

LENNTECH

WATER TREATMENT SOLUTIONS



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

MXV 25, 32, 40, 50

All parts that come into contact with the liquid, including wet-end covers, are in chrome-nickel stainless steel AISI 304.

Materials (wetted parts)

Component	Material
Flange External jacket Suction casing Delivery casing Stage casing Impeller Lower cover Upper cover Spacer sleeve	Stainless Steel 1.4301 EN 10088 (AISI 304)
Pump shaft Plug	Stainless Steel 1.4305 EN 10088 (AISI 303) (for MXV 50 AISI 304)
Bearing sleeve Bearing in stage casing	Corrosion-resistant, cemented carbide Ceramic alumina
Mechanical seal ISO 3069 - KU	Hard metal/Carbon/EPDM.
Wear ring	PPS (PTFE for MXV 40)
O-rings	NBR (EPDM for MXV 50)

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

Variants (to be specified when ordering)

Pump with threaded ports (**G**) (for MXV 25, 32, 40).
Pump with flanged ports (**F**).
Pump with oval flange ports (**O**) (for MXV 50).
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.
Other voltage ratings.
Frequency 60 Hz.

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. Removal of the mechanical seal without dismantling the motor (for MXV 50, MXV 100 with motors exceeding 4 kW). 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 (up to +120 °C for MXV 50).

Operating environment temperature: up to 40 °C.

Maximum permissible pressure in pump casing: 25 bar.
(16 bar for pumps with oval flanges).

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.

MXV 65, 80, 100

Internal parts in contact with the liquid in chrome-nickel stainless steel, AISI 304 with pump casing and upper cover in cast iron.

Materials (wetted parts)

Component	Material
Pump casing Upper cover	Cast iron GJL 250 EN 1561
External jacket Stage casing Impeller Spacer sleeve	Stainless Steel 1.4301 EN 10088 (AISI 304)
Pump shaft Plug	Stainless Steel (AISI 303)(AISI 431 for MXV 100) Stainless Steel (AISI 303)(AISI 304 for MXV 100)
Bearing sleeve Bearing in stage casing	Corrosion-resistant, cemented carbide Ceramic alumina (Corrosion-resistant, cemented carbide for MXV 100)
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 MXV 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.
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).

Pumps with frequency converter

The **MXV EI** pumps are available with power from 0,75 kW up to 22 kW, the pumps are equipped with **I-MAT** installed on board which allows to realize a variable-speed system extremely compact and efficient, ideal in applications of water supply and in the distribution of hot and cold water. The pump is equipped with transducers suitable for operation and is already programmed at the factory.

Advantages

- Energy saving
- Compact design
- Easy to use
- Programmable to suit the system requirements
- Reliability

Costruction

The system comprises of:

- Pump
- Induction motor
- I-MAT Frequency converter
- Motor adapter for the motor mounting of the frequency converter
- Connection cable between frequency converter and induction motor
- Transducers

Main features

Rated motor power output from 0,75 kW to 22 kW

Control range from 1750 to 2900 rpm (2-pole)

Protection against dry running

Protection against operations with closed connection ports

Protection against system leakages

Protection against overcurrent in the motor

Protection against overvoltage and undervoltage of the power supply

Protection against current unbalances between phases

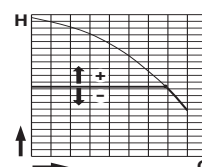


Operating modes



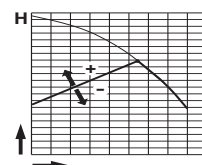
Mode at a constant pressure with pressure sensor

In this mode, the system maintains the preset pressure when the flow required by the installation changes.



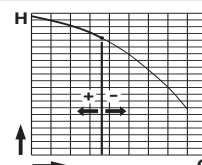
Proportional pressure mode with pressure sensor

In this mode the system changes the working pressure according to the required flow rate.



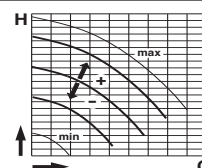
Constant flow mode with flow meter

In this mode the system maintains a constant flow rate value in a point of the installation according to the required pressure.



Fixed speed mode with setting of the speed preferential rotation.

In this mode, by changing the working frequency, you may choose any operational curve included within the working range.



Constant temperature mode with temperature transducer

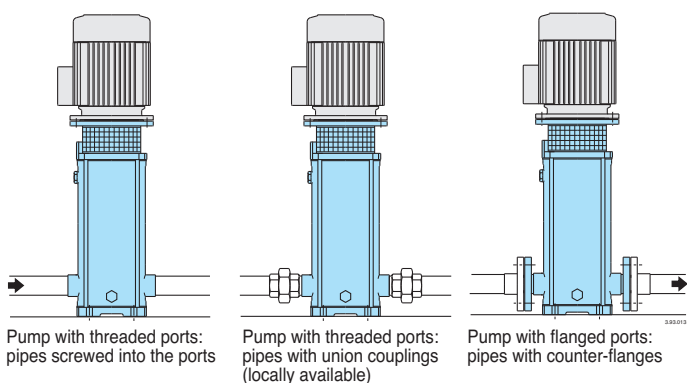
In this mode the system keeps the temperature constant inside a system by changing the speed of the pump.

MXV 25, 32, 40, 50

Designation

Series _____ MXV L EI 25-205 G *
 AISI 316L version _____
 With frequency converter I-MAT _____
 DN ports in mm _____
 Rated capacity in m³/h (n ≈ 2900 rpm) _____
 Number of stages _____
Construction variants
 special seal code (no code = standard seal) _____
 threaded ports _____ G
 flanged ports _____ F
 oval flange ports _____ O
 with motor (or without motor) _____
 * with no further designation = with standard motor

Pipe connection



Variable parts

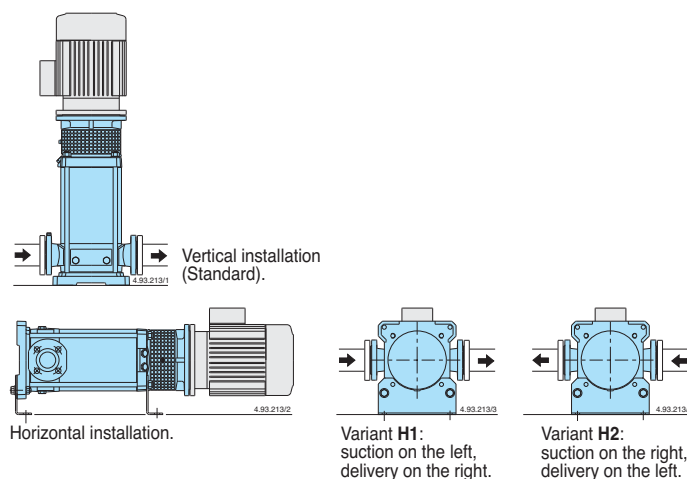
Pump size MXV			Number of stages	Stage casings with bearing
25-204	32-404	40-804	4	1
25-205	32-405	40-805	5	1
25-206	32-406	40-806	6	1
25-207	32-407	40-807	7	1
25-208	32-408	40-808	8	1
25-210	32-410	40-810	10	1
25-212	32-412	40-811	11	2
		40-813	12	2
		40-815	13	2
		40-815	14	2
25-214	32-414	40-815	15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

MXV 65, 80, 100

Designation

Series _____ MXV L EI 65-3205 H1 *
 AISI 316L version _____
 With frequency converter I-MAT _____
 DN ports in mm _____
 Rated capacity in m³/h (n ≈ 2900 rpm) _____
 Number of stages _____
Construction variants
 special seal code (no code = standard seal) _____
 with support feet for horizontal installation H, variant 1 _____
 with motor (or without motor) _____
 * with no further designation = with standard motor

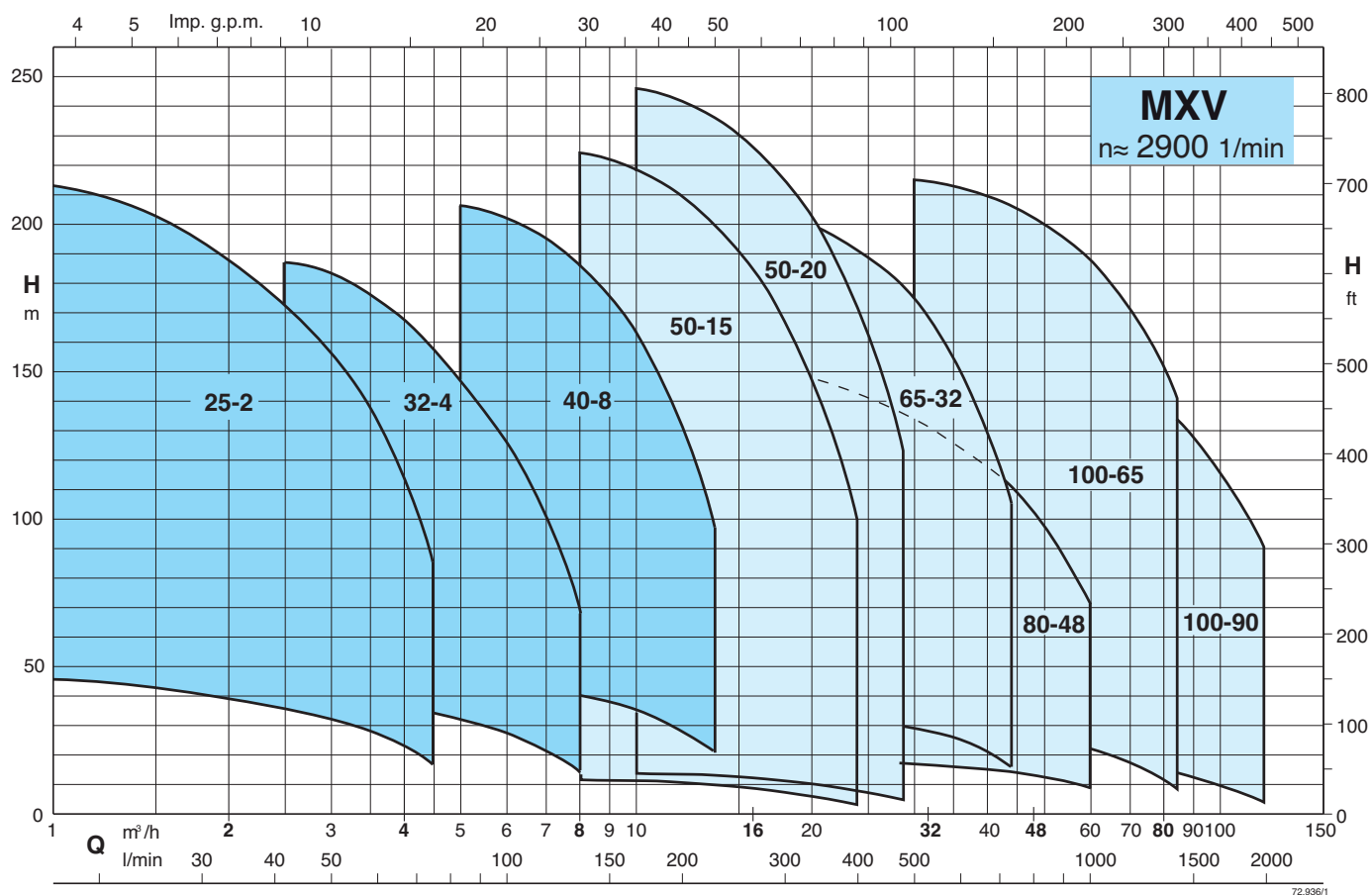
Installations



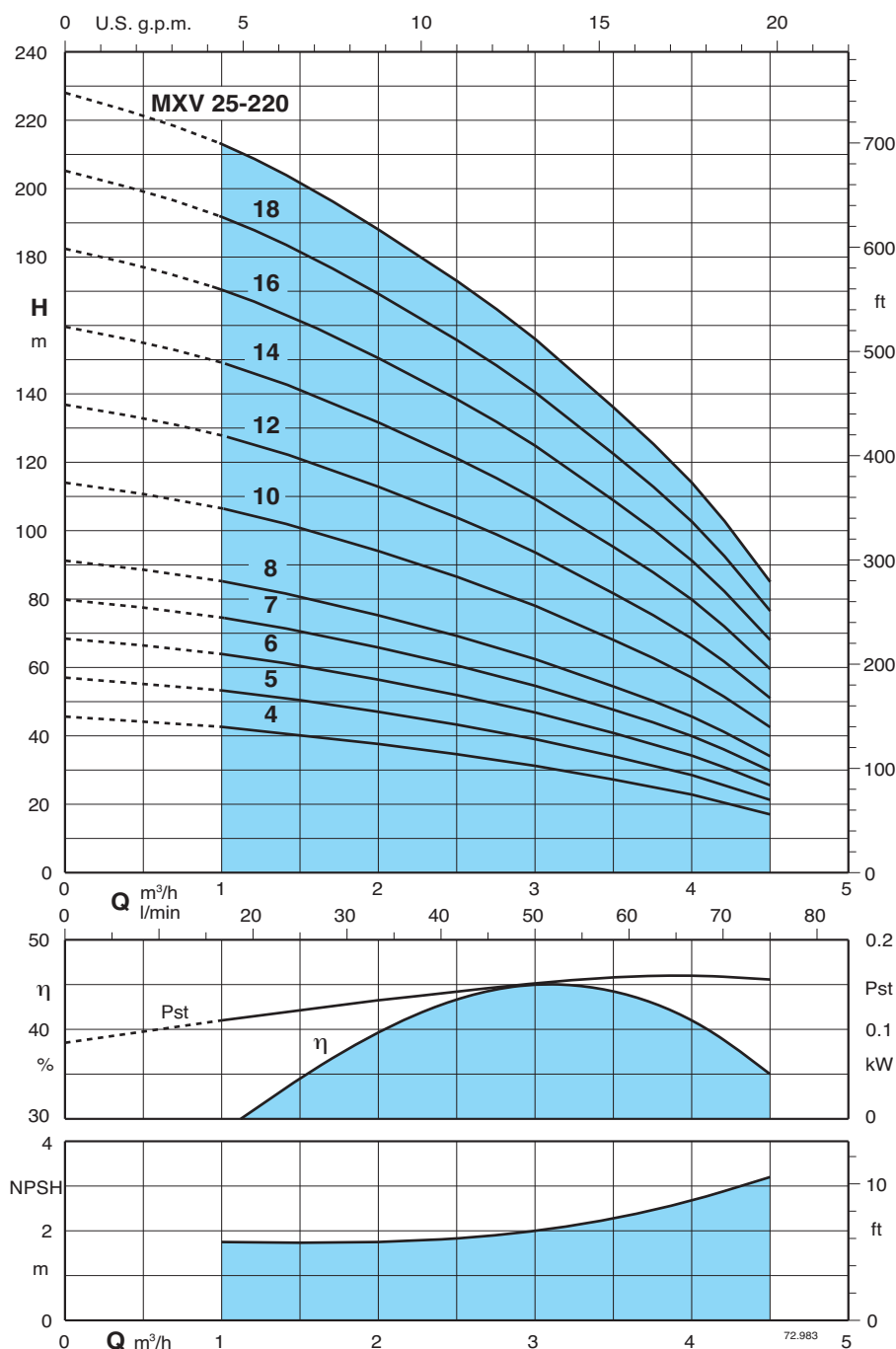
Variable parts

Pump size MXV				Number of stages	Stage casings with bearing
50-1501	50-2001	65-3202	80-4801	1	1
50-1502	50-2002	65-3202	80-4802	2	1
50-1503	50-2003	65-3203	80-4803	3	1
50-1504	50-2004	65-3204	80-4804	4	1
50-1505	50-2005	65-3205	80-4805	5	1
50-1506	50-2006	65-3206		6	1
50-1507	50-2007	65-3207		7	1
50-1508	50-2008	65-3207		8	1
50-1509	50-2009	65-3208	80-4806	6	2
			80-4807	7	2
			80-4808	8	2
				9	2
				10	2
				11	2
				12	2
50-1510	50-2010	65-3210		13	2
50-1511	50-2011				
50-1512	50-2012	65-3212			
50-1513	50-2013				
50-1514	50-2014			14	3
50-1515	50-2015			15	3
50-1516	50-2016			16	3
50-1517	50-2017			17	3

