



### Construction

Vertical multi-stage pumps with suction and delivery connections of the same diameter and arranged along the same axis (in-line). Corrosion-resistant bearing sleeves lubricated by the pumped liquid. A pump with thrust bearing and sleeve coupling for use of any standard motor with IM V1 construction.

**Version with frequency converter (on request)**

### Applications

For water supply systems.  
For clean non-explosive liquids, without solid, filamentary or abrasive matter (with adaptation of sealing materials on request). A universal pump for civil and industrial use, for pressure-boosting systems, fire-extinguishing systems, high-pressure washing plants, irrigation, agricultural uses and sport installations.

### Operating conditions

Temperature of liquid: from -15 °C to +110 °C.  
Operating environment temperature: up to 40 °C.  
Maximum permissible pressure in pump casing: 25 bar.

### Motor

Standard-type: 2-pole induction motor, 50 Hz (n ≈ 2900 rpm). Construction IM V1 (EN 60034-7).

Motor suitable for operation with frequency converter.

**Classification scheme IE3 for three-phase motors.**

Insulation class F.

Protection IP 55.

three-phase with rated voltage: up to 3 kW 230/400 V;  
from 4 kW 400/690 V.

The electropumps MXVL series comply with the European Regulation no. 547/2012.

## MXVL 25, 32, 40

All parts that come into contact with the liquid, including wet-end covers, are in chrome-nickel-molybdenum stainless steel AISI 316L.

### Materials (wetted parts)

Component	Material
Flange	Stainless Steel 1.4404 EN 10088 (AISI 316L)
External jacket	
Suction casing	
Delivery casing	
Stage casing	
Impeller	
Lower cover	
Upper cover	
Spacer sleeve	
Pump shaft	Stainless Steel
Plug	1.4404 EN 10088 (AISI 316L)
Bearing sleeve	Corrosion-resistant, cemented carbide Ceramic alumina
Bearing in stage casing	
Mechanical seal ISO 3069 - KU	Hard metal/Carbon/EPDM.
Wear ring	PTFE
O-rings	NBR

**Direction of rotation:** clockwise as seen from the motor.

### Variants (to be specified when ordering)

- Pump with threaded ports (G).
- Pump with flanged ports (F).
- Pump without motor.
- Pump with standard motor.

### Other variants (on request)

- With counter-flanges in chrome-nickel steel.
- O-rings FPM. Other mechanical seal.
- Pump with motor of Client's choice (if available).
- Single-phase motor 230 V, up to 2.2 kW.
- 4-pole induction motor (MXVL4 series).
- Other voltage ratings.
- Frequency 60 Hz.

## MXVL 50, 65, 80, 100

Internal parts in contact with the liquid with pump casing and upper cover in chrome-nickel-molybdenum stainless steel AISI 316L.

### Materials (wetted parts)

Component	Material
Pump casing	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Upper cover	
External jacket	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Stage casing	
Impeller	
Spacer sleeve	
Pump shaft	Stainless Steel (AISI 316L)(AISI 329 for MXVL 100)
Plug	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Bearing sleeve	Corrosion-resistant, cemented carbide Ceramic alumina (Corrosion-resistant, cemented carbide for MXVL 100)
Bearing in stage casing	
Mechanical seal ISO 3069 - KU	Hard metal/Carbon/EPDM
Wear ring	PTFE
O-rings	NBR (EPDM for MXV 100)

**Direction of rotation:** anticlockwise as seen from the motor.  
(clockwise as seen from the motor for MXVL 100)

### Variants (to be specified when ordering)

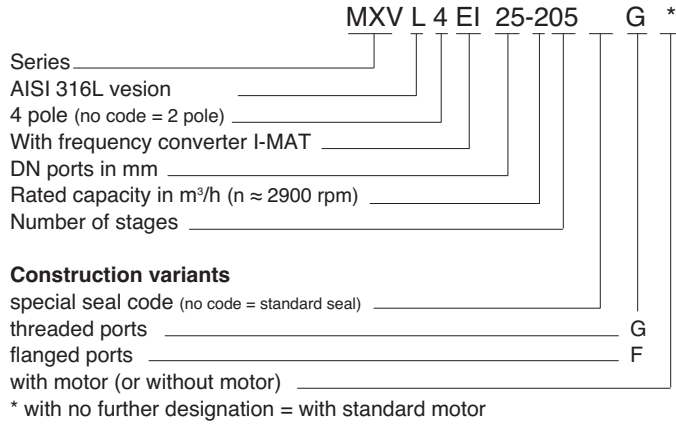
- Pump without motor.
- Pump with standard motor.

