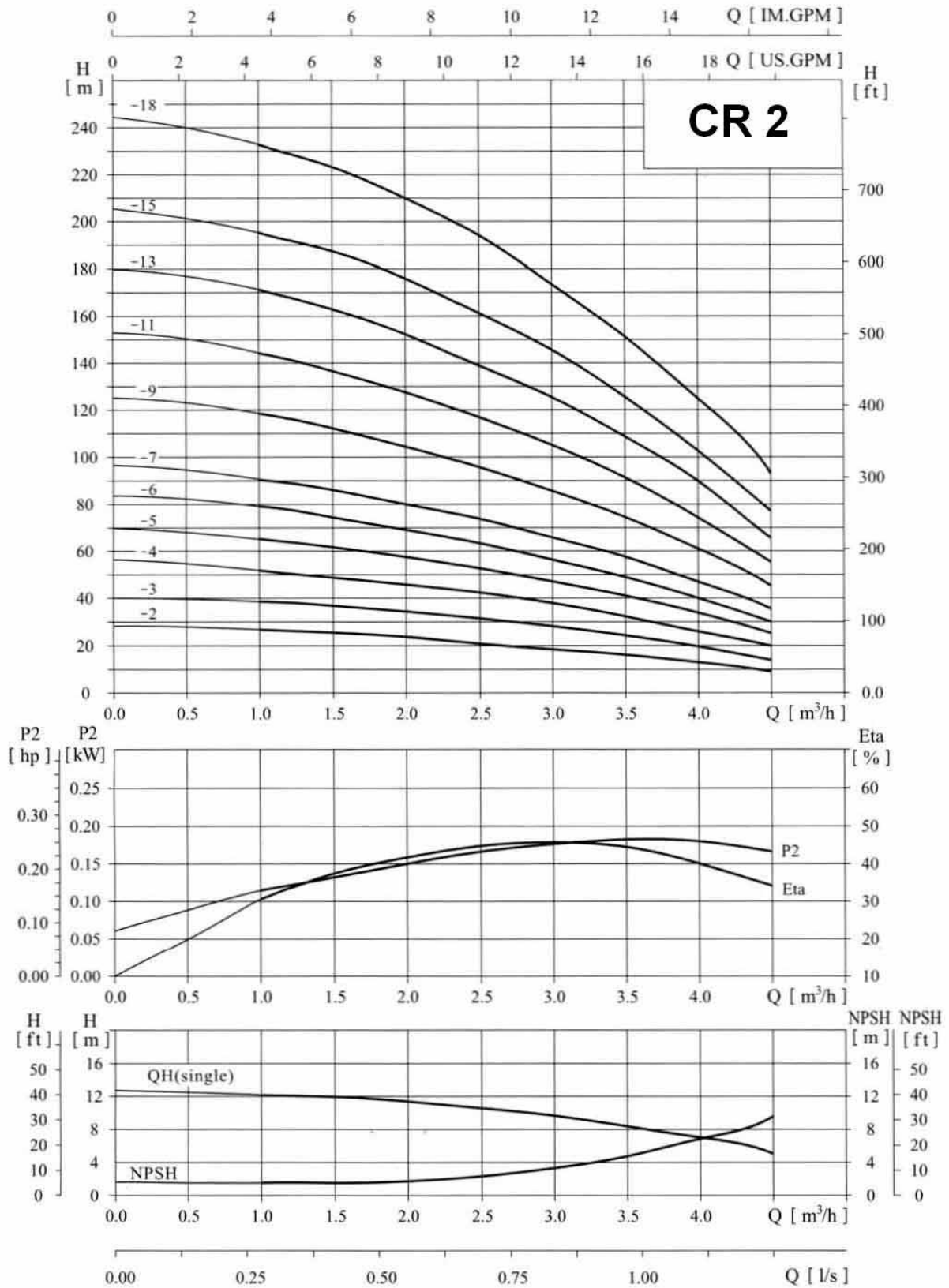
The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.

## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 1-2	258	210	468	148	117	20
1-3	276	210	486	148	117	20
1-4	294	210	504	148	117	20
1-5	312	210	522	148	117	22
1-6	330	210	540	148	117	22
1-7	358	245	603	170	142	25
1-8	376	245	621	170	142	25
1-9	394	245	639	170	142	25
1-10	412	245	657	170	142	28
1-11	430	245	675	170	142	28
1-12	448	245	693	170	142	28
1-13	466	245	711	170	142	28
1-15	512	290	802	190	155	30
1-17	548	290	838	190	155	30
1-19	584	290	874	190	155	35
1-21	620	290	910	190	155	35
1-23	656	290	946	190	155	40
1-25	702	315	1017	197	165	45



## ● Performance curve

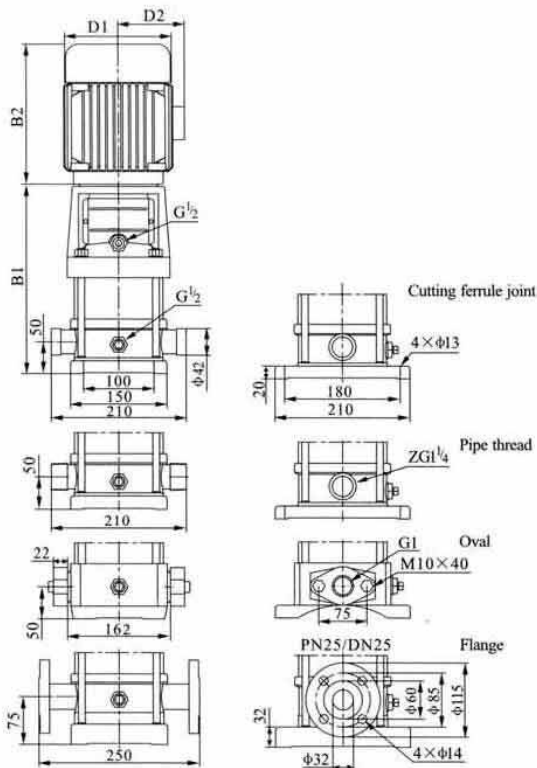




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	1	1.5	2	2.5	3	3.5	4	4.5	
CR 2-2	0.55	H (m)	26	24	22	21	18	16	12	9	
	2-3		0.75	39	36	33	31	27	24	19	15
	2-4		1.1	52	48	45	42	36	32	26	20
	2-5		1.1	65	60	57	52	46	41	32	25
	2-6		1.1	78	74	69	63	56	49	40	30
	2-7		1.5	91	86	81	74	66	57	47	35
	2-9		2.2	117	111	104	95	86	75	61	45
	2-11		2.2	143	136	128	116	104	90	75	56
	2-13		3	171	163	152	139	126	108	90	66
	2-15		3	195	186	176	160	142	125	103	77
	2-18		4	234	228	212	195	171	151	126	94

## ● Installation sketch



CR 2-13 ~ 2-18 sub-connection of pipeline without oval flange

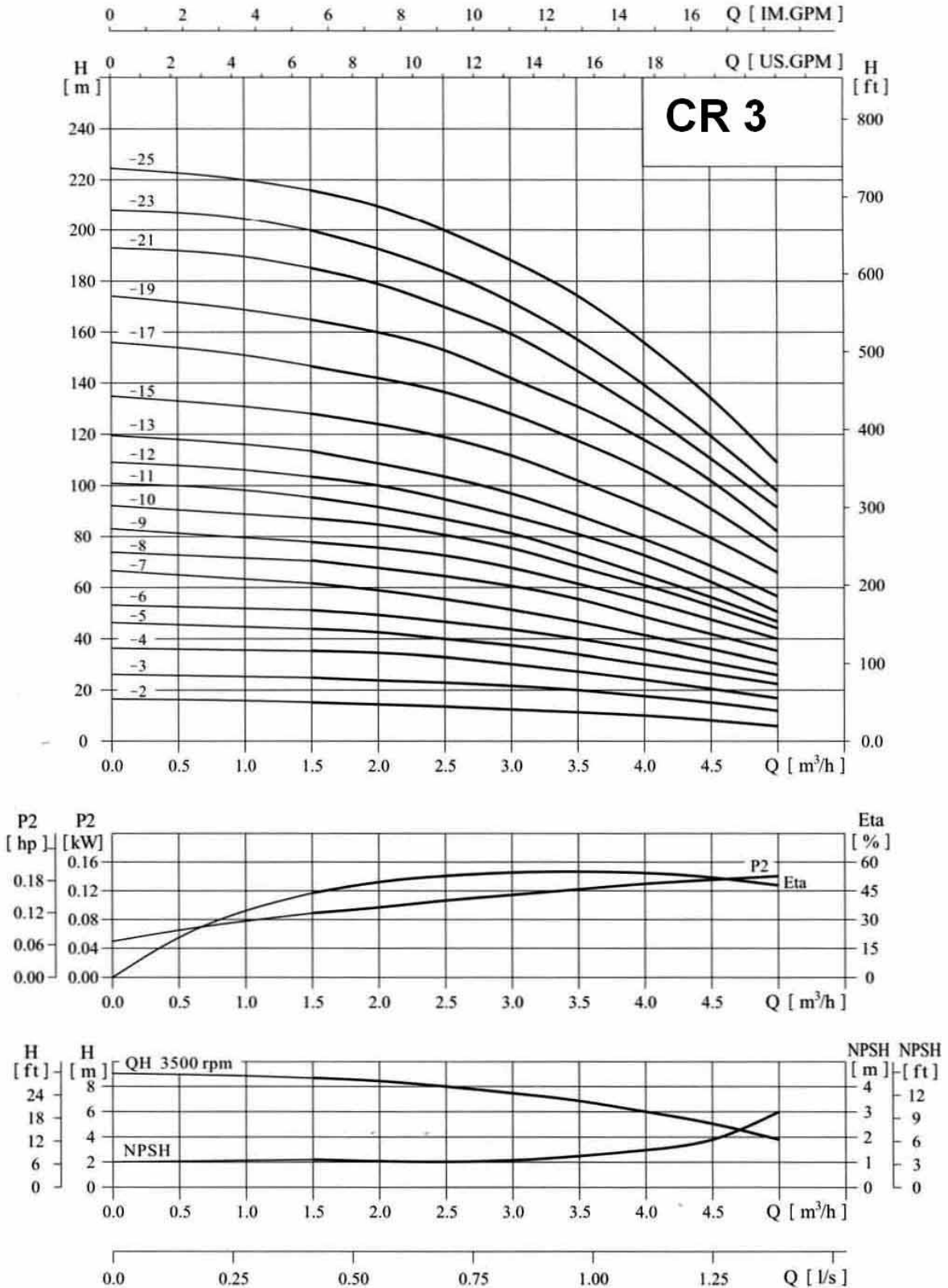
The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.

## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 2-2	258	210	468	148	117	20
	286	245	531	170	142	20
	304	245	549	170	142	25
	322	245	567	170	142	25
	340	245	585	170	142	25
	368	290	658	170	155	30
	404	290	694	190	155	35
	440	290	730	190	155	35
	486	315	801	197	165	40
	522	315	837	197	165	40
	576	335	911	230	185	45



## ● Performance curve

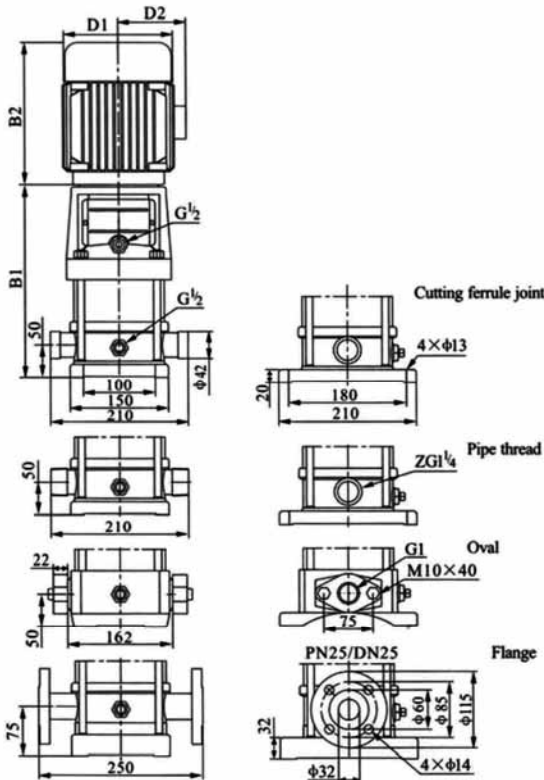




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	1.5	2	2.5	3	3.5	4	4.5	5
CR 3-2	0.37	H (m)	17.5	16	15	14	13	11	9	8
3-3	0.55		26.5	25	24	23	20	18	15	12
3-4	0.55		35	34	32	30	27	25	20	17
3-5	0.75		44	42	40	38	33	31	26	23
3-6	1.1		51	50	48	45	40	37	32	27
3-7	1.1		61	59	56	52	46	43	38	31
3-8	1.1		70	67	64	61	53	49	44	35
3-9	1.5		78	77	72	68	60	56	50	40
3-10	1.5		87	84	81	76	68	63	55	44
3-11	1.5		96	92	87	82	74	69	59	48
3-12	2.2		104	100	96	90	79	73	63	52
3-13	2.2		112	109	104	98	86	80	69	57
3-15	2.2		129	126	120	112	99	93	81	65
3-17	2.2		147	143	137	128	114	106	91	74
3-19	3		165	160	153	142	126	118	102	82
3-21	3		183	178	170	160	141	129	112	91
3-23	3		200	194	185	174	154	142	122	98
3-25	4		217	211	202	187	167	154	134	108

## ● Installation sketch



CR 3-17 ~ 3-25 sub-connection of pipeline without oval flange

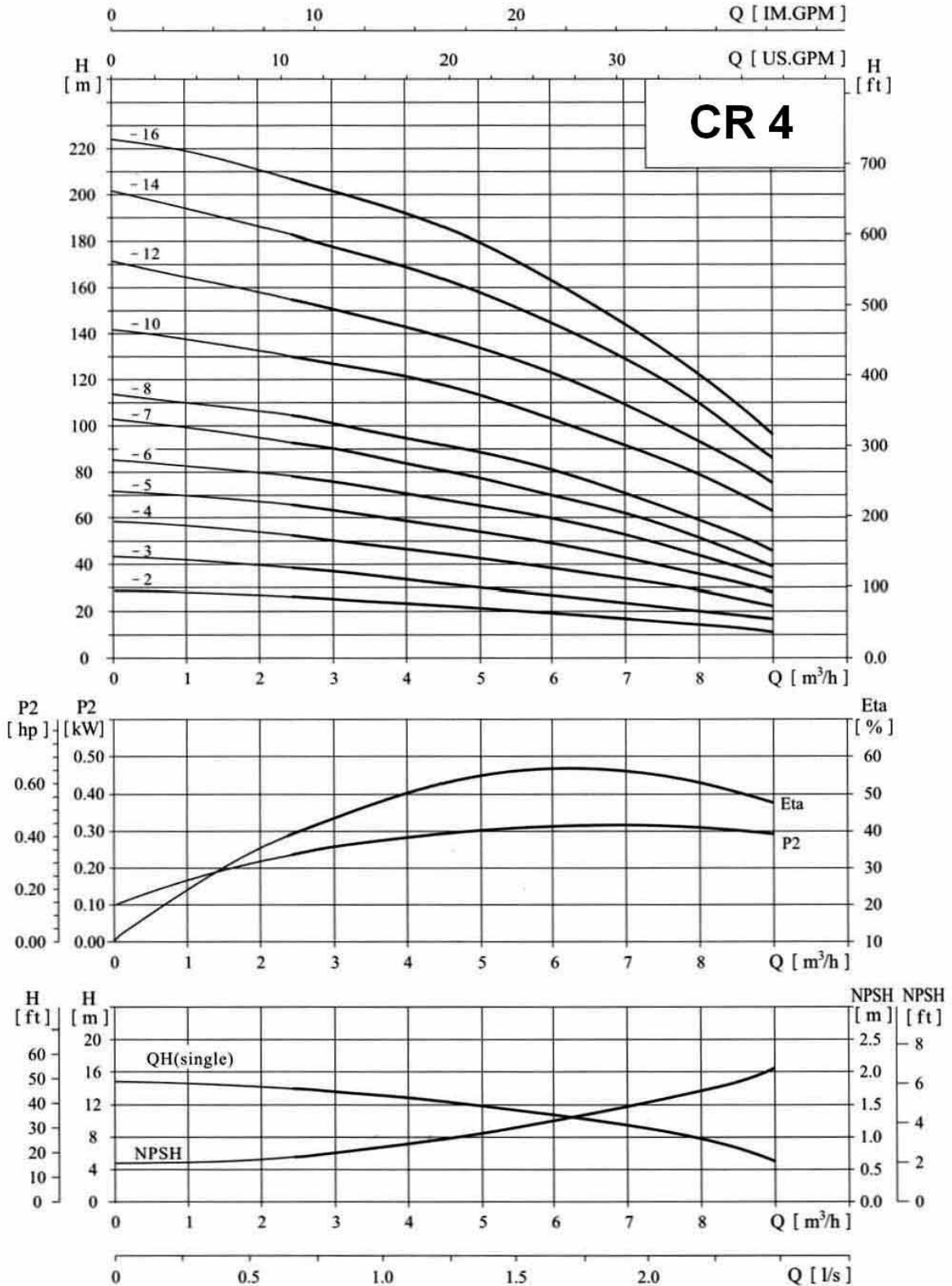
The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.

## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 3-2	258	210	468	148	117	20
3-3	276	210	486	148	117	20
3-4	294	210	504	148	117	20
3-5	322	245	567	170	142	22
3-6	340	245	585	170	142	25
3-7	358	245	603	170	142	25
3-8	376	245	621	170	142	25
3-9	404	290	694	190	155	30
3-10	422	290	712	190	155	30
3-11	440	290	730	190	155	30
3-12	458	290	748	190	155	35
3-13	476	290	766	190	155	35
3-15	512	290	802	190	155	35
3-17	548	290	838	190	155	35
3-19	594	315	909	197	165	40
3-21	630	315	945	197	165	40
3-23	666	315	981	197	165	40
3-25	702	335	1037	230	188	50



## ● Performance curve

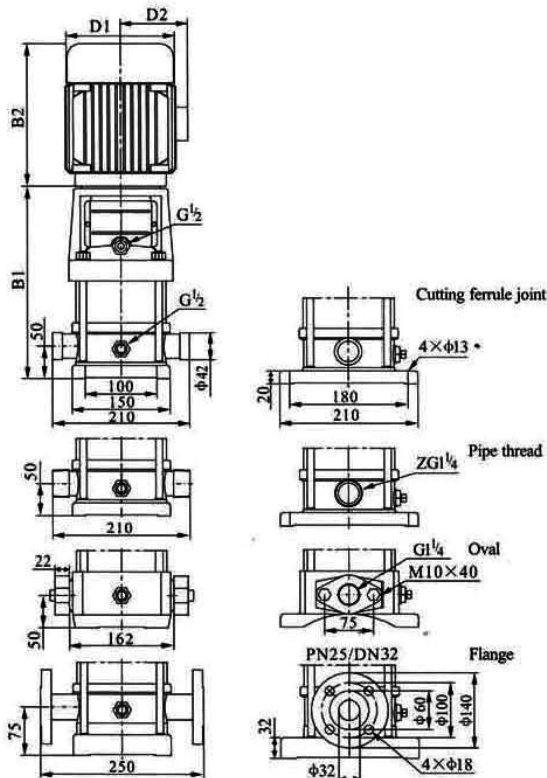




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	2.5	3	4	5	6	7	8	9
CR 4-2	0.75	H (m)	26	25	23	21	19	16	14	11
4-3	1.1		39	38	36	32	28	24	21	18
4-4	1.5		52	50	48	44	38	35	31	22
4-5	2.2		65	62	60	55	49	44	39	27
4-6	2.2		78	75	72	67	59	54	47	33
4-7	3		92	88	84	78	69	62	55	38
4-8	3		104	100	95	90	79	72	63	44
4-10	4		130	125	120	113	102	90	80	61
4-12	4		156	150	145	136	122	109	96	74
4-14	5.5		182	176	170	159	145	129	112	86
4-16	5.5		207	201	196	183	165	146	128	98

## ● Installation sketch



CR 4-12 ~ 4-16 sub-connection of pipeline without oval flange

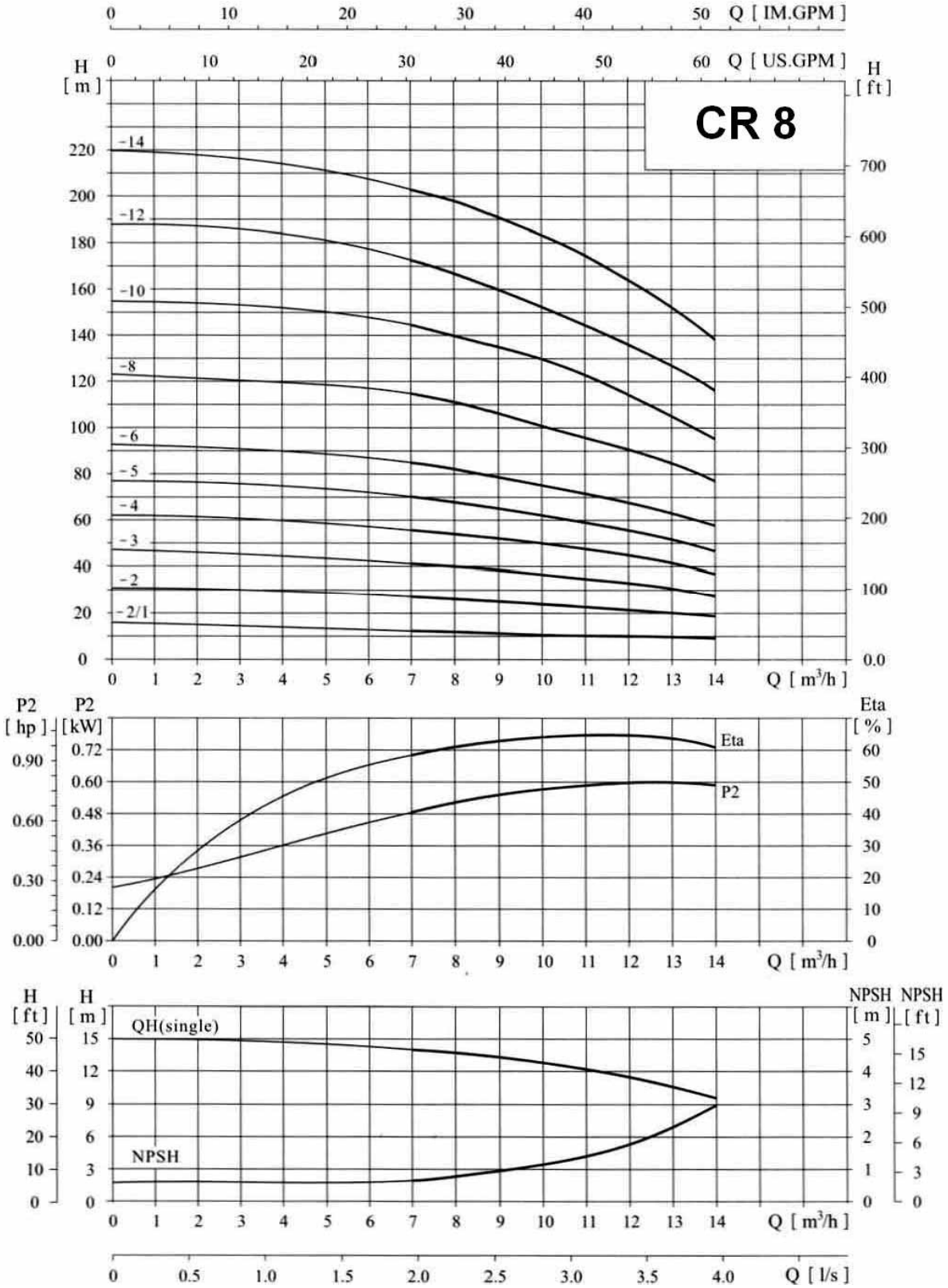
The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.

## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 4-2	286	245	531	170	142	20
4-3	313	245	558	170	142	20
4-4	350	290	640	190	155	25
4-5	376	290	667	190	155	30
4-6	404	290	694	190	155	35
4-7	441	315	756	197	165	40
4-8	468	315	783	197	165	40
4-10	522	335	857	230	188	45
4-12	576	335	911	230	188	45
4-14	650	430	1080	260	208	70
4-16	704	430	1134	260	208	70



## ● Performance curve

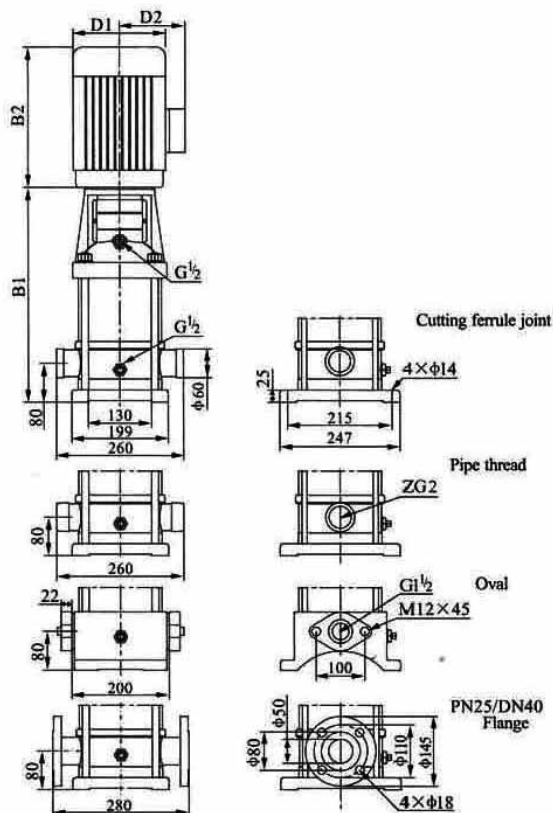




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	7	8	9	10	11	12	13	14
CR 8-2/1	0.75	H (m)	13	12	11.5	11	10.5	10	9.5	9
8-2	1.5		27	26	25	24	23	22	20	18
8-3	2.2		41	40	38	37	35	33	30	28
8-4	3		55	54	52	50	47	45	41	38
8-5	3		70	68	65	63	59	56	52	47
8-6	4		85	82	78	76	72	68	62	57
8-8	5.5		115	110	105	101	97	91	84	75
8-10	7.5		145	140	132	126	122	115	105	95
8-12	7.5		173	167	160	152	147	132	125	115
8-14	11		202	195	188	179	174	163	147	135