Coverage chart



Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

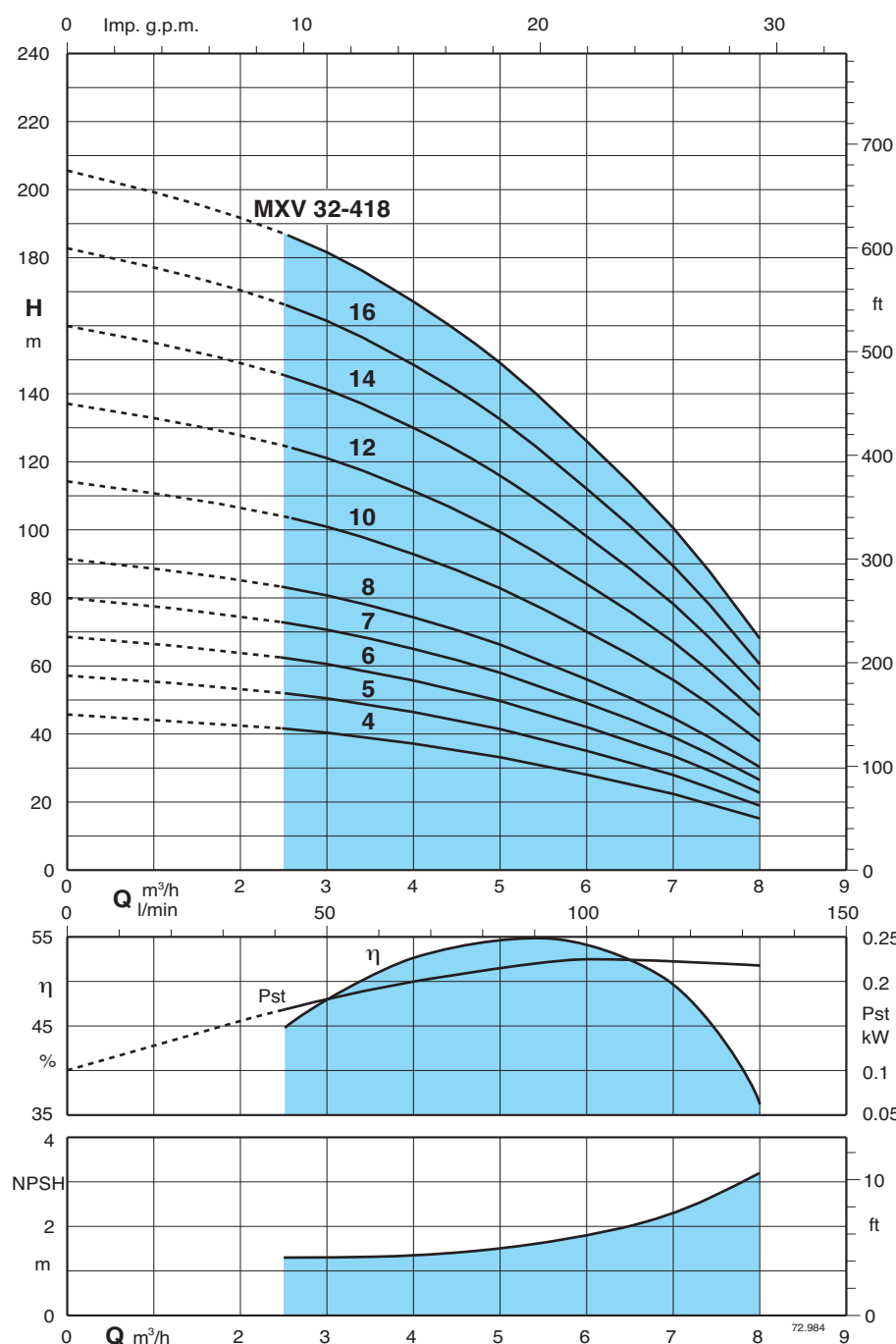
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V 400 V		Motor power		Q m³/h l/min	0	1	1,5	2	2,5	3	3,5	4	4,5
	A*	A*	kW	HP		0	16,6	25	33,3	41,6	50	58,3	66,6	75
MXV 25-204/C	4	2,3	0,75	1	H m	44	42,5	40	37,5	34,5	31	27	22,5	17
MXV 25-205/C	4	2,3	0,75	1		56	53	50	47	43	39	34	28	21
MXV 25-206/D	4,7	2,7	1,1	1,5		68	63,5	60,5	56	51,5	46,5	40,5	34	25
MXV 25-207/D	4,7	2,7	1,1	1,5		79,5	74	70,5	65,5	60	54,5	47,5	39,5	30
MXV 25-208/D	7,4	4,3	1,5	2		91	85	80,5	75	69	62	54	45,5	34
MXV 25-210/D	7,4	4,3	1,5	2		114	106	101	94	86	78	68	57	42
MXV 25-212/D	9,2	5,3	2,2	3		136	127	121	112	103	93,5	81,5	68	51
MXV 25-214/D	9,2	5,3	2,2	3		159	149	141	131	121	109	95	79,5	59
MXV 25-216/C	11,4	6,6	3	4		182	170	161	150	138	124	108	91	68
MXV 25-218/C	11,4	6,6	3	4		205	191	181	169	155	140	122	102	76
MXV 25-220/C	11,4	6,6	3	4		228	213	202	188	173	156	136	114	85

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

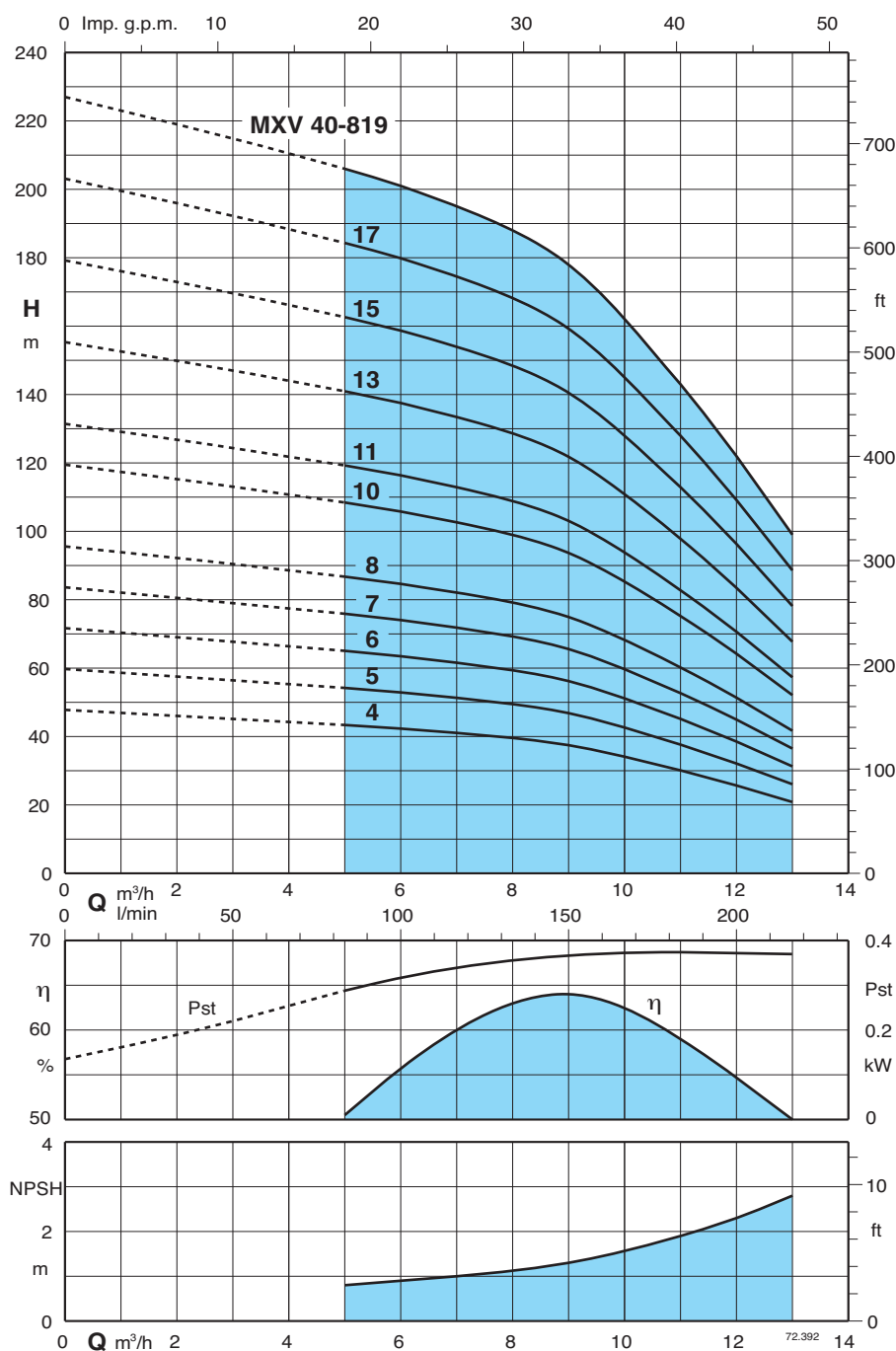
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V		400 V		Motor power		Q m^3/h l/min	0	2,5	3	3,5	4	4,5	5	6	7	8
	A*	A*	A*	A*	kW	HP		0	41,6	50	58,3	66,6	75	83,3	100	116,6	133,3
MXV 32-404/D	4,7	2,7	1,1	1,5			H m	45	41,5	40	38,5	36,5	34,5	32,5	27,5	22	14,5
MXV 32-405/D	4,7	2,7	1,1	1,5				56	51,5	50	48	46	43,5	41	34,5	27,5	18,5
MXV 32-406/D	7,4	4,3	1,5	2				68	62	60	58	55,5	52,5	49,5	42	33,5	22,5
MXV 32-407/D	7,4	4,3	1,5	2				79,5	72,5	70,5	68	65	61,5	58	49	39	26,5
MXV 32-408/D	9,2	5,3	2,2	3				91	83	80,5	78	74	70	66	56	44,5	30
MXV 32-410/D	9,2	5,3	2,2	3				114	104	101	97,5	93	88	83	70	56	38
MXV 32-412/C	11,4	6,6	3	4				136	124	121	117	111	105	99,5	84	67	45,5
MXV 32-414/C	11,4	6,6	3	4				159	145	141	136	130	123	116	98	78	53
MXV 32-416/D		9,6	4	5,5				182	166	161	156	148	140	132	112	89,5	60,5
MXV 32-418/D		9,6	4	5,5				205	187	181	175	167	158	149	126	100	68

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

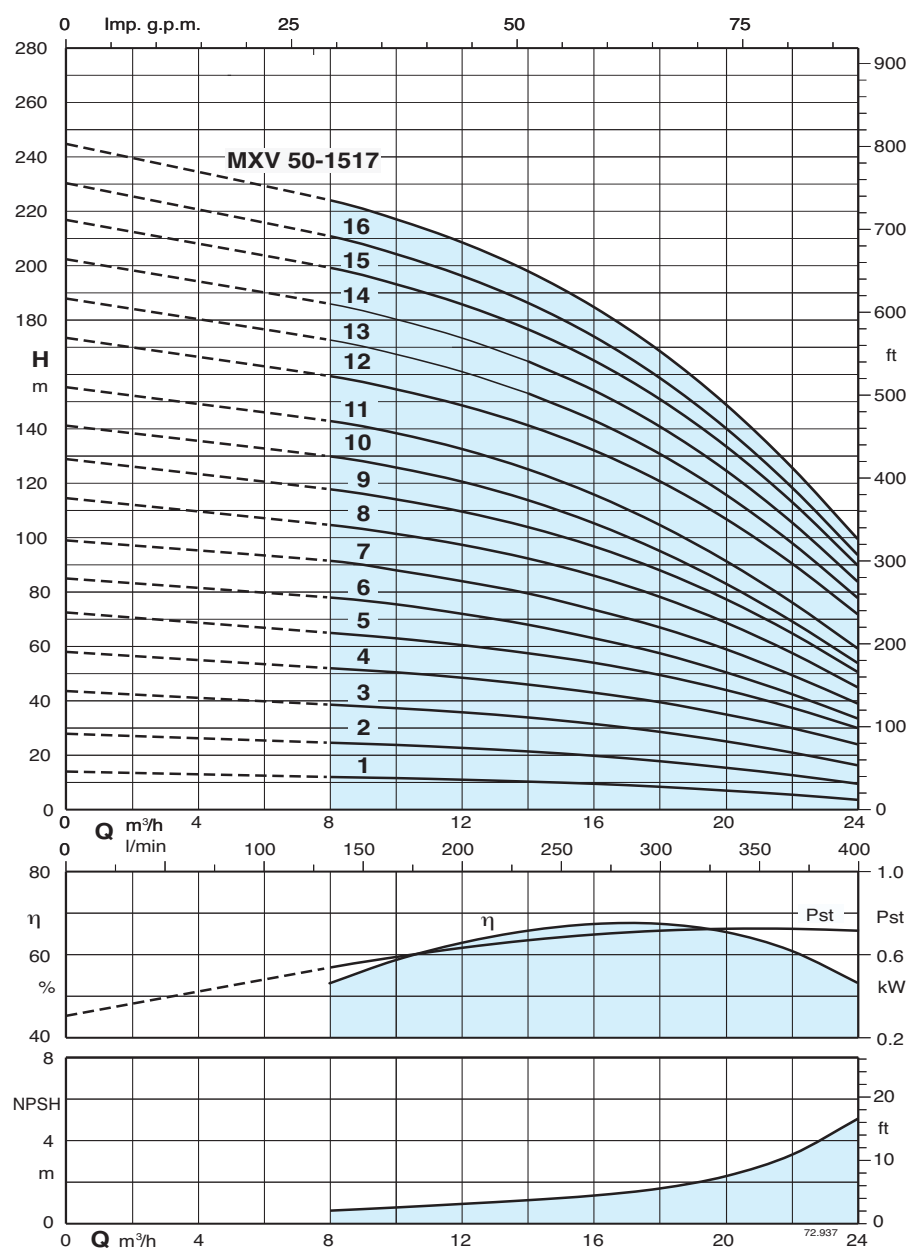
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \max 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V		400 V		Motor power		Q m³/h l/min	0	5	6	7	8	9	10	11	12	13
	A*	A*	A*	A*	kW	HP		0	83,3	100	116,6	133,3	150	166,6	183,3	200	216,6
MXV 40-804/D	7,4	4,3			1,5	2	H m	47	43	42	41	40	37	34	30	26	21
MXV 40-805/D	9,2	5,3			2,2	3		59	54	53	51	50	47	43	38	32	26
MXV 40-806/D	9,2	5,3			2,2	3		71	65	63	62	59	56	51	45	39	31
MXV 40-807/C	11,4	6,6			3	4		83	76	74	72	69	66	60	53	45	36
MXV 40-808/C	11,4	6,6			3	4		95	87	85	82	79	75	69	60	51	42
MXV 40-810/D		9,6			4	5,5		119	109	106	103	99	94	86	75	64	52
MXV 40-811/D		9,6			4	5,5		131	119	116	113	109	103	94	83	71	57
MXV 40-813/C		10,9			5,5	7,5		155	141	138	134	129	122	111	98	84	68
MXV 40-815/C		10,9			5,5	7,5		179	163	159	154	149	141	128	113	96	78
MXV 40-817/C		14,3			7,5	10		202	184	180	175	168	159	145	128	109	89
MXV 40-819/C		14,3			7,5	10		226	206	201	195	188	178	162	143	122	99