### Other variants (on request)

- O-rings FPM. Other mechanical seal.
- Pump with motor of Client's choice (if available).
- Other voltage ratings.
- 4-pole induction motor (MXVL4 series).
- Frequency 60 Hz.
- Pump with support feet for horizontal installation (H1 or H2).
- Support feet for horizontal installation, set.
- Welding counter-flanges, PN 25 (steel).

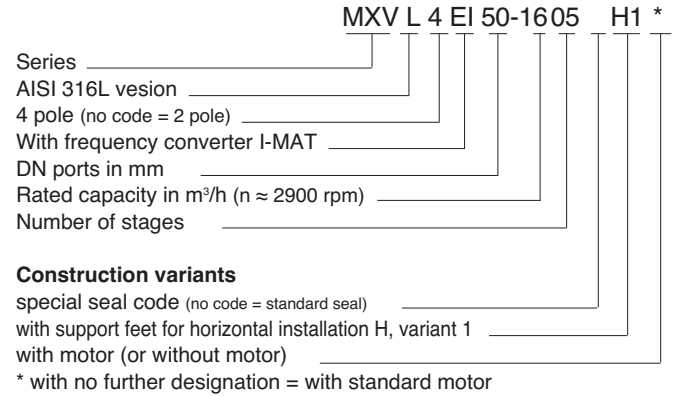