## ● Installation sketch



CR 8-10 ~ 8-14 sub-connection of pipeline without oval flange

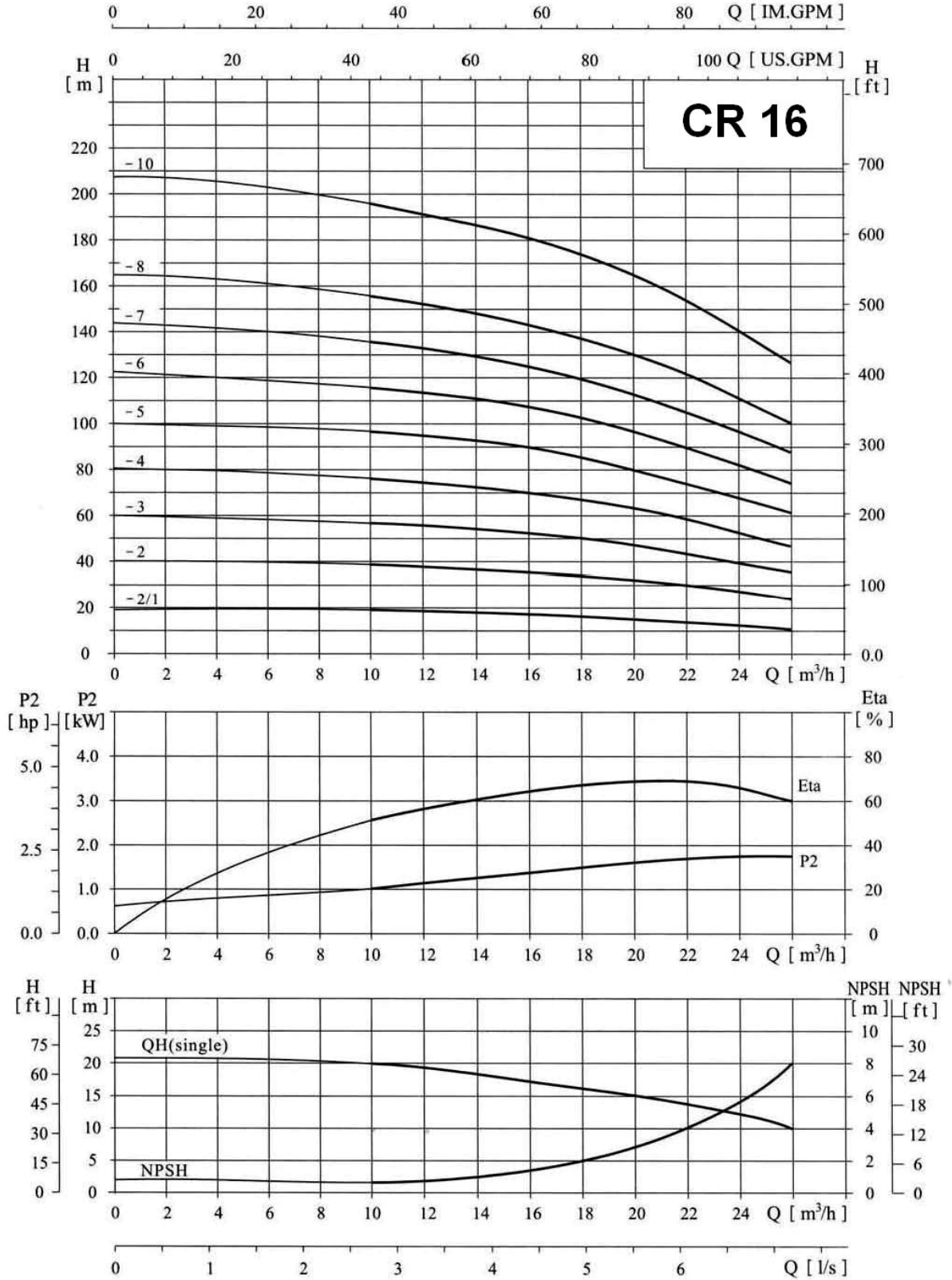
The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.

## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 8-2/1	347	245	592	170	142	27
8-2	357	290	647	190	155	32
8-3	387	290	677	192	155	37
8-4	427	315	742	197	165	42
8-5	457	315	772	197	165	47
8-6	487	335	822	230	188	52
8-8	567	430	997	260	188	77
8-10	627	430	1057	260	208	87
8-12	687	430	1117	260	208	87
8-14	835	490	1325	330	255	132



## ● Performance curve

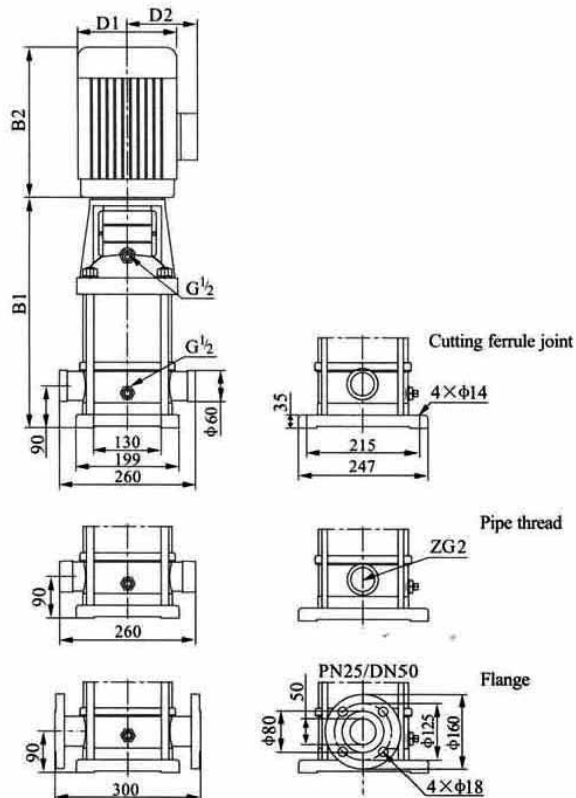




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	10	12	14	16	18	20	22	24	26
<b>CR</b> 16-2/1	2.2	H (m)	19	18.5	18	17	16	15	14	13	11
	4		38	37	36	35	34	32	30	27	24
	5.5		57	56	55	54	51	48	45	40	36
	7.5		76	75	73	72	68	64	60	54	49
	11		96	94	92	90	85	80	75	68	62
	11		115	113	111	108	102	96	91	82	75
	15		135	132	129	126	119	113	106	96	88
	15		155	152	148	144	137	130	122	111	101
	18.5		197	192	187	181	174	165	153	139	127

## ● Installation sketch



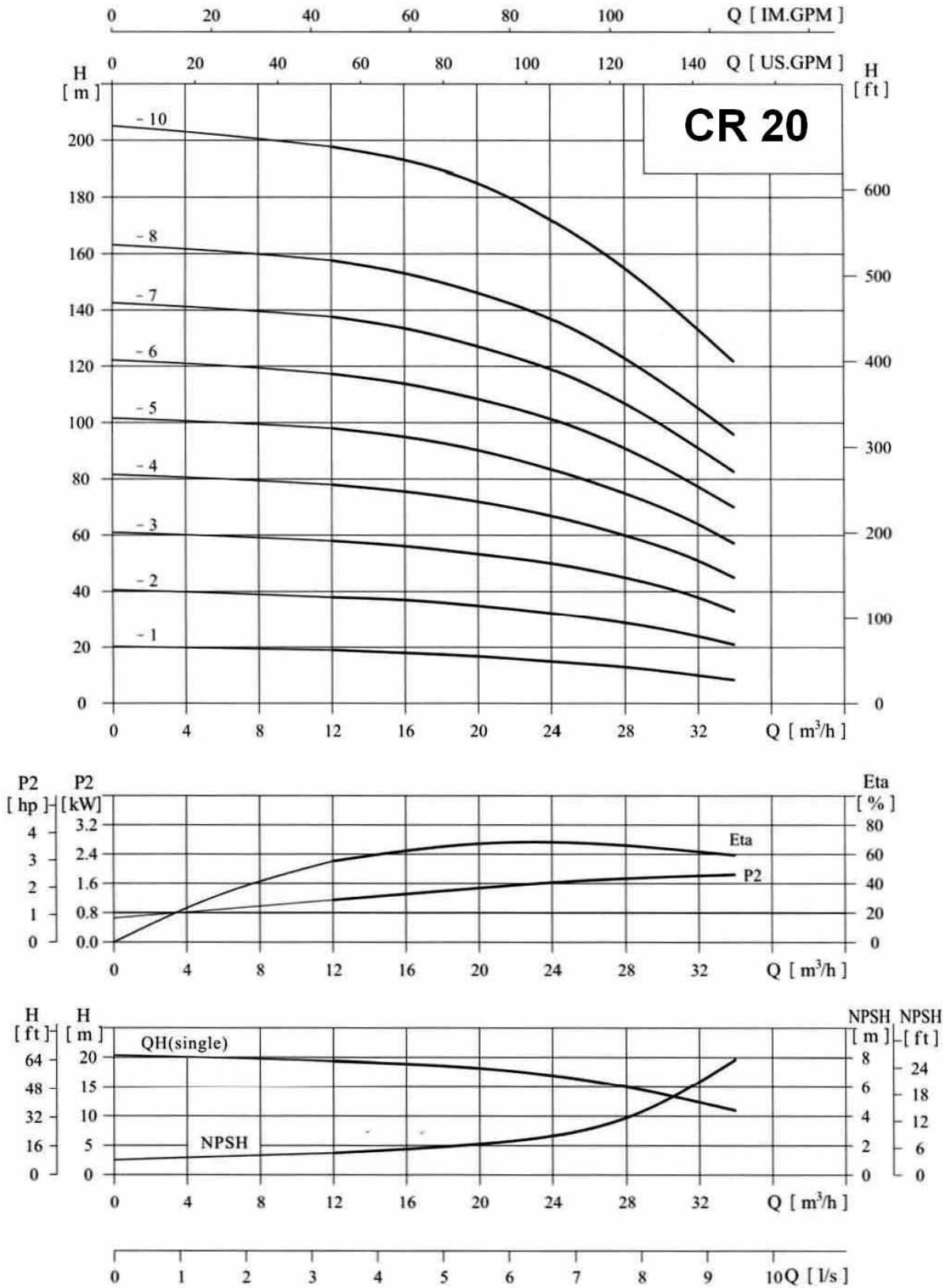
## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
<b>CR</b> 16-2/1	397	290	687	190	155	42
16-2	407	335	742	230	188	52
16-3	472	430	902	260	208	72
16-4	517	430	947	260	208	82
16-5	650	490	1140	330	255	142
16-6	695	490	1185	330	255	147
16-7	740	490	1230	330	255	162
16-8	785	490	1275	330	255	162
16-10	875	550	1425	330	255	192

