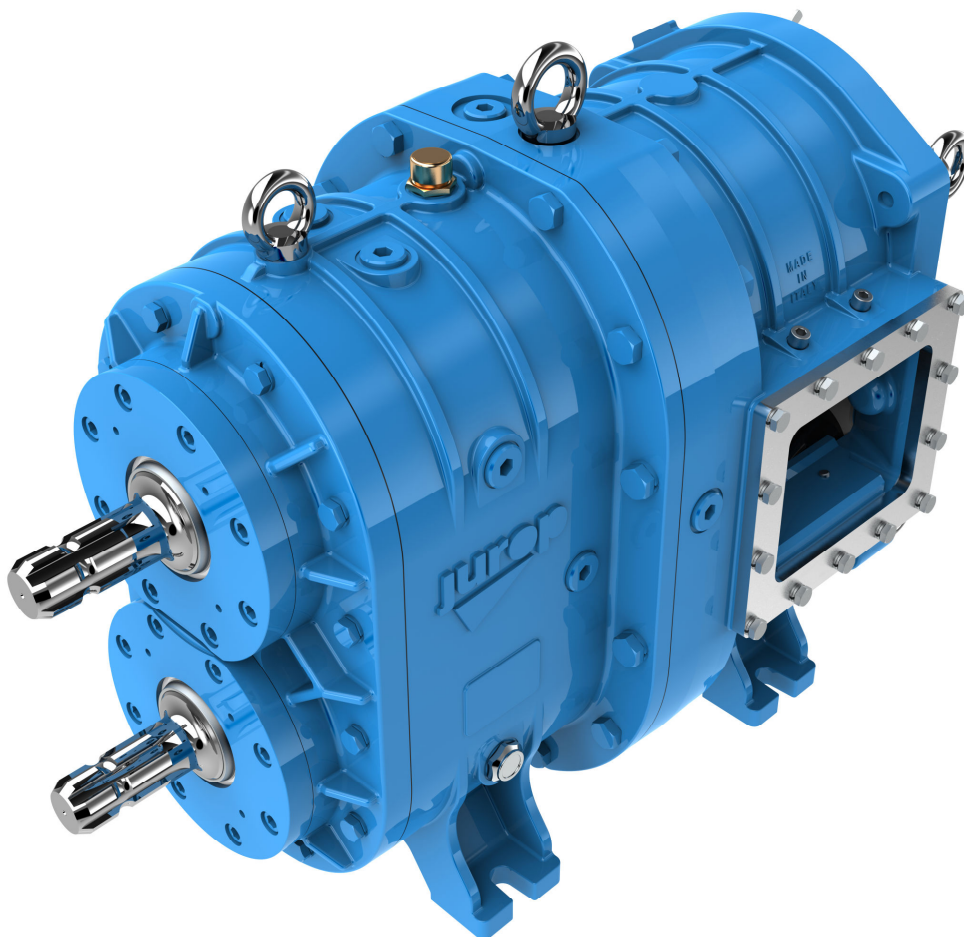
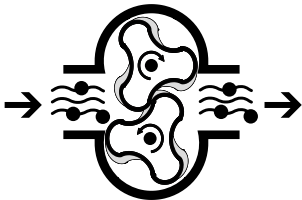


EN

VL 70 - 100 - 140



PUMPS

Positive displacement rotary  
lobe pumps



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =

**CHARACTERISTICS**

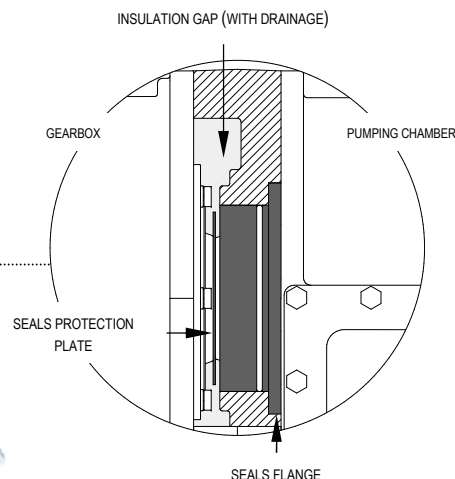
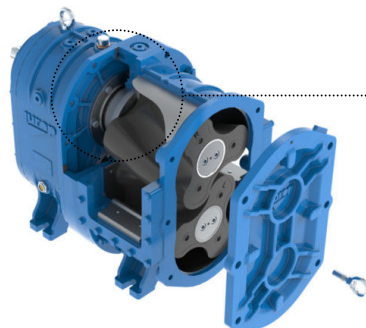
VL Volumetric Lobe pump. Positive displacement rotary lobe selfpriming pump, without valves. Flow rate varies proportionally to the rotation speed.

