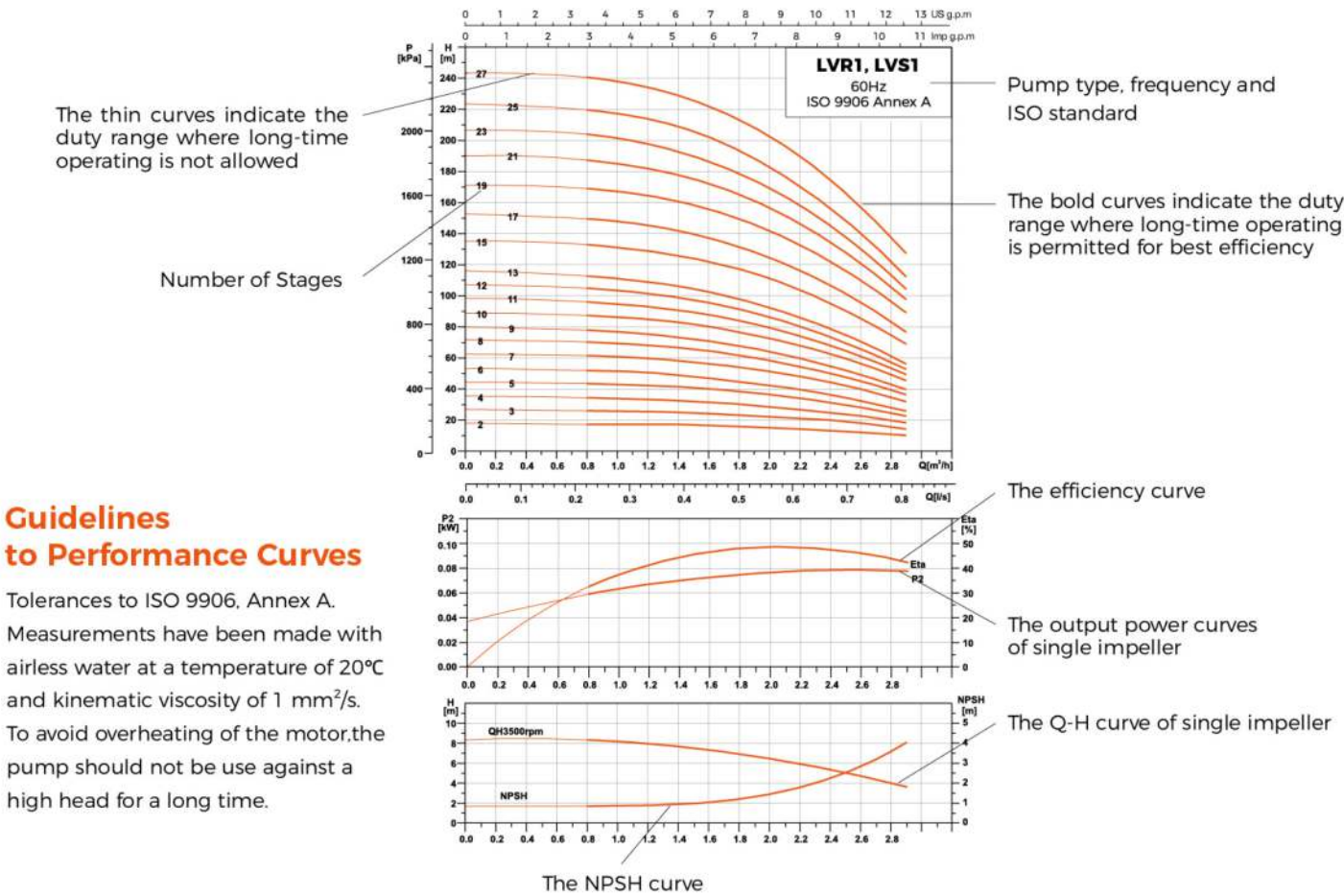


How to Read the Curve Charts



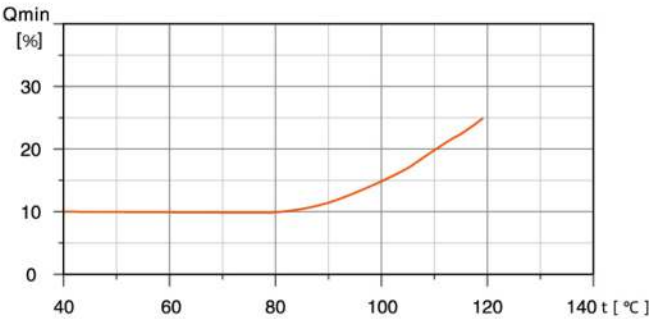
Guidelines to Performance Curves

Tolerances to ISO 9906, Annex A.
Measurements have been made with airless water at a temperature of 20°C and kinematic viscosity of 1 mm²/s.
To avoid overheating of the motor, the pump should not be used against a high head for a long time.

Minimum Flow Rate

Due to the risk of overheating, the pump should not be used at a flow below the minimum flow rate. The curve below shows the minimum flow rate as a percentage of the nominal flow rate in relation to the liquid temperature.

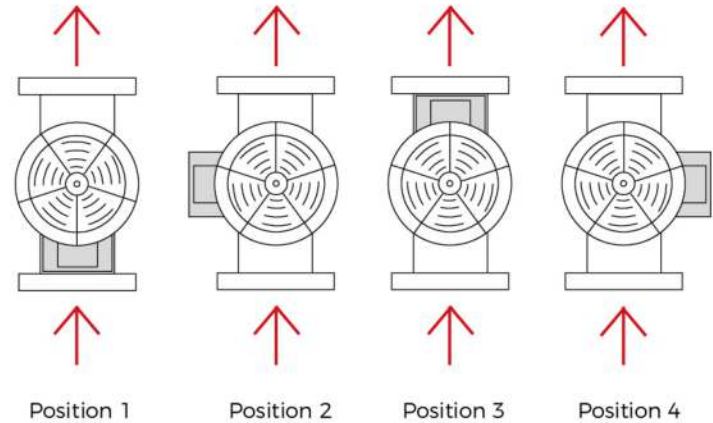
Air cooling apparatus



Note: The outlet valve must be opened when the pump is in operation.

Terminal Box Positions

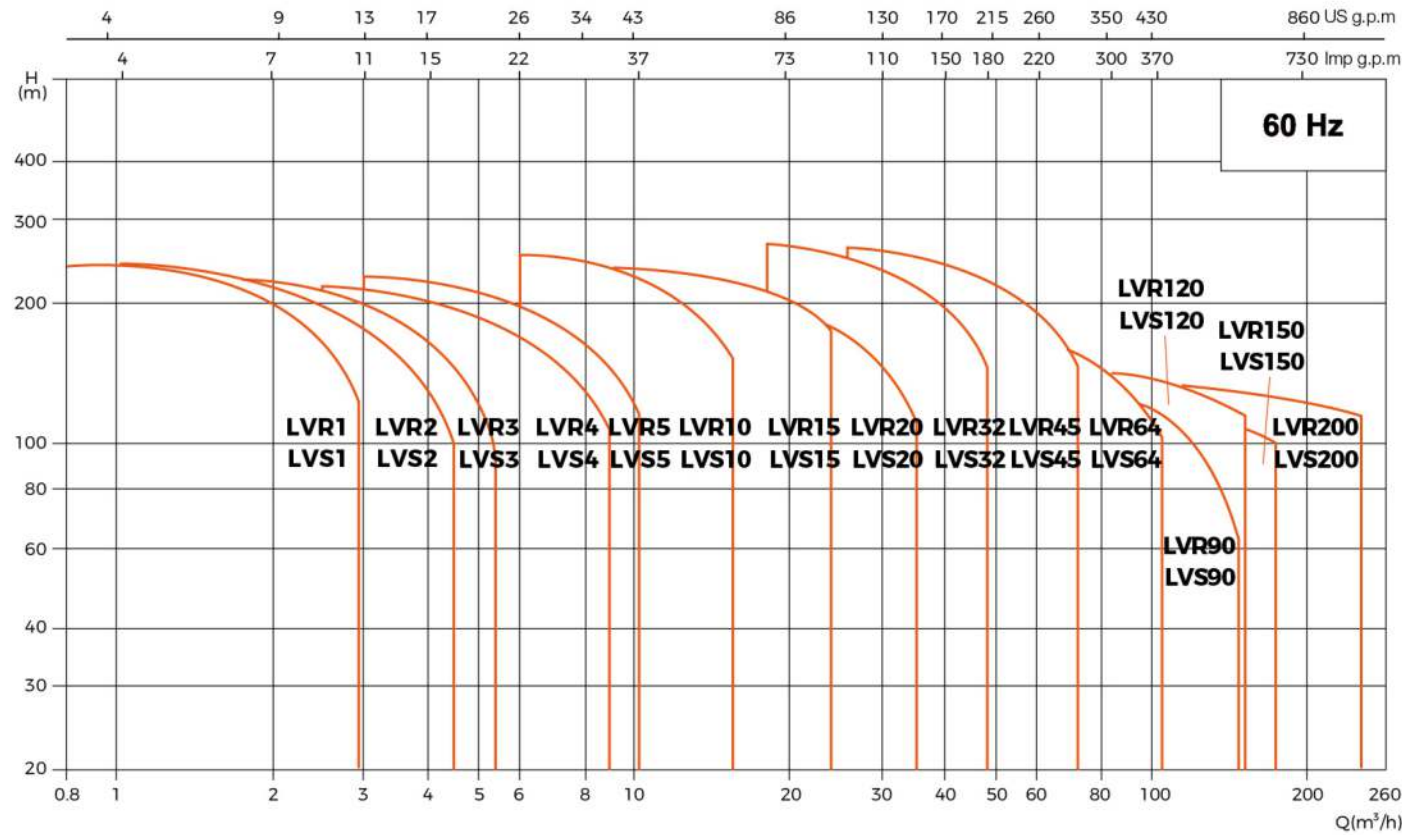
(Note: set to position 1 before delivery)



Product Range

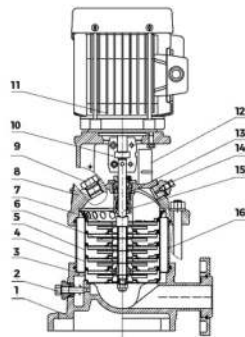
Model	LVR(S) 1	LVR(S) 2	LVR(S) 3	LVR(S) 4	LVR(S) 5	LVR(S) 10	LVR(S) 15	LVR(S) 20	LVR(S) 32	LVR(S) 45	LVR(S) 64	LVR(S) 90	LVR(S) 120	LVR(S) 150	LVR(S) 200
Description															
Rated flow(m³/h)	2.2	3	3.6	7	6.8	12	20	25	36	54	77	108	120	150	200
Flow range(m³/h)	0.8-2.9	1-4.5	1.4-5.4	2-9	3-10.2	6-16	10-29	13-35	18-48	26-70	36-102	54-146	60-160	80-180	100-240
Max.pressure(bar)	24	25	24	25	24	25	24	21	27	26	18	16			
Motor power(kW)	0.37-3	0.37-4	0.37-4	0.75-4	0.55-4	0.75-11	1.5-18.5	2.2-18.5	2.2-30	5.5-45	7.5-45	11-45	15-75	15-75	30-110
Temperature range(°C)	-20°C ~+120°C (Note: Both the Max. permissible pressure and liquid temperature range refer to the pump capacity.)														
Max.pump efficiency(%)	49	48	59	59	67	70	72	72	76	78	79	80	74	73	78
Pipe connection-LVR															
Oval flange (Standard)	G1	G1	G1	G1¼	G1¼	-	-	-	-	-	-	-	-	-	-
DIN flange	DN25	DN25	DN25	DN32	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Pipe connection-LVS															
Oval flange	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIN flange (Standard)	DN32	DN32	DN32	DN32	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Clamp connector	Φ42	Φ42	Φ42	Φ42	Φ42	-	-	-	-	-	-	-	-	-	-
Threaded connector	G 1¼	G 1¼	G 1¼	G 1¼	G 1¼	-	-	-	-	-	-	-	-	-	-

Scope of Performance-LVR,LVS



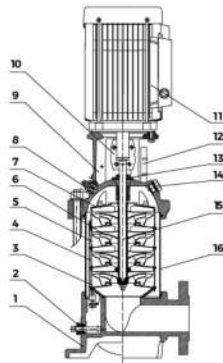
LVS/LVR
Stainless Steel Vertical
Multistage Pump

Cross Section



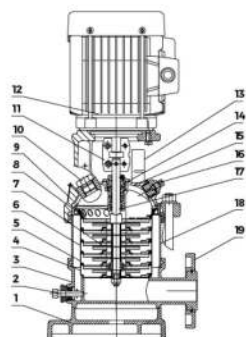
MODEL: LVR1 (2,3,4,5)

No.	Part	Material
1	Base	HT 200
2	Drain bolt assembly	AISI 304
3	Primary diffuser	AISI 304
4	Diffuser with bearing	AISI 304
5	Medium diffuser	AISI 304
6	Impeller	AISI 304
7	Final diffuser	AISI 304
8	Motor base	HT 200
9	Filling plug(optional)	AISI 304
10	Coupling	Iron based powder metallurgy
11	Motor	
12	Guard plate	AISI 304
13	Cartridge seal	
14	Vent valve assembly	AISI 304
15	Pump shaft	AISI 316
16	Pump barrel	AISI 304



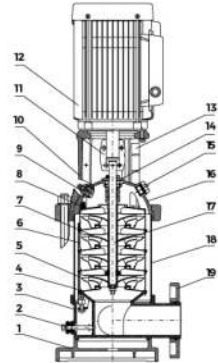
MODEL: LVR10 (15,20)

No.	Part	Material
1	Base	HT 200
2	Drain bolt assembly	AISI 304
3	Primary diffuser	AISI 304
4	Diffuser with bearing	AISI 304
5	Medium diffuser	AISI 304
6	Impeller	AISI 304
7	Final diffuser	AISI 304
8	Vent valve assembly	AISI 304
9	Motor base	HT 200
10	Coupling	Iron based powder metallurgy/QT400
11	Motor	
12	Guard plate	AISI 304
13	Cartridge seal	
14	Filling plug(optional)	AISI 304
15	Pump shaft	AISI 316
16	Pump barrel	AISI 304



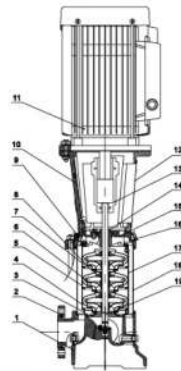
MODEL: LVS1 (2,3,4,5)

No.	Part	Material	Optional Material
1	Base plate	ADC 12	
2	Drain bolt assembly	AISI 304	AISI 316
3	Pedestal	AISI 304	AISI 316
4	Primary diffuser	AISI 304	AISI 316
5	Diffuser with bearing	AISI 304	AISI 316
6	Medium diffuser	AISI 304	AISI 316
7	Impeller	AISI 304	AISI 316
8	Final diffuser	AISI 304	AISI 316
9	Motor base	HT 200	
10	Filling plug(optional)	AISI 304	
11	Coupling	Iron based powder metallurgy	
12	Motor		
13	Guard plate	AISI 304	
14	Cartridge seal		
15	Pump cover	AISI 304	AISI 316
16	Vent valve assembly	AISI 304	AISI 316
17	Pump shaft	AISI 316	
18	Pump barrel	AISI 304	AISI 316
19	Flange	ZG 35	



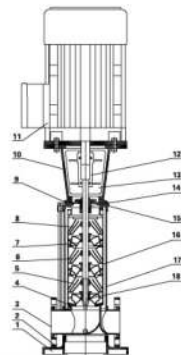
MODEL: LVS10 (15,20)

No.	Part	Material	Optional Material
1	Base plate	ADC 12	
2	Drain bolt assembly	AISI 304	AISI 316
3	Pedestal	AISI 304	AISI 316
4	Primary diffuser	AISI 304	AISI 316
5	Diffuser with bearing	AISI 304	AISI 316
6	Medium diffuser	AISI 304	AISI 316
7	Impeller	AISI 304	AISI 316
8	Final diffuser	AISI 304	AISI 316
9	Vent valve assembly	AISI 304	AISI 316
10	Motor base	HT 200	
11	Coupling	Iron based powder metallurgy/QT400	
12	Motor		
13	Guard plate	AISI 304	
14	Cartridge seal		
15	Filling plug(optional)	AISI 304	
16	Pump cover	AISI 304	AISI 316
17	Pump shaft	AISI 316	
18	Pump barrel	AISI 304	AISI 316
19	Flange	ZG 35	



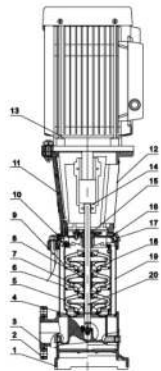
MODEL: LVR32 (45,64,90)

No.	Part	Material
1	Base	HT 200
2	Flange	ZG 35
3	Primary diffuser	AISI 304
4	Medium diffuser	AISI 304
5	Diffuser with bearing	AISI 304
6	Impeller	AISI 304
7	Driver	
8	Final diffuser	AISI 304
9	Vent valve assembly	AISI 304
10	Motor base	HT 200
11	Motor	
12	Guard plate	AISI 304
13	Coupling	QT 400
14	Cartridge seal	
15	Pump head	HT 200
16	Filling plug	AISI 304
17	Tension strip	AISI 304
18	Pump barrel	AISI 304
19	Pump shaft	AISI 304



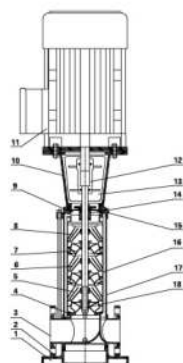
MODEL: LVR120 (150,200)

No.	Part	Material
1	Base plate	HT 200
2	Flange	ZG 35
3	Base	HT 200
4	Primary diffuser	AISI 304
5	Diffuser with bearing	AISI 304
6	Medium diffuser	AISI 304
7	Impeller	AISI 304
8	Final diffuser	AISI 304
9	Pump head	HT 200
10	Motor base	HT 200
11	Motor	
12	Coupling	QT 400
13	Guard plate	AISI 304
14	Cartridge seal	
15	Filling plug	AISI 304
16	Tension strip	AISI 304
17	Pump barrel	AISI 304
18	Pump shaft	AISI 304



MODEL: LVS32 (45,64,90)

