

NOCCHI VLRI/X

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HIGH HYDRAULIC EFFICIENCY, ENTIRELY IN AISI 304 STAINLESS STEEL (VLRI) OR AISI 316 (VLRX), STANDARDIZED MOTOR

The VLRI/X series offers vertical multi-stage centrifugal pumps with in-line suction and delivery ports. Directly coupled with an electric motor. Completely in AISI 304 STAINLESS STEEL / 316 for sea water and special applications. Non self-priming.

APPLICATIONS

- Water supply
- Pressure increase system
- Irrigation
- High pressure washing
- Fire fighting systems
- Boiler supply
- Liquid transfer

MOTOR

- Electric asynchronous motor with closed casing and external ventilation. The main dimensions are in line with the provisions envisaged by the standards DIN and IEC.
- Construction design: Up to 4.0 Kw V18.
- From 5.5 Kw V1.
- Insulation class F.
- Protection rating IP 55.
- Maximum ambient temperature: 40° C.
- Rotation speed 2900 rpm.
- Oversized bearings for optimal load support.



IDENTIFICATION SYMBOL

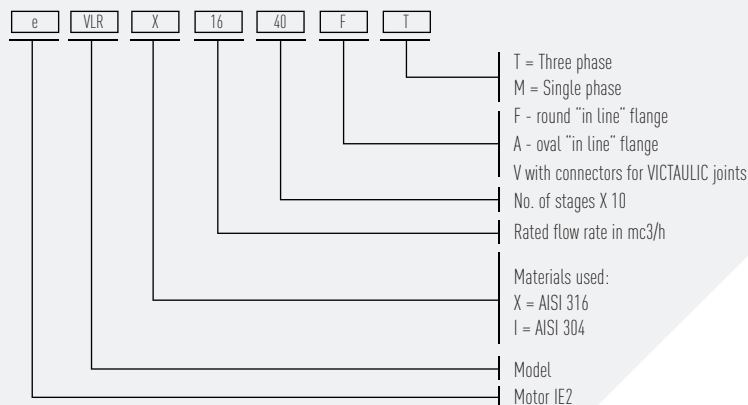
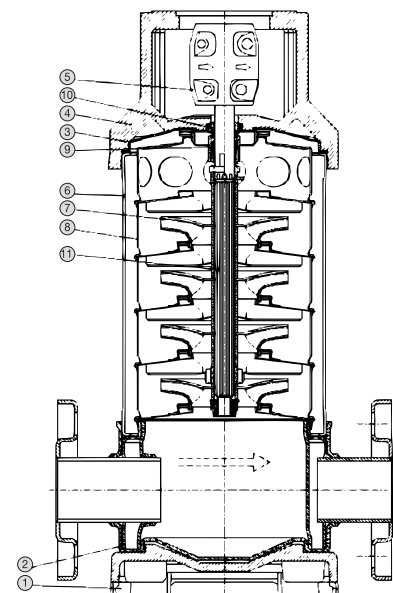


TABLE OF MATERIALS

COMPONENT		VLRI 2B - 4 - 8 - 16	VLRX 2B - 4 - 8 - 16	VLRX 33 - 46 - 66 - 92
1	Support base	Cast iron EN GJL 200		N/A
2	Pump body	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X5CrNiMo19-11-2 (AISI 316 cast)
3	Gasket case	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X5CrNiMo19-11-2 (AISI 316 cast)
4	Motor housing	Cast iron EN GJL 200		
5	Motor coupling	Cast iron EN GJS 400		Cast iron EN GJL 200
6	Casing	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X2CrNiMo17-12-2 (AISI 316L)
7	Impeller	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X2CrNiMo17-12-2 (AISI 316L)
8	Diffuser	Stainless steel X5CrNi18-10 (AISI 304)	Stainless steel X2CrNiMo17-12-3 (AISI 316)	Stainless steel X2CrNiMo17-12-2 (AISI 316L)
9	Rotary gasket	Silicon carbide		
10	Fixed gasket	Carbon		
11	Shaft	Stainless steel X2CrNiMo17-12-3 (AISI 316)		Stainless steel X2CrNiMo22-5-3 (UNS S 31803)
12	Seals	EPDM		



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VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

APPLICATION DATA

	VLRI / X 2B	VLRI / X 4	VLRI / X 8	VLRI / X 16
Liquid temperature	from -15 to +120° C	from -15 to +120° C	from -15 to +120° C	from -15 to +120° C
Max. operating pressure (including suction head)	25 bar (max temp 40° C) 21 bar (max temp 120° C)	25 bar (max temp 40° C) 21 bar (max temp 120° C)	25 bar (max temp 40° C) 23 bar (max temp 120° C)	VLRI/X 16/30-2 - VLRI/X 16/160 25 bar (max temp 85° C) VLRI/X 16/30-2 - VLRI/X 16/160 23 bar (max temp 120° C)
Minimum suction head	NPSH plus safety margin of 0.5 m			

APPLICATION DATA

	VLRX 33	VLRX 46	VLRX 66	VLRX 92
Liquid temperature	from -20 to +120° C	from -30 to +120° C	from -30 to +120° C	from -30 to +120° C
Max. operating pressure (including suction head)	16 bar up to VLRX 33-60/2 25 bar up to VLRX 33-130/1	16 bar up to VLRX 46-50 25 bar up to VLRX 46-90 40 bar up to VLRX 46-130/2	16 bar up to VLRX 66-50 25 bar up to VLRX 66-80	16 bar up to VLRX 92-40 25 bar up to VLRX 92-70/2
Minimum suction head	NPSH plus safety margin of 0.5 m			

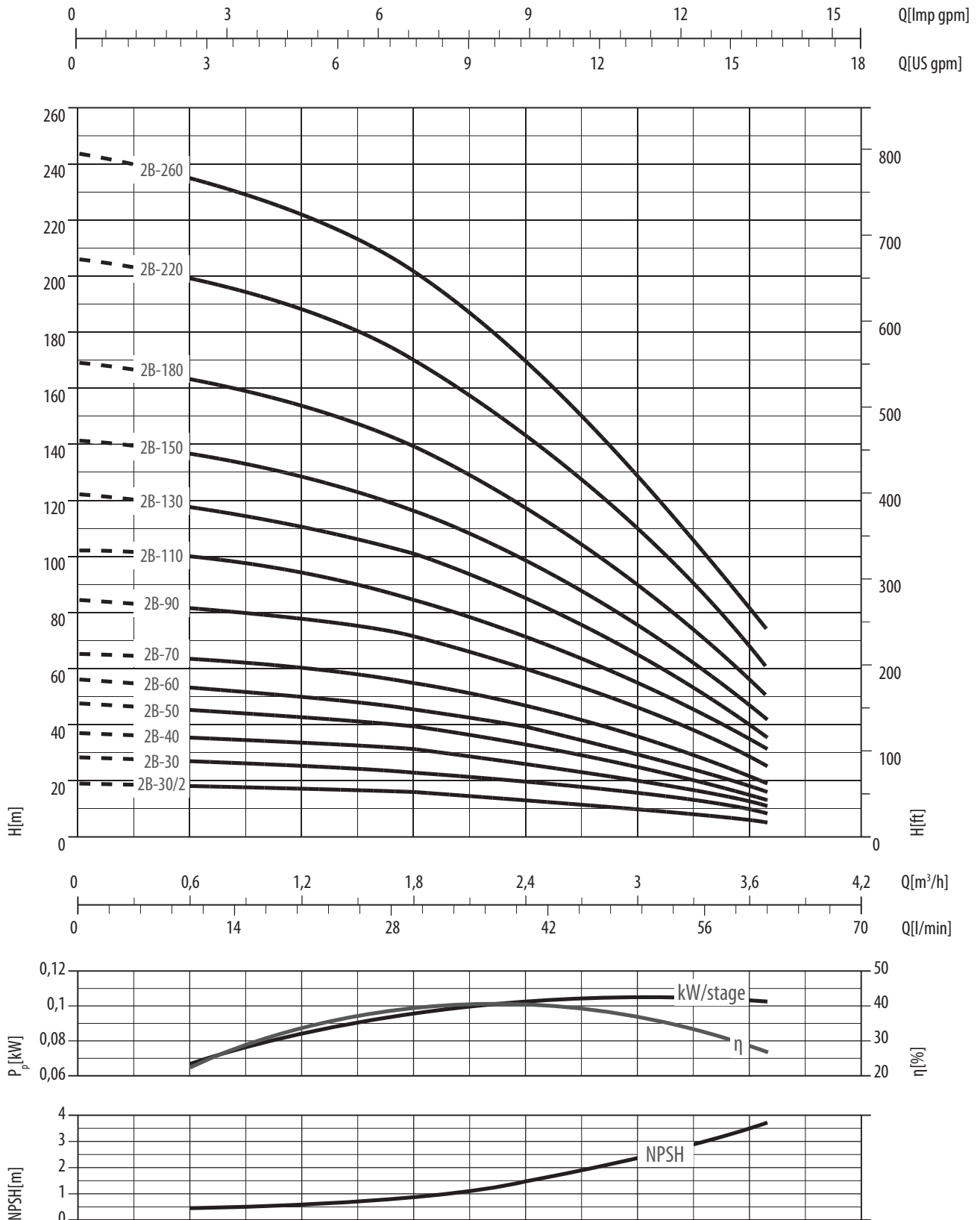
VERSIONS AVAILABLE

VERSIONS		F - in line ports with ROUND FLANGES (counterflanges optional)	A - in line ports with OVAL FLANGES complete with threaded counterflange	V - in line ports with connectors for VICTAULIC joints
2B	VLRI	X	X	
	VLRX	X	X	X
4	VLRI	X	X	
	VLRX	X	X	X
8	VLRI	X		
	VLRX	X		X
16	VLRI	X		
	VLRX	X		
33	VLRX	X		
46	VLRX	X		
66	VLRX	X		
92	VLRX	X		

NOCCHI VLRI/X 2B

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRI/X 2B	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 2B