### MXVL 25, 32, 40

#### Designation



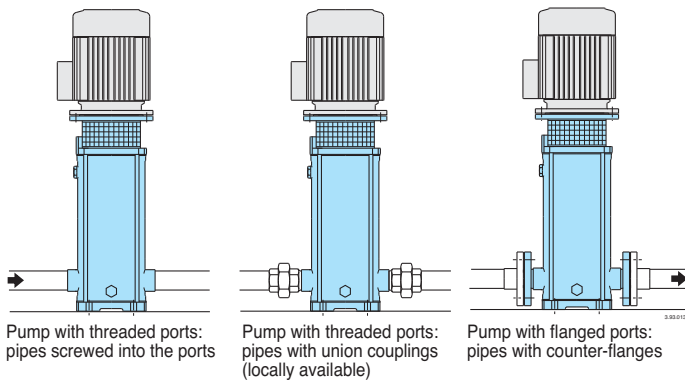
### MXVL 50, 65, 80, 100

#### Designation

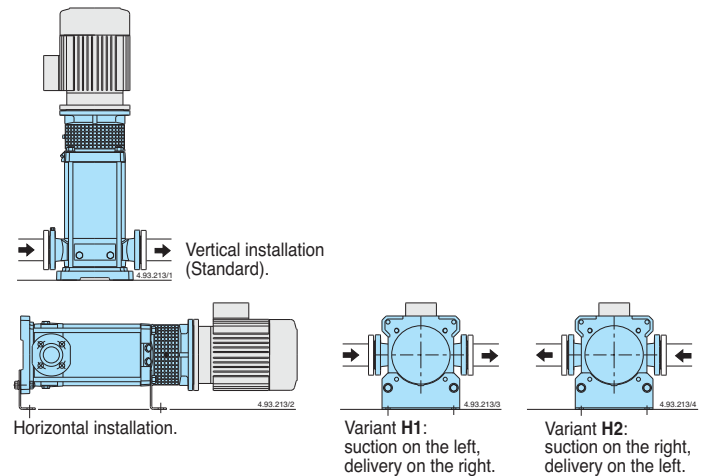


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#### Pipe connection



#### Installations



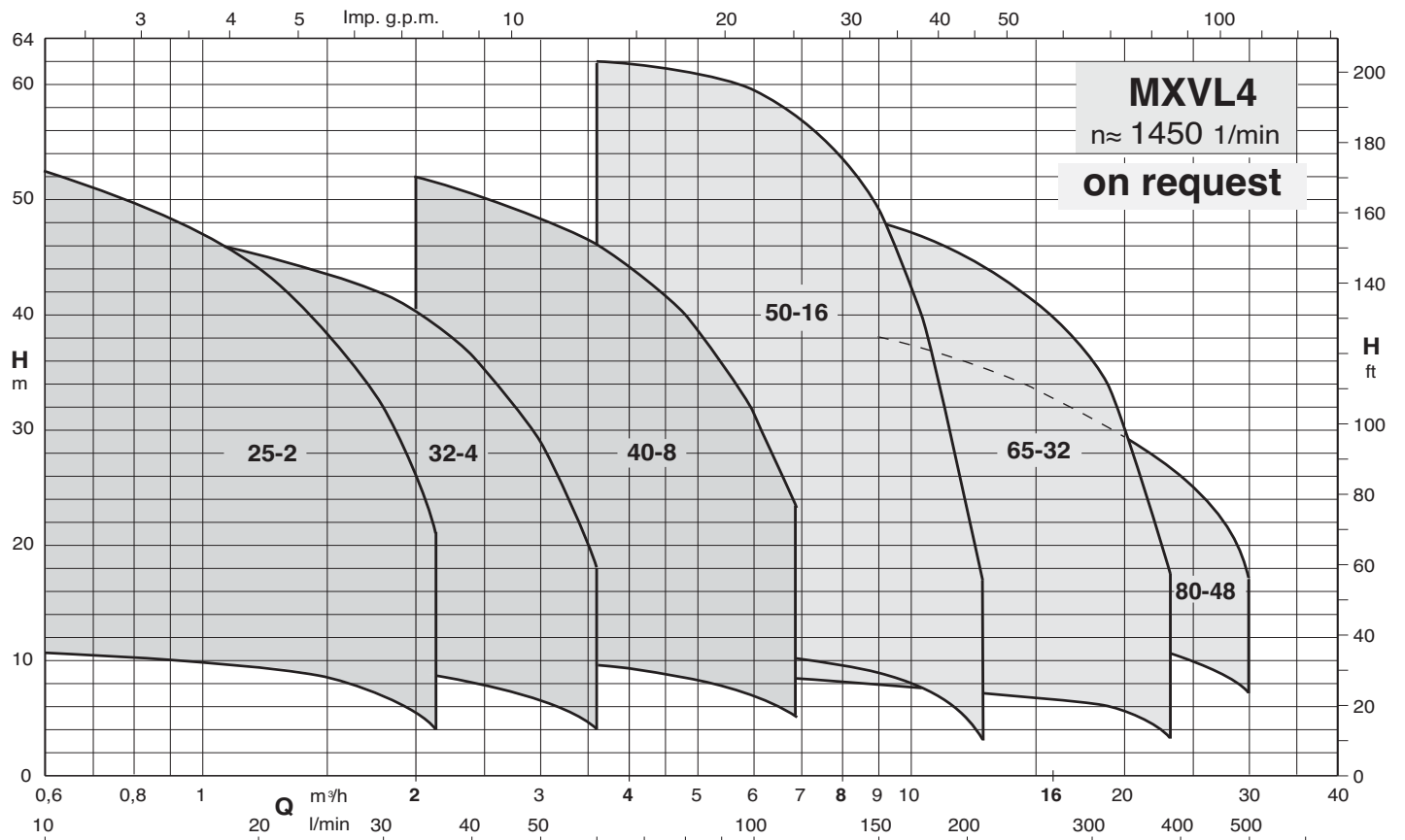
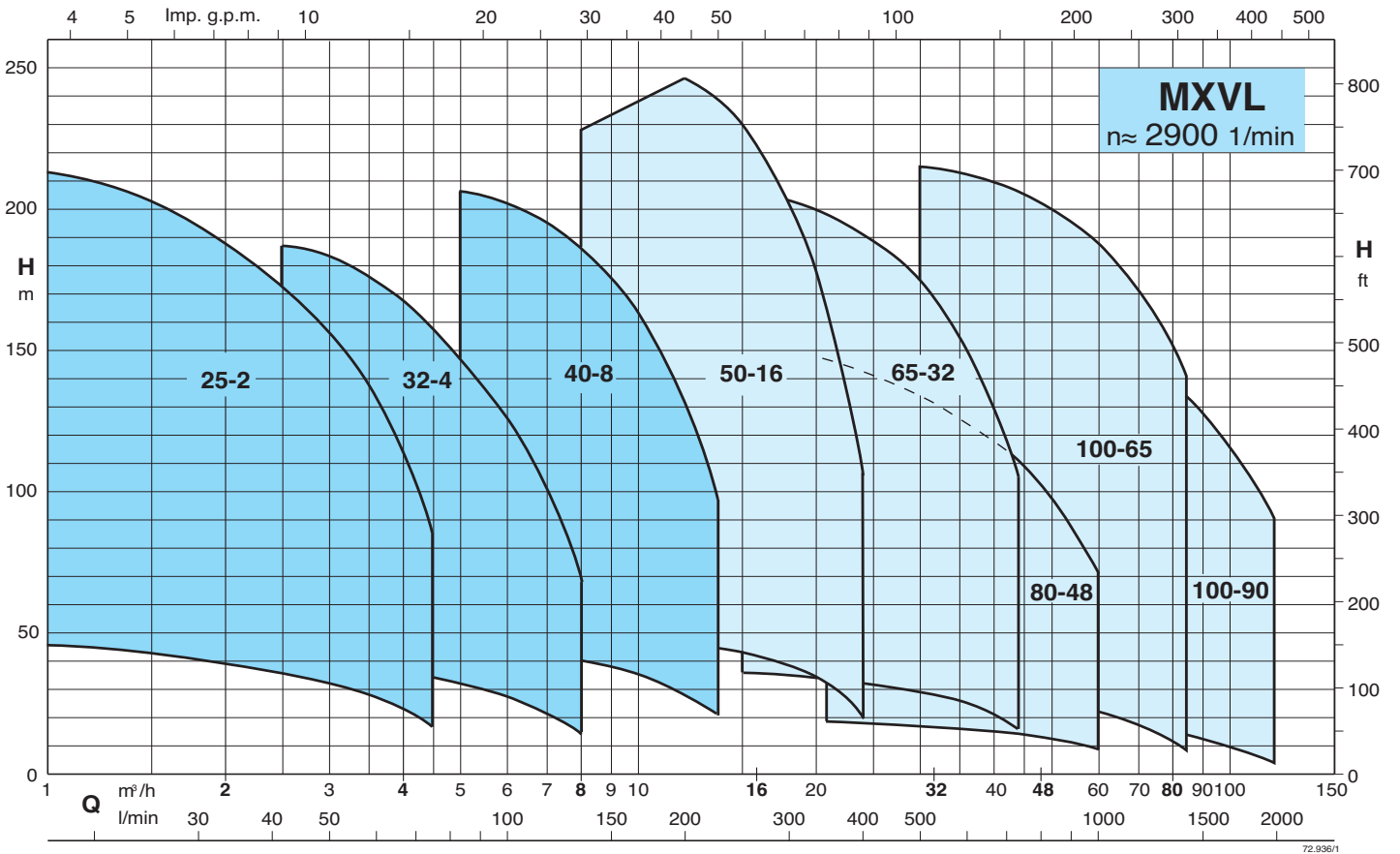
#### Variable parts