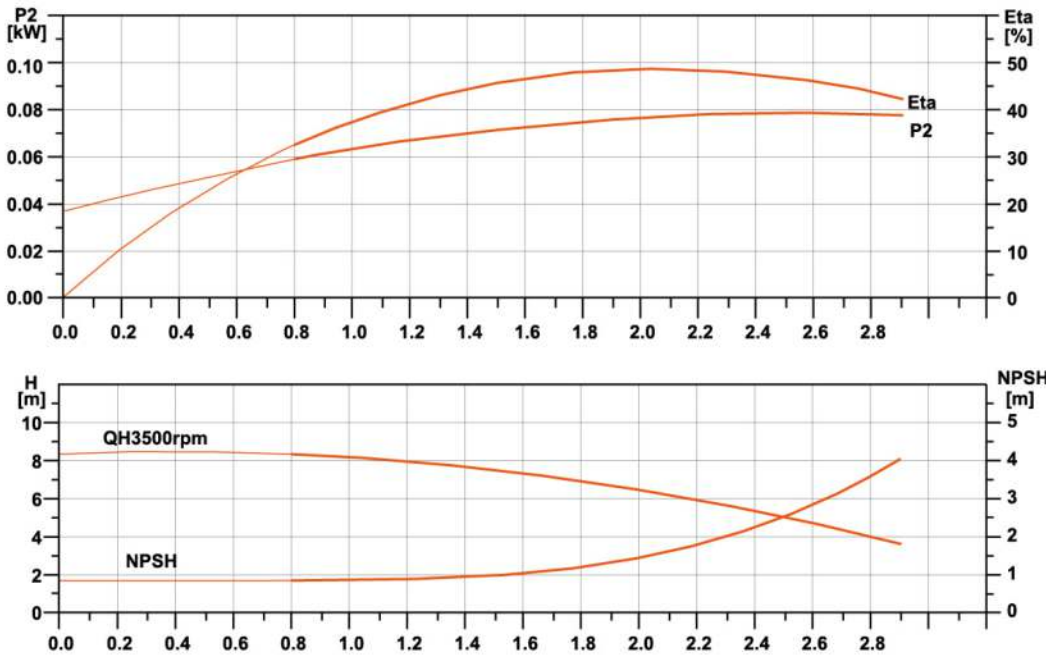
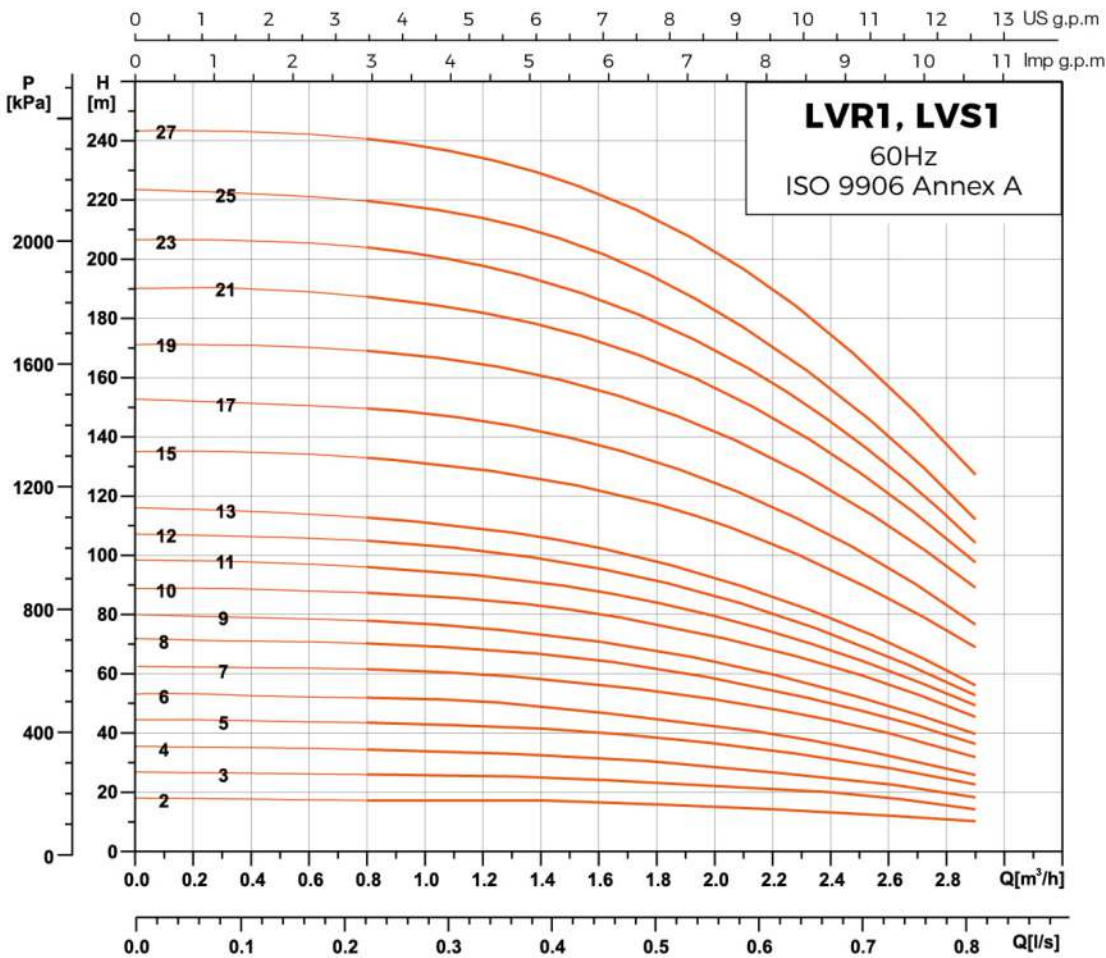
No.	Part	Material	Optional Material
1	Base plate	HT 200	
2	Flange	ZG35	
3	Pedestal	AISI 304	AISI 316
4	Primary diffuser	AISI 304	AISI 316
5	Medium diffuser	AISI 304	AISI 316
6	Diffuser with bearing	AISI 304	AISI 316
7	Impeller	AISI 304	AISI 316
8	Driver		
9	Final diffuser	AISI 304	AISI 316
10	Vent valve assembly	AISI 304	AISI 316
11	Motor base	HT 200	
12	Guard plate	AISI 304	
13	Motor		
14	Coupling	QT 400	
15	Cartridge seal		
16	Pump head	AISI 304	AISI 316
17	Filling plug	AISI 304	AISI 316
18	Tension strip	AISI 304	AISI 316
19	Pump barrel	AISI 304	AISI 316
20	Pump shaft	AISI 304	AISI 316



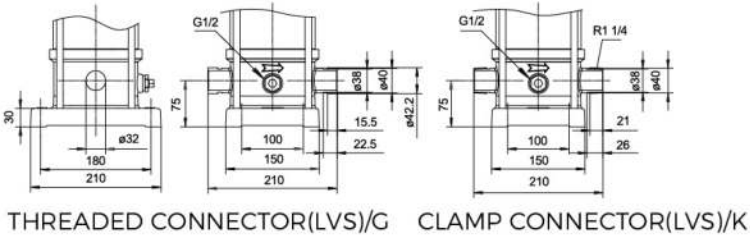
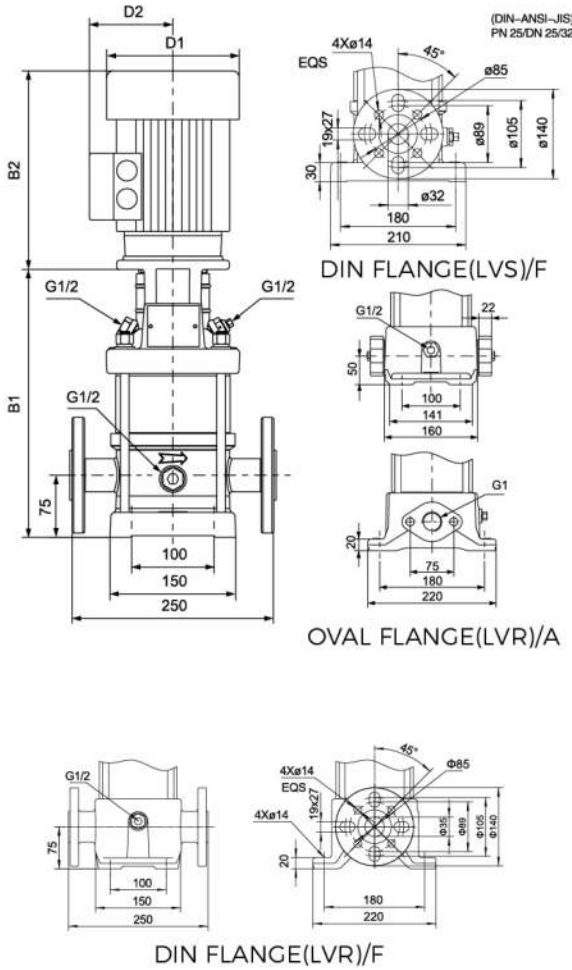
MODEL: LVS120 (150,200)

No.	Part	Material	Optional Material
1	Base plate	HT 200	
2	Flange	ZG 35	
3	Pedestal	AISI 304	AISI 316
4	Primary diffuser	AISI 304	AISI 316
5	Diffuser with bearing	AISI 304	AISI 316
6	Medium diffuser	AISI 304	AISI 316
7	Impeller	AISI 304	AISI 316
8	Final diffuser	AISI 304	AISI 316
9	Pump head	AISI 304	AISI 316
10	Motor base	HT 200	
11	Motor		
12	Coupling	QT 400	
13	Guard plate	AISI 304	
14	Cartridge seal		
15	Filling plug	AISI 304	AISI 316
16	Tension strip	AISI 304	AISI 316
17	Pump barrel	AISI 304	AISI 316
18	Pump shaft	AISI 304	AISI 316

Hydraulic Performance Curves



Dimension



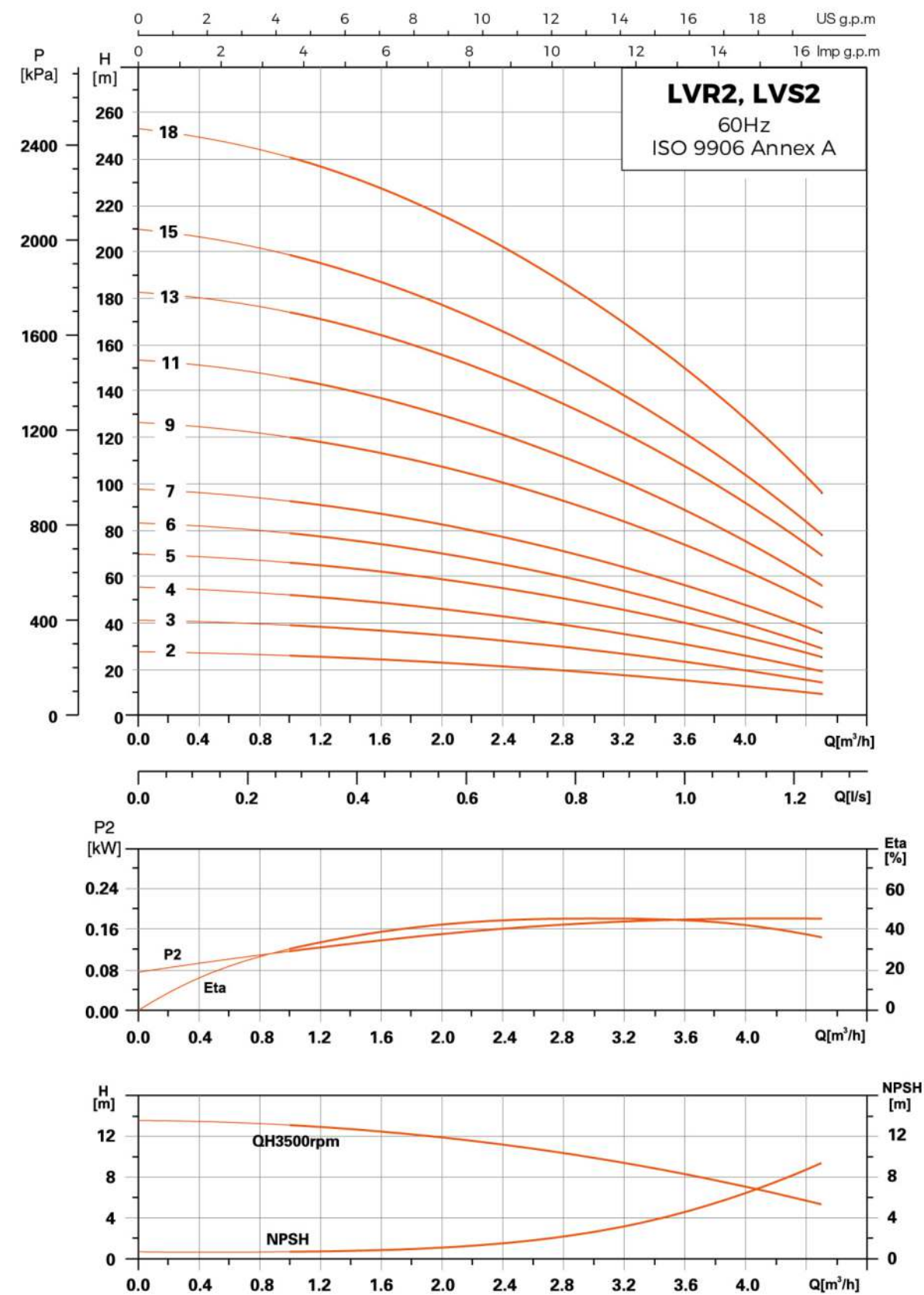
Model	OVAL FLANGE (LVR)		DIN FLANGE (LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
1-2	256.5	486.5	282	512	132	84	V18
1-3	256.5	486.5	282	512	132	84	
1-4	274.5	504.5	300	530	132	84	
1-5	292.5	522.5	318	548	132	84	
1-6	310.5	540.5	336	566	132	84	
1-7	332.5	582.5	358	608	150	95	
1-8	350.5	600.5	376	626	150	95	
1-9	368.5	618.5	394	644	150	95	
1-10	386.5	636.5	412	662	150	95	
1-11	404.5	654.5	430	680	150	95	
1-12	422.5	672.5	448	698	150	95	
1-13	440.5	690.5	466	716	150	95	
1-15	492.5	802.5	518	828	168	112	
1-17	528.5	838.5	554	864	168	112	
1-19	564.5	874.5	590	900	168	112	
1-21	600.5	910.5	626	936	168	112	
1-23	636.5	946.5	662	972	168	112	
1-25	-	-	698	1008	168	112	
1-27	-	-	738	1068	194	124	

Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.

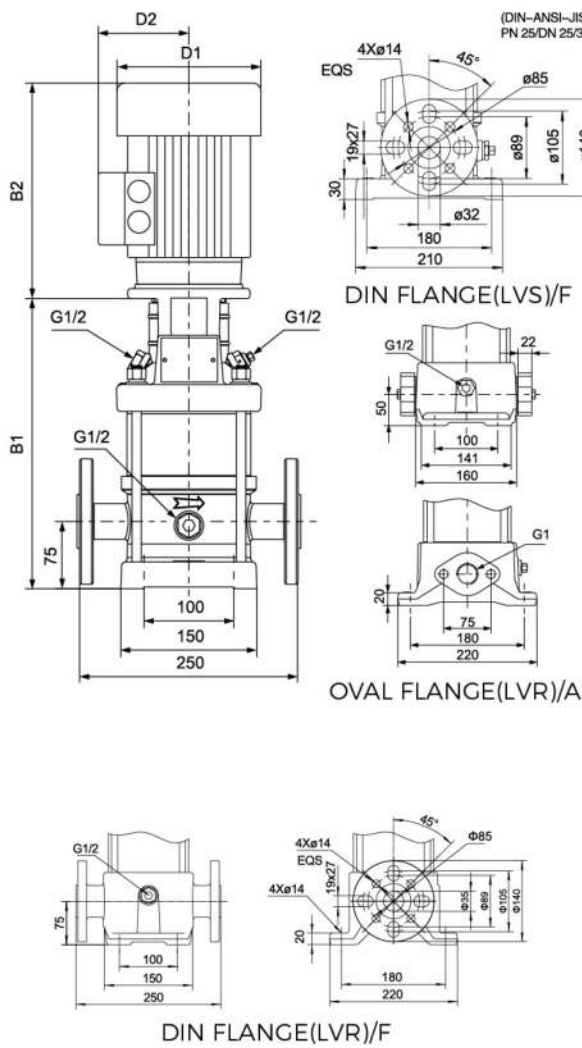
Technical Data

Model	Power(kW)	Q(m³/h)	0.8	1.0	1.5	2.0	2.2	2.5	2.9
LVR(S)1-2	0.37	H(m)	17	17	16	15	14	13	10
LVR(S)1-3	0.37		26	25	24	22	21	18	14
LVR(S)1-4	0.37		34	34	32	28	27	23	18
LVR(S)1-5	0.55		43	42	40	36	34	29	22
LVR(S)1-6	0.55		51	51	48	43	40	34	26
LVR(S)1-7	0.75		61	60	57	51	48	41	32
LVR(S)1-8	0.75		69	68	65	58	54	47	35
LVR(S)1-9	0.75		77	76	72	64	60	52	39
LVR(S)1-10	1.1		87	86	81	72	67	58	44
LVR(S)1-11	1.1		95	94	89	79	73	64	48
LVR(S)1-12	1.1		104	103	96	85	79	69	52
LVR(S)1-13	1.1		112	111	104	92	85	74	55
LVR(S)1-15	1.5		132	131	124	110	102	89	68
LVR(S)1-17	1.5		149	147	139	124	114	100	75
LVR(S)1-19	2.2		168	166	157	140	130	114	87
LVR(S)1-21	2.2		185	183	173	154	142	126	95
LVR(S)1-23	2.2		202	200	189	168	155	136	103
LVR(S)1-25	2.2		219	217	204	182	168	147	111
LVR(S)1-27	3		239	237	224	200	185	163	124

Hydraulic Performance Curves



Dimension



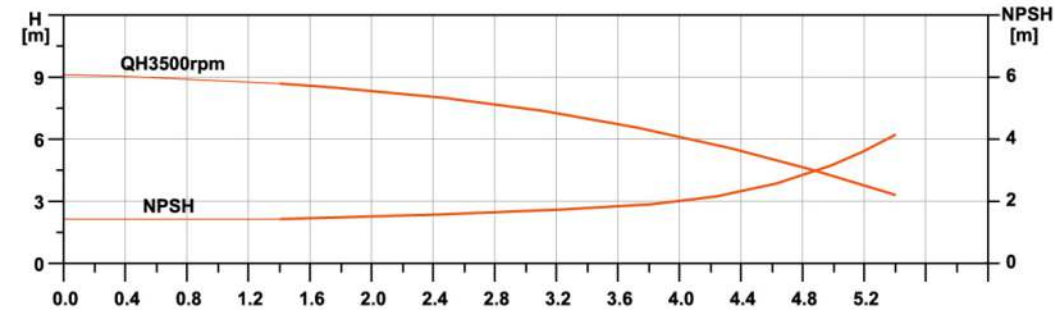
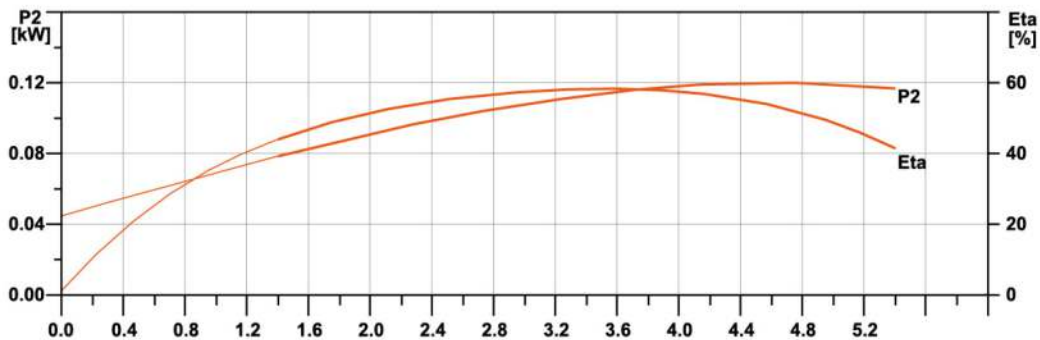
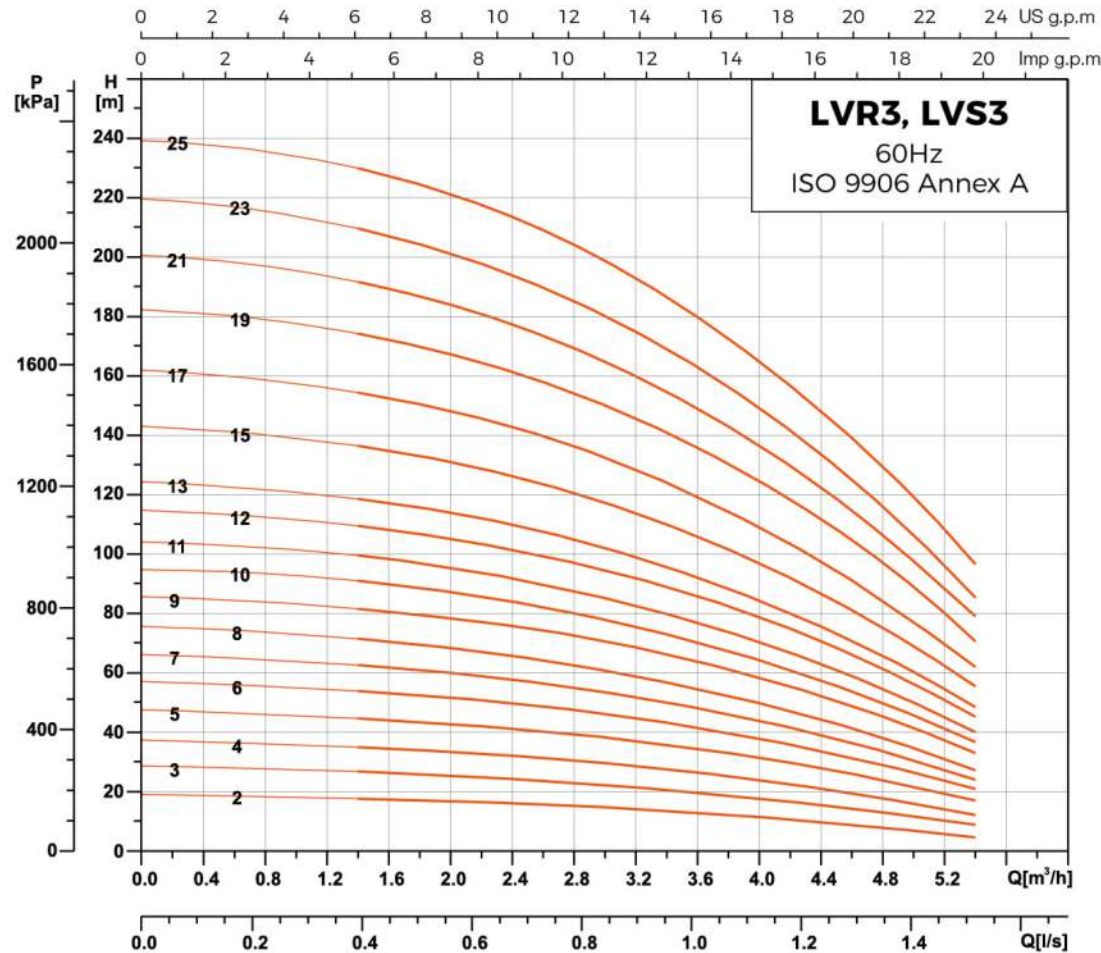
Model	OVAL FLANGE (LVR)		DIN FLANGE (LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
2-2	256.5	486.5	282	512	132	84	V18
2-3	256.5	486.5	282	512	132	84	
2-4	278.5	528.5	304	554	150	95	
2-5	296.5	546.5	322	572	150	95	
2-6	314.5	564.5	340	590	150	95	
2-7	348.5	658.5	374	684	168	112	
2-9	384.5	694.5	410	720	168	112	
2-11	420.5	730.5	446	756	168	112	
2-13	460.5	790.5	486	816	194	124	
2-15	496.5	826.5	522	852	194	124	
2-18	-	-	576	933	212	142	

Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.