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

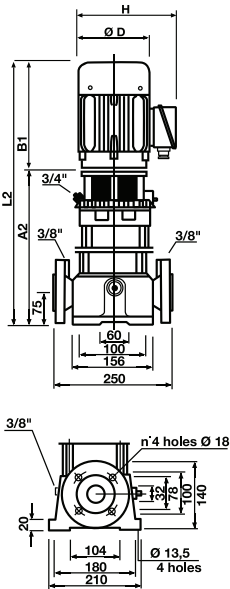
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	µF.	Q	L/min	10	20	30	40	50
	HP	kW					m³/h	0.6	1.2	1.8	2.4	3
VLRI/X 2B- 30/2 F M VLRI/X 2B- 30/2 F T	0.5	0.37	1~230 V 3~230 - 400 V	2.8 1.7-1.0	12.5	m.c.a./m.w.c.		18	17	16	13	10
VLRI/X 2B- 30 F M VLRI/X 2B- 30 F T	0.5	0.37	1~230 V 3~230 - 400 V	2.8 1.7-1.0	12.5			27	26	23	20	15
VLRI/X 2B- 40 F M VLRI/X 2B- 40 F T	0.75	0.55	1~230 V 3~230 - 400 V	4.2 2.6-1.5	16			36	34	31	26	20
VLRI/X 2B- 50 F M VLRI/X 2B- 50 F T	0.75	0.55	1~230 V 3~230 - 400 V	4.2 2.6-1.5	16			45	43	39	33	25
VLRI/X 2B- 60 F M VLRI/X 2B- 60 F T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-2	25			54	51	46	39	30
VLRI/X 2B- 70 F M VLRI/X 2B- 70 F T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-2	25			64	60	54	46	35
VLRI/X 2B- 90 F M VLRI/X 2B- 90 F T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			82	77	70	59	45
VLRI/X 2B-110 F M VLRI/X 2B-110 F T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			100	94	85	72	55
VLRI/X 2B-130 F M VLRI/X 2B-130 F T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			118	111	101	85	65
VLRI/X 2B-150 F M VLRI/X 2B-150 F T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			136	128	116	99	75
VLRI/X 2B-180 F T	3	2.2	3~230 - 400 V	8.5-4.9				163	154	139	118	90
VLRI/X 2B-220 F T	3	2.2	3~230 - 400 V	8.5-4.9				199	188	170	144	110
VLRI/X 2B-260 F T	4	3	3~230 - 400 V	11.6-6.7			235	222	201	170	130	

- F : in-line ports with round flanges 1" 1/4 (DN32). Optional counterflanges 1/4 GAS .
- A : (optional from VLRI/X 2B-150) with oval flanges 1" 1/4 (DN32). Optional counterflanges 1/4 GAS .
- V : (optional only for VLRX): in line ports 1" 1/4 with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

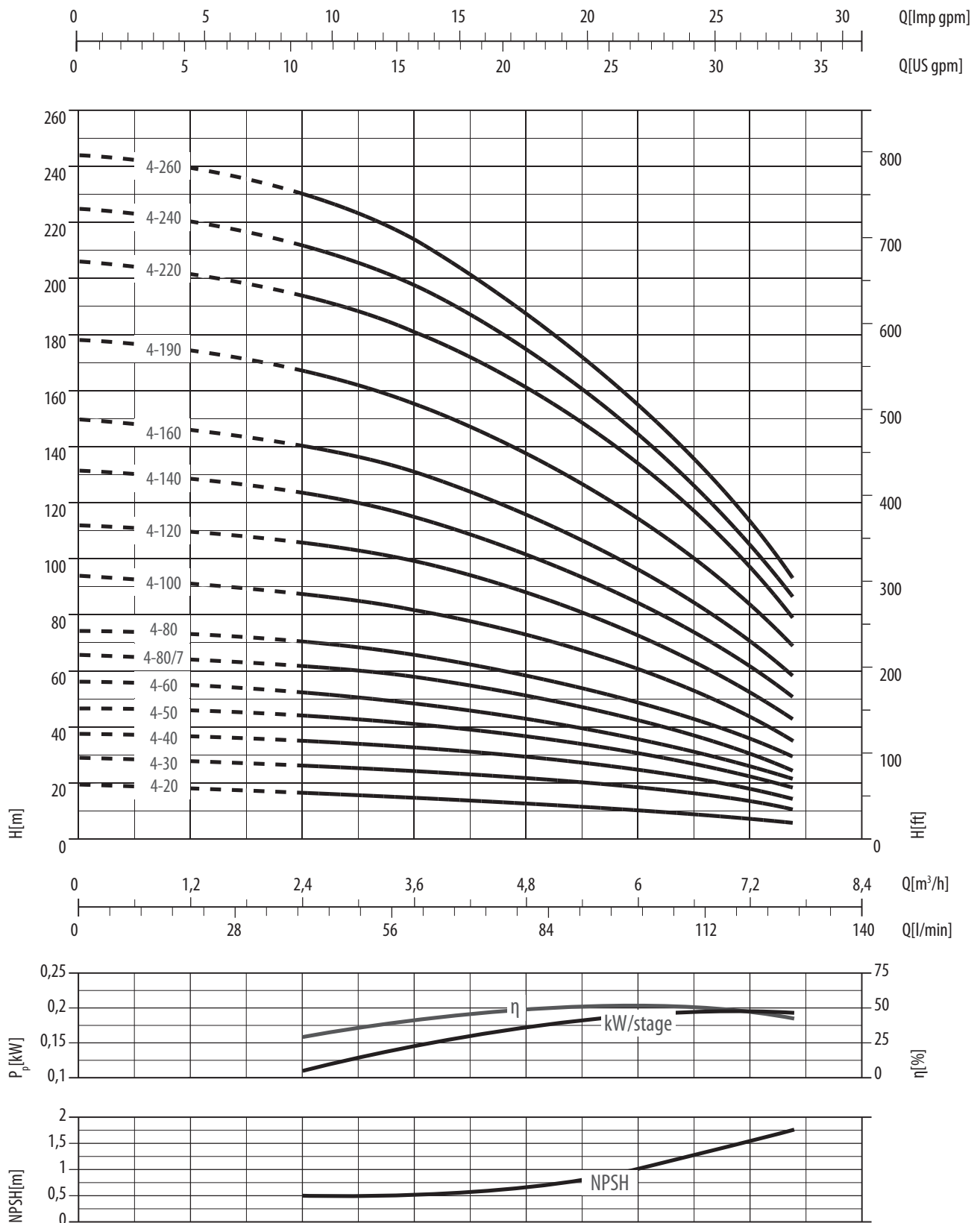
MODEL	Dimensions (mm)					Net weight (kg)
	A	B	L	D	H	
VLRI/X 2B - 30/2 F	250	215	465	158	168	26
VLRI/X 2B - 30 F	250	215	465	158	168	27
VLRI/X 2B - 40 F	268	215	483	158	168	29
VLRI/X 2B - 50 F	268	215	501	158	168	31
VLRI/X 2B - 60 F	308	245	553	170	203	32
VLRI/X 2B - 70 F	326	245	571	170	203	39
VLRI/X 2B - 90 F	362	245	607	170	203	39
VLRI/X 2B - 110 F	388	245	633	170	203	42
VLRI/X 2B - 130 F	453	255	708	180	205	43
VLRI/X 2B - 150 F	489	255	744	180	205	49
VLRI/X 2B - 180 F	568	280	848	180	205	49
VLRI/X 2B - 220 F	640	280	920	180	205	61
VLRI/X 2B - 260	716	300	1016	196	235	63



NOCCHI VLRI/X 4

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRI/X 4	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 4

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

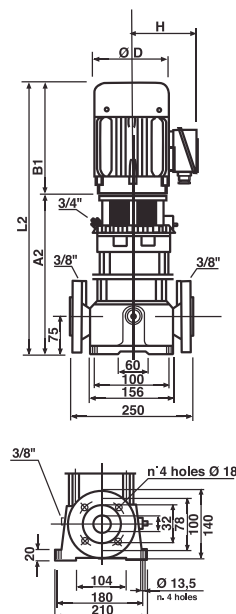
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	40	60	80	100	120
	HP	kW					m³/h	2.4	3.6	4.8	6	7.2
VLRI/X 4- 20 F M VLRI/X 4- 20 F T	0.5	0.37	1~230 V 3~230 - 400 V	2.8 1.7-1.0	12.5	m.c.a./m.w.c.		18	16	15	12	9
VLRI/X 4- 30 F M VLRI/X 4- 30 F T	0.75	0.55	1~230 V 3~230 - 400 V	4.2 2.6-1.5	16			27	25	22	18	13
VLRI/X 4- 40 F M VLRI/X 4- 40 F T	1	0.75	1~230 V 3~230 - 400 V	5 3.5-2	25			35	33	29	24	18
VLRI/X 4- 50 F M VLRI/X 4- 50 F T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			44	41	36	30	22
VLRI/X 4- 60 F M VLRI/X 4- 60 F T	1.5	1.1	1~230 V 3~230 - 400 V	7.9 4.5-2.6	31.5			53	49	44	36	27
VLRI/X 4- 80/7 F M VLRI/X 4- 80/7 F T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			62	58	51	43	31
VLRI/X 4- 80 F M VLRI/X 4- 80 F T	2	1.5	1~230 V 3~230 - 400 V	10.5 6.1-3.5	36			71	66	58	49	35
VLRI/X 4-100 F T	3	2.2	3~230 - 400 V	8.5-4.9				89	82	73	61	44
VLRI/X 4-120 F T	3	2.2	3~230 - 400 V	8.5-4.9				106	99	87	73	53
VLRI/X 4-140 F T	4	3	3~230 - 400 V	11.6-6.7				124	115	102	85	62
VLRI/X 4-160 F T	4	3	3~230 - 400 V	11.6-6.7				142	131	117	97	71
VLRI/X 4-190 F T	5.5	4	3~230 - 400 V	14.3-8.3				168	156	138	115	84
VLRI/X 4-220 F T	5.5	4	3~230 - 400 V	14.3-8.3				195	181	160	134	97
VLRI/X 4-240 F T	7.5	5.5	3~400 - 690 V	11.3-8.5				213	197	175	146	106
VLRI/X 4-260 F T	7.5	5.5	3~400 - 690 V	11.3-8.5				230	214	189	158	115