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

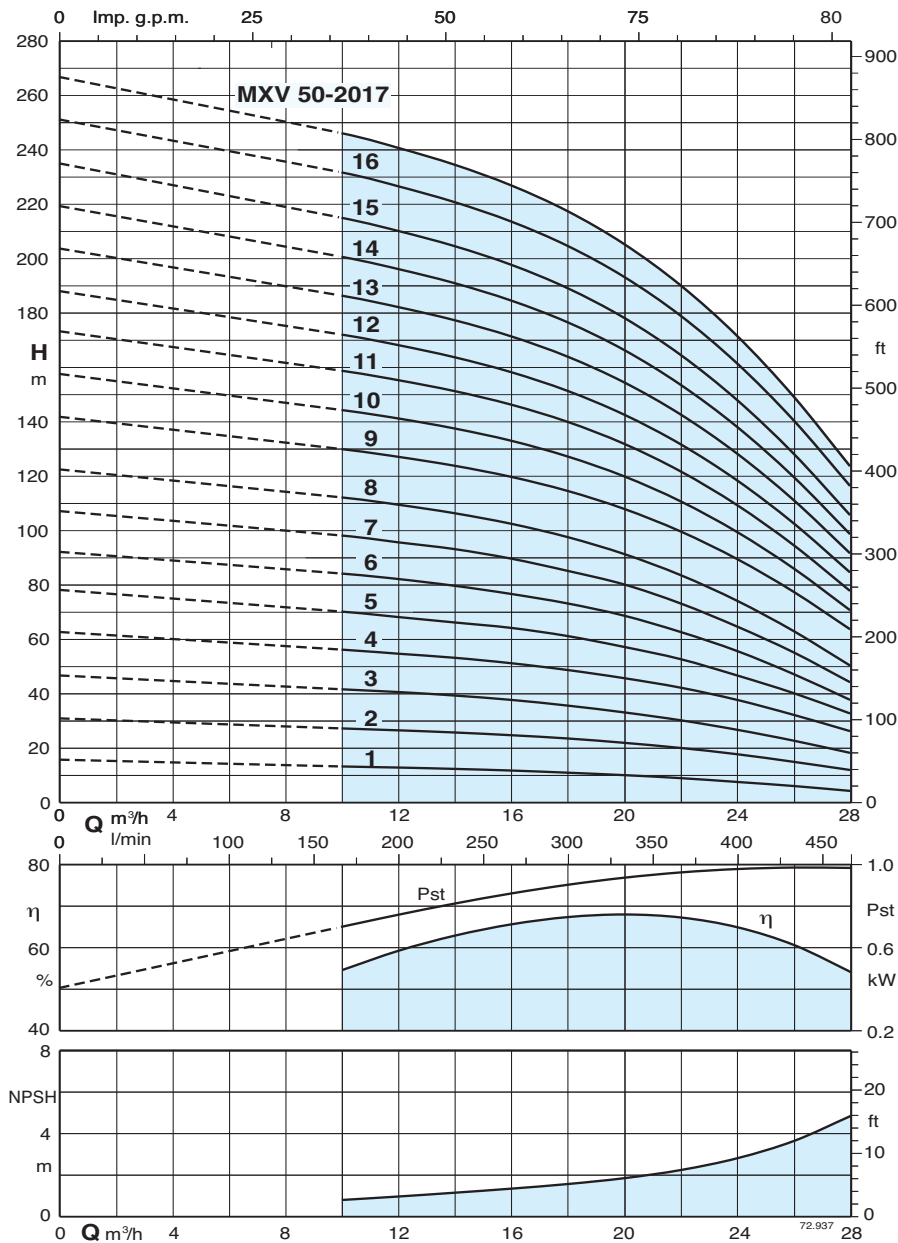
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \max 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V		400 V		Motor power		Q m³/h l/min	0	8	10	12	14	16	18	20	22	24
	A*	A*	kW	HP	0	133,3		166,6	200	233	266	300	333	366	400		
MXV 50-1501	4,7	2,7	1,1	1,5	H m	14,0	12,0	11,6	11,0	10,3	9,5	8,4	7,0	5,5	3,6		
MXV 50-1502	7,4	4,3	1,5	2		27,9	24,6	23,8	22,7	21,4	19,8	17,8	15,4	12,7	9,5		
MXV 50-1503	9,2	5,3	2,2	3		43,6	38,6	37,3	35,8	33,9	31,5	28,6	25,1	21,0	16,3		
MXV 50-1504	11,4	6,6	3	4		58,0	52,0	50,5	48,5	46,0	43,0	39,5	35,0	30,0	24,0		
MXV 50-1505		9,6	4	5,5		72,5	65,0	63,0	60,5	57,5	54,0	49,5	44,0	37,5	30,0		
MXV 50-1506		10,9	5,5	7,5		85,0	78,0	75,5	72,0	68,0	63,0	57,5	50,5	42,5	33,5		
MXV 50-1507		10,9	5,5	7,5		99,0	91,5	88,0	84,0	79,5	73,5	67,0	59,0	49,5	39,0		
MXV 50-1508		14,3	7,5	10		115	105	101	97	92	86	78	69	58	45		
MXV 50-1509		14,3	7,5	10		129	118	114	110	104	97	88	77	65	51		
MXV 50-1510		14,3	7,5	10		141	130	126	121	114	105	95	83	69	54		
MXV 50-1511		18,5	9,2	12,5		155	143	138	133	125	116	105	91	76	59		
MXV 50-1512		18,5	9,2	12,5		173	159	155	149	141	132	121	107	91	72		
MXV 50-1513		21,5	11	15		188	173	167	161	153	143	131	116	98	78		
MXV 50-1514		21,5	11	15		202	186	180	173	165	154	141	125	106	84		
MXV 50-1515		21,5	11	15		217	199	193	186	177	165	151	134	113	90		
MXV 50-1516		27,3	15	20		230	211	204	196	186	174	159	140	119	94		
MXV 50-1517		27,3	15	20		245	224	217	209	198	185	169	149	126	100		

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

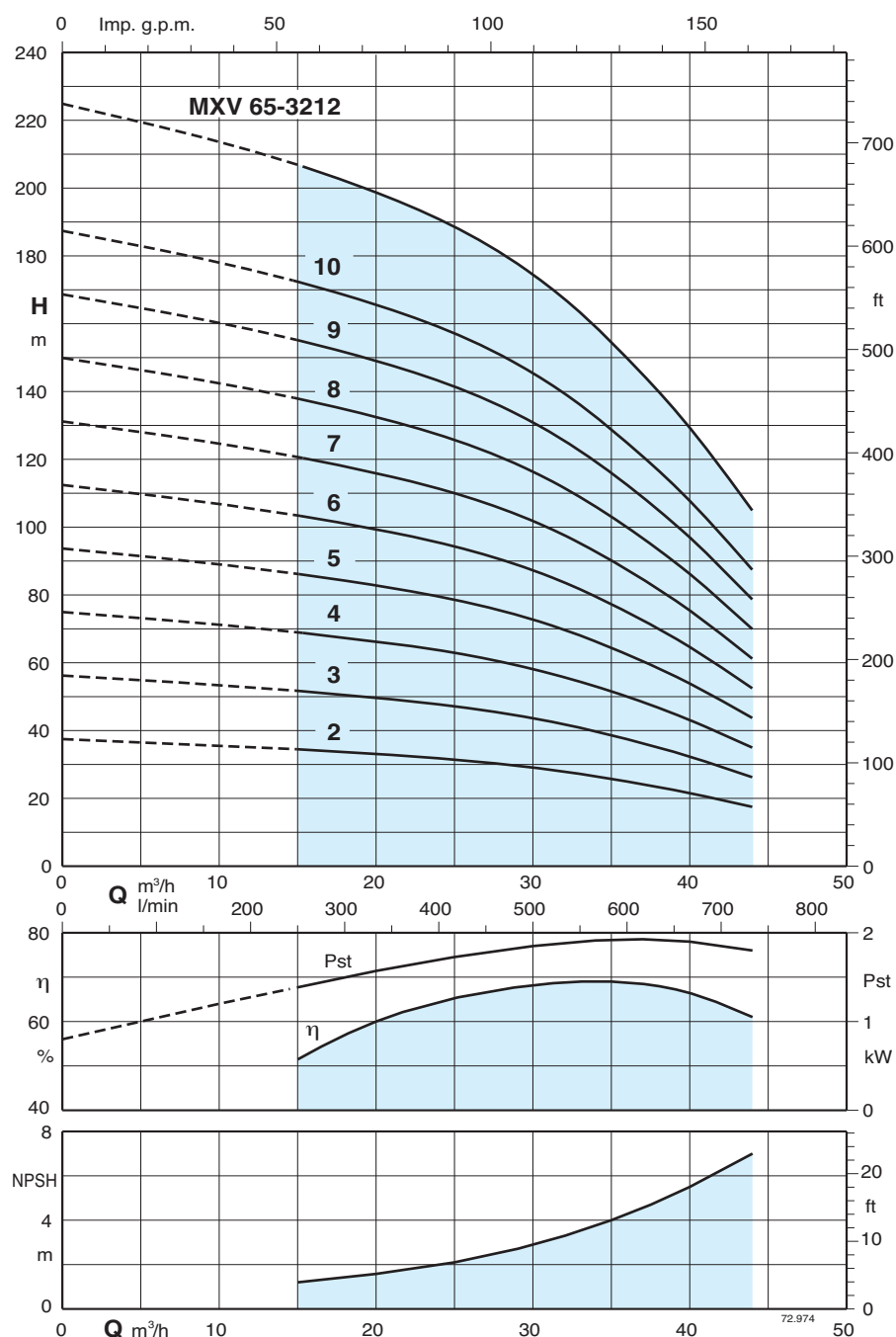
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V		400 V		Motor power		Q m³/h l/min	0	10	12	14	16	18	20	22	24	26	28
	A*	A*	A*	A*	kW	HP												
MXV 50-2001	4,7	2,7			1,1	1,5	H m	15,5	13,0	12,6	12,1	11,5	10,7	9,8	8,7	7,3	5,8	4,0
MXV 50-2002	9,2	5,3			2,2	3		30,7	27,0	26,3	25,5	24,5	23,3	21,7	19,8	17,5	14,7	11,7
MXV 50-2003	11,4	6,6			3	4		46,5	41,4	40,4	39,1	37,5	35,4	32,9	30,0	26,5	22,5	18,0
MXV 50-2004		9,6			4	5,5		62,5	56,0	54,5	53,0	51,0	48,5	45,5	42,0	37,5	32,0	26,0
MXV 50-2005		10,9			5,5	7,5		78,0	70,0	68,0	66,0	64,0	61,0	57,0	52,5	46,5	40,0	32,5
MXV 50-2006		14,3			7,5	10		92,0	84,0	82,0	79,5	76,5	73,0	68,5	62,5	55,5	47,0	37,5
MXV 50-2007		14,3			7,5	10		107,0	98,0	95,5	93,0	89,5	85,0	80,0	73,0	64,5	55,0	44,0
MXV 50-2008		18,5			9,2	12,5		122	112	109	106	102	97	91	83	74	63	50
MXV 50-2009		18,5			9,2	12,5		142	130	127	124	120	114	108	100	89	77	63
MXV 50-2010		21,5			11	15		158	144	141	137	133	127	120	111	99	86	71
MXV 50-2011		21,5			11	15		173	159	155	151	146	140	132	122	109	94	78
MXV 50-2012		27,3			15	20		188	172	168	164	158	151	143	132	118	103	84
MXV 50-2013		27,3			15	20		204	186	182	177	171	164	154	143	128	111	91
MXV 50-2014		27,3			15	20		219	201	196	191	185	177	166	154	138	120	99
MXV 50-2015		27,3			15	20		235	215	210	205	198	189	178	165	148	128	106
MXV 50-2016		34			18,5	25		251	232	227	221	214	205	193	179	161	140	116
MXV 50-2017		34			18,5	25		267	246	241	235	227	217	205	190	172	149	124

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

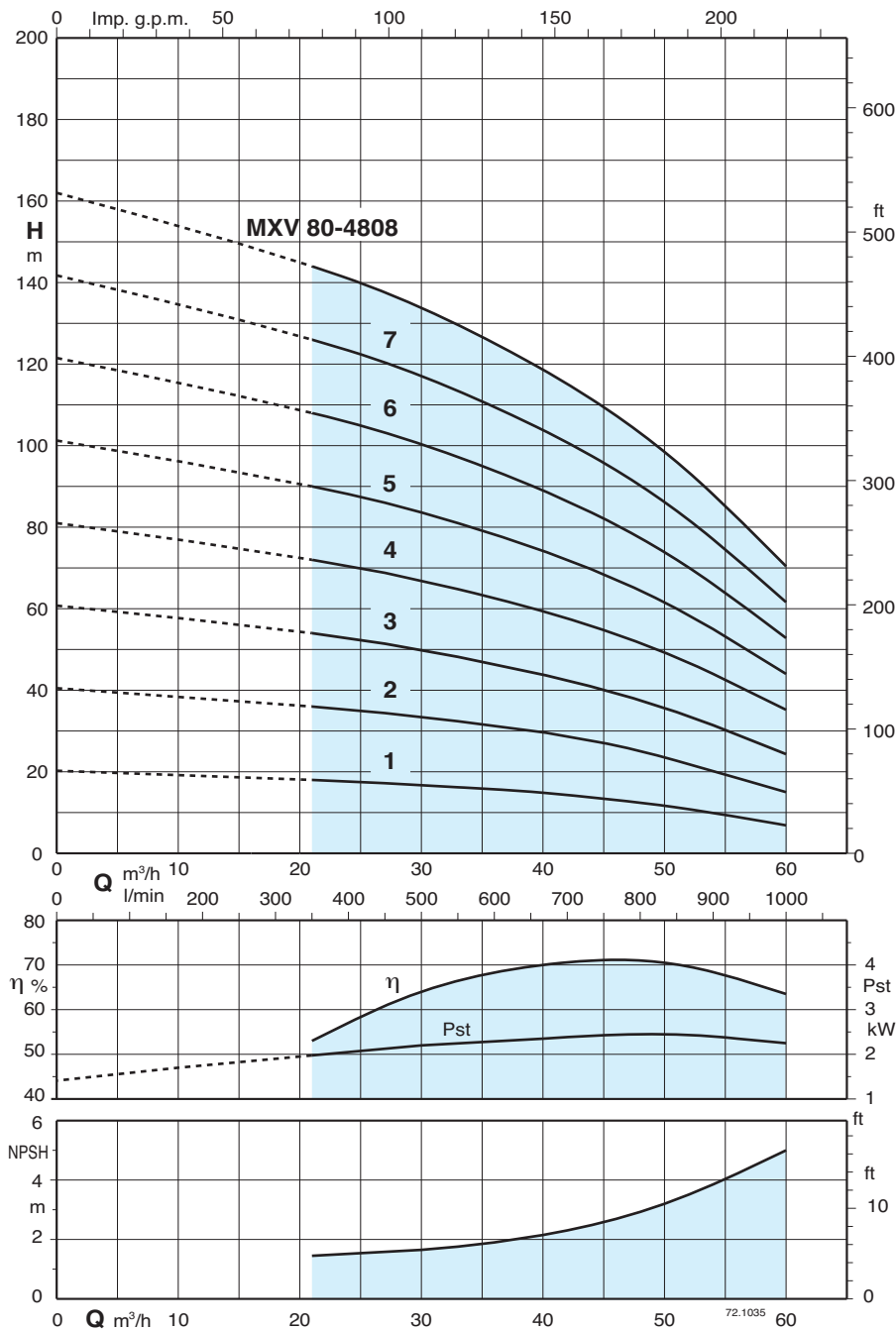
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V		400 V		Motor power		Q m³/h l/min	0	15	21	24	27	30	33	36	39	44
	A*	A*	A*	A*	kW	HP											
MXV 65-3202/D			9,6		4	5,5	H m	37	34	32	31	30	29	27	24,5	22	17
MXV 65-3203/C			10,9		5,5	7,5		55,5	51	49	47,5	46	43,5	40,5	37	33,5	25,5
MXV 65-3204/C			14,3		7,5	10		75	69	65,5	63,5	61	58,5	54,5	50	45	35
MXV 65-3205/D			21,5		11	15		93,5	86	82	79,5	77	73	68	62,5	56,5	44
MXV 65-3206/D			21,5		11	15		112	103	98,5	95,5	92	87	82	75	67,5	52,5
MXV 65-3207/D			27,3		15	20		131	121	115	111	107	102	95,5	87,5	79	61,5
MXV 65-3208/D			27,3		15	20		150	138	131	127	123	116	109	100	90	70
MXV 65-3209/E			34		18,5	25		168	155	148	143	138	130	122	112	101	79
MXV 65-3210/E			34		18,5	25		187	172	164	159	154	145	136	125	112	87,5
MXV 65-3212/D			41		22	30		225	207	197	191	185	174	163	150	135	105