Two opposite rotating lobes transfer, from the inlet to the outlet, the pumped media drawn into pockets that are formed between the lobes and the pump housing.

Helical lobes may be available in NBR and FKM.

The flow can be reversed by inverting the rotation direction.

VL pumps are suitable for viscous, pasty (liquid manure, slurry, oil, paint, pastes, mud, storm water, sludges) medias. Suitable for pumping liquids containing solid parts up to 30 mm. Self-priming down to 5 m depth (water).

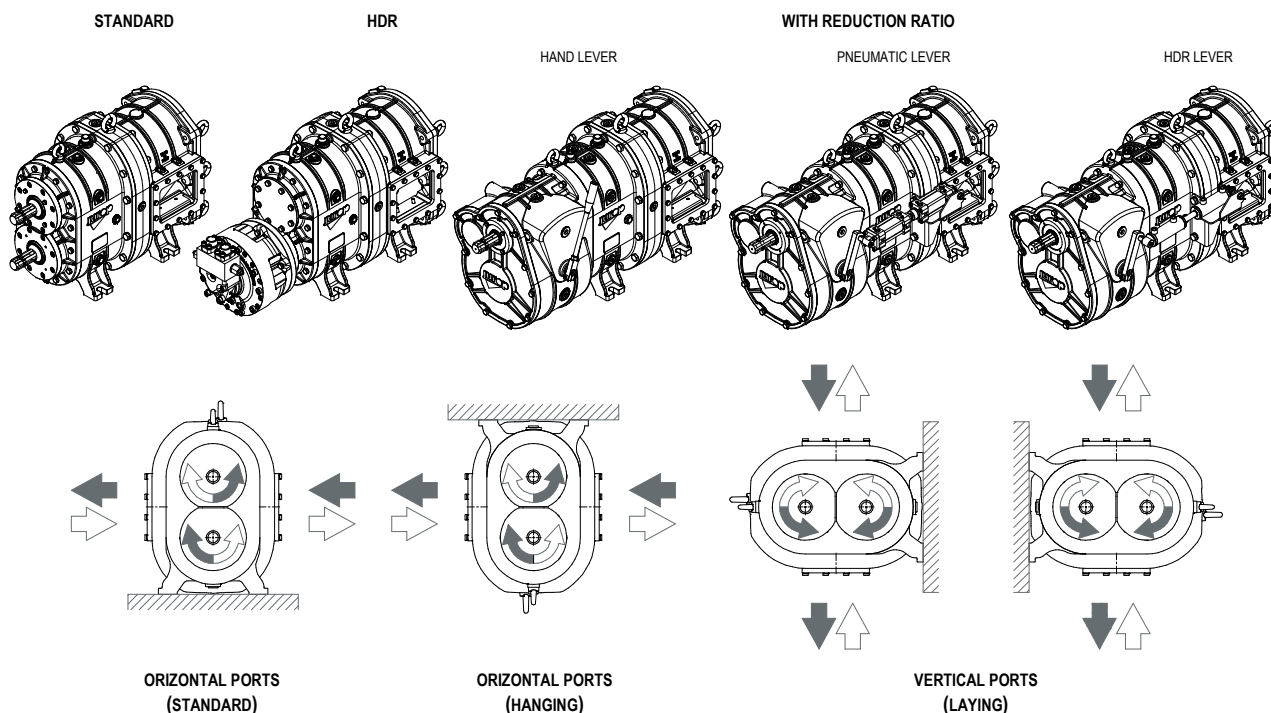


EASY ACCESS TO LOBES FOR A QUICK MAINTENANCE

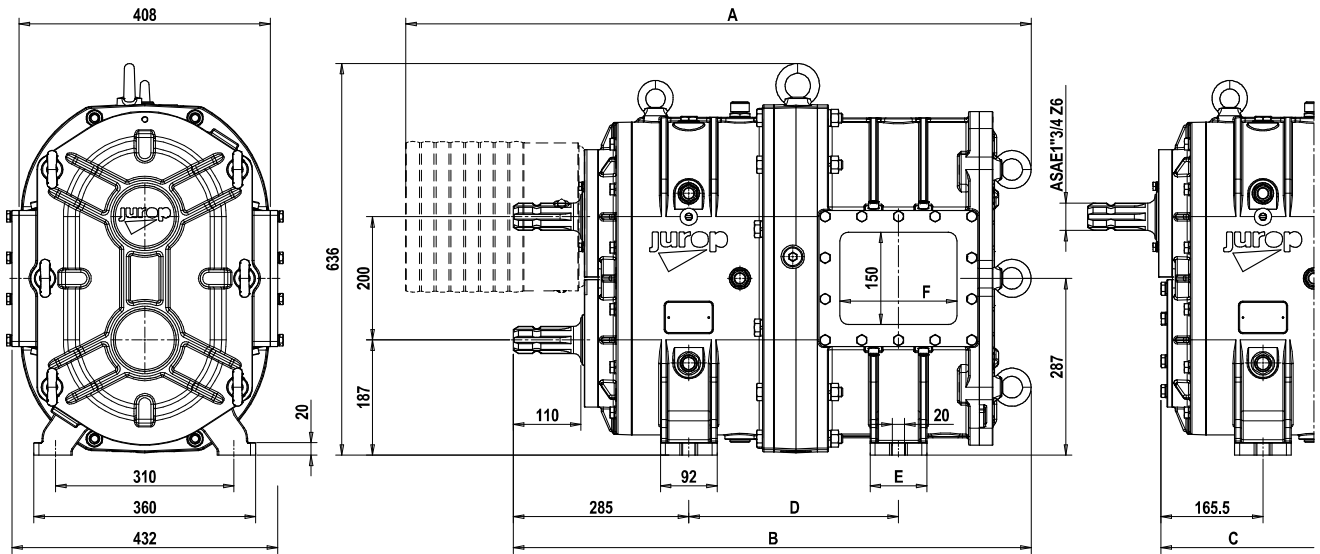
TECHNICAL DATA		VL 70	VL 70 HDR	VL 100	VL 100 HDR	VL 140	VL 140 HDR
Max. rpm	rpm	600	600	600	600	600	600
Rated rpm	rpm	150 - 400	150 - 400	150 - 400	150 - 400	150 - 400	150 - 400
Max. Flow (at rpm max.)	l/min	<b>7000</b>	<b>7000</b>	<b>10000</b>	<b>10000</b>	<b>14000</b>	<b>14000</b>
	m <sup>3</sup> /h	420	420	600	600	840	840
Flow (at rated value)	l/min	1750 - 4667	1750 - 4667	2500 - 6666	2500 - 6666	3500 - 9333	3500 - 9333
	m <sup>3</sup> /h	105 - 280	105 - 280	150 - 400	150 - 400	210 - 560	210 - 560
VL Displacement	l/giro	ca. 11,7	ca. 11,7	ca. 16,6	ca. 16,6	ca. 23,4	ca. 23,4
Max. relative pressure (abs)	bar	5 (6)	5 (6)	4 (5)	4 (5)	3 (4)	3 (4)
Power (at rpm max.)	kW	88	88	112	112	130	130
Max. vacuum suction (P <sub>s</sub> )	bar	-0,6	-0,6	-0,6	-0,6	-0,6	-0,6

Conditions: Water, Density 1000 kg/m<sup>3</sup> - Viscosity 1cSt. Actual performance may vary of 5%.