- F : in-line ports with round flanges 1" 1/4 (DN32). Optional counterflanges 1" 1/4 GAS .
- A : (optional from VLRI/X 4-160) with oval flanges 1" 1/4 (DN32). Optional counterflanges 1" 1/4 GAS .
- V : (optional only for VLRX) : in line ports 1" 1/4 with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

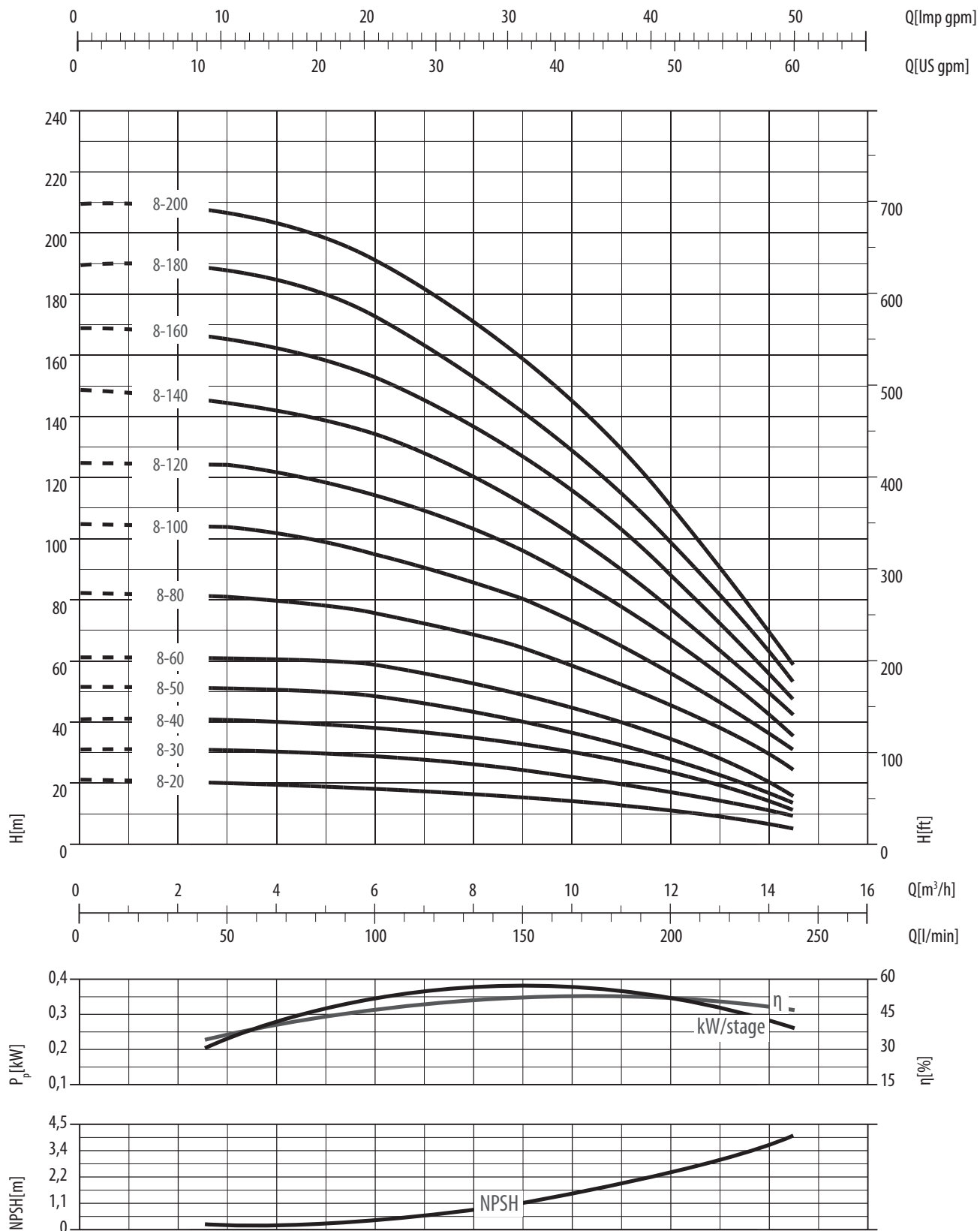
MODEL	Dimensions (mm)					Net weight (kg)
	A	B	L	D	H	
VLRI/X 4 - 20 F	250	215	465	158	168	26
VLRI/X 4 - 30 F	277	215	492	158	168	27
VLRI/X 4 - 40 F	308	245	553	170	203	29
VLRI/X 4 - 50 F	335	245	580	170	203	31
VLRI/X 4 - 60 F	362	245	607	170	203	32
VLRI/X 4 - 80/7 F	435	255	690	180	205	39
VLRI/X 4 - 80 F	435	255	690	180	205	39
VLRI/X 4 - 100 F	489	280	769	180	205	42
VLRI/X 4 - 120 F	543	280	823	180	205	43
VLRI/X 4 - 140 F	601	300	901	196	235	49
VLRI/X 4 - 160 F	655	300	955	196	235	49
VLRI/X 4 - 190 F	761	325	1086	218	256	61
VLRI/X 4 - 220 F	842	325	1167	218	256	63
VLRI/X 4 - 240 F	923	390	1313	350	350	87
VLRI/X 4 - 260 F	977	390	1367	350	350	89



NOCCHI VLRI/X 8

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

VLRI/X 8	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 8

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

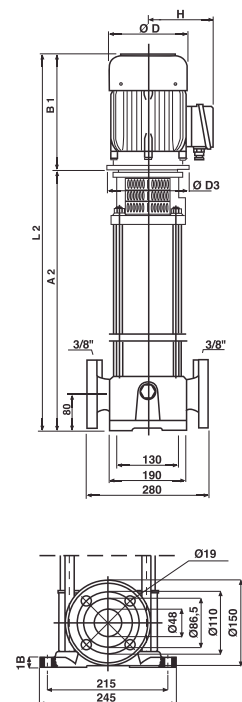
MODEL	Motor output		Volt	In (A)	μF.	Q	L/min	50	100	150	175	200
	HP	kW					m³/h	3	6	9	10.5	12
VLRI/X 8 - 20 F M VLRI/X 8 - 20 F T	1	0.75	1-230 V 3-230 - 400 V	5 3.5-1.9	25	m.c.a./m.w.c.	21	19	16	14	11	
VLRI/X 8 - 30 F M VLRI/X 8 - 30 F T	1.5	1.1	1-230 V 3-230 - 400 V	7.9 4.5-2.6	31.5		31	29	24	21	16	
VLRI/X 8 - 40 F M VLRI/X 8 - 40 F T	2	1.5	1-230 V 3-230 - 400 V	10.5 6.1-3.5	36		41	38	32	27	22	
VLRI/X 8 - 50 F T	3	2.2	3-230 - 400 V	8.5-4.9			52	48	40	34	27	
VLRI/X 8 - 60 F T	3	2.2	3-230 - 400 V	8.5-4.9			62	58	48	41	33	
VLRI/X 8 - 80 F T	4	3	3-230 - 400 V	11.6-6.7			82	77	64	55	44	
VLRI/X 8 - 100 F T	5.5	4	3-230 - 400 V	14.3-8.3			103	96	80	69	55	
VLRI/X 8 - 120 F T	5.5	4	3-230 - 400 V	14.3-8.3			124	115	96	82	65	
VLRI/X 8 - 140 F T	7.5	5.5	3-400 - 690 V	11.3-8.5			144	134	112	96	76	
VLRI/X 8 - 160 F T	7.5	5.5	3-400 - 690 V	11.3-8.5			165	154	128	110	87	
VLRI/X 8 - 180 F T	10	7.5	3-400 - 690 V	14.3-8.3			185	173	144	123	98	
VLRI/X 8 - 200 F T	10	7.5	3-400 - 690 V	14.3-8.3			206	192	160	137	109	

- F : in-line ports with round flanges 1" 1/4 (DN40). Optional counterflanges " 1/2 GAS .

- V : (optional only for VLRX): in line ports 2" with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