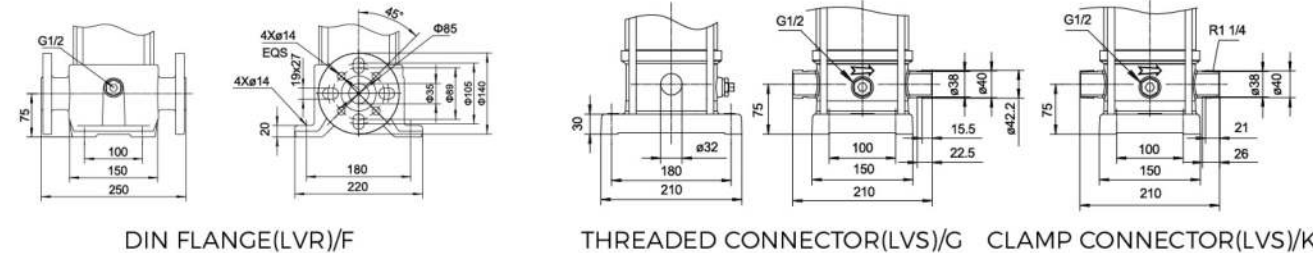
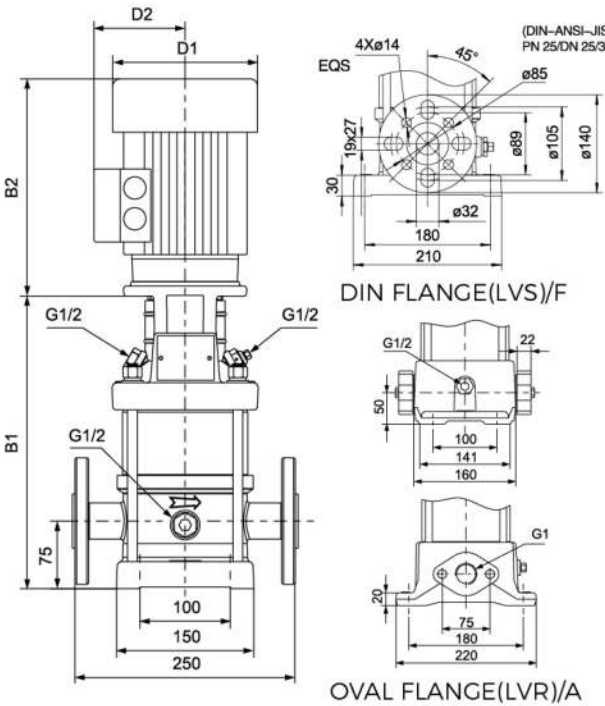
Technical Data

Model	Power(kW)	Q(m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
LVR(S)2-2	0.37	H(m)	25	24	22	20	18.5	15	12	9
LVR(S)2-3	0.55		38	36	34	31	28	23	19	14
LVR(S)2-4	0.75		52	49	46	42	37.5	32	26	19
LVR(S)2-5	1.1		66	62	58	54	48	41	34	25
LVR(S)2-6	1.1		78	74	69	63	56.5	48	39	29
LVR(S)2-7	1.5		92	88	82	75	67.5	58	47	35
LVR(S)2-9	2.2		120	115	108	99	89	77	63	48
LVR(S)2-11	2.2		145	139	130	119	106	92	75	56
LVR(S)2-13	3		174	166	156	143	128	111	91	69
LVR(S)2-15	3		199	190	178	163	145	126	103	77
LVR(S)2-18	4		241	230	216	199	177	154	127	96

Hydraulic Performance Curves



Dimension



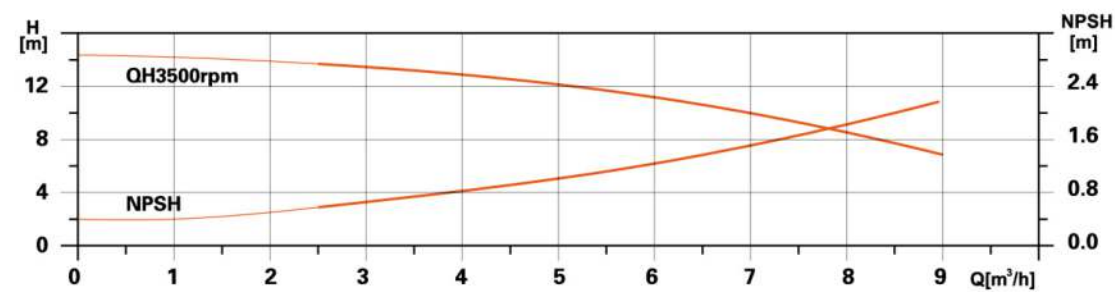
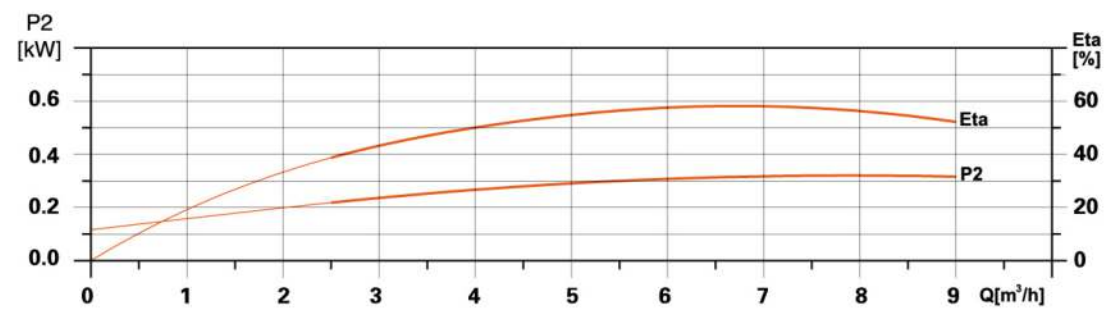
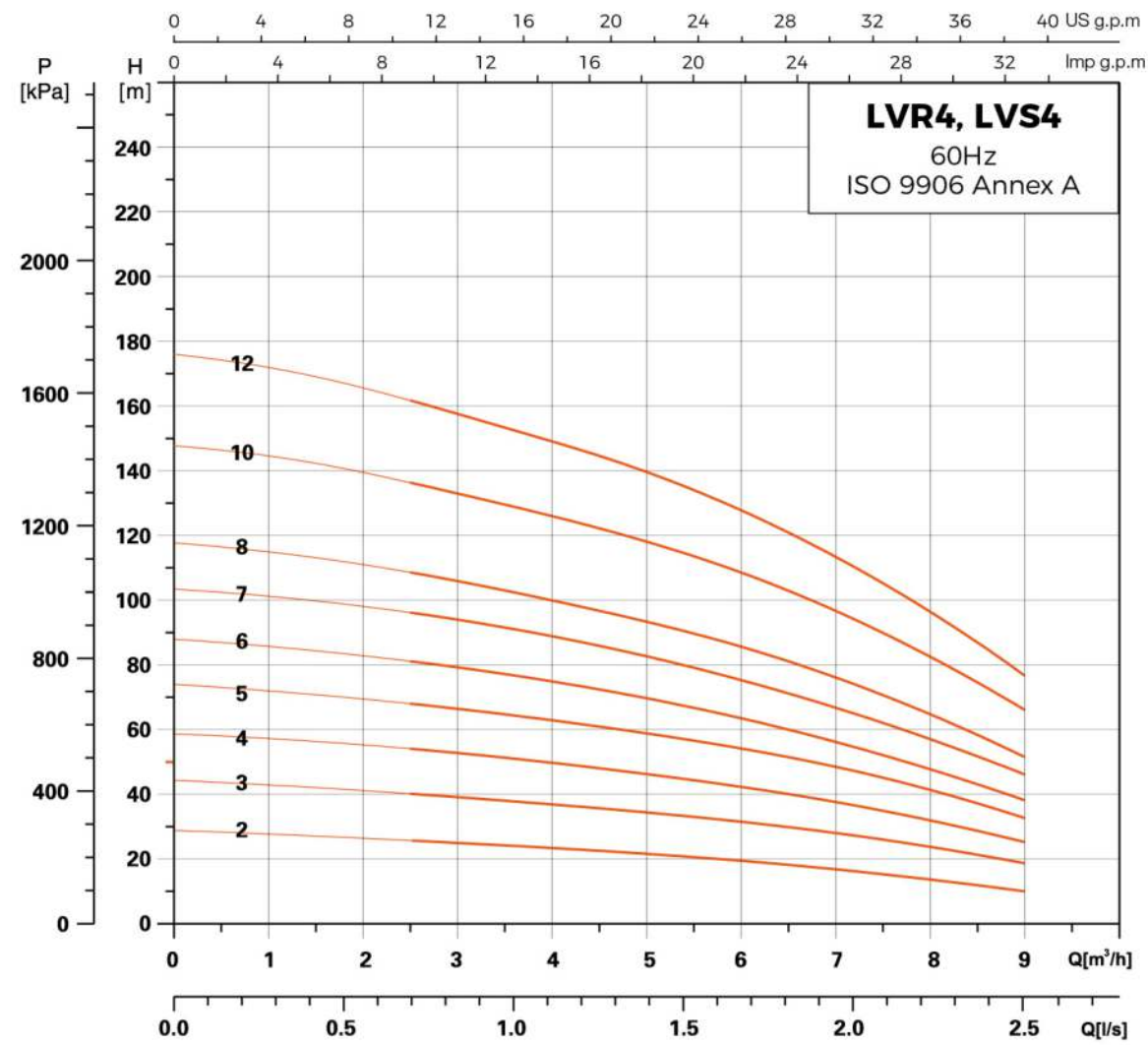
Model	OVAL FLANGE (LVR)		DIN FLANGE (LVS, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
3-2	256.5	486.5	282	512	132	84	V18
3-3	256.5	486.5	282	512	132	84	
3-4	274.5	504.5	300	530	132	84	
3-5	296.5	546.5	322	572	150	95	
3-6	314.5	564.5	340	590	150	95	
3-7	332.5	582.5	358	608	150	95	
3-8	350.5	600.5	376	626	150	95	
3-9	384.5	694.5	410	720	168	112	
3-10	402.5	712.5	428	738	168	112	
3-11	420.5	730.5	446	756	168	112	
3-12	438.5	748.5	464	774	168	112	
3-13	456.5	766.5	482	792	168	112	
3-15	492.5	802.5	518	828	168	112	
3-17	528.5	838.5	554	864	168	112	
3-19	568.5	898.5	594	924	194	124	
3-21	604.5	934.5	630	960	194	124	
3-23	640.5	970.5	666	996	194	124	
3-25	-	-	702	1059	212	142	

Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.

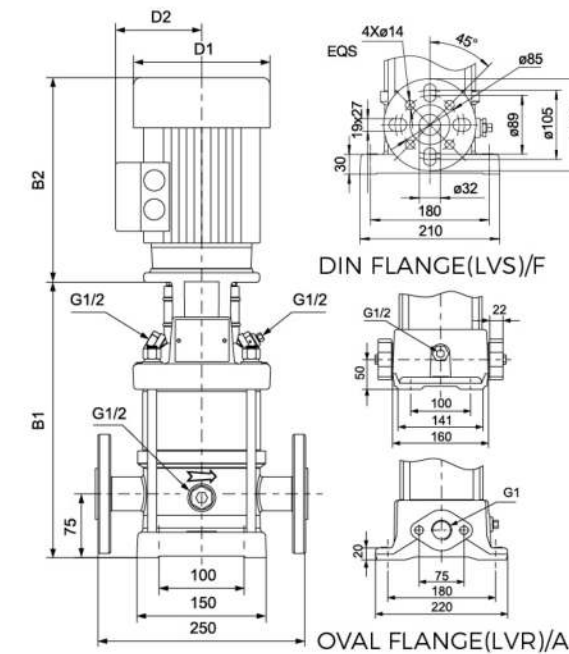
Technical Data

Model	Power(kW)	Q(m³/h)	1.5	2.0	2.5	3.0	3.6	4.0	4.5	5.0	5.4
LVR(S)3-2	0.37	H(m)	17	17	16	15	13	11	9	7	5
LVR(S)3-3	0.55		26	25	24	22	20	18	15	12	9
LVR(S)3-4	0.55		35	34	32	30	27	24	20	16	12
LVR(S)3-5	0.75		44	43	41	38	34	31	27	22	17
LVR(S)3-6	1.1		54	52	49	46	42	38	33	27	21
LVR(S)3-7	1.1		62	60	57	54	48	44	38	31	24
LVR(S)3-8	1.1		71	68	65	61	55	50	43	35	27
LVR(S)3-9	1.5		81	79	75	71	64	58	51	41	33
LVR(S)3-10	1.5		90	87	83	78	70	64	56	46	37
LVR(S)3-11	1.5		99	96	91	86	77	71	61	50	40
LVR(S)3-12	2.2		110	106	101	95	85	78	68	56	45
LVR(S)3-13	2.2		119	114	109	103	92	85	74	60	48
LVR(S)3-15	2.2		136	131	125	118	106	97	84	69	55
LVR(S)3-17	2.2		154	148	141	133	119	109	94	77	61
LVR(S)3-19	3		174	168	160	150	135	125	108	88	72
LVR(S)3-21	3		191	185	176	165	148	137	119	97	78
LVR(S)3-23	3		209	202	192	181	161	149	129	106	85
LVR(S)3-25	4		229	222	212	199	178	165	144	118	95

Hydraulic Performance Curves

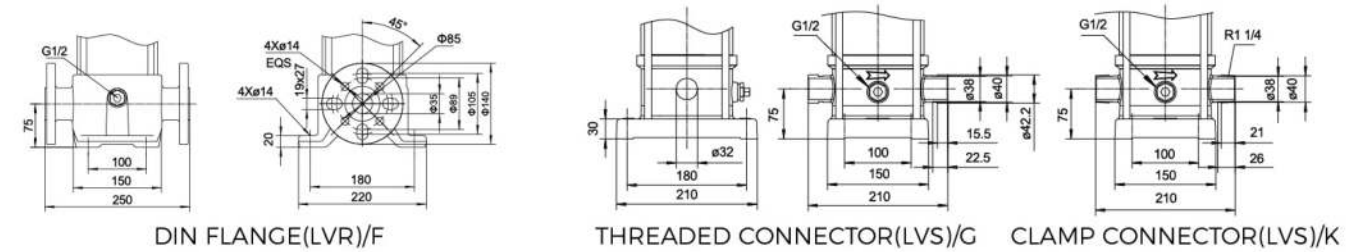


Dimension



Model	OVAL FLANGE (LVR)		DIN FLANGE (LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
4-2	260.5	510.5	286	536	150	95	V18
4-3	287.5	537.5	313	563	150	95	
4-4	330.5	640.5	356	666	168	112	
4-5	357.5	667.5	383	693	168	112	
4-6	384.5	694.5	410	720	168	112	
4-7	415.5	745.5	441	771	194	124	
4-8	442.5	772.5	468	798	194	124	
4-10	496.5	853.5	522	879	212	142	
4-12	550.5	907.5	576	933	212	142	

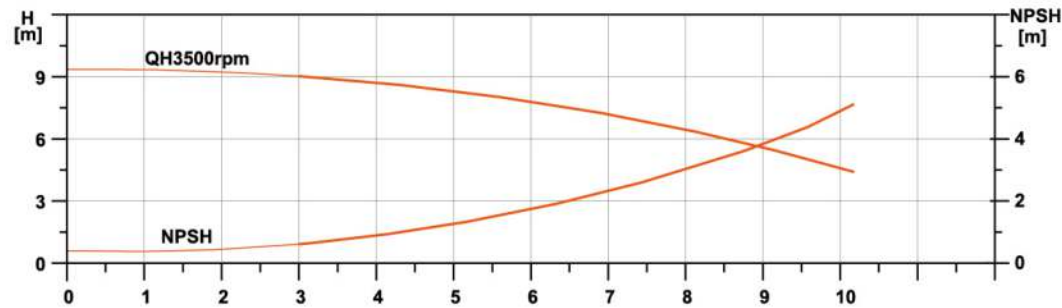
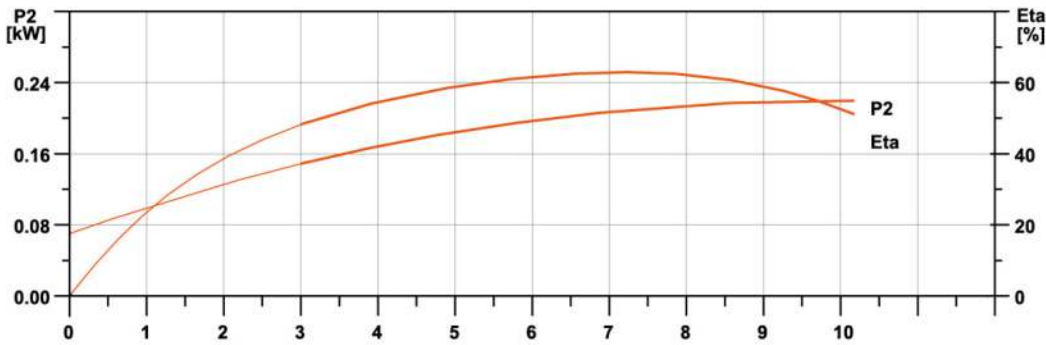
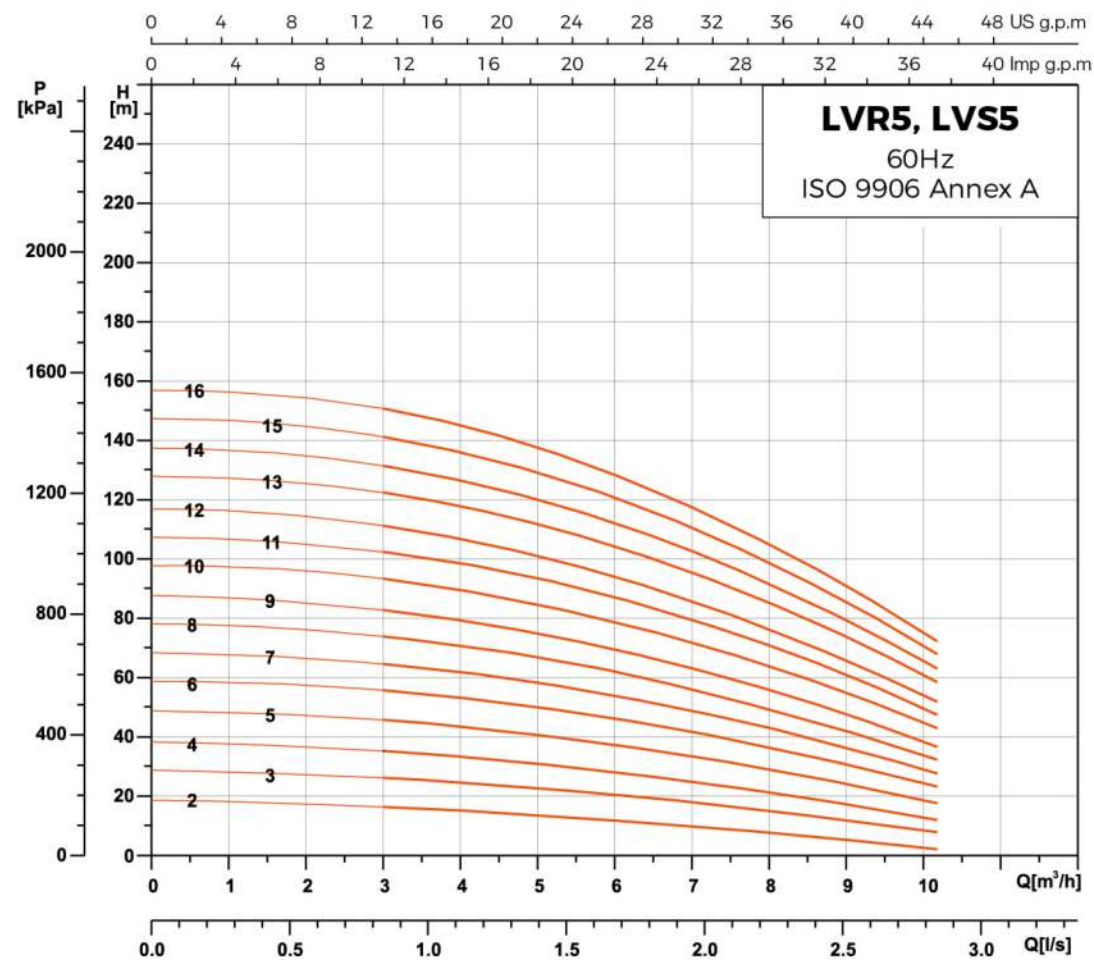
Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.