**DIMENSIONS AND ARRANGEMENT**



VL

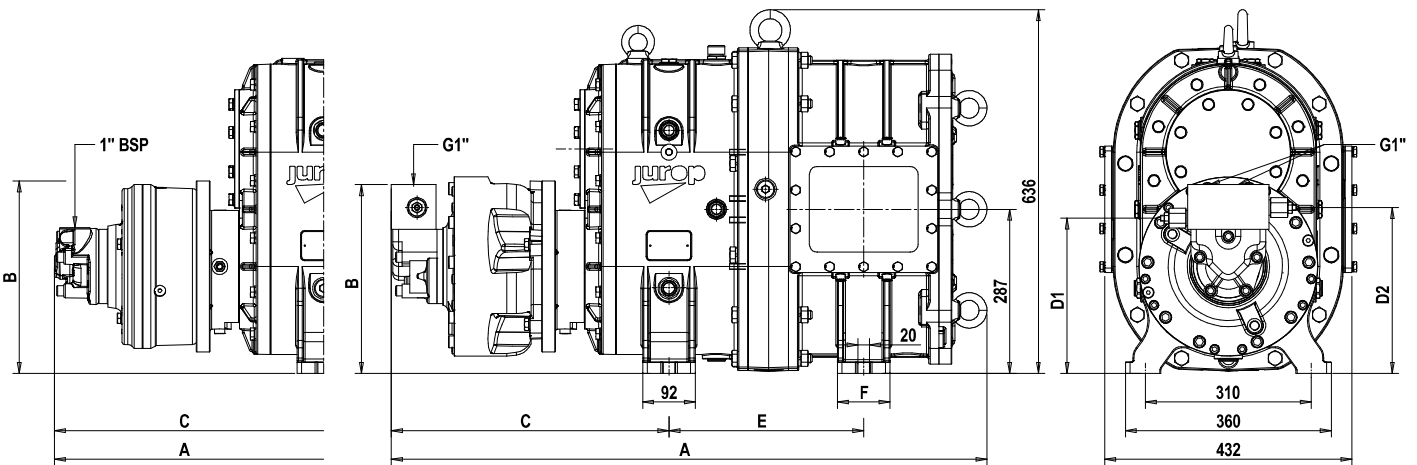


	A	B	C	D	E	F	WEIGHT
VL 70	1016	841	722	341	92	190	460 kg
VL 100	1117	942	823	391	100	290	520 kg
VL 140	1251	1076	957	458	121	415	594 kg

VL WITH HYDRAULIC TRANSMISSION

HYDRAULIC MOTOR TF

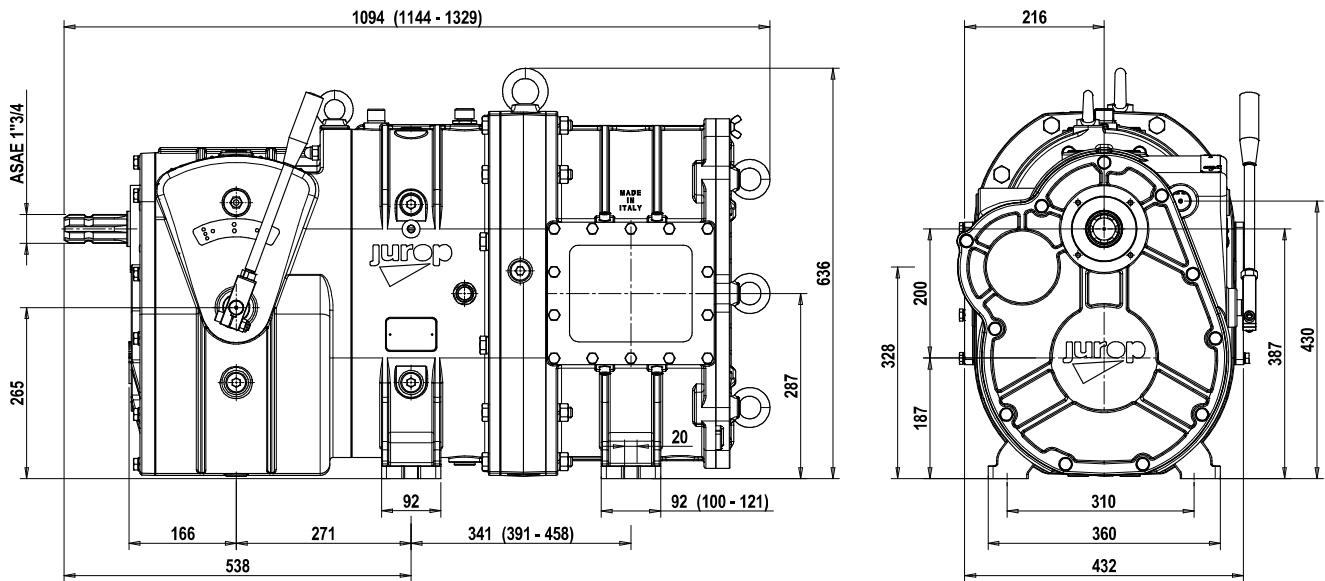
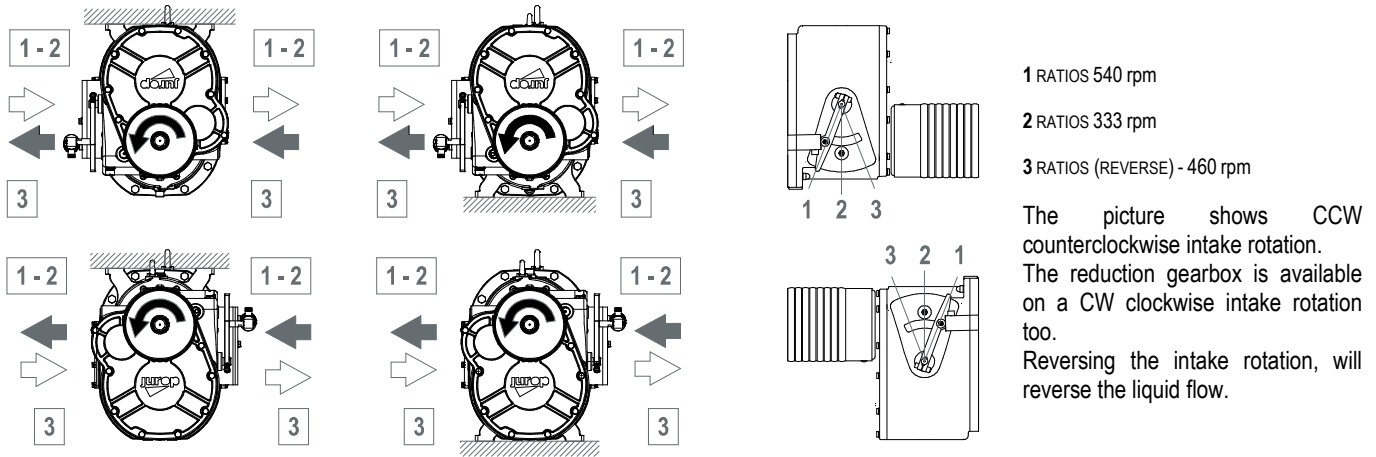
HYDRAULIC MOTOR HC