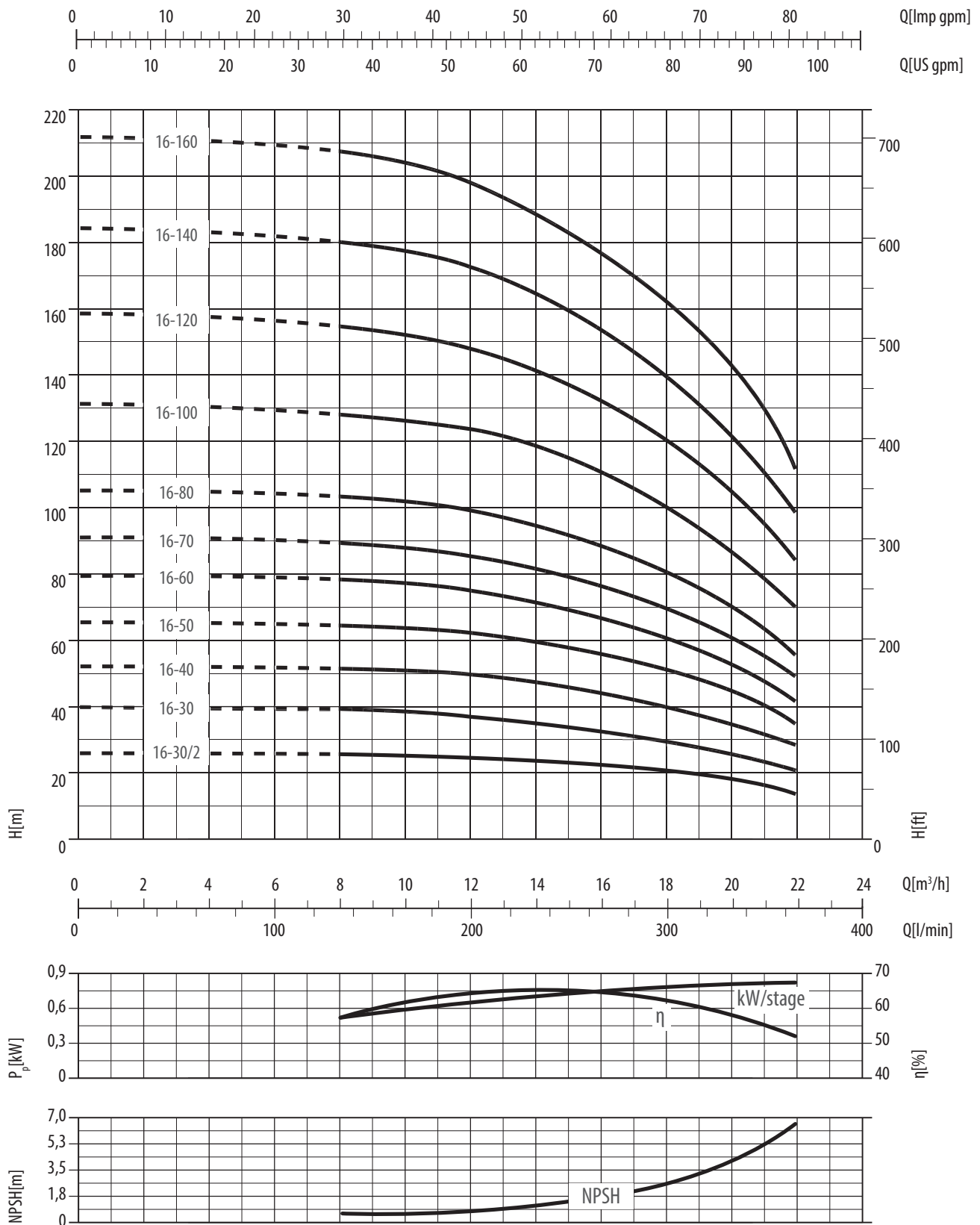
MODEL	Dimensions (mm)						Net weight (kg)
	A	B	L	D	H	D ₃	
VLRI/X 8 - 20 F	245	237	422	160	131	-	33
VLRI/X 8 - 30 F	375	237	612	160	131	-	35
VLRI/X 8 - 40 F	420	265	685	185	130	-	43
VLRI/X 8 - 50 F T	450	265	715	185	130	-	45
VLRI/X 8 - 60 F T	480	265	745	185	130	-	46
VLRI/X 8 - 80 F T	545	315	860	200	140	-	54
VLRI/X 8 - 100 F T	605	335	940	200	140	-	55
VLRI/X 8 - 120 F T	665	335	1000	200	140	-	59
VLRI/X 8 - 140 F T	745	385	1130	260	185	300	80
VLRI/X 8 - 160 F	805	385	1190	260	185	300	81
VLRI/X 8 - 180 F T	865	385	1250	260	185	300	85
VLRI/X 8 - 200 F T	925	385	1310	260	185	300	86



NOCCHI VLRI/X 16

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20° C

VLRI/X 16	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRI/X 16

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

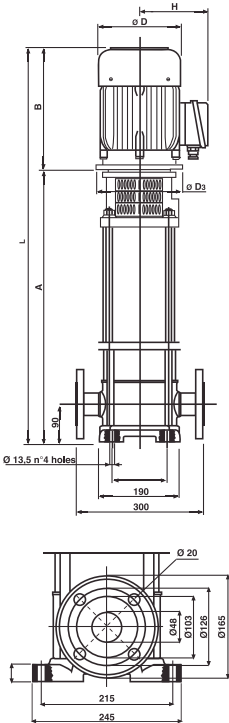
MODEL	Motor output		Volt	In (A)	Q	L/min	100	200	250	300	350
	HP	kW				m³/h	6	12	15	18	21
VLRI/X 16 - 30/2F T	3	2.2	3-230 - 400 V	8.5-4.9	m.c.a. / m.w.c.	26	25	23	20	16	
VLRI/X 16 - 30 F T	4	3	3-230 - 400 V	11.6-6.7		39	37	34	30	24	
VLRI/X 16 - 40 F T	5.5	4	3-230 - 400 V	14.3-8.3		52	49	46	40	32	
VLRI/X 16 - 50 F T	7.5	5.5	3-400 - 690 V	11.3-8.5		65	62	57	51	40	
VLRI/X 16 - 60 F T	7.5	5.5	3-400 - 690 V	11.3-8.5		78	74	69	61	47	
VLRI/X 16 - 70 F T	10	7.5	3-400 - 690 V	14.3-8.3		91	86	80	71	55	
VLRI/X 16 - 80 F T	10	7.5	3-400 - 690 V	14.3-8.3		104	98	92	81	63	
VLRI/X 16 - 100 F T	15	11	3-400 - 690 V	21-12.1		130	123	115	101	79	
VLRI/X 16 - 120 F T	15	11	3-400 - 690 V	21-12.1		156	148	137	121	95	
VLRI/X 16 - 140 F T	20	15	3-400 - 690 V	28-12.6		182	172	160	142	111	
VLRI/X 16 - 160 F T	20	15	3-400 - 690 V	28-12.6		208	197	183	162	126	

- F : in-line ports with round flanges 2" (DN50). Optional counterflanges 2" GAS .

- V : (optional only for VLRX): in line ports 2" with connectors for VICTAULIC joints.

OVERALL DIMENSIONS AND WEIGHTS

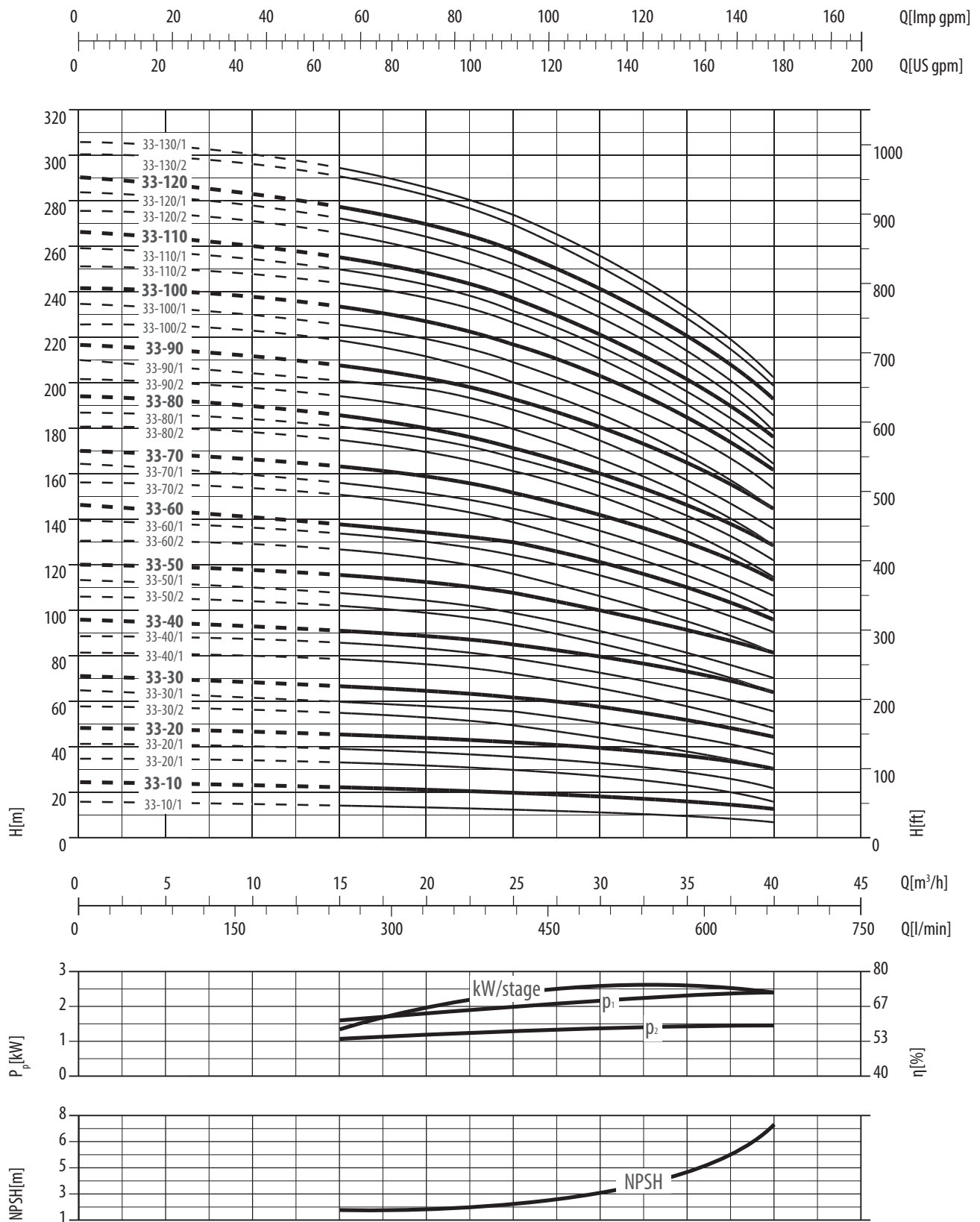
MODEL	Dimensions (mm)						Net weight (kg)
	A	B	L	D	H	D ₃	
VLRI/X 16 - 20 F T	460	265	725	185	130	140	52
VLRI/X 16 - 30 F T	464	315	779	200	140	250	56
VLRI/X 16 - 40 F T	509	335	844	200	140	250	59
VLRI/X 16 - 50 F T	575	385	960	260	185	300	82
VLRI/X 16 - 60 F T	620	385	1005	260	185	300	84
VLRI/X 16 - 70 F T	665	385	1050	260	185	300	90
VLRI/X 16 - 80 F T	710	385	1095	260	185	300	92
VLRI/X 16 - 100 F T	830	495	1325	260	185	350	136
VLRI/X 16 - 120 F T	920	495	1425	260	185	350	140
VLRI/X 16 - 140 F T	1010	495	1505	310	230	350	181
VLRI/X 16 - 160 F T	1100	495	1595	310	230	350	185



NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH valid for water with $\rho=1.0 \text{ kg/dm}^3$ at 20° C of condensity

VLRX 33	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	0	300	417	500	667
	HP	kW				m³/h	0	18	25	30	40
VLRX 33-10/1 T	3	2.2	3 ~ 230-400 V	7.6-4.4	m.c.a./m.w.c.	17	16	14	12	7	
VLRX 33-10 T	4	3	3 ~ 230-400 V	10.2-5.9		24	21	20	18	13	
VLRX 33-20/2 F T	5.5	4	3 ~ 230-400 V	13.5-7.8		35	33	30	27	17	
VLRX 33-20/1 F T	5.5	4	3 ~ 230-400 V	13.5-7.8		41	38	35	32	22	
VLRX 33-20 F T	7.5	5.5	3 ~ 400-690 V	10.2-5.9		48	44	41	39	30	
VLRX 33-30/2 F T	7.5	5.5	3 ~ 400-690 V	10.2-5.9		58	54	49	44	30	
VLRX 33-30/1 F T	10	7.5	3 ~ 400-690 V	13.8-7.9		65	60	56	51	37	
VLRX 33-30 F T	10	7.5	3 ~ 400-690 V	13.8-7.9		72	66	62	58	45	
VLRX 33-40/2 F T	10	7.5	3 ~ 400-690 V	13.8-7.9		82	77	72	66	47	
VLRX 33-40/1 F T	15	11	3 ~ 400-690 V	20.2-11.7		89	83	78	73	55	
VLRX 33-40 F T	15	11	3 ~ 400-690 V	20.2-11.7		96	90	85	80	63	
VLRX 33-50/2 F T	15	11	3 ~ 400-690 V	20.2-11.7		106	100	93	85	63	
VLRX 33-50-1 F T	15	11	3 ~ 400-690 V	20.2-11.7		113	105	99	92	70	
VLRX 33-50 F T	20	15	3 ~ 400-690 V	27-15.6		120	113	107	101	81	
VLRX 33-60/2 F T	20	15	3 ~ 400-690 V	27-15.6		131	125	116	108	81	
VLRX 33-60/1 F T	20	15	3 ~ 400-690 V	27-15.6		139	131	124	116	90	
VLRX 33-60 F T	20	15	3 ~ 400-690 V	27-15.6		146	137	129	121	96	
VLRX 33-70/2 F T	20	15	3 ~ 400-690 V	27-15.6		156	147	138	128	98	
VLRX 33-70/1 F T	25	18.5	3 ~ 400-690 V	33-19		163	154	145	136	106	
VLRX 33-70 F T	25	18.5	3 ~ 400-690 V	33-19		170	160	152	142	113	
VLRX 33-80/2 F T	25	18.5	3 ~ 400-690 V	33-19		181	171	161	150	115	
VLRX 33-80/1 F T	25	18.5	3 ~ 400-690 V	33-19		187	177	166	156	122	
VLRX 33-80 F T	30	22	3 ~ 400-690 V	39-22.6		194	182	172	161	128	
VLRX 33-90/2 F T	30	22	3 ~ 400-690 V	39-22.6		202	191	179	166	128	
VLRX 33-90/1 F T	30	22	3 ~ 400-690 V	39-22.6		210	198	186	174	136	
VLRX 33-90 F T	30	22	3 ~ 400-690 V	39-22.6		217	204	193	181	144	
VLRX 33-100/2 F T	30	22	3 ~ 400-690 V	39-22.6		226	213	200	186	144	
VLRX 33-100/1 F T	40	30	3 ~ 400-690 V	51.8-30		235	221	209	196	154	
VLRX 33-100 F T	40	30	3 ~ 400-690 V	51.8-30		242	228	216	203	162	
VLRX 33-110-2 F T	40	30	3 ~ 400-690 V	51.8-30		252	240	226	211	164	
VLRX 33-110/1 F T	40	30	3 ~ 400-690 V	51.8-30		259	245	232	217	171	
VLRX 33-110 F T	40	30	3 ~ 400-690 V	51.8-30		266	250	236	222	177	
VLRX 33-120/2 F T	40	30	3 ~ 400-690 V	51.8-30		276	262	246	229	178	
VLRX 33-120/1 F T	40	30	3 ~ 400-690 V	51.8-30		283	267	252	236	186	
VLRX 33-120 F T	40	30	3 ~ 400-690 V	51.8-30		290	272	258	242	193	
VLRX 33-130/2 F T	40	30	3 ~ 400-690 V	51.8-30		301	286	270	252	198	
VLRX 33-130/1 F T	40	30	3 ~ 400-690 V	51.8-30		307	290	274	256	202	

Flanges DN65 PN 16 up to VLRX 33-60/2; PN25 from VLRX 33-60 to 33-10; PN40 from VLRX 33-110/2 to 33-130/1. Counterflanges optional.

NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

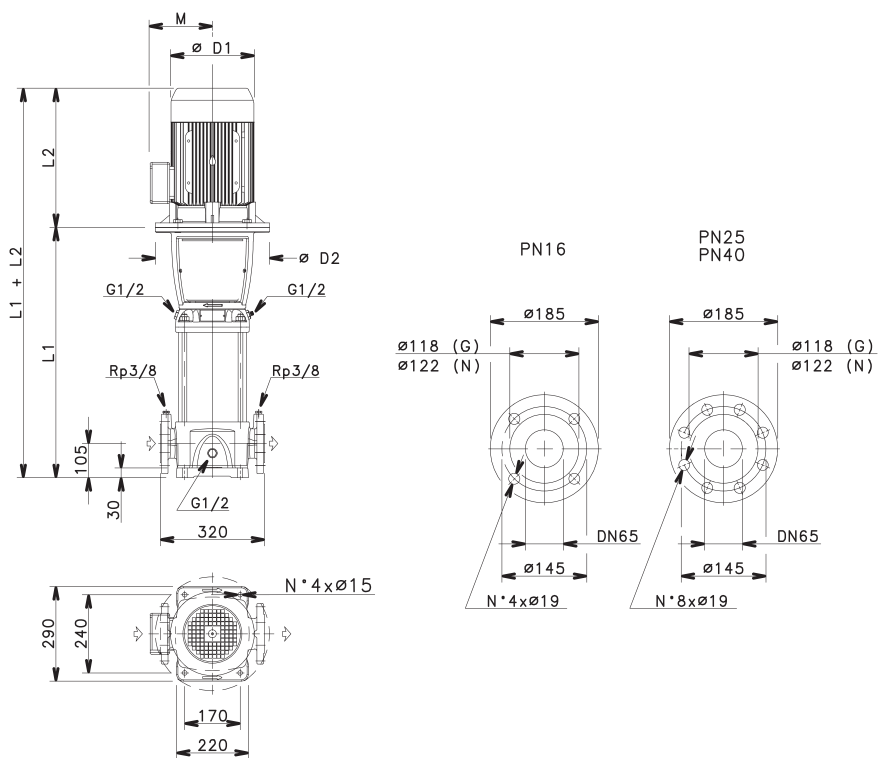
OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)						Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	PN	
VLRX 33-10/1 T	489	268	178	164	137	16	68
VLRX 33-10 T	489	268	178	164	137	16	71
VLRX 33-20/2 F T	564	319	197	164	154	16	82.5
VLRX 33-20/1 F T	564	319	197	164	154	16	82.5
VLRX 33-20 F T	584	375	214	300	168	16	98.5
VLRX 33-30/2 F T	659	375	214	300	168	16	103
VLRX 33-30/1 F T	659	367	256	300	191	16	121
VLRX 33-30 F T	659	367	256	300	191	16	121
VLRX 33-40/2 F T	734	367	256	300	191	16	125
VLRX 33-40/1 F T	769	428	256	350	191	16	143
VLRX 33-40 F T	769	428	256	350	191	16	143
VLRX 33-50/2 F T	844	428	256	350	191	16	147
VLRX 33-50-1 F T	844	428	256	350	191	16	147
VLRX 33-50 F T	844	494	313	350	240	16	179
VLRX 33-60/2 F T	919	494	313	350	240	16	183
VLRX 33-60/1 F T	919	494	313	350	240	25	183
VLRX 33-60 F T	919	494	313	350	240	25	183
VLRX 33-70/2 F T	994	494	313	350	240	25	186
VLRX 33-70/1 F T	994	494	313	350	240	25	195
VLRX 33-70 F T	994	494	313	350	240	25	195
VLRX 33-80/2 F T	1069	494	313	350	240	25	199
VLRX 33-80/1 F T	1069	494	313	350	240	25	199
VLRX 33-80 F T	1069	494	313	350	240	25	210
VLRX 33-90/2 F T	1144	494	313	350	240	25	214
VLRX 33-90/1 F T	1144	494	313	350	240	25	214
VLRX 33-90 F T	1144	494	313	350	240	25	214
VLRX 33-100/2 F T	1219	494	313	350	240	25	218
VLRX 33-100/1 F T	1219	657	402	400	317	25	319
VLRX 33-100 F T	1219	657	402	400	317	25	319
VLRX 33-110-2 F T	1294	657	402	400	317	40	333
VLRX 33-110/1 F T	1294	657	402	400	317	40	333
VLRX 33-110 F T	1294	657	402	400	317	40	333
VLRX 33-120/2 F T	1369	657	402	400	317	40	337
VLRX 33-120/1 F T	1369	657	402	400	317	40	337
VLRX 33-120 F T	1369	657	402	400	317	40	337
VLRX 33-130/2 F T	1444	657	402	400	317	40	342
VLRX 33-130/1 F T	1444	657	402	400	317	40	342