The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.



## ● Performance curve

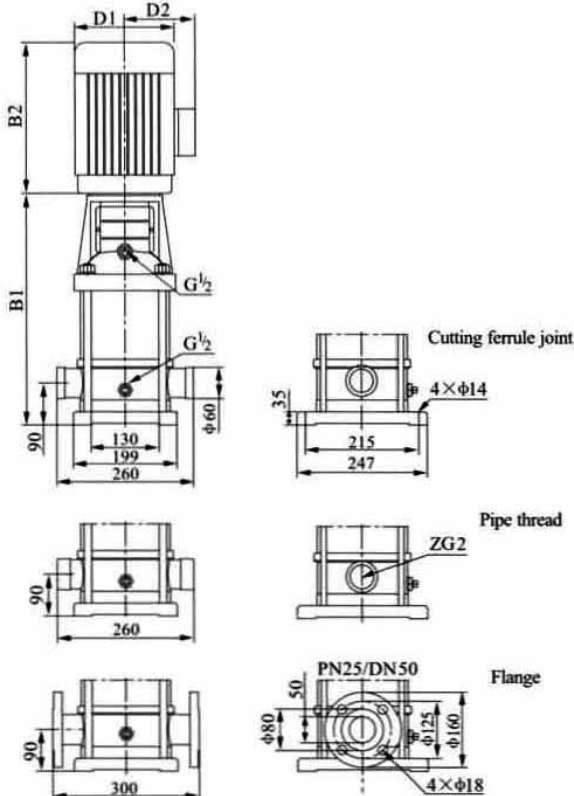




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	12	16	20	24	28	32	34	
<b>CR</b> 20-1	2.2	H (m)	19	18	17	15	13	10	8.5	
	20-2		4.0	38	37	35	32	29	24	21
	20-3		5.5	58	56	53	50	45	38	33
	20-4		7.5	78	75	72	67	60	51	45
	20-5		11	98	94	90	85	75	64	57
	20-6		11	118	113	108	102	91	77	70
	20-7		15	138	133	127	119	107	91	83
	20-8		15	158	153	146	137	123	105	96
	20-10		18.5	198	193	185	172	155	133	122

## ● Installation sketch



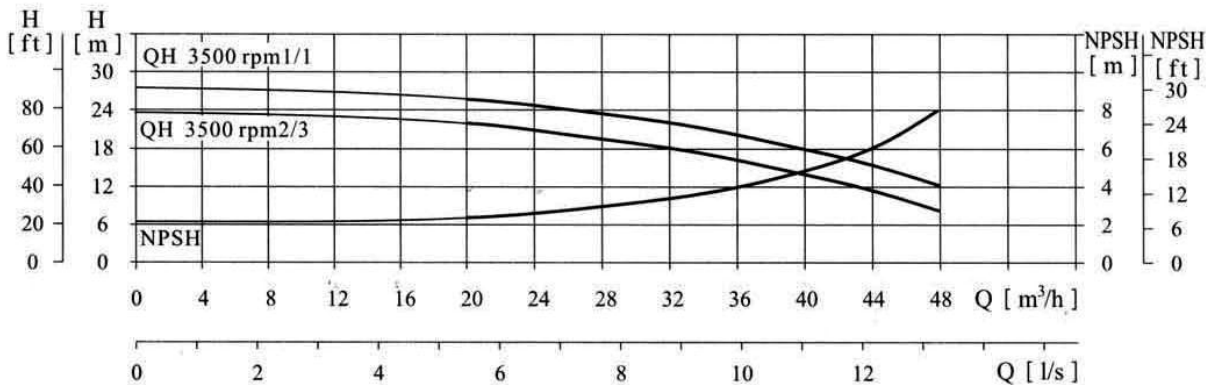
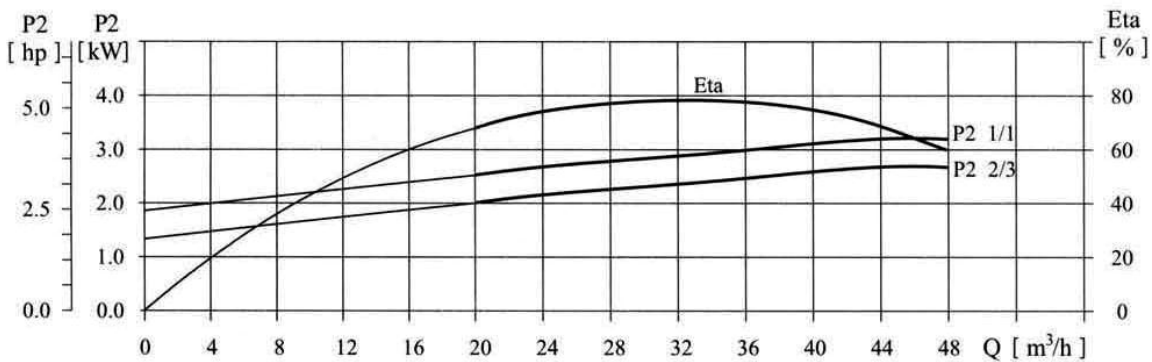
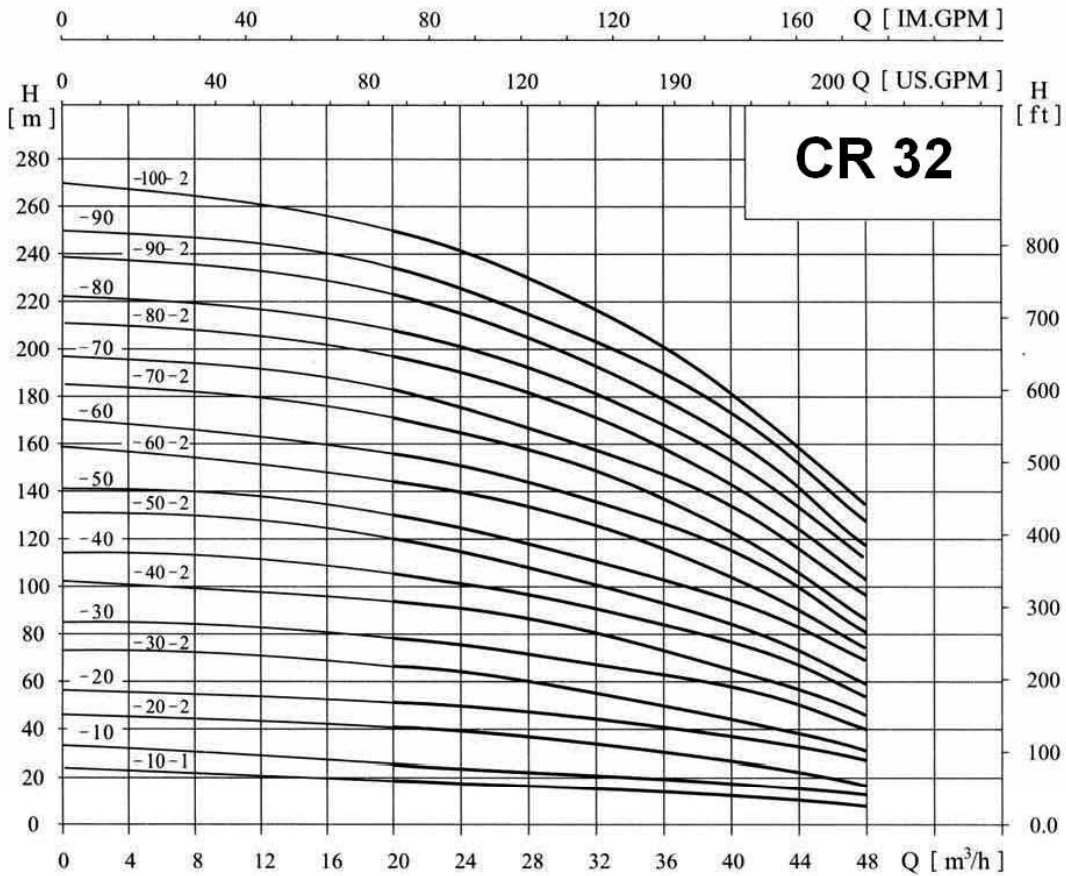
## ● Size and weight

