

SURFACE PUMPS

VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

The VLR 4s are vertical multistage centrifugal pumps with "in line" suction and delivery points directly connected to an electric motor. They are not self-priming.

Design Features

- Impellers, diffusers, intermediate chambers and outer liner in AISI 304 stainless steel, shaft in AISI 431 stainless steel
- Base and head in GG20 cast iron
- EPDM rubber O ring
- Mechanical seal with tungsten carbide primary and secondary ring, EPDM O-ring
- All the version "A" VLR are complete with 1 1/4" oval gas counterflanges
- For the version "F" VLR, round DN32 counterflanges on request

Motor

- Asynchronous electric motor with enclosed stator and external ventilation
- Main dimensions are in accordance with the provisions of DIN and IEC standards
- Class F insulation
- Level of protection IP 55
- Maximum environmental temperature 40 °C
- Speed of rotation 2900 rpm

Usage Limitations

- Liquid temperature from - 15°C to +120°C
- Maximum operating pressure:
 - Oval flanges : 16 bar
 - DIN flanges : 25 bar (maximum pumped liquid temperature 40° C)
 - : 21 bar (maximum pumped liquid temperature 120° C)
- Maximum inlet pressure:
 - VLR 4- 20 = 6 bar
 - VLR 4- 30 - VLR 4-100 = 10 bar
 - VLR 4-120 - VLR 4-260 = 15 bar
- Minimum suction head:
 - Please refer to NPSH plus a safety margin of 0.5 m

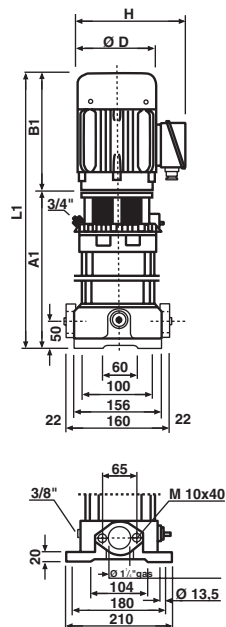
Applications

Water supply - Pressure increase systems - Irrigation - High pressure washes - Firefighting systems - Boiler supply - Liquid transfer

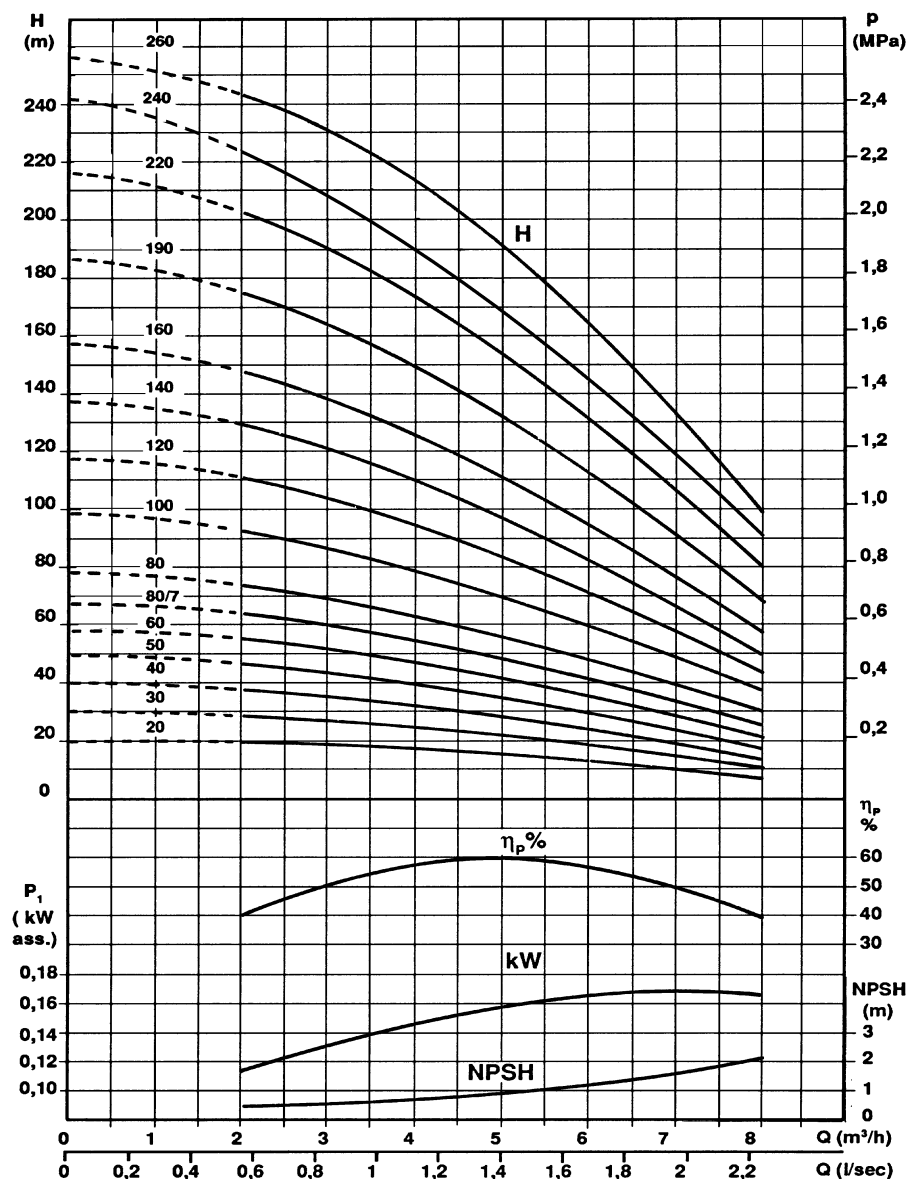
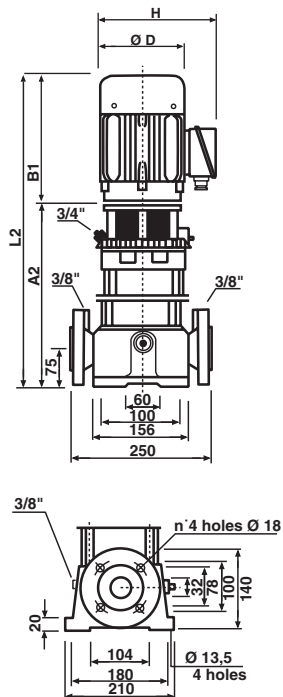