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

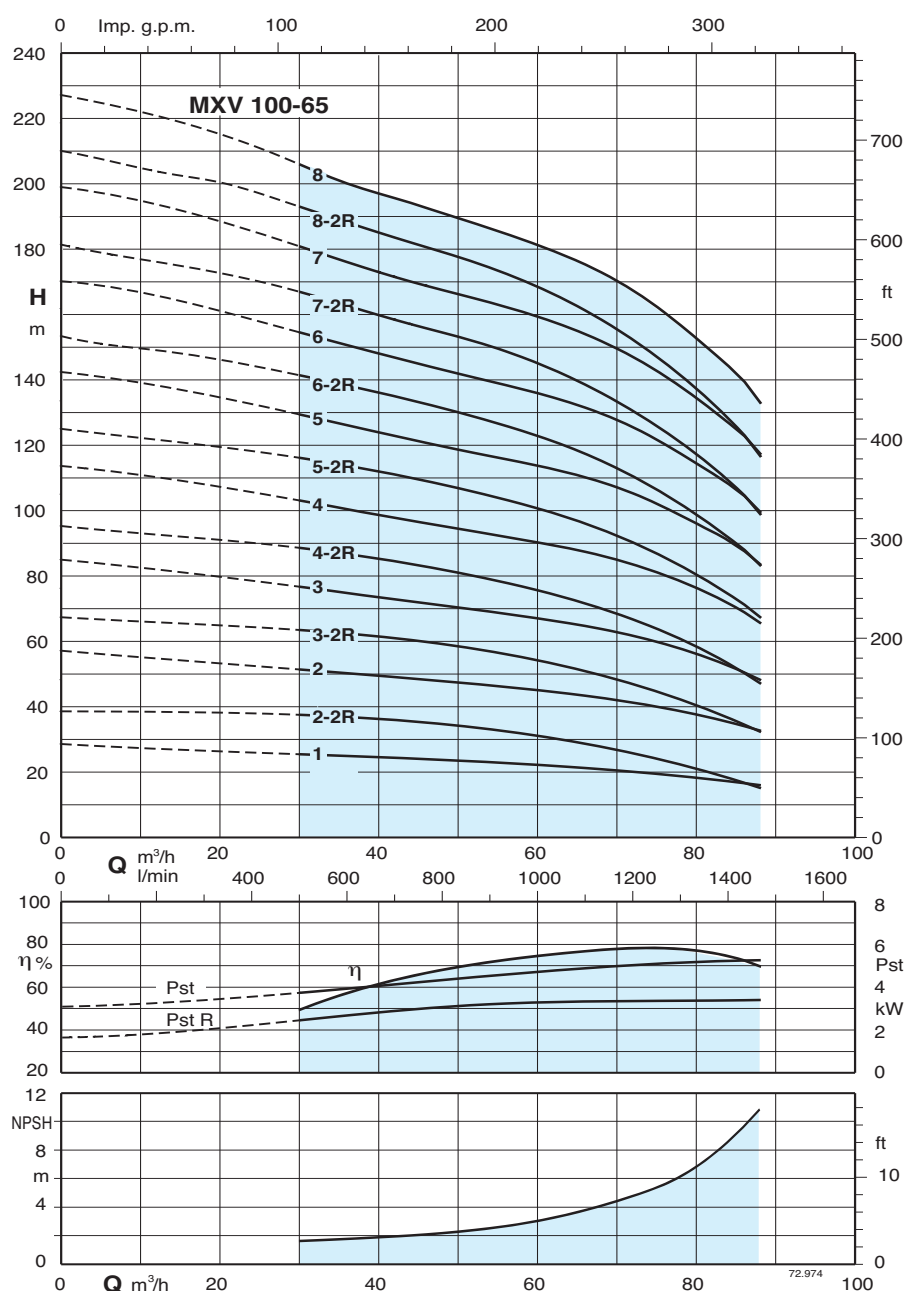
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	230 V		400 V		Motor power		Q m³/h l/min	0	21	27	33	39	45	48	51	54	60
	A*	A*	kW	HP				0	350	450	550	650	750	800	850	900	1000
MXV 80-4801/D		9,6	4	5,5	H m	20	18	17	16	15	13	12	10,7	9,5	7		
MXV 80-4802/C		10,9	5,5	7,5		40,5	36	34,5	32,5	29,5	26,5	24,5	22	20	15,5		
MXV 80-4803/C		14,3	7,5	10		61	54	51	48	44	40	37	34	31	24,5		
MXV 80-4804/D		21,5	11	15		81	72	69	65	60	55	51,5	48	44	35		
MXV 80-4805/D		27,3	15	20		101	90	86	81	75	68,5	64,5	60	55	44		
MXV 80-4806/D		27,3	15	20		121	108	103	97	90	82	77,5	72	66	53		
MXV 80-4807/E		34	18,5	25		142	126	120	113	105	96	90	84	77	61,5		
MXV 80-4808/D		41	22	30		162	144	137	129	120	109	103	96	88	70,5		

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

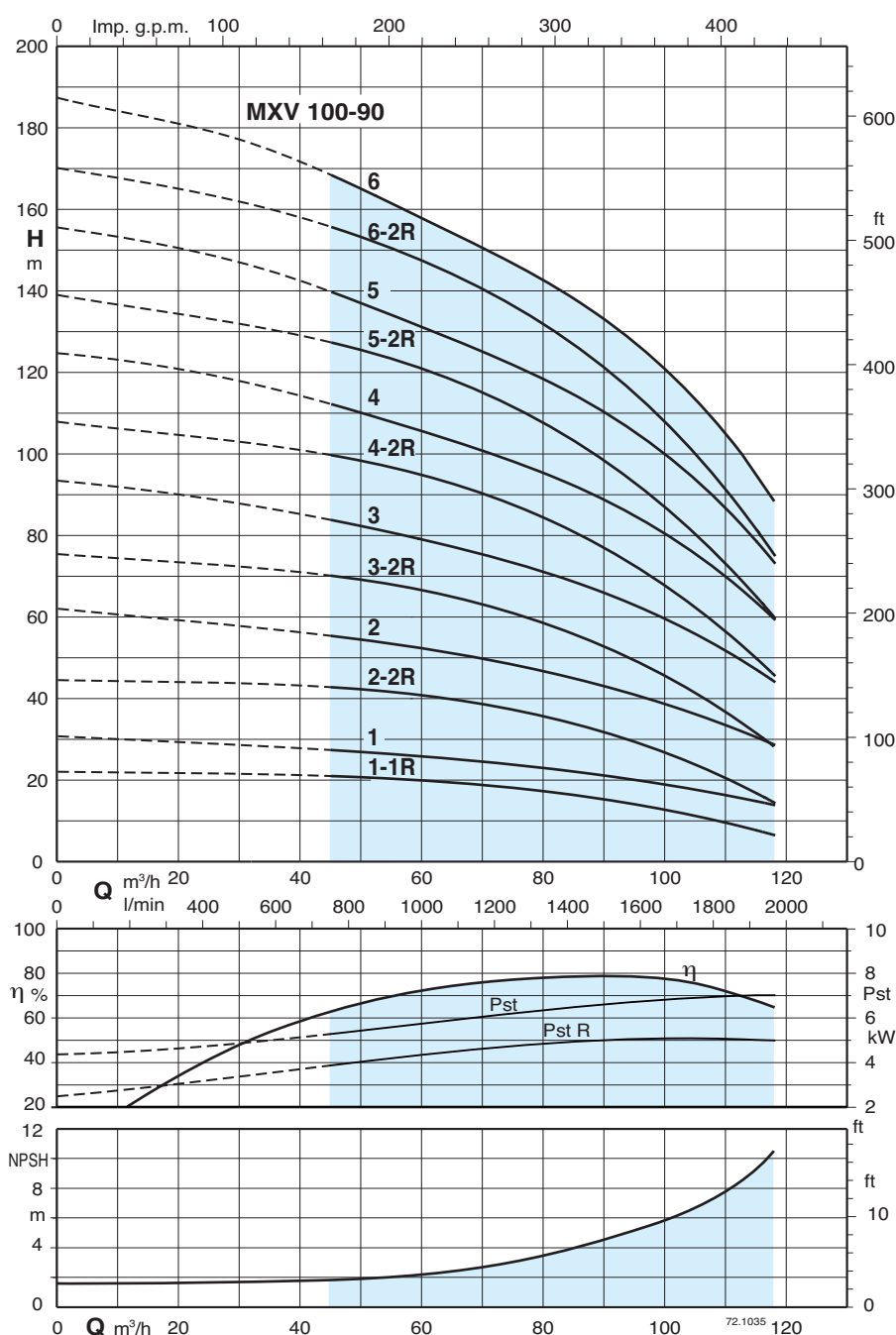
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$.

P_{st} = Power with reference to one stage.

A* Calpeda motor currents

Pump type	400 V A*	Motor power		Q m^3/h l/min	0	30	36	42	45	54	60	72	78	85
		kW	HP		0	500	600	700	750	900	1000	1200	1300	1417
MXV(L) 100-6501	10,9	5,5	7,5	H m	28	25	24,5	24	23,5	22,5	22	20	18,5	16,5
MXV(L) 100-6502-2R	14,3	7,5	10		39	37,5	36,5	35,5	35	33	31	25	22	17,5
MXV(L) 100-6502	21,5	11	15		56,5	51	49,5	48,5	48	46	45	41	38,5	34,5
MXV(L) 100-6503-2R	27,3	15	20		67,5	63,5	62	60,5	59,5	56,5	54	46,5	42	35,5
MXV(L) 100-6503/A	34	18,5	25		84,5	76	74	72,5	71,5	69	67	61,5	57,5	51,5
MXV(L) 100-6504-2R/A	34	18,5	25		95,5	88,5	86	84	83	79	75,5	66	60,5	52
MXV(L) 100-6504	41	22	30		113	102	100	97,5	96,5	92,5	90,5	83	78	70
MXV(L) 100-6505-2R	54	30	40		125	116	113	110	109	104	101	90	83	72,5
MXV(L) 100-6505	54	30	40		142	129	125	122	121	116	114	105	98,5	88,5
MXV(L) 100-6506-2R	54	30	40		153	141	137	134	133	127	123	110	102	89,5
MXV(L) 100-6506	64	37	50		170	154	150	147	145	139	136	125	117	105
MXV(L) 100-6507-2R	64	37	50		181	166	162	158	156	150	145	130	120	106
MXV(L) 100-6507	77	45	60		199	180	175	172	169	163	159	147	138	124
MXV(L) 100-6508-2R	77	45	60		210	193	188	184	181	174	168	152	141	125
MXV(L) 100-6508	77	45	60		227	206	200	196	193	186	181	167	157	141

Characteristic curves and performance $n \approx 2900$ rpm



Test results with clean cold water, without gas content.

A safety margin of + 0.5 m is recommended for the NPSH value.

Tolerances in accordance with UNI EN ISO 9906:2012

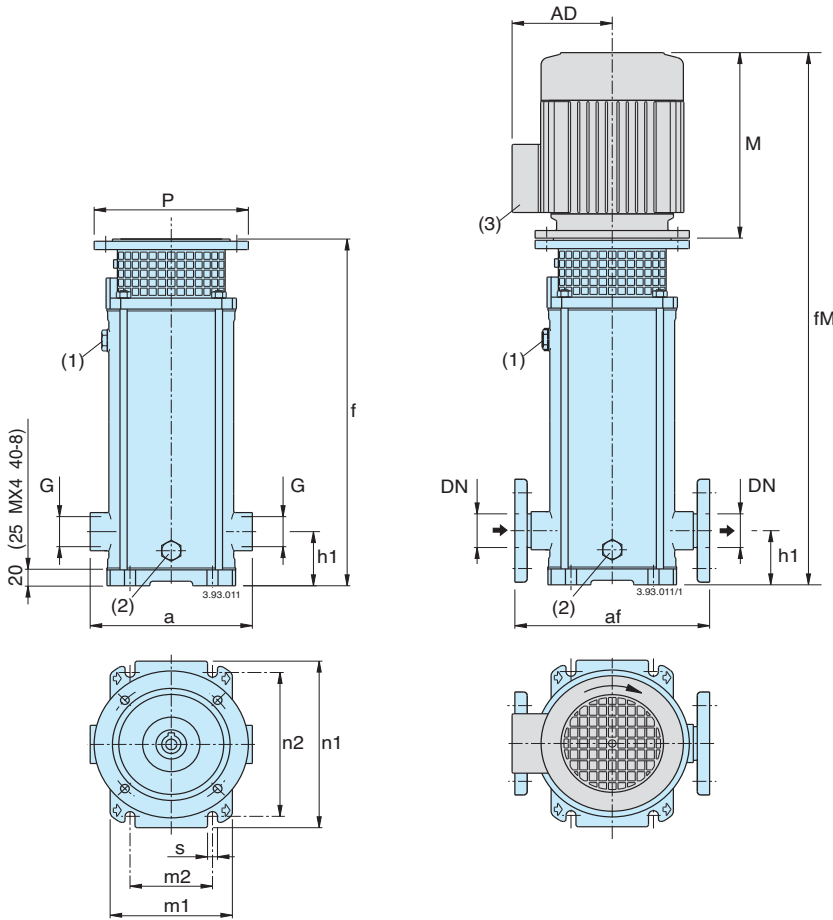
Head and power values valid for liquids with density $\rho = 1,0 \text{ kg/dm}^3$ and kinematic viscosity $\nu = \max 20 \text{ mm}^2/\text{sec}$.

Pst = Power with reference to one stage.

A* Calpeda motor currents

Pump type	400 V A*	Motor power		Q m^3/h l/min	0	45	54	60	72	78	85	96	108	118
		kW	HP		0	750	900	1000	1200	1300	1417	1600	1800	1967
MXV(L) 100-9001-1R	10,9	5,5	7,5	H m	22	21	20,5	20	19	17,5	16,5	13,5	10	6,5
MXV(L) 100-9001	14,3	7,5	10		30,5	27,5	26	25,5	24	23,5	22	20	17	13,5
MXV(L) 100-9002-2R	21,5	11	15		44,5	43	42	41	38,5	36,5	34	28,5	21,5	15
MXV(L) 100-9002	27,3	15	20		62	55,5	53	51,5	49	47,5	45	41	35	28,5
MXV(L) 100-9003-2R/A	34	18,5	25		75,5	70,5	68	66,5	62,5	59,5	56	48,5	38,5	28,5
MXV(L) 100-9003	41	22	30		93,5	84	80,5	78	74	72	69	62,5	53,5	44
MXV(L) 100-9004-2R	54	30	40		108	100	97	94,5	89	85,5	81	71,5	59	46
MXV(L) 100-9004	54	30	40		125	112	108	105	99,5	96,5	92,5	84	72	60
MXV(L) 100-9005-2R	64	37	50		139	127	123	120	113	109	103	92	76	60
MXV(L) 100-9005	64	37	50		156	140	134	130	123	120	114	104	89	74
MXV(L) 100-9006-2R	77	45	60		170	156	150	146	138	134	127	113	94,5	75,5
MXV(L) 100-9006	77	45	60		188	169	161	157	149	144	138	126	108	89,5

Dimensions and weights



Counterflanges in stainless steel

DN	G ISO 228
25	1
32	1 1/4
40	1 1/2

Flanges EN 1092-1 PN 25 - 40

DN	DE	DK	DG	Holes	
				N.	Ø
25	115	85	65	4	14
32	140	100	76	4	19
40	150	110	84	4	19