Model	Size (mm)					Weight (kg)	
	B1	B2	B1+B2	D1	D2		
<b>CR</b> 20-1	397	290	687	190	155	43	
	20-2	407	335	742	230	188	55
	20-3	472	430	902	260	208	70
	20-4	517	430	947	260	208	77
	20-5	650	490	1140	330	255	133
	20-6	695	490	1185	330	255	135
	20-7	740	490	1230	330	255	145
	20-8	785	490	1275	330	255	150
	20-10	875	550	1425	330	255	173

The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.



## ● Performance curve

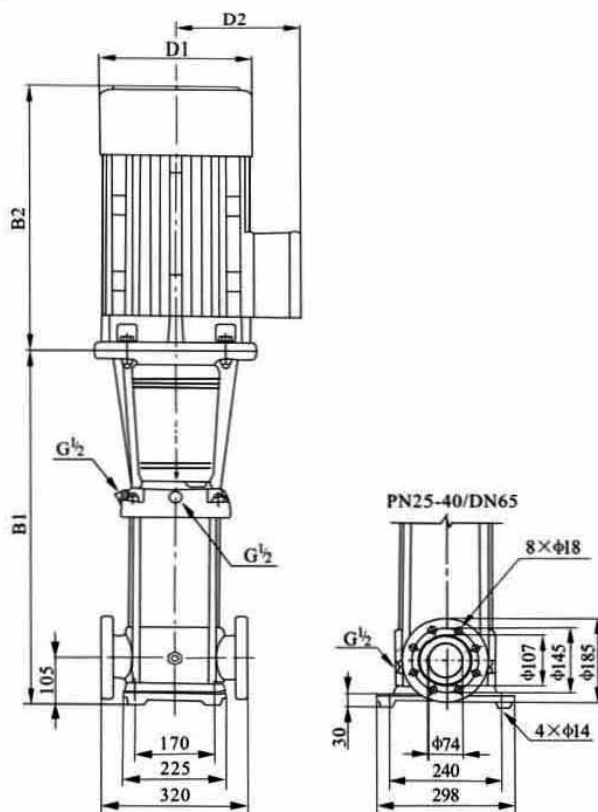




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	20	24	28	32	36	40	44	48	
<b>CR</b>	32-10-1	3.0	H (m)	20	19	18	17	15	13	10	7
	32-10	4.0		26	25	24	23	21	19	17	14
	32-20-2	5.5		41	40	38	35	31	27	22	17
	32-20	7.5		52	50	48	45	41	37	33	27
	32-30-2	7.5		67	64	61	57	52	46	39	31
	32-30	11		78	75	71	67	62	56	50	40
	32-40-2	11		94	91	87	81	73	65	56	45
	32-40	15		104	101	96	91	83	75	66	55
	32-50-2	15		119	115	109	102	94	84	73	59
	32-50	18.5		130	125	119	112	104	94	83	69
	32-60-2	18.5		145	140	134	126	116	104	90	74
	32-60	18.5		155	150	144	136	126	114	100	81
	32-70-2	22		172	166	158	149	137	123	106	86
	32-70	22		182	176	168	159	148	133	118	97
	32-80-2	22		196	190	182	172	159	143	124	102
	32-80	30		208	201	192	181	167	152	132	111
	32-90-2	30		223	216	206	194	179	162	142	117
	32-90	30		234	226	216	204	189	172	152	127
	32-100-2	30		248	241	231	217	201	181	159	133

## ● Installation sketch



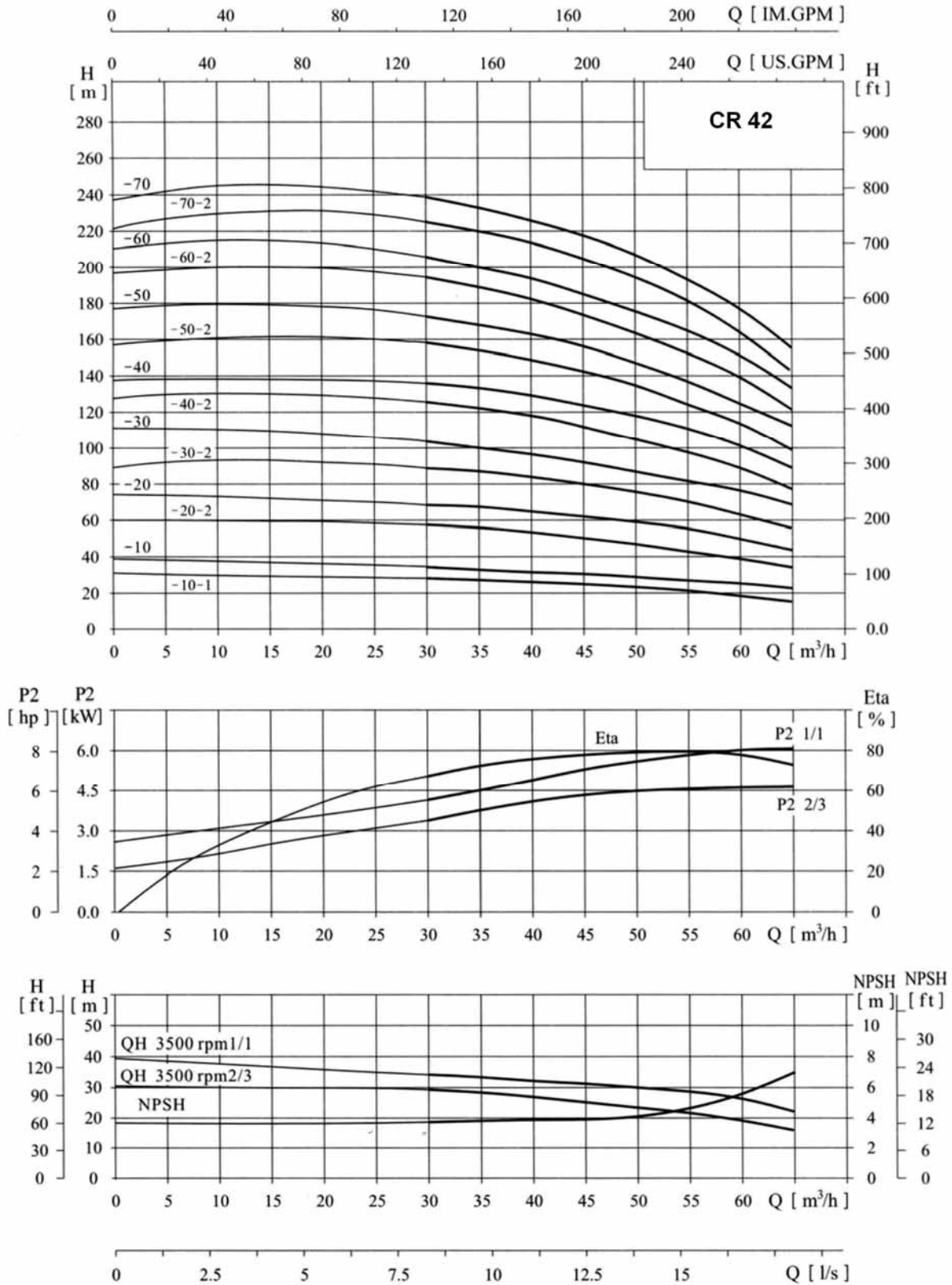
## ● Size and weight

Model	Size (mm)					Weight (kg)	
	B1	B2	B1+B2	D1	D2		
<b>CR</b>	32-10-1	505	315	820	197	165	85
	32-10	505	335	840	230	188	95
	32-20-2	575	430	1005	260	208	105
	32-20	575	430	1005	260	208	115
	32-30-2	645	490	1135	330	255	120
	32-30	750	490	1240	330	255	175
	32-40-2	820	490	1310	330	255	180
	32-40	820	490	1310	330	255	210
	32-50-2	890	490	1380	330	255	220
	32-50	890	550	1440	330	255	240
	32-60-2	960	550	1510	330	255	250
	32-60	960	550	1510	330	255	250
	32-70-2	1030	590	1620	360	285	285
	32-70	1030	590	1620	360	285	285
	32-80-2	1100	590	1690	400	310	290
	32-80	1100	660	1760	400	310	330
	32-90-2	1170	660	1830	400	310	340
	32-90	1170	660	1830	400	310	340
	32-100-2	1240	660	1900	400	310	350

The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.



