



Japanese Technology since 1912

EVM series - Vertical Multistage Pumps

Data Book 60Hz



EVMS 1-3-5-10-15-20
EVM 32-45-64




ETM

EVMS

EVM

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Rev. D

EBARA Pumps Europe




②  **EBARA**

VERTICAL MULTISTAGE PUMPS

TYPICAL APPLICATIONS

1.1

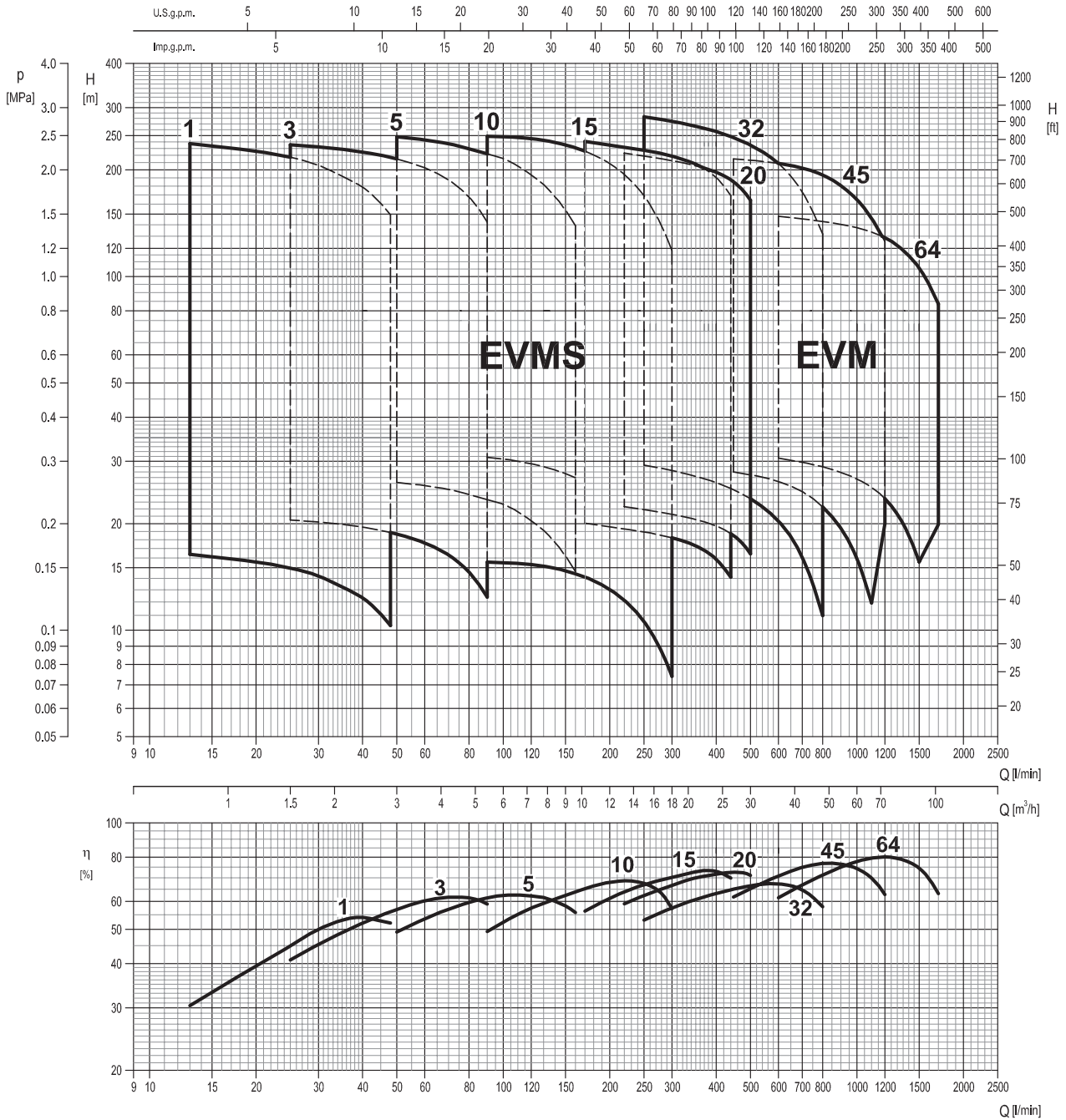
TYPICAL APPLICATIONS

INDUSTRY	BUILDING SERVICE	WATER SUPPLY
		
<ul style="list-style-type: none"> • Water treatment reverse osmosis ultra-filtration water purification micro-filtration softening, ionizing and demineralising systems swimming pools separators • Boiler feeding steam systems condensate systems • Wash and clean vehicle washing systems industrial part washing laundry systems supply of liquids with acids and bases supply of chemical liquids • Chilling handling of refrigerants for cooling thermal control systems industrial cooling laser cooling • Machine tooling cooling lubricant supply for tooling machines • Pressure boosting pressure boosting for industrial use • Food & beverage food washing systems bottle wash systems • Pharmaceutical industries • Marine applications freshwater, deckwash, high fog and fire fighting on ships 	<ul style="list-style-type: none"> • Pressure boosting pressure boosting for buildings pressure boosting for high rise buildings/hotels • Sprinkler systems • Fire fighting systems jockey pump • District heating • Heat exchangers / fan heaters • Air conditioning systems • Heating systems 	<ul style="list-style-type: none"> • Water treatment water treatment plants filtration water treatment plants transfer • Pressure boosting transfer from water treatment plants (mains) • Irrigation golf course / sport fields irrigation • Agriculture sprinkler irrigation drip irrigation

VERTICAL MULTISTAGE PUMPS

PERFORMANCE RANGE
 EVMS(.)1-3-5-10-15-20
 EVM(.)32-45-64

PERFORMANCE RANGE



EVMS

PRODUCT FEATURES

[General]

1. Pump Type

The EVMS is non-self-priming, vertical multistage in line, centrifugal pumps.

2. Model range

The EVMS comes in **1,3,5,10,15 and 20 m³/h** flow sizes for the majority market needs.

3. Maximum operating pressure

The EVMS can be operated at **16 bar or 25 bar as maximum**.

4. Operating temperature range

The EVMS can be operated from **- 30 to + 140 °C** as the maximum.

5. Material options

AISI 304, AISI 316L and Cast iron versions are available.

6. Motor






The EVMS can be coupled with **the commercial motors** that are acquired in the markets.

The EVMS can be provided as the electric pump with IE3 motor from 0.75 kW to 11 kW.

PTC sensor is available from 1.5 kW motor.

Unlosable screw and sealing from 0.75 kW to 11 kW are standard for terminal box fixing.

7. Certifications

	Drinking water approval				Atmosferes explosibles approval
	DM174/2004 	ACS 	KTW* 	WRAS 	ATEX 2014/34/UE 
Mechanical seal	SiC/Carbon_EPDM	SiC/Carbon_EPDM	SiC with graphite/ SiC_EPDM	SiC/Carbon_EPDM	All variations on page 203
EVMSG	•	-	-	-	•
EVMS	•	•	•	•	•
EVMSL	•	•	•	•	•

Note: * KTW is certified for components.

• Available

8. Conform to the provisions of the European directives



[Main Product Features]

1. Innovative hydraulic solutions

- **Commercial motors** can be fitted to all of the pump models without any modifications thanks to low pump axial thrust load.
- Low axial thrust load impeller can ensure **long life of the motor bearing**.

2. Energy saving

- **High efficiency IE3 with ETM motor**.
- **The VFD (Variable frequency drive) and the commercial sensor** can be directly mounted on EVMS to **maintain physical constant operations** such as pumping pressure depending on the conditions of use.

3. Piping connection options

- The various pipe connections are available depending on the application requirements **Oval flange / Round flange / Loose flange / Victaulic® / Clamp**.
- The external dimensions can be adjusted to the replacement of the existing pump in the wide majority.

4. Shaft seal solutions

- Silicon carbide inclusions with graphite can be used as **dry lubricant to reduce friction**.
- It's conforming to EN12756 (ex DIN 24960).

5. Easy maintenance

- **The cartridge mechanical seal** enables **the plug in replacement** of the shaft seal without disassembling the motor bracket.
- **The spacer coupling** allows easy maintenance without having to remove heavy motors over 5.5 kW.

6. Smart plug solutions

Air ventilation plug / Water filling & sensor plug / Commercial sensor fitting / Measurements for suction and discharge pressure / drain.

PRODUCT SPECIFICATIONS EVMS(.)1-3-5-10-15-20

		PUMP																		
Version		EVMSG						EVMS						EVMSL						
Operating range	Nominal flow rate (m³/h)	1	3	5	10	15	20	1	3	5	10	15	20	1	3	5	10	15	20	
		Maximum working pressure	1.6 / 2.5 MPa (16 bar/ 25 bar)																	
	Liquid temperature range	-30 °C to 140 °C																		
Key Components Material	Impeller	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)												
	Intermediate casing	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)												
	Liner ring	EN 1.4301 (AISI 304) + PPS						EN 1.4404 (AISI 316L) + PPS												
	Bottom casing	Cast Iron			EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)												
	Casing cover	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)												
	Shaft	EN 1.4301 (AISI 304)	EVMSG / EVMS 1-3-10 . EVMSG / EVMS 5-15-20 (depend on models)																	
		EN 1.4404 (AISI 316L)	EVMSL 1-3-10 . EVMSL 5-15-20 (depend on models)																	
		EN 1.4462 (AISI 329A)	EVMSG / EVMS / EVMSL 5-15-20 (depend on models)																	
	Shaft sleeve bearing	Tungsten carbide																		
	Shaft Seal	See the shaft seal options																		
	O-ring	EPDM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		FPM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Outer casing	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)												
	Motor Bracket	Cast Iron																		
	Tie rod	Galvanized steel 6.8 strength class ISO 898/1																		
Coupling	up to 4.0 kW	Die cast aluminium																		
	from 5.5 kW	Cast Iron																		
Base	Cast Iron						Die cast aluminium													
	Oval flange up to 16 bar	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Round flange (DIN)	up to 16 bar	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	from 16 bar to 25 bar	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Loose round flange (DIN)	up to 16 bar							●	●	●	●	●	●	●	●	●	●	●	●	
	from 16 bar to 25 bar							●	●	●	●	●	●	●	●	●	●	●	●	
Victaulic®	up to 16/25 bar							●	●	●	●	●	●	●	●	●	●	●	●	
Clamp	up to 16/25 bar							●	●	●	●	●	●	●	●	●	●	●	●	

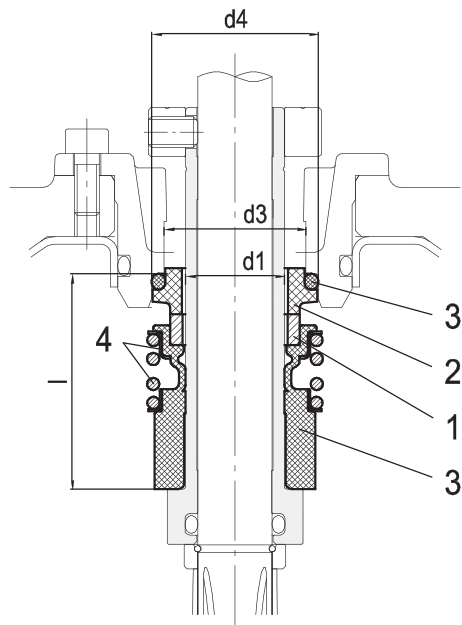
Legend: ● Available

		MOTOR	
Power Source	Frequency	60 Hz	
	Phase	Three Phase	
	Rotation speed	≈ 3500 min ⁻¹	
	Power rating	0.37 ÷ 2.2 kW	
		0.5 ÷ 3.0 HP	
Voltage	220/380 V - 5% /+ 10% (0.37 and 0.55 kW)	380-460/660 V - 5% /+ 10% (from 5.5 up to 11 kW)	
	220/380-460 V - 5% /+ 10% (from 0.75 kW up to 4 kW)	460 V ± 10% (15 and 18.5 kW) and 380/660 V - 5% /+ 10%	
Type	Type	TEFC	
	Efficiency Level	- : from 0.37 up to 0.55 kW IE3* : above 0.75 kW IE2 : from 15 kW up to 18.5 kW	
	No° of poles	2	
	Protection degree	IP 55	
	Insulation Class	F (temperature rise class B)	
Others	Thermal Protection	PTC is available for the above 1.5 kW included	
	Casing Material	Aluminium	
	Flange mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (above 5.5 kW)	
	Terminal Box fixing	Unlosable screw and sealing from 0.75 kW to 11 kW	

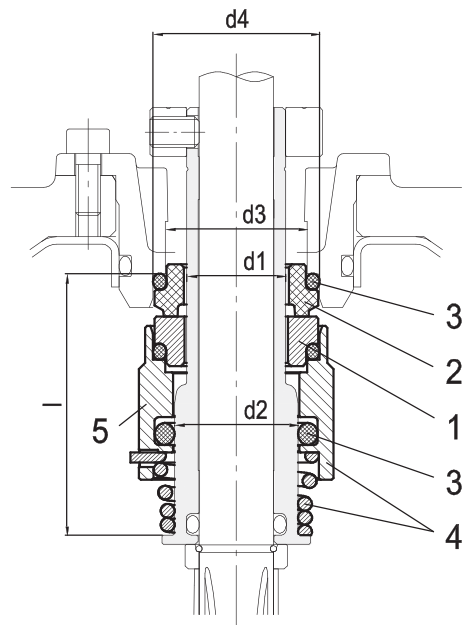
* : IE2 from 1.1 kW up to 3.0 kW at 220/380 V

SHAFT SEAL
EVMS(.)1-3-5-10-15-20

1. Shaft Seal



up to 16 bar
Cartridge Unbalanced type



up to 25 bar
Cartridge Balanced type

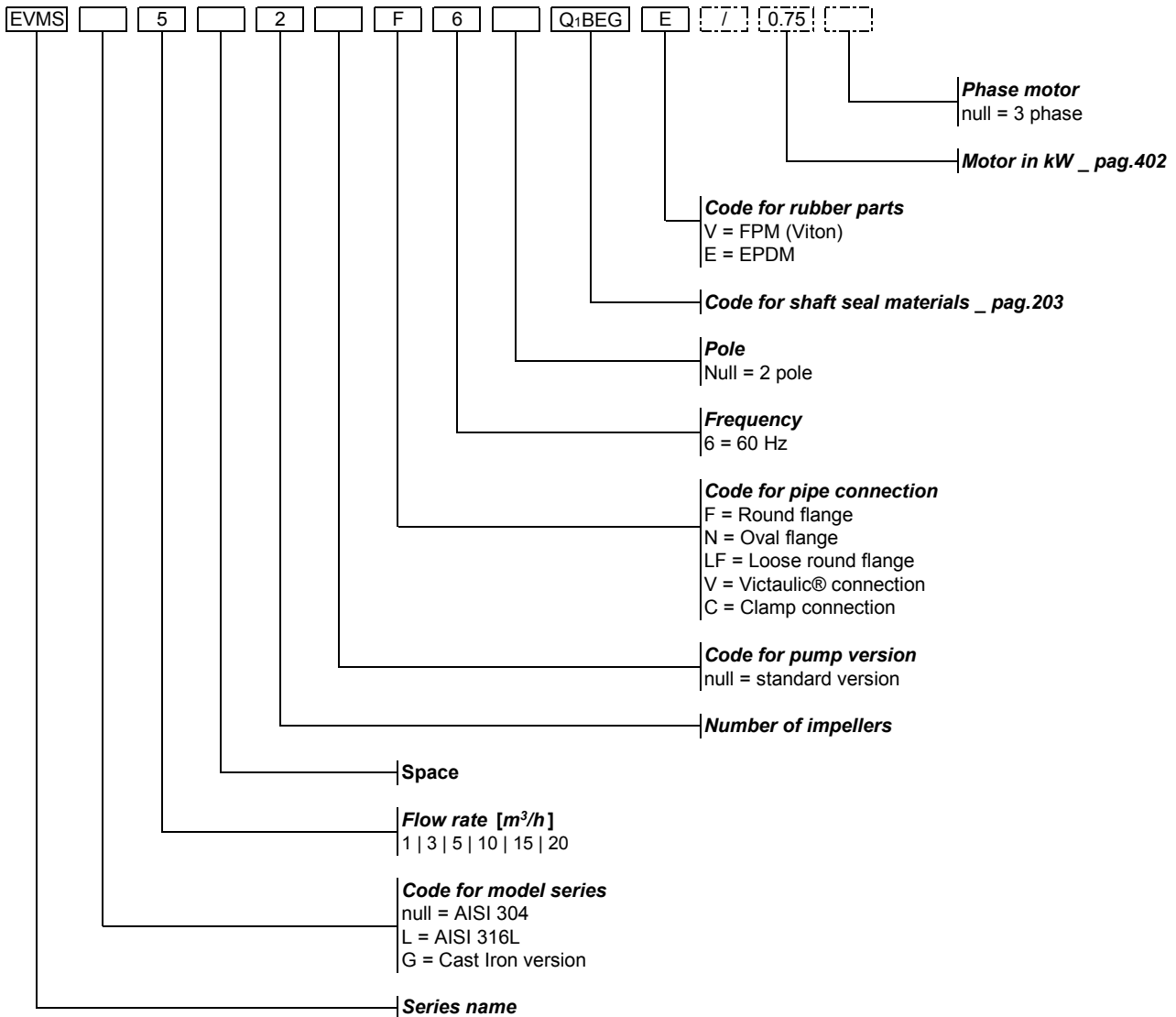
2. Type of Shaft Seal and Dimensions [mm]

Pump model	Max operating temperature	Shaft seal type		Shaft seal material									Type Key
		Unbalanced	Balanced	1 Rotating Part	Code	2 Stationary Part	Code	3 Elastomers	Code	4 Compression spring	5 Collar	Code	
up to 16 bar	- 30°C to + 120°C	●		SiC	(Q ₁)	Carbon	(B)	EPDM	(E)	AISI 316	(G)	Q ₁ BEG	
	- 30°C to + 80°C	●		SiC	(Q ₁)	Carbon	(B)	FPM	(V)	AISI 316	(G)	Q ₁ BVG	
	- 30°C to + 140°C		●	SiC with graphite	(Q ₁)	SiC	(Q ₁)	EPDM	(E)	AISI 316	(G)	HQ ₉ Q ₁ EG	
	- 30°C to + 80°C		●	SiC with graphite	(Q ₉)	SiC	(Q ₁)	FPM	(V)	AISI 316	(G)	HQ ₉ Q ₁ VG	
	- 30°C to + 140°C		●	SiC	(Q ₁)	Carbon	(B)	EPDM	(E)	AISI 316	(G)	HQ ₁ BEG	
up to 25 bar	- 30°C to + 140°C		●	SiC	(Q ₁)	Carbon	(B)	EPDM	(E)	AISI 316	(G)	HQ ₁ BEG	
	- 30°C to + 80°C		●	SiC	(Q ₁)	Carbon	(B)	FPM	(V)	AISI 316	(G)	HQ ₁ BVG	
	- 30°C to + 140°C		●	SiC with graphite	(Q ₉)	SiC	(Q ₁)	EPDM	(E)	AISI 316	(G)	HQ ₉ Q ₁ EG	
	- 30°C to + 80°C		●	SiC with graphite	(Q ₉)	SiC	(Q ₁)	FPM	(V)	AISI 316	(G)	HQ ₉ Q ₁ VG	

● Available

Pump model	Shaft seal type		Max operating pressure	d1 [[mm]]	d2 [[mm]]	d3 [[mm]]	d4 [[mm]]	l [[mm]]
EVMS 1/3/5	Cartridge	Unbalanced	16 bar	16	-	23	27	35
		Balanced	25 bar		20			42.5
EVMS 10/15/20	Cartridge	Unbalanced	16 bar	20	-	29	35	37.5
		Balanced	25 bar		24			45

TYPE KEY EVMS(.)1-3-5-10-15-20



Example for **pump without motor**:
EVMS5 2F6Q1BEGE

Example for **pump with motor**:
EVMS5 2F6Q1BEGE/0.75

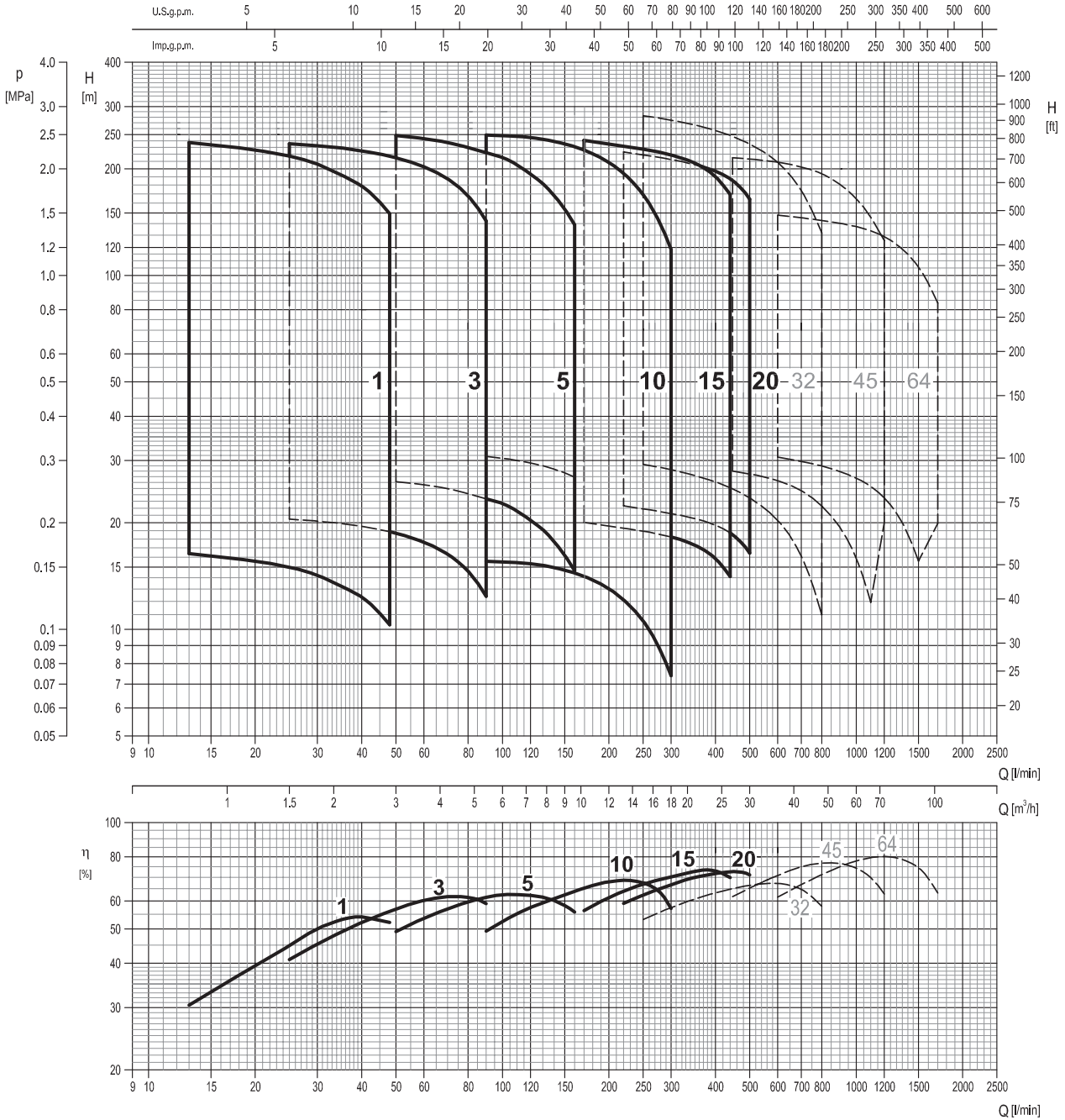
NAMEPLATE

P.N.A 01234560221		EBARA		CE	
Via Campo Sportivo, 38		38023 Cles (TN) - ITALY		MADE IN ITALY	
TYPE	①				
○	Hmax	④	m	Hmin	⑤ m ○
Q	②	Umin	H	③	m
P2	⑥	kW	Hz	⑧	min ⁻¹ ⑨
HP	⑦	P/N	⑩		
MEI >	⑪	Hyd. eff.	⑫	%	

- 1) "TYPE" Pump model
- 2) "Q" Indicates upper and lower flow rate limits
- 3) "H" Indicates head limits corresponding to minimum and maximum flow rate
- 4) "Hmax" Maximum head
- 5) "Hmin" Minimum head
- 6) "P2" Rated power of the motor (output at shaft)
- 7) "HP" Rated power of the motor expressed in HP (Horse Power)
- 8) "Hz" Frequency
- 9) "min-1" Speed of rotation
- 10) "P/N" Pump item number
- 11) "MEI" Index of the pump's quality in relation to its efficiency
- 12) "Hyd. Eff. " Hydraulic efficiency of the pump

PERFORMANCE RANGE
EVMS(.)1-3-5-10-15-20

EVMS _ PERFORMANCE RANGE



CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B.

The curves refer to effective speed of asynchronous motors at 60 Hz, 2 poles.

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt).

The NPSH curve is an average curve obtained in the same conditions of performance curves.

During the pump selection, consider to get a safety margin of at least 0.5 m.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

- Q - volume flow rate
- H - total head
- P_2 - pump power input (shaft power)
- η - pump efficiency
- NPSH - net positive suction head required by the pump

SELECTION CHART
EVMS(.)1-3-5

EVMS _ SELECTION CHART

Pump Type	Motor			Maximum working pressure (MPa)	Q=Capacity									
	Three phase	kW	HP		Size	H=Total manometric head in meters								
						l/min	0	13	25	48	50	75	90	120
					m ³ /h	0	0.8	1.5	2.9	3.0	4.5	5.4	7.2	9.6
1	EVMS(.)1 2/0.37	0.37	0.5	71	1.6	17.2	16.4	15	10.3	-	-	-	-	-
	EVMS(.)1 3/0.37	0.37	0.5	71		25.8	24.6	22.5	15.5	-	-	-	-	-
	EVMS(.)1 4/0.37	0.37	0.5	71		34.5	32.7	30.0	20.6	-	-	-	-	-
	EVMS(.)1 5/0.37	0.37	0.5	71		43.1	40.9	37.5	25.4	-	-	-	-	-
	EVMS(.)1 6/0.55	0.55	0.75	71		51.5	49.1	45	31	-	-	-	-	-
	EVMS(.)1 7/0.55	0.55	0.75	71		60.5	57.5	52.5	36.1	-	-	-	-	-
	EVMS(.)1 8/0.75	0.75	1	80		69	65.5	60	41.5	-	-	-	-	-
	EVMS(.)1 9/0.75	0.75	1	80		77.5	73.5	67.5	46.5	-	-	-	-	-
	EVMS(.)1 10/0.75	0.75	1	80		86	82	75	51.5	-	-	-	-	-
	EVMS(.)1 11/1.1	1.1	1.5	80		94.5	90	82.5	57	-	-	-	-	-
	EVMS(.)1 12/1.1	1.1	1.5	80		103	98	90	62	-	-	-	-	-
	EVMS(.)1 13/1.1	1.1	1.5	80		112	106	97.5	67	-	-	-	-	-
	EVMS(.)1 14/1.1	1.1	1.5	80		121	115	105	72.5	-	-	-	-	-
	EVMS(.)1 16/1.5	1.5	2	90		138	131	120	82.5	-	-	-	-	-
	EVMS(.)1 18/1.5	1.5	2	90		155	147	135	93	-	-	-	-	-
	EVMS(.)1 20/1.5	1.5	2	90		172	164	150	103	-	-	-	-	-
	EVMS(.)1 22/2.2	2.2	3	90		190	180	165	114	-	-	-	-	-
	EVMS(.)1 24/2.2	2.2	3	90		207	196	180	124	-	-	-	-	-
	EVMS(.)1 26/2.2	2.2	3	90		224	213	195	134	-	-	-	-	-
	EVMS(.)1 27/2.2	2.2	3	90		233	221	202	139	-	-	-	-	-
EVMS(.)1 29/2.2	2.2	3	90	250	237	217	150	-	-	-	-	-		
3	EVMS(.)3 2/0.37	0.37	0.5	71	1.6	21.4	-	20.5	18.9	18.7	15.5	12.4	-	-
	EVMS(.)3 3/0.55	0.55	0.75	71		32.1	-	30.7	28.3	28	23.3	18.6	-	-
	EVMS(.)3 4/0.75	0.75	1	80		43	-	41	37.7	37.4	31	24.8	-	-
	EVMS(.)3 5/0.75	0.75	1	80		53.5	-	51	47	46.5	38.8	31	-	-
	EVMS(.)3 6/1.1	1.1	1.5	80		64.5	-	61.5	56.5	56	46.5	37.2	-	-
	EVMS(.)3 7/1.1	1.1	1.5	80		75	-	71.5	66	65.5	54.5	43.5	-	-
	EVMS(.)3 8/1.5	1.5	2	90		85.5	-	82	75.5	74.5	62	49.5	-	-
	EVMS(.)3 9/1.5	1.5	2	90		96.5	-	92	85	84	69	56	-	-
	EVMS(.)3 10/1.5	1.5	2	90		107	-	102	94.5	93.5	77.5	62	-	-
	EVMS(.)3 11/2.2	2.2	3	90		118	-	113	104	103	85.5	68	-	-
	EVMS(.)3 12/2.2	2.2	3	90		129	-	123	113	112	93.0	74.5	-	-
	EVMS(.)3 13/2.2	2.2	3	90		139	-	133	123	122	101	80.5	-	-
	EVMS(.)3 14/2.2	2.2	3	90		150	-	143	132	131	109	86.5	-	-
	EVMS(.)3 15/3.0	3.0	4	100		161	-	154	142	140	116	93	-	-
	EVMS(.)3 16/3.0	3.0	4	100		172	-	164	151	150	124	99	-	-
	EVMS(.)3 17/3.0	3.0	4	100		182	-	174	160	159	132	105	-	-
	EVMS(.)3 19/3.0	3.0	4	100		204	-	195	179	178	147	118	-	-
	EVMS(.)3 20/3.0	3.0	4	100		214	-	205	189	187	155	124	-	-
	EVMS(.)3 21/4.0	4.0	5.5	112		225	-	215	198	196	163	130	-	-
	EVMS(.)3 22/4.0	4.0	5.5	112		236	-	225	208	206	171	136	-	-
EVMS(.)3 23/4.0	4.0	5.5	112	247	-	235	217	215	178	143	-	-		
5	EVMS(.)5 2/0.75	0.75	1	80	1.6	27.6	-	-	26.1	24.6	23.4	20.4	14.6	
	EVMS(.)5 3/1.1	1.1	1.5	80		41.4	-	-	-	39.2	36.9	35.1	30.6	21.9
	EVMS(.)5 4/1.5	1.5	2	90		55	-	-	-	52.5	49	47	40.5	29.3
	EVMS(.)5 5/2.2	2.2	3	90		69	-	-	-	65.5	61.5	58	51	36.6
	EVMS(.)5 6/2.2	2.2	3	90		83	-	-	-	78.5	74	70	61	44
	EVMS(.)5 7/3.0	3.0	4	100		96.5	-	-	-	91.5	86	82	71.5	51
	EVMS(.)5 8/3.0	3.0	4	100		110	-	-	-	105	98.5	93.5	81.5	58.5
	EVMS(.)5 9/3.0	3.0	4	100		124	-	-	-	118	111	105	91.5	66
	EVMS(.)5 10/4.0	4.0	5.5	112		138	-	-	-	131	123	117	102	73
	EVMS(.)5 11/4.0	4.0	5.5	112		152	-	-	-	144	135	129	112	80.5
	EVMS(.)5 12/4.0	4.0	5.5	112		166	-	-	-	157	148	140	122	88
	EVMS(.)5 13/5.5	5.5	7.5	132		179	-	-	-	170	160	152	132	95
	EVMS(.)5 14/5.5	5.5	7.5	132		193	-	-	-	183	172	164	143	102
	EVMS(.)5 15/5.5	5.5	7.5	132		207	-	-	-	196	185	175	153	110
	EVMS(.)5 16/5.5	5.5	7.5	132		221	-	-	-	209	197	187	163	117
	EVMS(.)5 17/7.5	7.5	10	132		235	-	-	-	222	209	199	173	124
	EVMS(.)5 19/7.5	7.5	10	132		262	-	-	-	248	234	222	194	139