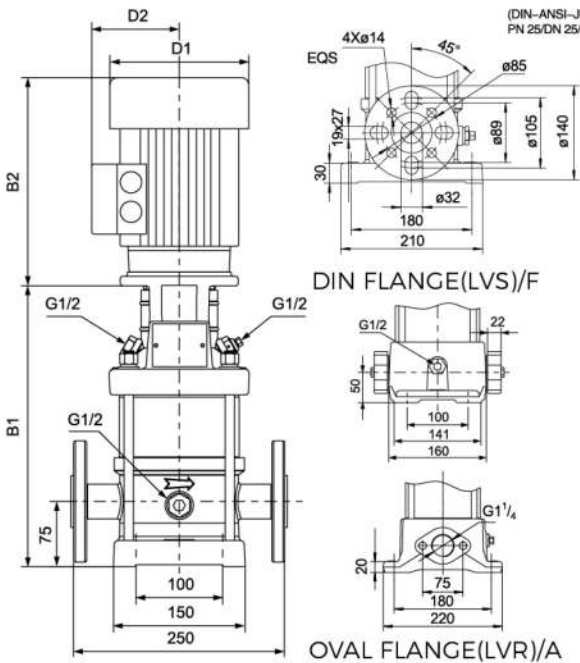
Technical Data

Model	Power(kW)	Q(m³/h)	2.5	3.0	4.0	5.0	6.0	7.0	8.0	9.0
LVR(S)4-2	0.75	H(m)	25	24	23	21	19	16.5	13	9
LVR(S)4-3	1.1		40	39	36	34	34	28	23	18
LVR(S)4-4	1.5		53	52	49	46	42	37.5	31	25
LVR(S)4-5	2.2		68	66	62	58	54	48	41	32
LVR(S)4-6	2.2		80	78	74	69	63	56.5	48	38
LVR(S)4-7	3		95	93	88	82	75	68	57	46
LVR(S)4-8	3		108	106	99	93	85	76.5	65	51
LVR(S)4-10	4		136	133	126	118	108	97	82	65
LVR(S)4-12	4		162	158	149	139	128	114	96	76

Hydraulic Performance Curves

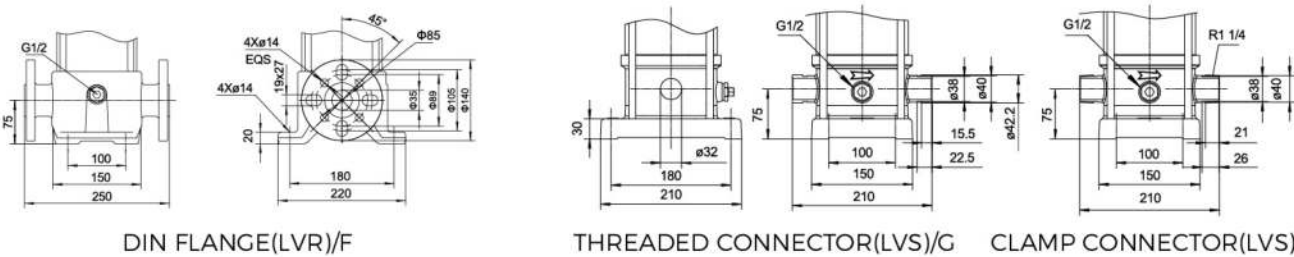


Dimension



Model	OVAL FLANGE (LVR)		DIN FLANGE (LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
5-2	256.5	486.5	282	512	132	84	V18
5-3	287.5	537.5	313	563	150	95	
5-4	314.5	564.5	340	590	150	95	
5-5	357.5	667.5	383	693	168	112	
5-6	384.5	694.5	410	720	168	112	
5-7	411.5	721.5	437	747	168	112	
5-8	438.5	748.5	464	774	168	112	
5-9	465.5	775.5	491	801	168	112	
5-10	496.5	826.5	522	852	194	124	
5-11	523.5	853.5	549	879	194	124	
5-12	550.5	880.5	576	906	194	124	
5-13	577.5	934.5	603	960	212	142	
5-14	604.5	961.5	630	987	212	142	
5-15	631.5	988.5	657	1014	212	142	
5-16	658.5	1015.5	684	1041	212	142	

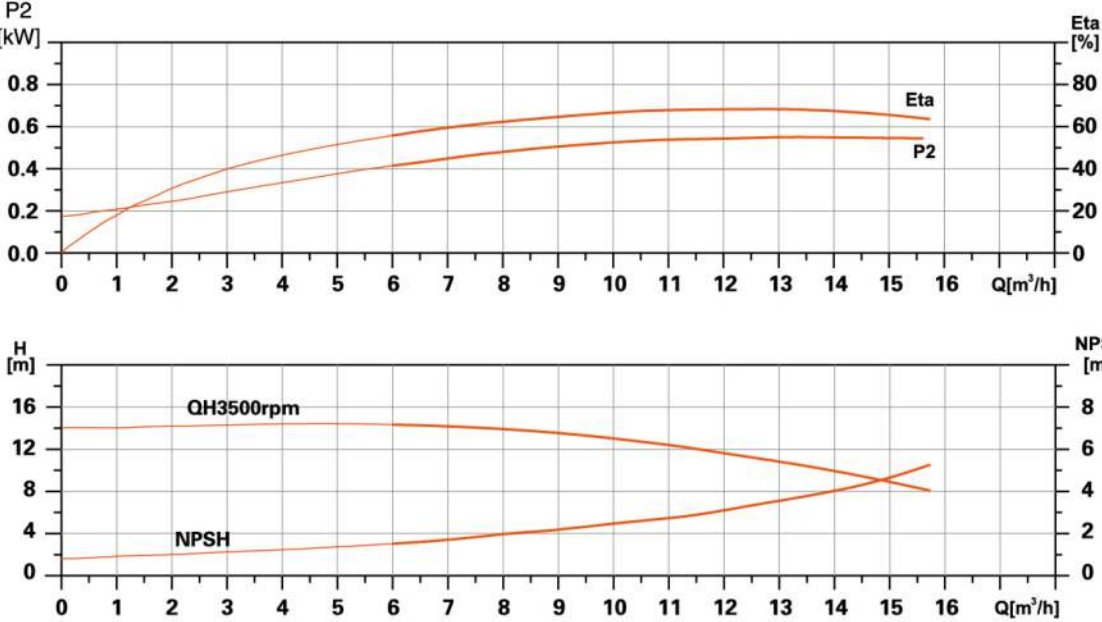
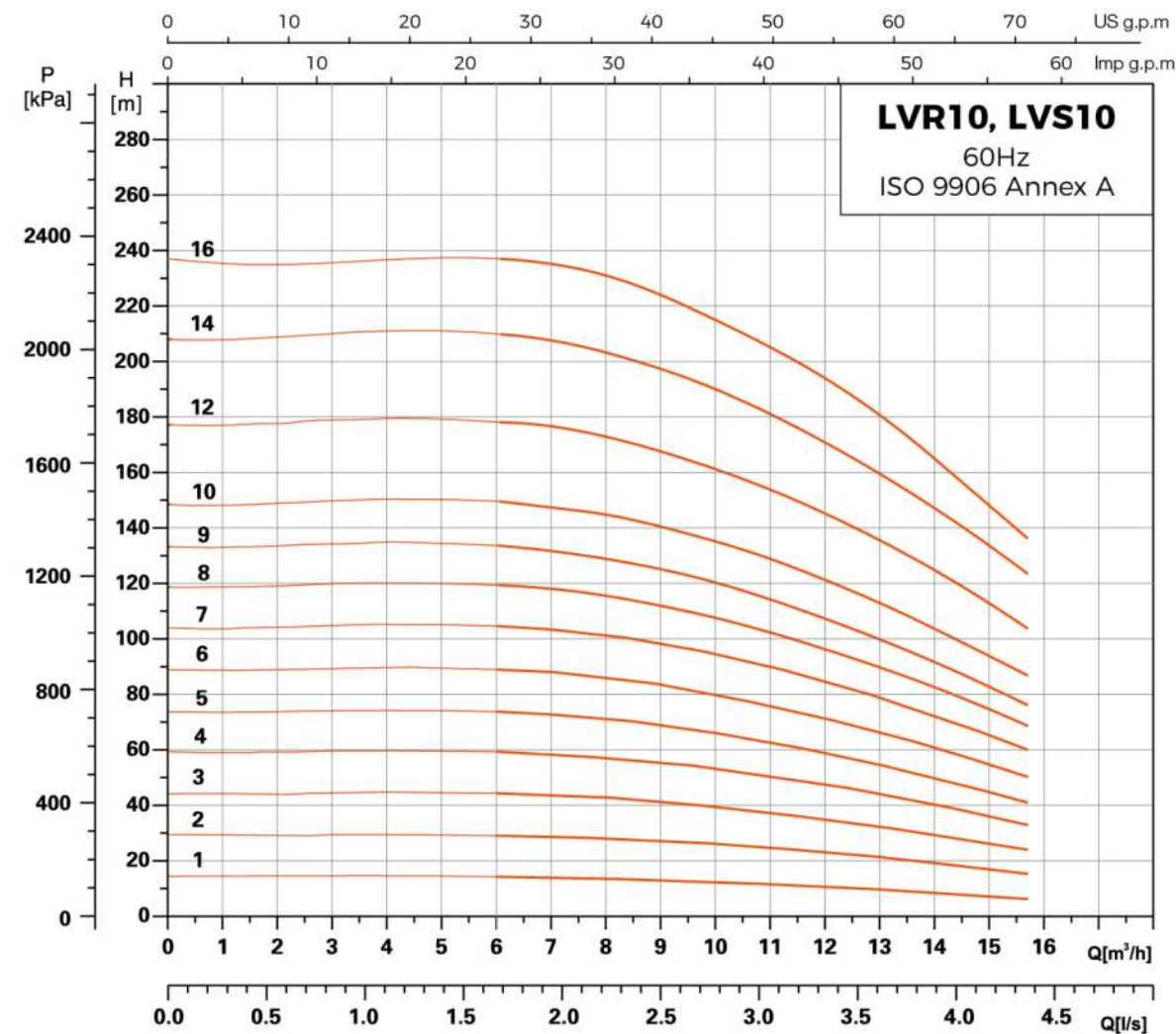
Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.



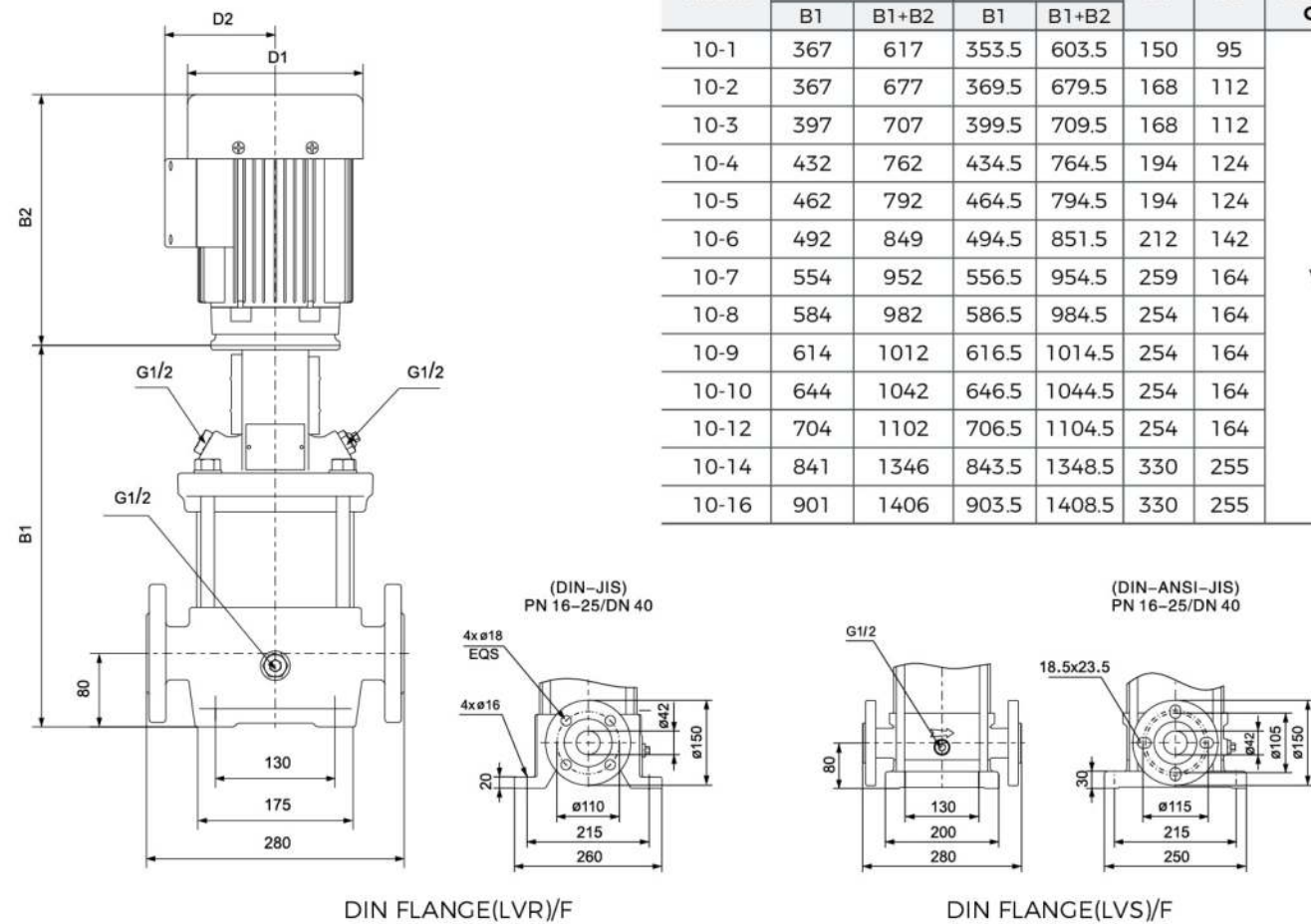
Technical Data

Model	Power(kW)	Q(m³/h)	3.0	4.0	5.0	6.0	6.8	8.0	9.0	10
LVR(S)5-2	0.55	H(m)	17	15	14	13	11	9	6	4
LVR(S)5-3	1.1		26	25	23	21	19	16	13	9
LVR(S)5-4	1.1		35	34	31	29	26	22	18	14
LVR(S)5-5	1.5		46	44	41	38	35	30	25	20
LVR(S)5-6	2.2		55	53	50	46	43	37	32	25
LVR(S)5-7	2.2		65	62	59	54	50	44	37	30
LVR(S)5-8	2.2		74	71	67	62	58	50	43	35
LVR(S)5-9	2.2		83	80	75	70	65	57	48	39
LVR(S)5-10	3		93	90	85	79	74	65	56	46
LVR(S)5-11	3		103	99	94	87	81	71	61	51
LVR(S)5-12	3		112	108	102	95	89	78	67	55
LVR(S)5-13	4		123	118	113	105	98	86	75	62
LVR(S)5-14	4		132	127	121	113	105	93	81	67
LVR(S)5-15	4		142	136	130	121	112	99	86	71
LVR(S)5-16	4		151	145	138	129	120	106	92	76

Hydraulic Performance Curves



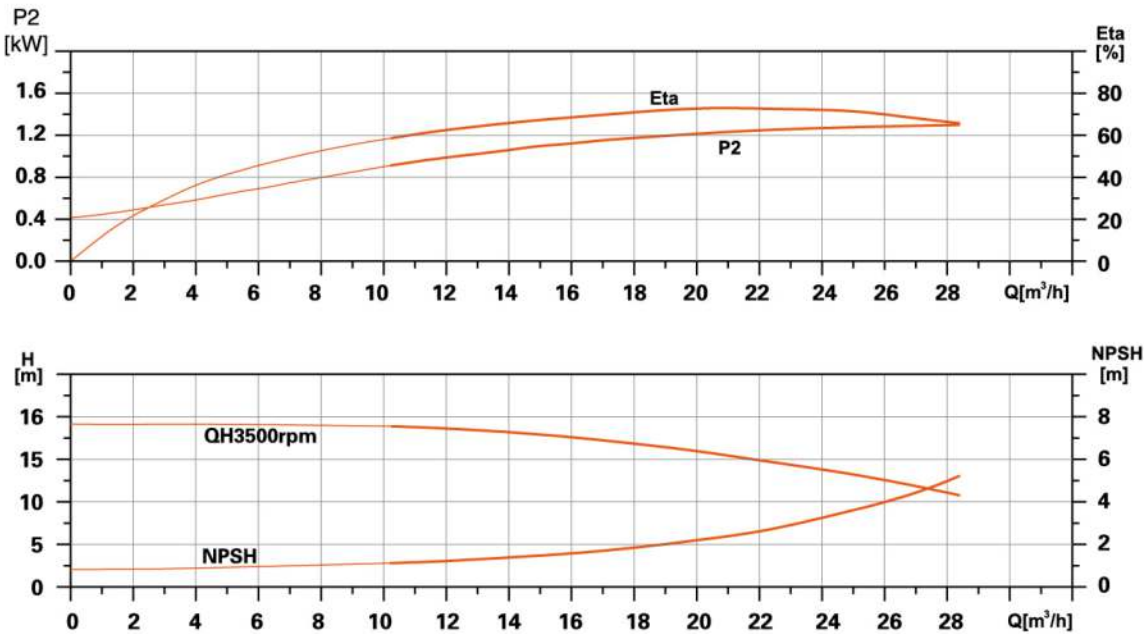
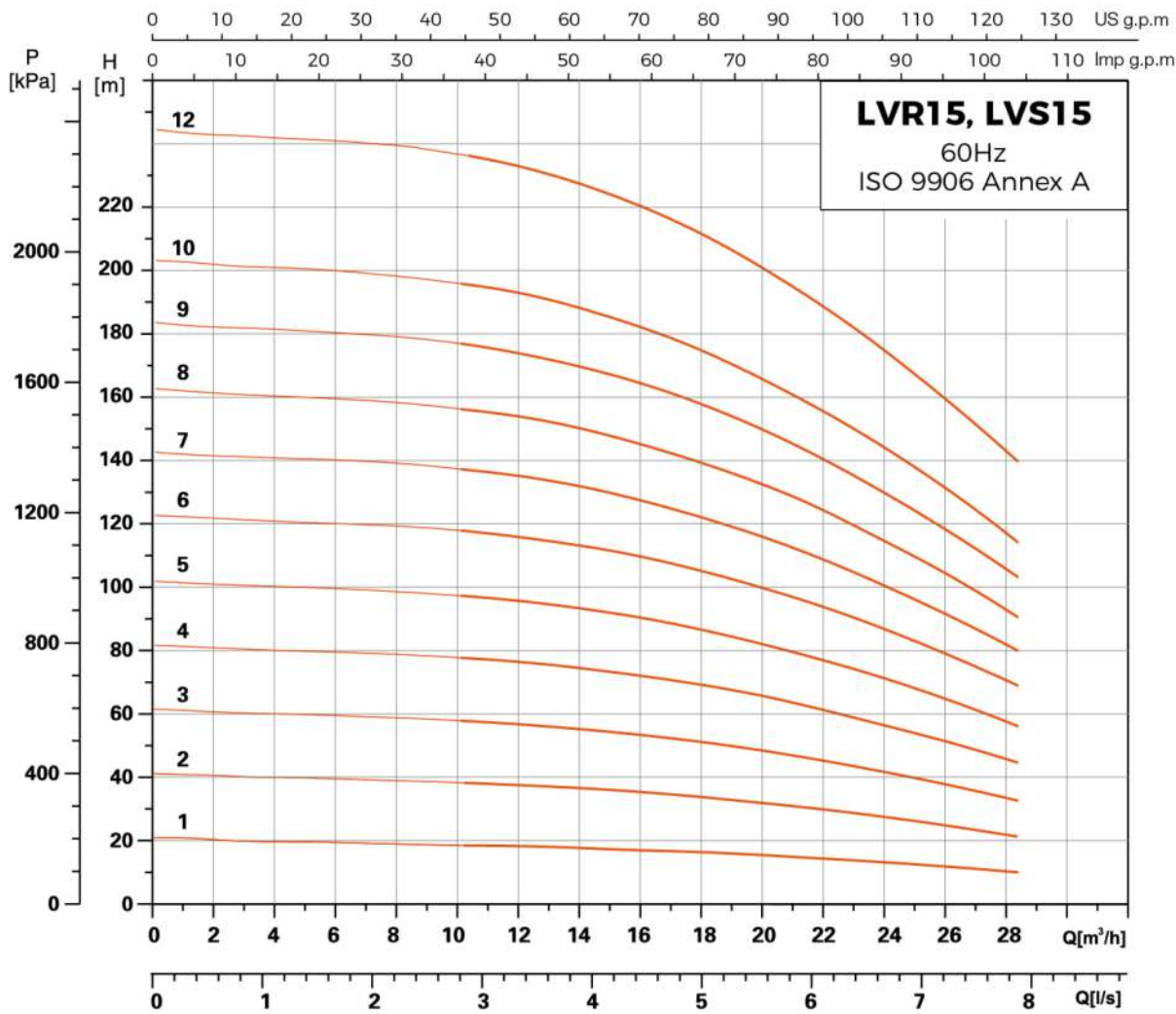
Dimension