NOCCHI VLRX 33

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

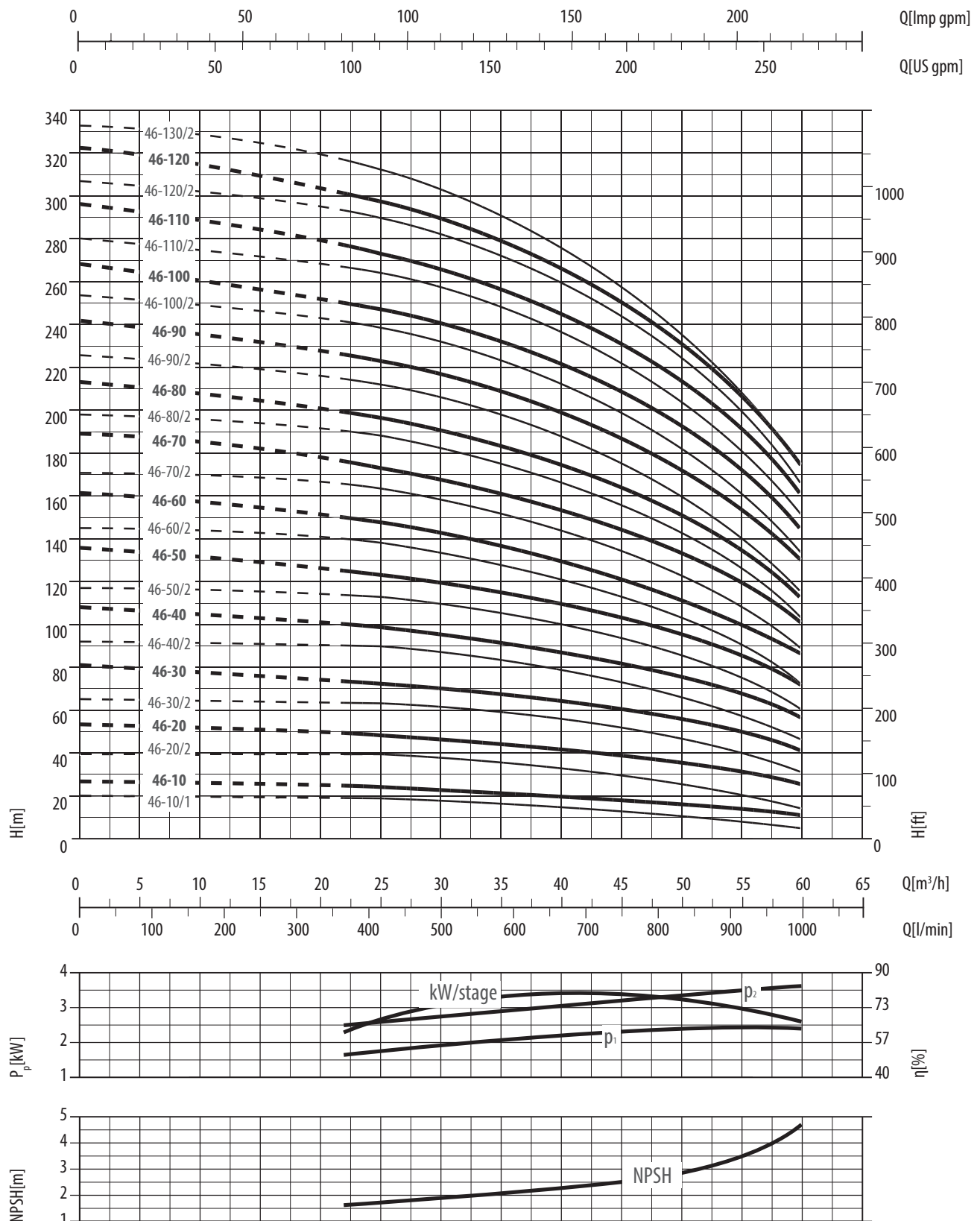
OVERALL DIMENSIONS AND WEIGHTS



NOCCHI VLRX 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRX 46	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	367	417	500	583	667	750	900	1000
	HP	kW				m³/h	22	25	30	35	40	45	54	60
VLRX 46-10/1	4	3	3-230 - 400 V	5	m.c.a. / m.w.c.	19	19	18	17	15	13	9	5	
VLRX 46-10	5.5	4	3-230 - 400 V	8.6		24	24	23	21	20	18	14	11	
VLRX 46-20/2	7.5	5.5	3-400 - 690 V	10.9		40	39	38	36	33	29	21	14	
VLRX 46-20	10	7.5	3-400 - 690 V	14.7		49	48	46	44	42	39	31	25	
VLRX 46-30/2	15	11	3-400 - 690 V	21		65	64	62	60	56	52	40	31	
VLRX 46-30	15	11	3-400 - 690 V	21		74	73	71	68	65	60	50	41	
VLRX 46-40/2	20	15	3-400 - 690 V	29		91	90	87	83	79	73	58	46	
VLRX 46-40	20	15	3-400 - 690 V	29		100	98	96	92	87	82	68	56	
VLRX 46-50/2	25	18.5	3-400 - 690 V	35		115	113	110	106	100	93	75	60	
VLRX 46-50	25	18.5	3-400 - 690 V	35		125	123	120	116	110	103	86	72	
VLRX 46-60/2	30	22	3-400 - 690 V	42		139	138	134	129	122	113	92	73	
VLRX 46-60	30	22	3-400 - 690 V	42		150	148	144	139	132	124	104	86	
VLRX 46-70/2	40	30	3-400 - 690 V	55		165	163	158	152	144	134	110	89	
VLRX 46-70	40	30	3-400 - 690 V	55		176	173	168	162	155	145	122	101	
VLRX 46-80/2	40	30	3-400 - 690 V	55		190	188	182	176	166	155	127	103	
VLRX 46-80	40	30	3-400 - 690 V	55		199	196	191	184	175	164	137	113	
VLRX 46-90/2	40	30	3-400 - 690 V	55		215	212	206	198	187	174	143	116	
VLRX 46-90	50	37	3-400 - 690 V	65		225	222	217	209	199	187	157	130	
VLRX 46-100/2	50	37	3-400 - 690 V	65		241	238	232	223	212	198	164	134	
VLRX 46-100	50	37	3-400 - 690 V	65		250	247	241	232	221	208	174	145	
VLRX 46-110/2	60	45	3-400 - 690 V	80		267	264	258	249	237	222	184	151	
VLRX 46-110	60	45	3-400 - 690 V	80		276	273	266	257	245	230	194	161	
VLRX 46-120/2	60	45	3-400 - 690 V	80		293	289	282	272	259	243	202	166	
VLRX 46-120	60	45	3-400 - 690 V	80		301	297	290	280	267	250	210	175	
VLRX 46-130/2	60	45	3-400 - 690 V	80		316	312	304	292	277	259	214	175	

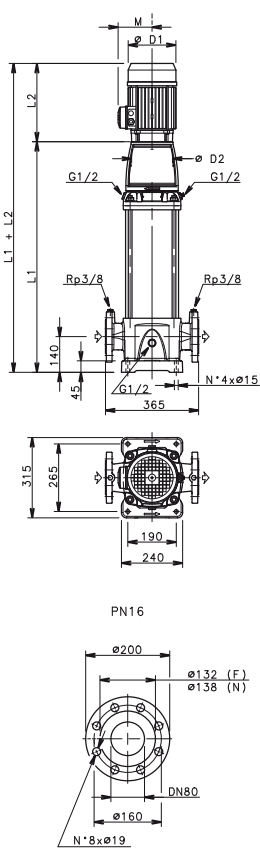
Flanges DN80 PN16 (VLR46-10/1, VLR 46-50); PN25 from VLR 46-60/2 to 46-90; PN 40 from VLR 46-100 to 46-130/2 oval flanges. Counterflanges optional.