1.6 MPa=16 bar ; 2.5 MPa=25 bar

SELECTION CHART EVMS(.)10-15-20

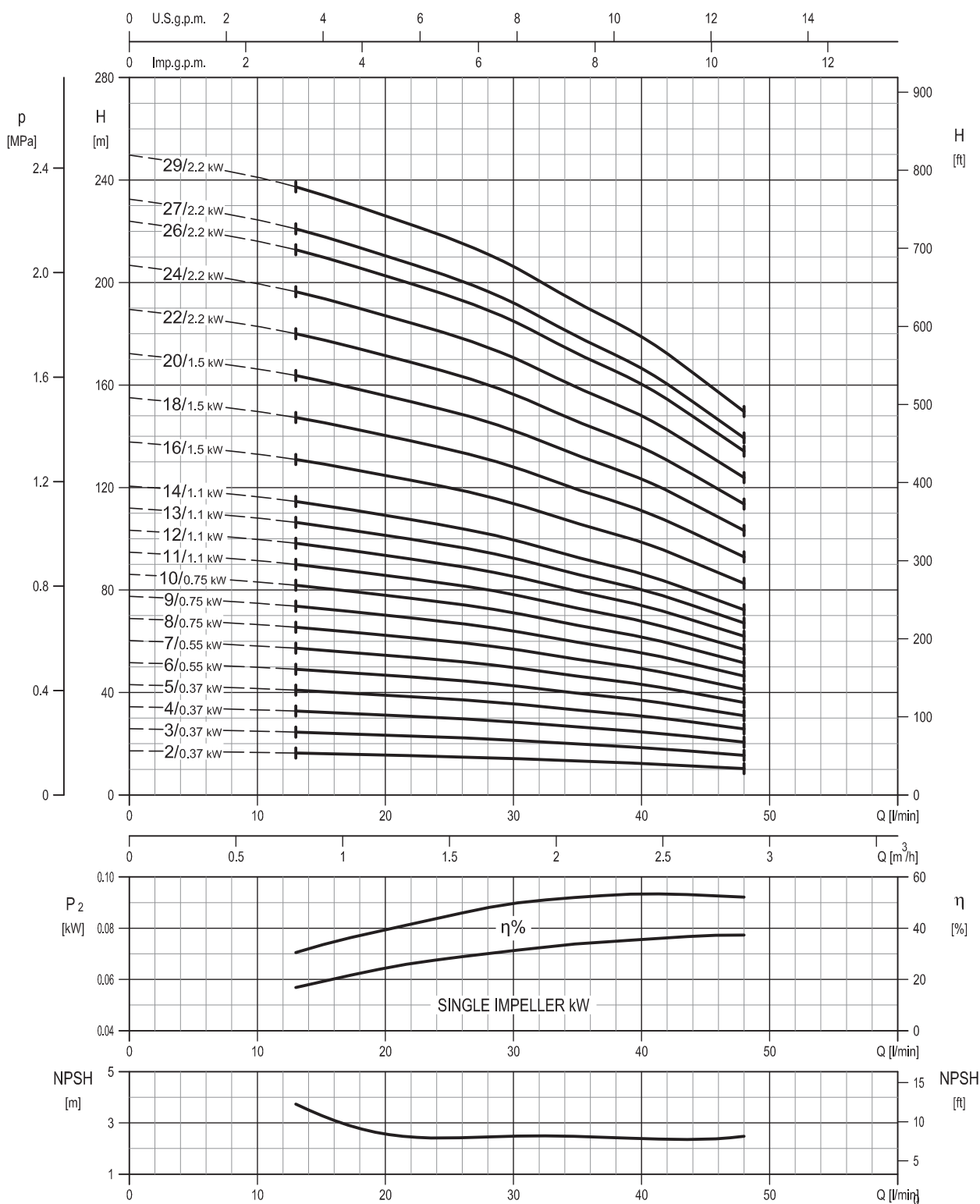
2.7

Pump Type	Motor			Maximum working pressure (MPa)	Q=Capacity																
	Three phase	kW	HP		Size	H=Total manometric head in meters															
						l/min	0	90	120	160	170	200	220	250	300	350	400	440	500	570	
					m ³ /h	0	5.4	7.2	9.6	10.2	12.0	13.2	15.0	18.0	21.0	24.0	26.4	30.0	34.2		
10	EVMS(.)10 1/0.75	0.75	1	80	1.6	16	15.6	15.3	14.4	14.1	13	12.1	10.6	7.4	-	-	-	-	-	-	
	EVMS(.)10 2/1.5	1.5	2	90		32	31.1	30.7	28.9	28.2	26.1	24.3	21.1	14.8	-	-	-	-	-	-	-
	EVMS(.)10 3/2.2	2.2	3	90		48	46.5	46	43.3	42.4	39.1	36.4	31.7	22.2	-	-	-	-	-	-	-
	EVMS(.)10 4/3.0	3.0	4	100		64	62	61.5	58	56.5	52	48.5	42	29.6	-	-	-	-	-	-	-
	EVMS(.)10 5/4.0	4.0	5.5	112		80	77.5	76.5	72	70.5	65	60.5	52.5	37	-	-	-	-	-	-	-
	EVMS(.)10 6/4.0	4.0	5.5	112		96	93.5	92	86.5	84.5	78	73	63.5	44.5	-	-	-	-	-	-	-
	EVMS(.)10 7/5.5	5.5	7.5	132		112	109	107	101	99	91	85	74	52	-	-	-	-	-	-	-
	EVMS(.)10 8/5.5	5.5	7.5	132		128	125	123	115	113	104	97.1	84.5	59	-	-	-	-	-	-	-
	EVMS(.)10 9/5.5	5.5	7.5	132		144	140	138	130	127	117	109	95	66.5	-	-	-	-	-	-	-
	EVMS(.)10 10/7.5	7.5	10	132		160	156	153	144	141	130	121	106	74	-	-	-	-	-	-	-
	EVMS(.)10 11/7.5	7.5	10	132		176	171	169	159	155	143	134	116	81.5	-	-	-	-	-	-	-
	EVMS(.)10 12/7.5	7.5	10	132		192	187	184	173	170	156	146	127	89	-	-	-	-	-	-	-
	EVMS(.)10 14/11	11	15	160		224	218	215	202	198	182	170	148	104	-	-	-	-	-	-	-
EVMS(.)10 15/11	11	15	160	240	233	230	216	219	195	182	158	111	-	-	-	-	-	-	-		
EVMS(.)10 16/11	11	15	160	256	249	245	231	226	208	194	169	118	-	-	-	-	-	-	-		
15	EVMS(.)15 1/1.5	1.5	2	90	1.6	21.7	-	-	-	19.1	18.4	18.0	17.4	15.8	14.2	12.1	9.9	-	-	-	
	EVMS(.)15 2/3.0	3.0	4	100		43.6	-	-	-	40	39.1	38.6	37.9	36.5	34.7	31.7	28.2	-	-	-	
	EVMS(.)15 3/5.5	5.5	7.5	132		65.4	-	-	-	60	58.5	58	57	54.5	52	47.5	42.5	-	-	-	
	EVMS(.)15 4/7.5	7.5	10	132		87	-	-	-	80.5	78.5	78	76	73	69	63.5	56.5	-	-	-	
	EVMS(.)15 5/7.5	7.5	10	132		109	-	-	-	100	98	96.5	95	91	86.5	79.5	70.5	-	-	-	
	EVMS(.)15 6/11	11	15	160		131	-	-	-	120	117	116	114	109	104	95.5	84.5	-	-	-	
	EVMS(.)15 7/11	11	15	160		153	-	-	-	141	137	135	133	128	121	111	99	-	-	-	
	EVMS(.)15 8/15	15	20	160 M		174	-	-	-	161	157	154	152	146	138	127	113	-	-	-	
	EVMS(.)15 9/15	15	20	160 M		196	-	-	-	181	176	174	171	164	156	143	127	-	-	-	
	EVMS(.)15 10/15	15	20	160 M		218	-	-	-	201	196	193	190	182	173	159	141	-	-	-	
20	EVMS(.)20 1/2.2	2.2	3	90	1.6	25	-	-	-	-	-	20.7	20.0	18.7	16.9	14.9	13.1	9.5	4.3		
	EVMS(.)20 2/4.0	4.0	5.5	112		49.5	-	-	-	-	-	44.5	44	42.5	41	39.4	37.5	32.8	24.9		
	EVMS(.)20 3/7.5	7.5	10	132		74	-	-	-	-	-	67	65.5	64	61.5	59	56	49	37.3		
	EVMS(.)20 4/7.5	7.5	10	132		99	-	-	-	-	-	89.5	87.5	85	82	79	75	65.5	49.8		
	EVMS(.)20 5/11	11	15	160		124	-	-	-	-	-	112	110	106	103	98.5	93.5	82	62		
	EVMS(.)20 6/11	11	15	160		148	-	-	-	-	-	134	131	128	123	118	112	98.5	75		
	EVMS(.)20 7/15	15	20	160 M		173	-	-	-	-	-	156	153	149	144	138	131	115	87		
	EVMS(.)20 8/15	15	20	160 M		198	-	-	-	-	-	179	175	170	164	158	150	131	99.5		
	EVMS(.)20 9/18.5	18.5	25	160 L		223	-	-	-	-	-	201	197	191	185	177	169	148	112		
	EVMS(.)20 10/18.5	18.5	25	160 L		247	-	-	-	-	-	223	219	213	206	197	187	164	124		

1.6 MPa=16 bar ; 2.5 MPa=25 bar

EVMS _ SELECTION CHART

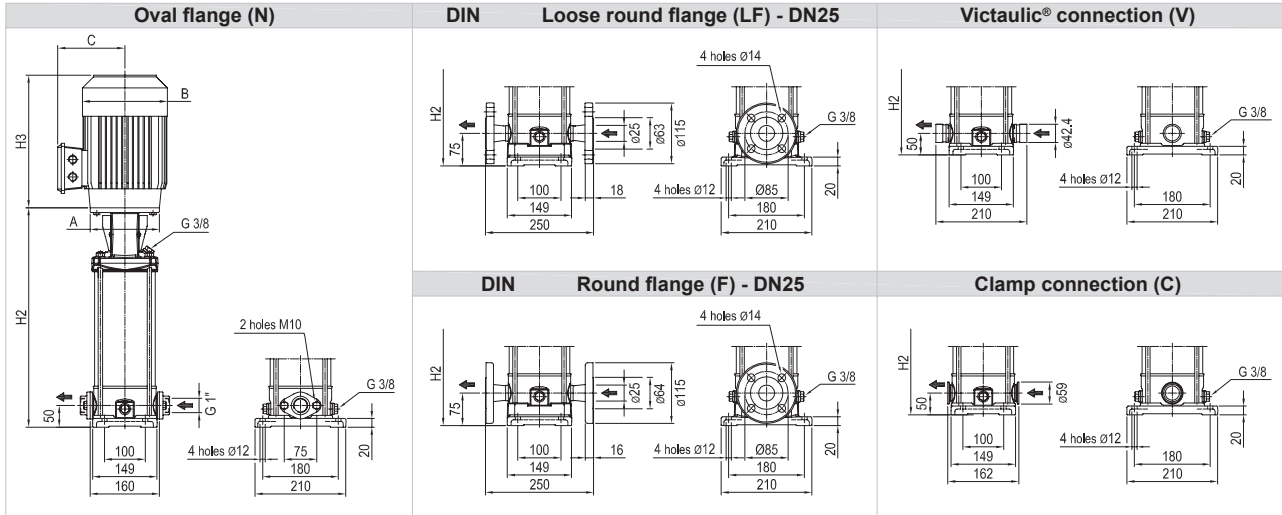
PERFORMANCE CURVE
EVMS(L)1



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMS(L)1

Dimensional sketch

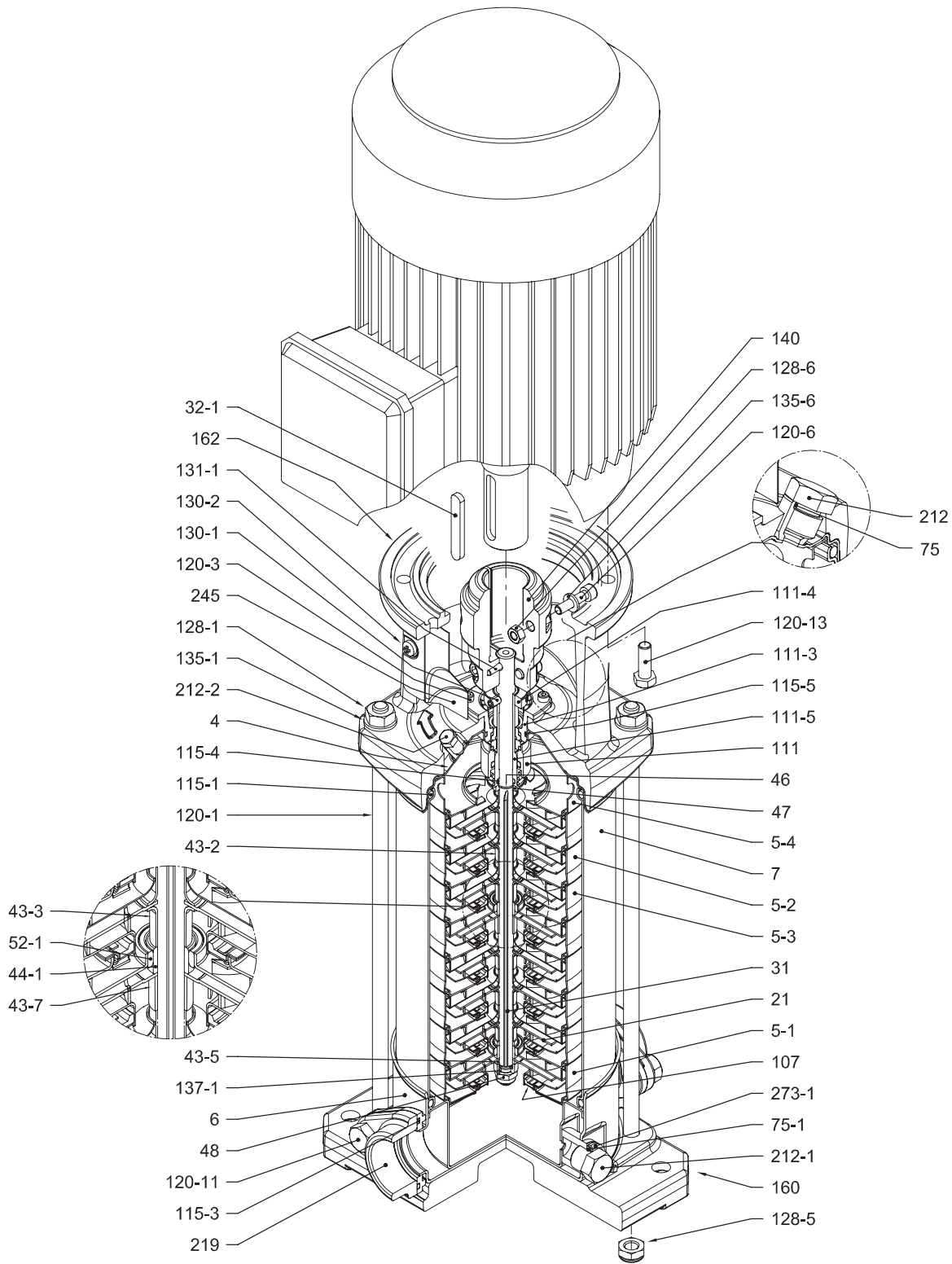


Dimensions [mm] and Weights [Kg]

Pump Type	P _{max} [MPa]	Motor						Oval flange (N)			Loose round flange (LF) Round flange (F)			Victaulic® connection (V) Clamp connection (C)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
EVMS(L)1 2/0.37	1.6	0.37	71	ø105	139	114	216	250	10	15.8	275	10.7	16.5	250	10	15.8
EVMS(L)1 3/0.37	1.6	0.37	71	ø105	139	114	216	271	10.5	16.3	296	11.2	17	271	10.4	16.2
EVMS(L)1 4/0.37	1.6	0.37	71	ø105	139	114	216	292	10.9	16.7	317	11.6	17.4	292	10.8	16.6
EVMS(L)1 5/0.37	1.6	0.37	71	ø105	139	114	216	313	11.4	17.2	338	12	17.8	313	11.3	17.1
EVMS(L)1 6/0.55	1.6	0.55	71	ø105	139	114	216	334	11.8	18	359	12.4	18.6	334	11.7	17.9
EVMS(L)1 7/0.55	1.6	0.55	71	ø105	139	114	216	355	12.5	18.7	380	13.1	19.3	355	12.4	18.6
EVMS(L)1 8/0.75	1.6	0.75	80	ø120	141	102	233	386	12.9	21.4	411	13.6	22.1	386	12.8	21.3
EVMS(L)1 9/0.75	1.6	0.75	80	ø120	141	102	233	407	13.3	21.8	432	14	22.5	407	13.3	21.8
EVMS(L)1 10/0.75	1.6	0.75	80	ø120	141	102	233	428	13.8	22.3	453	14.4	22.9	428	13.7	22.2
EVMS(L)1 11/1.1	1.6	1.1	80	ø120	141	102	244	449	14.2	24.2	474	14.9	24.9	449	14.1	24.1
EVMS(L)1 12/1.1	1.6	1.1	80	ø120	141	102	244	470	14.6	24.6	495	15.3	25.3	470	14.6	24.6
EVMS(L)1 13/1.1	1.6	1.1	80	ø120	141	102	244	491	15.3	25.3	516	16	26	491	15.3	25.3
EVMS(L)1 14/1.1	1.6	1.1	80	ø120	141	102	244	512	15.7	25.7	537	16.4	26.4	512	15.7	25.7
EVMS(L)1 16/1.5	1.6	1.5	90	ø140	160	119	291	564	16.7	30.2	589	17.4	30.9	564	16.7	30.2
EVMS(L)1 18/1.5	1.6	1.5	90	ø140	160	119	291	606	17.6	31.1	631	18.3	31.8	606	17.6	31.1
EVMS(L)1 20/1.5	2.5	1.5	90	ø140	160	119	291	-	-	-	673	19.2	32.7	648	18.5	32
EVMS(L)1 22/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	715	20.6	35.6	690	19.9	34.9
EVMS(L)1 24/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	757	21.6	36.6	732	20.9	35.9
EVMS(L)1 26/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	799	22.5	37.5	774	21.8	36.8
EVMS(L)1 27/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	820	23	38	795	22.3	37.3
EVMS(L)1 29/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	862	23.9	38.9	837	23.2	38.2

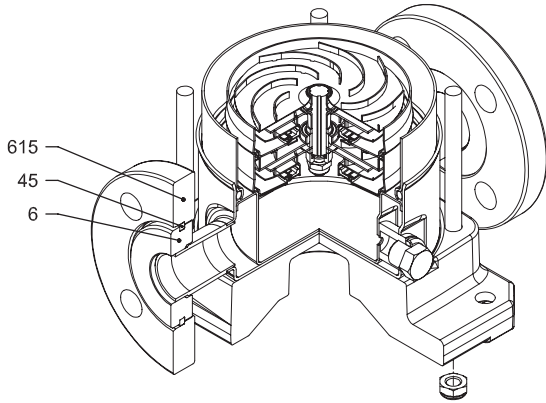
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMS(L)1

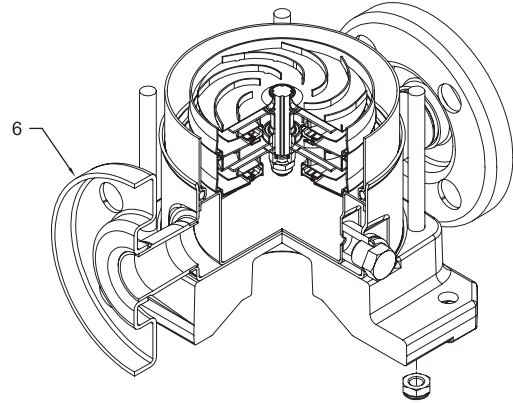


with Oval flange (N)

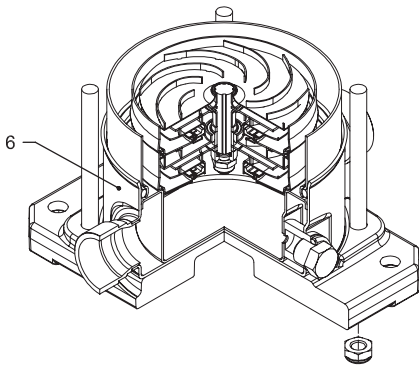
PIPE CONNECTION EVMS(L)1



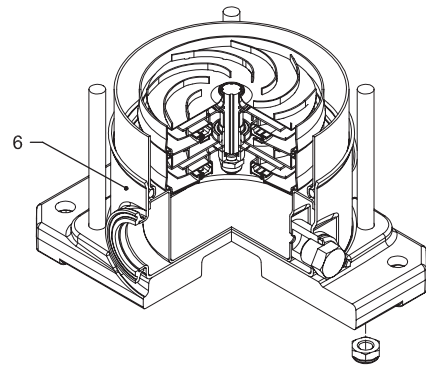
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE
EVMS(L)1

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-7	Spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M8	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM		Ø 12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS		
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
115-1	O-Ring (outer casing)	EPDM / FPM		Ø129.54x5.34	OR 6510
115-3	O-Ring	EPDM / FPM			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM		Ø11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM / FPM		Ø32.99x2.62	OR 3131
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		M10	
120-3	Screw	A2-70 UNI 7323		M4x10	ISO 4762
120-6	Screw for coupling	Galvanized steel		M6x25	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	MEC 71-80 MEC 90	Galvanized steel 8.8 strenght class ISO 898/1	M6x20	ISO 4017
				M8x20	ISO 4017
128-1	Nut for tie rod	Galvanized steel		M10	UNI 5588
128-5	Nut for tie rod	A2-70 UNI 7323		M10	UNI 7474
128-6	Nut for coupling	Galvanized steel		M6	ISO 4032
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		Ø4x32	UNI 4838
135-1	Washer	Galvanized steel		Ø10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel		Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	up to 4.0 kW Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
160	Base	Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
615	Flange	Nodular Cast Iron			

QUANTITY FOR MODEL EVMS(L)1

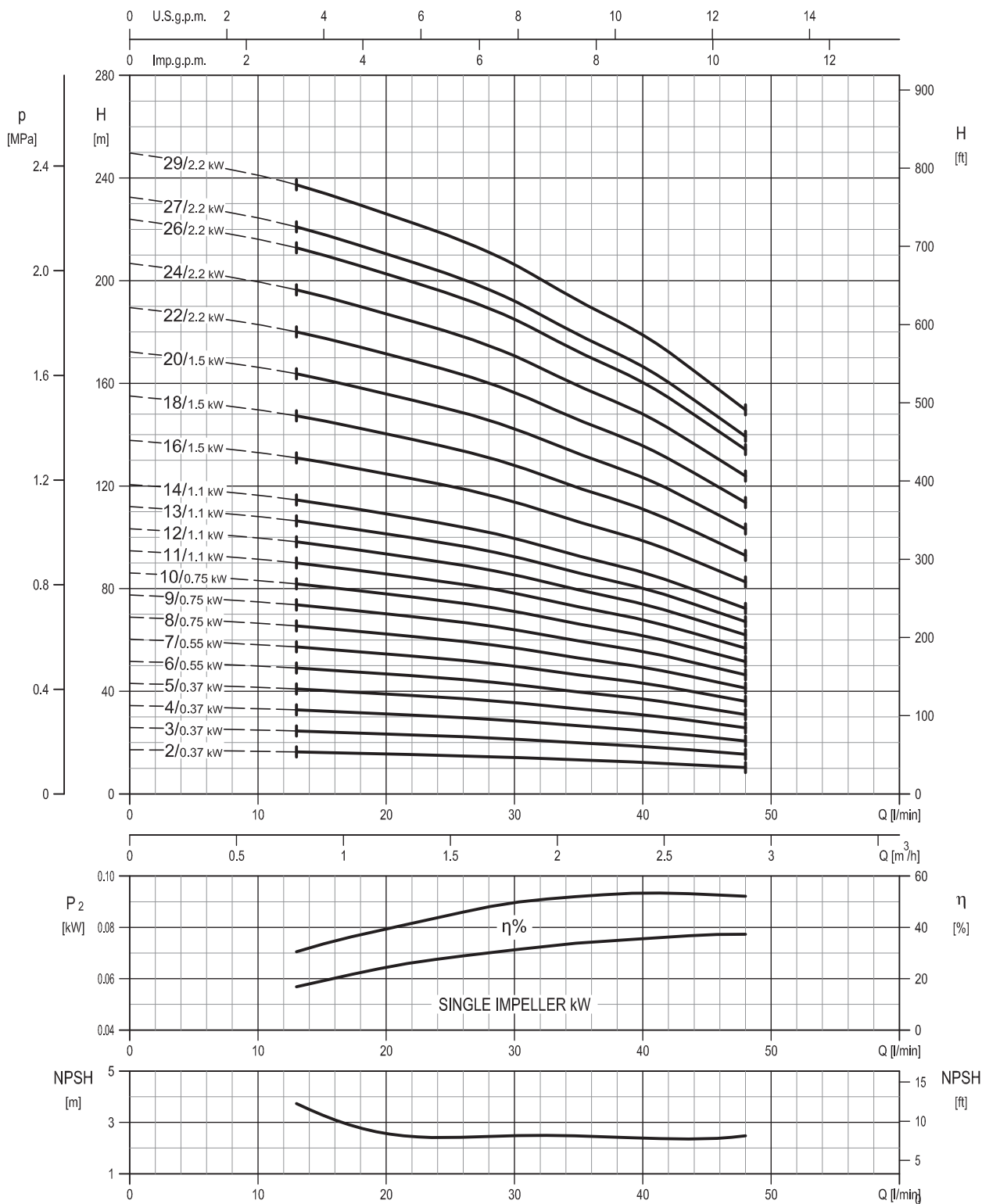
Pump Type	N°																														
	4	5-1	52	53	54	6	7	21	31	32-1	43-2	43-3	43-5	43-7	44-1	45**	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5
EVMS(L)1 2/0.37	1	1	/	1	1	1	1	2	1	1	1	1	/	/	1	4	2	1	1	1	1	2	2	1	1	1	1	2	2	1	1
EVMS(L)1 3/0.37	1	1	1	1	1	1	1	3	1	1	3	1	/	/	1	4	2	1	1	1	1	2	3	1	1	1	1	2	2	1	1
EVMS(L)1 4/0.37	1	1	2	1	1	1	1	4	1	1	5	1	/	/	1	4	2	1	1	1	1	2	4	1	1	1	1	2	2	1	1
EVMS(L)1 5/0.37	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	4	2	1	1	1	1	2	5	1	1	1	1	2	2	1	1
EVMS(L)1 6/0.55	1	1	4	1	1	1	1	6	1	1	9	1	/	/	1	4	2	1	1	1	1	2	6	1	1	1	1	2	2	1	1
EVMS(L)1 7/0.55	1	1	5	1	1	1	1	7	1	1	11	1	/	/	1	4	2	1	1	1	1	2	7	1	1	1	1	2	2	1	1
EVMS(L)1 8/0.75	1	1	6	1	1	1	1	8	1	1	13	1	/	/	1	4	2	1	1	1	1	2	8	1	1	1	1	2	2	1	1
EVMS(L)1 9/0.75	1	1	7	1	1	1	1	9	1	1	15	1	1	/	1	4	2	1	1	1	1	2	9	1	1	1	1	2	2	1	1
EVMS(L)1 10/0.75	1	1	8	1	1	1	1	10	1	1	17	1	/	/	1	4	2	1	1	1	1	2	10	1	1	1	1	2	2	1	1
EVMS(L)1 11/1.1	1	1	9	1	1	1	1	11	1	1	19	1	/	/	1	4	2	1	1	1	1	2	11	1	1	1	1	2	2	1	1
EVMS(L)1 12/1.1	1	1	10	1	1	1	1	12	1	1	21	1	/	/	1	4	2	1	1	1	1	2	12	1	1	1	1	2	2	1	1
EVMS(L)1 13/1.1	1	1	10	2	1	1	1	13	1	1	20	2	1	1	2	4	2	1	1	2	1	2	13	1	1	1	1	2	2	1	1
EVMS(L)1 14/1.1	1	1	11	2	1	1	1	14	1	1	22	2	/	/	1	2	4	2	1	1	2	14	1	1	1	1	2	2	1	1	
EVMS(L)1 16/1.5	1	1	13	2	1	1	1	16	1	1	26	2	/	/	1	2	4	2	1	1	2	16	1	1	1	1	2	2	1	1	
EVMS(L)1 18/1.5	1	1	15	2	1	1	1	18	1	1	30	2	/	/	1	2	4	2	1	1	2	18	1	1	1	1	2	2	1	1	
EVMS(L)1 20/1.5	1	1	17	2	1	1	1	20	1	1	34	2	/	/	1	2	4	2	1	1	2	20	1	1	1	1	2	/	1	1	
EVMS(L)1 22/2.2	1	1	19	2	1	1	1	22	1	1	38	2	/	/	1	2	4	2	1	1	2	22	1	1	1	1	2	/	1	1	
EVMS(L)1 24/2.2	1	1	21	2	1	1	1	24	1	1	42	2	/	/	1	2	4	2	1	1	2	24	1	1	1	1	2	/	1	1	
EVMS(L)1 26/2.2	1	1	23	2	1	1	1	26	1	1	46	2	/	/	1	2	4	2	1	1	2	26	1	1	1	1	2	/	1	1	
EVMS(L)1 27/2.2	1	1	24	2	1	1	1	27	1	1	48	2	/	/	1	2	4	2	1	1	2	27	1	1	1	1	2	/	1	1	
EVMS(L)1 29/2.2	1	1	26	2	1	1	1	29	1	1	52	2	/	/	1	2	4	2	1	1	2	29	1	1	1	1	2	/	1	1	

Pump Type	N°																						
	120-1	120-3	120-6	120-11*	120-13	128-1	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-2	219*	245	273-1	615**
EVMS(L)1 2/0.37	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 3/0.37	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 4/0.37	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 5/0.37	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 6/0.55	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 7/0.55	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 8/0.75	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 9/0.75	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 10/0.75	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 11/1.1	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 12/1.1	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 13/1.1	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 14/1.1	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 16/1.5	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 18/1.5	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2
EVMS(L)1 20/1.5	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2
EVMS(L)1 22/2.2	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2
EVMS(L)1 24/2.2	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2
EVMS(L)1 26/2.2	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2
EVMS(L)1 27/2.2	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2
EVMS(L)1 29/2.2	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2

* only for Oval flange (N)