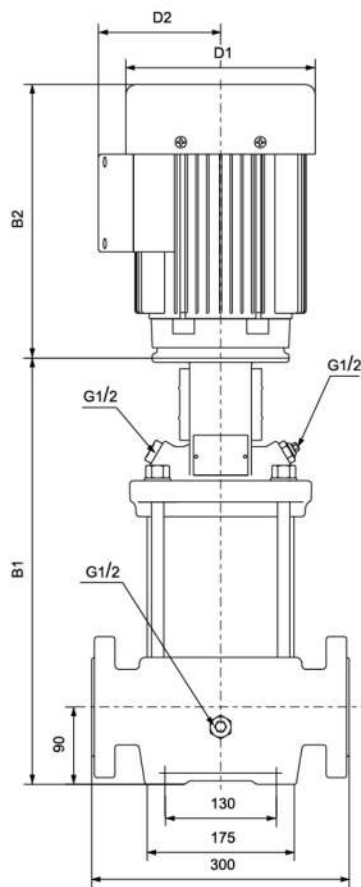
Technical Data

Model	Power(kW)	Q(m³/h)	6.0	8.0	10	12	14
LVR(S)10-1	0.75	H(m)	14	13	12	10.5	8
LVR(S)10-2	1.5		29	28	26	23	19
LVR(S)10-3	2.2		44	42	39	35	29
LVR(S)10-4	3		59	57	53	47	40
LVR(S)10-5	3		74	71	66	58	50
LVR(S)10-6	4		90	86	80	71	60
LVR(S)10-7	5.5		104	101	94	84	72
LVR(S)10-8	5.5		119	115	107	95	82
LVR(S)10-9	5.5		134	129	120	106	92
LVR(S)10-10	7.5		149	144	135	119	103
LVR(S)10-12	7.5		178	172	161	142	123
LVR(S)10-14	11		210	203	189	169	146
LVR(S)10-16	11		239	231	215	190	165

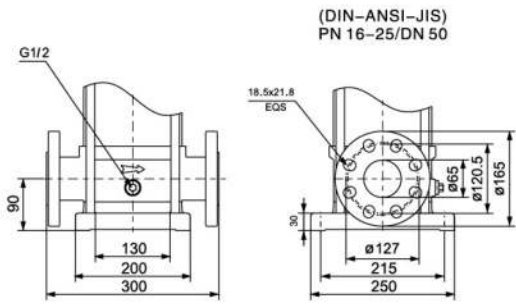
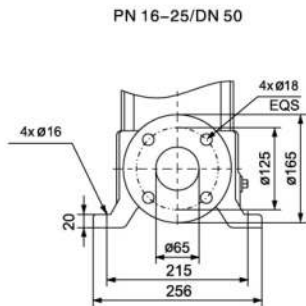
Hydraulic Performance Curves



Dimension



DIN FLANGE(LVR)/F



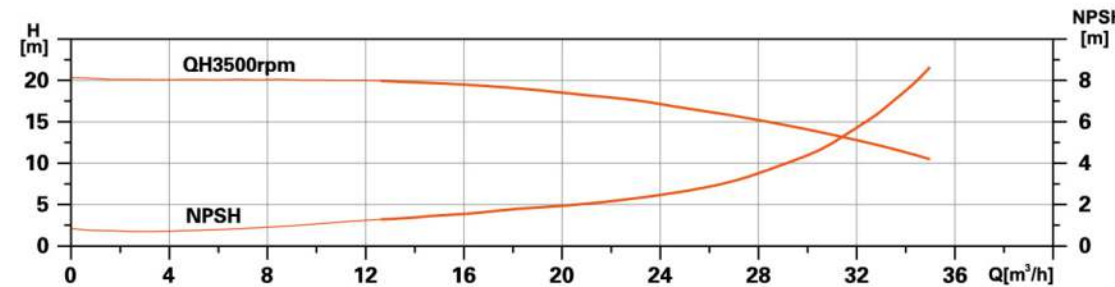
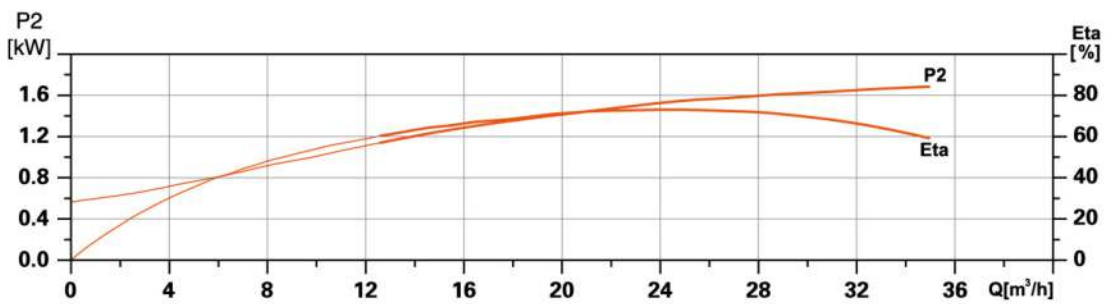
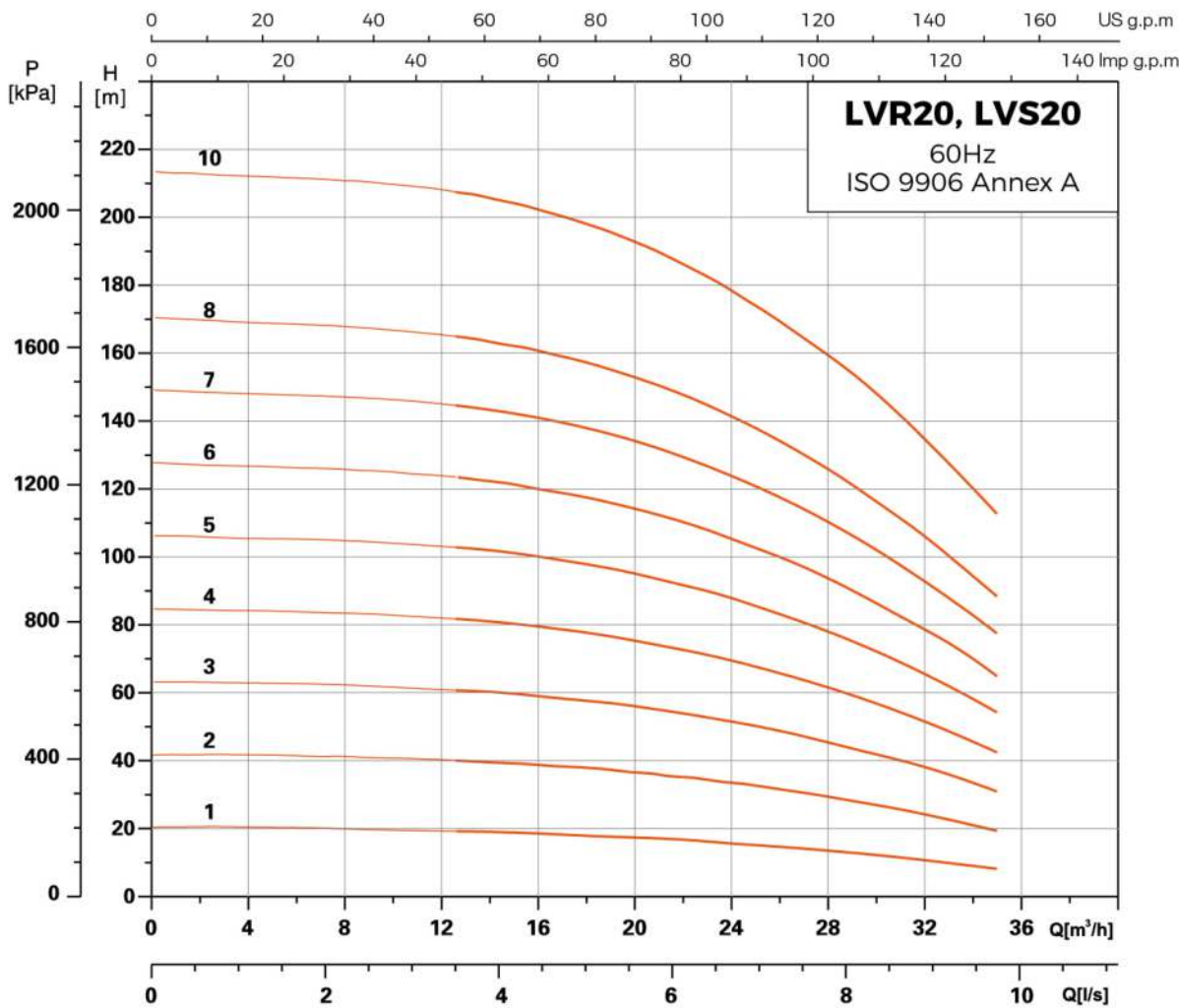
DIN FLANGE(LVS)/F

Model	OVAL FLANGE (LVR)		DIN FLANGE (LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
15-1	415	725	413.5	723.5	168	112	V18
15-2	420	750	418.5	748.5	194	124	
15-3	465	822	463.5	820.5	212	142	
15-4	542	940	540.5	938.5	259	164	
15-5	587	985	585.5	983.5	259	164	
15-6	709	1214	707.5	1212.5	330	255	
15-7	754	1259	752.5	1257.5	330	255	V1
15-8	799	1304	797.5	1302.5	330	255	
15-9	844	1349	842.5	1347.5	330	255	
15-10	889	1394	887.5	1392.5	330	255	
15-12	979	1539	977.5	1537.5	330	255	

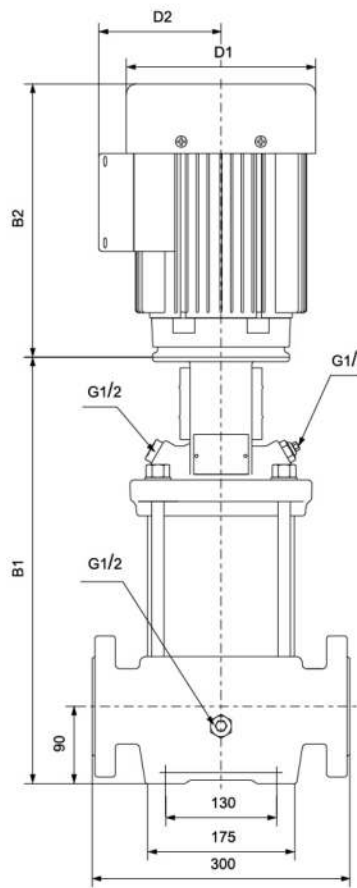
Technical Data

Model	Power(kW)	Q(m³/h)	12	16	20	24	28
LVR(S)15-1	1.5	H(m)	18	17	15	12	9
LVR(S)15-2	3		38	35	32	27	22
LVR(S)15-3	4		57	53	48	42	33
LVR(S)15-4	5.5		76	72	65	56	46
LVR(S)15-5	7.5		96	90	81	71	57
LVR(S)15-6	11		116	110	98	87	70
LVR(S)15-7	11		135	127	114	101	82
LVR(S)15-8	11		154	145	130	114	93
LVR(S)15-9	15		174	164	148	130	105
LVR(S)15-10	15		193	182	164	144	117
LVR(S)15-12	18.5		233	220	198	174	142

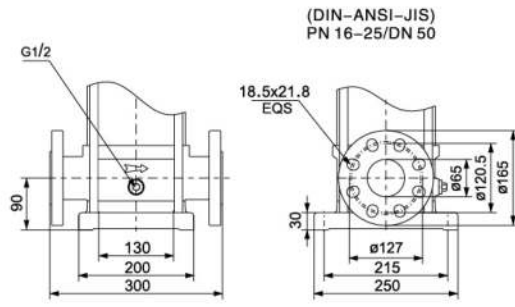
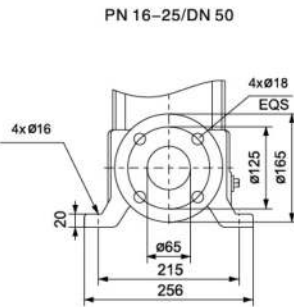
Hydraulic Performance Curves



Dimension



DIN FLANGE(LVR)/F



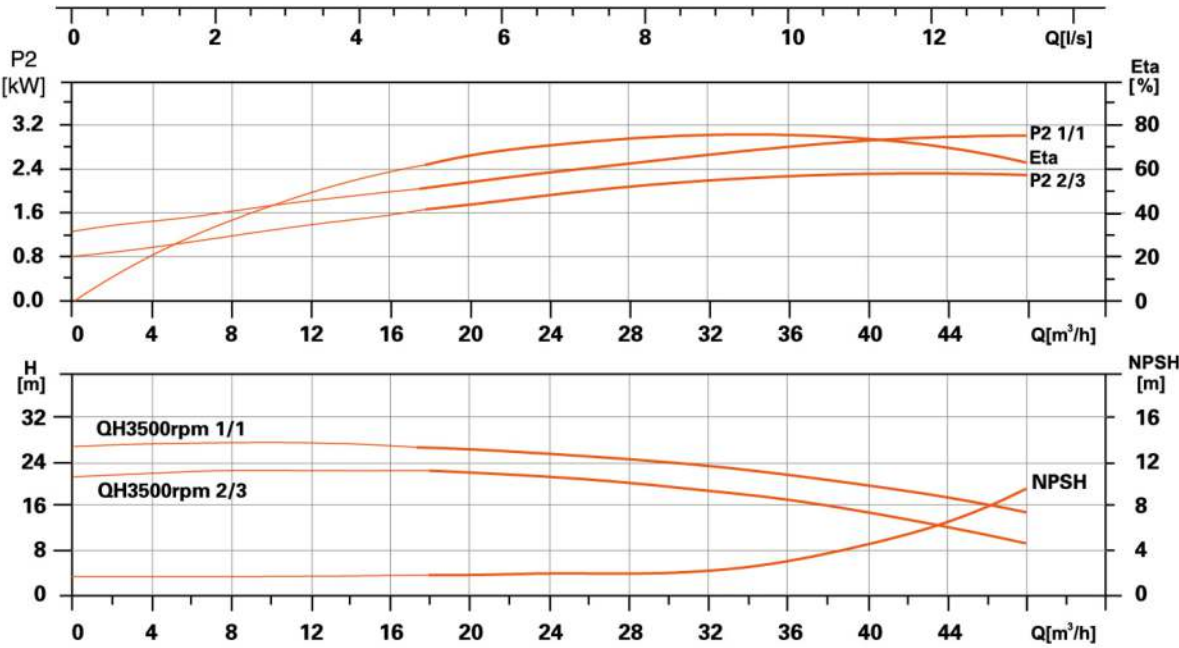
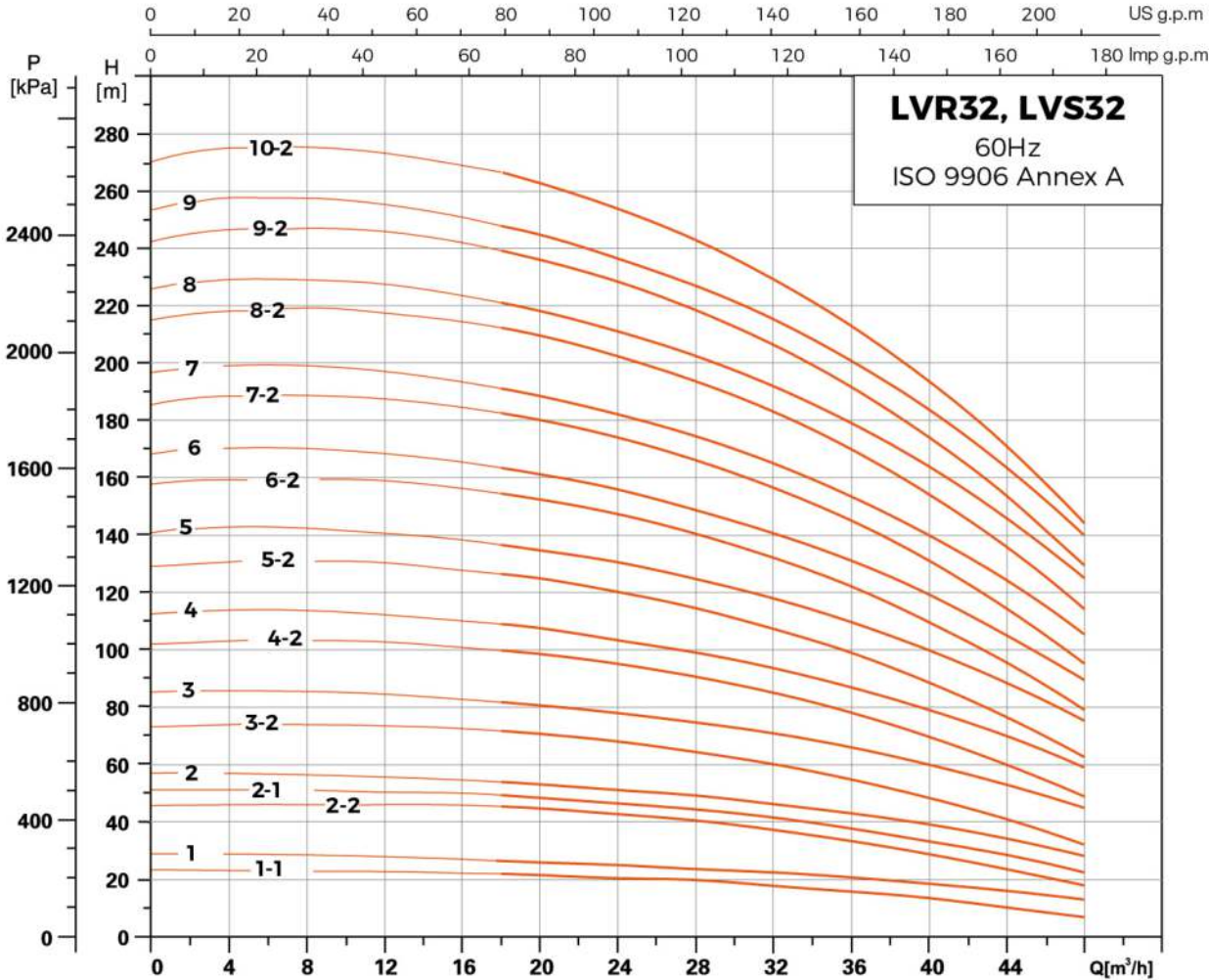
DIN FLANGE(LVS)/F

Model	OVAL FLANGE (LVR)		DIN FLANGE (LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2	B1	B1+B2			
20-1	415	725	413.5	723.5	168	112	V18
20-2	420	777	418.5	775.5	212	142	
20-3	497	895	495.5	893.5	259	164	
20-4	542	940	540.5	938.5	259	164	
20-5	664	1169	662.5	1167.5	330	255	V1
20-6	709	1214	707.5	1212.5	330	255	
20-7	754	1259	752.5	1257.5	330	255	
20-8	799	1304	797.5	1302.5	330	255	
20-10	889	1449	887.5	1447.5	330	255	