NOCCHI VLRX 46

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

OVERALL DIMENSIONS AND WEIGHTS

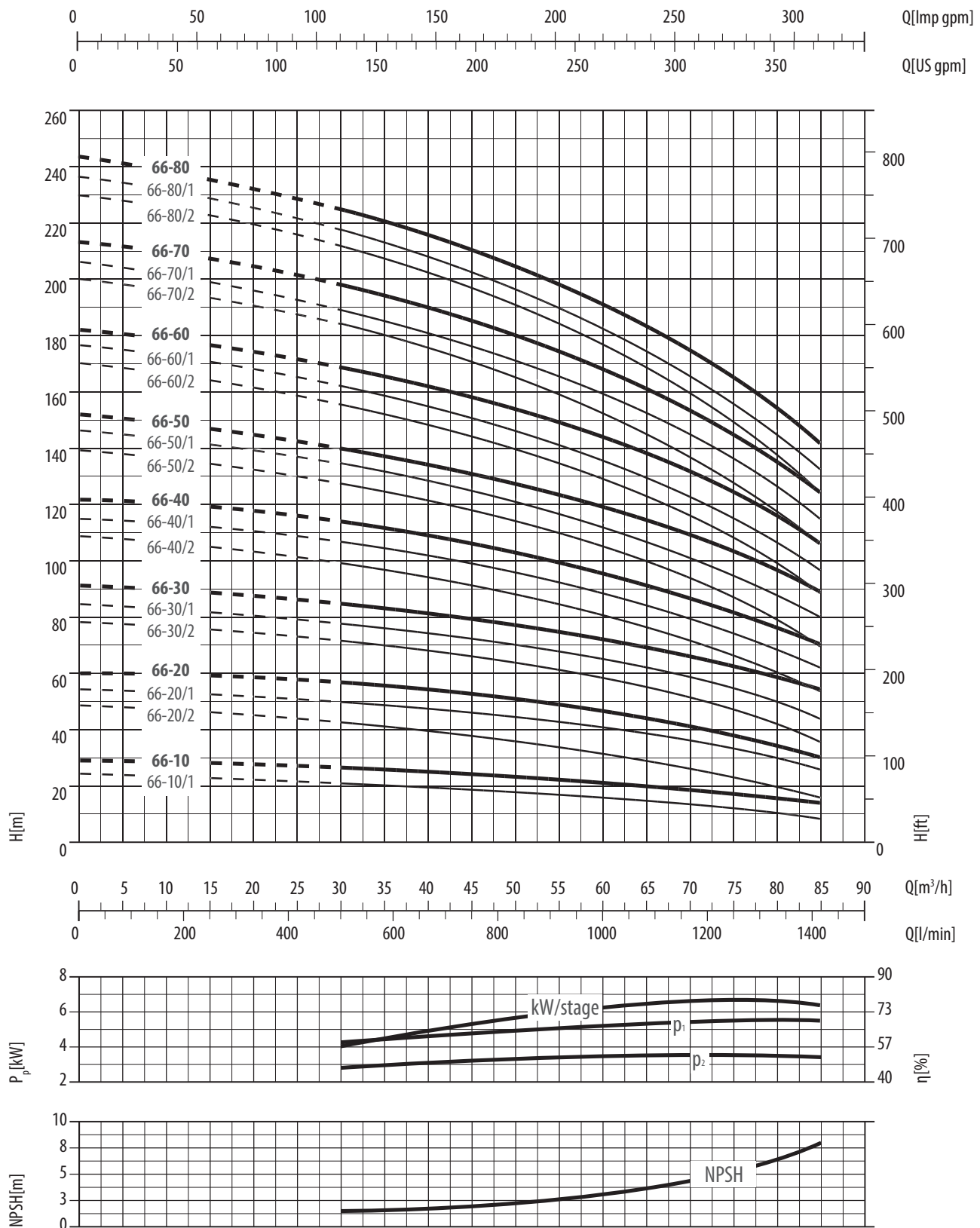
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLRX 46-10/1	529	298	174	164	134	79
VLRX 46-10	529	319	197	164	154	84,5
VLRX 46-20/2	624	375	214	300	168	104
VLRX 46-20	624	367	356	300	191	122
VLRX 46-30/2	734	428	256	350	191	144
VLRX 46-30	734	428	256	350	191	144
VLRX 46-40/2	809	494	313	350	240	180
VLRX 46-40	809	494	313	350	240	180
VLRX 46-50/2	884	494	313	350	240	193
VLRX 46-50	884	494	313	350	240	193
VLRX 46-60/2	959	494	313	350	240	208
VLRX 46-60	959	494	313	350	240	208
VLRX 46-70/2	1034	613	354	400	278	230
VLRX 46-70	1034	613	354	400	278	230
VLRX 46-80/2	1109	613	354	400	278	234
VLRX 46-80	1109	613	354	400	278	234
VLRX 46-90/2	1184	613	354	400	278	238
VLRX 46-90	1184	613	354	400	278	238
VLRX 46-100/2	1259	613	354	400	278	248
VLRX 46-100	1259	613	354	400	278	257
VLRX 46-110/2	1334	710	411	450	298	257
VLRX 46-110	1334	710	411	450	298	345
VLRX 46-120/2	1409	710	411	450	298	345
VLRX 46-120	1409	710	411	450	298	350
VLRX 46-130/2	1484	710	411	450	298	354



NOCCHI VLRX 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH valid for water with $\rho=1.0 \text{ kg/dm}^3$ at 20° C of condensity

VLRX 66	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	500	600	700	750	900	1000	1200	1300	1417
	HP	kW				m³/h	30	36	42	45	54	60	72	78	85
VLRX 66-10/1	5.5	4	3-230 - 400 V	8.6	m.c.a. / m.w.c.	21	21	20	19	18	17	13	11	8	
VLRX 66-10	7.5	5.5	3-400 - 690 V	10.9		26	25	24	23	22	21	18	16	14	
VLRX 66-20/2	10	7.5	3-400 - 690 V	14.7		43	41	40	39	36	33	26	22	16	
VLRX 66-20/1	15	11	3-400 - 690 V	21		50	48	47	46	43	41	35	31	26	
VLRX 66-20	15	11	3-400 - 690 V	21		56	54	53	52	49	47	42	39	35	
VLRX 66-30/2	20	15	3-400 - 690 V	29		72	70	67	66	62	58	49	43	35	
VLRX 66-30/1	20	15	3-400 - 690 V	29		78	76	74	72	68	65	56	51	44	
VLRX 66-30	25	18.5	3-400 - 690 V	35		85	83	81	79	75	72	64	60	54	
VLRX 66-40/2	25	18.5	3-400 - 690 V	35		100	97	94	92	86	82	70	63	53	
VLRX 66-40/1	30	22	3-400 - 690 V	42		106	103	100	99	93	89	78	71	62	
VLRX 66-40	30	22	3-400 - 690 V	42		113	110	107	105	100	96	86	79	71	
VLRX 66-50/2	40	30	3-400 - 690 V	55		128	124	120	118	111	106	92	83	70	
VLRX 66-50/1	40	30	3-400 - 690 V	55		134	131	127	125	118	112	99	91	80	
VLRX 66-50	40	30	3-400 - 690 V	55		140	137	133	131	125	119	107	99	89	
VLRX 66-60/2	40	30	3-400 - 690 V	55		156	152	147	144	136	129	113	103	88	
VLRX 66-60/1	40	30	3-400 - 690 V	55		162	158	153	151	143	136	121	111	97	
VLRX 66-60	50	37	3-400 - 690 V	65		169	164	160	158	150	143	128	119	106	
VLRX 66-70/2	50	37	3-400 - 690 V	65		184	179	174	171	161	153	134	122	106	
VLRX 66-70/1	50	37	3-400 - 690 V	65		190	185	180	177	168	160	142	131	115	
VLRX 66-70	60	45	3-400 - 690 V	80		197	192	187	184	174	167	150	139	124	
VLRX 66-80/2	60	45	3-400 - 690 V	80		212	206	200	197	186	177	156	142	124	
VLRX 66-80/1	60	45	3-400 - 690 V	80		218	213	207	204	193	184	163	150	133	
VLRX 66-80	60	45	3-400 - 690 V	80		225	219	213	210	199	191	171	159	142	

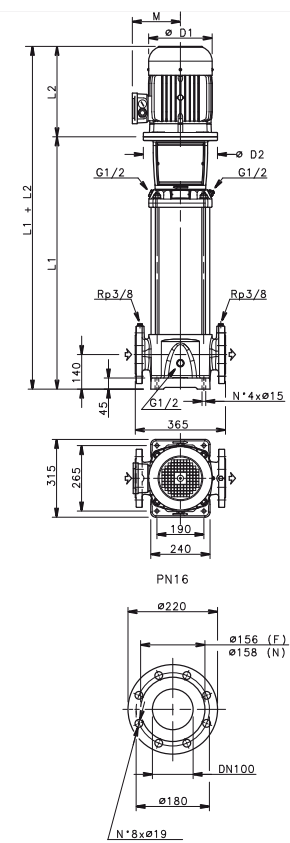
Flanges DN 100 PN 16 from VLR 66-10/1 to 66-80. PN 25 from VLR 66-60 to 66-80 oval flanges. Counterflanges optional.

NOCCHI VLRX 66

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

OVERALL DIMENSIONS AND WEIGHTS

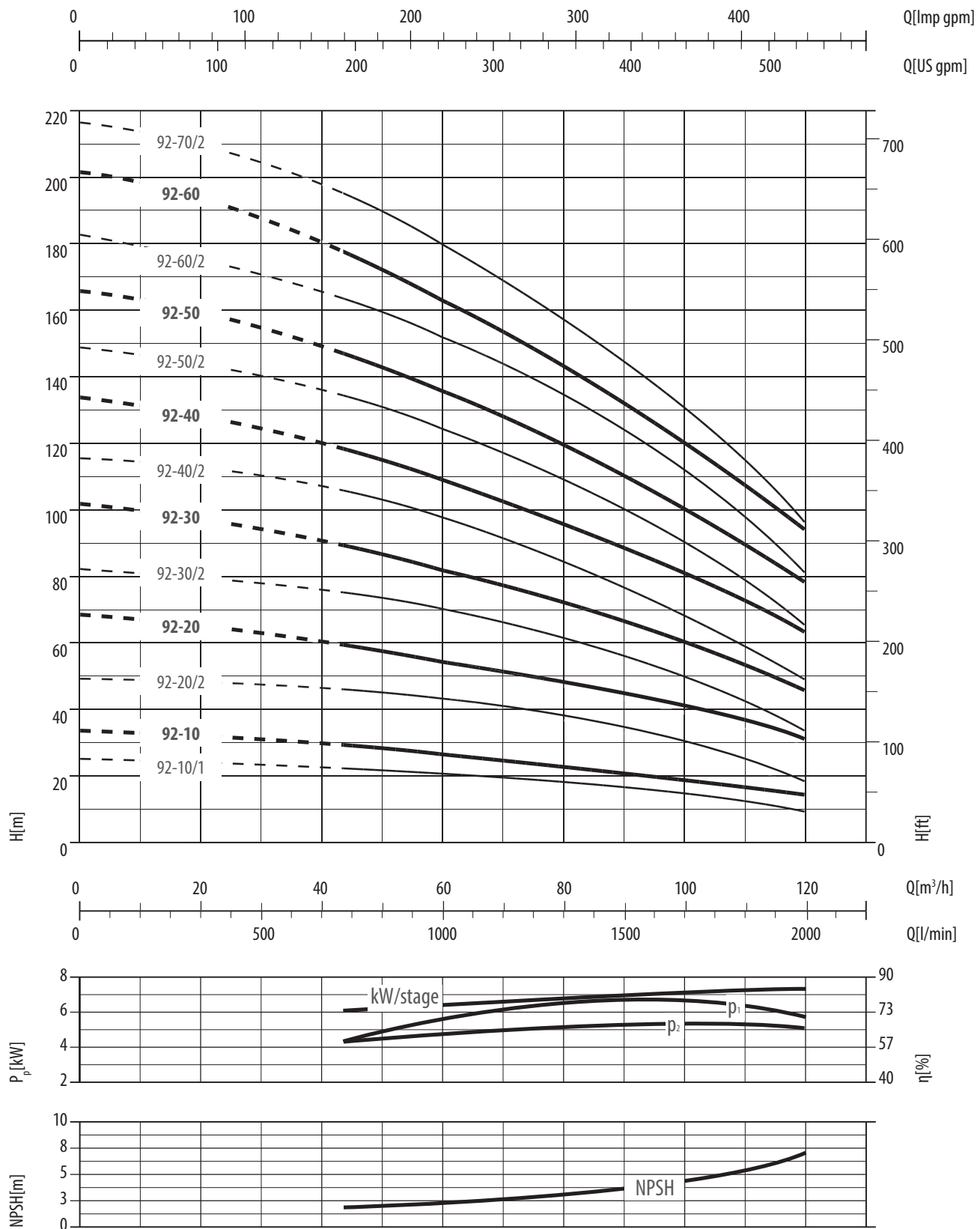
MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLRX 66-10/1	554	319	197	164	154	92.5
VLRX 66-10	574	375	214	300	168	110
VLRX 66-20/2	664	367	256	300	191	133
VLRX 66-20/1	699	428	256	300	191	151
VLRX 66-20	699	428	256	350	191	151
VLRX 66-30/2	789	494	313	350	240	188
VLRX 66-30/1	789	494	313	350	240	188
VLRX 66-30	789	494	313	350	240	197
VLRX 66-40/2	879	494	313	350	240	203
VLRX 66-40/1	879	494	313	350	240	214
VLRX 66-40	879	494	313	350	240	214
VLRX 66-50/2	969	613	354	400	278	237
VLRX 66-50/1	969	613	354	400	278	237
VLRX 66-50	969	613	354	400	278	245
VLRX 66-60/2	1059	613	354	400	278	245
VLRX 66-60/1	1059	613	354	400	278	255
VLRX 66-60	1059	613	354	400	278	255
VLRX 66-70/2	1149	613	354	400	278	261
VLRX 66-70/1	1149	613	354	400	278	261
VLRX 66-70	1149	710	411	450	298	341
VLRX 66-80/2	1239	710	411	450	298	346
VLRX 66-80/1	1239	710	411	450	298	346
VLRX 66-80	1239	710	411	450	298	346