## ● Performance curve

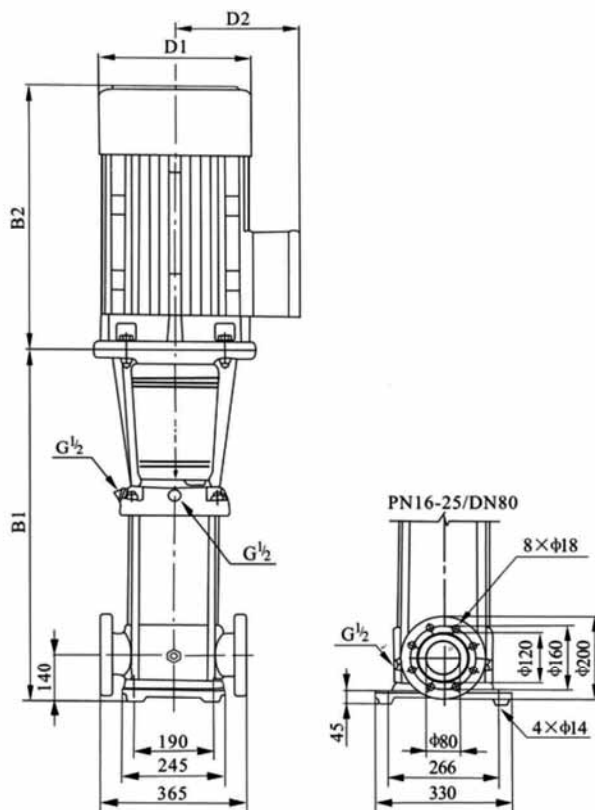




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	30	35	40	42	45	50	55	60	65
CR 42-10-1	5.5	H (m)	29	28	27	26	25	23	21	19	16
42-10	7.5		34	33	32	31.5	30	29	27	25	22
42-20-2	11		57	55	53	52	49	46	43	38	33
42-20	15		69	67	65	63	61	59	55	50	44
42-30-2	18.5		90	88	85	83	80	75	72	63	55
42-30	18.5		102	100	97	95	92	88	82	76	68
42-40-2	22		125	121	118	115	112	105	98	89	78
42-40	30		136	133	129	126	123	117	112	102	89
42-50-2	30		159	154	149	146	142	134	121	115	99
42-50	30		171	166	161	158	154	145	138	126	112
42-60-2	37		194	188	182	178	173	163	155	139	122
42-60	37		205	200	193	190	186	176	166	152	134
42-70-2	45		227	220	213	210	205	193	182	165	144
42-70	45		239	232	226	221	216	204	194	178	157

## ● Installation sketch



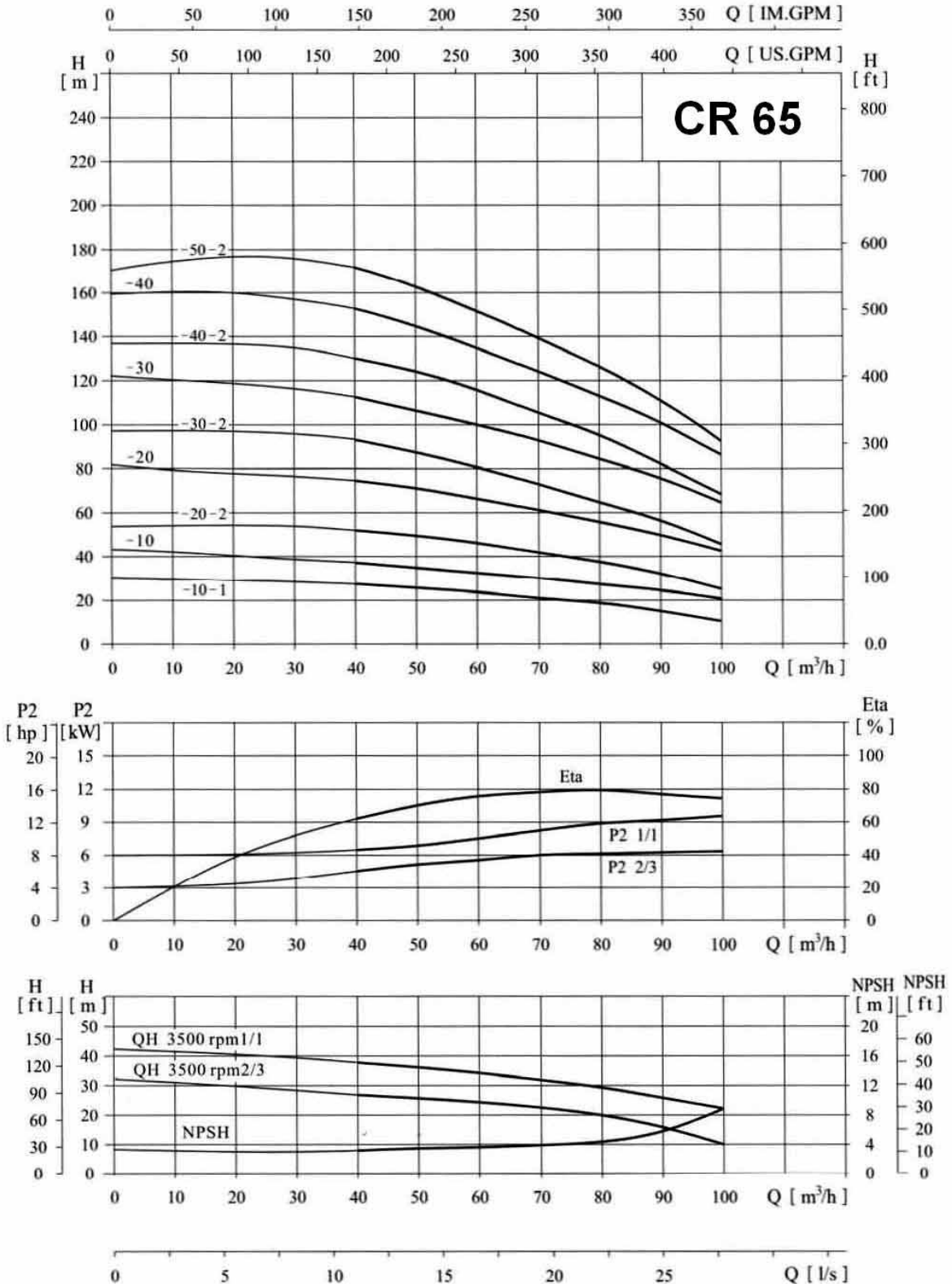
## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 42-10-1	561	430	992	260	208	108
42-10	561	430	992	260	208	113
42-20-2	748	490	1238	330	255	154
42-20	748	490	1238	330	255	187
42-30-2	828	550	1378	330	255	201
42-30	828	550	1378	330	255	201
42-40-2	908	590	1498	360	285	258
42-40	908	660	1568	400	310	336
42-50-2	988	660	1648	400	310	341
42-50	988	660	1648	400	310	341
42-60-2	1068	660	1728	400	310	365
42-60	1068	660	1728	400	310	365
42-70-2	1148	700	1848	460	340	435
42-70	1148	700	1848	460	340	435

The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.



