

 **Tsunami Pump**[®]

your preferred **water booster**

CVF VERTICAL MULTISTAGE
SERIES CENTRIFUGAL PUMP



**IMPROVED
PERFORMANCE
MORE
DURABILITY**



 **JAPAN** 日本
TECHNOLOGY 科技

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CVF

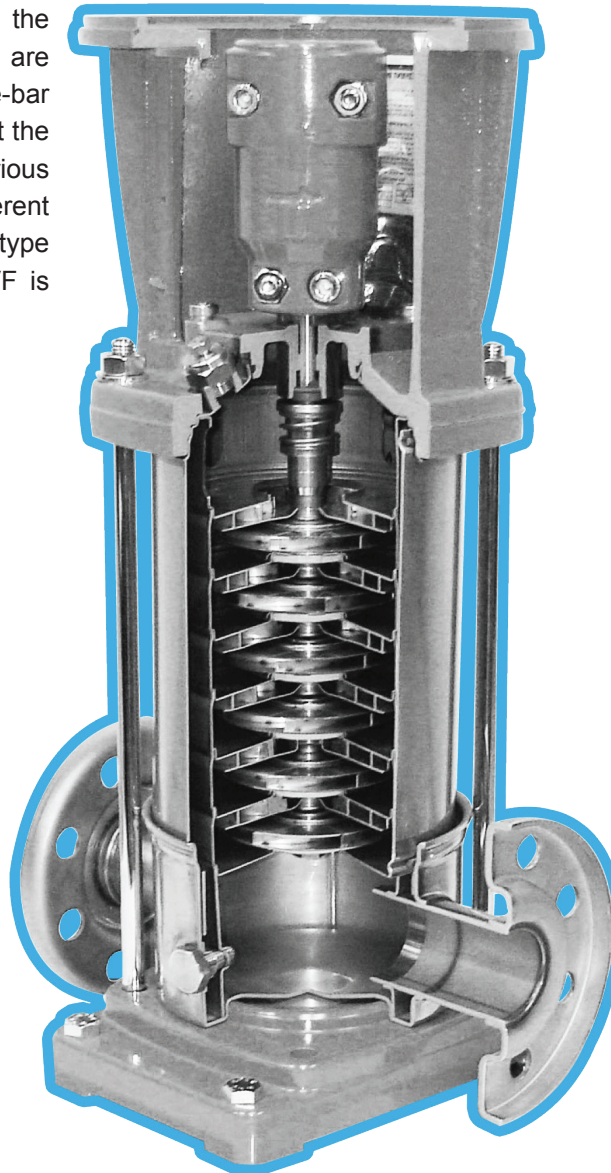
S E R I E S

VERTICAL MULTISTAGE CENTRIFUGAL PUMP

CVF is a kind of vertical non - self priming multistage centrifugal pump, pump consist of a base and a pump head, the pressure-resistant cylinder and flow passage components are fixed between pump head and in-and-outlet section with tie-bar bolts, the inlet and outlet are located at the pump bottom at the same plane (Inline type). It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. CV type is applicable to conveying non-corrosive liquid, while CVF is suitable for slightly corrosive liquid.

SPECIFICATIONS

Flow	Up to 725 GPM
Head (TDH)	Up to 1200 feet
Power supply	Three-phase 50Hz
Power	Standard motors from 0.5 HP to 75 HP
Maximum operating pressure	Up to 580 PSI (40 bar) for sizes 1SV through 125SV
Temperature of pumped liquid	-22°F to 250°F standard version / up to 300°F in "hot water design"
Motor Enclosure	ODP, TEFC and Explosion Proof with Premium Efficiency options
Motor insulation class	F



APPLICATION

- **WATER SUPPLY**
Water filter and transport in waterworks, boosting of main pipeline, boosting in high-rise buildings.
- **INDUSTRIAL BOOSTING**
Process flow water system, cleaning system, high-pressure washing system, fire fighting system.
- **INDUSTRIAL LIQUID CONVEYING**
Cooling and air-conditioning system, boiler water supply and condensing system, machine-associated purpose, acids and alkali.
- **WATER TREATMENT**
Ultra filtration system, separator, swimming pool.
- **IRRIGATION**
Farmland irrigation, irrigation, dripping irrigation.

OPERATION CONDITIONS

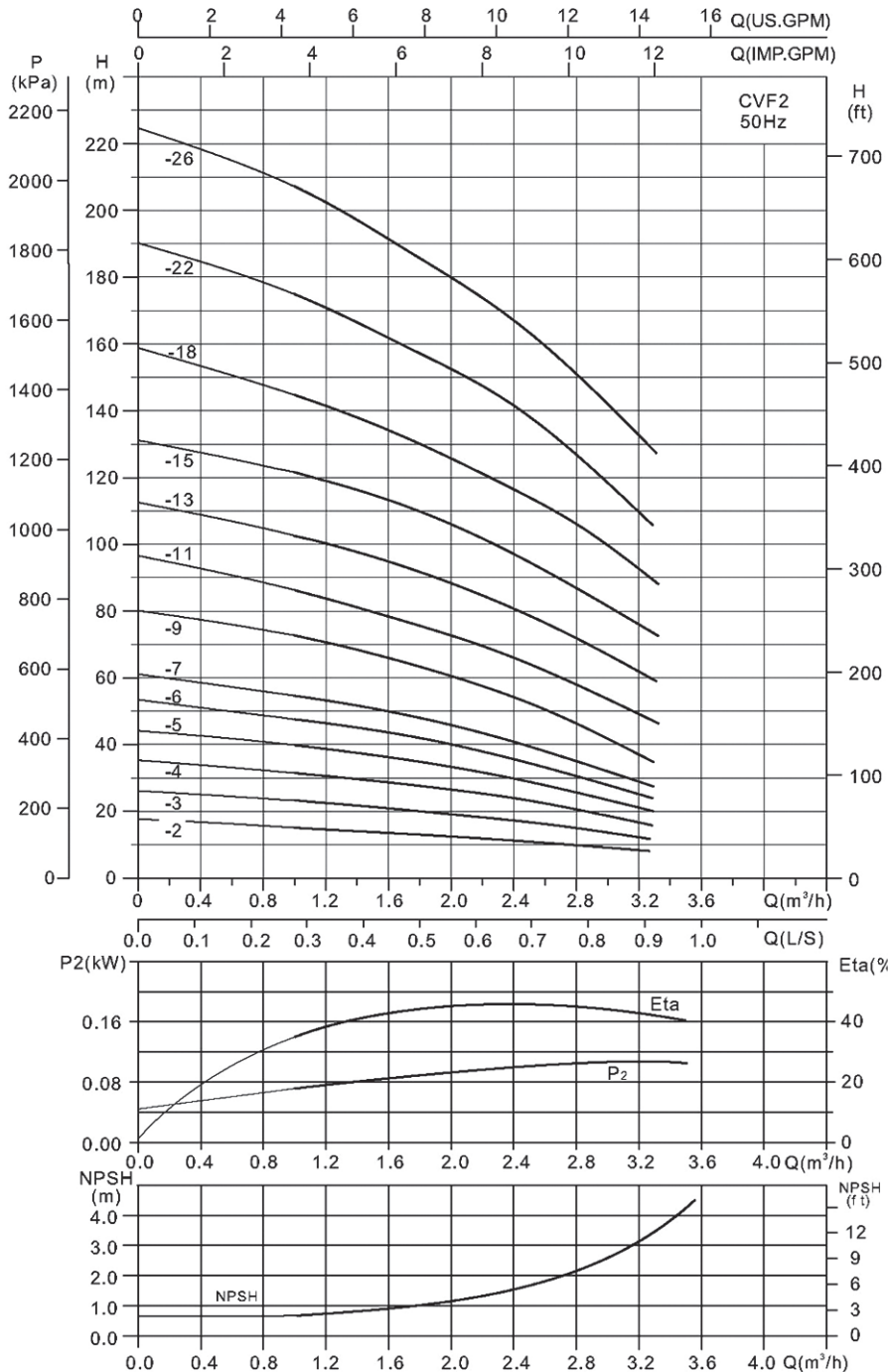
- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature: -20 ~ +104
- Ambient temperature: up to +50
- Altitude: up to 1000m
- Capacity scope: 0.5~90 m³/h, Max. Head: 330m



STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

CVF 2

PERFORMANCE CURVE



TECHNICAL DATA

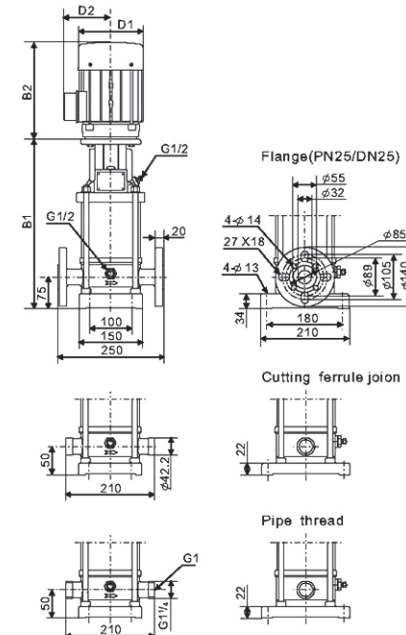
CVF 2

PERFORMANCE TABLE

Model	Power P2(kw)	Q (m³/h)	1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5
CVF2-2	0.37	H (m)	16	15	14.5	14	13	12	10	8
CVF2-3	0.37		23	12.5	21	20	19.5	18	15	12
CVF2-4	0.55		32	30	29	28	26	24	20	16
CVF2-5	0.55		40	37	36	35	32	30	25	20
CVF2-6	0.75		48	45	43	42	39	36	30	24
CVF2-7	0.75		56	52	50	49	45	42	35	28
CVF2-9	1.1		72	67	65	63	58	54	45	37
CVF2-11	1.1		88	82	79	73	71	66	55	44
CVF2-13	1.5		104	97	94	91	84	78	65	52
CVF2-15	1.5		120	112	108	105	97	90	75	60
CVF2-18	2.2		144	135	130	126	117	108	90	76
CVF2-22	2.2		176	165	159	154	143	132	110	90
CVF2-26	3.0		208	195	188	182	169	156	130	110

INSTALLATION SKETCH

SIZE & WEIGHT

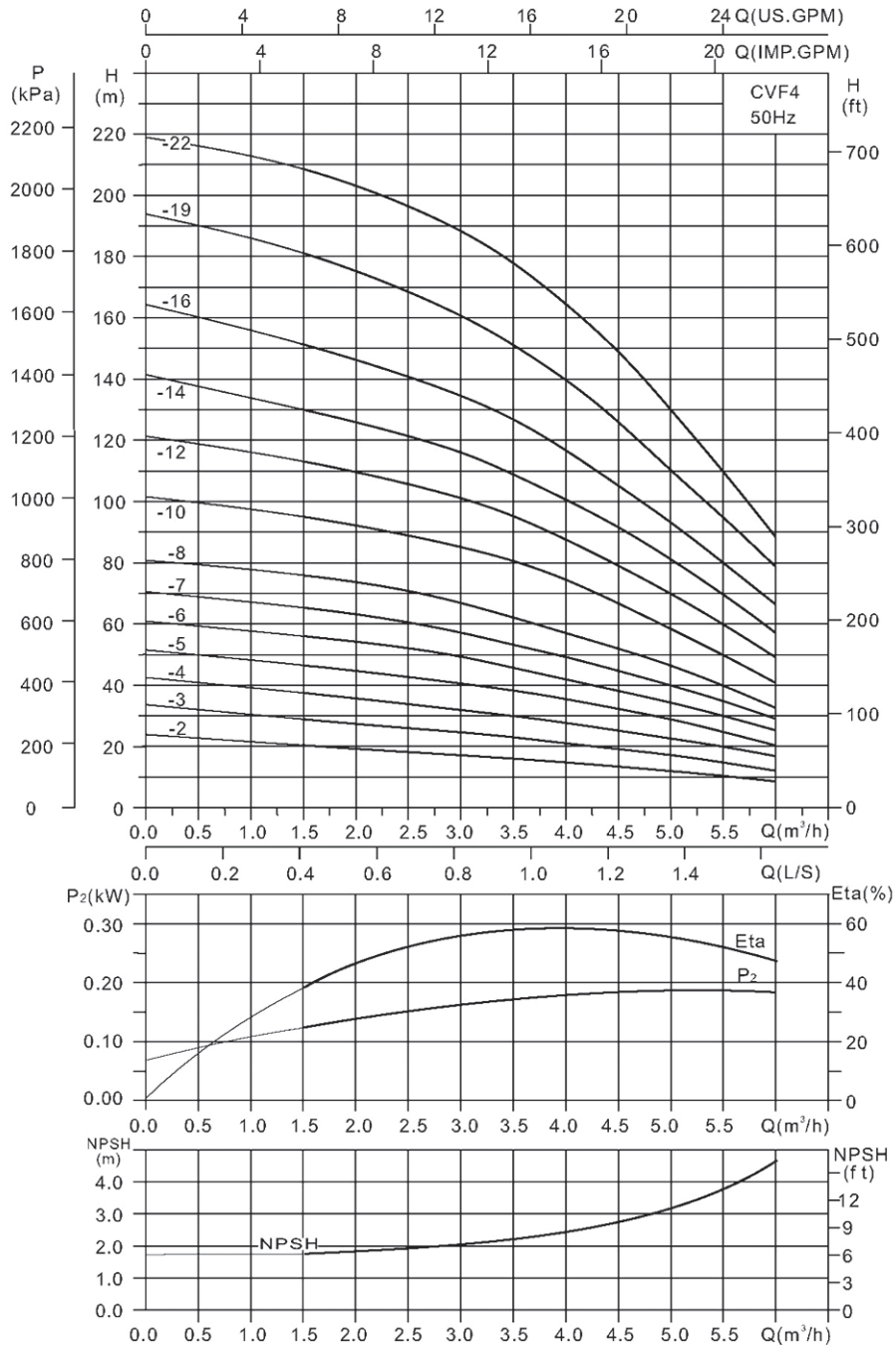


Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVF2-2	259	205	464	133	102/124	21
CVF2-3	277	205	482	133	102/124	21
CVF2-4	295	205	500	133	102/124	23
CVF2-5	313	205	518	133	102/124	23
CVF2-6	331	205	536	133	102/124	25
CVF2-7	349	205	554	133	102/124	25
CVF2-9	391	241	632	154	111/133	27
CVF2-11	427	241	668	154	111/133	27
CVF2-13	463	241/293	704	154/177	111/144.5	29
CVF2-15	499	241/293	740	154/177	111/144.5	29
CVF2-18	565	275/293	830	177	116/144.5	35
CVF2-22	637	275/293	912	177	116/144.5	38
CVF2-26	709	293	984	177	116	45

STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

PERFORMANCE CURVE

CVF 4



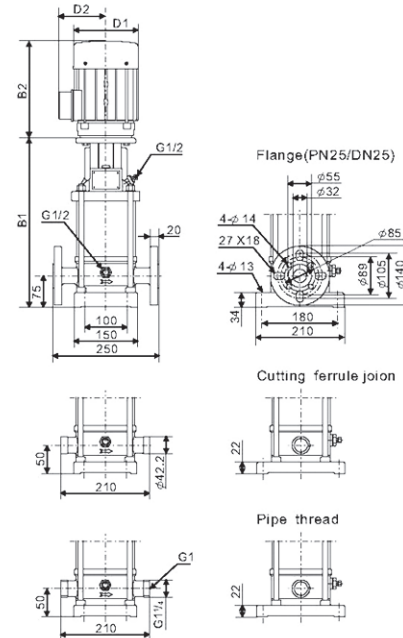
TECHNICAL DATA

PERFORMANCE TABLE

CVF 4

Model	Power P ₂ (kW)	Q (m³/h)	1.5	2.0	3.0	4.0	4.5	5.0	5.5	6.0
CVF4-2	0.37	H (m)	19	18	17	15	13	11	9	6
CVF4-3	0.55		28	27	26	22	19	17	14	10
CVF4-4	0.75		38	36	34	30	25	22	18	13
CVF4-5	1.1		47	45	43	36	31	28	23	17
CVF4-6	1.1		56	54	52	44	38	33	28	19
CVF4-7	1.5		66	63	61	51	44	39	33	22
CVF4-8	1.5		74	72	68	60	50	44	38	25
CVF4-10	2.2		93	90	86	72	63	55	45	31
CVF4-12	2.2		112	108	104	87	75	66	54	38
CVF4-14	3.0		130	126	120	102	88	77	63	45
CVF4-16	3.0		148	144	136	116	100	88	72	50
CVF4-19	4.0		176	171	162	138	119	105	86	60
CVF4-22	4.0		205	200	190	160	138	121	100	70

INSTALLATION SKETCH



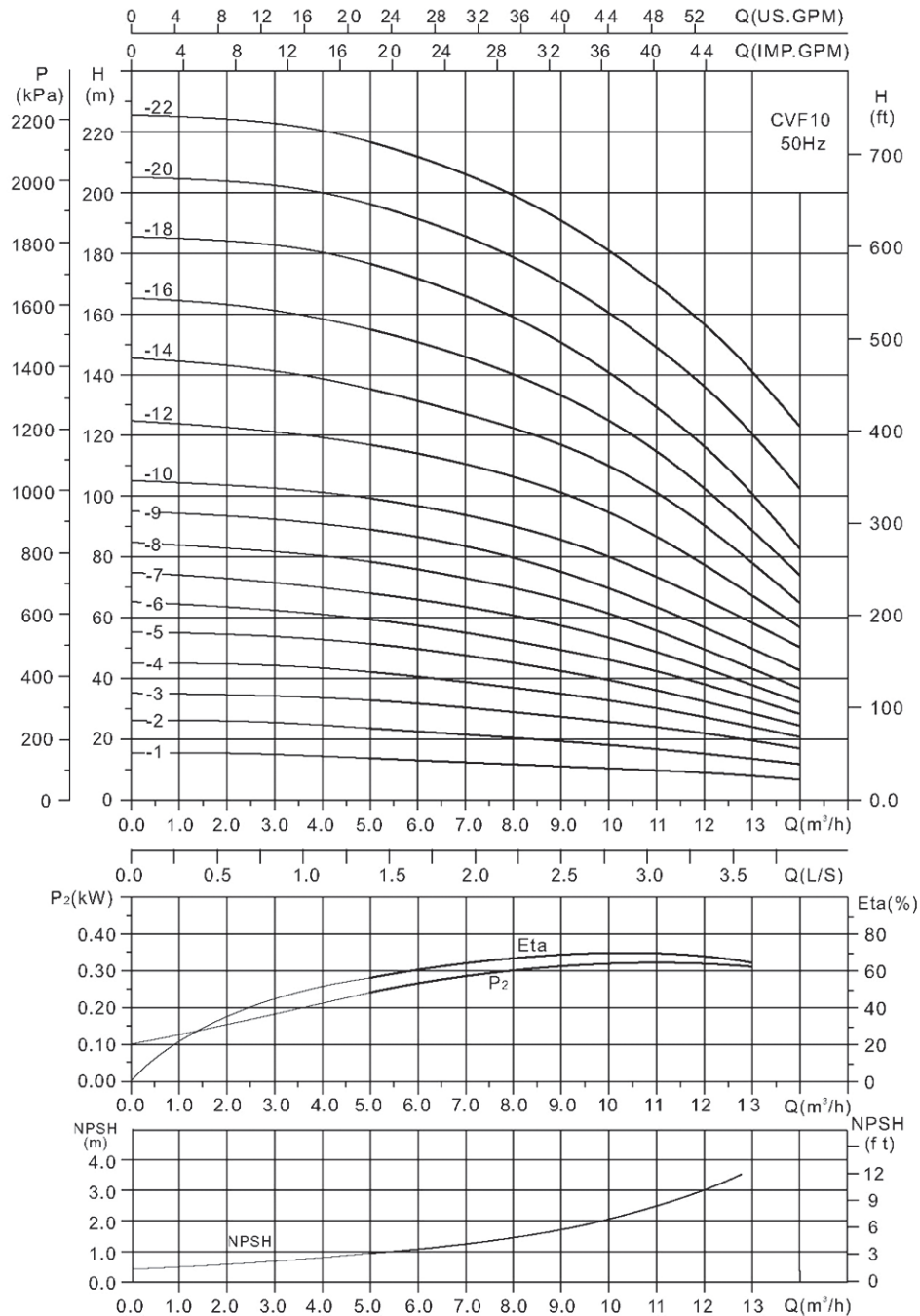
SIZE & WEIGHT

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVF4-2	259	205	464	133	102	22
CVF4-3	277	205	482	133	102	22
CVF4-4	295	205	500	133	102	23
CVF4-5	319	241	560	154	111	23
CVF4-6	337	241	578	154	111	25
CVF4-7	355	241/293	596	154	111	30
CVF4-8	373	241/293	614	154	111	30
CVF4-10	417	275/293	692	177	116	32
CVF4-12	453	275/293	728	177	116	32
CVF4-14	489	275/293	764	177	116	35
CVF4-16	525	275/293	800	197	116	39
CVF4-19	599	305	904	197	148	45
CVF4-22	653	305	958	197	148	49

STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

PERFORMANCE CURVE

CVF 10



TECHNICAL DATA

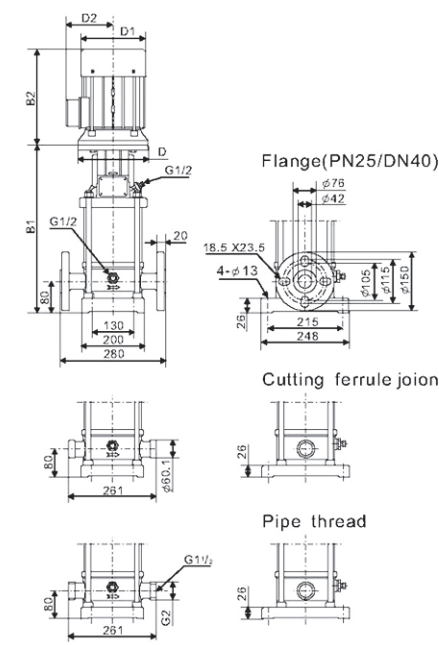
PERFORMANCE TABLE

CVF 10

Model	Power P ₂ (kW)	Q (m³/h)	2.0	4.0	6.0	8.0	10	12	14	16
CVF10-1	0.37	H (m)	10	10	9.5	8.5	8.0	6.5	5.0	3.0
CVF10-2	0.75		20.5	20	19	17	16	13	9.0	5.0
CVF10-3	1.1		30.5	30	29	26	24	20	13	8.0
CVF10-4	1.5		40.5	40	38	35	32	26	18	10
CVF10-5	2.2		51	50	48	44	40	33	22	12
CVF10-6	2.2		61	60	58	53	48	40	26	15
CVF10-7	3.0		71.5	70	67	62	56	46	31	18
CVF10-8	3.0		82	80	77	71	64	53	35	20
CVF10-9	3.0		92	90	87	80	72	60	40	22
CVF10-10	4.0		102	100	96	89	80	66	44	25
CVF10-12	4.0		122	120	116	107	96	80	53	30
CVF10-14	5.5		143	140	135	125	112	93	62	35
CVF10-16	5.5		163	160	154	143	128	106	70	40
CVF10-18	7.5		184	180	174	160	144	120	80	45
CVF10-20	7.5		204	200	193	178	160	133	88	50
CVF10-22	7.5		225	220	212	196	176	146	97	55

INSTALLATION SKETCH

SIZE & WEIGHT

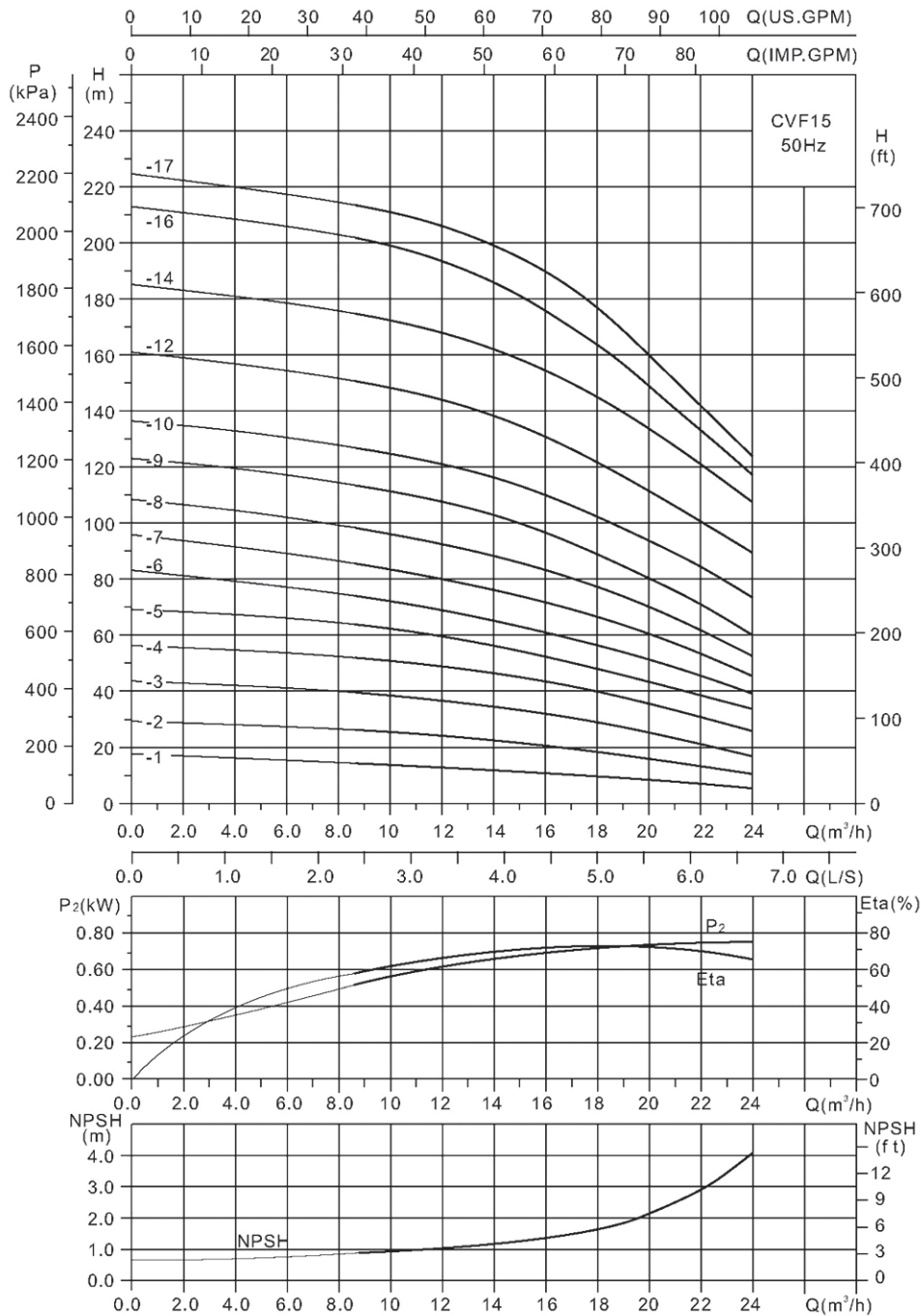


Model	Size(mm)						Weight (kg)
	B1	B2	B1+B2	D	D1	D2	
CVF10-1	319	205	524	-	133	102/124	33
CVF10-2	349	205	554	-	133	102/124	35
CVF10-3	385	241	626	-	154	111/133	38
CVF10-4	415	241/293	656	-	154/177	111/144.5	45
CVF10-5	453	275/293	728	-	177	116/144.5	48
CVF10-6	483	275/293	758	-	177	116/144.5	50
CVF10-7	513	293	788	-	177	116	55
CVF10-8	543	293	815	-	177	116	56
CVF10-9	573	293	845	-	177	116	57
CVF10-10	623	305	928	-	197	148	60
CVF10-12	683	305	988	-	197	148	63
CVF10-14	764	390	1154	300	275	210	93
CVF10-16	824	390	1214	300	275	210	95
CVF10-18	884	390	1274	300	275	210	120
CVF10-20	944	390	1334	300	275	210	123
CVF10-22	1004	390	1364	300	275	210	125

STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

PERFORMANCE CURVE

CVF 15



TECHNICAL DATA

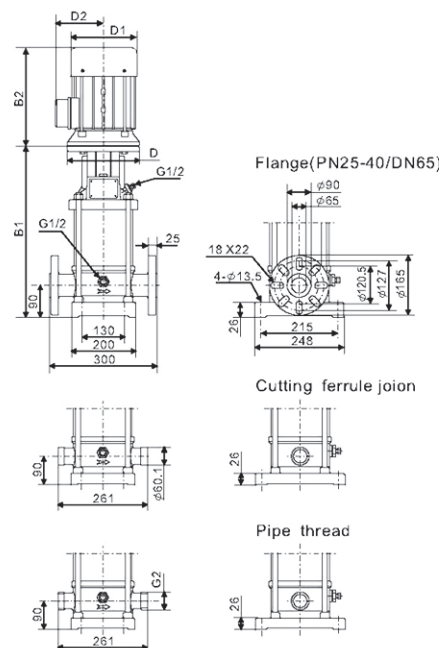
CVF 15

PERFORMANCE TABLE

Model	Power P ₂ (kW)	Q (m³/h)	8.0	10	12	14	15	16	18	20	22	24
CVF15-1	1.1	H (m)	13	12.5	12	11.5	11	10.5	10	9	8	7
CVF15-2	2.2		26	25	24	23	22	21	20	18	16	14
CVF15-3	3.0		38	37	36	34.5	33	31	30	27	24	21
CVF15-4	4.0		50	49	48	46	44	42	40	36	32	28
CVF15-5	4.0		63	62	60	57	55	52	50	45	40	35
CVF15-6	5.5		76	75	72	69	66	63	60	54	48	42
CVF15-7	5.5		89	87	84	80	77	73	70	63	56	49
CVF15-8	7.5		102	100	96	92	88	84	80	72	64	56
CVF15-9	7.5		115	112	108	103	99	94	90	81	72	63
CVF15-10	11		127	125	120	115	110	105	100	90	80	70
CVF15-12	11		153	150	144	138	132	126	120	108	96	84
CVF15-14	11		178	175	168	161	154	147	140	126	112	98
CVF15-16	15		204	200	192	184	176	168	160	144	128	112
CVF15-17	15		216	212	204	195	187	178	170	153	136	119

INSTALLATION SKETCH

SIZE & WEIGHT

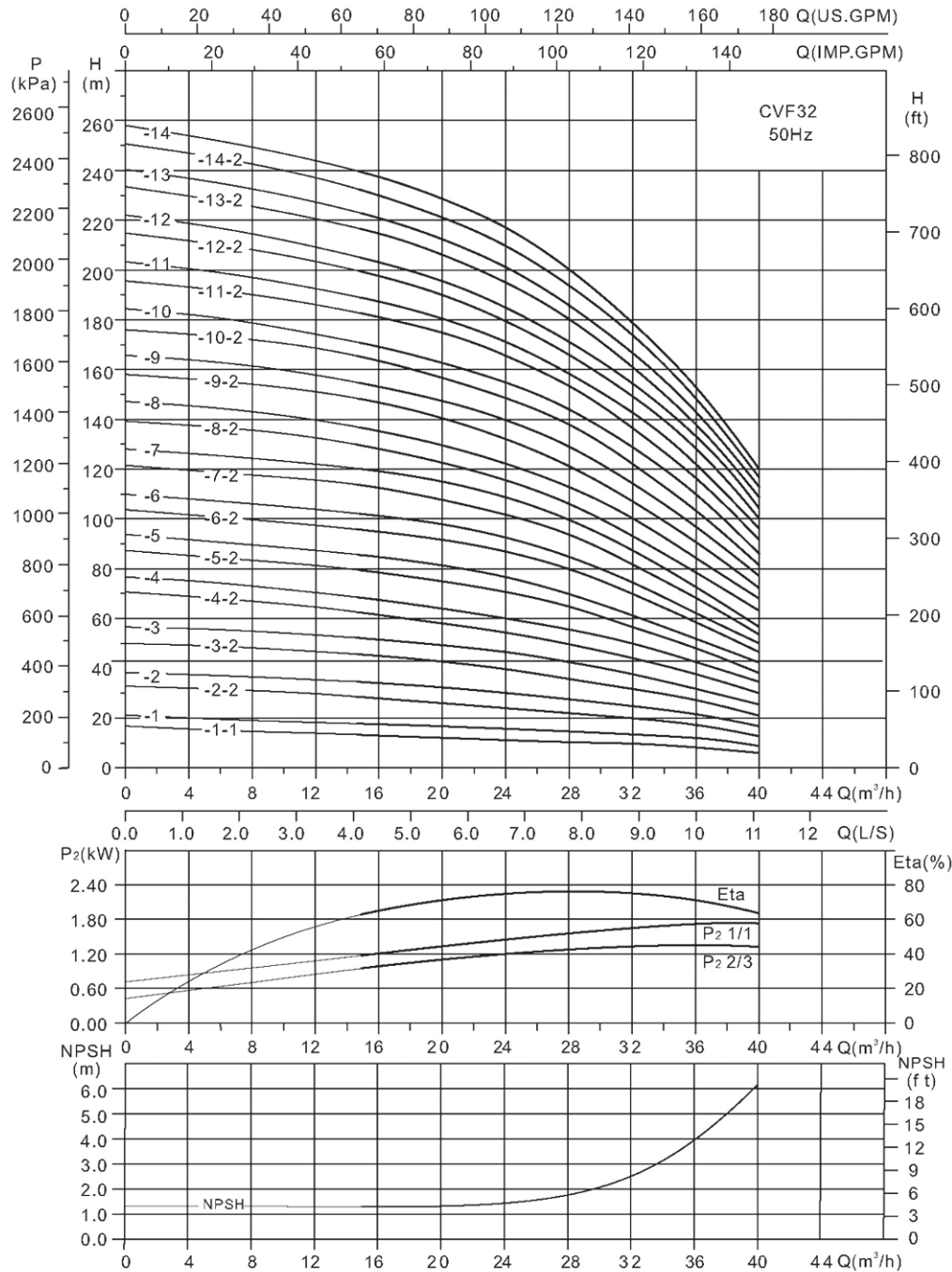


Model	Size(mm)						Weight (kg)
	B1	B2	B1+B2	D	D1	D2	
CVF15-1	350	241	591	-	154	111	40
CVF15-2	403	275/293	678	-	177	116	45
CVF15-3	448	293	723	-	177	116	50
CVF15-4	513	305	768	-	197	148	55
CVF15-5	558	305	863	-	197	148	58
CVF15-6	624	390	1014	300	275	210	90
CVF15-7	669	390	1059	300	275	210	93
CVF15-8	714	390	1104	300	275	210	97
CVF15-9	759	390	1149	300	275	210	98
CVF15-10	824	505	1325	350	330	255	140
CVF15-12	914	505	1415	350	330	255	144
CVF15-14	1004	505	1505	350	330	255	147
CVF15-16	1094	505	1595	350	330	255	148
CVF15-17	1139	505	1640	350	330	255	160

STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

PERFORMANCE CURVE

CVF 32

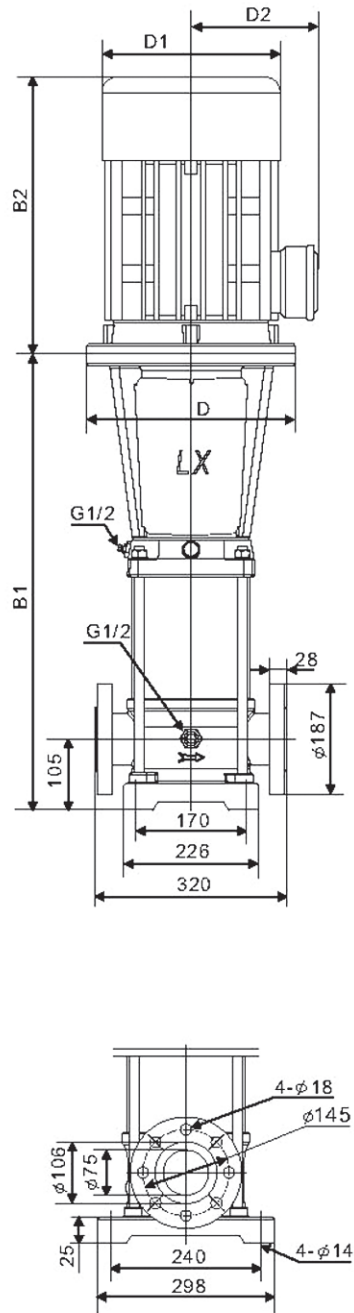


TECHNICAL DATA

PERFORMANCE TABLE

CVF 32

Model	Power P ₂ (kW)	Q (m³/h)	12	16	20	24	28	30	32	36	40
CVF32-1-1	1.5	H (m)	15	14	13	12	11	10.5	10	9	6
CVF32-1	2.2		17.5	17	16.5	15.5	14.5	13.5	12.5	10	8.5
CVF32-2-2	3.0		30	28	26	24	22	21	20	18	12
CVF32-2	4.0		35	34	33	31	29	26	25	20	17
CVF32-3-2	4.0		47	45	42	39	36	34	32	28	20
CVF32-3	5.5		52	51	49	47	43	40	37	30	25
CVF32-4-2	7.5		65	62	59	55	51	47	45	38	29
CVF32-4	7.5		70	68	66	62	58	52	50	40	34
CVF32-5-2	11		82	79	75	71	66	61	57	48	37
CVF32-5	11		87	85	82	78	72	66	62	50	42
CVF32-6-2	11		99	98	94	87	82	73	70	58	46
CVF32-6	11		104	102	98	93	85	79	74	61	49
CVF32-7-2	15		117	113	108	103	94	87	82	68	54
CVF32-7	15		122	119	115	109	100	93	87	72	58
CVF32-8-2	15	134	130	124	117	107	100	94	78	66	
CVF32-8	15	140	136	132	124	119	104	100	80	68	
CVF32-9-2	18.5	152	147	141	133	122	114	107	88	70	
CVF32-9	18.5	157	153	148	140	130	118	112	90	76	
CVF32-10-2	18.5	170	164	158	148	141	125	120	98	80	
CVF32-10	18.5	174	170	164	156	144	132	124	100	84	
CVF32-11-2	22	187	181	174	164	152	139	132	108	88	
CVF32-11	22	191	187	180	171	157	145	136	111	91	
CVF32-12-2	22	204	198	190	180	166	153	144	118	96	
CVF32-12	22	208	202	196	186	170	158	148	122	98	
CVF32-13-2	30	221	215	206	195	179	166	156	129	103	
CVF32-13	30	226	221	213	202	185	172	161	133	107	
CVF32-14-2	30	238	230	222	210	192	179	168	140	110	
CVF32-14	30	244	238	230	218	200	186	174	144	119	