	A	B	C	D1	D2	E	F	WEIGHT
VL 70 HDR HC	1042	330	486	272	290	341	92	524 kg
VL 70 HDR TF	1029	336,5	470,5	-	-	341	92	515 kg
VL 100 HDR HC	1143	330	486	272	290	391	100	584 kg
VL 100 HDR TF	1128	336,5	470,5	-	-	391	100	575 kg
VL140 HDR HC	1275	330	486	272	290	451	121	659 kg
VL 140 HDR TF	1262	336,5	470,5	-	-	451	121	649 kg

**Note:** The image depicts the model VL70 HDR model with hydraulic motor (HC) mounted at the lower axis. The same can be mounted on the upper axis. The same considerations are also valid for the other hydraulic motor (TF) with which the pump can be supplied.

**VL G (WITH REDUCTION RATIOS IN FORWARD AND REVERSE)**



**Note:** Figure shows VL70 G (with reduction ratios in forward and reverse); the gear is available in the following version: hand gear, pneumatic and HYD. Values in brackets refer to (VL100 - VL140).

PERFORMANCES		VL 70 G	VL 100 G	VL 140 G
Ratios 1	Minimum input rpm	rpm 300	300	300
	Max. input rpm	rpm 1110	1110	1110
	Lobes rpm at 1000 rpm / a 1110 rpm	rpm 540 / 600	540 / 600	540 / 600
	Flow at 1000 / 110 input rpm	l/min 6300 / 7000	9000 / 10000	12600 / 14000
	Max. relative pressure (abs)	bar 4 (5)	3 (4)	2 (3)
Ratios 2	Minimum input rpm	rpm 300	300	300
	Max. input rpm	rpm 1110	1160	1110
	Lobes rpm at 1000 rpm / a 1110 rpm	rpm 333 / 370	333 / 370	333 / 370
	Flow at 1000 / 110 input rpm	l/min 3885 / 4317	5550 / 6167	7770 / 8633
	Max. relative pressure (abs)	bar 5 (6)	4 (5)	3 (4)
Ratios 3 (reverse)	Minimum input rpm	rpm 300	300	300
	Max. input rpm	rpm 1110	1110	1110
	Lobes rpm at 1000 rpm / a 1110 rpm	rpm 460 / 511	460 / 511	460 / 511
	Flow at 1000 / 110 input rpm	l/min 5370 / 5965	7666 / 8516	10740 / 11930
	Max. relative pressure (abs)	bar 4,5 (5,5)	3,5 (4,5)	2,5 (3,5)
Weight	kg	597	657	731

**Conditions:** Water, Density 1000 kg/m<sup>3</sup> - Viscosity 1cSt. Actual performance may vary of 5%.