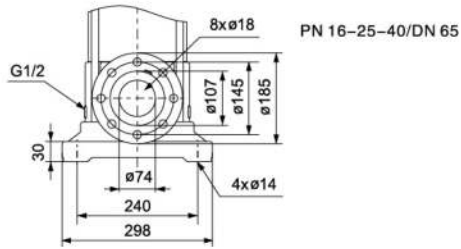
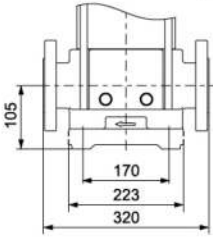
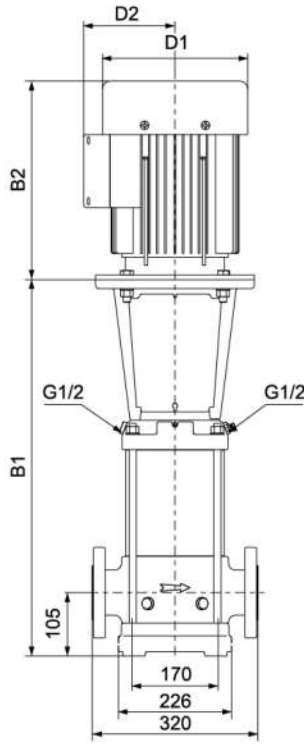
Technical Data

Model	Power(kW)	Q(m³/h)	13	17	21	25	29
LVR(S)20-1	2.2	H(m)	19	18	17	15	13
LVR(S)20-2	4		40	38	36	33	28
LVR(S)20-3	5.5		60	58	55	50	44
LVR(S)20-4	7.5		81	78	74	67	59
LVR(S)20-5	11		103	99	93	85	75
LVR(S)20-6	11		123	119	112	100	89
LVR(S)20-7	15		144	139	132	119	106
LVR(S)20-8	15		164	159	150	135	121
LVR(S)20-10	18.5		207	200	189	171	154

Hydraulic Performance Curves



Dimension

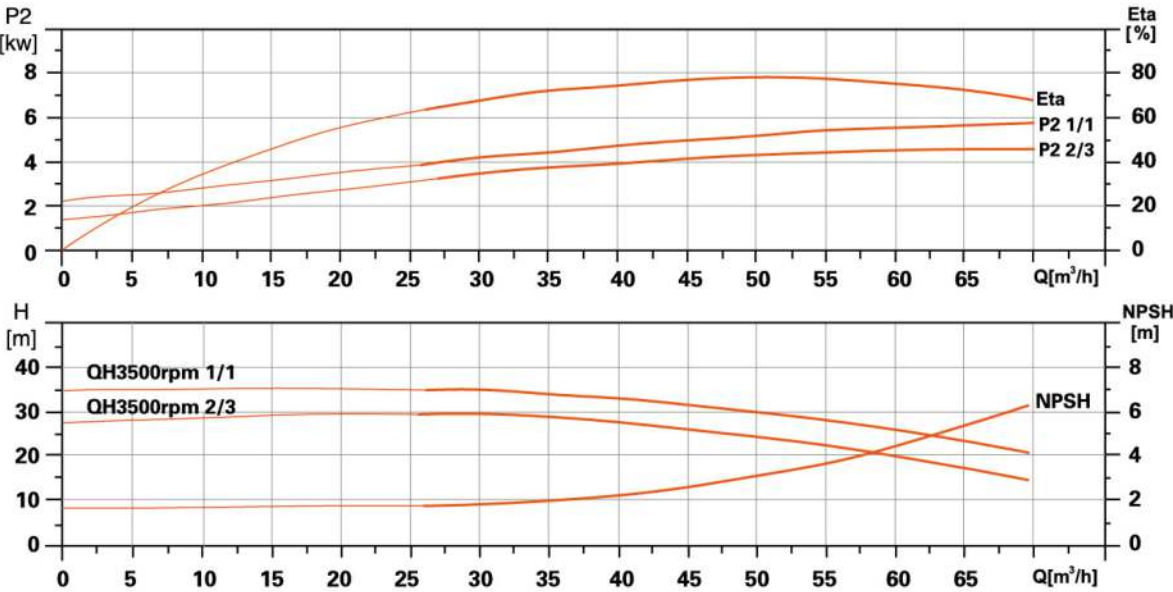
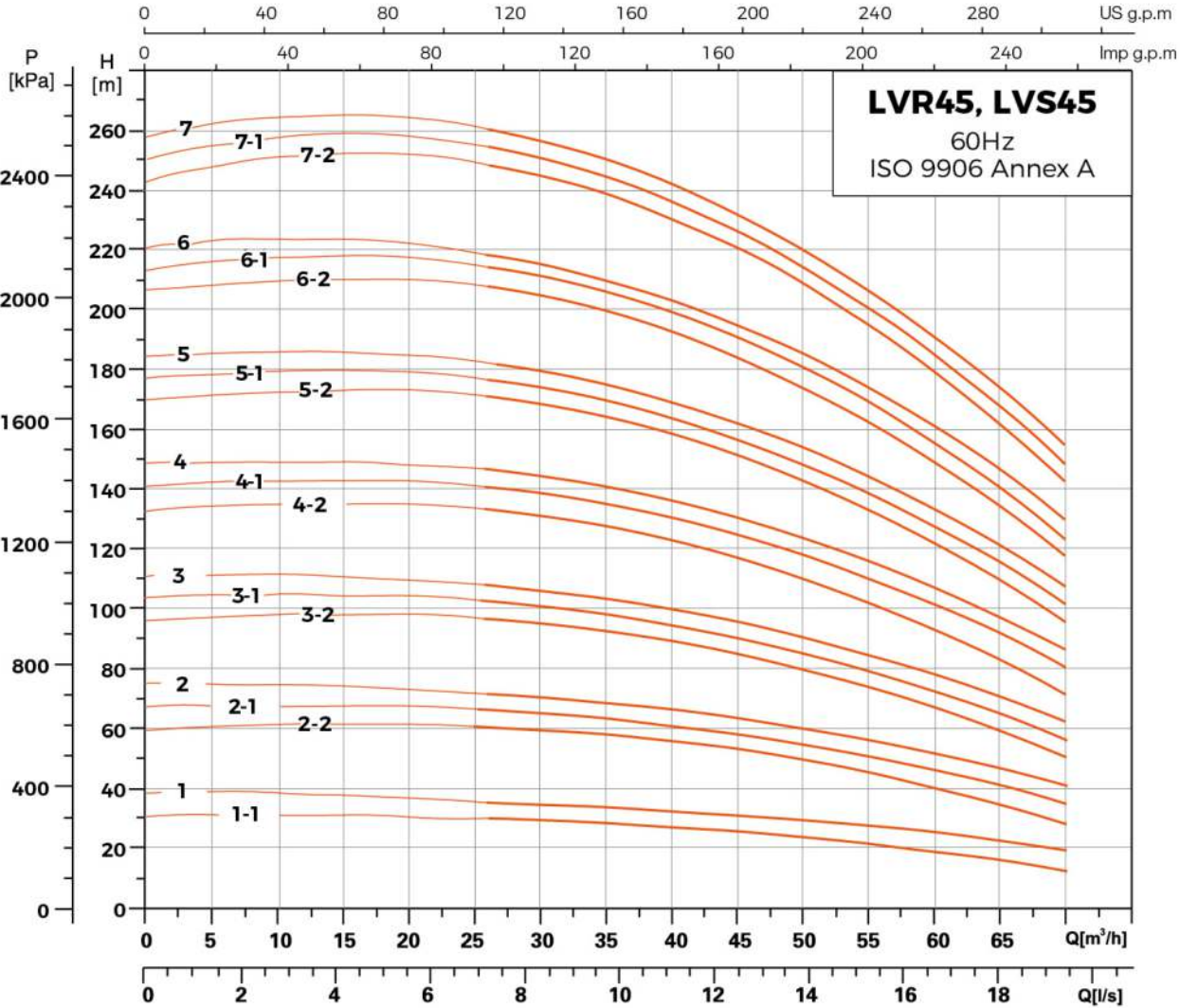


Model	DIN FLANGE(LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
32-1-1	455	765	168	112	V18
32-1	455	785	194	124	V1
32-2-2	575	973	275	210	
32-2-1	575	973	275	210	
32-2	575	973	275	210	
32-3-2	755	1260	330	255	
32-3	755	1260	330	255	
32-4-2	825	1330	330	255	
32-4	825	1330	330	255	
32-5-2	895	1400	330	255	
32-5	895	1455	330	255	
32-6-2	965	1525	330	255	
32-6	965	1525	330	255	
32-7-2	1035	1625	380	280	
32-7	1035	1625	380	280	
32-8-2	1105	1765	420	305	
32-8	1105	1765	420	305	
32-9-2	1175	1835	420	305	
32-9	1175	1835	420	305	
32-10-2	1245	1905	420	305	

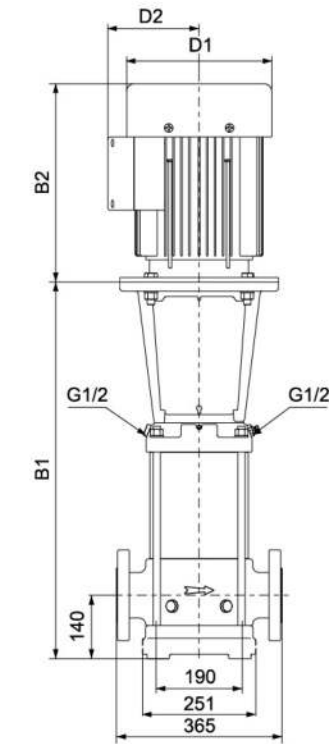
Technical Data

Model	Power(kW)	Q(m³/h)	20	25	30	36	40	48
LVR(S)32-1-1	2.2	H(m)	21	20	18	15.5	13	7
LVR(S)32-1	3		25	24	23	20.5	18	13
LVR(S)32-2-2	5.5		44	42	39	33	29	18
LVR(S)32-2-1	5.5		48	46	43	38	33	23
LVR(S)32-2	7.5		53	51	48	43	39	29
LVR(S)32-3-2	11		71	67	62	55	48	32
LVR(S)32-3	11		81	77	73	66	60	45
LVR(S)32-4-2	11		98	94	88	78	70	49
LVR(S)32-4	15		107	103	96	87	79	59
LVR(S)32-5-2	15		125	119	111	99	89	63
LVR(S)32-5	18.5		135	129	122	110	100	75
LVR(S)32-6-2	18.5		153	146	136	122	110	80
LVR(S)32-6	18.5		161	154	145	131	119	90
LVR(S)32-7-2	22		180	172	162	145	131	96
LVR(S)32-7	22		188	180	170	154	141	106
LVR(S)32-8-2	30		209	201	189	170	154	115
LVR(S)32-8	30		218	209	198	179	164	126
LVR(S)32-9-2	30		236	226	213	192	174	130
LVR(S)32-9	30		245	235	222	201	184	140
LVR(S)32-10-2	30		263	252	237	214	194	145

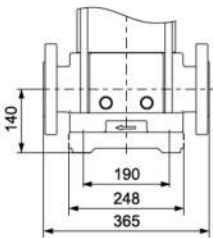
Hydraulic Performance Curves



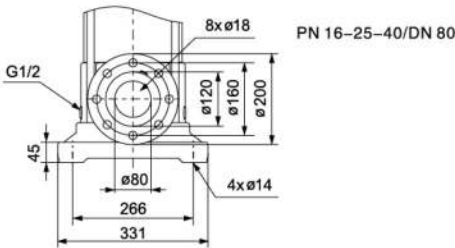
Dimension



DIN FLANGE(LVS)/F



DIN FLANGE(LVR)/F



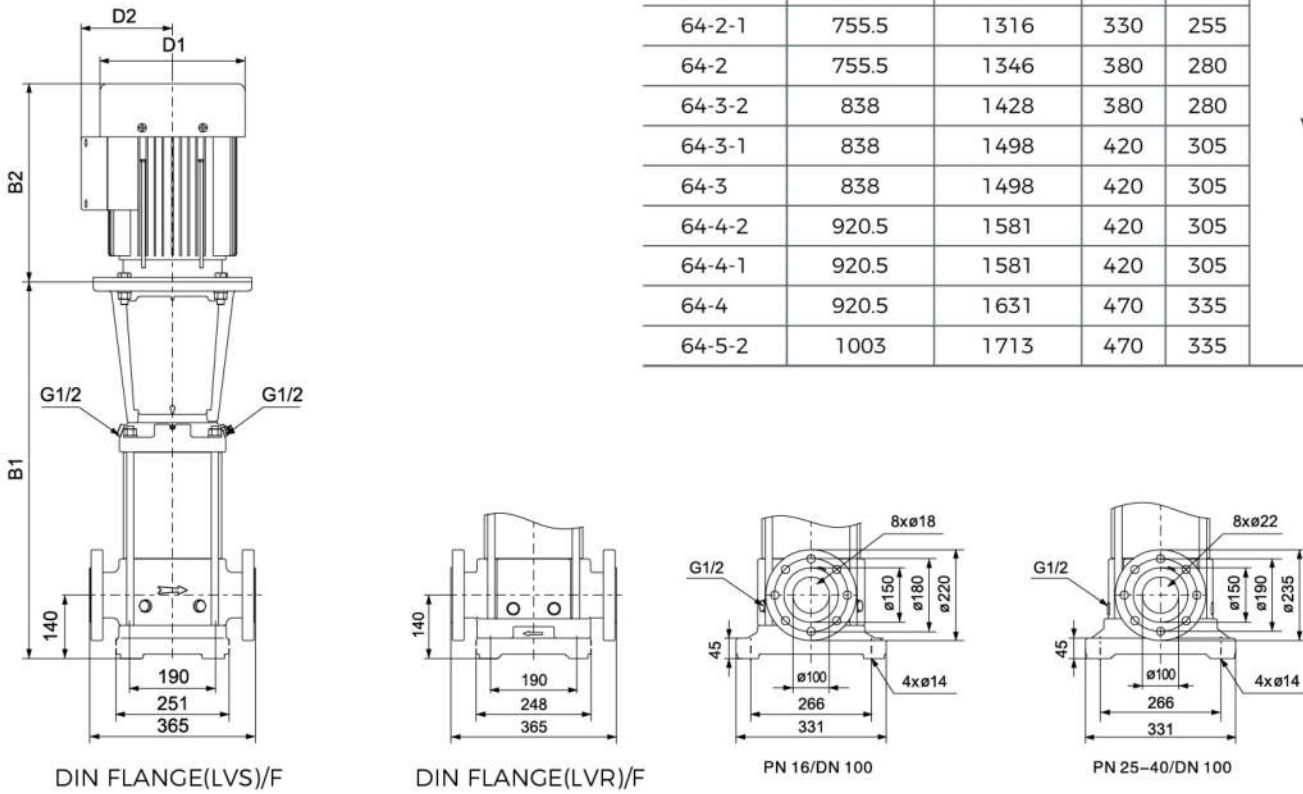
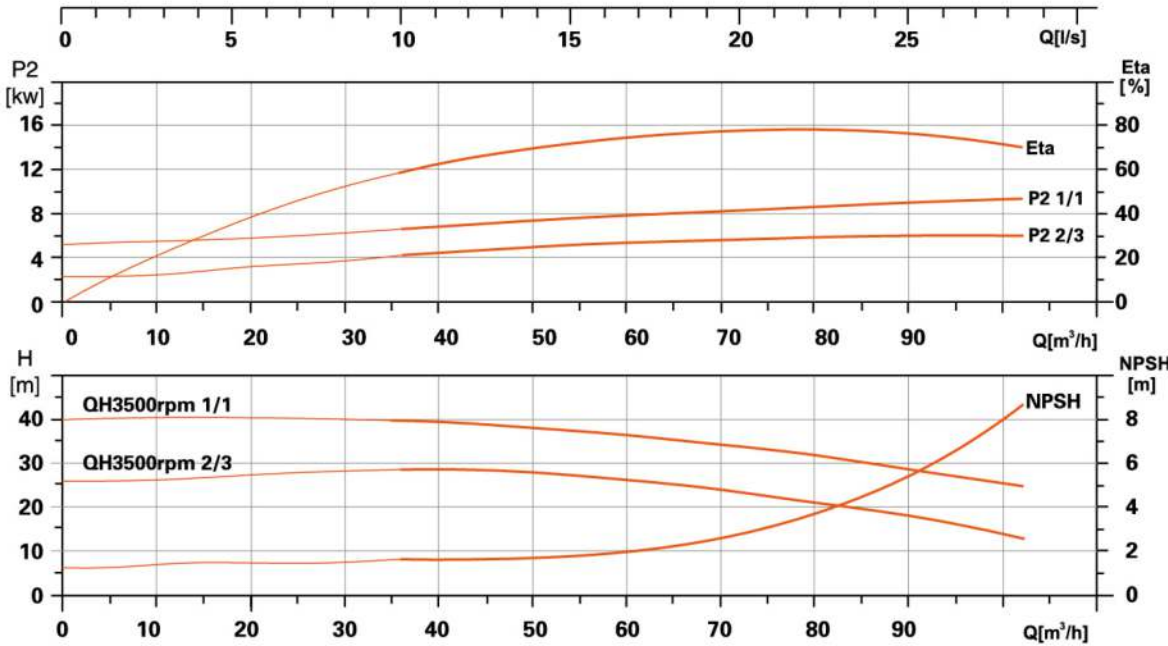
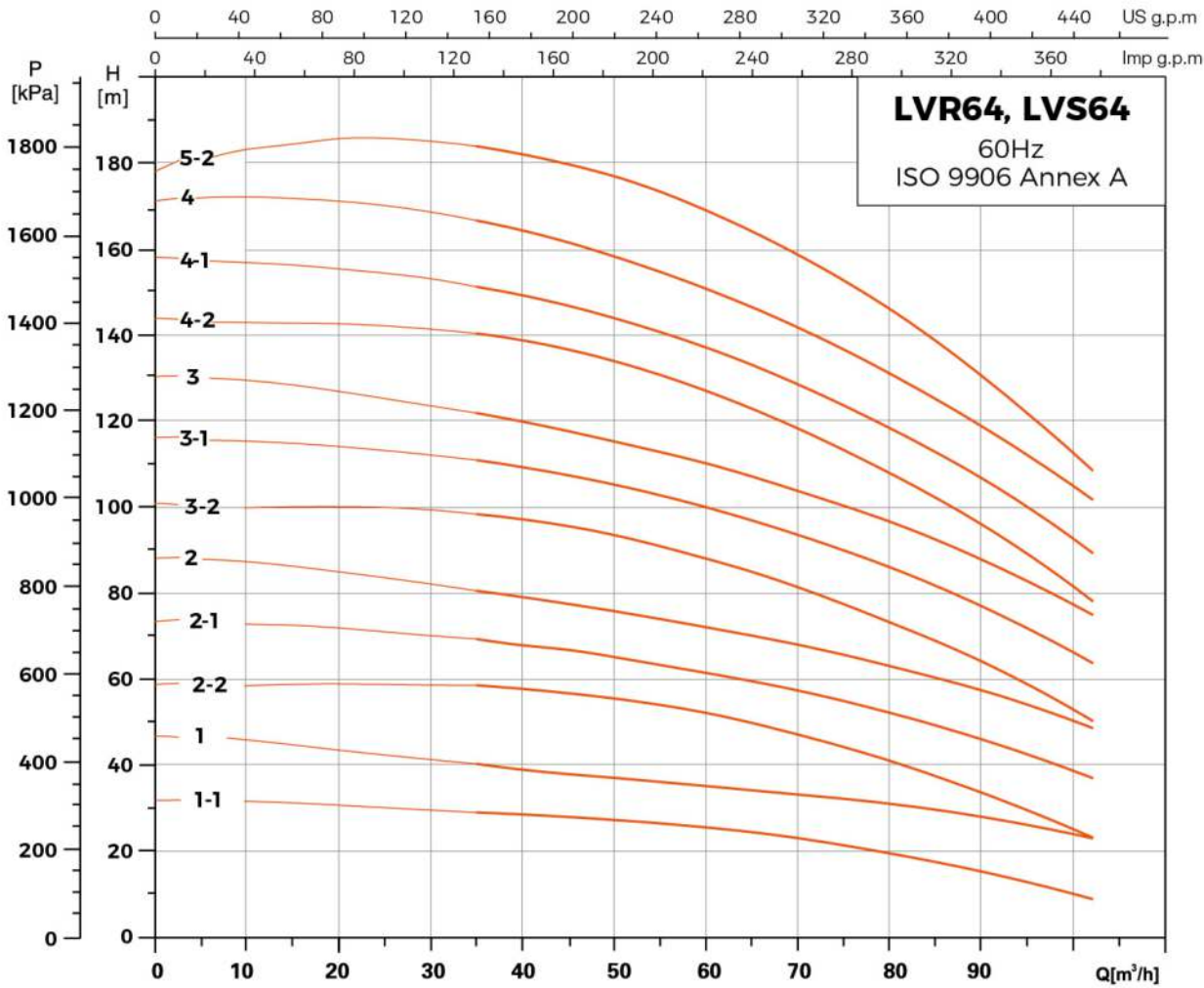
Model	DIN FLANGE(LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
45-1-1	455	958.5	275	210	V1
45-1	455	958.5	275	210	
45-2-2	575	1256	330	255	
45-2-1	575	1256	330	255	
45-2	575	1256	330	255	
45-3-2	755	1391	330	255	
45-3-1	755	1391	330	255	
45-3	825	1391	330	255	
45-4-2	825	1501	380	280	
45-4-1	895	1571	420	305	
45-4	895	1571	420	305	
45-5-2	965	1651	420	305	
45-5-1	965	1651	420	305	
45-5	1035	1651	420	305	
45-6-2	1035	1731	420	305	
45-6-1	1105	1731	420	305	
45-6	1105	1731	420	305	
45-7-2	1175	1861	470	335	
45-7-1	1175	1861	470	335	
45-7	1245	1861	470	335	