** only for Loose round flange (LF)

PERFORMANCE CURVE
EVMSG1

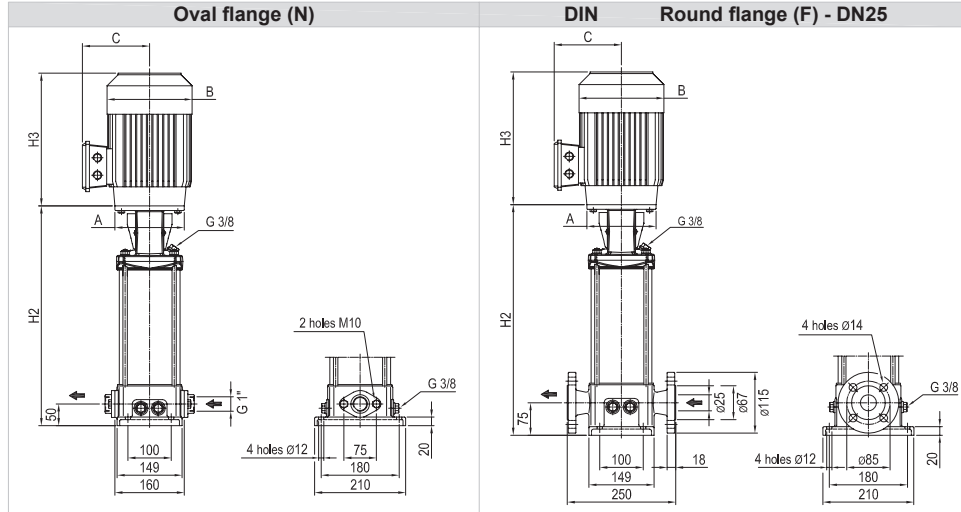


Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

EVMSG1

TECHNICAL DATA EVMSG1

Dimensional sketch



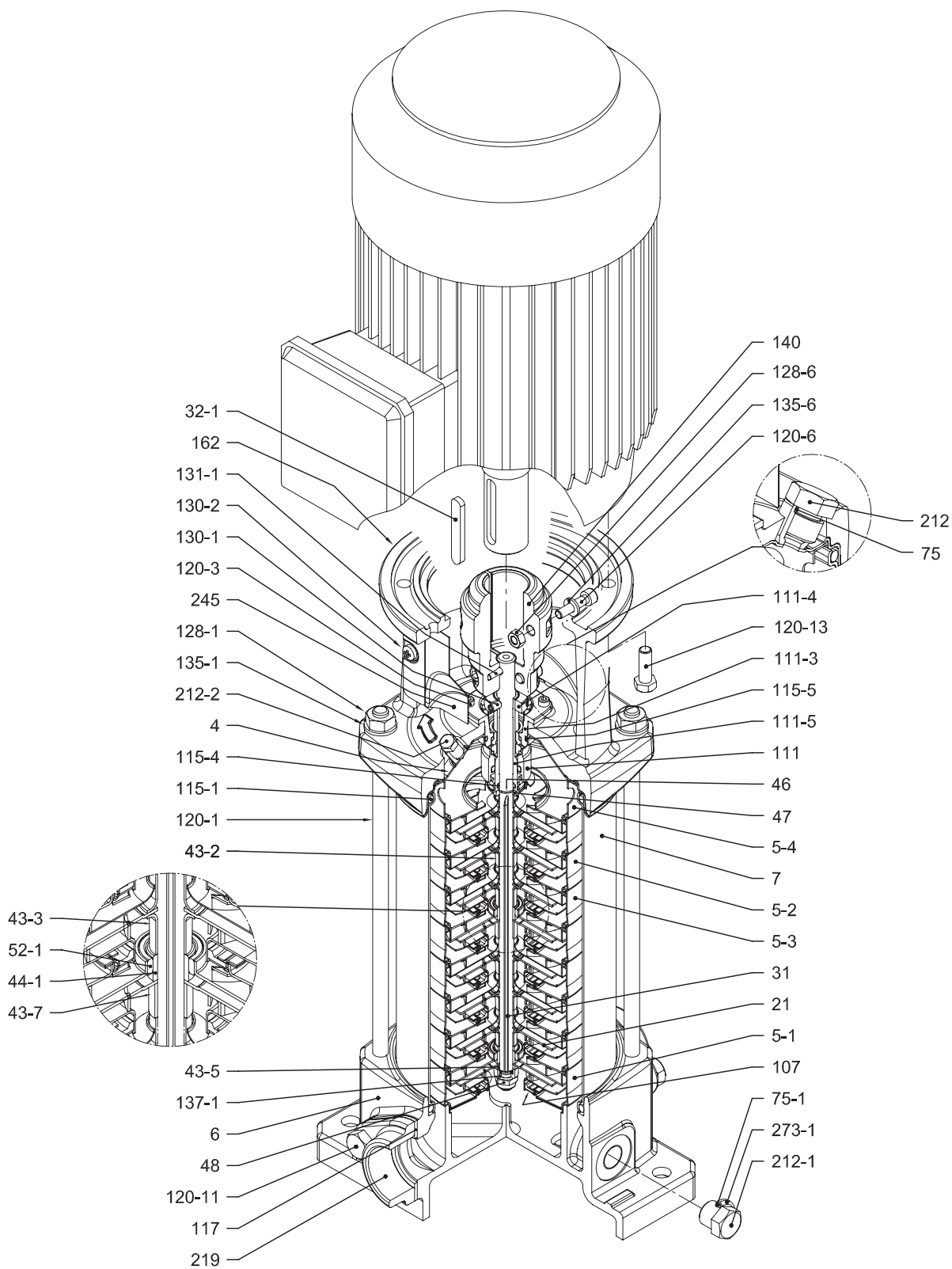
Dimensions [mm] and Weights [Kg]

Pump Type	P _{max} [MPa]	Motor						Oval flange (N)			Round flange (F)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
EVMSG1 2/0.37	1.6	0.37	71	ø105	139	114	216	250	14.3	20.1	275	17.7	23.5
EVMSG1 3/0.37	1.6	0.37	71	ø105	139	114	216	271	14.7	20.5	296	18.1	23.9
EVMSG1 4/0.37	1.6	0.37	71	ø105	139	114	216	292	15.1	20.9	317	18.5	24.3
EVMSG1 5/0.37	1.6	0.37	71	ø105	139	114	216	313	15.6	21.4	338	19	24.8
EVMSG1 6/0.55	1.6	0.55	71	ø105	139	114	216	334	16	22.2	359	19.4	25.6
EVMSG1 7/0.55	1.6	0.55	71	ø105	139	114	216	355	16.7	22.9	380	20.1	26.3
EVMSG1 8/0.75	1.6	0.75	80	ø120	141	102	233	386	17.1	25.6	411	20.5	29
EVMSG1 9/0.75	1.6	0.75	80	ø120	141	102	233	407	17.6	26.1	432	21	29.5
EVMSG1 10/0.75	1.6	0.75	80	ø120	141	102	233	428	18	26.5	453	21.4	29.9
EVMSG1 11/1.1	1.6	1.1	80	ø120	141	102	244	449	18.4	28.4	474	21.8	31.8
EVMSG1 12/1.1	1.6	1.1	80	ø120	141	102	244	470	18.9	28.9	495	22.3	32.3
EVMSG1 13/1.1	1.6	1.1	80	ø120	141	102	244	491	19.6	29.6	516	23	33
EVMSG1 14/1.1	1.6	1.1	80	ø120	141	102	244	512	20	30	537	23.4	33.4
EVMSG1 16/1.5	1.6	1.5	90	ø140	160	119	291	564	21	34.5	589	24.4	37.9
EVMSG1 18/1.5	1.6	1.5	90	ø140	160	119	291	606	21.9	35.4	631	25.3	38.8
EVMSG1 20/1.5	2.5	1.5	90	ø140	160	119	291	-	-	-	673	26.2	39.7
EVMSG1 22/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	715	27.6	42.6
EVMSG1 24/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	757	28.6	43.6
EVMSG1 26/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	799	29.5	44.5
EVMSG1 27/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	820	30	45
EVMSG1 29/2.2	2.5	2.2	90	ø140	160	119	291	-	-	-	862	30.9	45.9

1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

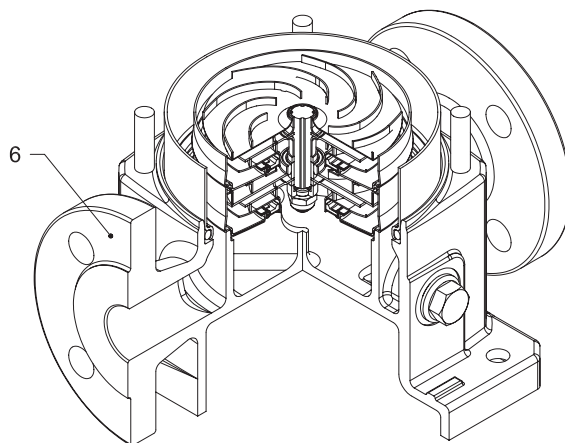
SECTIONAL VIEW
EVMSG1

EVMSG1



with Oval flange (N)

PIPE CONNECTION EVMSG1



with Round flange (F)

SECTIONAL TABLE
EVMSG1

N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD
4	Casing cover	EN 1.4301 (AISI 304)		
5-1	Suction casing	EN 1.4301 (AISI 304)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)		
5-4	Discharge casing	EN 1.4301 (AISI 304)		
6	Bottom casing	Cast Iron EN GJL-250-EN1561		
7	Outer casing	EN 1.4301 (AISI 304)		
21	Impeller	EN 1.4301 (AISI 304)		
31	Shaft	EN 1.4301 (AISI 304)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		
43-7	Spacer	EN 1.4301 (AISI 304)		
44-1	Shaft sleeve bearing	Tungsten carbide		
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)		
47	Ring Holder	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M8	
52-1	Bearing	Tungsten carbide		
75	O-Ring (plug)	EPDM / FPM	Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM		
107	Liner ring	EN 1.4301 (AISI 304) + PPS		
111	Mechanical Seal	SiC / Carbon / EPDM / FPM		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		
111-4	Seal holder	EN 1.4301 (AISI 304)		
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)		
115-1	O-Ring (outer casing)	EPDM / FPM	Ø129.54x5.34	OR 6510
115-4	O-Ring (cartridge sleeve)	EPDM / FPM	Ø11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM / FPM	Ø32.99x2.62	OR 3131
117	Flange gasket	EPDM / FPM		
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1	M10	
120-3	Screw	A2-70 UNI 7323	M4x10	ISO 4762
120-6	Screw for coupling	Galvanized steel	M6x25	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323		
120-13	Screw for motor	Galvanized steel 8.8 strenght class ISO 898/1	MEC 71-80 MEC 90	M6x20 ISO 4017
			M8x20 ISO 4017	
128-1	Nut for tie rod	Galvanized steel	M10	UNI 5588
128-6	Nut for coupling	Galvanized steel	M6	ISO 4032
130-1	Set screw	A2-70 UNI 7323	M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel	Ø4x32	UNI 4838
135-1	Washer	Galvanized steel	Ø10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel	Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)		
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe)	
162	Motor bracket	Cast iron EN-GJL-200-EN 1561		
212	Plug	EN 1.4301 (AISI 304)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)		
219	Counter flange	Galvanized steel		
245	Coupling guard	EN 1.4301 (AISI 304)		
273-1	Plug Washer	EN 1.4301 (AISI 304)		

QUANTITY FOR MODEL EVMSG1

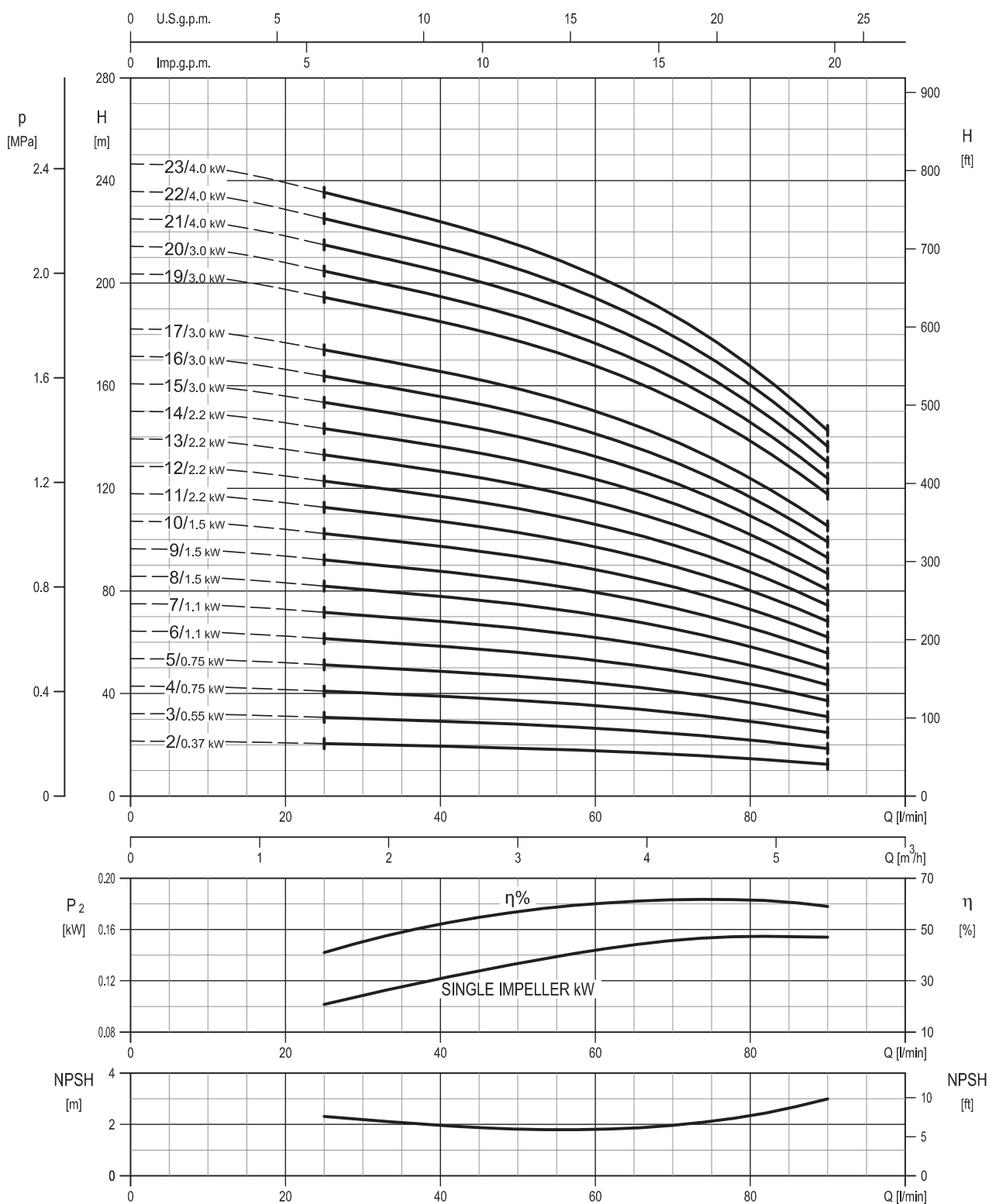
Pump Type	N°																												
	4	5-1	52	53	54	6	7	21	31	32-1	43-2	43-3	43-5	43-7	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5
EVMSG1 2/0.37	1	1	/	1	1	1	1	2	1	1	1	1	/	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1
EVMSG1 3/0.37	1	1	1	1	1	1	1	3	1	1	3	1	/	/	1	2	1	1	1	1	4	3	1	1	1	1	2	1	1
EVMSG1 4/0.37	1	1	2	1	1	1	1	4	1	1	5	1	/	/	1	2	1	1	1	1	4	4	1	1	1	1	2	1	1
EVMSG1 5/0.37	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	2	1	1	1	1	4	5	1	1	1	1	2	1	1
EVMSG1 6/0.55	1	1	4	1	1	1	1	6	1	1	9	1	/	/	1	2	1	1	1	1	4	6	1	1	1	1	2	1	1
EVMSG1 7/0.55	1	1	5	1	1	1	1	7	1	1	11	1	/	/	1	2	1	1	1	1	4	7	1	1	1	1	2	1	1
EVMSG1 8/0.75	1	1	6	1	1	1	1	8	1	1	13	1	/	/	1	2	1	1	1	1	4	8	1	1	1	1	2	1	1
EVMSG1 9/0.75	1	1	7	1	1	1	1	9	1	1	15	1	1	/	1	2	1	1	1	1	4	9	1	1	1	1	2	1	1
EVMSG1 10/0.75	1	1	8	1	1	1	1	10	1	1	17	1	/	/	1	2	1	1	1	1	4	10	1	1	1	1	2	1	1
EVMSG1 11/1.1	1	1	9	1	1	1	1	11	1	1	19	1	/	/	1	2	1	1	1	1	4	11	1	1	1	1	2	1	1
EVMSG1 12/1.1	1	1	10	1	1	1	1	12	1	1	21	1	/	/	1	2	1	1	1	1	4	12	1	1	1	1	2	1	1
EVMSG1 13/1.1	1	1	10	2	1	1	1	13	1	1	20	2	1	1	2	2	1	1	2	1	4	13	1	1	1	1	2	1	1
EVMSG1 14/1.1	1	1	11	2	1	1	1	14	1	1	22	2	/	1	2	2	1	1	2	1	4	14	1	1	1	1	2	1	1
EVMSG1 16/1.5	1	1	13	2	1	1	1	16	1	1	26	2	/	1	2	2	1	1	2	1	4	16	1	1	1	1	2	1	1
EVMSG1 18/1.5	1	1	15	2	1	1	1	18	1	1	30	2	/	1	2	2	1	1	2	1	4	18	1	1	1	1	2	1	1
EVMSG1 20/1.5	1	1	17	2	1	1	1	20	1	1	34	2	/	1	2	2	1	1	2	1	4	20	1	1	1	1	2	1	1
EVMSG1 22/2.2	1	1	19	2	1	1	1	22	1	1	38	2	/	1	2	2	1	1	2	1	4	22	1	1	1	1	2	1	1
EVMSG1 24/2.2	1	1	21	2	1	1	1	24	1	1	42	2	/	1	2	2	1	1	2	1	4	24	1	1	1	1	2	1	1
EVMSG1 26/2.2	1	1	23	2	1	1	1	26	1	1	46	2	/	1	2	2	1	1	2	1	4	26	1	1	1	1	2	1	1
EVMSG1 27/2.2	1	1	24	2	1	1	1	27	1	1	48	2	/	1	2	2	1	1	2	1	4	27	1	1	1	1	2	1	1
EVMSG1 29/2.2	1	1	26	2	1	1	1	29	1	1	52	2	/	1	2	2	1	1	2	1	4	29	1	1	1	1	2	1	1

Pump Type	N°																					
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG1 2/0.37	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 3/0.37	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 4/0.37	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 5/0.37	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 6/0.55	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 7/0.55	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 8/0.75	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 9/0.75	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 10/0.75	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 11/1.1	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 12/1.1	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 13/1.1	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 14/1.1	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 16/1.5	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 18/1.5	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG1 20/1.5	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG1 22/2.2	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG1 24/2.2	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG1 26/2.2	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG1 27/2.2	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG1 29/2.2	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4

* only for Oval flange (N)

PERFORMANCE CURVE
EVMS(L)3

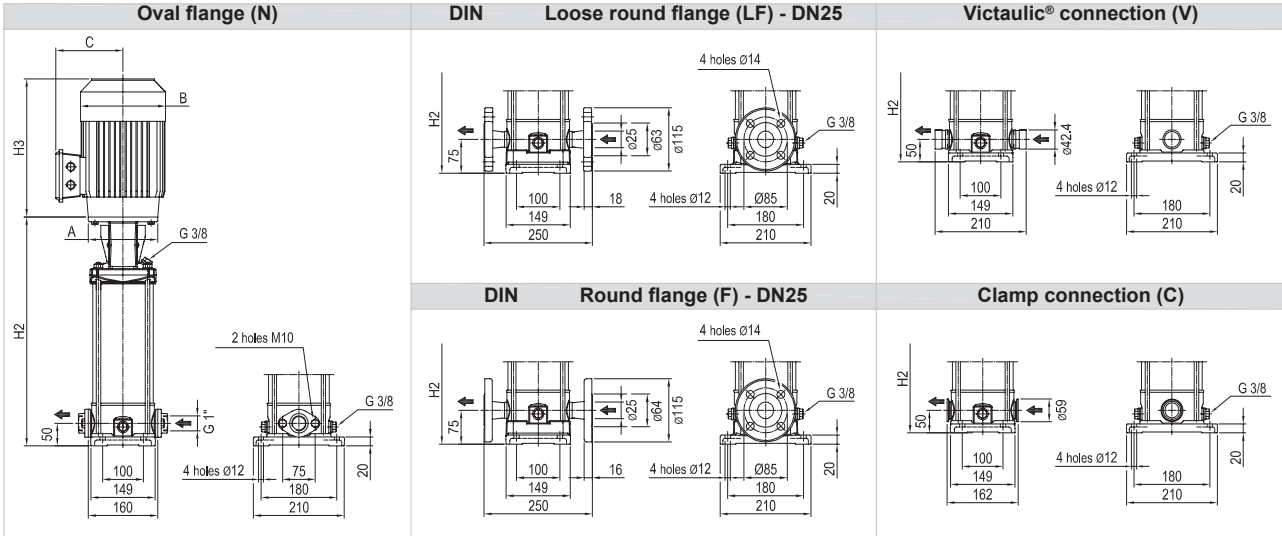
EVMS(L)3



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMS(L)3

Dimensional sketch

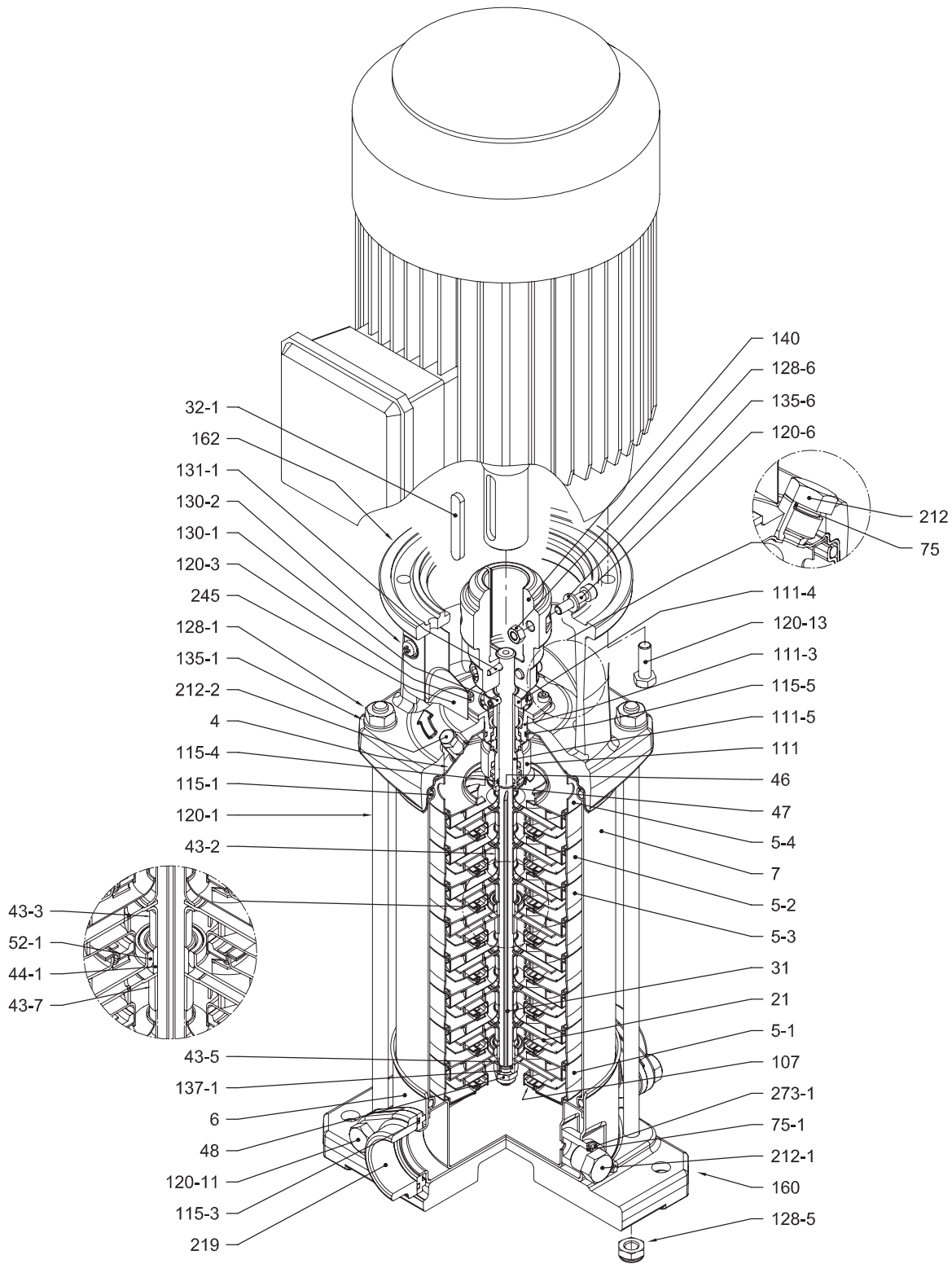


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor				Oval flange (N)			Loose round flange (LF) Round flange (F)		Victaulic® connection (V) Clamp connection (C)					
		kW	Size	A	3 ~ B C H3	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor		
EVMS(L)3 2/0.37	1.6	0.37	71	Ø105	139	114	216	250	9.9	15.7	275	10.6	16.4	250	9.8	15.6
EVMS(L)3 3/0.55	1.6	0.55	71	Ø105	139	114	216	271	10.3	16.5	296	11	17.2	271	10.3	16.5
EVMS(L)3 4/0.75	1.6	0.75	80	Ø120	141	102	233	302	11	19.5	327	11.6	20.1	302	10.9	19.4
EVMS(L)3 5/0.75	1.6	0.75	80	Ø120	141	102	233	323	11.4	19.9	348	12.1	20.6	323	11.3	19.8
EVMS(L)3 6/1.1	1.6	1.1	80	Ø120	141	102	244	344	11.8	21.8	369	12.5	22.5	344	11.7	21.7
EVMS(L)3 7/1.1	1.6	1.1	80	Ø120	141	102	244	365	12.2	22.2	390	12.9	22.9	365	12.2	22.2
EVMS(L)3 8/1.5	1.6	1.5	90	Ø140	160	119	291	396	12.7	26.2	421	13.3	26.8	396	12.6	26.1
EVMS(L)3 9/1.5	1.6	1.5	90	Ø140	160	119	291	417	13.1	26.6	442	13.7	27.2	417	13	26.5
EVMS(L)3 10/1.5	1.6	1.5	90	Ø140	160	119	291	438	13.5	27	463	14.2	27.7	438	13.4	26.9
EVMS(L)3 11/2.2	1.6	2.2	90	Ø140	160	119	291	459	13.9	28.9	484	14.6	29.6	459	13.8	28.8
EVMS(L)3 12/2.2	1.6	2.2	90	Ø140	160	119	291	480	14.3	29.3	505	14.9	29.9	480	14.2	29.2
EVMS(L)3 13/2.2	1.6	2.2	90	Ø140	160	119	291	501	15	30	526	15.7	30.7	501	15	30
EVMS(L)3 14/2.2	1.6	2.2	90	Ø140	160	119	291	522	15.4	30.4	547	16.1	31.1	522	15.4	30.4
EVMS(L)3 15/3.0	1.6	3.0	100	Ø160	176	123	342	553	16	38	578	16.6	38.6	553	15.9	37.9
EVMS(L)3 16/3.0	2.5	3.0	100	Ø160	176	123	342	-	-	-	599	17.6	39.6	574	16.9	38.9
EVMS(L)3 17/3.0	2.5	3.0	100	Ø160	176	123	342	-	-	-	620	18.1	40.1	595	17.3	39.3
EVMS(L)3 19/3.0	2.5	3.0	100	Ø160	176	123	342	-	-	-	662	19	41	637	18.2	40.2
EVMS(L)3 20/3.0	2.5	3.0	100	Ø160	176	123	342	-	-	-	683	19.4	41.4	658	18.7	40.7
EVMS(L)3 21/4.0	2.5	4.0	112	Ø160	193	138	364	-	-	-	704	19.9	48.4	679	19.1	47.6
EVMS(L)3 22/4.0	2.5	4.0	112	Ø160	193	138	364	-	-	-	725	20.3	48.8	700	19.6	48.1
EVMS(L)3 23/4.0	2.5	4.0	112	Ø160	193	138	364	-	-	-	746	20.8	49.3	721	20	48.5

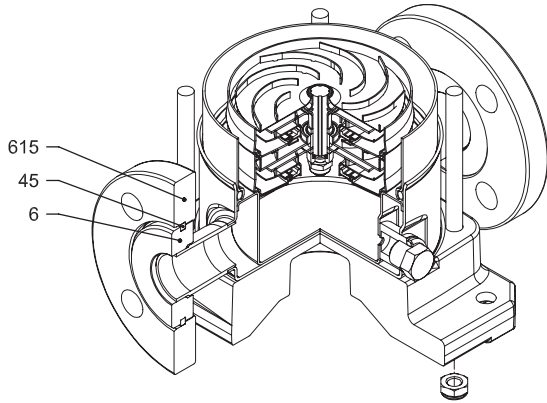
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMS(L)3

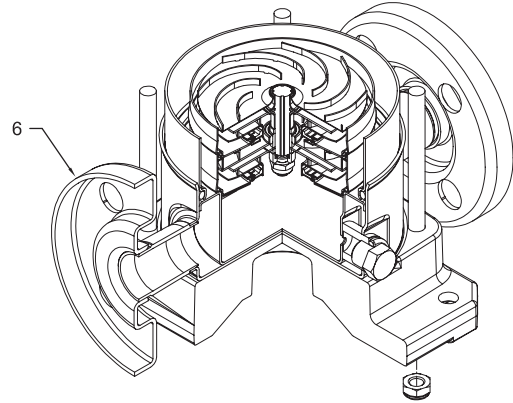


with Oval flange (N)

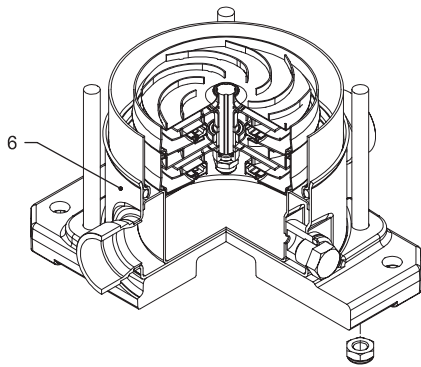
PIPE CONNECTION EVMS(L)3



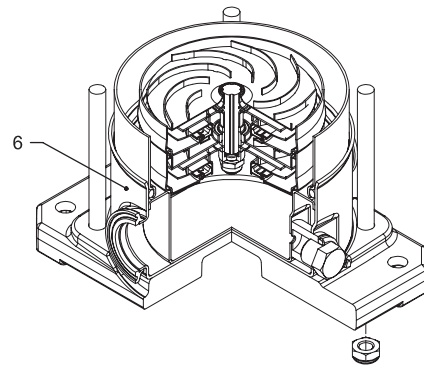
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE
EVMS(L)3

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-7	Spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M8	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM		Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS		
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
115-1	O-Ring (outer casing)	EPDM / FPM		Ø129.54x5.34	OR 6510
115-3	O-Ring	EPDM / FPM			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM		Ø11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM / FPM		Ø32.99x2.62	OR 3131
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		M10	
120-3	Screw	A2-70 UNI 7323		M4x10	ISO 4762
120-6	Screw for coupling	Galvanized steel		M6x25	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	MEC 71-80	Galvanized steel 8.8 strenght class ISO 898/1	M6x20	ISO 4017
		MEC 90-100-112		M8x20	ISO 4017
128-1	Nut for tie rod	Galvanized steel		M10	UNI 5588
128-5	Nut for tie rod	A2-70 UNI 7323		M10	UNI 7474
128-6	Nut for coupling	Galvanized steel		M6	ISO 4032
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		Ø4x32	UNI 4838
135-1	Washer	Galvanized steel		Ø10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel		Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	up to 4.0 kW Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
160	Base	Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
615	Flange	Nodular Cast Iron			