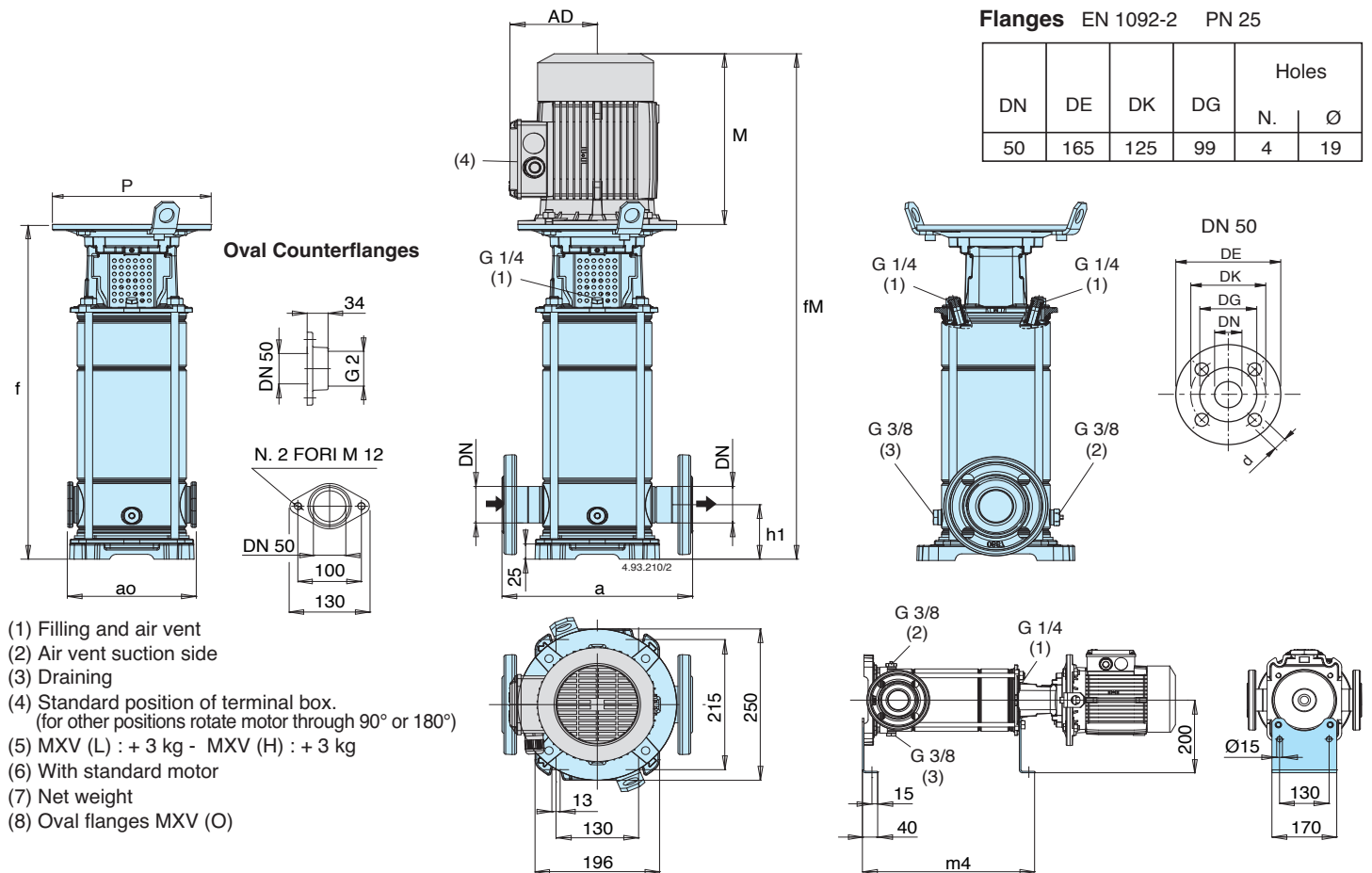
- (1) Filling
(2) Draining
(3) Standard position of terminal box.
(for other positions rotate motor through 90° or 180°)

Pump	Motor			MXV (G) threaded ports		MXV (F) flanged ports		mm											without motor	with motor
								h1	f	(5) M	fM	P	(5) AD	n1	n2	m1	m2	s	MXV (G) (4) kg(6)	(5) kg(6)
	kW	HP		G ISO 228	a	DN	af													
MXV 25-204/C	0,75	1	M80 V1	G1	215	25	250	75	372	255	627	200	127,5	210	180	150	100	12,5	18	30,2
MXV 25-205/C	0,75	1	M80 V1	G1	215	25	250	75	396	255	651	200	127,5	210	180	150	100	12,5	19	31,2
MXV 25-206/D	1,1	1,5	M80 V1	G1	215	25	250	75	420	255	675	200	127,5	210	180	150	100	12,5	20	33,3
MXV 25-207/D	1,1	1,5	M80 V1	G1	215	25	250	75	444	255	699	200	127,5	210	180	150	100	12,5	21	34,3
MXV 25-208/D	1,5	2	M90 V1	G1	215	25	250	75	478	255	733	200	127,5	210	180	150	100	12,5	22	37,2
MXV 25-210/D	1,5	2	M90 V1	G1	215	25	250	75	526	255	781	200	127,5	210	180	150	100	12,5	23	38,2
MXV 25-212/D	2,2	3	M90 V1	G1	215	25	250	75	574	295	869	200	127,5	210	180	150	100	12,5	25	43,1
MXV 25-214/D	2,2	3	M90 V1	G1	215	25	250	75	622	295	917	200	127,5	210	180	150	100	12,5	26	44,1
MXV 25-216/C	3	4	M100 V1	G1	215	25	250	75	680	311	991	250	137,5	210	180	150	100	12,5	29	54,6
MXV 25-218/C	3	4	M100 V1	G1	215	25	250	75	728	311	1039	250	137,5	210	180	150	100	12,5	31	56,6
MXV 25-220/C	3	4	M100 V1	G1	215	25	250	75	776	311	1087	250	137,5	210	180	150	100	12,5	32	57,6
MXV 32-404/D	1,1	1,5	M80 V1	G 1 1/4	215	32	250	75	372	255	627	200	127,5	210	180	150	100	12,5	19	31,2
MXV 32-405/D	1,1	1,5	M80 V1	G 1 1/4	215	32	250	75	396	255	651	200	127,5	210	180	150	100	12,5	20	32,2
MXV 32-406/D	1,5	2	M90 V1	G 1 1/4	215	32	250	75	430	255	685	200	127,5	210	180	150	100	12,5	21	36,2
MXV 32-407/D	1,5	2	M90 V1	G 1 1/4	215	32	250	75	454	255	709	200	127,5	210	180	150	100	12,5	22	37,2
MXV 32-408/D	2,2	3	M90 V1	G 1 1/4	215	32	250	75	478	295	773	200	127,5	210	180	150	100	12,5	23	41,1
MXV 32-410/D	2,2	3	M90 V1	G 1 1/4	215	32	250	75	526	295	821	200	127,5	210	180	150	100	12,5	24	42,1
MXV 32-412/C	3	4	M100 V1	G 1 1/4	215	32	250	75	584	311	895	250	137,5	210	180	150	100	12,5	27	52,6
MXV 32-414/C	3	4	M100 V1	G 1 1/4	215	32	250	75	632	311	943	250	137,5	210	180	150	100	12,5	29	54,6
MXV 32-416/D	4	5,5	M112 V1	G 1 1/4	215	32	250	75	680	311	991	250	137,5	210	180	150	100	12,5	30	57,8
MXV 32-418/D	4	5,5	M112 V1	G 1 1/4	215	32	250	75	728	311	1039	250	137,5	210	180	150	100	12,5	31	58,8
MXV 40-804/D	1,5	2	M90 V1	G 1 1/2	225	40	280	80	411	255	666	200	127,5	246	215	190	130	14	21	36,2
MXV 40-805/D	2,2	3	M90 V1	G 1 1/2	225	40	280	80	441	295	736	200	127,5	246	215	190	130	14	22	40,1
MXV 40-806/D	2,2	3	M90 V1	G 1 1/2	225	40	280	80	471	295	766	200	127,5	246	215	190	130	14	23	41,1
MXV 40-807/C	3	4	M100 V1	G 1 1/2	225	40	280	80	511	311	822	250	137,5	246	215	190	130	14	25	50,6
MXV 40-808/C	3	4	M100 V1	G 1 1/2	225	40	280	80	541	311	852	250	137,5	246	215	190	130	14	26	51,6
MXV 40-810/D	4	5,5	M112 V1	G 1 1/2	225	40	280	80	601	311	912	250	137,5	246	215	190	130	14	28	55,8
MXV 40-811/D	4	5,5	M112 V1	G 1 1/2	225	40	280	80	631	311	942	250	137,5	246	215	190	130	14	29	56,8
MXV 40-813/C	5,5	7,5	M132 V1	G 1 1/2	225	40	280	80	711	339	1050	300	159,5	246	215	190	130	14	35	77,3
MXV 40-815/C	5,5	7,5	M132 V1	G 1 1/2	225	40	280	80	771	339	1110	300	159,5	246	215	190	130	14	36	78,3
MXV 40-817/C	7,5	10	M132 V1	G 1 1/2	225	40	280	80	831	339	1170	300	159,5	246	215	190	130	14	38	85,7
MXV 40-819/C	7,5	10	M132 V1	G 1 1/2	225	40	280	80	891	339	1230	300	159,5	246	215	190	130	14	39	86,7

(4) MXV (F) = MXV (G) + 1 kg (5) With standard motor

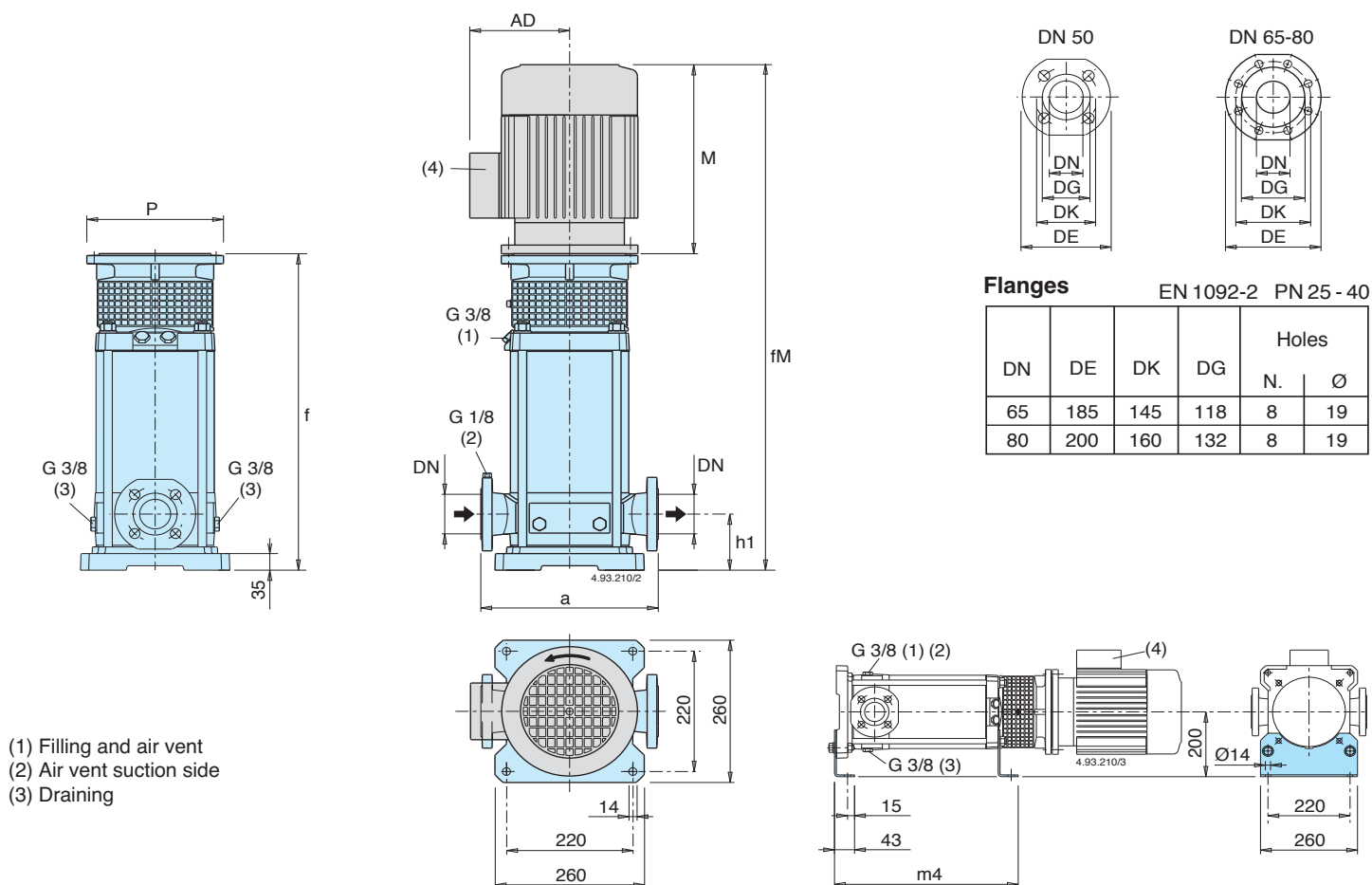
(6) Net weight

Dimensions and weights



Pump	Motor			mm										without motor		with motor	
				DN	a	(8) ao	h1	f	(6) M	fM	P	(6) AD	m4	MXV (5) kg (7)	(8)	(6) kg (7)	(8)
MXV 50-1501	1,1	1,5	M80 V1	50	300	200	90	438	255	693	200	127,5	349	27,4	24,6	40,7	37,9
MXV 50-1502	1,5	2	M90 V1	50	300	200	90	438	295	733	200	127,5	349	27,9	25,1	43,1	40,3
MXV 50-1503	2,2	3	M90 V1	50	300	200	90	486	295	781	200	127,5	397	29,4	26,6	47,5	44,7
MXV 50-1504	3	4	M112 V1	50	300	200	90	534	311	845	250	137,5	445	31,8	29,0	57,4	54,6
MXV 50-1505	4	5,5	M112 V1	50	300	200	90	582	311	893	250	137,5	493	33,3	30,5	61,1	58,3
MXV 50-1506	5,5	7,5	M132 V1	50	300	200	90	693	339	1032	300	159,5	541	44,3	41,5	86,6	83,8
MXV 50-1507	5,5	7,5	M132 V1	50	300	200	90	741	339	1080	300	159,5	589	45,7	42,9	88,0	85,2
MXV 50-1508	7,5	10	M132 V1	50	300	200	90	789	339	1128	300	159,5	637	47,2	44,4	94,9	92,1
MXV 50-1509	7,5	10	M132 V1	50	300	200	90	837	339	1176	300	159,5	685	48,6	45,8	96,3	93,5
MXV 50-1510	7,5	10	M132 V1	50	300	200	90	885	339	1224	300	159,5	733	50,1	47,3	97,8	95,0
MXV 50-1511	9,2	12,5	M160 V1	50	300		90	963	413	1376	350	186	781	57,8		115,8	
MXV 50-1512	9,2	12,5	M160 V1	50	300		90	1011	413	1424	350	186	829	59,3		117,3	
MXV 50-1513	11	15	M160 V1	50	300		90	1059	459	1518	350	186	877	60,7		136,7	
MXV 50-1514	11	15	M160 V1	50	300		90	1107	459	1566	350	186	925	62,2		138,2	
MXV 50-1515	11	15	M160 V1	50	300		90	1155	459	1614	350	186	973	63,7		139,7	
MXV 50-1516	15	20	M160 V1	50	300		90	1203	484	1687	350	186	1021	65,1		167,1	
MXV 50-1517	15	20	M160 V1	50	300		90	1251	484	1735	350	186	1069	66,6		168,6	
MXV 50-2001	1,1	1,5	M80 V1	50	300	200	90	438	255	693	200	127,5	349	27,4	24,6	40,7	37,9
MXV 50-2002	2,2	3	M90 V1	50	300	200	90	438	295	733	200	127,5	349	27,9	25,1	46,0	43,2
MXV 50-2003	3	4	M100 V1	50	300	200	90	486	311	797	250	137,5	397	30,3	27,6	55,9	53,2
MXV 50-2004	4	5,5	M112 V1	50	300	200	90	521	311	832	250	137,5	445	31,8	29,0	59,6	56,8
MXV 50-2005	5,5	7,5	M132 V1	50	300	200	90	645	339	984	300	159,5	493	42,8	40,0	85,1	82,3
MXV 50-2006	7,5	10	M132 V1	50	300	200	90	693	339	1032	300	159,5	541	44,3	41,5	92,0	89,2
MXV 50-2007	7,5	10	M132 V1	50	300	200	90	741	339	1080	300	159,5	589	45,7	42,9	93,4	90,6
MXV 50-2008	9,2	12,5	M160 V1	50	300	200	90	819	413	1232	350	186	637	53,5	50,7	111,5	
MXV 50-2009	9,2	12,5	M160 V1	50	300	200	90	867	413	1280	350	186	685	54,9	52,1	112,9	
MXV 50-2010	11	15	M160 V1	50	300	200	90	915	459	1374	350	186	733	56,4	53,6	132,4	129,6
MXV 50-2011	11	15	M160 V1	50	300		90	963	459	1422	350	186	781	57,8		133,8	
MXV 50-2012	15	20	M160 V1	50	300		90	1011	484	1495	350	186	829	59,3		161,3	
MXV 50-2013	15	20	M160 V1	50	300		90	1059	484	1543	350	186	877	60,7		162,7	
MXV 50-2014	15	20	M160 V1	50	300		90	1107	484	1591	350	186	925	62,2		164,2	
MXV 50-2015	15	20	M160 V1	50	300		90	1155	484	1639	350	186	973	63,7		165,7	
MXV 50-2016	18,5	25	M160 V1	50	300		90	1203	538	1741	350	206	1021	65,1		-	
MXV 50-2017	18,5	25	M160 V1	50	300		90	1251	538	1789	350	206	1069	66,6		-	