Technical Data

Model	Power(kW)	Q(m³/h)	30	40	50	54	60	70
LVR(S)45-1-1	5.5	H(m)	29	27	24	22	19	13
LVR(S)45-1	7.5		34	32	29	28	25	20
LVR(S)45-2-2	11		60	56	49	46.5	40	28
LVR(S)45-2-1	11		65	61	55	51.5	46	35
LVR(S)45-2	15		70	66	60	57	52	41
LVR(S)45-3-2	18.5		95	89	80	75.5	67	51
LVR(S)45-3-1	18.5		101	94	85	80.5	72	57
LVR(S)45-3	18.5		106	100	90	86	78	62
LVR(S)45-4-2	22		131	123	110	104	93	72
LVR(S)45-4-1	30		139	131	118	112	102	81
LVR(S)45-4	30		144	136	124	118	107	87
LVR(S)45-5-2	30		169	159	143	135	122	96
LVR(S)45-5-1	30		174	164	148	141	128	102
LVR(S)45-5	30		179	169	154	146	134	108
LVR(S)45-6-2	37		205	193	174	165	149	118
LVR(S)45-6-1	37		211	199	181	172	156	124
LVR(S)45-6	37		215	203	185	176	161	130
LVR(S)45-7-2	45		245	231	209	198	180	143
LVR(S)45-7-1	45		251	236	214	204	185	149
LVR(S)45-7	45		257	242	220	209	191	155

Hydraulic Performance Curves

Dimension

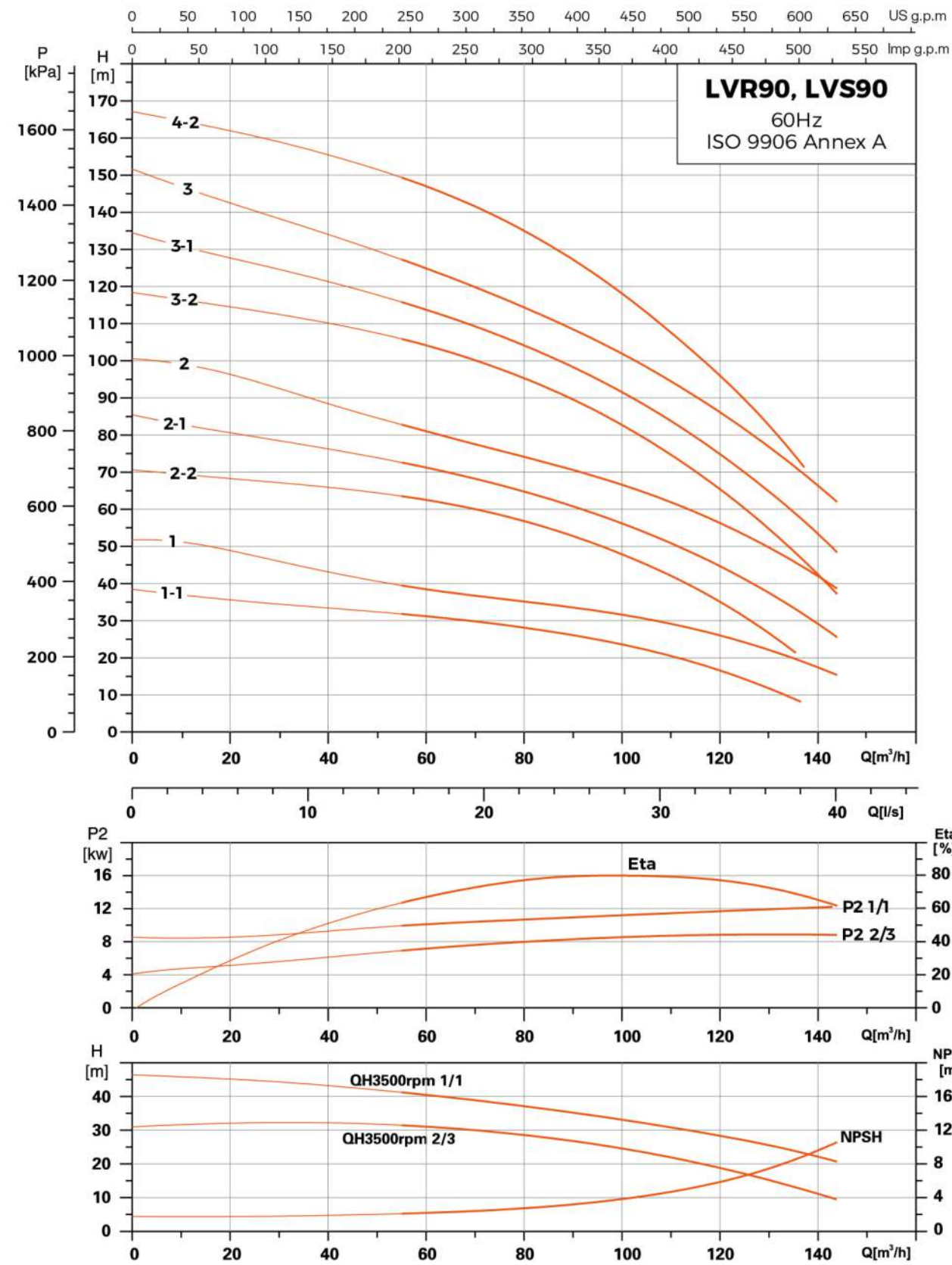


Model	DIN FLANGE(LVR、LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
64-1-1	563	961	275	210	V1
64-1	673	1178	330	255	
64-2-2	755.5	1261	330	255	
64-2-1	755.5	1316	330	255	
64-2	755.5	1346	380	280	
64-3-2	838	1428	380	280	
64-3-1	838	1498	420	305	
64-3	838	1498	420	305	
64-4-2	920.5	1581	420	305	
64-4-1	920.5	1581	420	305	
64-4	920.5	1631	470	335	
64-5-2	1003	1713	470	335	

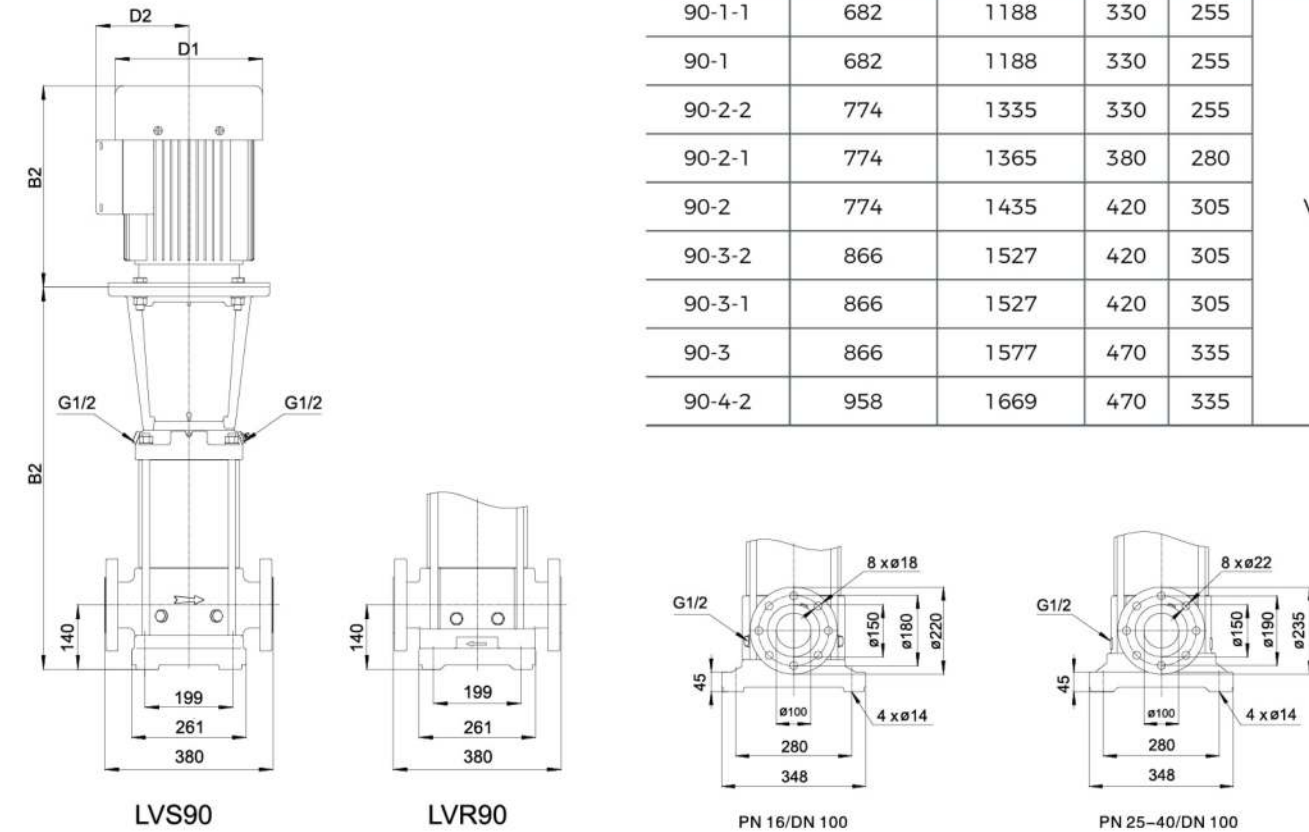
Technical Data

Model	Power(kW)	Q(m³/h)	40	60	70	77	90	100
LVR(S)64-1-1	7.5	H(m)	28	27	23	20.5	15	10
LVR(S)64-1	11		38	35	33	31	27	24
LVR(S)64-2-2	15		57	52	47	43	33	24
LVR(S)64-2-1	18.5		68	61	57	53.5	46	38
LVR(S)64-2	22		79	72	68	64.5	57	49
LVR(S)64-3-2	22		97	88	81	76	64	53
LVR(S)64-3-1	30		109	100	93	88	77	66
LVR(S)64-3	30		120	110	104	99	87	77
LVR(S)64-4-2	37		139	127	119	111	96	81
LVR(S)64-4-1	37		150	137	129	122	106	92
LVR(S)64-4	45		164	151	142	135	119	104
LVR(S)64-5-2	45		182	169	159	150	131	112

Hydraulic Performance Curves



Dimension

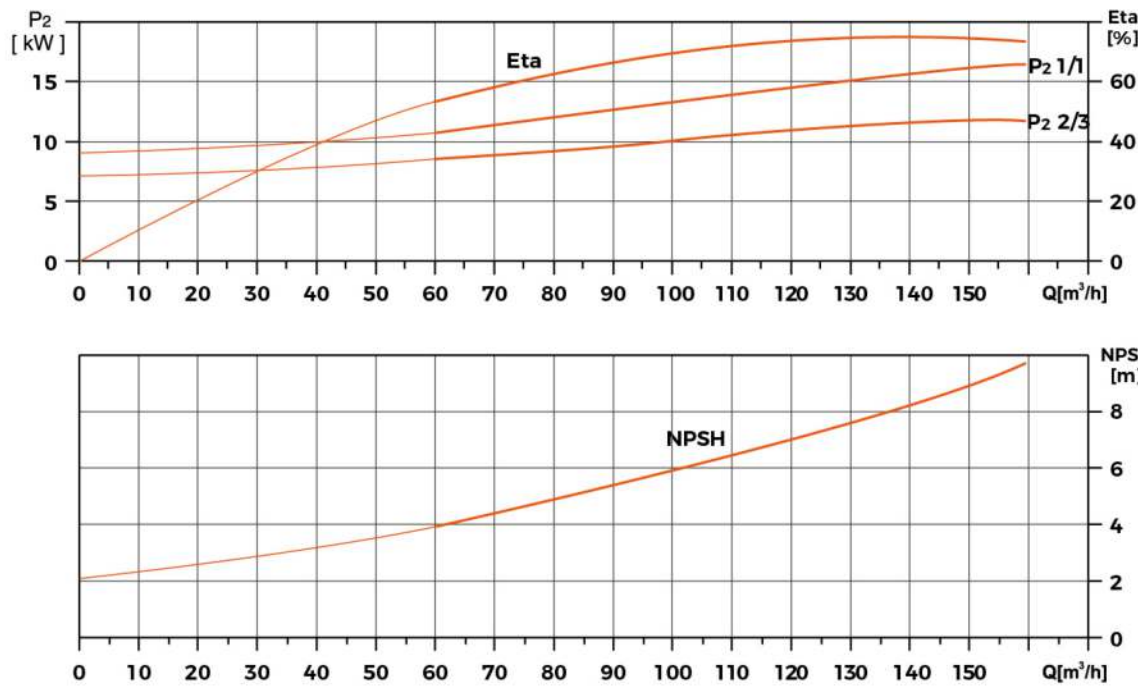
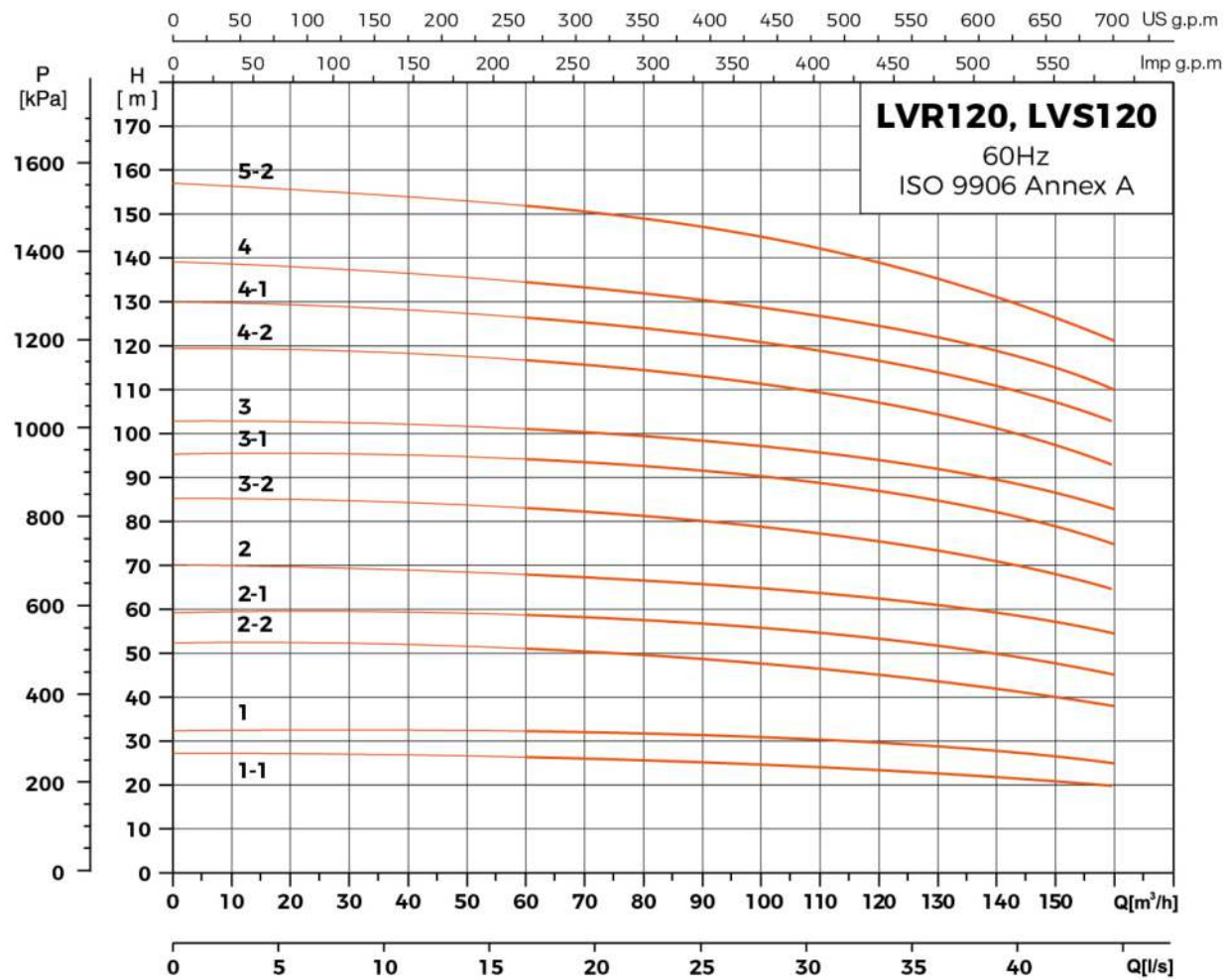


Model	DIN FLANGE(LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
90-1-1	682	1188	330	255	V1
90-1	682	1188	330	255	
90-2-2	774	1335	330	255	
90-2-1	774	1365	380	280	
90-2	774	1435	420	305	
90-3-2	866	1527	420	305	
90-3-1	866	1527	420	305	
90-3	866	1577	470	335	
90-4-2	958	1669	470	335	

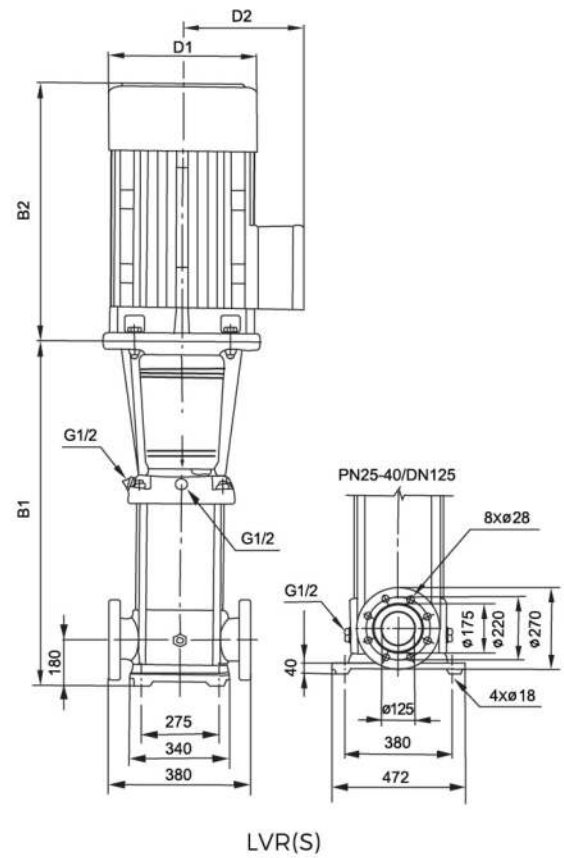
Technical Data

Model	Power(kW)	Q(m³/h)	60	70	80	90	100	108	120
LVR(S)90-1-1	11	H(m)	31	30	28	26	23	21	16.5
LVR(S)90-1	15		38.5	36	35	33	31	29	26
LVR(S)90-2-2	18.5		62	60	57	53	48	42	35
LVR(S)90-2-1	22		71	68	65	60	56	50	44.5
LVR(S)90-2	30		81	77.5	74	70.5	66.5	62	56.5
LVR(S)90-3-2	37		104	100	95.5	89.5	83	75	65.5
LVR(S)90-3-1	37		114	110	104	98	91.5	83	75
LVR(S)90-3	45		125	120	115	108	102	94	86
LVR(S)90-4-2	45		147	142	135	127	118	109	95.5