QUANTITY FOR MODEL EVMS(L)3

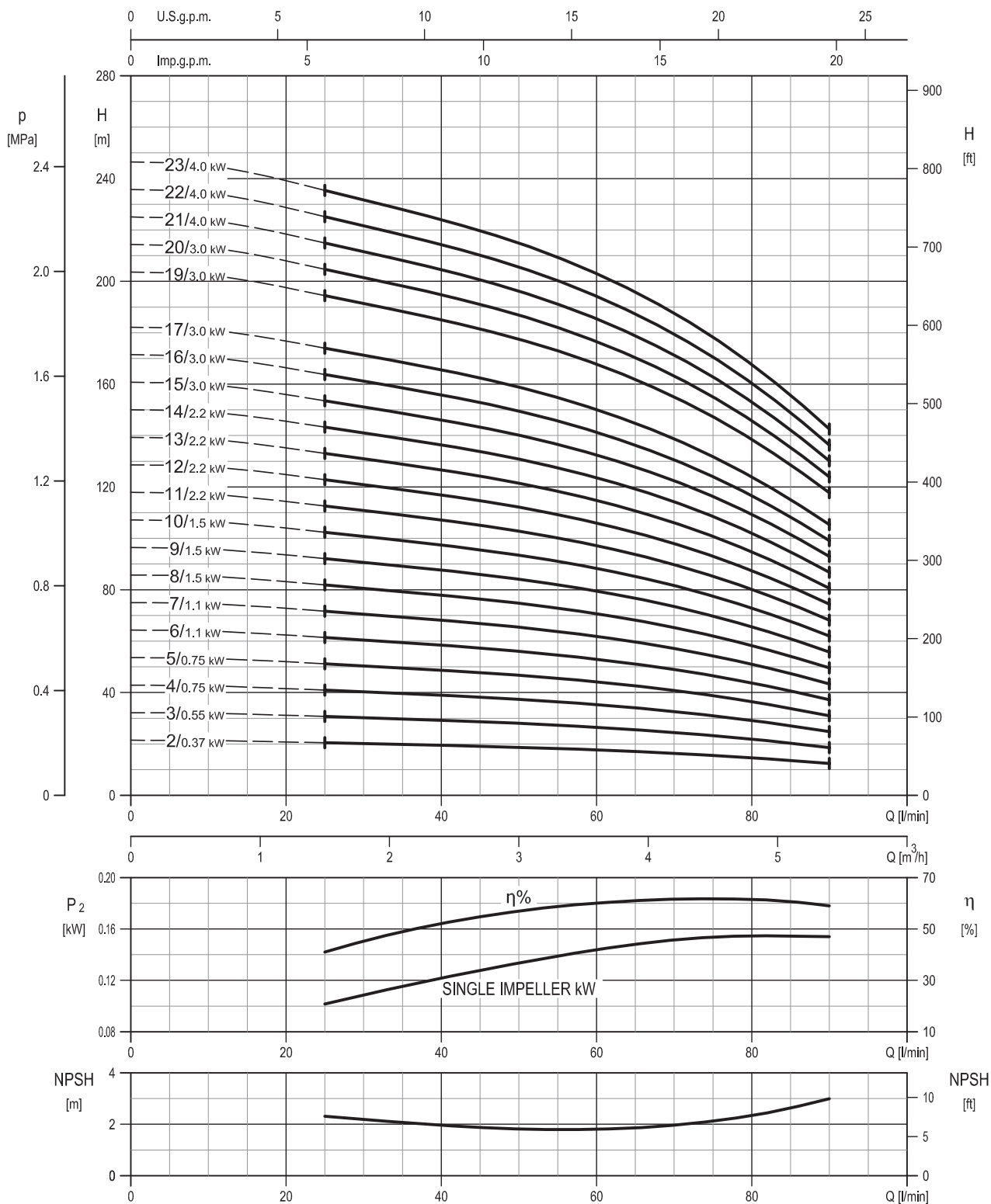
Pump Type	N°																															
	4	5-1	52	53	54	6	7	21	31	32-1	43-2	43-3	43-5	43-7	44-1	45*	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5	
EVMS(L)3 2/0.37	1	1	/	1	1	1	1	2	1	1	1	1	/	/	1	4	2	1	1	1	1	4	2	1	1	1	1	1	2	2	1	1
EVMS(L)3 3/0.55	1	1	1	1	1	1	1	3	1	1	3	1	/	/	1	4	2	1	1	1	1	4	3	1	1	1	1	2	2	1	1	
EVMS(L)3 4/0.75	1	1	2	1	1	1	1	4	1	1	5	1	/	/	1	4	2	1	1	1	1	4	4	1	1	1	1	2	2	1	1	
EVMS(L)3 5/0.75	1	1	3	1	1	1	1	5	1	1	7	1	/	/	1	4	2	1	1	1	1	4	5	1	1	1	1	2	2	1	1	
EVMS(L)3 6/1.1	1	1	4	1	1	1	1	6	1	1	9	1	/	/	1	4	2	1	1	1	1	4	6	1	1	1	1	2	2	1	1	
EVMS(L)3 7/1.1	1	1	5	1	1	1	1	7	1	1	11	1	/	/	1	4	2	1	1	1	1	4	7	1	1	1	1	2	2	1	1	
EVMS(L)3 8/1.5	1	1	6	1	1	1	1	8	1	1	13	1	/	/	1	4	2	1	1	1	1	4	8	1	1	1	1	2	2	1	1	
EVMS(L)3 9/1.5	1	1	7	1	1	1	1	9	1	1	15	1	/	/	1	4	2	1	1	1	1	4	9	1	1	1	1	2	2	1	1	
EVMS(L)3 10/1.5	1	1	8	1	1	1	1	10	1	1	17	1	/	/	1	4	2	1	1	1	1	4	10	1	1	1	1	2	2	1	1	
EVMS(L)3 11/2.2	1	1	9	1	1	1	1	11	1	1	19	1	/	/	1	4	2	1	1	1	1	4	11	1	1	1	1	2	2	1	1	
EVMS(L)3 12/2.2	1	1	10	1	1	1	1	12	1	1	21	1	/	/	1	4	2	1	1	1	1	4	12	1	1	1	1	2	2	1	1	
EVMS(L)3 13/2.2	1	1	10	2	1	1	1	13	1	1	20	1	1	1	2	4	2	1	1	2	1	4	13	1	1	1	1	2	2	1	1	
EVMS(L)3 14/2.2	1	1	11	2	1	1	1	14	1	1	22	1	/	/	1	2	4	2	1	1	2	1	4	14	1	1	1	2	2	1	1	
EVMS(L)3 15/3.0	1	1	12	2	1	1	1	15	1	1	24	1	/	/	1	2	4	2	1	1	2	1	4	15	1	1	1	2	2	1	1	
EVMS(L)3 16/3.0	1	1	13	2	1	1	1	16	1	1	26	1	/	/	1	2	4	2	1	1	2	1	4	16	1	1	1	2	/	1	1	
EVMS(L)3 17/3.0	1	1	14	2	1	1	1	17	1	1	28	1	1	1	2	4	2	1	1	2	1	4	17	1	1	1	1	2	/	1	1	
EVMS(L)3 19/3.0	1	1	16	2	1	1	1	19	1	1	32	1	/	/	1	2	4	2	1	1	2	1	4	19	1	1	1	1	2	/	1	1
EVMS(L)3 20/3.0	1	1	17	2	1	1	1	20	1	1	34	1	/	/	1	2	4	2	1	1	2	1	4	20	1	1	1	1	2	/	1	1
EVMS(L)3 21/4.0	1	1	18	2	1	1	1	21	1	1	36	1	1	1	2	4	2	1	1	2	1	4	21	1	1	1	1	2	/	1	1	
EVMS(L)3 22/4.0	1	1	19	2	1	1	1	22	1	1	38	1	/	/	1	2	4	2	1	1	2	1	4	22	1	1	1	1	2	/	1	1
EVMS(L)3 23/4.0	1	1	20	2	1	1	1	23	1	1	40	1	/	/	1	2	4	2	1	1	2	1	4	23	1	1	1	1	2	/	1	1

Pump Type	N°																							
	120-1	120-3	120-6	120-11*	120-13	128-1	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-1	212-2	219*	245	273-1	615**
EVMS(L)3 2/0.37	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 3/0.55	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 4/0.75	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 5/0.75	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 6/1.1	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 7/1.1	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 8/1.5	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 9/1.5	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 10/1.5	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 11/2.2	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 12/2.2	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 13/2.2	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 14/2.2	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 15/3.0	4	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)3 16/3.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)3 17/3.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)3 19/3.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)3 20/3.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)3 21/4.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)3 22/4.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)3 23/4.0	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2

* only for Oval flange (N)

** only for Loose round flange (LF)

PERFORMANCE CURVE
EVMSG3

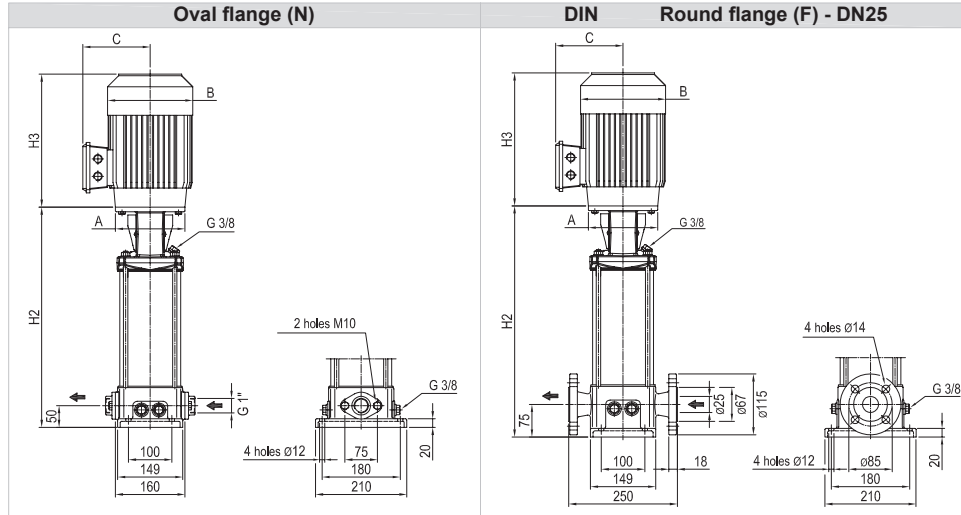


Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

EVMSG3

TECHNICAL DATA EVMSG3

Dimensional sketch



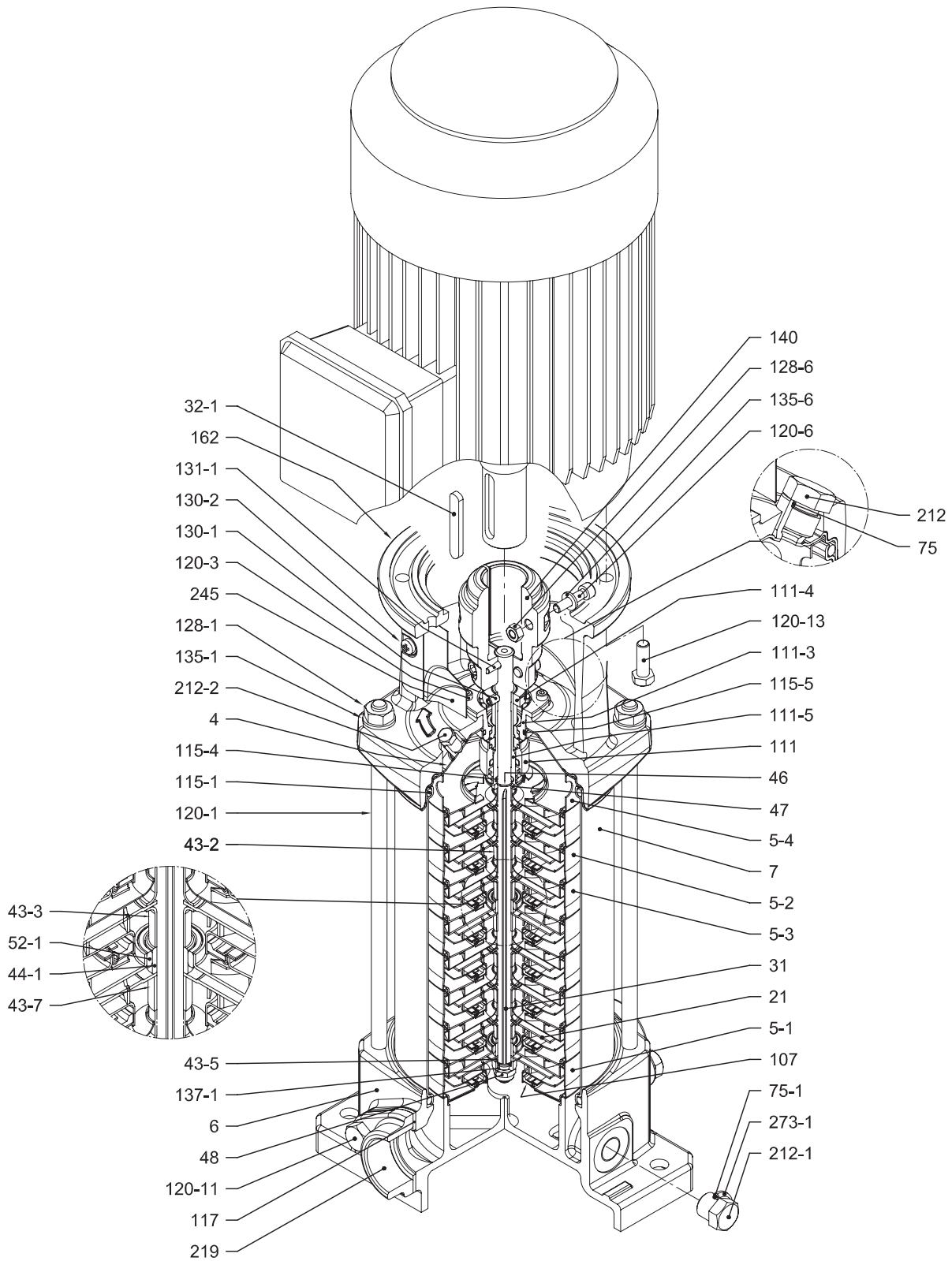
Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Oval flange (N)			Round flange (F)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
				B	C	H3							
EVMSG3 2/0.37	1.6	0.37	71	ø105	139	114	216	250	12.3	18.1	275	15.7	21.5
EVMSG3 3/0.55	1.6	0.55	71	ø105	139	114	216	271	12.7	18.9	296	16.1	22.3
EVMSG3 4/0.75	1.6	0.75	80	ø120	141	102	233	302	13.4	21.9	327	16.8	25.3
EVMSG3 5/0.75	1.6	0.75	80	ø120	141	102	233	323	13.8	22.3	348	17.2	25.7
EVMSG3 6/1.1	1.6	1.1	80	ø120	141	102	244	344	14.2	24.2	369	17.6	27.6
EVMSG3 7/1.1	1.6	1.1	80	ø120	141	102	244	365	14.6	24.6	390	18	28
EVMSG3 8/1.5	1.6	1.5	90	ø140	160	119	291	396	15	28.5	421	18.4	31.9
EVMSG3 9/1.5	1.6	1.5	90	ø140	160	119	291	417	15.5	29	442	18.9	32.4
EVMSG3 10/1.5	1.6	1.5	90	ø140	160	119	291	438	15.9	29.4	463	19.3	32.8
EVMSG3 11/2.2	1.6	2.2	90	ø140	160	119	291	459	16.3	31.3	484	19.7	34.7
EVMSG3 12/2.2	1.6	2.2	90	ø140	160	119	291	480	16.6	31.6	505	20	35
EVMSG3 13/2.2	1.6	2.2	90	ø140	160	119	291	501	17.4	32.4	526	20.8	35.8
EVMSG3 14/2.2	1.6	2.2	90	ø140	160	119	291	522	17.8	32.8	547	21.2	36.2
EVMSG3 15/3.0	1.6	3.0	100	ø160	176	123	342	553	18.3	40.3	578	21.7	43.7
EVMSG3 16/3.0	2.5	3.0	100	ø160	176	123	342	-	-	-	599	22.7	44.7
EVMSG3 17/3.0	2.5	3.0	100	ø160	176	123	342	-	-	-	620	23.2	45.2
EVMSG3 19/3.0	2.5	3.0	100	ø160	176	123	342	-	-	-	662	24.1	46.1
EVMSG3 20/3.0	2.5	3.0	100	ø160	176	123	342	-	-	-	683	24.5	46.5
EVMSG3 21/4.0	2.5	4.0	112	ø160	193	138	364	-	-	-	704	25	53.5
EVMSG3 22/4.0	2.5	4.0	112	ø160	193	138	364	-	-	-	725	25.4	53.9
EVMSG3 23/4.0	2.5	4.0	112	ø160	193	138	364	-	-	-	746	25.9	54.4

1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

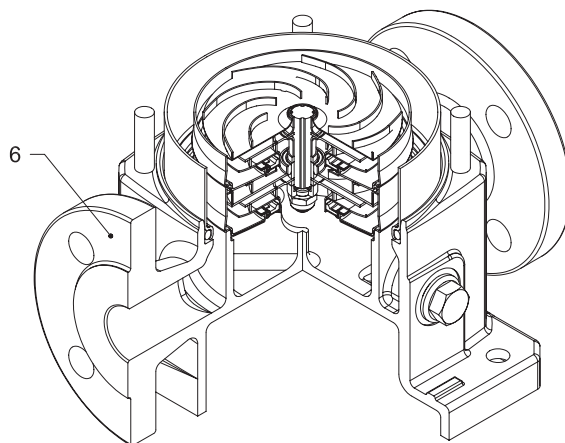
SECTIONAL VIEW
EVMSG3

EVMSG3



with Oval flange (N)

PIPE CONNECTION EVMSG3



with Round flange (F)

SECTIONAL TABLE
EVMSG3

N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD
4	Casing cover	EN 1.4301 (AISI 304)		
5-1	Suction casing	EN 1.4301 (AISI 304)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)		
5-4	Discharge casing	EN 1.4301 (AISI 304)		
6	Bottom casing	Cast Iron EN G.JL-250EE1551		
7	Outer casing	EN 1.4301 (AISI 304)		
21	Impeller	EN 1.4301 (AISI 304)		
31	Shaft	EN 1.4301 (AISI 304)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		
43-7	Spacer	EN 1.4301 (AISI 304)		
44-1	Shaft sleeve bearing	Tungsten carbide		
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)		
47	Ring Holder	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M8	
52-1	Bearing	Tungsten carbide		
75	O-Ring (plug)	EPDM / FPM	Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM		
107	Liner ring	EN 1.4301 (AISI 304) + PPS		
111	Mechanical Seal	SiC/Carbon/EPDM / FPM		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		
111-4	Seal holder	EN 1.4301 (AISI 304)		
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)		
115-1	O-Ring (outer casing)	EPDM / FPM	Ø129.54x5.34	OR 6510
115-4	O-Ring (cartridge sleeve)	EPDM / FPM	Ø11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM / FPM	Ø32.99x2.62	OR 3131
117	Flange gasket	EPDM / FPM		
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1	M10	
120-3	Screw	A2-70 UNI 7323	M4x10	ISO 4762
120-6	Screw for coupling	Galvanized steel	M6x25	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323		
120-13	Screw for motor	MEC 71-80 MEC 90-100-112	Galvanized steel 8.8 strenght class ISO 898/1	M6x20 ISO 4017 M8x20 ISO 4017
128-1	Nut for tie rod	Galvanized steel	M10	UNI 5588
128-6	Nut for coupling	Galvanized steel	M6	ISO 4032
130-1	Set screw	A2-70 UNI 7323	M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel	Ø4x32	UNI 4838
135-1	Washer	Galvanized steel	Ø10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel	Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)		
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe)	
162	Motor bracket	Cast iron EN-G.JL-200-EN 1561		
212	Plug	EN 1.4301 (AISI 304)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)		
219	Counter flange	Galvanized steel		
245	Coupling guard	EN 1.4301 (AISI 304)		
273-1	Plug Washer	EN 1.4301 (AISI 304)		

QUANTITY FOR MODEL EVMSG3

2.9

EVMSG3

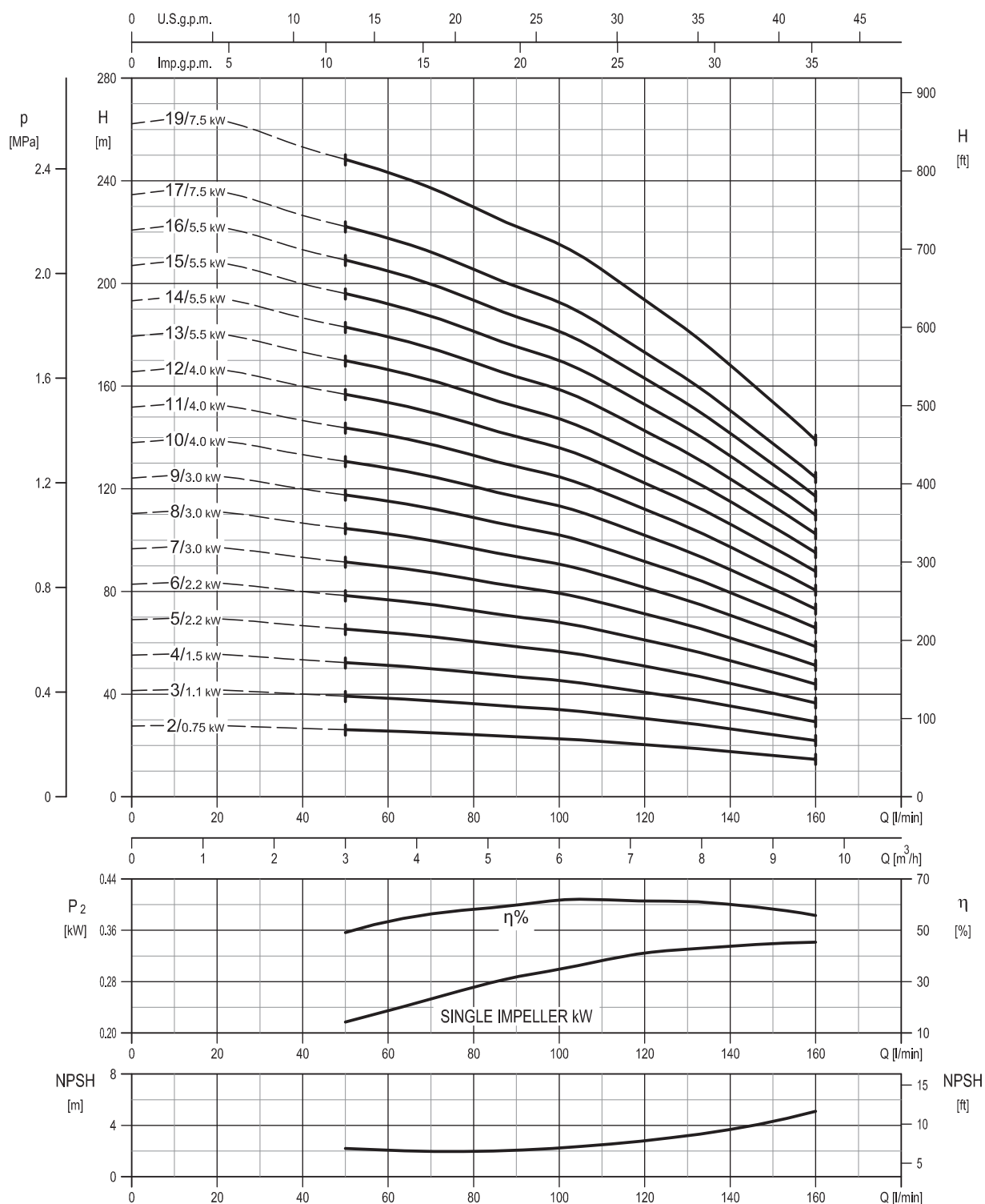
Pump Type	N°																												
	4	5-1	52	53	54	6	7	21	31	32-1	43-2	43-3	43-5	43-7	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5
EVMSG3 2/0.37	1	1	/	1	1	1	1	2	1	1	1	1	/	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1
EVMSG3 3/0.55	1	1	1	1	1	1	1	3	1	1	3	1	/	/	1	2	1	1	1	1	4	3	1	1	1	1	2	1	1
EVMSG3 4/0.75	1	1	2	1	1	1	1	4	1	1	5	1	/	/	1	2	1	1	1	1	4	4	1	1	1	1	2	1	1
EVMSG3 5/0.75	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	2	1	1	1	1	4	5	1	1	1	1	2	1	1
EVMSG3 6/1.1	1	1	4	1	1	1	1	6	1	1	9	1	/	/	1	2	1	1	1	1	4	6	1	1	1	1	2	1	1
EVMSG3 7/1.1	1	1	5	1	1	1	1	7	1	1	11	1	/	/	1	2	1	1	1	1	4	7	1	1	1	1	2	1	1
EVMSG3 8/1.5	1	1	6	1	1	1	1	8	1	1	13	1	/	/	1	2	1	1	1	1	4	8	1	1	1	1	2	1	1
EVMSG3 9/1.5	1	1	7	1	1	1	1	9	1	1	15	1	1	/	1	2	1	1	1	1	4	9	1	1	1	1	2	1	1
EVMSG3 10/1.5	1	1	8	1	1	1	1	10	1	1	17	1	/	/	1	2	1	1	1	1	4	10	1	1	1	1	2	1	1
EVMSG3 11/2.2	1	1	9	1	1	1	1	11	1	1	19	1	/	/	1	2	1	1	1	1	4	11	1	1	1	1	2	1	1
EVMSG3 12/2.2	1	1	10	1	1	1	1	12	1	1	21	1	/	/	1	2	1	1	1	1	4	12	1	1	1	1	2	1	1
EVMSG3 13/2.2	1	1	10	2	1	1	1	13	1	1	20	1	1	1	2	2	1	1	2	1	4	13	1	1	1	1	2	1	1
EVMSG3 14/2.2	1	1	11	2	1	1	1	14	1	1	22	1	/	1	2	2	1	1	2	1	4	14	1	1	1	1	2	1	1
EVMSG3 15/3.0	1	1	12	2	1	1	1	15	1	1	24	1	/	1	2	2	1	1	2	1	4	15	1	1	1	1	2	1	1
EVMSG3 16/3.0	1	1	13	2	1	1	1	16	1	1	26	1	/	1	2	2	1	1	2	1	4	16	1	1	1	1	2	1	1
EVMSG3 17/3.0	1	1	14	2	1	1	1	17	1	1	28	1	1	1	2	2	1	1	2	1	4	17	1	1	1	1	2	1	1
EVMSG3 19/3.0	1	1	16	2	1	1	1	19	1	1	32	1	/	1	2	2	1	1	2	1	4	19	1	1	1	1	2	1	1
EVMSG3 20/3.0	1	1	17	2	1	1	1	20	1	1	34	1	/	1	2	2	1	1	2	1	4	20	1	1	1	1	2	1	1
EVMSG3 21/4.0	1	1	18	2	1	1	1	21	1	1	36	1	1	1	2	2	1	1	2	1	4	21	1	1	1	1	2	1	1
EVMSG3 22/4.0	1	1	19	2	1	1	1	22	1	1	38	1	/	1	2	2	1	1	2	1	4	22	1	1	1	1	2	1	1
EVMSG3 23/4.0	1	1	20	2	1	1	1	23	1	1	40	1	/	1	2	2	1	1	2	1	4	23	1	1	1	1	2	1	1

Pump Type	N°																					
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG3 2/0.37	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 3/0.55	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 4/0.75	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 5/0.75	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 6/1.1	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 7/1.1	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 8/1.5	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 9/1.5	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 10/1.5	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 11/2.2	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 12/2.2	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 13/2.2	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 14/2.2	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 15/3.0	2	4	4	4	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG3 16/3.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG3 17/3.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG3 19/3.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG3 20/3.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG3 21/4.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG3 22/4.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG3 23/4.0	/	4	4	4	/	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4

* only for Oval flange (N)

PERFORMANCE CURVE
EVMS(L)5

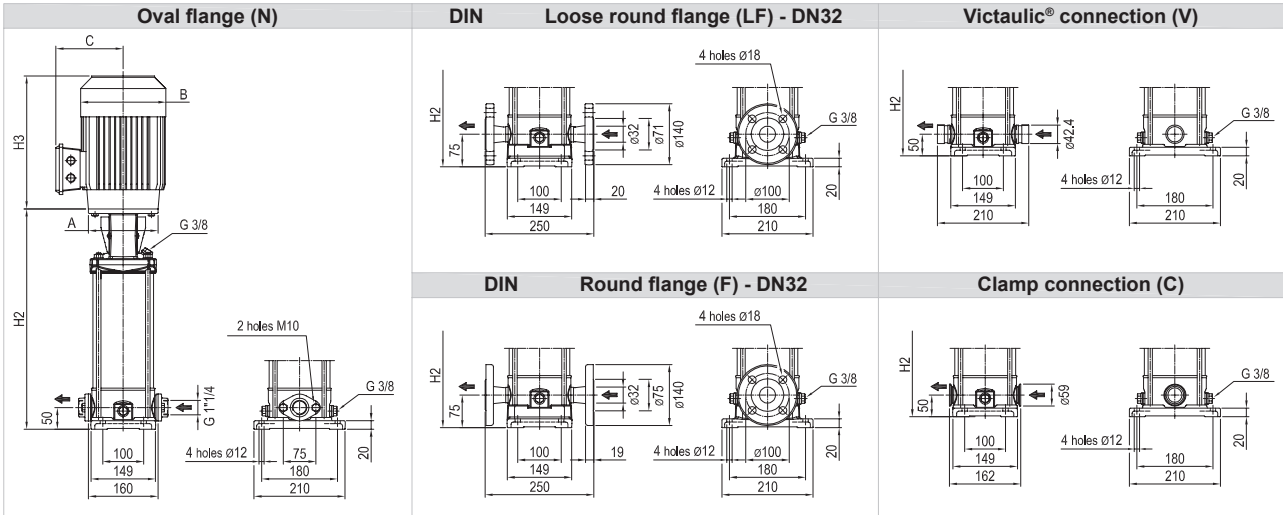
EVMS(L)5



Rotation speed ≈ 3500 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMS(L)5