Dimensions and weights



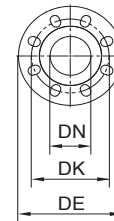
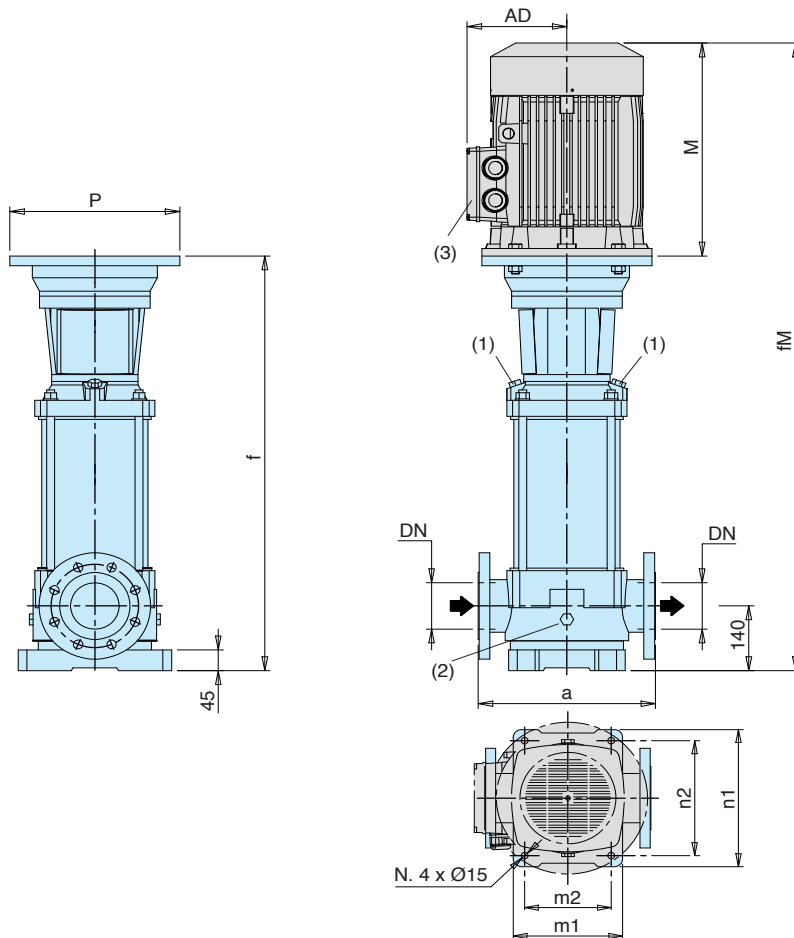
Pump	Motor			mm									without motor MXV (5) kg (7)	with motor (6) kg (7)
				DN	a	h1	f	(6) M	fM	P	(6) AD	m4		
MXV 65-3202/D	4	5,5	M112 V1	65	320	105	407	311	718	250	137,5	334	45	72,8
MXV 65-3203/C	5,5	7,5	M132 V1	65	320	105	473	339	812	300	159,5	380	51	93,3
MXV 65-3204/C	7,5	10	M132 V1	65	320	105	519	339	858	300	159,5	426	53	100,7
MXV 65-3205/D	11	15	M160 V1	65	320	105	595	459	1054	350	186	472	62	138
MXV 65-3206/D	11	15	M160 V1	65	320	105	641	459	1100	350	186	518	64	140
MXV 65-3207/D	15	20	M160 V1	65	320	105	687	484	1171	350	186	564	66	168
MXV 65-3208/D	15	20	M160 V1	65	320	105	733	484	1217	350	186	610	68	170
MXV 65-3209/E	18,5	25	M160 V1	65	320	105	779	538	1290	350	206	656	70	-
MXV 65-3210/E	18,5	25	M160 V1	65	320	105	825	538	1363	350	206	702	72	-
MXV 65-3212/D	22	30	M180 V1	65	320	105	917	538	1455	350	206	794	75	204
MXV 80-4801/D	4	5,5	M112 V1	80	320	105	411	311	722	250	137,5	338	45	72,8
MXV 80-4802/C	5,5	7,5	M132 V1	80	320	105	466	339	805	300	159,5	373	51	93,3
MXV 80-4803/C	7,5	10	M132 V1	80	320	105	527	339	866	300	159,5	434	54	101,7
MXV 80-4804/D	11	15	M160 V1	80	320	105	618	459	1077	350	186	495	64	140
MXV 80-4805/D	15	20	M160 V1	80	320	105	680	484	1164	350	186	557	66	168
MXV 80-4806/D	15	20	M160 V1	80	320	105	741	484	1225	350	186	618	69	171
MXV 80-4807/E	18,5	25	M160 V1	80	320	105	802	538	1363	350	206	679	72	-
MXV 80-4808/D	22	30	M180 V1	80	320	105	864	538	1402	350	206	741	74	203

(4) Standard position of terminal box. (for other positions rotate motor through 90° or 180°) (5) MXV (L) : + 3 kg
MXV (H) : + 3 kg

(6) With standard motor

(7) Net weight

Dimensions and weights



Flanges

EN 1092-2

DN	PN	DE	DK	Holes	
				N.	Ø
100	16	230	180	8	19
100	25	255	190	8	23

- (1) Filling and air vent
(2) Draining

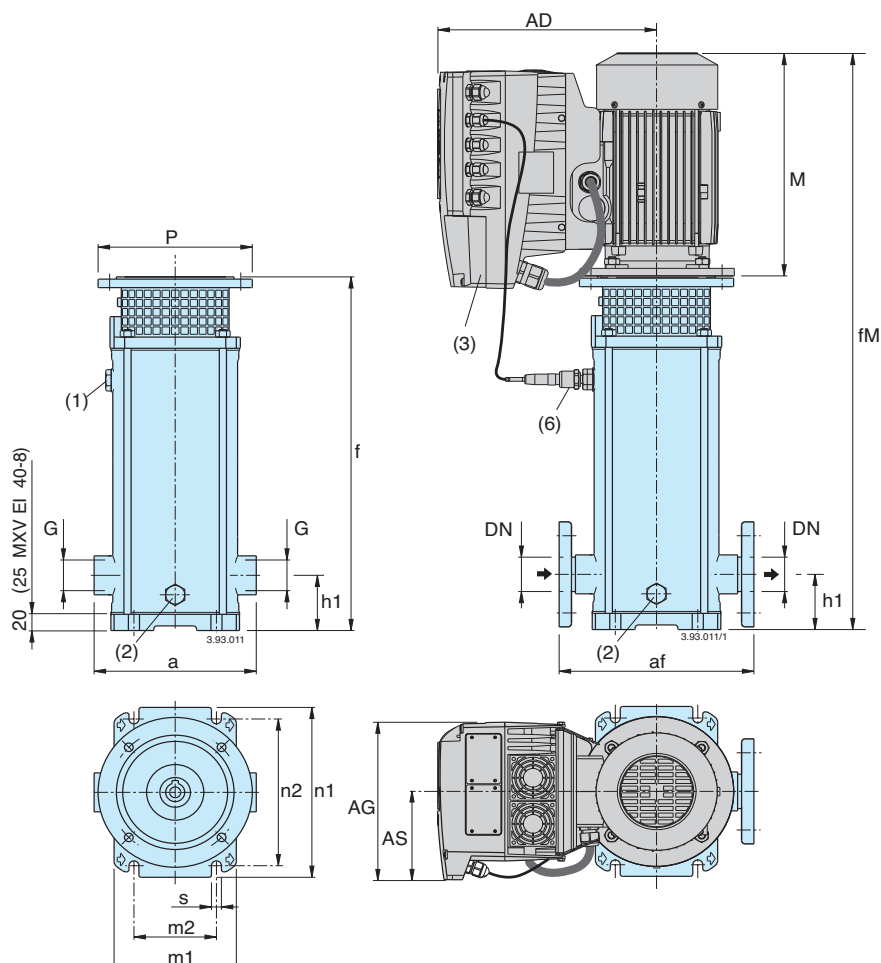
Pump	Motor				mm										without motor	with motor
	kW	HP	PN	Size	a	f	n1	n2	m1	m2	(4) M	fm	P	AD	MXV kg (5)	(4) kg (5)
MXV 100-6501	5,5	7,5	16	M132 V1	365	737	316	265	240	190	339	1076	300	159,5	81	123,3
MXV 100-6502-2R	7,5	10	16	M132 V1	365	829	316	265	240	190	339	1168	300	159,5	85,5	127,8
MXV 100-6502	11	15	16	M160 V1	365	849	316	265	240	190	459	1308	350	186	88,5	164,5
MXV 100-6503-2R	15	20	16	M160 V1	365	941	316	265	240	190	484	1425	350	186	93	195
MXV 100-6503/A	18,5	25	16	M160 V1	365	941	316	265	240	190	538	1479	350	206	93	-
MXV 100-6504-2R/A	18,5	25	16	M160 V1	365	1033	316	265	240	190	538	1571	350	206	97,5	-
MXV 100-6504	22	30	16	M180 V1	365	1033	316	265	240	190	538	1571	350	206	98	227
MXV 100-6505-2R	30	40	16	M200 V1	365	1131	316	265	240	190	611	1742	400	315	105,5	330,5
MXV 100-6505	30	40	16	M200 V1	365	1131	316	265	240	190	611	1742	400	315	105,5	330,5
MXV 100-6506-2R	30	40	16	M200 V1	365	1223	316	265	240	190	611	1834	400	315	110	335
MXV 100-6506	37	50	25	M200 V1	365	1223	316	265	240	190	611	1834	400	315	110	360
MXV 100-6507-2R	37	50	25	M200 V1	365	1315	316	265	240	190	611	1926	400	315	114,5	364,5
MXV 100-6507	45	60	25	M225 V1	365	1315	316	265	240	190	708	2023	450	338	117,5	432,5
MXV 100-6508-2R	45	60	25	M225 V1	365	1407	316	265	240	190	708	2115	450	338	122	437
MXV 100-6508	45	60	25	M225 V1	365	1407	316	265	240	190	708	2115	450	338	122	437
MXV 100-9001-1R	5,5	7,5	16	M132 V1	380	737	341	280	260	199	339	1076	300	159,5	82,5	124,8
MXV 100-9001	7,5	10	16	M132 V1	380	737	341	280	260	199	339	1076	300	159,5	82,5	124,8
MXV 100-9002-2R	11	15	16	M160 V1	380	849	341	280	260	199	459	1308	350	186	89	165
MXV 100-9002	15	20	16	M160 V1	380	849	341	280	260	199	484	1333	350	186	89	191
MXV 100-9003-2R/A	18,5	25	16	M160 V1	380	941	341	280	260	199	538	1479	350	206	93	-
MXV 100-9003	22	30	16	M180 V1	380	941	341	280	260	199	538	1479	350	206	93	222
MXV 100-9004-2R	30	40	16	M200 V1	380	1038	341	280	260	199	611	1649	400	315	100	325
MXV 100-9004	30	40	16	M200 V1	380	1038	341	280	260	199	611	1649	400	315	100	325
MXV 100-9005-2R	37	50	16	M200 V1	380	1131	341	280	260	199	611	1742	400	315	104	354
MXV 100-9005	37	50	16	M200 V1	380	1131	341	280	260	199	611	1742	400	315	104	354
MXV 100-9006-2R	45	60	25	M225 V1	380	1223	341	280	260	199	708	1931	450	338	110,5	425,5
MXV 100-9006	45	60	25	M225 V1	380	1223	341	280	260	199	708	1931	450	338	110,5	425,5

(3) Standard position of terminal box. (for other positions rotate motor through 90° or 180°)

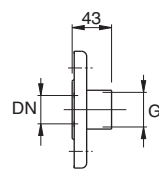
(4) With standard motor

(5) Net weight

Dimensions and weights



Counterflanges in stainless steel



DN	G ISO 228
25	1
32	1 1/4
40	1 1/2

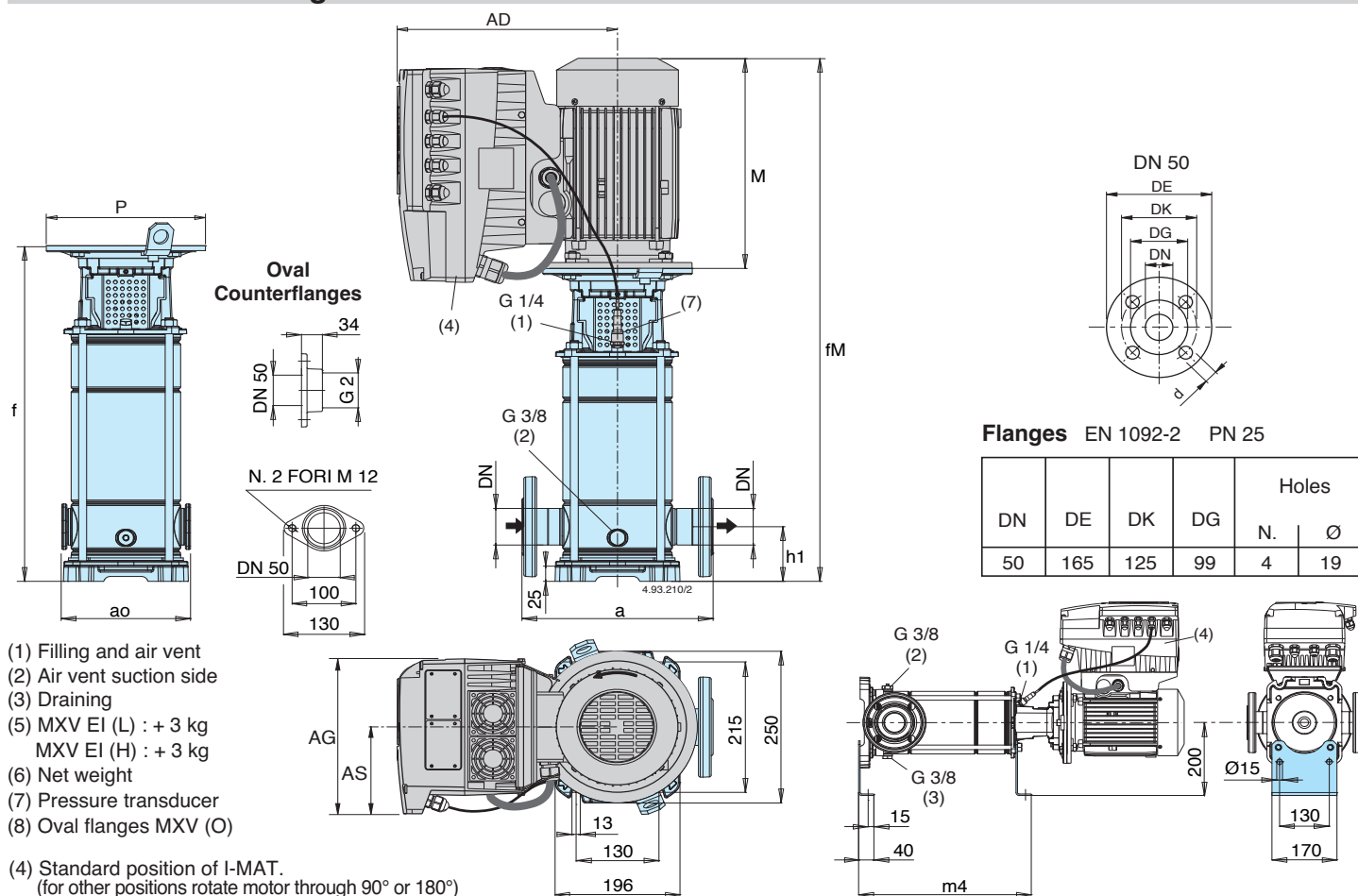
Flanges in accordance EN 1092-2 PN 25 - 40