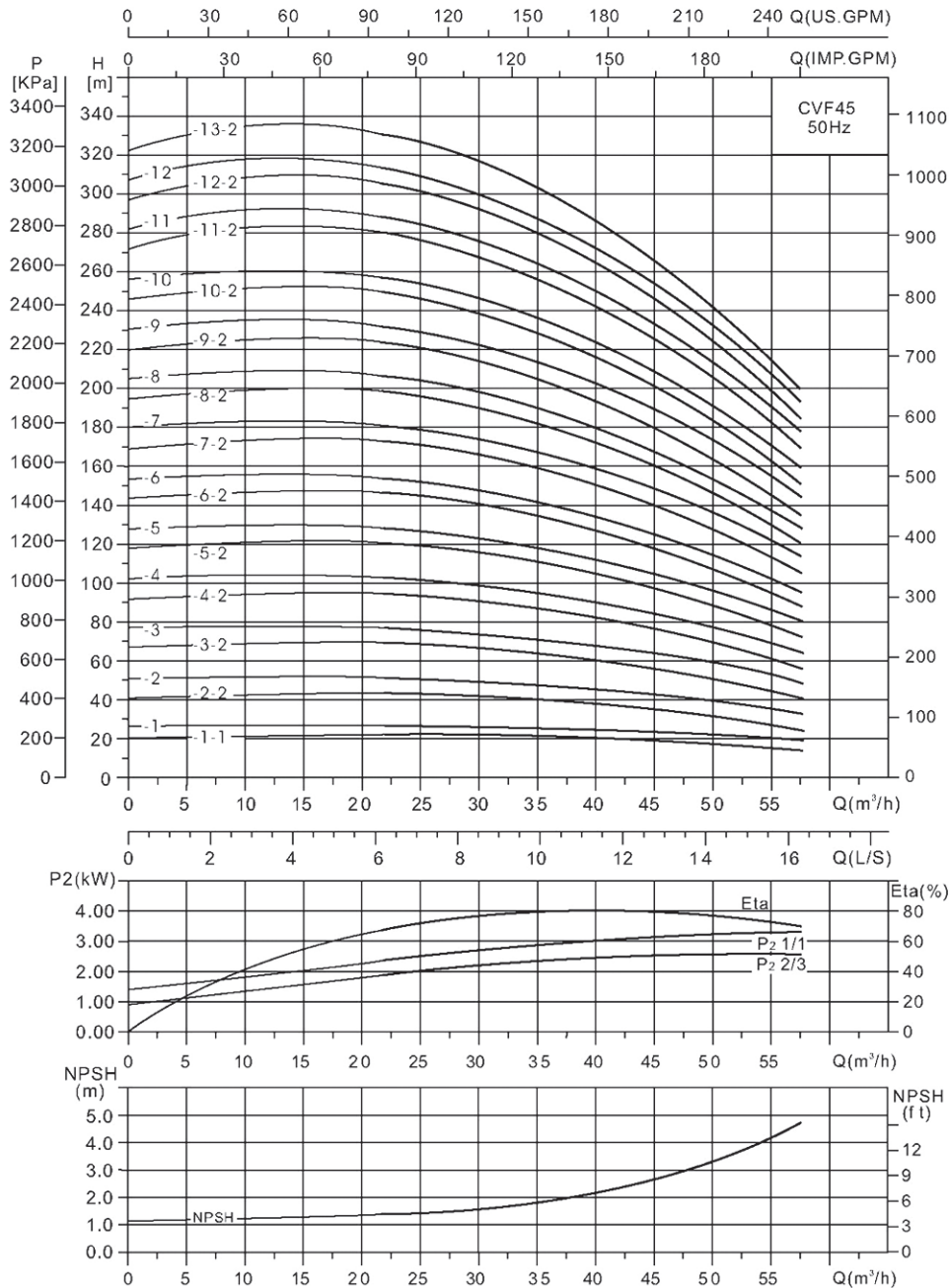


Model	Size(mm)						Weight (kg)
	B1	B2	B1+B2	D	D1	D2	
CVF32-1-1	455	241/293	696	-	154	111	60
CVF32-1	455	275/293	730	-	177	116	61
CVF32-2-2	525	293	800	-	177	116	75
CVF32-2	525	305	830	-	197	148	86
CVF32-3-2	595	305	900	-	197	148	105
CVF32-3	620	390	1010	300	275	210	105
CVF32-4-2	690	390	1080	300	275	210	116
CVF32-4	690	390	1080	300	275	210	117
CVF32-5-2	915	505	1420	350	330	255	170
CVF32-5	915	505	1420	350	330	255	171
CVF32-6-2	985	505	1490	350	330	255	176
CVF32-6	985	505	1490	350	330	255	176
CVF32-7-2	1055	505	1560	350	330	255	206
CVF32-7	1055	505	1560	350	330	255	207
CVF32-8-2	1125	505	1630	350	330	255	208
CVF32-8	1125	505	1630	350	330	255	209
CVF32-9-2	1195	560	1750	350	330	255	225
CVF32-9	1195	560	1750	350	330	255	226
CVF32-10-2	1265	560	1820	350	330	255	230
CVF32-10	1265	560	1820	350	330	255	231
CVF32-11-2	1335	590	1925	350	380	280	270
CVF32-11	1335	590	1925	350	380	280	271
CVF32-12-2	1405	590	1995	350	380	280	275
CVF32-12	1405	590	1995	350	380	280	276
CVF32-13-2	1475	660	2135	400	420	305	395
CVF32-13	1475	660	2135	400	420	305	395
CVF32-14-2	1525	660	2185	400	420	305	400
CVF32-14	1525	660	2185	400	420	305	400

STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

PERFORMANCE CURVE

CVF 45



TECHNICAL DATA

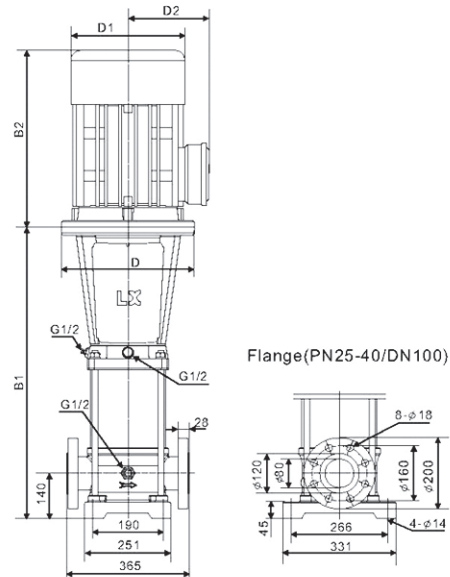
PERFORMANCE TABLE

CVF 45

Model	Power P2(kw)	Q (m³/h)	25	30	35	40	45	50	55
CVF45-1-1	3.0	H (m)	20	19	18	17	15	13	11
CVF45-1	4.0		24	23	22	21	19	18	16
CVF45-2-2	5.5		40	38	36	33	30	27	23
CVF45-2	7.5		48	46	44	42	39	35	31
CVF45-3-2	11		63	61	58	54	50	44	38
CVF45-3	11		71	69	66	63	58	53	47
CVF45-4-2	15		87	84	80	75	69	62	54
CVF45-4	15		95	92	88	84	78	71	62
CVF45-5-2	18.5		111	107	102	96	88	80	69
CVF45-5	18.5		119	115	110	105	97	88	78
CVF45-6-2	22		135	130	124	117	108	97	85
CVF45-6	22		143	138	132	125	116	106	93
CVF45-7-2	30		158	152	146	138	127	115	100
CVF45-7	30	166	161	154	146	135	124	109	
CVF45-8-2	30	182	175	168	159	146	133	116	
CVF45-8	30	190	184	176	167	154	141	124	
CVF45-9-2	30	205	1998	190	180	166	150	132	
CVF45-9	37	214	207	198	188	174	159	140	
CVF45-10-2	37	230	221	212	200	185	168	147	
CVF45-10	37	238	230	220	209	193	177	155	
CVF45-11-2	45	255	246	236	223	206	188	165	
CVF45-11	45	263	255	244	232	214	196	173	
CVF45-12-2	45	280	270	259	245	226	206	181	
CVF45-12	45	289	280	268	255	236	216	190	
CVF45-13-2	45	305	294	282	267	247	225	198	