Dimensional sketch

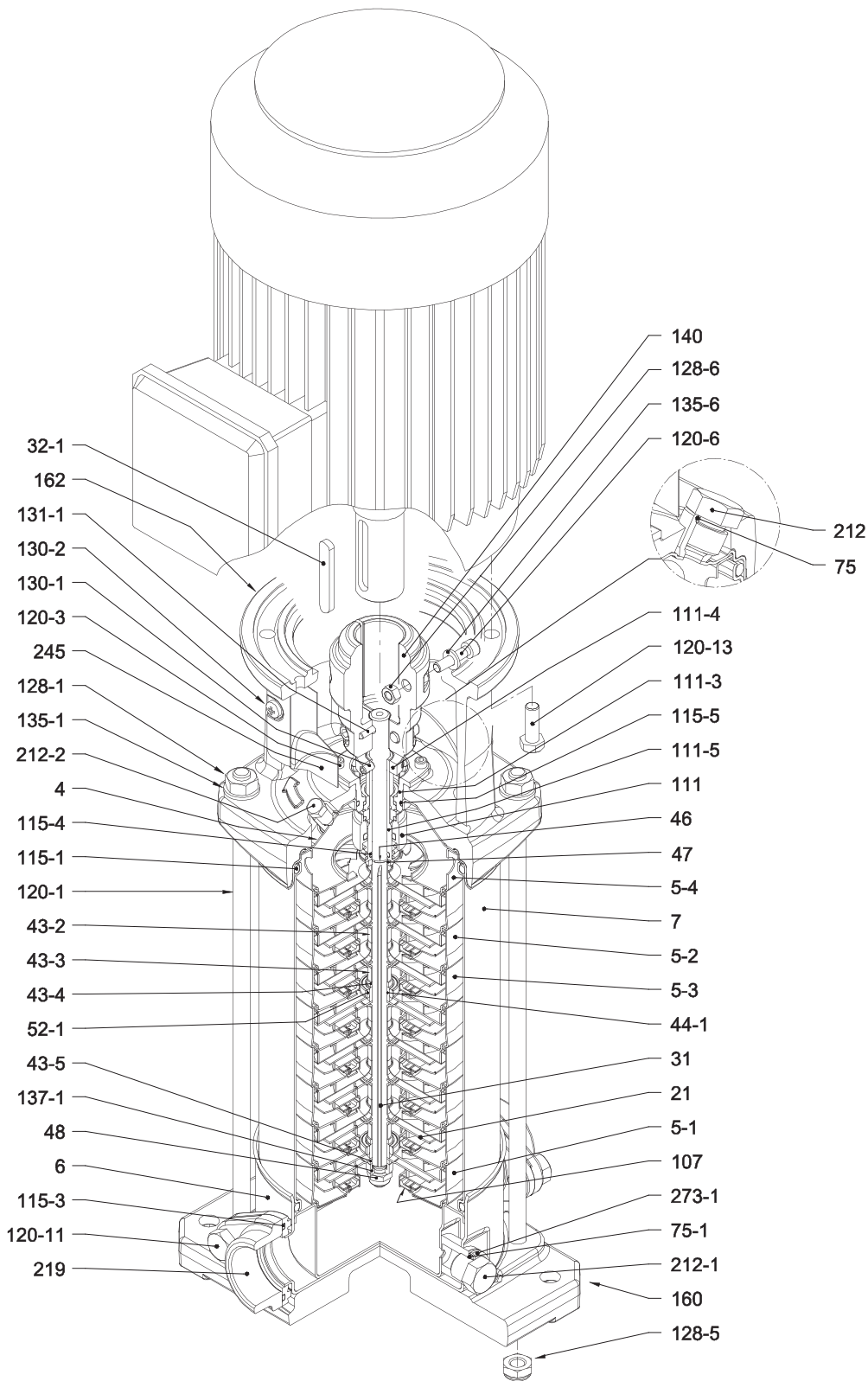


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax. [MPa]	Motor				Oval flange (N)			Loose round flange (LF) Round flange (F)			Victaulic® connection (V) Clamp connection (C)				
		kW	Size	A	3 ~	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor		
EVMS(L)5 2/0.75	1.6	0.75	80	Ø120	141	102	233	274	9.8	18.3	299	10.8	19.3	274	9.7	18.2
EVMS(L)5 3/1.1	1.6	1.1	80	Ø120	141	102	244	302	10.2	20.2	327	11.3	21.3	302	10.2	20.2
EVMS(L)5 4/1.5	1.6	1.5	90	Ø140	160	119	291	340	11	24.5	365	12	25.5	340	10.9	24.4
EVMS(L)5 5/2.2	1.6	2.2	90	Ø140	160	119	291	368	11.4	26.4	393	12.5	27.5	368	11.4	26.4
EVMS(L)5 6/2.2	1.6	2.2	90	Ø140	160	119	291	396	11.9	26.9	421	12.9	27.9	396	11.8	26.8
EVMS(L)5 7/3.0	1.6	3.0	100	Ø160	176	123	342	434	12.7	34.7	459	13.7	35.7	434	12.6	34.6
EVMS(L)5 8/3.0	1.6	3.0	100	Ø160	176	123	342	462	13	35	487	14	36	462	12.9	34.9
EVMS(L)5 9/3.0	1.6	3.0	100	Ø160	176	123	342	490	13.4	35.4	515	14.5	36.5	490	13.4	35.4
EVMS(L)5 10/4.0	1.6	4.0	112	Ø160	193	138	364	518	13.9	42.4	543	15	43.5	518	13.9	42.4
EVMS(L)5 11/4.0	1.6	4.0	112	Ø160	193	138	364	546	14.7	43.2	571	15.7	44.2	546	14.6	43.1
EVMS(L)5 12/4.0	1.6	4.0	112	Ø160	193	138	364	574	15.8	44.3	599	16.8	45.3	574	15.7	44.2
EVMS(L)5 13/5.5	2.5	5.5	132	Ø300	220	152	399	-	-	-	721	23.9	62.9	696	22.8	61.8
EVMS(L)5 14/5.5	2.5	5.5	132	Ø300	220	152	399	-	-	-	749	24.4	63.4	724	23.3	62.3
EVMS(L)5 15/5.5	2.5	5.5	132	Ø300	220	152	399	-	-	-	777	24.9	63.9	752	23.8	62.8
EVMS(L)5 16/5.5	2.5	5.5	132	Ø300	220	152	399	-	-	-	805	25.5	64.5	780	24.4	63.4
EVMS(L)5 17/7.5	2.5	7.5	132	Ø300	220	152	419	-	-	-	833	26.1	72.1	808	25	71
EVMS(L)5 19/7.5	2.5	7.5	132	Ø300	220	152	419	-	-	-	889	27	73	864	25.9	71.9

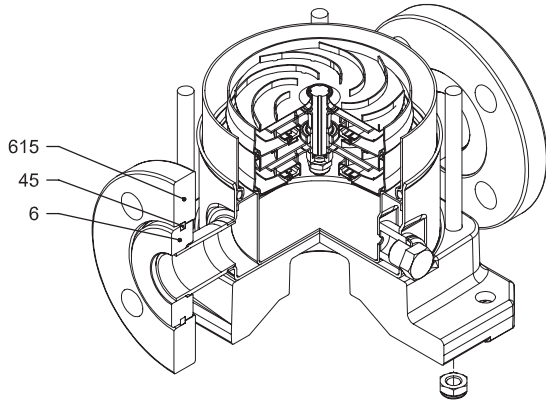
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMS(L)5

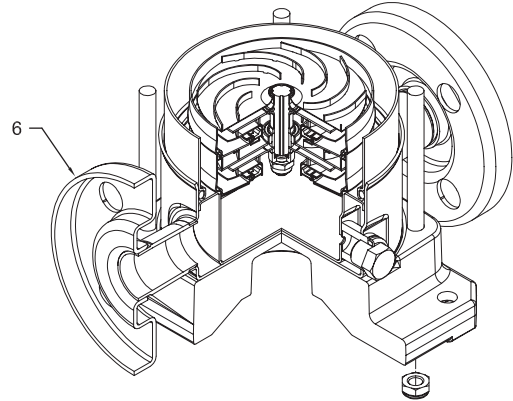


with Oval flange (N)

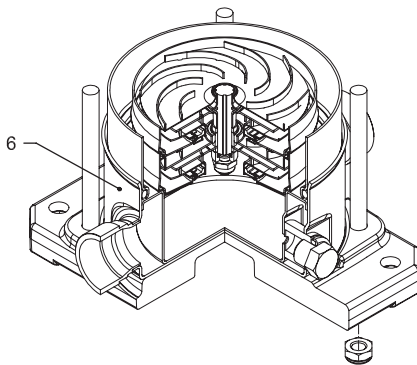
PIPE CONNECTION EVMS(L)5



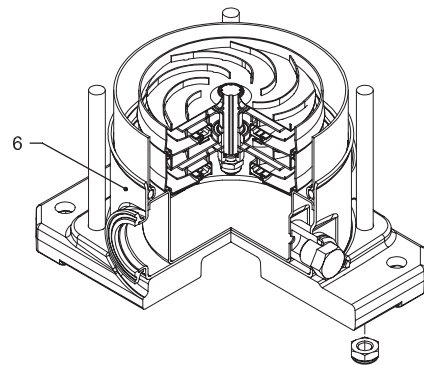
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE
EVMS(L)5

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)	EN 1.4404 (AISI 316L) - EN 1.4462 (AISI 329A)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)	EN 1.4404 (AISI 316L)			
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M8	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM		Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS		
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
115-1	O-Ring (outer casing)	EPDM / FPM		Ø129.54x5.34	OR 6510
115-3	O-Ring	EPDM / FPM			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM		Ø11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM / FPM		Ø32.99x2.62	OR 3131
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		M10	
120-3	Screw	A2-70 UNI 7323		M4x10	ISO 4762
120-6	Screw for coupling	up to 4.0 kW above 5.5 kW	Galvanized steel	M6x25 M8x20	ISO 4762 ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	MEC 80 MEC 90-100-112 MEC 132	Galvanized steel 8.8 strenght class ISO 898/1	M6x20 M8x20 M12x40	ISO 4017 ISO 4017 ISO 4017
128-1	Nut for tie rod	Galvanized steel		M10	UNI 5588
128-3	Nut (motor)	Galvanized steel		M12	ISO 4032
128-5	Nut for tie rod	A2-70 UNI 7323		M10	UNI 7474
128-6	Nut for coupling	Galvanized steel		M6	ISO 4032
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		Ø4x32	UNI 4838
135-1	Washer	Galvanized steel		Ø10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel		Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	up to 4.0 kW above 5.5 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe) Cast Iron		
160	Base	Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
615	Flange	Nodular Cast Iron			

QUANTITY FOR MODEL EVMS(L)5

Pump Type	N°																															
	4	5-1	52	53	54	6	7	21	31***	32-1	43-2	43-3	43-4	43-5	44-1	45**	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5	
EVMS(L)5 2/0.55	1	1	/	1	1	1	1	2	1	1	1	1	1	/	1	4	2	1	1	1	1	2	2	1	1	1	1	2	2	1	1	1
EVMS(L)5 3/1.1	1	1	1	1	1	1	1	3	1	1	3	1	1	1	1	4	2	1	1	1	1	2	3	1	1	1	1	2	2	1	1	1
EVMS(L)5 4/1.5	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	4	2	1	1	1	1	2	4	1	1	1	1	2	2	1	1	1
EVMS(L)5 5/2.2	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	4	2	1	1	1	1	2	5	1	1	1	1	2	2	1	1	1
EVMS(L)5 6/2.2	1	1	4	1	1	1	1	6	1	1	9	1	1	1	1	4	2	1	1	1	1	2	6	1	1	1	1	2	2	1	1	1
EVMS(L)5 7/3.0	1	1	5	1	1	1	1	7	1	1	11	1	1	/	1	4	2	1	1	1	1	2	7	1	1	1	1	2	2	1	1	1
EVMS(L)5 8/3.0	1	1	6	1	1	1	1	8	1	1	13	1	1	/	1	4	2	1	1	1	1	2	8	1	1	1	1	2	2	1	1	1
EVMS(L)5 9/3.0	1	1	7	1	1	1	1	9	1	1	15	1	1	1	1	4	2	1	1	1	1	2	9	1	1	1	1	2	2	1	1	1
EVMS(L)5 10/4.0	1	1	8	1	1	1	1	10	1	1	17	1	1	/	1	4	2	1	1	1	1	2	10	1	1	1	1	2	2	1	1	1
EVMS(L)5 11/4.0	1	1	8	2	1	1	1	11	1	1	17	2	2	/	2	4	2	1	1	2	1	2	11	1	1	1	1	2	2	1	1	1
EVMS(L)5 12/4.0	1	1	9	2	1	1	1	12	1	1	19	2	2	1	2	4	2	1	1	2	1	2	12	1	1	1	1	2	2	1	1	1
EVMS(L)5 13/5.5	1	1	10	2	1	1	1	13	1	1	21	2	2	/	2	4	2	1	1	2	1	2	13	1	1	1	1	2	/	1	1	1
EVMS(L)5 14/5.5	1	1	11	2	1	1	1	14	1	1	23	2	2	/	2	4	2	1	1	2	1	2	14	1	1	1	1	2	/	1	1	1
EVMS(L)5 15/5.5	1	1	12	2	1	1	1	15	1	1	25	2	2	1	2	4	2	1	1	2	1	2	15	1	1	1	1	2	/	1	1	1
EVMS(L)5 16/5.5	1	1	13	2	1	1	1	16	1	1	27	2	2	/	2	4	2	1	1	2	1	2	16	1	1	1	1	2	/	1	1	1
EVMS(L)5 17/7.5	1	1	14	2	1	1	1	17	1	1	29	2	2	/	2	4	2	1	1	2	1	2	17	1	1	1	1	2	/	1	1	1
EVMS(L)5 19/7.5	1	1	16	2	1	1	1	19	1	1	33	2	2	/	2	4	2	1	1	2	1	2	19	1	1	1	1	2	/	1	1	1

Pump Type	N°																								
	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-1	212-2	219*	245	273-1	615**
EVMS(L)5 2/0.55	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 3/1.1	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 4/1.5	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 5/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 6/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 7/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 8/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 9/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 10/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 11/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 12/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)5 13/5.5	4	4	4	/	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)5 14/5.5	4	4	4	/	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)5 15/5.5	4	4	4	/	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)5 16/5.5	4	4	4	/	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)5 17/7.5	4	4	4	/	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)5 19/7.5	4	4	4	/	4	4	4	4	4	3	4	1	4	4	1	2	1	1	1	2	1	/	2	2	2

* only for Oval flange (N)

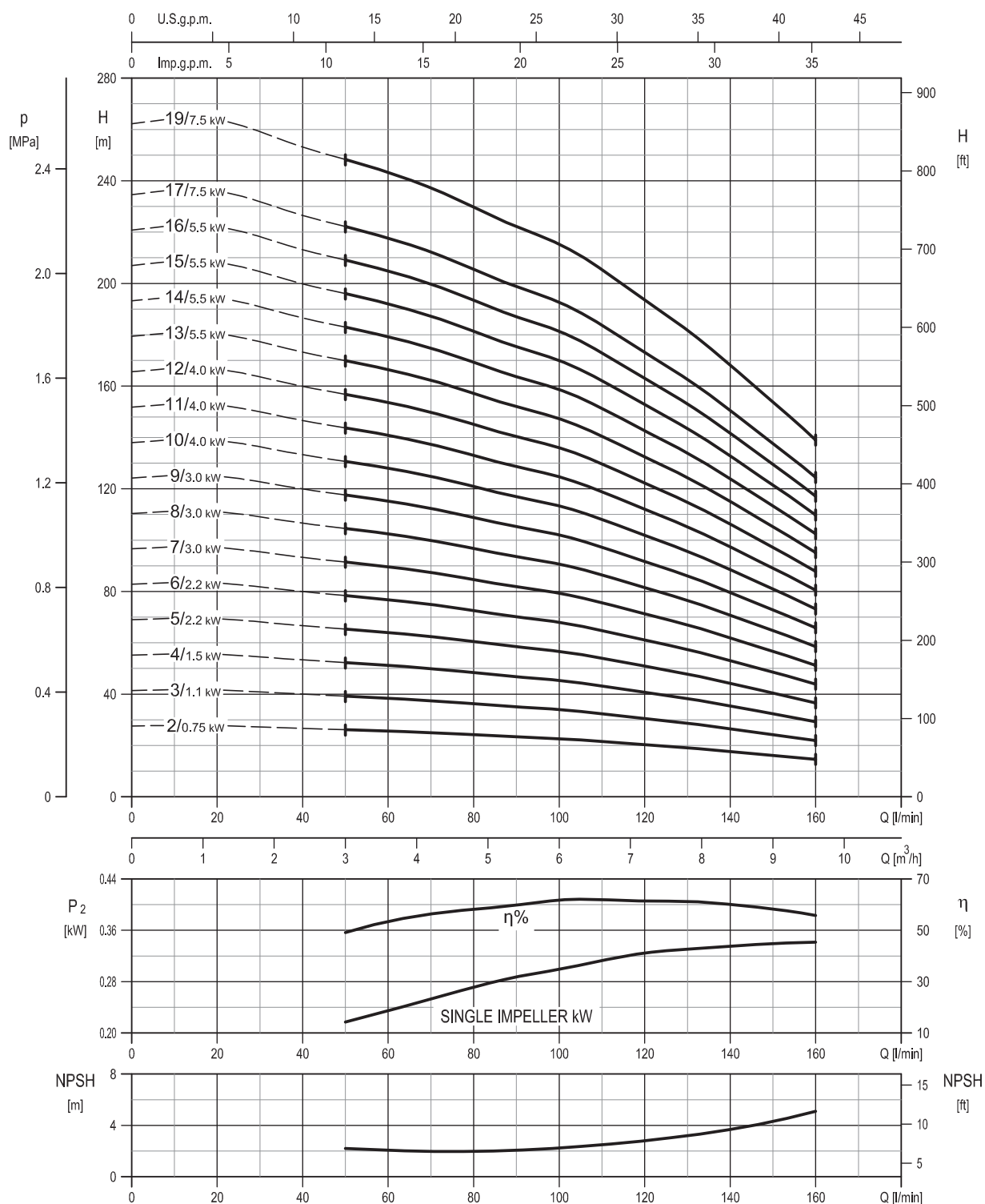
** only for Loose round flange (LF)

** shaft in EN 1.4462 (AISI 329A)

128-3: only for motor above 5.5 kW (see drawing pag.247)

PERFORMANCE CURVE
EVMSG5

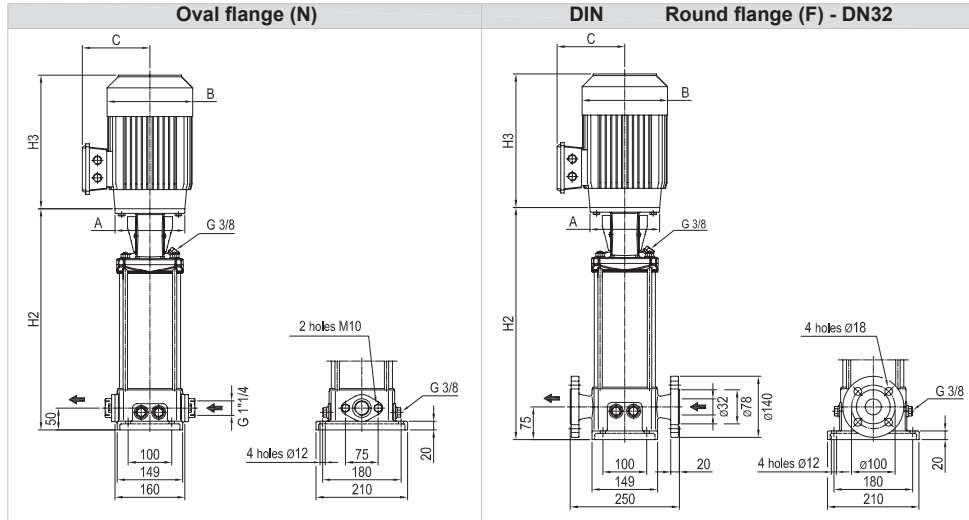
EVMSG5



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMSG5

Dimensional sketch

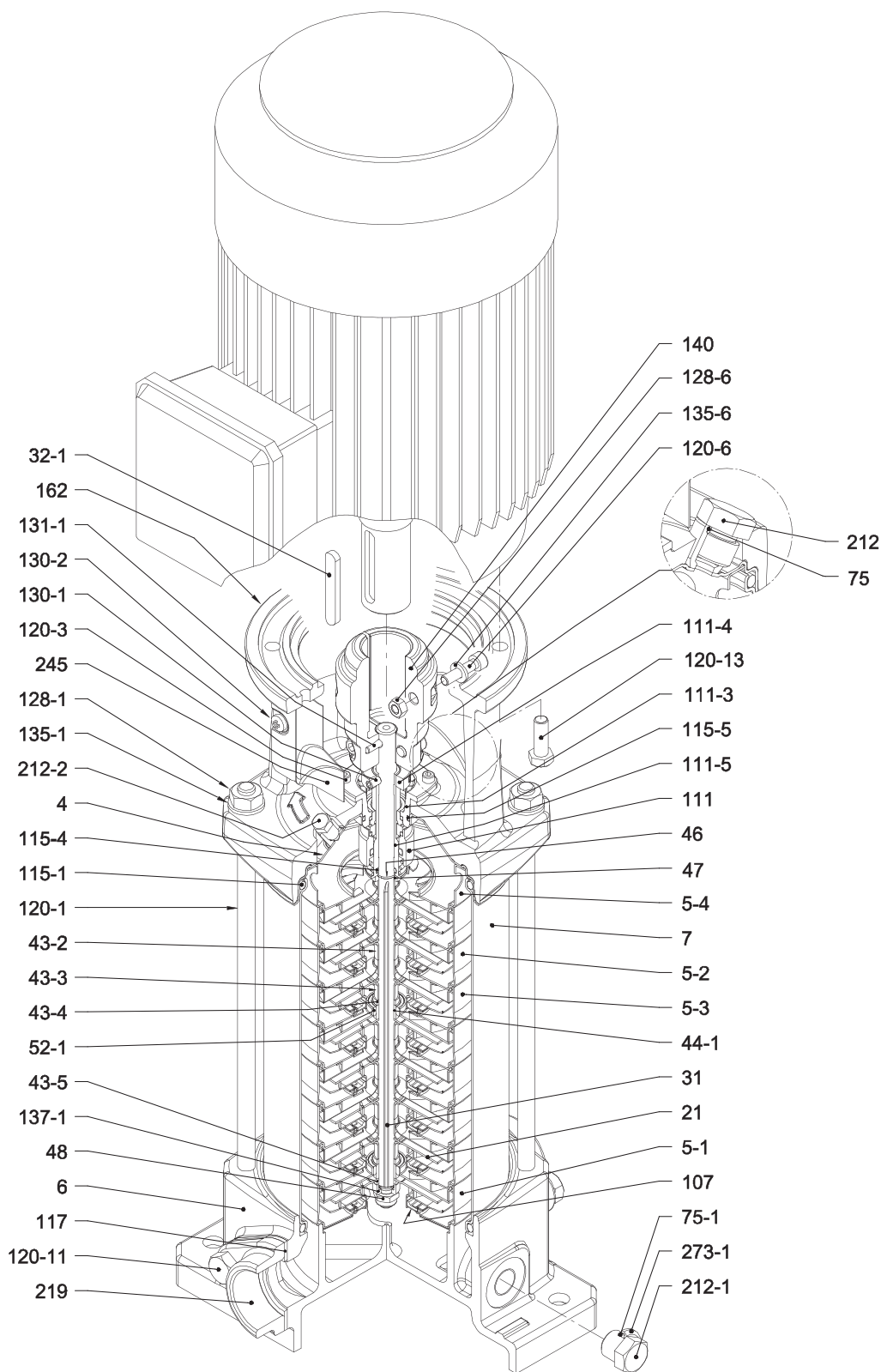


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Oval flange (N)			Round flange (F)		
		kW	Size	A	B	C	H3	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
EVMSG5 2/0.75	1.6	0.75	80	ø120	141	102	233	274	10.9	19.4	299	15.9	24.4
EVMSG5 3/1.1	1.6	1.1	80	ø120	141	102	244	302	11.4	21.4	327	16.4	26.4
EVMSG5 4/1.5	1.6	1.5	90	ø140	160	119	291	340	12.1	25.6	365	17.1	30.6
EVMSG5 5/2.2	1.6	2.2	90	ø140	160	119	291	368	12.6	27.6	393	17.6	32.6
EVMSG5 6/2.2	1.6	2.2	90	ø140	160	119	291	396	13.1	28.1	421	18.1	33.1
EVMSG5 7/3.0	1.6	3.0	100	ø160	176	123	342	434	13.8	35.8	459	18.8	40.8
EVMSG5 8/3.0	1.6	3.0	100	ø160	176	123	342	462	14.1	36.1	487	19.1	41.1
EVMSG5 9/3.0	1.6	3.0	100	ø160	176	123	342	490	14.6	36.6	515	19.6	41.6
EVMSG5 10/4.0	1.6	4.0	112	ø160	193	138	364	518	15.1	43.6	543	20.1	48.6
EVMSG5 11/4.0	1.6	4.0	112	ø160	193	138	364	546	15.8	44.3	571	20.8	49.3
EVMSG5 12/4.0	1.6	4.0	112	ø160	193	138	364	574	16.9	45.4	599	21.9	50.4
EVMSG5 13/5.5	2.5	5.5	132	ø300	220	152	399	-	-	-	721	29	68
EVMSG5 14/5.5	2.5	5.5	132	ø300	220	152	399	-	-	-	749	29.5	68.5
EVMSG5 15/5.5	2.5	5.5	132	ø300	220	152	399	-	-	-	777	30	69
EVMSG5 16/5.5	2.5	5.5	132	ø300	220	152	399	-	-	-	805	30.6	69.6
EVMSG5 17/7.5	2.5	7.5	132	ø300	220	152	419	-	-	-	833	31.2	77.2
EVMSG5 19/7.5	2.5	7.5	132	ø300	220	152	419	-	-	-	889	32.1	78.1

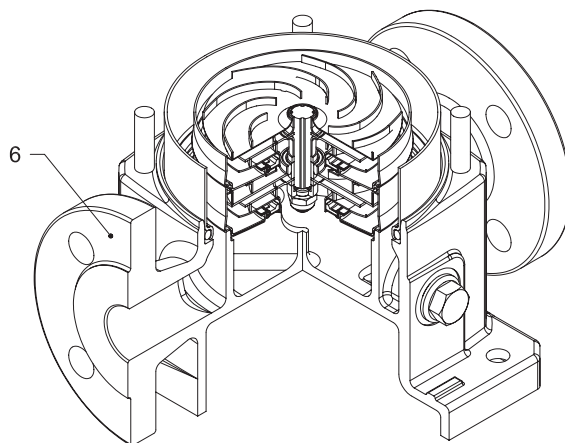
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMSG5



with Oval flange (N)

PIPE CONNECTION EVMSG5



with Round flange (F)

SECTIONAL TABLE
EVMSG5

N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD	
4	Casing cover	EN 1.4301 (AISI 304)			
5-1	Suction casing	EN 1.4301 (AISI 304)			
5-2	Intermediate Casing	EN 1.4301 (AISI 304)			
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)			
5-4	Discharge casing	EN 1.4301 (AISI 304)			
6	Bottom casing	Cast Iron EN GJL-250EE1551			
7	Outer casing	EN 1.4301 (AISI 304)			
21	Impeller	EN 1.4301 (AISI 304)			
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)			
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)			
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)			
43-4	Shaft sleeve (adjustment)	EN 1.4404 (AISI 316L)			
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)			
44-1	Shaft sleeve bearing	Tungsten carbide			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4404 (AISI 316L)			
48	Impeller nut	A2-70 UNI 7323 with inox insert	M8		
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM	Ø12.37x2.62	OR 3050	
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS			
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)			
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)			
115-1	O-Ring (outer casing)	EPDM / FPM	Ø129.54x5.34	OR 6510	
115-4	O-Ring (cartridge sleeve)	EPDM / FPM	Ø11.91x2.62	OR 115	
115-5	O-Ring (seal cover)	EPDM / FPM	Ø32.99x2.62	OR 3131	
117	Flange gasket	EPDM / FPM			
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1	M10		
120-3	Screw	A2-70 UNI 7323	M4x10	ISO 4762	
120-6	Screw for coupling	Galvanized steel	up to 4.0 kW	M6x25	ISO 4762
			above 5.5 kW	M8x20	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	Galvanized steel 8.8 strenght class ISO 898/1	MEC 80	M6x20	ISO 4017
			MEC 90-100-112	M8x20	ISO 4017
			MEC 132	M12x40	ISO 4017
128-1	Nut for tie rod	Galvanized steel	M10	UNI 5588	
128-3	Nut (motor)	MEC 132	Galvanized steel	M12	ISO 4032
128-6	Nut for coupling	Galvanized steel	M6	ISO 4032	
130-1	Set screw	A2-70 UNI 7323	M5x8	UNI 5923	
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687	
131-1	Pin for shaft	Carbon Steel	Ø4x32	UNI 4838	
135-1	Washer	Galvanized steel	Ø10.5x21x2	UNI 6592	
135-6	Washer	Carbon Steel	Ø6		
137-1	Impeller spacer	EN 1.4301 (AISI 304)			
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe)		
		above 5.5 kW	Cast Iron		
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-1	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	Galvanized steel			
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)			

QUANTITY FOR MODEL EVMSG5

Pump Type	N°																												
	4	5-1	52	53	54	6	7	21	31***	32-1	43-2	43-3	43-4	43-5	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5
EVMSG5 2/0.55	1	1	/	1	1	1	1	2	1	1	1	1	1	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1
EVMSG5 3/1.1	1	1	1	1	1	1	1	3	1	1	3	1	1	1	1	2	1	1	1	1	4	3	1	1	1	1	2	1	1
EVMSG5 4/1.5	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	2	1	1	1	1	4	4	1	1	1	1	2	1	1
EVMSG5 5/2.2	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	2	1	1	1	1	4	5	1	1	1	1	2	1	1
EVMSG5 6/2.2	1	1	4	1	1	1	1	6	1	1	9	1	1	1	1	2	1	1	1	1	4	6	1	1	1	1	2	1	1
EVMSG5 7/3.0	1	1	5	1	1	1	1	7	1	1	11	1	1	/	1	2	1	1	1	1	4	7	1	1	1	1	2	1	1
EVMSG5 8/3.0	1	1	6	1	1	1	1	8	1	1	13	1	1	/	1	2	1	1	1	1	4	8	1	1	1	1	2	1	1
EVMSG5 9/3.0	1	1	7	1	1	1	1	9	1	1	15	1	1	1	1	2	1	1	1	1	4	9	1	1	1	1	2	1	1
EVMSG5 10/4.0	1	1	8	1	1	1	1	10	1	1	17	1	1	/	1	2	1	1	1	1	4	10	1	1	1	1	2	1	1
EVMSG5 11/4.0	1	1	8	2	1	1	1	11	1	1	17	2	2	/	2	2	1	1	2	1	4	11	1	1	1	1	2	1	1
EVMSG5 12/4.0	1	1	9	2	1	1	1	12	1	1	19	2	2	1	2	2	1	1	2	1	4	12	1	1	1	1	2	1	1
EVMSG5 13/5.5	1	1	10	2	1	1	1	13	1	1	21	2	2	/	2	2	1	1	2	1	4	13	1	1	1	1	2	1	1
EVMSG5 14/5.5	1	1	11	2	1	1	1	14	1	1	23	2	2	/	2	2	1	1	2	1	4	14	1	1	1	1	2	1	1
EVMSG5 15/5.5	1	1	12	2	1	1	1	15	1	1	25	2	2	1	2	2	1	1	2	1	4	15	1	1	1	1	2	1	1
EVMSG5 16/5.5	1	1	13	2	1	1	1	16	1	1	27	2	2	/	2	2	1	1	2	1	4	16	1	1	1	1	2	1	1
EVMSG5 17/7.5	1	1	14	2	1	1	1	17	1	1	29	2	2	/	2	2	1	1	2	1	4	17	1	1	1	1	2	1	1
EVMSG5 19/7.5	1	1	16	2	1	1	1	19	1	1	33	2	2	/	2	2	1	1	2	1	4	19	1	1	1	1	2	1	1

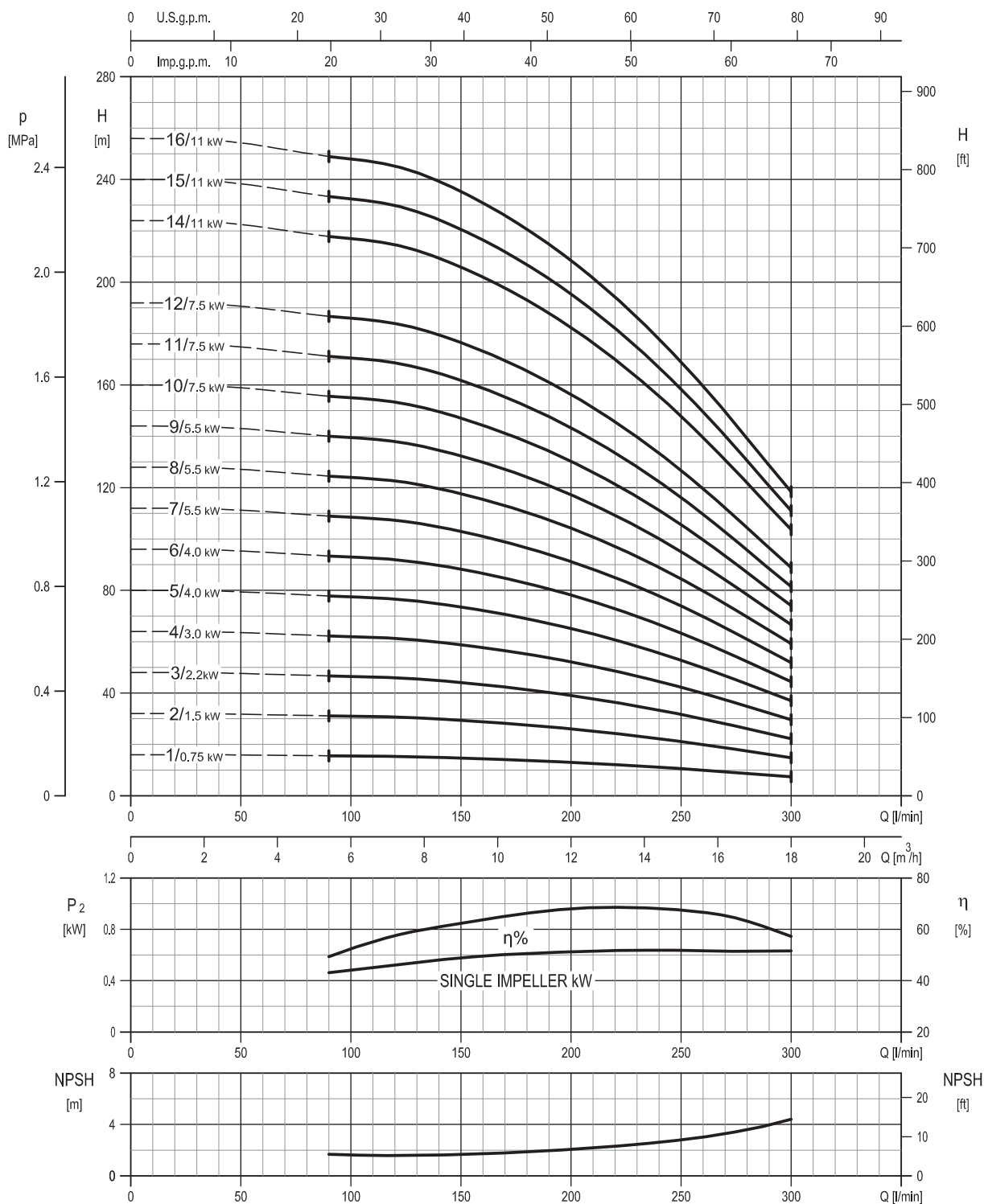
Pump Type	N°																						
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG5 2/0.55	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 3/1.1	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 4/1.5	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 5/2.2	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 6/2.2	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 7/3.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 8/3.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 9/3.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 10/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 11/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 12/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG5 13/5.5	/	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG5 14/5.5	/	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG5 15/5.5	/	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG5 16/5.5	/	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG5 17/7.5	/	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4
EVMSG5 19/7.5	/	4	4	4	/	4	4	4	4	3	4	1	4	4	1	2	1	1	4	1	/	2	4