NOCCHI VLRX 92

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HYDRAULIC PERFORMANCE



Head and NPSH values valid with water density $\rho = 1.0 \text{ Kg / dm}^3$ at 20°C

VLRX 92	2900 rpm	50 Hz	ISO 9906 - Annex A
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MEI ≥ 0.1 - MEI reference ≥ 0.70 - The reference efficiency information is available on the website: www.europump.org/efficiencycharts

NOCCHI VLRX 92

VERTICAL MULTI-CELL CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

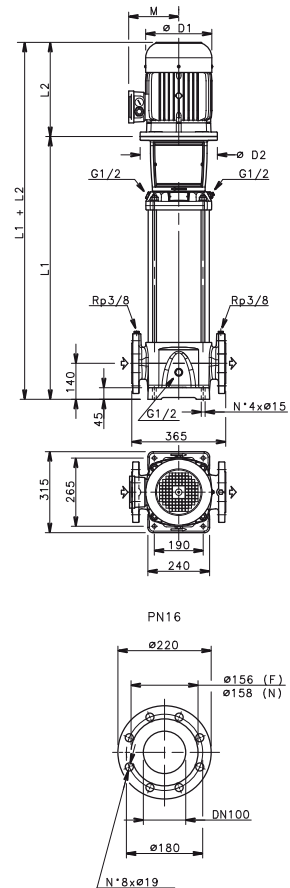
PERFORMANCE TABLE

MODEL	Motor output		Volt	In (A)	Q	L/min	750	900	1000	1200	1300	1417	1600	1800	2000
	HP	kW				m³/h	45	54	60	72	78	85	96	108	120
VLRX 92-10/1	7.5	5.5	3~400 - 690 V	10.9	m.c.a. / m.w.c.		22	22	21	19	19	17	15	12	8
VLRX 92-10	10	7.5	3~400 - 690 V	14.7			29	27	26	24	23	22	20	18	14
VLRX 92-20/2	15	11	3~400 - 690 V	21			45	44	43	40	38	36	31	25	17
VLRX 92-20	20	15	3~400 - 690 V	29			58	55	53	50	48	45	41	36	30
VLRX 92-30/2	25	18.5	3~400 - 690 V	35			74	72	70	65	62	59	52	44	33
VLRX 92-30	30	22	3~400 - 690 V	42			88	84	81	76	73	69	63	56	46
VLRX 92-40/2	40	30	3~400 - 690 V	55			104	100	97	90	87	82	74	63	49
VLRX 92-40	40	30	3~400 - 690 V	55			117	112	108	101	97	92	85	75	63
VLRX 92-50/2	50	37	3~400 - 690 V	65			122	128	124	116	111	105	95	81	65
VLRX 92-50	50	37	3~400 - 690 V	65			146	140	135	126	121	115	106	94	78
VLRX 92-60/2	60	45	3~400 - 690 V	80			163	156	152	141	135	129	117	101	81
VLRX 92-60	60	45	3~400 - 690 V	80			176	168	163	151	146	139	127	113	94
VLRX 92-70/2	60	45	3~400 - 690 V	80			192	184	179	167	160	152	138	120	97

Flanges DN100 PN16 from VLRX 92-10/2 to 92-40; PN25 from VLRX 92-50/2 to 92-70/2 oval flanges. Counterflanges optional.

OVERALL DIMENSIONS AND WEIGHTS

MODEL	Dimensions (mm)					Net weight (kg)
	L ₁	L ₂	D ₁	D ₂	M	
VLRX 92-10/1	574	375	214	300	168	109
VLRX 92-10	574	367	256	300	191	127
VLRX 92-20/2	699	428	256	350	191	150
VLRX 92-20	699	494	313	350	240	182
VLRX 92-30/2	789	494	313	350	240	197
VLRX 92-30	789	494	313	350	240	208
VLRX 92-40/2	879	613	354	400	278	232
VLRX 92-40	879	613	354	400	278	232
VLRX 92-50/2	969	613	354	400	278	250
VLRX 92-50	969	613	354	400	278	250
VLRX 92-60/2	1059	710	411	450	298	335
VLRX 92-60	1059	710	411	450	298	335
VLRX 92-70/2	1149	710	411	450	298	340



NOCCHI VLR/VLRI/VLRX

ACCESSORIES

CIRCULAR FLANGES

CODE	DESCRIPTION	Material	Ext D	inter. S	N° Holes	D Holes F	Hole B		PN	STANDARD
							Thread- ed	To weld		
D3086KKK	Pair of circular flanges complete with bolts and gaskets	STEEL	140	100	4	18	1 1/4"	-	16	UNI EN 1092-1
B7098KKK			150	110	4	18	-	DN40	16	UNI EN 1092-1
B7097KKK			150	110	4	18	1 1/2"	-	16	UNI EN 1092-1
ZB901890			165	125	4	18	-	DN50	16	UNI EN 1092-1
B7050KKK			165	125	4	18	2"	-	16	UNI EN 1092-1
B7051KKK			165	125	4	18	2 1/2"	-	16	N/A
ZB901920			220	180	8	18	-	DN100	16	UNI EN 1092-1
B7698KKK			185	145	8	18	-	DN65	25	UNI EN 1092-1
ZB902350			235	190	8	22	-	DN100	25	UNI EN 1092-1
ZA008460		STAINLESS STEEL AISI 316	140	99.2	4	20	1 1/4"	DN32	16	N/A
ZB902120			150	110	4	20	1 1/2"	DN40	16	N/A
ZB902130			165	126	4	20	2"	DN50	16	N/A

OVAL FLANGES

CODE	DESCRIPTION	Material	ext. D	ext. A	inter. S	Ø Holes F	Hole B threaded
ZC001270	Single oval flange	CAST IRON	95	68	65	11	1"
ZC001290		CAST IRON	95	68	65	11	1 1/4"
ZC001280		CAST IRON	128	75	100	14	1 1/2"
ZA008560	Pair of oval flanges complete with bolts 1 1/4" and gaskets	STAINLESS STEEL cast AISI 316	95	68	65	11	1 1/4"

VICTAULIC JOINTS

CODE	DESCRIPTION	Material	Dimensions			CONNECTOR
			X	Y	Z	
ZA009020	VICTAULIC joint	CAST IRON	68	117	45	1" 1/4 42.2
ZA009030			87	133	48	2" 60.3

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ACCESSORIES

GUIDE TO SELECTION

Port dimensions	1¼"	1½"	DN40	2"	2½"	DN 50	DN 65	DN 100	DN 100	DN 32	DN 40	DN 50	1"	1¼"	1½"	1½"
Notes	PN 16	PN 16	PN 16	PN 16	-	PN 25	PN 25	PN 16	PN 25	PN 16	PN 16	PN 16	CAST IRON	CAST IRON	CAST IRON	CAST IRON
CODE → TYPE ↓	D3086KKK	B7097KKK	B7098KKK	B7050KKK	B7051KKK	ZB901890	B7698KKK	ZB901920	ZB902350	ZA008460	ZB902120	ZB902130	* ZC001270	* ZC001290	* ZC001280	ZA008560
VLR 2B FLANGE A													●			
VLR 2B FLANGE F	○															
VLR 4 FLANGE A														●		
VLR 4 FLANGE F	○															
VLR 8 FLANGE A															●	
VLR 8 FLANGE F		○	○													
VLR 16 FLANGE F				○	○	○										
VLR 32 FLANGE F							○									
VLR 66 FLANGE F → 66-50								○								
VLR 66 FLANGE F 66-60 →									○							
VLR 92 FLANGE F → 92-40																
VLR 92 FLANGE F 92-50 →																

* These codes refer to a single flange without screws and without gaskets

● Component assembled as standard ○ Component optional

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