INSTALLATION SKETCH

SIZE & WEIGHT

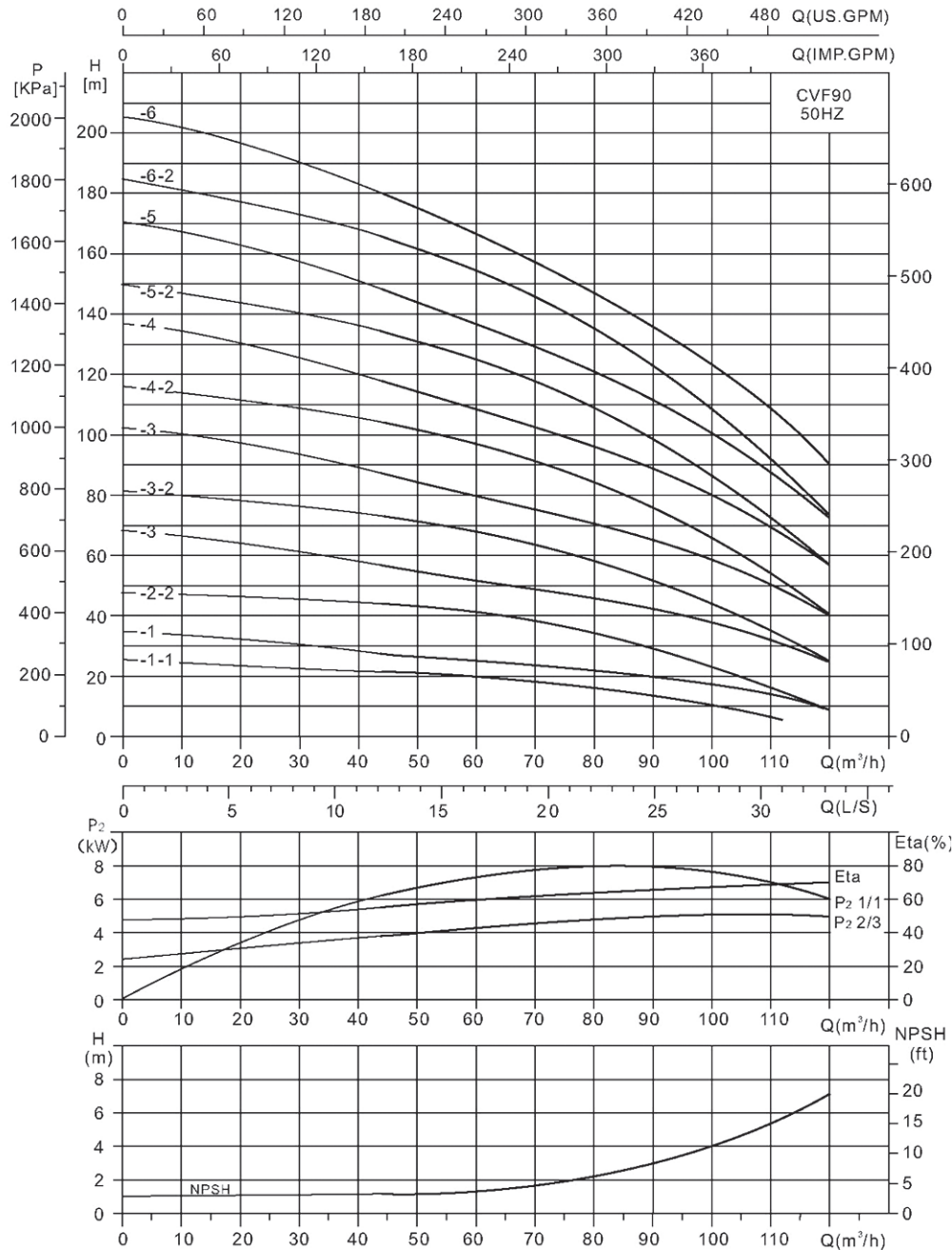


Model	Size(mm)						Weight (kg)
	B1	B2	B1+B2	D	D1	D2	
CVF45-1-1	561	293	876	-	197	165	86
CVF45-1	561	315	876	-	260	165	86
CVF45-2-2	641	430	1071	300	260	208	102
CVF45-2	641	430	1071	300	330	208	102
CVF45-3-2	826	490	1316	350	330	255	175
CVF45-3	826	490	1316	350	330	255	175
CVF45-4-2	906	490	1396	350	330	255	187
CVF45-4	906	490	1396	350	330	255	187
CVF45-5-2	986	550	1536	350	330	255	208
CVF45-5	986	550	1536	350	330	255	208
CVF45-6-2	1066	590	1656	350	360	285	251
CVF45-6	1066	590	1656	350	360	285	251
CVF45-7-2	1146	660	1806	400	420	310	315
CVF45-7	1146	660	1806	400	420	310	315
CVF45-8-2	1226	660	1886	400	420	310	319
CVF45-8	1226	660	1886	400	420	310	319
CVF45-9-2	1306	660	1966	400	420	310	323
CVF45-9	1306	660	1966	400	420	310	323
CVF45-10-2	1386	660	2046	400	420	310	347
CVF45-10	1386	660	2046	400	420	310	347
CVF45-11-2	1466	700	2166	450	470	345	413
CVF45-11	1466	700	2166	450	470	345	413
CVF45-12-2	1546	700	2246	450	470	345	417
CVF45-12	1546	700	2246	450	470	345	417
CVF45-13-2	1626	700	2326	450	470	345	421

STAINLESS STEEL VERTICAL MULTISTAGE CENTRIFUGAL PUMP

PERFORMANCE CURVE

CVF 90



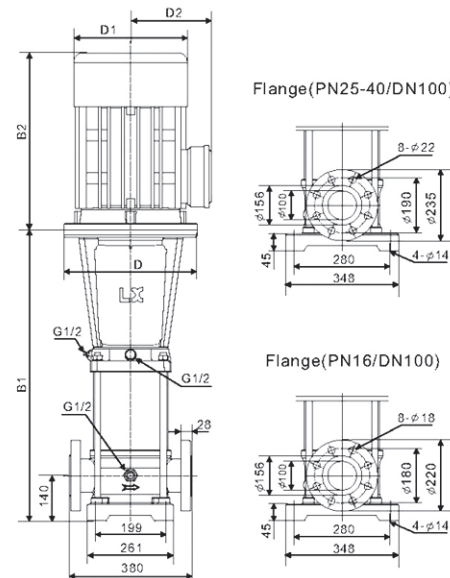
TECHNICAL DATA

PERFORMANCE TABLE

CVF 90

Model	Power P ₂ (kW)	Q (m³/h)	50	60	70	80	85	90	100	110
CVF90-1-1	5.5	H (m)	22	19	17	16	14	13	10	6
CVF90-1	7.5		25	24	22	21	20	19	16	12
CVF90-2-2	11		41	39	36	32	30	28	22	15
CVF90-2	15		53	50	47	44	41	40	36	30
CVF90-3-2	18.5		68	65	60	55	52	49	41	32
CVF90-3	22		81	77	72	67	64	62	55	48
CVF90-4-2	30		98	93	87	80	75	72	62	50
CVF90-4	30		110	105	100	92	86	84	76	66
CVF90-5-2	37		126	120	113	104	98	93	81	68
CVF90-5	37		139	131	124	115	110	106	94	83
CVF90-6-2	45		155	148	139	129	122	117	102	86
CVF90-6	45		168	160	150	141	134	130	117	103

INSTALLATION SKETCH



SIZE & WEIGHT

Model	Size(mm)						Weight (kg)
	B1	B2	B1+B2	D	D1	D2	
CVF90-1-1	571	430	1001	300	260	208	120
CVF90-1	571	430	1001	300	260	208	122
CVF90-2-2	773	490	1263	350	330	255	165
CVF90-2	773	490	1263	350	330	255	198
CVF90-3-2	865	550	1415	350	330	255	212
CVF90-3	865	590	1455	350	360	285	265
CVF90-4-2	957	660	1617	400	420	310	348
CVF90-4	957	660	1617	400	420	310	348
CVF90-5-2	1049	660	1709	400	420	310	375
CVF90-5	1049	660	1709	400	420	310	375
CVF90-6-2	1141	700	1841	450	470	345	438
CVF90-6	1141	700	1841	450	470	345	438

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CVF VERTICAL
S E R I E S MULTISTAGE
CENTRIFUGAL
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