* only for Oval flange (N)

** shaft in EN 1.4462 (AISI 329A)

128-3: only for motor above 5.5 kW (see drawing pag.247)

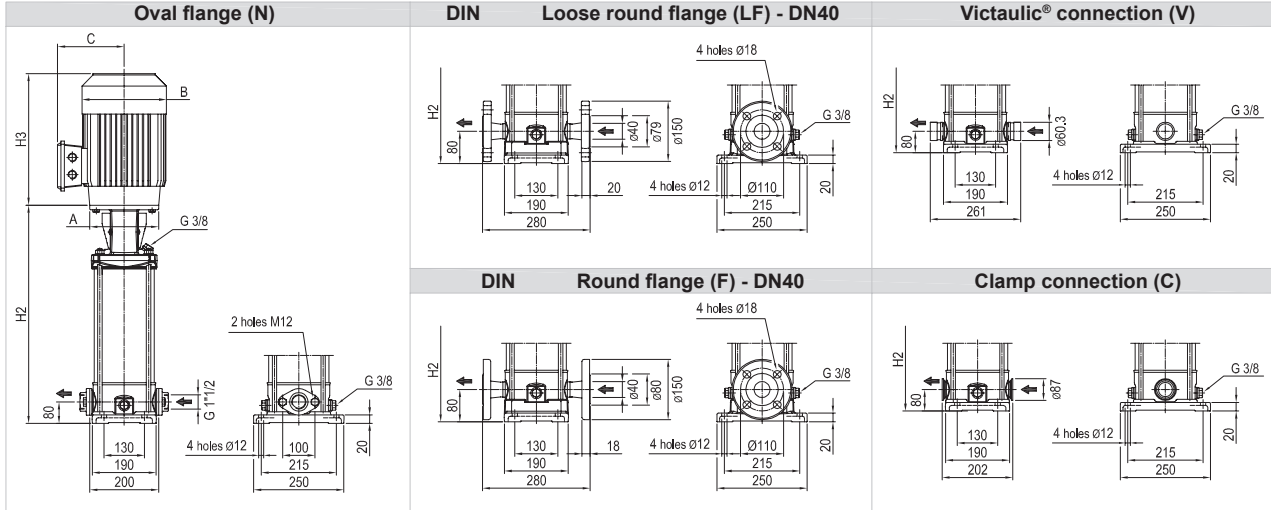
PERFORMANCE CURVE
EVMS(L)10



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMS(L)10

Dimensional sketch

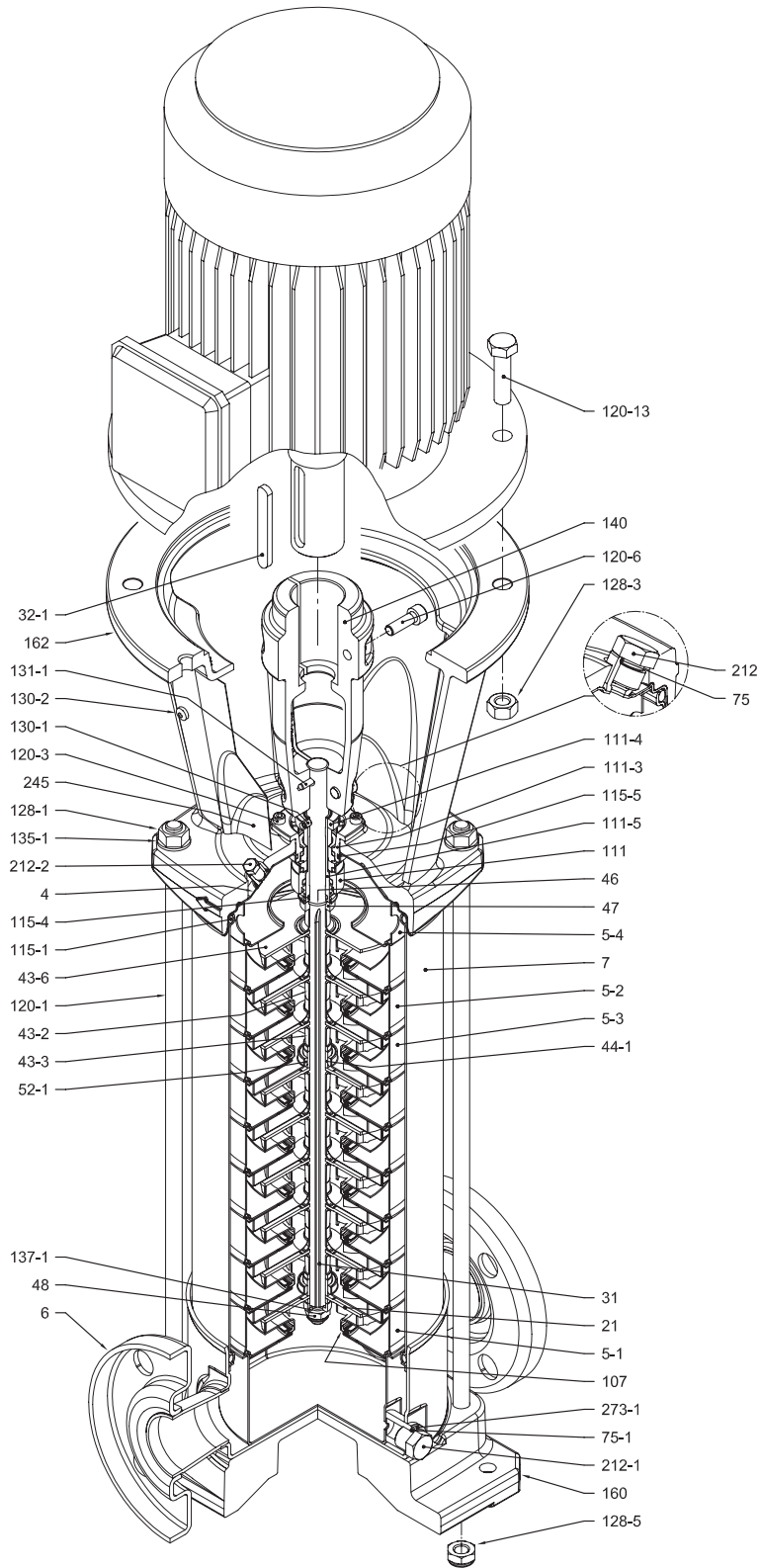


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax. [MPa]	Motor			Oval flange (N)			Loose round flange (LF) Round flange (F)			Victaulic® connection (V) Clamp connection (C)					
		kW	Size	A	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor			
EVMS(L)10 1/0.75	1.6	0.75	80	Ø120	141	102	233	343	19.7	28.2	343	20.7	29.2	343	19.6	28.1
EVMS(L)10 2/1.5	1.6	1.5	90	Ø140	160	119	291	353	19.8	33.3	353	20.9	34.4	353	19.8	33.3
EVMS(L)10 3/2.2	1.6	2.2	90	Ø140	160	119	291	383	20.7	35.7	383	21.7	36.7	383	20.7	35.7
EVMS(L)10 4/3.0	1.6	3.0	100	Ø160	176	123	342	423	21.7	43.7	423	22.7	44.7	423	21.6	43.6
EVMS(L)10 5/4.0	1.6	4.0	112	Ø160	193	138	364	453	22.5	51	453	23.5	52	453	22.5	51
EVMS(L)10 6/4.0	1.6	4.0	112	Ø160	193	138	364	483	23.3	51.8	483	24.4	52.9	483	23.3	51.8
EVMS(L)10 7/5.5	1.6	5.5	132	Ø300	220	152	399	611	31.2	70.2	611	32.3	71.3	611	31.2	70.2
EVMS(L)10 8/5.5	1.6	5.5	132	Ø300	220	152	399	641	32.4	71.4	641	33.5	72.5	641	32.4	71.4
EVMS(L)10 9/5.5	1.6	5.5	132	Ø300	220	152	399	671	33.3	72.3	671	34.3	73.3	671	33.2	72.2
EVMS(L)10 10/7.5	1.6	7.5	132	Ø300	220	152	419	701	34.1	80.1	701	35.1	81.1	701	34.1	80.1
EVMS(L)10 11/7.5	2.5	7.5	132	Ø300	220	152	419	-	-	-	731	36.8	82.8	731	35.7	81.7
EVMS(L)10 12/7.5	2.5	7.5	132	Ø300	220	152	419	-	-	-	761	37.7	83.7	761	36.6	82.6
EVMS(L)10 14/11	2.5	11	160	Ø350	259	180	440	-	-	-	851	47.7	110.2	851	46.6	109.1
EVMS(L)10 15/11	2.5	11	160	Ø350	259	180	440	-	-	-	881	48.6	111.1	881	47.6	110.1
EVMS(L)10 16/11	2.5	11	160	Ø350	259	180	440	-	-	-	911	49.5	112	911	48.5	111

1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

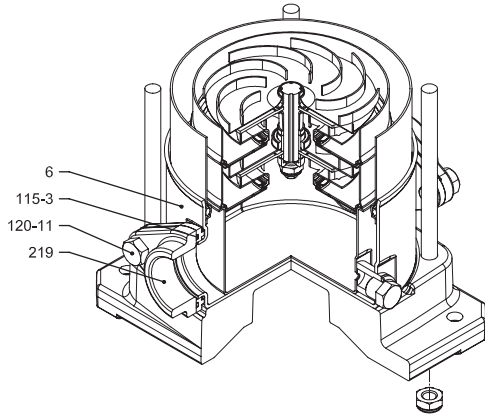
SECTIONAL VIEW
EVMS(L)10



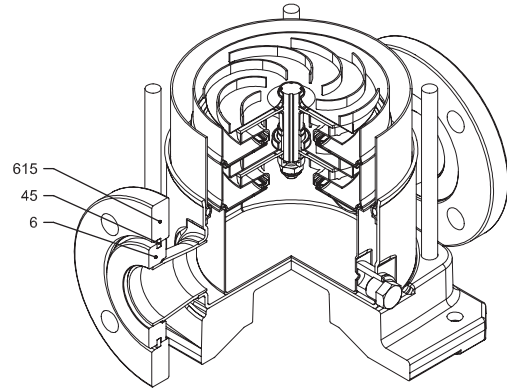
with Round flange (F)

PIPE CONNECTION EVMS(L)10

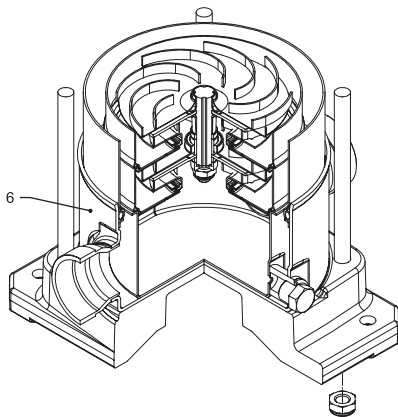
2.11



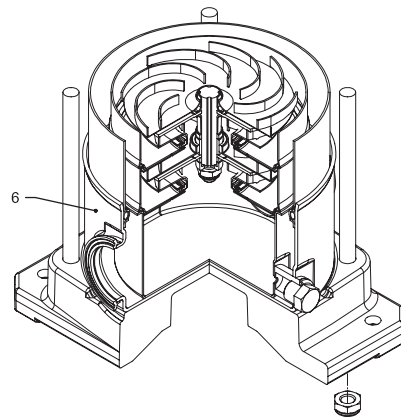
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

EVMS(L)10

SECTIONAL TABLE
EVMS(L)10

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-6	Washer	EN 1.4404 (AISI 316L)			
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)		Ø26x1.2	
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M10	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM		Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS		
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
115-1	O-Ring (outer casing)	EPDM / FPM		Ø164.46x5.34	OR 6645
115-3	O-Ring	EPDM / FPM			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM		Ø15.88x2.62	OR 121
115-5	O-Ring (seal cover)	EPDM / FPM		Ø37.77x2.62	OR 3150
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		M12	
120-3	Screw	A2-70 UNI 7323		M5x12	ISO 4762
120-6	Screw for coupling from	up to 4.0 kW	Galvanized steel	M6x25	ISO 4762
		from 5.5 kW to 7.5 kW		M8x20	ISO 4762
		above 11 kW		M10x30	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	MEC 80	Galvanized steel 8.8 strenght class ISO 898/1	M6x20	ISO 4017
		MEC 90-100-112		M8x20	ISO 4017
		MEC 132		M12x40	UNI 5739
		MEC 160		M16x50	ISO 4017
128-1	Nut for tie rod	Galvanized steel		M12	UNI 5588
128-3	Nut (motor)	MEC 132	Galvanized steel	M12	UNI 5588
		MEC 160		M16	ISO 4032
128-5	Nut for tie rod	Galvanized steel		M12	UNI 7474
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		Ø5x35	UNI 4838
135-1	Washer	Galvanized steel		Ø13x24x2.5	UNI 6592
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI111 Cu2 (Fe)		
		above 5.5 kW	Cast Iron		
160	Base	Die cast Aluminium EN AB-AISI111 Cu2 (Fe)			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
615	Flange	Nodular Cast Iron			

QUANTITY FOR MODEL EVMS(L)10

2.11

EVMS(L)10

Pump Type	N°																														
	4	5-1	52	53	54	6	7	21	31	32-1	43-2	43-3	43-6	44-1	45**	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5	115-5
EVMS(L)10 1/0.75	1	1	/	1	1	1	1	1	1	1	1	1	1	1	4	2	1	1	1	1	2	1	1	1	1	1	2	2	1	1	1
EVMS(L)10 2/1.5	1	1	/	1	1	1	1	2	1	1	1	1	/	1	4	2	1	1	1	1	2	2	1	1	1	1	2	2	1	1	1
EVMS(L)10 3/2.2	1	1	1	1	1	1	1	3	1	1	3	1	/	1	4	2	1	1	1	1	2	3	1	1	1	1	2	2	1	1	1
EVMS(L)10 4/3.0	1	1	2	1	1	1	1	4	1	1	5	1	/	1	4	2	1	1	1	1	2	4	1	1	1	1	2	2	1	1	1
EVMS(L)10 5/4.0	1	1	3	1	1	1	1	5	1	1	7	1	/	1	4	2	1	1	1	1	2	5	1	1	1	1	2	2	1	1	1
EVMS(L)10 6/4.0	1	1	4	1	1	1	1	6	1	1	9	1	/	1	4	2	1	1	1	1	2	6	1	1	1	1	2	2	1	1	1
EVMS(L)10 7/5.5	1	1	5	1	1	1	1	7	1	1	11	1	/	1	4	2	1	1	1	1	2	7	1	1	1	1	2	2	1	1	1
EVMS(L)10 8/5.5	1	1	5	2	1	1	1	8	1	1	11	2	/	2	4	2	1	1	2	1	2	8	1	1	1	1	2	2	1	1	1
EVMS(L)10 9/5.5	1	1	6	2	1	1	1	9	1	1	13	2	/	2	4	2	1	1	2	1	2	9	1	1	1	1	2	2	1	1	1
EVMS(L)10 10/7.5	1	1	7	2	1	1	1	10	1	1	15	2	/	2	4	2	1	1	2	1	2	10	1	1	1	1	2	2	1	1	1
EVMS(L)10 11/7.5	1	1	8	2	1	1	1	11	1	1	17	2	/	2	4	2	1	1	2	1	2	11	1	1	1	1	2	/	1	1	1
EVMS(L)10 12/7.5	1	1	9	2	1	1	1	12	1	1	19	2	/	2	4	2	1	1	2	1	2	12	1	1	1	1	2	/	1	1	1
EVMS(L)10 14/11	1	1	11	2	1	1	1	14	1	1	23	2	/	2	4	2	1	1	2	1	2	14	1	1	1	1	2	/	1	1	1
EVMS(L)10 15/11	1	1	12	2	1	1	1	15	1	1	25	2	/	2	4	2	1	1	2	1	2	15	1	1	1	1	2	/	1	1	1
EVMS(L)10 16/11	1	1	13	2	1	1	1	16	1	1	27	2	/	2	4	2	1	1	2	1	2	16	1	1	1	1	2	/	1	1	1

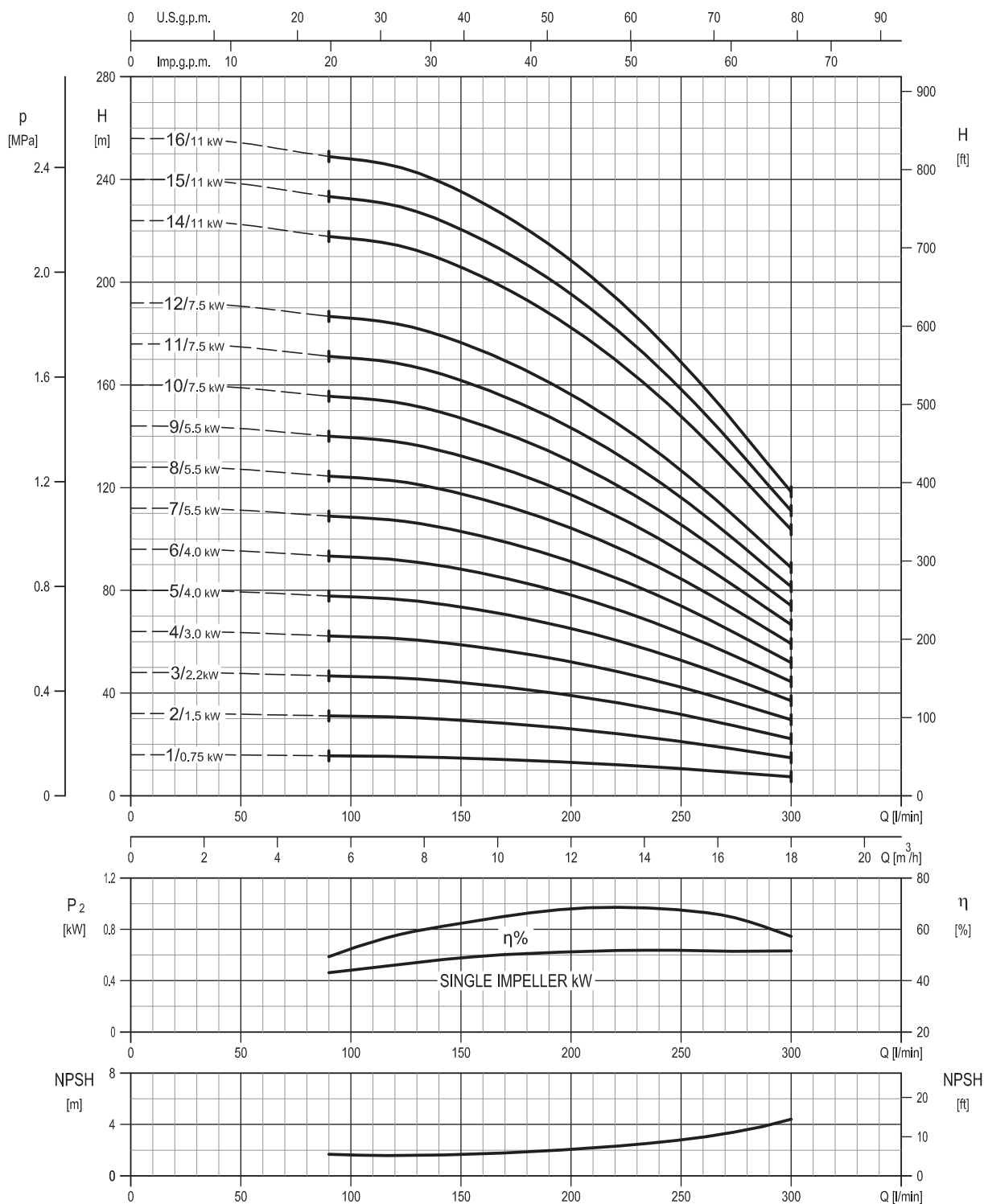
Pump Type	N°																								
	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-1	212-2	219*	245	273-1	615**
EVMS(L)10 1/0.75	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 2/1.5	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 3/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 4/3.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 5/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 6/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 7/5.5	4	4	4	4	4	4	/	4	4	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 8/5.5	4	4	4	4	4	4	/	4	4	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 9/5.5	4	4	4	4	4	4	/	4	4	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 10/7.5	4	4	4	4	4	4	/	4	4	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)10 11/7.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)10 12/7.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)10 14/11	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)10 15/11	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)10 16/11	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2

* only for Oval flange (N)

** only for Loose round flange (LF)

128-6 / 135-6: with Aluminium coupling (see drawing pag.211)

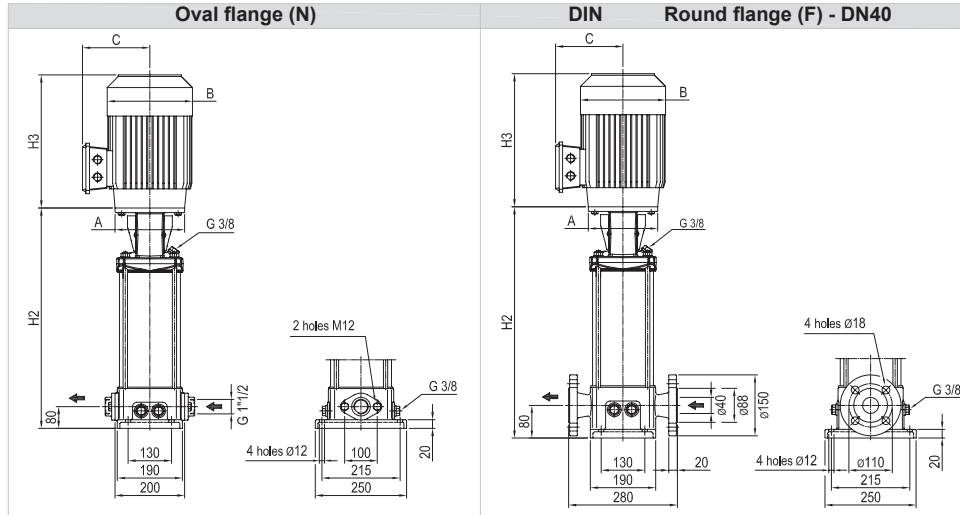
PERFORMANCE CURVE
EVMSG10



Rotation speed $\approx 3500 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMSG10

Dimensional sketch



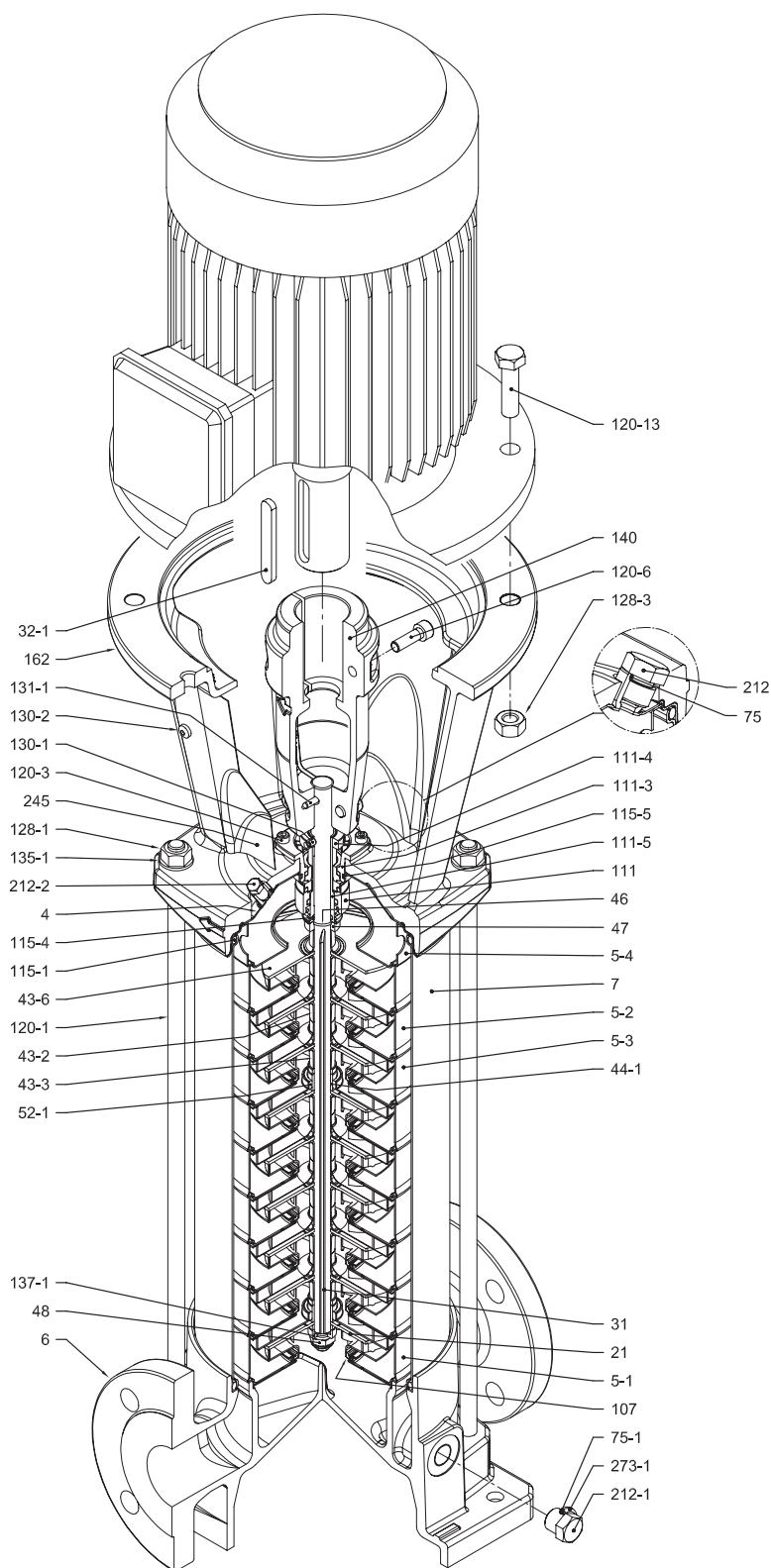
Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Oval flange (N)			Round flange (F)		
		kW	Size	A	B	C	H3	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
EVMSG10 1/0.75	1.6	0.75	80	ø120	141	102	233	343	20.3	28.8	343	24.1	32.6
EVMSG10 2/1.5	1.6	1.5	90	ø140	160	119	291	353	20.5	34	353	24.3	37.8
EVMSG10 3/2.2	1.6	2.2	90	ø140	160	119	291	383	21.4	36.4	383	25.2	40.2
EVMSG10 4/3.0	1.6	3.0	100	ø160	176	123	342	423	22.3	44.3	423	26.1	48.1
EVMSG10 5/4.0	1.6	4.0	112	ø160	193	138	364	453	23.2	51.7	453	27	55.5
EVMSG10 6/4.0	1.6	4.0	112	ø160	193	138	364	483	24	52.5	483	27.8	56.3
EVMSG10 7/5.5	1.6	5.5	132	ø300	220	152	399	611	31.9	70.9	611	35.7	74.7
EVMSG10 8/5.5	1.6	5.5	132	ø300	220	152	399	641	33.1	72.1	641	36.9	75.9
EVMSG10 9/5.5	1.6	5.5	132	ø300	220	152	399	671	33.9	72.9	671	37.7	76.7
EVMSG10 10/7.5	1.6	7.5	132	ø300	220	152	419	701	34.8	80.8	701	38.6	84.6
EVMSG10 11/7.5	2.5	7.5	132	ø300	220	152	419	-	-	-	731	40.2	86.2
EVMSG10 12/7.5	2.5	7.5	132	ø300	220	152	419	-	-	-	761	41.1	87.1
EVMSG10 14/11	2.5	11	160	ø350	259	180	440	-	-	-	851	51.1	113.6
EVMSG10 15/11	2.5	11	160	ø350	259	180	440	-	-	-	881	52.1	114.6
EVMSG10 16/11	2.5	11	160	ø350	259	180	440	-	-	-	911	53	115.5

1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

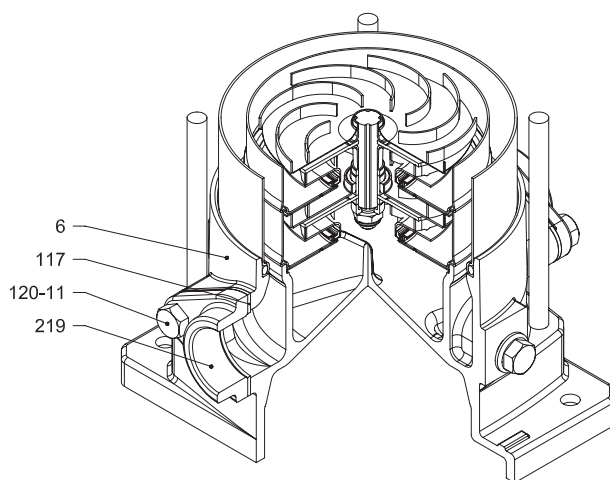
SECTIONAL VIEW
EVMSG10

EVMSG10



with Round flange (F)

PIPE CONNECTION EVMSG10



with Oval flange (N)