Pump size MXVL - MXV4L			Number of stages	Stage casings with bearing
25 - 204	32 - 404	40 - 804	4	1
25 - 205	32 - 405	40 - 805	5	1
25 - 206	32 - 406	40 - 806	6	1
25 - 207	32 - 407	40 - 807	7	1
25 - 208	32 - 408	40 - 808	8	1
25 - 210	32 - 410	40 - 810	10	1
25 - 212	32 - 412	40 - 811	11	2
		40 - 813	12	2
		40 - 815	13	2
25 - 214	32 - 414	40 - 813	14	2
		40 - 815	15	2
25 - 216	32 - 416		16	2
25 - 218	32 - 418		18	2
25 - 220		40 - 817	17	3
		40 - 819	19	3
			20	3

#### Variable parts

Pump size MXVL - MXV4L			Number of stages	Stage casings with bearing
50 - 1603 50 - 1604 50 - 1605 50 - 1606 50 - 1607 50 - 1608 50 - 1609 50 - 1610	65 - 3202	80 - 4801	1	1
	65 - 3203	80 - 4802	2	1
	65 - 3204	80 - 4803	3	1
	65 - 3205	80 - 4804	4	1
	65 - 3206	80 - 4805	5	1
	65 - 3207		6	1
			7	1
			8	1
			9	1
			10	1
50 - 1611 50 - 1612 50 - 1614 50 - 1616	65 - 3208 65 - 3209 65 - 3210	80 - 4806	6	2
		80 - 4807	7	2
		80 - 4808	8	2
			9	2
			10	2
			11	2
			12	2
			14	2
		16	2	

### Coverage chart



For characteristic curves, dimensions and weights see cap. 11