DN	DE	DK	DG	Holes	
				N.	Ø
25	115	85	65	4	14
32	140	100	76	4	19
40	150	110	84	4	19

- (1) Filling
- (2) Draining
- (3) Standard position of I-MAT
(for other positions rotate motor through 90° or 180°)
- (4) MXV EI (F) = MXV EI (G) + 1kg
- (5) Net weight
- (6) Pressure transducer

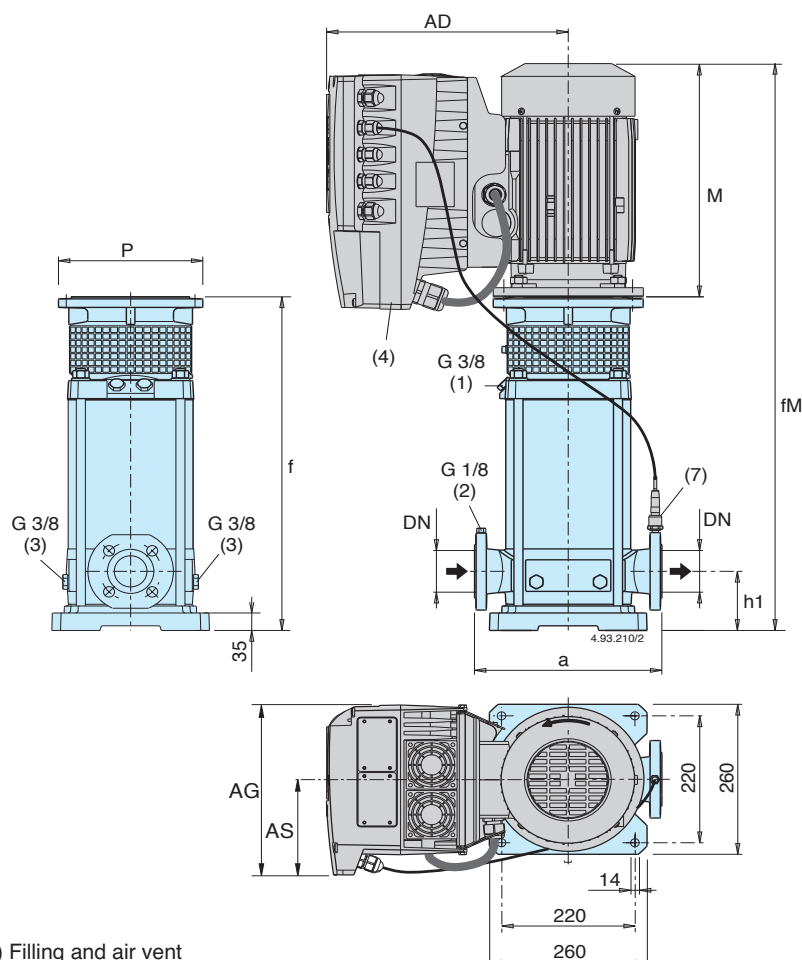
Pump	Motor			MXV EI (G) threaded ports		MXV EI (F) flanged ports		mm													MXV E (G) (4)
								h1	f	M	fM	P	AD	AG	AS	n1	n2	m1	m2	s	kg (5)
MXV EI 25-204/C	0,75	1	M80 V1	G1	215	25	250	75	372	255	627	200	286	190	105	210	180	150	100	12,5	36,6
MXV EI 25-205/C	0,75	1	M80 V1	G1	215	25	250	75	396	255	651	200	286	190	105	210	180	150	100	12,5	37,6
MXV EI 25-206/D	1,1	1,5	M80 V1	G1	215	25	250	75	420	255	675	200	286	190	105	210	180	150	100	12,5	39,7
MXV EI 25-207/D	1,1	1,5	M80 V1	G1	215	25	250	75	444	255	699	200	286	190	105	210	180	150	100	12,5	40,7
MXV EI 25-208/D	1,5	2	M90 V1	G1	215	25	250	75	478	255	733	200	286	190	105	210	180	150	100	12,5	43,8
MXV EI 25-210/D	1,5	2	M90 V1	G1	215	25	250	75	526	255	781	200	286	190	105	210	180	150	100	12,5	44,8
MXV EI 25-212/D	2,2	3	M90 V1	G1	215	25	250	75	574	295	869	200	286	210	118	210	180	150	100	12,5	50,6
MXV EI 25-214/D	2,2	3	M90 V1	G1	215	25	250	75	622	295	917	200	286	210	118	210	180	150	100	12,5	51,6
MXV EI 25-216/C	3	4	M100 V1	G1	215	25	250	75	680	311	991	250	294	210	118	210	180	150	100	12,5	62,1
MXV EI 25-218/C	3	4	M100 V1	G1	215	25	250	75	728	311	1039	250	294	210	118	210	180	150	100	12,5	64,1
MXV EI 25-220/C	3	4	M100 V1	G1	215	25	250	75	776	311	1087	250	294	210	118	210	180	150	100	12,5	65,1
MXV EI 32-404/D	1,1	1,5	M80 V1	G 1 1/4	215	32	250	75	372	255	627	200	286	190	105	210	180	150	100	12,5	37,6
MXV EI 32-405/D	1,1	1,5	M80 V1	G 1 1/4	215	32	250	75	396	255	651	200	286	190	105	210	180	150	100	12,5	38,6
MXV EI 32-406/D	1,5	2	M90 V1	G 1 1/4	215	32	250	75	430	255	685	200	286	190	105	210	180	150	100	12,5	42,8
MXV EI 32-407/D	1,5	2	M90 V1	G 1 1/4	215	32	250	75	454	255	709	200	286	190	105	210	180	150	100	12,5	43,8
MXV EI 32-408/D	2,2	3	M90 V1	G 1 1/4	215	32	250	75	478	295	773	200	286	210	118	210	180	150	100	12,5	48,6
MXV EI 32-410/D	2,2	3	M90 V1	G 1 1/4	215	32	250	75	526	295	821	200	286	210	118	210	180	150	100	12,5	49,6
MXV EI 32-412/C	3	4	M100 V1	G 1 1/4	215	32	250	75	584	311	895	250	294	210	118	210	180	150	100	12,5	60,1
MXV EI 32-414/C	3	4	M100 V1	G 1 1/4	215	32	250	75	632	311	943	250	294	210	118	210	180	150	100	12,5	62,1
MXV EI 32-416/D	4	5,5	M112 V1	G 1 1/4	215	32	250	75	680	311	991	250	294	210	118	210	180	150	100	12,5	65,8
MXV EI 32-418/D	4	5,5	M112 V1	G 1 1/4	215	32	250	75	728	311	1039	250	294	210	118	210	180	150	100	12,5	66,8
MXV EI 40-804/D	1,5	2	M90 V1	G 1 1/2	225	40	280	80	411	255	666	200	286	190	105	246	215	190	130	14	42,8
MXV EI 40-805/D	2,2	3	M90 V1	G 1 1/2	225	40	280	80	441	295	736	200	286	210	118	246	215	190	130	14	47,6
MXV EI 40-806/D	2,2	3	M90 V1	G 1 1/2	225	40	280	80	471	295	766	200	286	210	118	246	215	190	130	14	48,6
MXV EI 40-807/C	3	4	M100 V1	G 1 1/2	225	40	280	80	511	311	822	250	294	210	118	246	215	190	130	14	58,6
MXV EI 40-808/C	3	4	M100 V1	G 1 1/2	225	40	280	80	541	311	852	250	294	210	118	246	215	190	130	14	59,6
MXV EI 40-810/D	4	5,5	M112 V1	G 1 1/2	225	40	280	80	601	311	912	250	294	210	118	246	215	190	130	14	63,8
MXV EI 40-811/D	4	5,5	M112 V1	G 1 1/2	225	40	280	80	631	311	942	250	294	210	118	246	215	190	130	14	64,8
MXV EI 40-813/C	5,5	7,5	M132 V1	G 1 1/2	225	40	280	80	711	339	1050	300	321	210	118	246	215	190	130	14	85,3
MXV EI 40-815/C	5,5	7,5	M132 V1	G 1 1/2	225	40	280	80	771	339	1110	300	321	210	118	246	215	190	130	14	86,3
MXV EI 40-817/C	7,5	10	M132 V1	G 1 1/2	225	40	280	80	831	339	1170	300	368	281	153	246	215	190	130	14	100,5
MXV EI 40-819/C	7,5	10	M132 V1	G 1 1/2	225	40	280	80	891	339	1230	300	368	281	153	246	215	190	130	14	101,5

Dimensions and weights

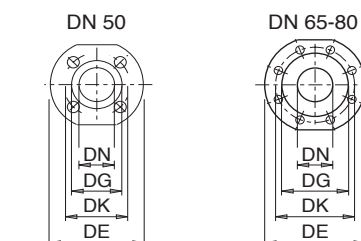


Pump	Motor			mm												(5) kg (6)	
				DN	a	(8) ao	h1	f	M	fM	P	AD	AG	AS	m4	(8)	
MXV EI 50-1501	1,1	1,5	M80 V1	50	300	200	90	438	255	693	200	286	190	105	349	47,1	44,3
MXV EI 50-1502	1,5	2	M90 V1	50	300	200	90	438	295	733	200	286	190	105	349	49,7	46,9
MXV EI 50-1503	2,2	3	M90 V1	50	300	200	90	486	295	781	200	286	210	118	397	54,5	51,7
MXV EI 50-1504	3	4	M112 V1	50	300	200	90	534	311	845	250	294	210	118	445	64,9	62,1
MXV EI 50-1505	4	5,5	M112 V1	50	300	200	90	582	311	893	250	294	210	118	493	69,1	66,3
MXV EI 50-1506	5,5	7,5	M132 V1	50	300	200	90	693	339	1032	300	321	210	118	541	94,6	91,8
MXV EI 50-1507	5,5	7,5	M132 V1	50	300	200	90	741	339	1080	300	321	210	118	589	96,0	93,2
MXV EI 50-1508	7,5	10	M132 V1	50	300	200	90	789	339	1128	300	368	281	153	637	109,7	106,9
MXV EI 50-1509	7,5	10	M132 V1	50	300	200	90	837	339	1176	300	368	281	153	685	111,1	108,3
MXV EI 50-1510	7,5	10	M132 V1	50	300	200	90	885	339	1224	300	368	281	153	733	112,6	109,8
MXV EI 50-1511	9,2	12,5	M160 V1	50	300		90	963	413	1376	350	393	281	153	781	130,6	
MXV EI 50-1512	9,2	12,5	M160 V1	50	300		90	1011	413	1424	350	393	281	153	829	132,1	
MXV EI 50-1513	11	15	M160 V1	50	300		90	1059	459	1518	350	393	281	153	877	151,5	
MXV EI 50-1514	11	15	M160 V1	50	300		90	1107	459	1566	350	393	281	153	925	153,0	
MXV EI 50-1515	11	15	M160 V1	50	300		90	1155	459	1614	350	393	281	153	973	154,5	
MXV EI 50-1516	15	20	M160 V1	50	300		90	1203	484	1687	350	471	350	190	1021	202,1	
MXV EI 50-1517	15	20	M160 V1	50	300		90	1251	484	1735	350	471	350	190	1069	203,6	
MXV EI 50-2001	1,1	1,5	M80 V1	50	300	200	90	438	255	693	200	286	190	105	349	47,1	44,3
MXV EI 50-2002	2,2	3	M90 V1	50	300	200	90	438	295	733	200	286	210	118	349	53,0	50,2
MXV EI 50-2003	3	4	M100 V1	50	300	200	90	486	311	797	250	294	210	118	397	63,4	60,7
MXV EI 50-2004	4	5,5	M112 V1	50	300	200	90	521	311	832	250	294	210	118	445	67,6	64,8
MXV EI 50-2005	5,5	7,5	M132 V1	50	300	200	90	645	339	984	300	321	210	118	493	93,1	90,3
MXV EI 50-2006	7,5	10	M132 V1	50	300	200	90	693	339	1032	300	368	281	153	541	106,8	104,0
MXV EI 50-2007	7,5	10	M132 V1	50	300	200	90	741	339	1080	300	368	281	153	589	108,2	105,4
MXV EI 50-2008	9,2	12,5	M160 V1	50	300	200	90	819	413	1232	350	393	281	153	637	126,3	
MXV EI 50-2009	9,2	12,5	M160 V1	50	300	200	90	867	413	1280	350	393	281	153	685	127,7	
MXV EI 50-2010	11	15	M160 V1	50	300	200	90	915	459	1374	350	393	281	153	733	147,2	144,4
MXV EI 50-2011	11	15	M160 V1	50	300		90	963	459	1422	350	393	281	153	781	148,6	
MXV EI 50-2012	15	20	M160 V1	50	300		90	1011	484	1495	350	471	350	190	829	196,3	
MXV EI 50-2013	15	20	M160 V1	50	300		90	1059	484	1543	350	471	350	190	877	197,7	
MXV EI 50-2014	15	20	M160 V1	50	300		90	1107	484	1591	350	471	350	190	925	199,2	
MXV EI 50-2015	15	20	M160 V1	50	300		90	1155	484	1639	350	471	350	190	973	200,7	
MXV EI 50-2016	18,5	25	M160 V1	50	300		90	1203	538	1741	350	491	350	190	1021	207,1	
MXV EI 50-2017	18,5	25	M160 V1	50	300		90	1251	538	1789	350	491	350	190	1069	208,6	

Dimensions and weights

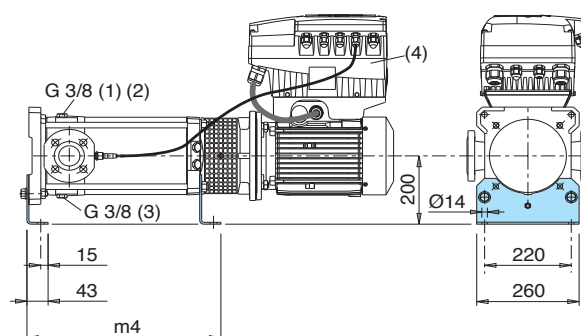


- (1) Filling and air vent
- (2) Air vent suction side
- (3) Draining
- (4) Standard position of I-MAT
(for other positions rotate motor through 90° or 180°)