EVMSG10

SECTIONAL TABLE
EVMSG10

N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD	
4	Casing cover	EN 1.4301 (AISI 304)			
5-1	Suction casing	EN 1.4301 (AISI 304)			
5-2	Intermediate Casing	EN 1.4301 (AISI 304)			
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)			
5-4	Discharge casing	EN 1.4301 (AISI 304)			
6	Bottom casing	Cast Iron EN GJL-250EN1551			
7	Outer casing	EN 1.4301 (AISI 304)			
21	Impeller	EN 1.4301 (AISI 304)			
31	Shaft	EN 1.4301 (AISI 304)			
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)			
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)			
43-6	Washer	EN 1.4404 (AISI 316L)			
44-1	Shaft sleeve bearing	Tungsten carbide			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)	Ø26x1.2		
47	Ring Holder	EN 1.4404 (AISI 316L)			
48	Impeller nut	A2-70 UNI 7323 with inox insert	M10		
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM	Ø12.37x2.62	OR 3050	
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS			
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)			
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)			
115-1	O-Ring (outer casing)	EPDM / FPM	Ø164.46x5.34	OR 6645	
115-4	O-Ring (cartridge sleeve)	EPDM / FPM	Ø15.88x2.62	OR 121	
115-5	O-Ring (seal cover)	EPDM / FPM	Ø37.77x2.62	OR 3150	
117	Flange gasket	EPDM / FPM			
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1	M12		
120-3	Screw	A2-70 UNI 7323	M5x12	ISO 4762	
120-6	Screw for coupling	Galvanized steel	up to 4.0 kW	M6x25	ISO 4762
			from 5.5 kw to 7.5 kW	M8x20	ISO 4762
			above 11 kW	M10x30	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	Galvanized steel 8.8 strenght class ISO 898/1	MEC 80	M6x20	ISO 4017
			MEC 90-100-112	M8x20	ISO 4017
			MEC 132	M12x40	UNI 5739
			MEC 160	M16x50	ISO 4017
128-1	Nut for tie rod	Galvanized steel	M12	UNI 5588	
128-3	Nut (motor)	Galvanized steel	MEC 132	M12	UNI 5588
			MEC 160	M16	ISO 4032
130-1	Set screw	A2-70 UNI 7323	M5x8	UNI 5923	
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687	
131-1	Pin for shaft	Carbon Steel	Ø5x35	UNI 4838	
135-1	Washer	Galvanized steel	Ø13x24x2.5	UNI 6592	
137-1	Impeller spacer	EN 1.4301 (AISI 304)			
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe)		
		above 5.5 kW	Cast Iron		
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-1	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	Galvanized steel			
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)			

QUANTITY FOR MODEL EVMSG10

2.11

EVMSG10

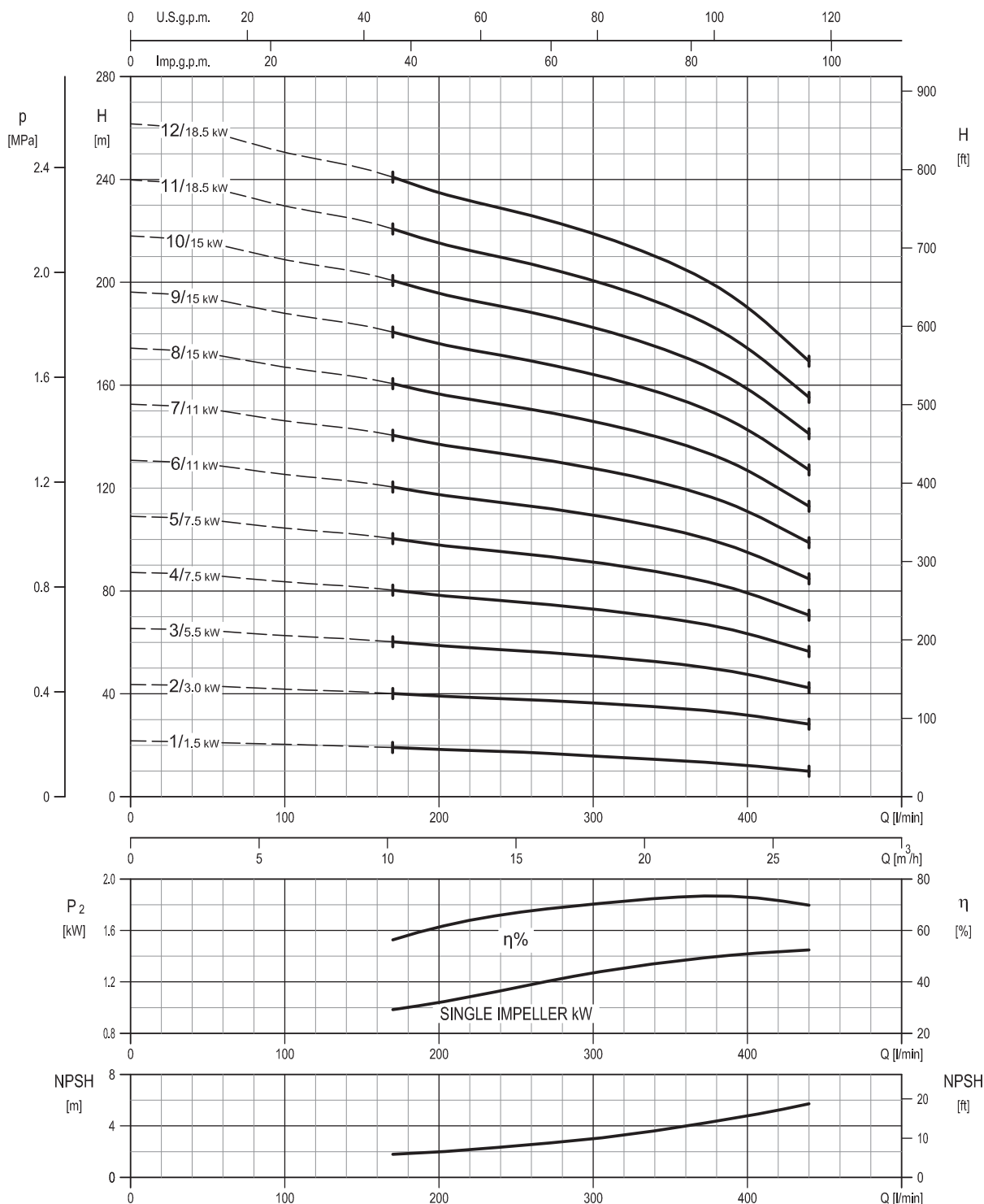
Pump Type	N°																												
	4	5-1	52	53	54	6	7	21	31	32-1	43-2	43-3	43-6	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5	115-5
EVMSG10 1/0.75	1	1	/	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	4	1	1	1	1	1	2	1	1	1
EVMSG10 2/1.5	1	1	/	1	1	1	1	2	1	1	1	1	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1	1
EVMSG10 3/2.2	1	1	1	1	1	1	1	3	1	1	3	1	/	1	2	1	1	1	1	4	3	1	1	1	1	2	1	1	1
EVMSG10 4/3.0	1	1	2	1	1	1	1	4	1	1	5	1	/	1	2	1	1	1	1	4	4	1	1	1	1	2	1	1	1
EVMSG10 5/4.0	1	1	3	1	1	1	1	5	1	1	7	1	/	1	2	1	1	1	1	4	5	1	1	1	1	2	1	1	1
EVMSG10 6/4.0	1	1	4	1	1	1	1	6	1	1	9	1	/	1	2	1	1	1	1	4	6	1	1	1	1	2	1	1	1
EVMSG10 7/5.5	1	1	5	1	1	1	1	7	1	1	11	1	/	1	2	1	1	1	1	4	7	1	1	1	1	2	1	1	1
EVMSG10 8/5.5	1	1	5	2	1	1	1	8	1	1	11	2	/	2	2	1	1	2	1	4	8	1	1	1	1	2	1	1	1
EVMSG10 9/5.5	1	1	6	2	1	1	1	9	1	1	13	2	/	2	2	1	1	2	1	4	9	1	1	1	1	2	1	1	1
EVMSG10 10/7.5	1	1	7	2	1	1	1	10	1	1	15	2	/	2	2	1	1	2	1	4	10	1	1	1	1	2	1	1	1
EVMSG10 11/7.5	1	1	8	2	1	1	1	11	1	1	17	2	/	2	2	1	1	2	1	4	11	1	1	1	1	2	1	1	1
EVMSG10 12/7.5	1	1	9	2	1	1	1	12	1	1	19	2	/	2	2	1	1	2	1	4	12	1	1	1	1	2	1	1	1
EVMSG10 14/11	1	1	11	2	1	1	1	14	1	1	23	2	/	2	2	1	1	2	1	4	14	1	1	1	1	2	1	1	1
EVMSG10 15/11	1	1	12	2	1	1	1	15	1	1	25	2	/	2	2	1	1	2	1	4	15	1	1	1	1	2	1	1	1
EVMSG10 16/11	1	1	13	2	1	1	1	16	1	1	27	2	/	2	2	1	1	2	1	4	16	1	1	1	1	2	1	1	1

Pump Type	N°																						
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG10 1/0.75	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG10 2/1.5	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG10 3/2.2	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG10 4/3.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG10 5/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG10 6/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG10 7/5.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG10 8/5.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG10 9/5.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG10 10/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG10 11/7.5	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG10 12/7.5	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG10 14/11	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG10 15/11	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG10 16/11	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4

* only for Oval flange (N)
128-6 / 135-6: with Aluminium coupling (see drawing pag.211)

PERFORMANCE CURVE
EVMS(L)15

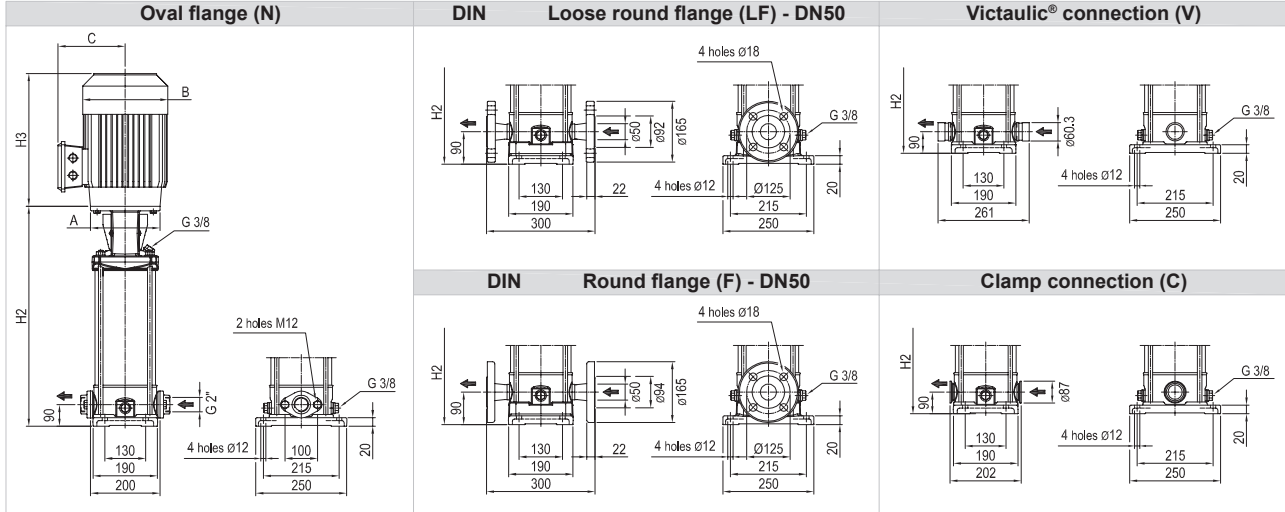
EVMS(L)15



Rotation speed ≈3500 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMS(L)15

Dimensional sketch

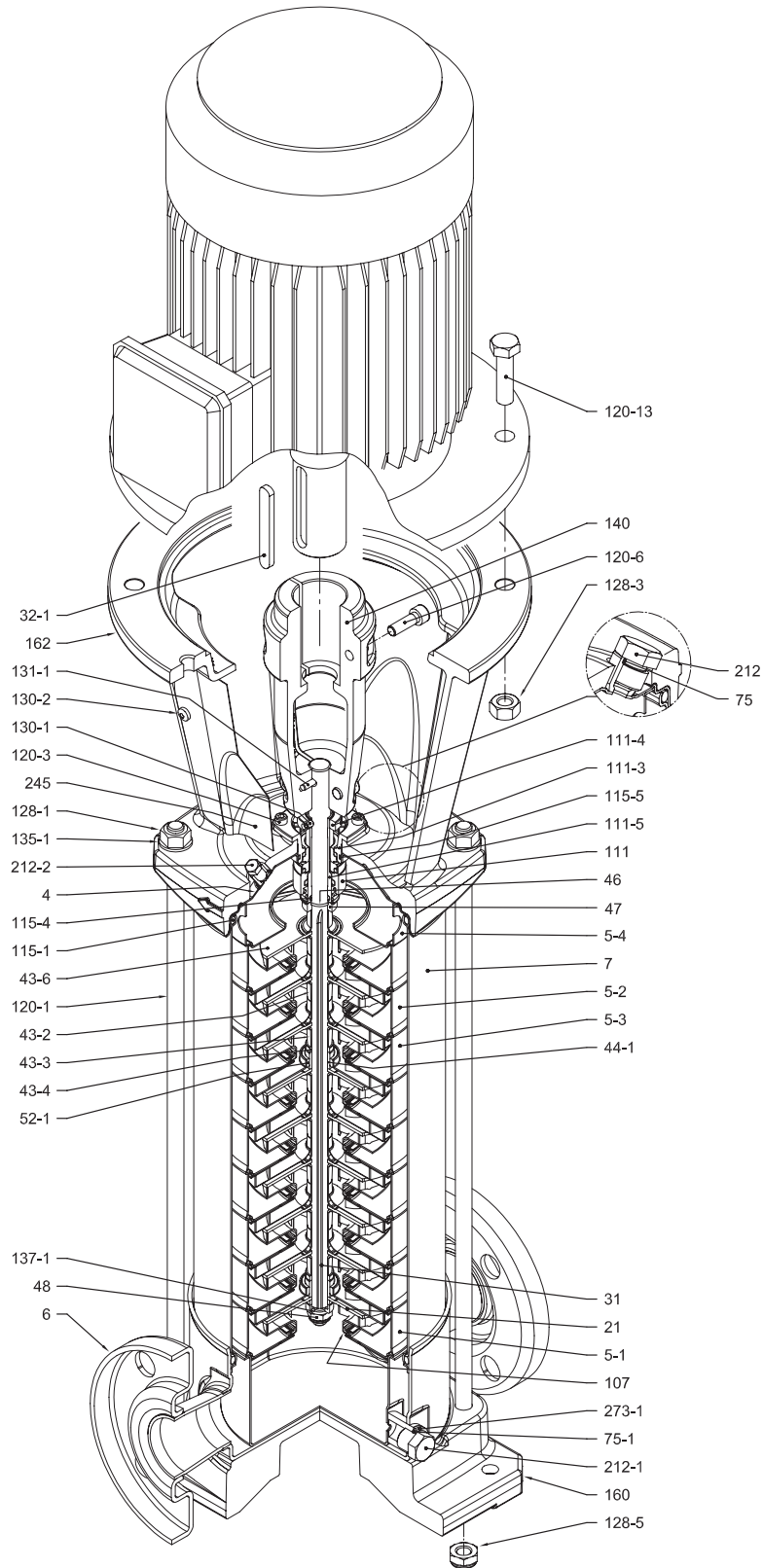


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax. [MPa]	kW	Size	Motor				Oval flange (N)			Loose round flange (LF) Round flange (F)			Victaulic® connection (V) Clamp connection (C)		
				A	B	C	H3	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
EVMS(L)15 1/1.5	1.6	1.5	90	ø140	160	119	291	387	16.9	30.4	387	18.8	32.3	387	16.9	30.4
EVMS(L)15 2/3	1.6	3.0	100	ø160	176	123	342	397	17.3	39.3	397	19.1	41.1	397	17.2	39.2
EVMS(L)15 3/5.5	1.6	5.5	132	ø300	220	152	399	534	25.5	64.5	534	27.4	66.4	534	25.5	64.5
EVMS(L)15 4/7.5	1.6	7.5	132	ø300	220	152	419	574	26.7	72.7	574	28.6	74.6	574	26.7	72.7
EVMS(L)15 5/7.5	1.6	7.5	132	ø300	220	152	419	614	27.8	73.8	614	29.7	75.7	614	27.8	73.8
EVMS(L)15 6/11	1.6	11	160	ø350	259	180	440	684	37.7	100.2	684	39.5	102	684	37.6	100.1
EVMS(L)15 7/11	1.6	11	160	ø350	259	180	440	724	39.5	102	724	41.4	103.9	724	39.5	102
EVMS(L)15 8/15	2.5	15	160 M	ø350	317	238	498	-	-	-	764	42.7	131.6	764	40.8	129.7
EVMS(L)15 9/15	2.5	15	160 M	ø350	317	238	498	-	-	-	804	44	132.9	804	42.1	131
EVMS(L)15 10/15	2.5	15	160 M	ø350	317	238	498	-	-	-	844	45.3	134.2	844	43.4	132.3
EVMS(L)15 11/18.5	2.5	18.5	160 L	ø350	317	238	542	-	-	-	884	46.6	150.6	884	44.7	148.7
EVMS(L)15 12/18.5	2.5	18.5	160 L	ø350	317	238	542	-	-	-	924	47.9	151.9	924	46	150

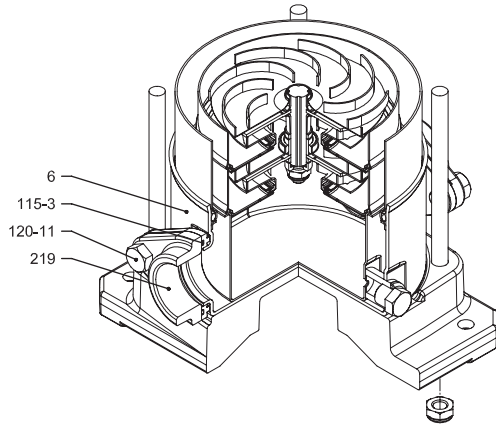
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMS(L)15

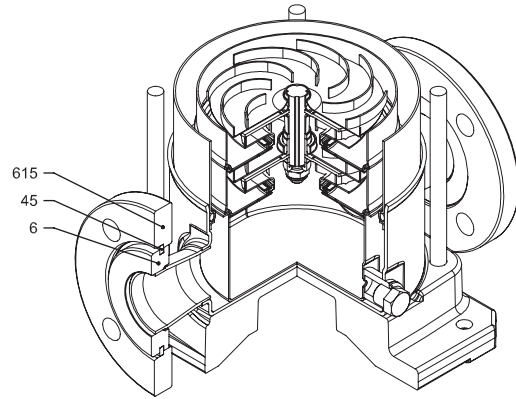


with Round flange (F)

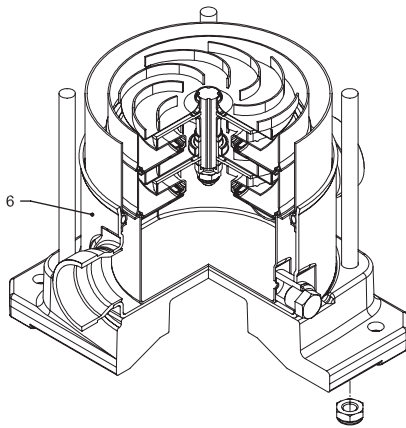
PIPE CONNECTION EVMS(L)15



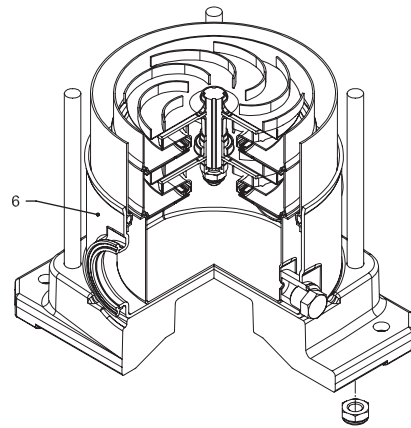
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE
EVMS(L)15

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)	EN 1.4404 (AISI 316L) - EN 1.4462 (AISI 329A)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-6	Washer	EN 1.4404 (AISI 316L)		Ø26x2.5	
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M10	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM		Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS		
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
115-1	O-Ring (outer casing)	EPDM / FPM		Ø164.46x5.34	OR 6645
115-3	O-Ring	EPDM / FPM			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM		Ø15.88x2.62	OR 121
115-5	O-Ring (seal cover)	EPDM / FPM		Ø37.77x2.62	OR 3150
120-1	Tie-rod	Galvanized steel 6.8 strength class ISO 898/1		M12	
120-3	Screw	A2-70 UNI 7323		M5x12	ISO 4762
120-6	Screw for coupling	up to 4.0 kW	Galvanized steel	M6x25	ISO 4762
		from 5.5 kW to 7.5 kW		M8x20	ISO 4762
		above 11 kW		M10x30	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	MEC 90-100-112		M8x20	ISO 4017
		MEC 132		M12x40	UNI 5739
		MEC 160		M16x50	ISO 4017
128-1	Nut for tie rod	Galvanized steel		M12	UNI 5588
128-3	Nut (motor)	MEC 132	Galvanized steel	M12	UNI 5588
		MEC 160		M16	ISO 4032
128-5	Nut for tie rod	Galvanized steel		M12	UNI 7474
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		Ø5x35	UNI 4838
135-1	Washer	Galvanized steel		Ø13x24x2.5	UNI 6592
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)		
		above 5.5 kW	Cast Iron		
160	Base	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
615	Flange	Carbon Steel			

QUANTITY FOR MODEL EVMS(L)15

Pump Type	N°																															
	4	5-1	52	53	54	6	7	21	31***	32-1	43-2	43-3	43-4	43-6	44-1	45**	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5	
EVMS(L)15 1/1.5	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	4	2	1	1	1	1	2	1	1	1	1	1	1	2	2	1	1
EVMS(L)15 2/3	1	1	/	1	1	1	1	2	1	1	1	1	1	/	1	4	2	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1
EVMS(L)15 3/5.5	1	1	1	1	1	1	1	3	1	1	3	1	1	/	1	4	2	1	1	1	1	2	3	1	1	1	1	1	2	2	1	1
EVMS(L)15 4/7.5	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	4	2	1	1	1	1	2	4	1	1	1	1	1	2	2	1	1
EVMS(L)15 5/7.5	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	4	2	1	1	1	1	2	5	1	1	1	1	1	2	2	1	1
EVMS(L)15 6/11	1	1	3	2	1	1	1	6	1	1	7	2	2	/	2	4	2	1	1	2	1	2	6	1	1	1	1	1	2	2	1	1
EVMS(L)15 7/11	1	1	4	2	1	1	1	7	1	1	9	2	2	/	2	4	2	1	1	2	1	2	7	1	1	1	1	1	2	2	1	1
EVMS(L)15 8/15	1	1	5	2	1	1	1	8	1	1	11	2	2	/	2	4	2	1	1	2	1	2	8	1	1	1	1	1	2	/	1	1
EVMS(L)15 9/15	1	1	6	2	1	1	1	9	1	1	13	2	2	/	2	4	2	1	1	2	1	2	9	1	1	1	1	1	2	/	1	1
EVMS(L)15 10/15	1	1	7	2	1	1	1	10	1	1	15	2	2	/	2	4	2	1	1	2	1	2	10	1	1	1	1	1	2	/	1	1
EVMS(L)15 11/18.5	1	1	8	2	1	1	1	11	1	1	17	2	2	/	2	4	2	1	1	2	1	2	11	1	1	1	1	1	2	/	1	1
EVMS(L)15 12/18.5	1	1	9	2	1	1	1	12	1	1	19	2	2	/	2	4	2	1	1	2	1	2	12	1	1	1	1	1	2	/	1	1

Pump Type	N°																								
	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-1	212-2	219*	245	273-1	615**
EVMS(L)15 1/1.5	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 2/3	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 3/5.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 4/7.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 5/7.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 6/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 7/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)15 8/15	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)15 9/15	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)15 10/15	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)15 11/18.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)15 12/18.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2

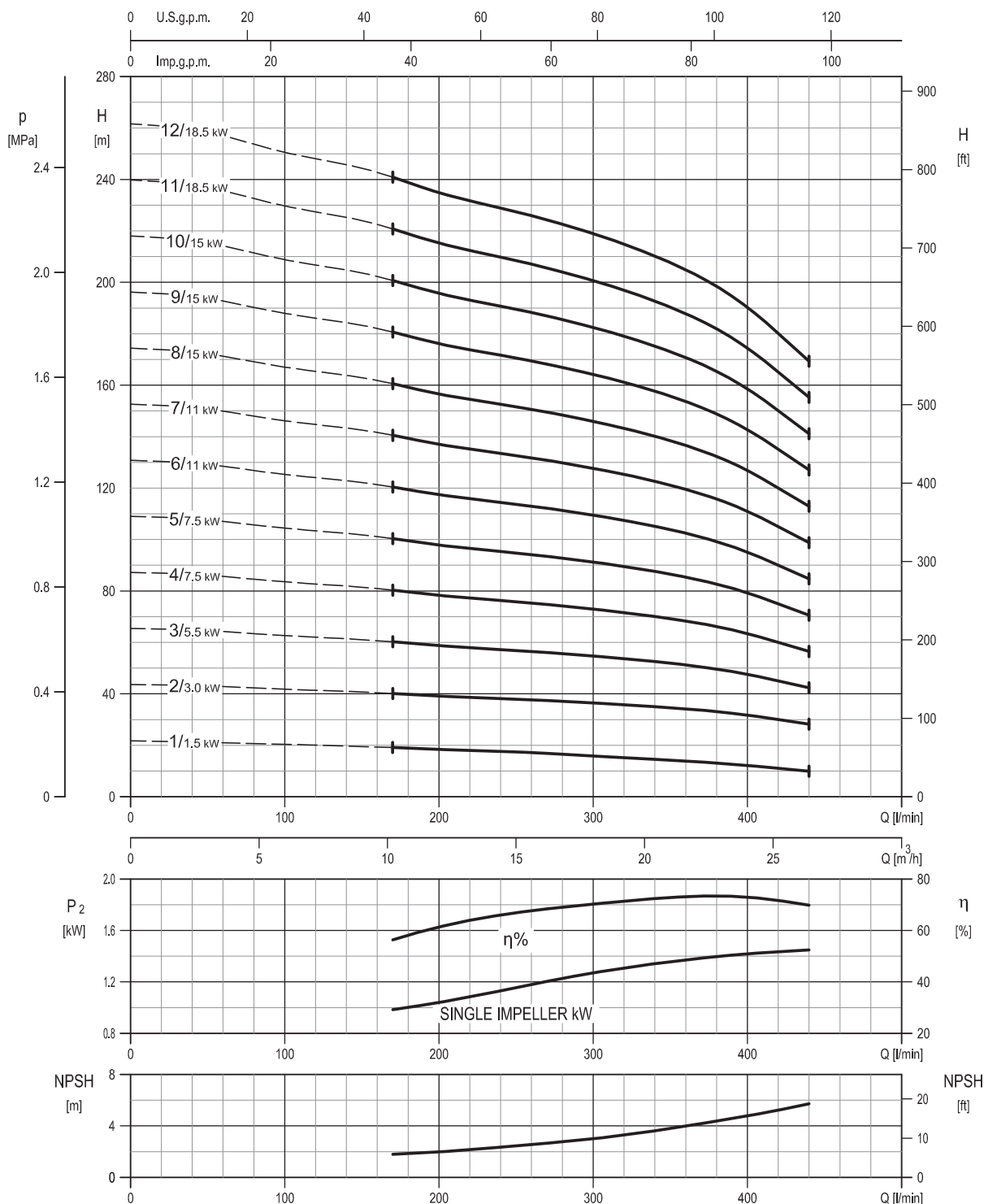
* only for Oval flange (N)

** only for Loose round flange (LF)

** shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.211)

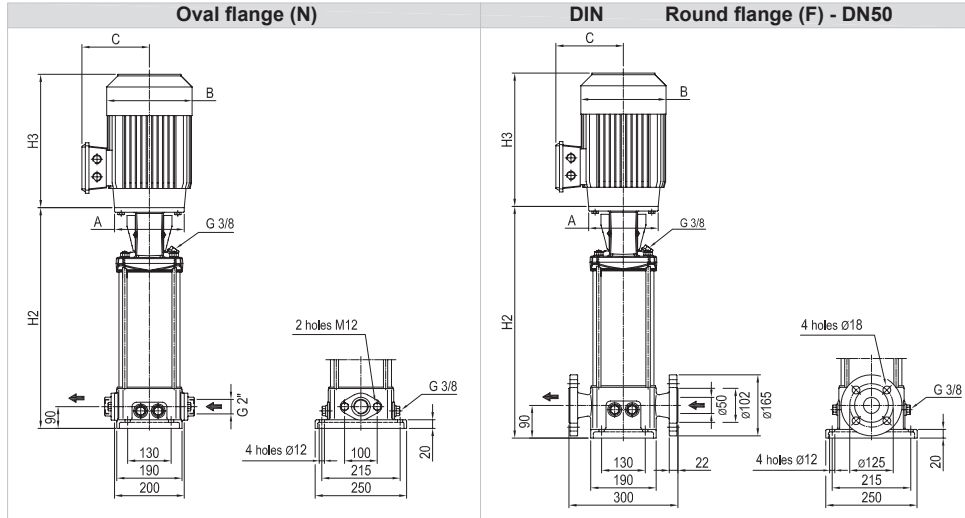
PERFORMANCE CURVE
EVMSG15



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMSG15

Dimensional sketch



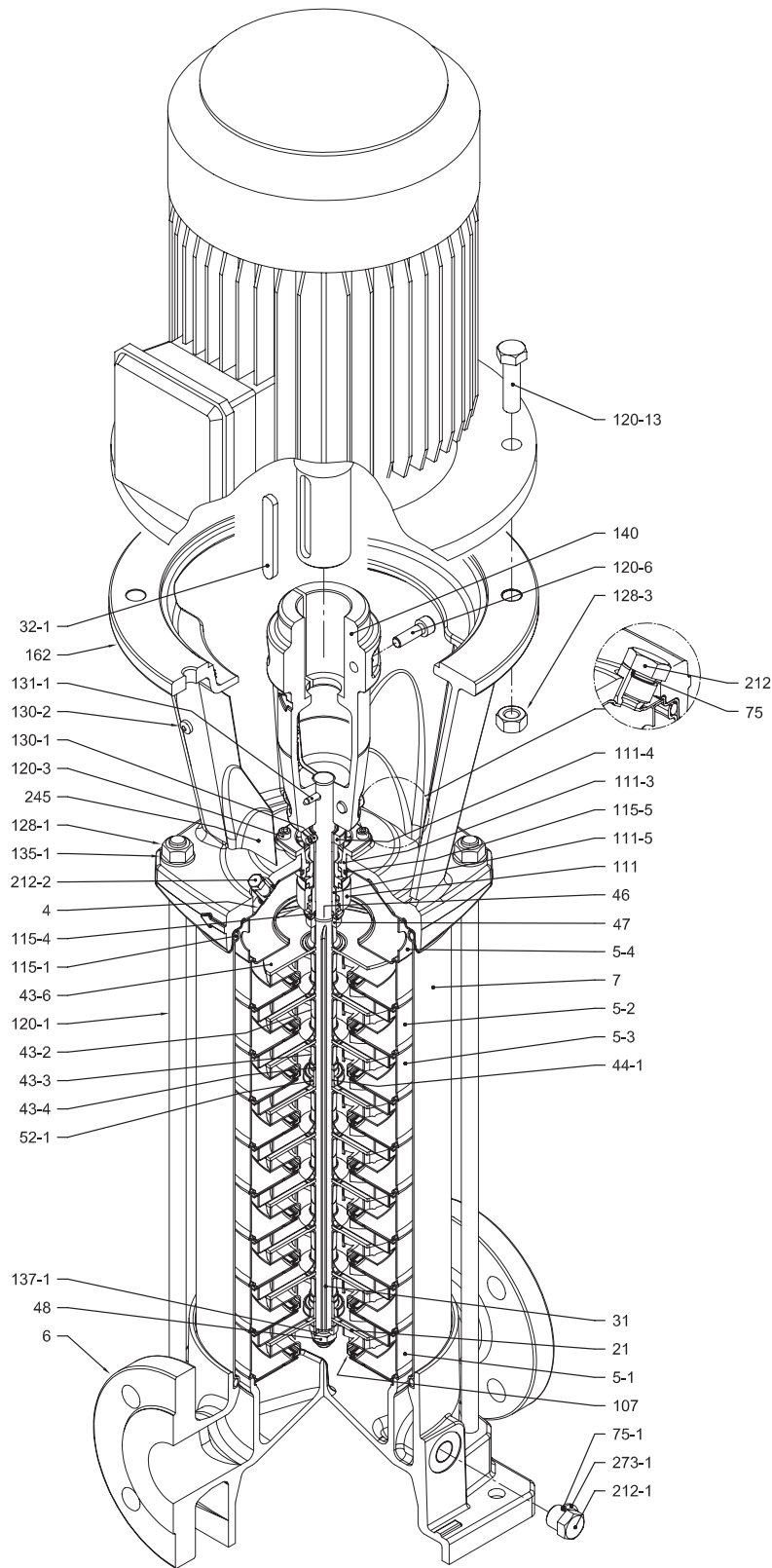
Dimensions [mm] and Weights [Kg]