Hydraulic Performance Curves



Dimension



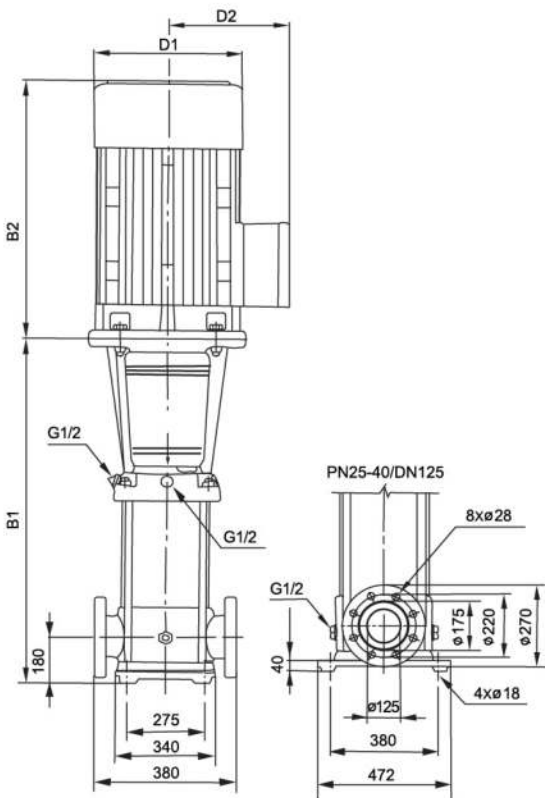
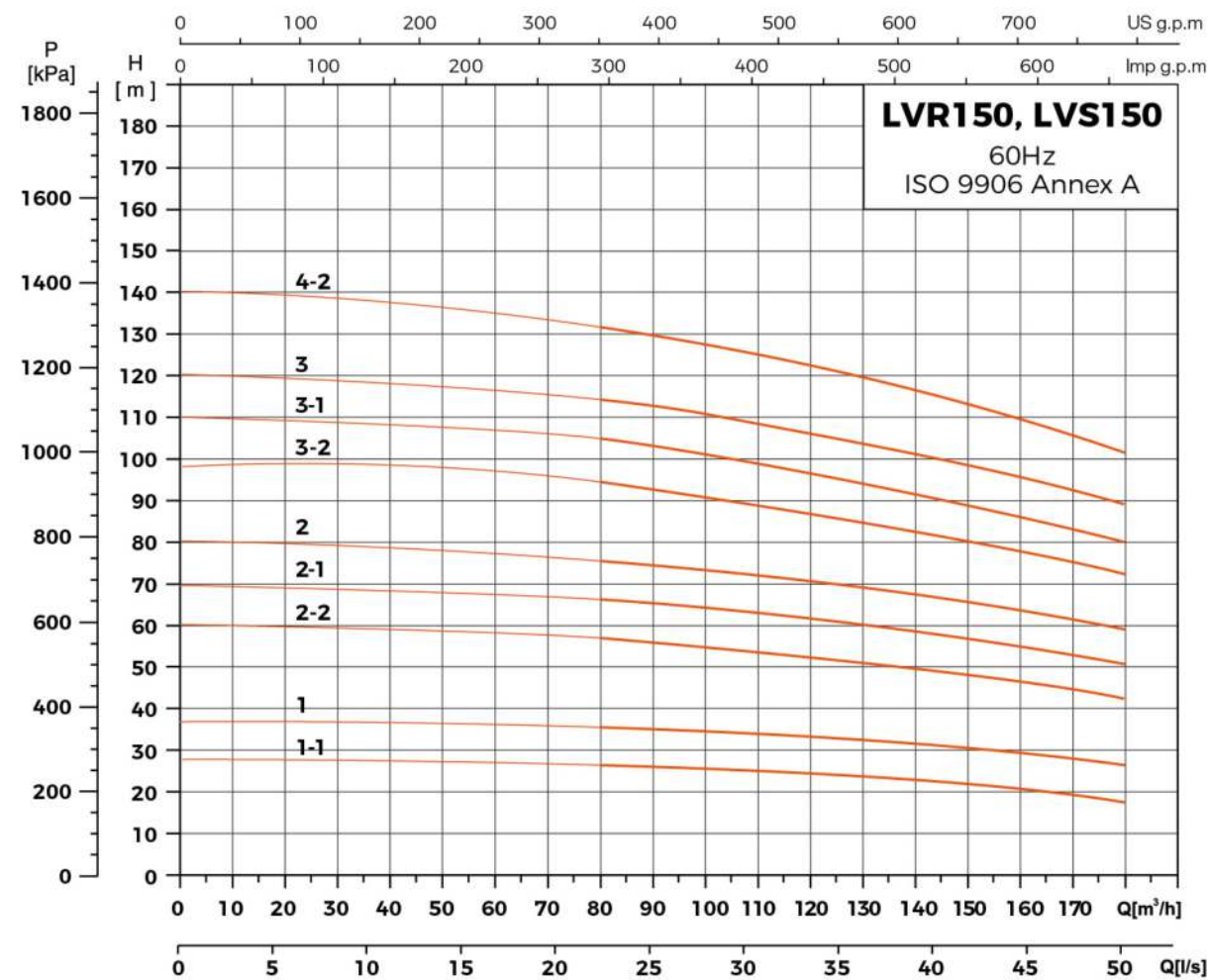
Model	DIN FLANGE(LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
120-1-1	840	1333	254	254	V1
120-1	840	1400	330	330	
120-2-2	1000	1680	420	420	
120-2-1	1000	1680	420	420	
120-2	1000	1680	420	420	
120-3-2	1160	1875	470	470	
120-3-1	1160	1875	470	470	
120-3	1190	1975	510	510	
120-4-2	1350	2195	580	580	
120-4-1	1350	2195	580	580	
120-4	1350	2195	580	580	
120-5-2	1510	2355	580	580	

Technical Data

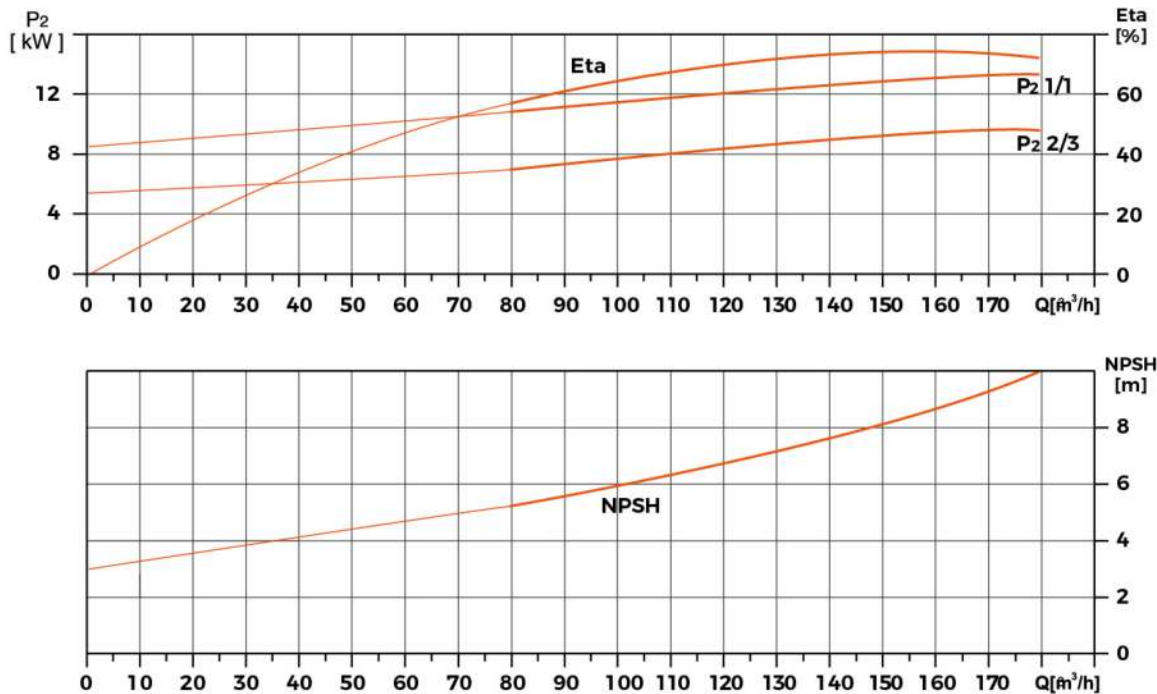
Model	Power(kW)	Q(m³/h)	60	70	80	90	100	110	120	130	140	150	160
LVR(S)120-1-1	15	H(m)	26.5	26	25	24.5	23.8	23	22.5	21.5	21.3	21	20
LVR(S)120-1	18.5		30.8	30.7	30.7	30.5	30.3	29.5	28.8	27.6	26.4	25.4	24.4
LVR(S)120-2-2	30		51.5	50.5	49.5	47.5	46	45.5	44.8	43	41	39.7	38.5
LVR(S)120-2-1	30		58.3	58	57.3	56	54.7	54	53	51.5	50	47.4	45
LVR(S)120-2	37		66.3	66	65.7	65	64.4	63	62	60.7	59.6	57	54.6
LVR(S)120-3-2	45		83	82	81	79.5	78	76	74.5	73.5	71	68.5	65
LVR(S)120-3-1	45		91.3	91	90.4	89	87.7	86	84.4	82	80	76.7	73.3
LVR(S)120-3	55		100.3	100	99.4	98.3	97.3	95.5	94	92	90	86.3	82.7
LVR(S)120-4-2	75		116	115.5	114	113	111	109	105.5	104	100	97	93
LVR(S)120-4-1	75		126	125.4	124.6	122.6	120.6	118.5	116.5	114	111.3	107	103
LVR(S)120-4	75		134	133	132	131	129.5	127.5	125	122	119	114.5	109.5
LVR(S)120-5-2	75		152	151	149.7	147	144	141.5	139	135.5	132	127	122

Hydraulic Performance Curves

Dimension



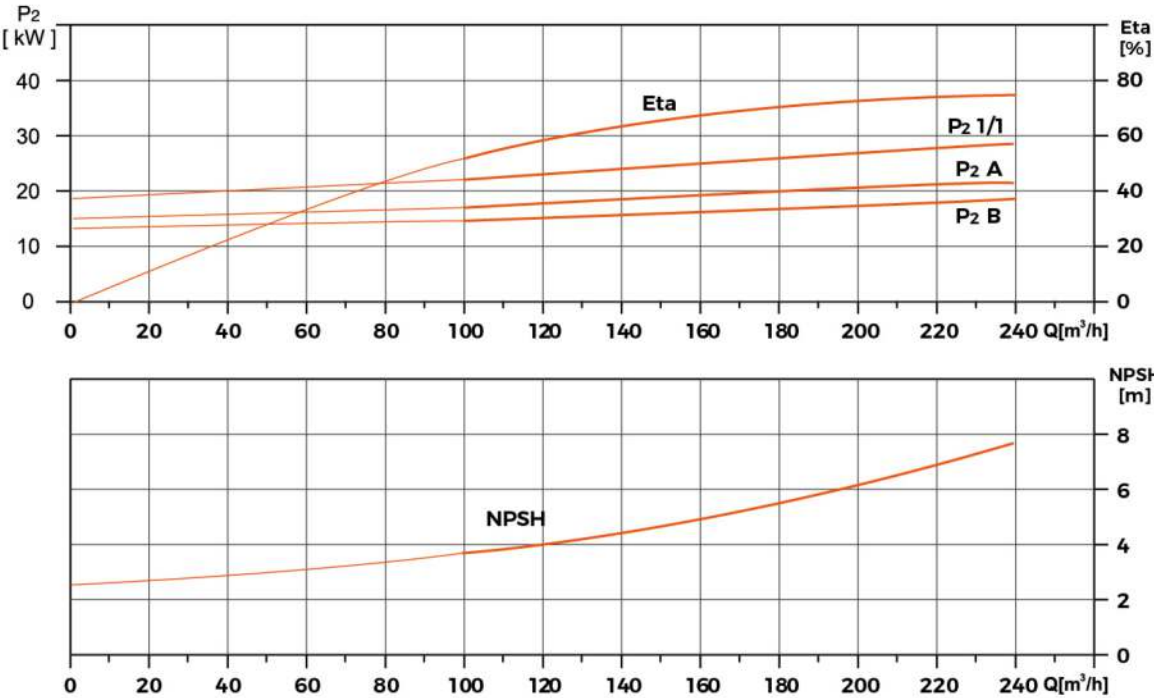
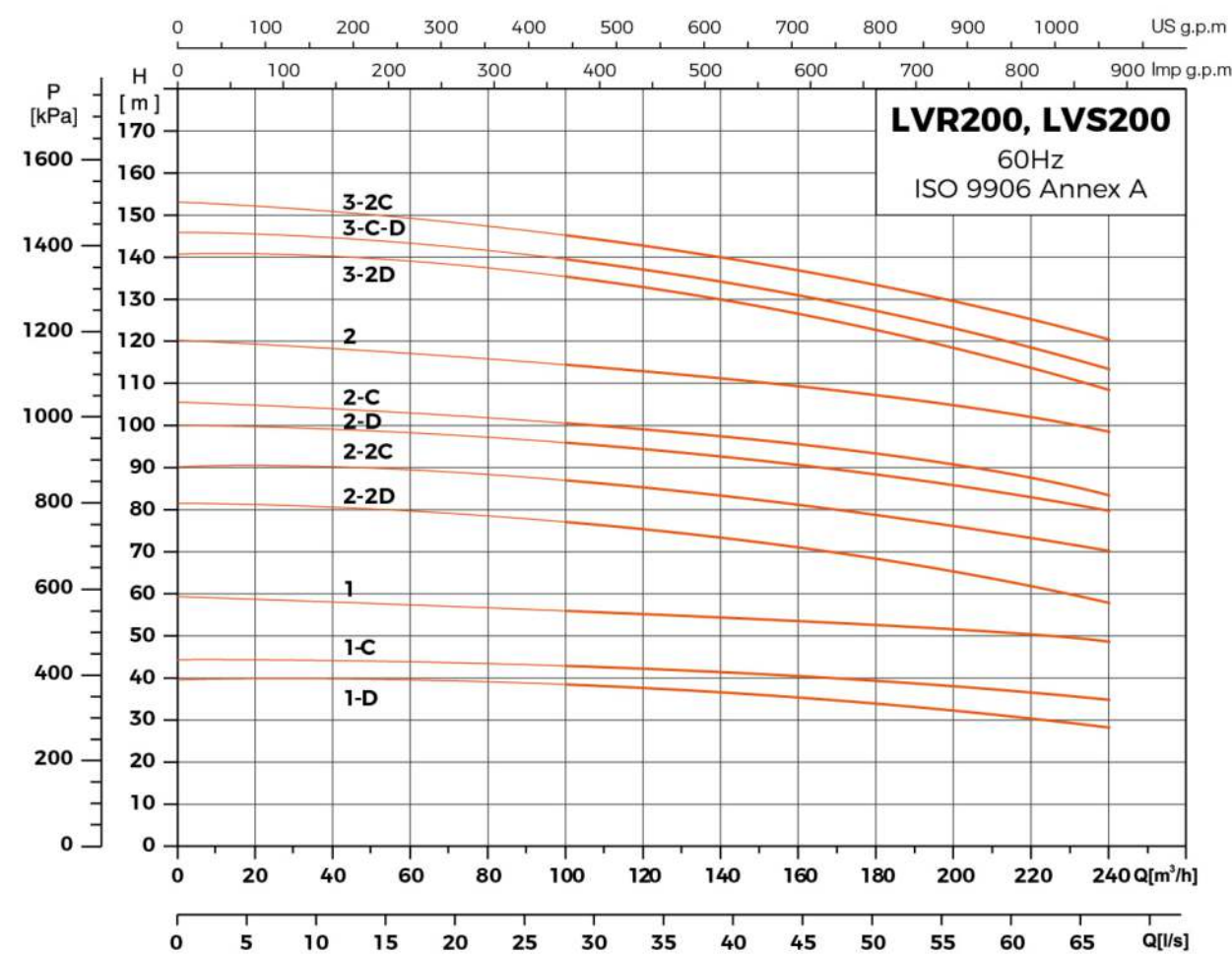
Model	DIN FLANGE(LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
150-1-1	840	1333	254	175	V1
150-1	840	1440	380	280	
150-2-2	1000	1680	420	305	
150-2-1	1000	1680	420	305	
150-2	1000	1715	470	335	
150-3-2	1190	1975	510	370	
150-3-1	1190	2035	580	410	
150-3	1190	2035	580	410	
150-4-2	1350	2195	580	410	



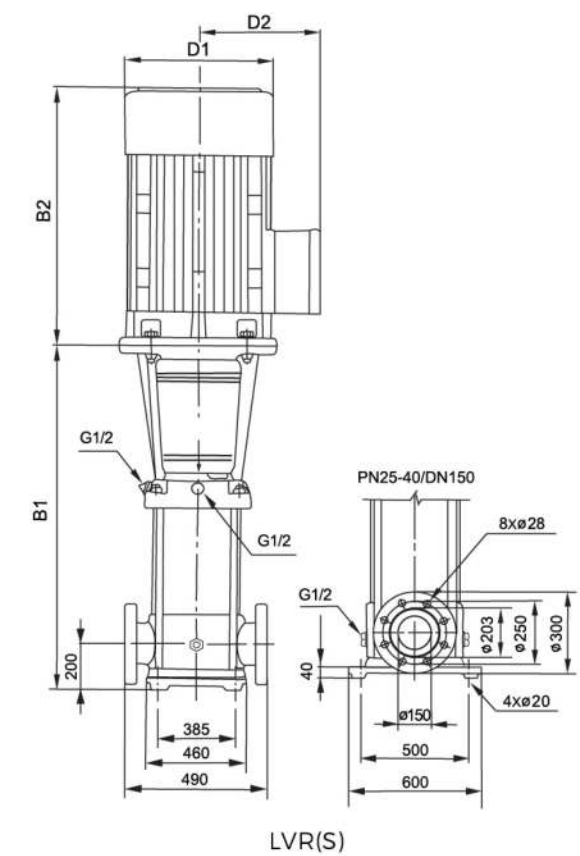
Technical Data

Model	Power(kW)	Q(m³/h)	80	90	100	110	120	130	140	150	160	170	180
LVR(S)150-1-1	15	H(m)	26.5	26	25.7	25	24.3	23.8	23.2	22.3	21.2	19.5	18
LVR(S)150-1	22		35	34.5	34	33.6	33	32.3	31.7	30.7	29.6	28	27
LVR(S)150-2-2	30		57	55.5	53	52	51.3	50	49	48	47	45	43
LVR(S)150-2-1	37		67	65	63.5	62	61	60	58.5	56	55	53	51
LVR(S)150-2	45		75.5	74.5	73.6	72	70.4	69	67.5	65.5	63.5	61	59
LVR(S)150-3-2	55		94	92	90.5	88.4	86.4	83.8	81	80	78	75.3	72.5
LVR(S)150-3-1	75		104	102.5	100	98	96	94	92	89	87	84	80
LVR(S)150-3	75		114.4	113	111.3	109	106.5	104	101.5	99	96	93	59.4
LVR(S)150-4-2	75		133	130.3	127.6	124.6	121.7	118.3	115	112.5	110	106.3	102.5

Hydraulic Performance Curves



Dimension



Model	DIN FLANGE(LVR, LVS)		D1	D2	Motor Mounting Code
	B1	B1+B2			
200-1-D	907	1587	420	305	V1
200-1-C	907	1587	420	305	
200-1	907	1622	470	335	
200-2-2D	1131	1916	510	370	
200-2-2C	1131	1976	580	410	
200-2-D	1131	1976	580	410	
200-2-C	1131	2026	580	410	
200-2	1131	2026	580	410	
200-3-2D	1325	2425	645	530	
200-3-C-D	1325	2425	645	530	
200-3-2C	1325	2425	645	530	

Technical Data

Model	Power(kW)	Q(m³/h)	100	120	140	160	180	200	220	240
LVR(S)200-1-D	30	H(m)	38	37	36.5	35.5	34	33	31	29
LVR(S)200-1-C	37		43	42	41.5	40	39	38	36.5	34.5
LVR(S)200-1	45		56	55	54.5	53.5	53	52	50.5	48.5
LVR(S)200-2-2D	55		77.5	75.5	73.5	71	68.5	66	62	58.5
LVR(S)200-2-2C	75		87	85	83	81	79	77	74	70
LVR(S)200-2-D	75		95.5	93.5	92.5	90.5	88.5	86	82.5	79
LVR(S)200-2-C	90		100	98.5	97.5	95.5	93.5	91	88	84
LVR(S)200-2	90		114	112.5	111	109.5	107.5	105	101.5	98.5
LVR(S)200-3-2D	110		135	132.5	129.5	126	122.5	119	114	108.5
LVR(S)200-3-C-D	110		139	136.5	134	131	125	124	119	113.5
LVR(S)200-3-2C	110		145	142.5	140	137	133.5	130	125.5	120