Flanges in accordance
EN 1092-2 PN 25 - 40

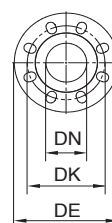
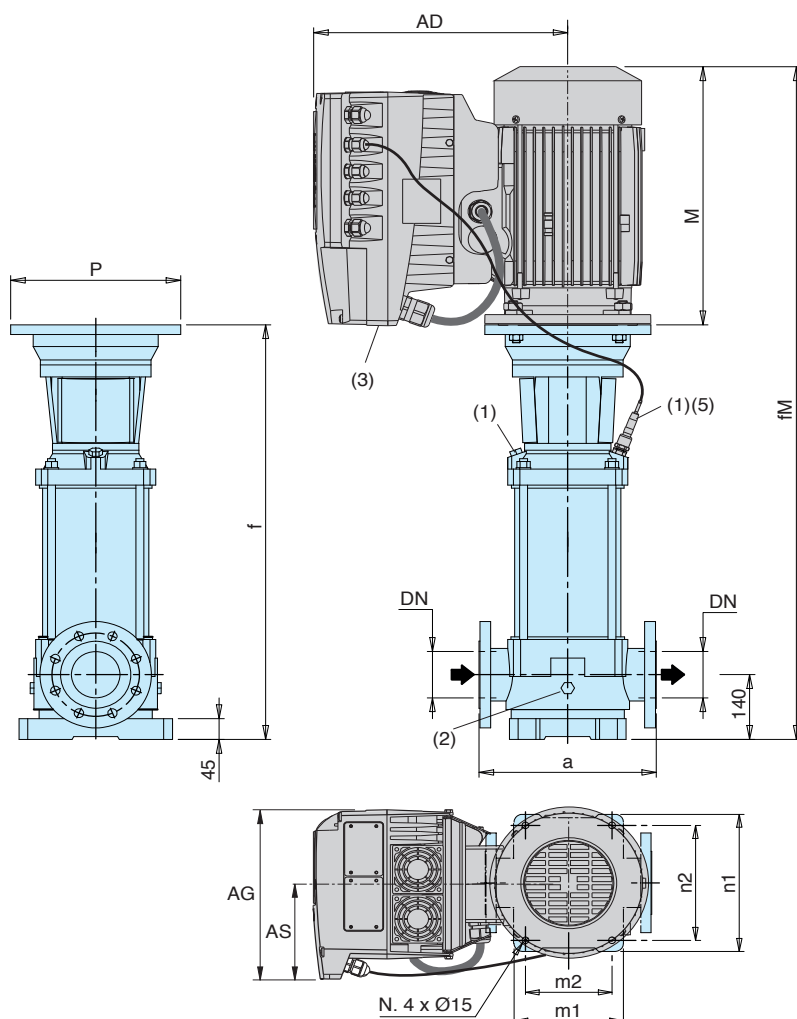
DN	DE	DK	DG	Holes	
				N.	Ø
65	185	145	118	8	19
80	200	160	132	8	19



- (5) MXV (L) : + 3 kg, MXV (H) : + 3 kg
- (6) Net weight (7) Pressure transducer

Pump	Motor			mm											MXV EI (5) kg (6)
				DN	a	h1	f	M	fM	P	AD	AG	AS	m4	
MXV EI 65-3202/D	4	5,5	M112 V1	65	320	105	407	311	718	250	294	210	118	334	80,8
MXV EI 65-3203/C	5,5	7,5	M132 V1	65	320	105	473	339	812	300	321	210	118	380	101,3
MXV EI 65-3204/C	7,5	10	M132 V1	65	320	105	519	339	858	300	368	281	153	426	115,5
MXV EI 65-3205/D	11	15	M160 V1	65	320	105	595	459	1054	350	393	281	153	472	152,8
MXV EI 65-3206/D	11	15	M160 V1	65	320	105	641	459	1100	350	393	281	153	518	154,8
MXV EI 65-3207/D	15	20	M160 V1	65	320	105	687	484	1171	350	471	350	190	564	203
MXV EI 65-3208/D	15	20	M160 V1	65	320	105	733	484	1217	350	471	350	190	610	205
MXV EI 65-3209/E	18,5	25	M160 V1	65	320	105	779	538	1290	350	491	350	190	656	-
MXV EI 65-3210/E	18,5	25	M160 V1	65	320	105	825	538	1363	350	491	350	190	702	-
MXV EI 65-3212/D	22	30	M180 V1	65	320	105	917	538	1455	350	491	350	190	794	239
MXV EI 80-4801/D	4	5,5	M112 V1	80	320	105	411	311	722	250	294	210	118	338	80,8
MXV EI 80-4802/C	5,5	7,5	M132 V1	80	320	105	466	339	805	300	321	210	118	373	101,3
MXV EI 80-4803/C	7,5	10	M132 V1	80	320	105	527	339	866	300	368	281	153	434	116,5
MXV EI 80-4804/D	11	15	M160 V1	80	320	105	618	459	1077	350	393	281	153	495	154,8
MXV EI 80-4805/D	15	20	M160 V1	80	320	105	680	484	1164	350	471	350	190	557	203
MXV EI 80-4806/D	15	20	M160 V1	80	320	105	741	484	1225	350	471	350	190	618	206
MXV EI 80-4807/E	18,5	25	M160 V1	80	320	105	802	538	1340	350	491	350	190	679	-
MXV EI 80-4808/D	22	30	M180 V1	80	320	105	864	538	1402	350	491	350	190	741	238

Dimensions and weights



Flanges in accordance
EN 1092-2

DN	PN	DE	DK	Holes	
				N.	Ø
100	16	230	180	8	19
100	25	225	190	8	23

- (1) Filling and air vent
- (2) Draining
- (3) Standard position of I-MAT
(for other positions rotate motor through 90° or 180°)
- (4) Net weight
- (5) Pressure transducer

Pump	Motor				mm												MXV EI kg (4)
	kW	HP	PN	Size	a	f	n1	n2	m1	m2	M	fm	P	AD	AG	AS	
MXV EI 100-6501	5,5	7,5	16	M132 V1	365	737	316	265	240	190	339	1076	300	321	210	118	131,3
MXV EI 100-6502-2R	7,5	10	16	M132 V1	365	829	316	265	240	190	339	1168	300	368	281	153	142,6
MXV EI 100-6502	11	15	16	M160 V1	365	849	316	265	240	190	459	1308	350	393	281	153	179,3
MXV EI 100-6503-2R	15	20	16	M160 V1	365	941	316	265	240	190	484	1425	350	471	350	190	230
MXV EI 100-6503/A	18,5	25	16	M160 V1	365	941	316	265	240	190	538	1479	350	491	350	190	-
MXV EI 100-6504-2R/A	18,5	25	16	M160 V1	365	1033	316	265	240	190	538	1571	350	4-1	350	190	-
MXV EI 100-6504	22	30	16	M180 V1	365	1033	316	265	240	190	538	1571	350	491	350	190	262
MXV EI 100-9001-1R	5,5	7,5	16	M132 V1	380	737	341	280	260	199	339	1076	300	321	210	118	132,8
MXV EI 100-9001	7,5	10	16	M132 V1	380	737	341	280	260	199	339	1076	300	368	281	153	139,6
MXV EI 100-9002-2R	11	15	16	M160 V1	380	849	341	280	260	199	459	1308	350	393	281	153	179,8
MXV EI 100-9002	15	20	16	M160 V1	380	849	341	280	260	199	484	1333	350	471	350	190	226
MXV EI 100-9003-2R/A	18,5	25	16	M160 V1	380	941	341	280	260	199	538	1479	350	491	350	190	-
MXV EI 100-9003	22	30	16	M180 V1	380	941	341	280	260	199	538	1479	350	491	350	190	257

Features

Long Service Life with Standard Motor

Pump with thrust bearing without additional axial loads on the motor bearings. Any standard motor V1 design (suitable to be lifted in vertical position) can be used, of our choice or of Client's choice.

Easy Assembly of the Motor

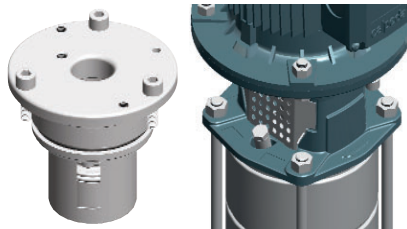
With the single-piece sleeve coupling the pump unit can be supplied fully assembled also without the motor. This eliminates the risk of damage caused by shifting of the pump shaft during transportation.

The motor is simply inserted in the coupling and fastened to the flange without the necessity for adapting the axial position of the pump shaft.

Removable mechanical Seal

Easy removal of the mechanical seal without dismantling the motor (for MXV 50-15, MXV 50-20 and MXV 100 with motors exceeding 4 KW).

MXV 50-15, MXV 50-20



Extra Safety

Single-piece coupling guard to be removed only by means of a tool, positioned around the lantern bracket, thus avoiding accidental pushing and rubbing against the coupling.

Low Cost Installation

Vertical construction with reduced pump height for installation in small spaces.

In-line connections to simplify the piping layout with the possibility of inserting the pump in straight pipe-lines.

Disassembly, inspection or cleaning of internal parts without removal of piping.

Robust and Reliable

Single PN 25 construction for all pump sizes.

The suction and discharge nozzles arranged in-line absorb the forces of the piping on the pump without the creation of distorting loads causing local friction and early wears.

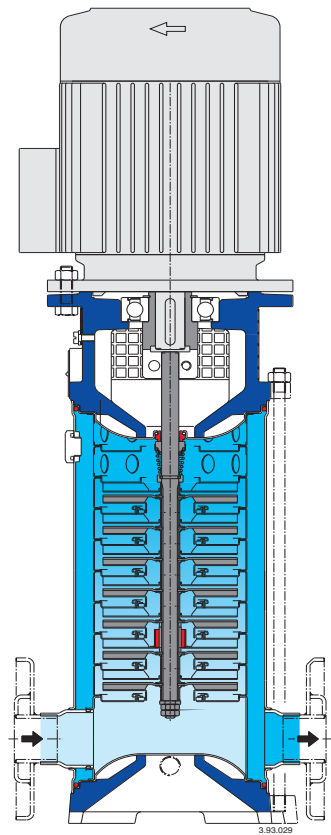
The lantern brackets compact and robust design maintains a sure alignment between rotating and fixed parts, reducing vibration.

The upper cover design prevents entrapment of air around the mechanical seal.

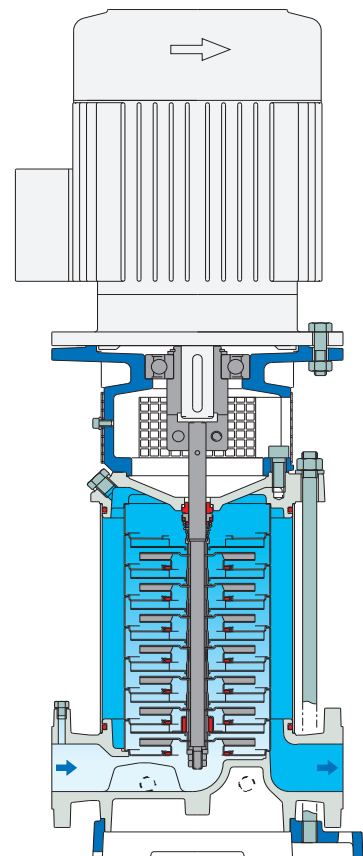
Low-Noise Operation

The water filled shroud around the stages and thick external walls, work together for low-noise operation.

Low-noise standard motor.



MXV 25, 32, 40, 50



MXV 65, 80



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

MXVL 25, 32, 40, 50

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 External jacket Suction casing Delivery casing Stage casing Impeller Lower cover Upper cover Spacer sleeve	Stainless Steel 1.4404 EN 10088 (AISI 316L)
Pump shaft Plug	
Bearing sleeve Bearing in stage casing	
Mechanical seal ISO 3069 - KU	
Wear ring	
O-rings	

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

Variants (to be specified when ordering)

Pump with threaded ports (**G**) (for MXVL 25, 32, 40).
 Pump with flanged ports (**F**).
 Pump with oval flange ports (**O**) (for MXVL 50).
 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.
 Other voltage ratings.
 Frequency 60 Hz.

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.
 Removal of the mechanical seal without dismantling the motor (for MXVL 50, MXVL 100 with motors exceeding 4 kW).
 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 (up to +120 °C for MXVL 50).
 Operating environment temperature: up to 40 °C.
 Maximum permissible pressure in pump casing: 25 bar.
 (16 bar for pumps with oval flanges).

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.

MXVL 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 Upper cover	Stainless Steel 1.4404 EN 10088 (AISI 316L)
External jacket Stage casing Impeller Spacer sleeve	
Pump shaft Plug	Stainless Steel (AISI 316L)(AISI 329 for MXVL 100) Stainless Steel 1.4404 EN 10088 (AISI 316L)
Bearing sleeve Bearing in stage casing	
Mechanical seal ISO 3069 - KU	Hard metal/Carbon/EPDM
Wear ring	
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)

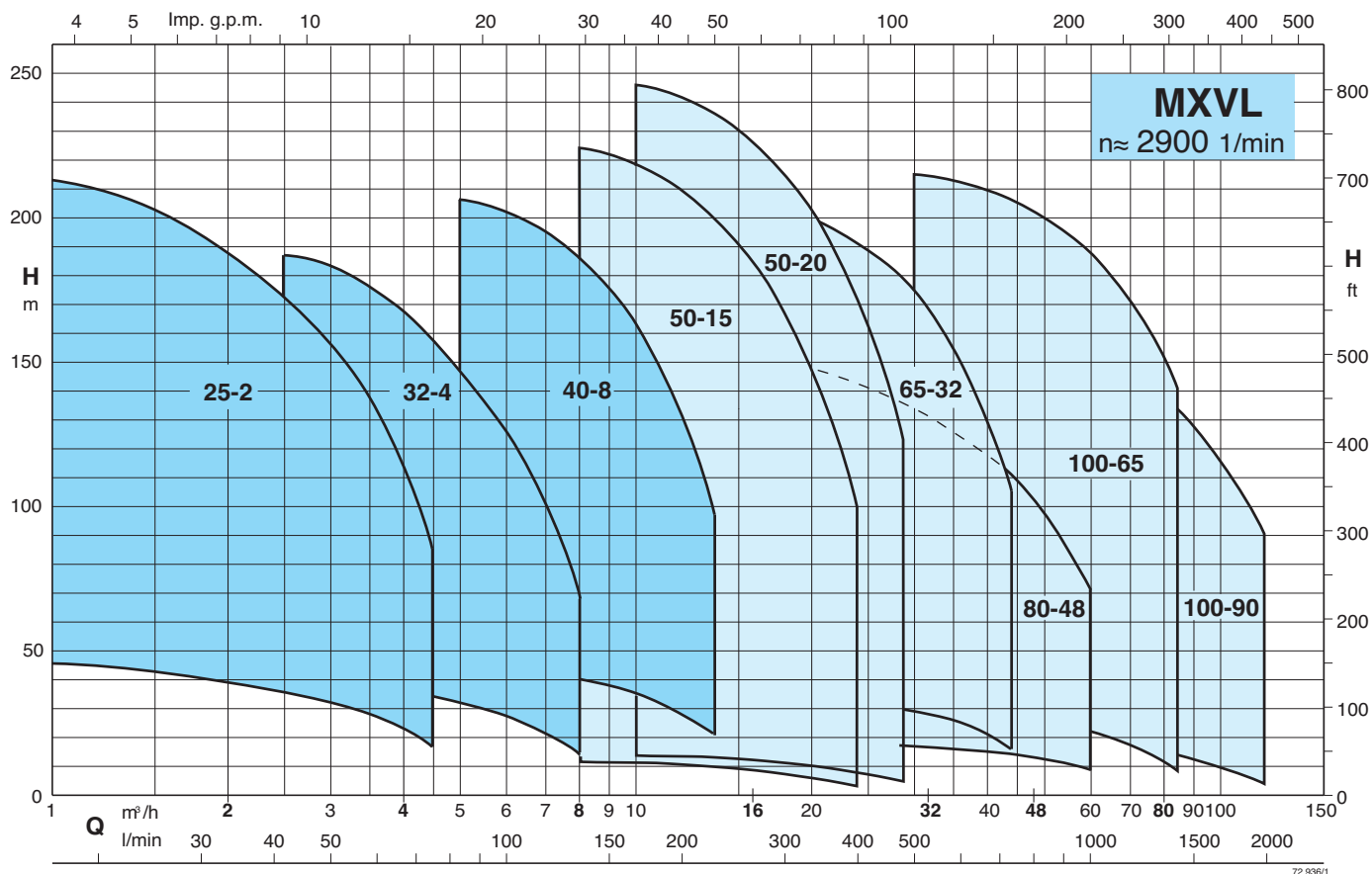
Variants (to be specified when ordering)

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.
 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).

Coverage chart



For characteristic curves, dimensions and weights see MXV

LENNTECH
WATER TREATMENT SOLUTIONS

info@lennotech.com Tel. +31-152-610-900
www.lennotech.com Fax. +31-152-616-289