## ● Performance curve

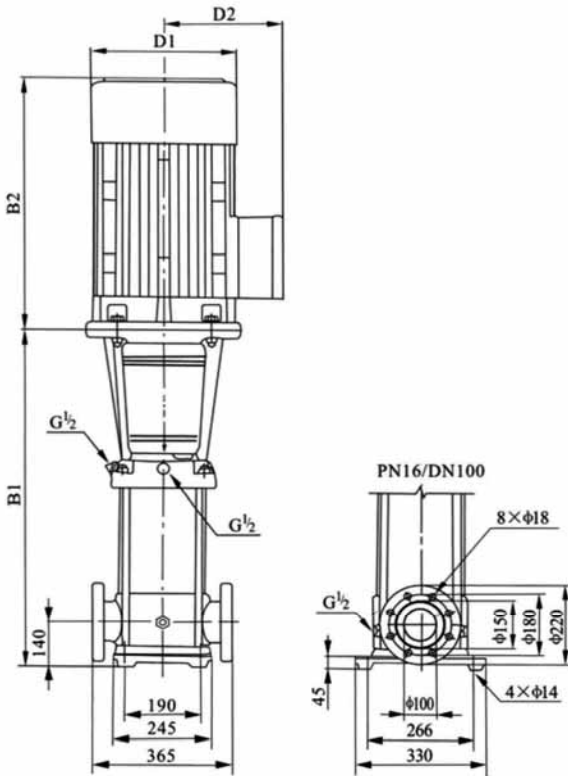




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	40	50	60	65	70	80	90	100
CR 65-10-1	7.5	H (m)	26	25	23	22	21	18	14	10
65-10	11		37	35	33	32	31	28	24	21
65-20-2	15		53	50	47	44	42	37	31	23
65-20	22		74	72	67	64	62	57	51	42
65-30-2	22		93	88	80	76	72	65	56	45
65-30	30		112	108	100	96	93	86	77	65
65-40-2	37		130	124	115	110	103	94	83	66
65-40	45		152	144	135	130	123	114	102	86
65-50-2	45		172	162	151	144	137	126	112	91

## ● Installation sketch



## ● Size and weight

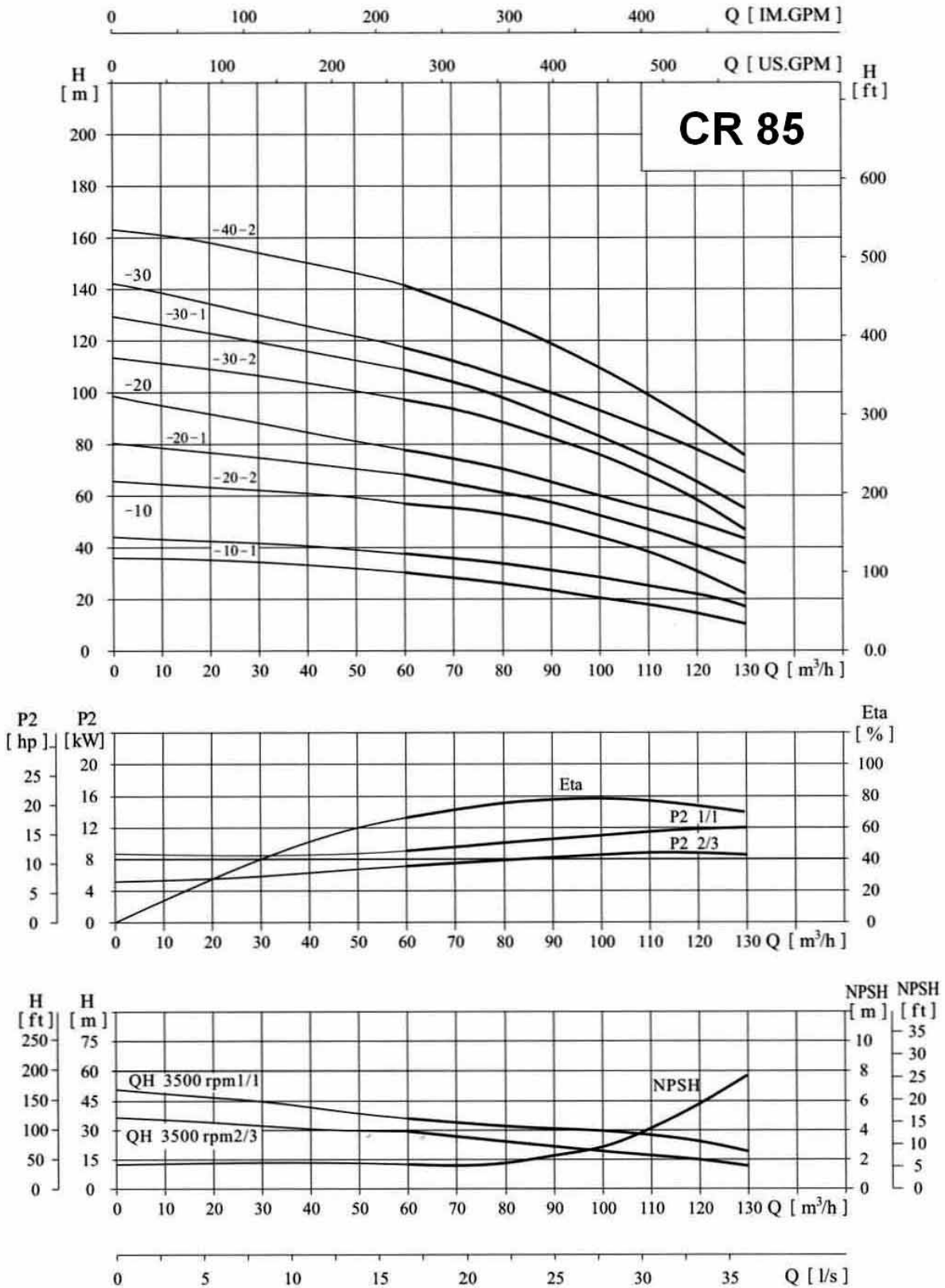
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 65-10-1	561	430	991	260	208	115
65-10	671	490	1161	330	255	152
65-20-2	754	490	1244	330	255	190
65-20	754	590	1344	360	285	252
65-30-2	836	590	1426	360	285	257
65-30	836	660	1496	400	310	335
65-40-2	919	660	1579	400	310	360
65-40	919	700	1619	460	340	425
65-50-2	1001	700	1701	460	340	430

The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.





## ● Performance curve

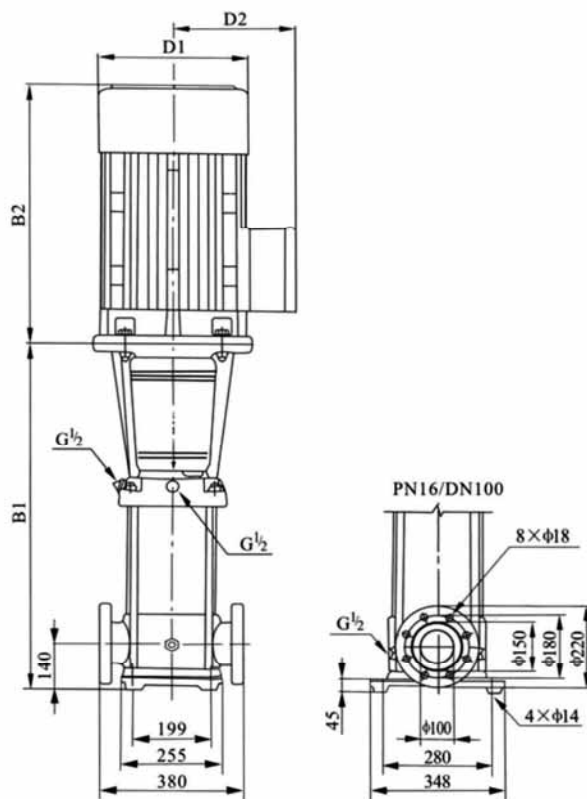




## ● Performance table

Model	Power (kW)	Q (m <sup>3</sup> /h)	60	70	80	85	90	100	110	120	130
CR 85-10-1	11	H (m)	31	27	25	24	23	21	18	14	9
85-10	15		36	35	33	31	30	29	26	23	18
85-20-2	18.5		59	57	54	51	48	44	39	32	22
85-20-1	22		67	65	62	59	57	51	47	41	33
85-20	30		76	73	69	66	64	60	56	52	44
85-30-2	37		98	94	88	85	82	75	69	59	46
85-30-1	37		108	104	98	94	90	83	78	69	56
85-30	45		116	111	105	102	97	93	88	79	69
85-40-2	45		141	135	128	124	118	109	102	89	72

## ● Installation sketch



## ● Size and weight

Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CR 85-10-1	571	490	1061	330	255	184
85-10	571	490	1061	330	255	184
85-20-2	773	550	1323	330	255	264
85-20-1	773	590	1363	360	285	264
85-20	773	660	1433	400	310	329
85-30-2	865	660	1525	400	310	363
85-30-1	865	660	1525	400	310	363
85-30	865	700	1565	460	340	363
85-40-2	957	700	1657	460	340	430

The overall dimensions of the single-phase motor and explosion-proof motor are a little changed. Pls contact us for details.



### WARRANTY

Pumping units manufactured or distributed by Intra Corporation, are guaranteed to be free from defects in material and workmanship for one year from date of shipment from factory in Florida. The obligation under this Warranty, statutory or otherwise, is limited to replacement or repair at Saint Petersburg, Florida factory or at a point designated by Intra Corporation, of such part as shall appear to us upon inspection at such point, to have been defective in material or workmanship.

This Warranty does not obligate Intra Corporation to bear the cost of labor or transportation charges in connection with replacement or repair of defective parts; nor shall it apply to a pump upon which repairs or alterations have been made unless authorized by Intra Corporation.

No warranty is made in respect to engines, motors, or trade accessories, such being subject to warranties of their respective manufacturers.

No express implied or statutory warranty, other than herein set forth is made or authorized to be made by Intra Corporation.

In no event shall Intra Corporation be liable for consequential damages or contingent liabilities arising out of the failure of any Motion pumps or parts thereof to operate properly.

**INTRA CORPORATION**  
Saint Petersburg, Florida