CODE	MODEL	Motor Power		VOLTAGE	Amp.	μF.	Q	L/1'	40	60	80	100	120					PRICE
		HP	kW															
E3502102 E3501002	VLR 4 - 20 A M VLR 4 - 20 A T	0,5	0,37	1 ~ 230 V 3 ~ 230 ÷ 400 V	2,7 1,73-1	14	Discharge head in meters	m³/h	19	17	15	13	9					
E3502103 E3501003	VLR 4 - 30 A M VLR 4 - 30 A T	0,75	0,55	1 ~ 230 V 3 ~ 230 ÷ 400 V	4 2,5-1,45	16			28	25	22	19	13					
E3502104 E3501004	VLR 4 - 40 A M VLR 4 - 40 A T	1	0,75	1 ~ 230 V 3 ~ 230 ÷ 400 V	5,2 3,3-1,9	25			36	33	29	25	18					
E3502105 E3501005	VLR 4 - 50 A M VLR 4 - 50 A T	1,5	1,1	1 ~ 230 V 3 ~ 230 ÷ 400 V	8 4,3-2,5	35			44	42	37	31	23					
E3502106 E3501006	VLR 4 - 60 A M VLR 4 - 60 A T	1,5	1,1	1 ~ 230 V 3 ~ 230 ÷ 400 V	8 4,3-2,5	35			53	50	44	38	27					
E3502107 E3501007	VLR 4 - 80/7 A M VLR 4 - 80/7 A T	2	1,5	1 ~ 230 V 3 ~ 230 ÷ 400 V	12 5,9-3,4	45			61	58	51	44	32					
E3502108 E3501008	VLR 4 - 80 A M VLR 4 - 80 A T	2	1,5	1 ~ 230 V 3 ~ 230 ÷ 400 V	12 5,9-3,4	45			71	67	59	50	37					
E3501010	VLR 4 - 100 A T	3	2,2	3 ~ 230 ÷ 400 V	8,3-4,8				90	82	72	61	46					
E3501012	VLR 4 - 120 A T	3	2,2	3 ~ 230 ÷ 400 V	8,3-4,8				107	99	87	73	54					
E3501014	VLR 4 - 140 A T	4	3	3 ~ 230 ÷ 400 V	10,9-6,3				124	116	102	85	63					
E3501016	VLR 4 - 160 A T	4	3	3 ~ 230 ÷ 400 V	10,9-6,3				142	132	116	97	72					
E3531019 E3531119	VLR 4 - 190 F T VLR 4 - 190 F T	5,5	4	3 ~ 230 ÷ 400 V 3 ~ 400 ÷ 690 V	13,8-8				170	157	138	114	86					
E3531022 E3531122	VLR 4 - 220 F T VLR 4 - 220 F T	5,5	4	3 ~ 230 ÷ 400 V 3 ~ 400 ÷ 690 V	13,8-8				196	181	160	131	101					
E3531024 E3531124	VLR 4 - 240 F T VLR 4 - 240 F T	7,5	5,5	3 ~ 230 ÷ 400 V 3 ~ 400 ÷ 690 V	12,4-21,5				213	198	175	143	110					
E3531026 E3531126	VLR 4 - 260 F T VLR 4 - 260 F T	7,5	5,5	3 ~ 230 ÷ 400 V 3 ~ 400 ÷ 690 V	12,4-21,5				230	213	189	156	120					

1 Version with oval flanges VLR 4-20 - VLR 4-160



2 Version with round flanges PN10 DIN 2534/ISO 7005-2



- Power (Kw) and efficiency % refer to one stage

Model	Dimensions (mm)							Net weight (kg)	
	A ₁ ①	B ₁	L ₁ ①	A ₂ ②	L ₂ ②	D	H		
VLR 4 - 20	238	213	451	-	-	142	109	20	-
VLR 4 - 30	265	213	478	-	-	142	109	21	-
VLR 4 - 40	296	237	533	-	-	160	131	23	-
VLR 4 - 50	323	237	560	-	-	160	131	25	-
VLR 4 - 60	350	237	587	-	-	160	131	26	-
VLR 4 - 80/7	423	265	688	-	-	185	130	33	-
VLR 4 - 80	423	265	688	-	-	185	130	33	-
VLR 4 - 100	477	265	742	-	-	185	130	36	-
VLR 4 - 120	531	265	796	-	-	185	130	37	-
VLR 4 - 140	589	315	904	-	-	200	140	41	-
VLR 4 - 160	643	315	958	-	-	200	140	43	-
VLR 4 - 190	-	335	-	749	1084	200	140	-	61
VLR 4 - 220	-	335	-	830	1165	200	140	-	63
VLR 4 - 240	-	385	-	911	1298	260	185	-	87
VLR 4 - 260	-	385	-	965	1350	260	185	-	89