Pump Type	P _{max} [MPa]	Motor						Oval flange (N)			Round flange (F)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
					B	C	H3						
EVMSG15 1/1.5	1.6	1.5	90	Ø140	160	119	291	387	21.2	34.7	387	26.9	40.4
EVMSG15 2/3	1.6	3.0	100	Ø160	176	123	342	397	21.6	43.6	397	27.3	49.3
EVMSG15 3/5.5	1.6	5.5	132	Ø300	220	152	399	534	29.8	68.8	534	35.5	74.5
EVMSG15 4/7.5	1.6	7.5	132	Ø300	220	152	419	574	31	77	574	36.7	82.7
EVMSG15 5/7.5	1.6	7.5	132	Ø300	220	152	419	614	32.1	78.1	614	37.8	83.8
EVMSG15 6/11	1.6	11	160	Ø350	259	180	440	684	42	104.5	684	47.7	110.2
EVMSG15 7/11	1.6	11	160	Ø350	259	180	440	724	43.8	106.3	724	49.5	112
EVMSG15 8/15	2.5	15	160 M	Ø350	317	238	498	-	-	-	764	50.8	139.7
EVMSG15 9/15	2.5	15	160 M	Ø350	317	238	498	-	-	-	804	52.1	141
EVMSG15 10/15	2.5	15	160 M	Ø350	317	238	498	-	-	-	844	53.4	142.3
EVMSG15 11/18.5	2.5	18.5	160 L	Ø350	317	238	542	-	-	-	884	54.7	158.7
EVMSG15 12/18.5	2.5	18.5	160 L	Ø350	317	238	542	-	-	-	924	56	160

1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

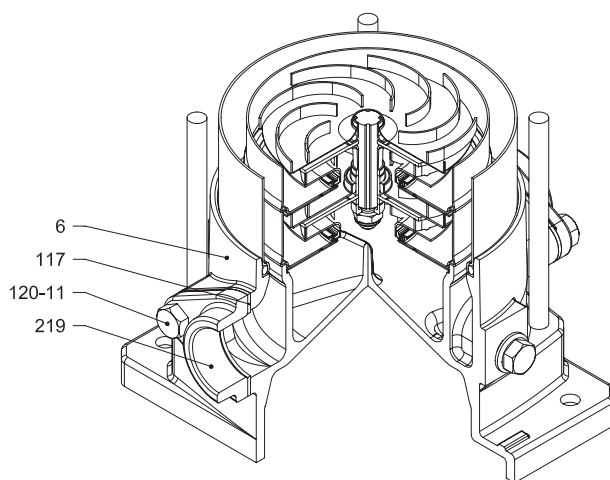
SECTIONAL VIEW
EVMSG15

EVMSG15



with Round flange (F)

PIPE CONNECTION EVMSG15



with Oval flange (N)

EVMSG15

SECTIONAL TABLE
EVMSG15

N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD	
4	Casing cover	EN 1.4301 (AISI 304)			
5-1	Suction casing	EN 1.4301 (AISI 304)			
5-2	Intermediate Casing	EN 1.4301 (AISI 304)			
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)			
5-4	Discharge casing	EN 1.4301 (AISI 304)			
6	Bottom casing	Cast Iron EN GJL-250EN1551			
7	Outer casing	EN 1.4301 (AISI 304)			
21	Impeller	EN 1.4301 (AISI 304)			
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)			
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)			
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)			
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)			
43-6	Washer	EN 1.4404 (AISI 316L)	Ø26x2.5		
44-1	Shaft sleeve bearing	Tungsten carbide			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4404 (AISI 316L)			
48	Impeller nut	A2-70 UNI 7323 with inox insert	M10		
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM	Ø12.37x2.62	OR 3050	
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS			
111	Mechanical Seal	SiC / Carbon / EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)			
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)			
115-1	O-Ring (outer casing)	EPDM / FPM	Ø164.46x5.34	OR 6645	
115-4	O-Ring (cartridge sleeve)	EPDM / FPM	Ø15.88x2.62	OR 121	
115-5	O-Ring (seal cover)	EPDM / FPM	Ø37.77x2.62	OR 3150	
117	Flange gasket	EPDM / FPM			
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1	M12		
120-3	Screw	A2-70 UNI 7323	M5x12	ISO 4762	
120-6	Screw for coupling	Galvanized steel 6.8 strenght class ISO 898/1	up to 4.0 kW	M6x25	ISO 4762
			from 5.5 kW to 7.5 kW	M8x20	ISO 4762
			above 11 kW	M10x30	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	Galvanized steel 8.8 strenght class ISO 898/1	MEC 90-100-112	M8x20	ISO 4017
			MEC 132	M12x40	UNI 5739
			MEC 160	M16x50	ISO 4017
128-1	Nut for tie rod	Galvanized steel	M12	UNI 5588	
128-3	Nut (motor)	Galvanized steel	MEC 132	M12	UNI 5588
			MEC 160	M16	ISO 4032
130-1	Set screw	A2-70 UNI 7323	M5x8	UNI 5923	
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687	
131-1	Pin for shaft	Carbon Steel	Ø5x35	UNI 4838	
135-1	Washer	Galvanized steel	Ø13x24x2.5	UNI 6592	
137-1	Impeller spacer	EN 1.4301 (AISI 304)			
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11Cu2 (Fe)		
		above 5.5 kW	Cast Iron		
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-1	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	Galvanized steel			
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)			

QUANTITY FOR MODEL EVMSG15

Pump Type	N°																												
	4	5-1	52	53	54	6	7	21	31***	32-1	43-2	43-3	43-4	43-6	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5
EVMSG15 1/1.5	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	4	1	1	1	1	1	2	1	1
EVMSG15 2/3	1	1	/	1	1	1	1	2	1	1	1	1	1	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1
EVMSG15 3/5.5	1	1	1	1	1	1	1	3	1	1	3	1	1	/	1	2	1	1	1	1	4	3	1	1	1	1	2	1	1
EVMSG15 4/7.5	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	2	1	1	1	1	4	4	1	1	1	1	2	1	1
EVMSG15 5/7.5	1	1	3	1	1	1	1	5	1	1	7	1	1	/	1	2	1	1	1	1	4	5	1	1	1	1	2	1	1
EVMSG15 6/11	1	1	3	2	1	1	1	6	1	1	7	2	2	/	2	2	1	1	2	1	4	6	1	1	1	1	2	1	1
EVMSG15 7/11	1	1	4	2	1	1	1	7	1	1	9	2	2	/	2	2	1	1	2	1	4	7	1	1	1	1	2	1	1
EVMSG15 8/15	1	1	5	2	1	1	1	8	1	1	11	2	2	/	2	2	1	1	2	1	4	8	1	1	1	1	2	1	1
EVMSG15 9/15	1	1	6	2	1	1	1	9	1	1	13	2	2	/	2	2	1	1	2	1	4	9	1	1	1	1	2	1	1
EVMSG15 10/15	1	1	7	2	1	1	1	10	1	1	15	2	2	/	2	2	1	1	2	1	4	10	1	1	1	1	2	1	1
EVMSG15 11/18.5	1	1	8	2	1	1	1	11	1	1	17	2	2	/	2	2	1	1	2	1	4	11	1	1	1	1	2	1	1
EVMSG15 12/18.5	1	1	9	2	1	1	1	12	1	1	19	2	2	/	2	2	1	1	2	1	4	12	1	1	1	1	2	1	1

Pump Type	N°																						
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG15 1/1.5	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG15 2/3	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG15 3/5.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 4/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 5/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 6/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 7/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 8/15	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG15 9/15	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG15 10/15	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG15 11/18.5	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG15 12/18.5	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4

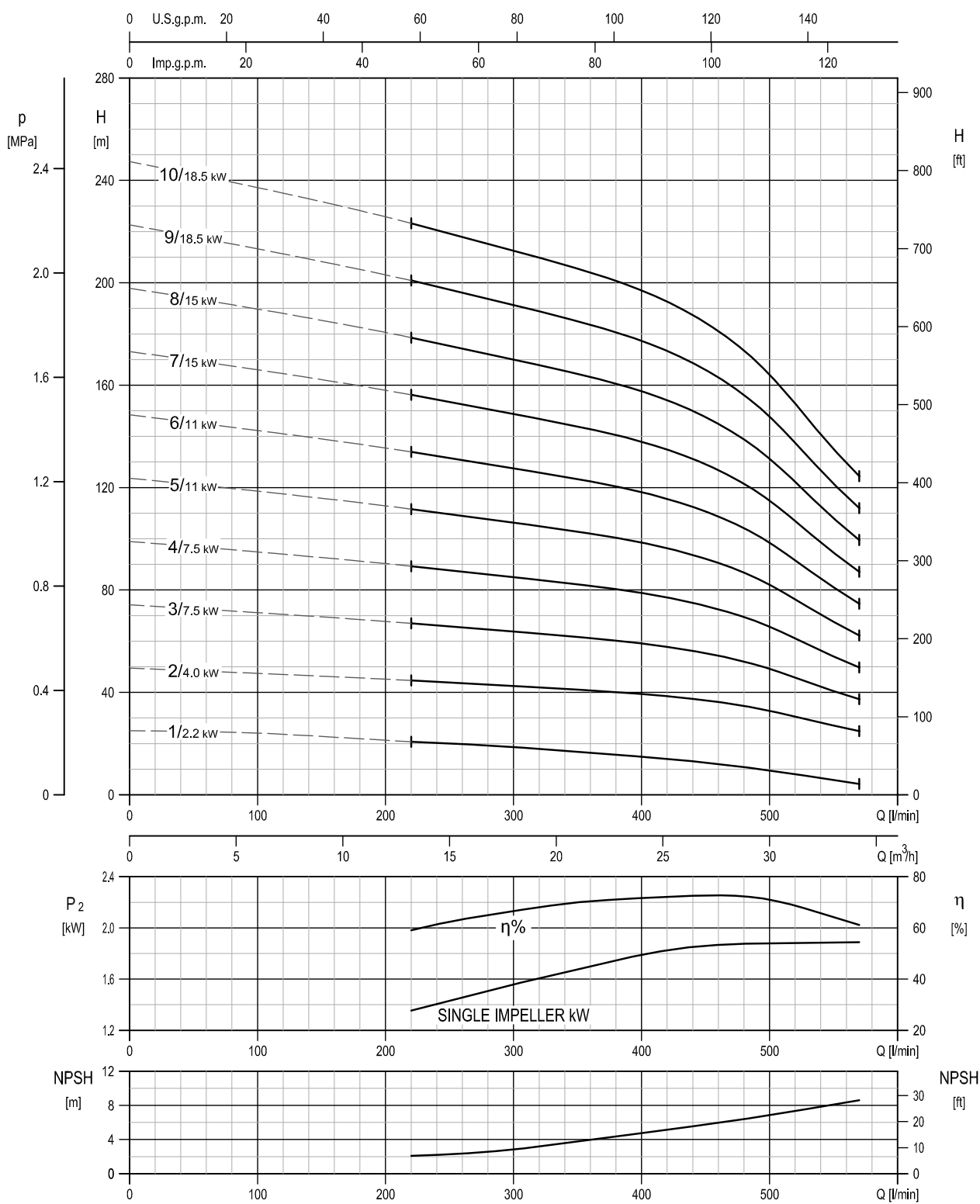
* only for Oval flange (N)

*** shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.211)

PERFORMANCE CURVE
EVMS(L)20

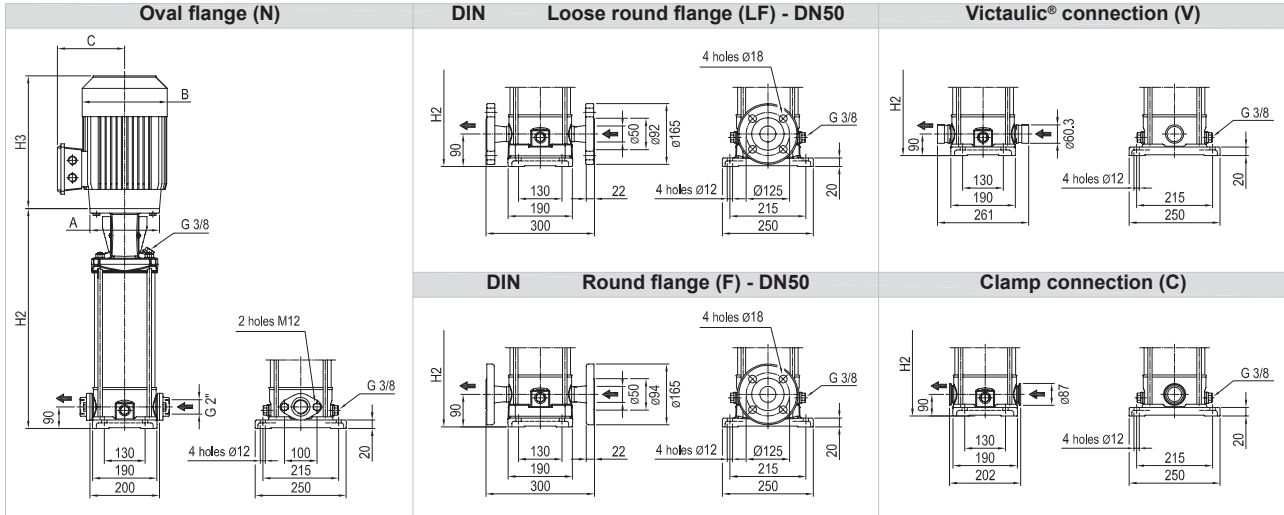
EVMS(L)20



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMS(L)20

Dimensional sketch

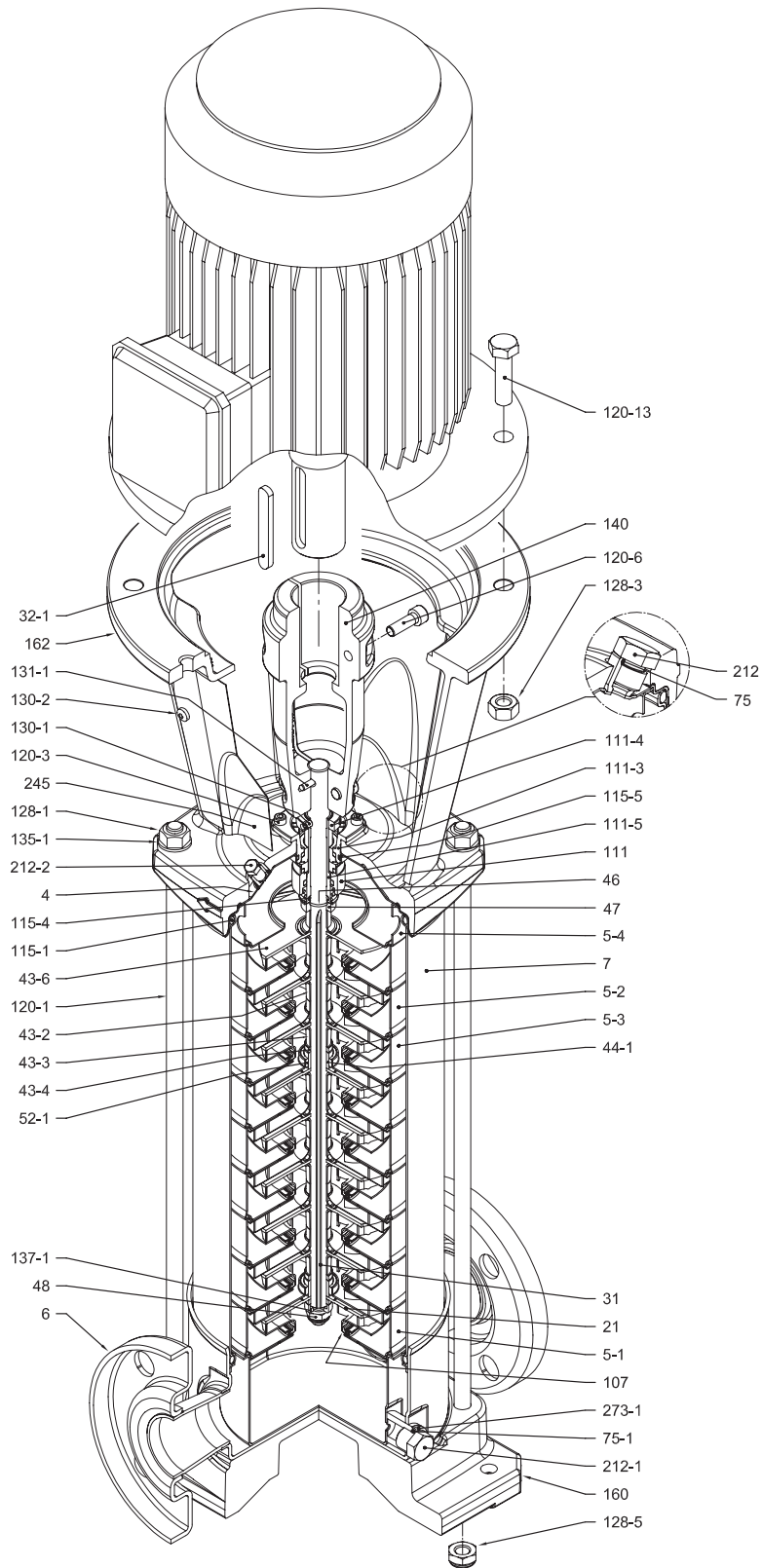


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax. [MPa]	Motor						Oval flange (N)			Loose round flange (LF) Round flange (F)			Victaulic® connection (V) Clamp connection (C)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
EVMS(L)20 1/2.2	1.6	2.2	90	Ø140	160	119	291	387	16.9	31.9	387	18.7	33.7	387	16.8	31.8
EVMS(L)20 2/4.0	1.6	4.0	112	Ø160	193	138	364	397	17.3	45.8	397	19.1	47.6	397	17.2	45.7
EVMS(L)20 3/7.5	1.6	7.5	132	Ø300	220	152	419	534	25.5	71.5	534	27.4	73.4	534	25.5	71.5
EVMS(L)20 4/7.5	1.6	7.5	132	Ø300	220	152	419	574	26.8	72.8	574	28.6	74.6	574	26.7	72.7
EVMS(L)20 5/11	1.6	11	160	Ø350	259	180	440	644	36.2	98.7	644	38	100.5	644	36.1	98.6
EVMS(L)20 6/11	1.6	11	160	Ø350	259	180	440	684	36.4	98.9	684	38.3	100.8	684	36.4	98.9
EVMS(L)20 7/15	2.5	15	160 M	Ø350	317	238	498	-	-	-	724	41.2	130.1	724	39.3	128.2
EVMS(L)20 8/15	2.5	15	160 M	Ø350	317	238	498	-	-	-	764	42.5	131.4	764	40.6	129.5
EVMS(L)20 9/18.5	2.5	18.5	160 L	Ø350	317	238	542	-	-	-	804	43.9	147.9	804	42	146
EVMS(L)20 10/18.5	2.5	18.5	160 L	Ø350	317	238	542	-	-	-	844	45.2	149.2	844	43.3	147.3

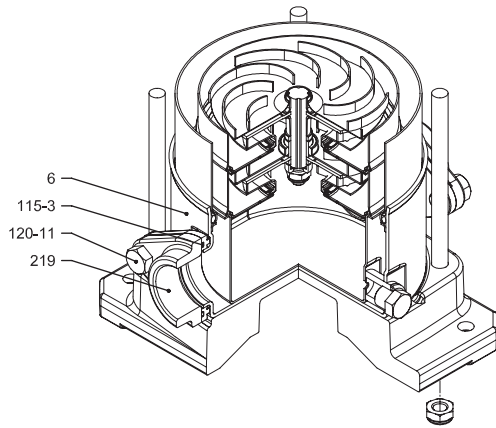
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMS(L)20

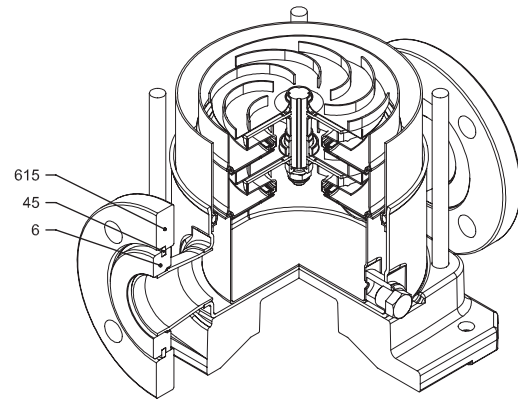


with Round flange (F)

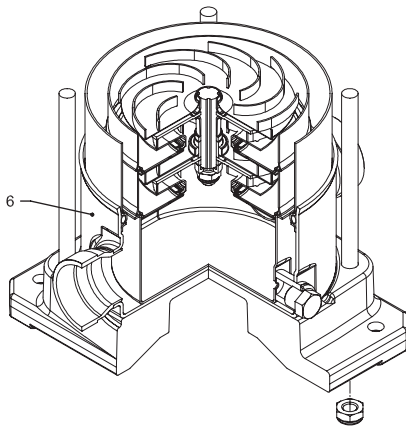
PIPE CONNECTION EVMS(L)20



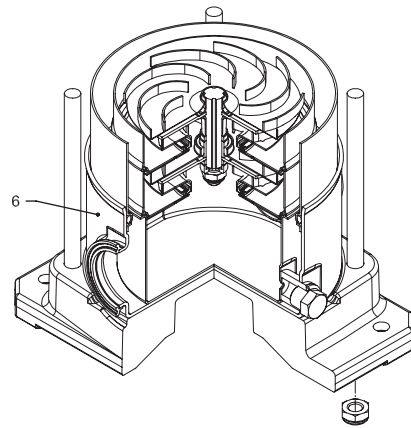
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE
EVMS(L)20

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVMS	EVMSL		
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)	EN 1.4404 (AISI 316L) - EN 1.4462 (AISI 329A)		
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-6	Washer	EN 1.4404 (AISI 316L)		Ø26x2.5	
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.4301 (AISI 304)			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M10	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM		Ø12.37x2.62	OR 3050
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS	EN 1.4404 (AISI 316L) + PPS		
111	Mechanical Seal	SiC/Carbon/EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
115-1	O-Ring (outer casing)	EPDM / FPM		Ø164.46x5.34	OR 6645
115-3	O-Ring	EPDM / FPM			
115-4	O-Ring (cartridge sleeve)	EPDM / FPM		Ø15.88x2.62	OR 121
115-5	O-Ring (seal cover)	EPDM / FPM		Ø37.77x2.62	OR 3150
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		M12	
120-3	Screw	A2-70 UNI 7323		M5x12	ISO 4762
120-6	Screw for coupling	up to 4.0 kW	Galvanized steel	M6x25	ISO 4762
		from 5.5 kW to 7.5 kW		M8x20	ISO 4762
		above 11 kW		M10x30	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	MEC 90-100-112	Galvanized steel 8.8 strenght class ISO 898/1	M8x20	ISO 4017
		MEC 132		M12x40	UNI 5739
		MEC 160		M16x50	ISO 4017
128-1	Nut for tie rod	Galvanized steel		M12	UNI 5588
128-3	Nut (motor)	MEC 132	Galvanized steel	M12	UNI 5588
		MEC 160		M16	ISO 4032
128-5	Nut for tie rod	Galvanized steel		M12	UNI 7474
130-1	Set screw	A2-70 UNI 7323		M5x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
131-1	Pin for shaft	Carbon Steel		Ø5x35	UNI 4838
135-1	Washer	Galvanized steel		Ø13x24x2.5	UNI 6592
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)		
		above 5.5 kW	Cast Iron		
160	Base	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	G 3/8	
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
615	Flange	Carbon Steel			

QUANTITY FOR MODEL EVMS(L)20

Pump Type	N°																														
	4	5-1	52	53	54	6	7	21	31***	32-1	43-2	43-3	43-4	43-6	44-1	45**	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-3*	115-4	115-5
EVMS(L)20 1/2.2	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	4	2	1	1	1	1	2	1	1	1	1	1	2	2	1	1
EVMS(L)20 2/4.0	1	1	/	1	1	1	1	2	1	1	1	1	1	/	1	4	2	1	1	1	1	2	2	1	1	1	1	2	2	1	1
EVMS(L)20 3/7.5	1	1	1	1	1	1	1	3	1	1	3	1	1	/	1	4	2	1	1	1	1	2	3	1	1	1	1	2	2	1	1
EVMS(L)20 4/7.5	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	4	2	1	1	1	1	2	4	1	1	1	1	2	2	1	1
EVMS(L)20 5/11	1	1	2	2	1	1	1	5	1	1	5	2	2	/	2	4	2	1	1	2	1	2	5	1	1	1	1	2	2	1	1
EVMS(L)20 6/11	1	1	3	2	1	1	1	6	1	1	7	2	2	/	2	4	2	1	1	2	1	2	6	1	1	1	1	2	2	1	1
EVMS(L)20 7/15	1	1	4	2	1	1	1	7	1	1	9	2	2	/	2	4	2	1	1	2	1	2	7	1	1	1	1	2	/	1	1
EVMS(L)20 8/15	1	1	5	2	1	1	1	8	1	1	11	2	2	/	2	4	2	1	1	2	1	2	8	1	1	1	1	2	/	1	1
EVMS(L)20 9/18.5	1	1	6	2	1	1	1	9	1	1	13	2	2	/	2	4	2	1	1	2	1	2	9	1	1	1	1	2	/	1	1
EVMS(L)20 10/18.5	1	1	7	2	1	1	1	10	1	1	15	2	2	/	2	4	2	1	1	2	1	2	10	1	1	1	1	2	/	1	1

Pump Type	N°																								
	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-5	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	160	162	212	212-1	212-2	219*	245	273-1	615**
EVMS(L)20 1/2.2	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)20 2/4.0	4	4	4	4	4	4	/	4	4	3	4	1	4	4	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)20 3/7.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)20 4/7.5	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)20 5/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)20 6/11	4	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	2	2	2	2
EVMS(L)20 7/15	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)20 8/15	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)20 9/18.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2
EVMS(L)20 10/18.5	4	4	4	/	4	4	4	4	/	3	4	1	4	/	1	2	1	1	1	2	1	/	2	2	2

* only for Oval flange (N)

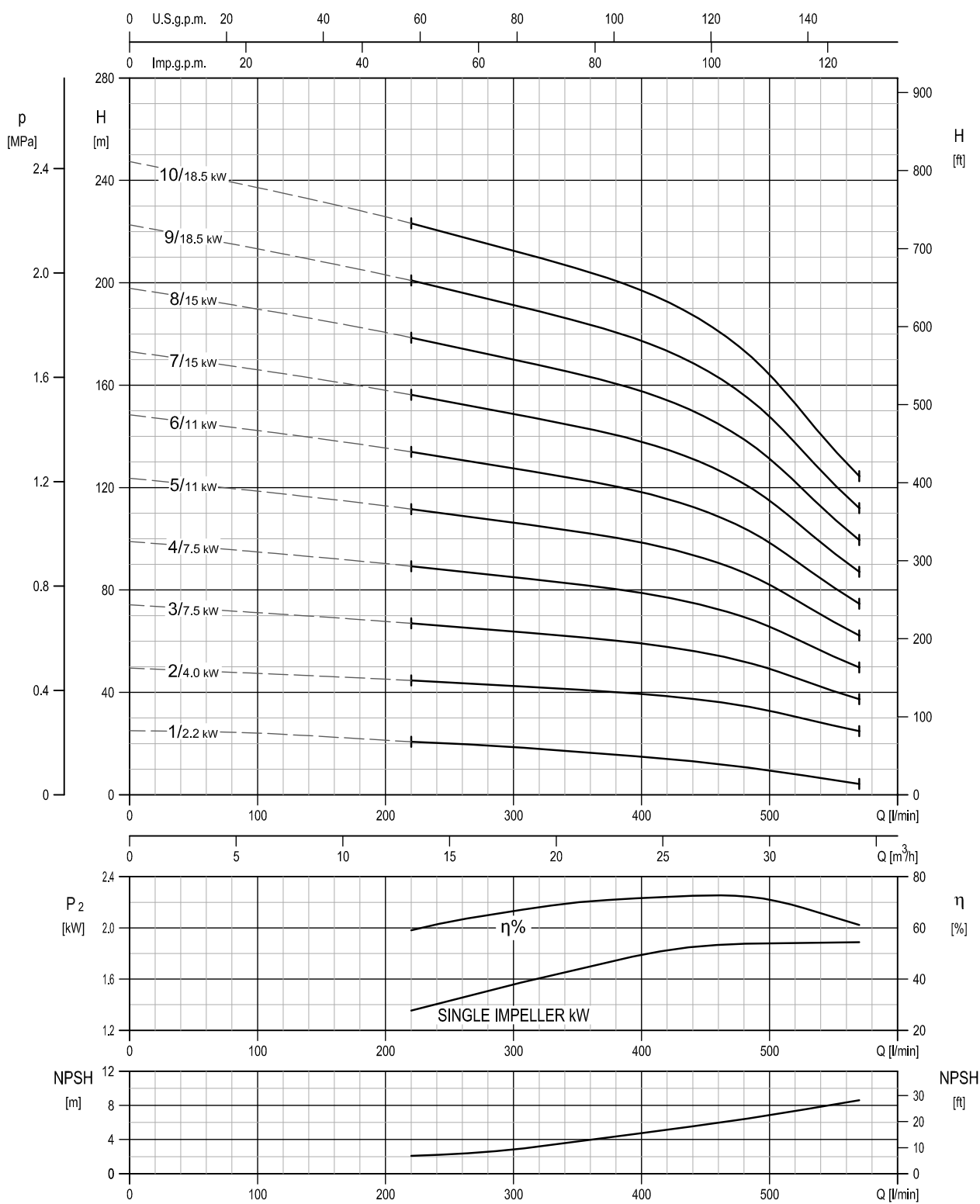
** only for Loose round flange (LF)

*** shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.211)

PERFORMANCE CURVE
EVMSG20

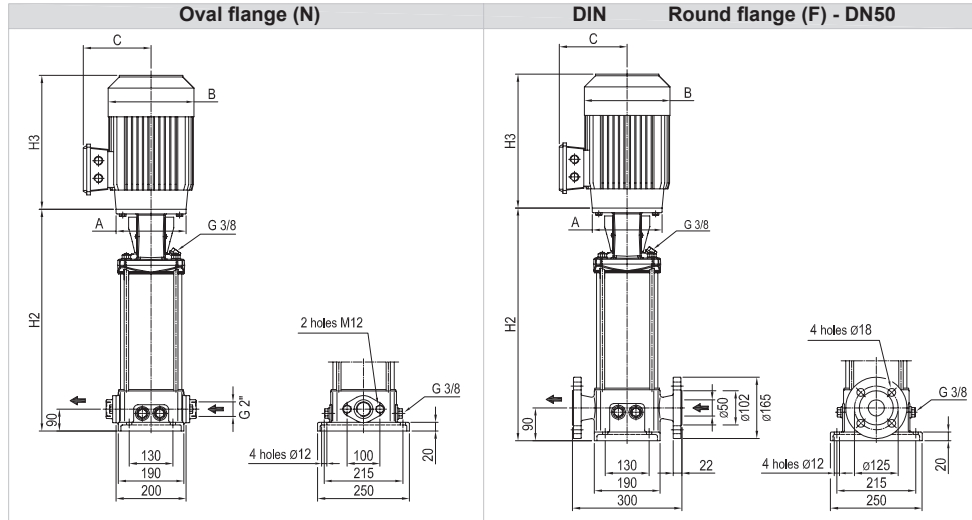
EVMSG20



Rotation speed $\approx 3500 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMSG20

Dimensional sketch

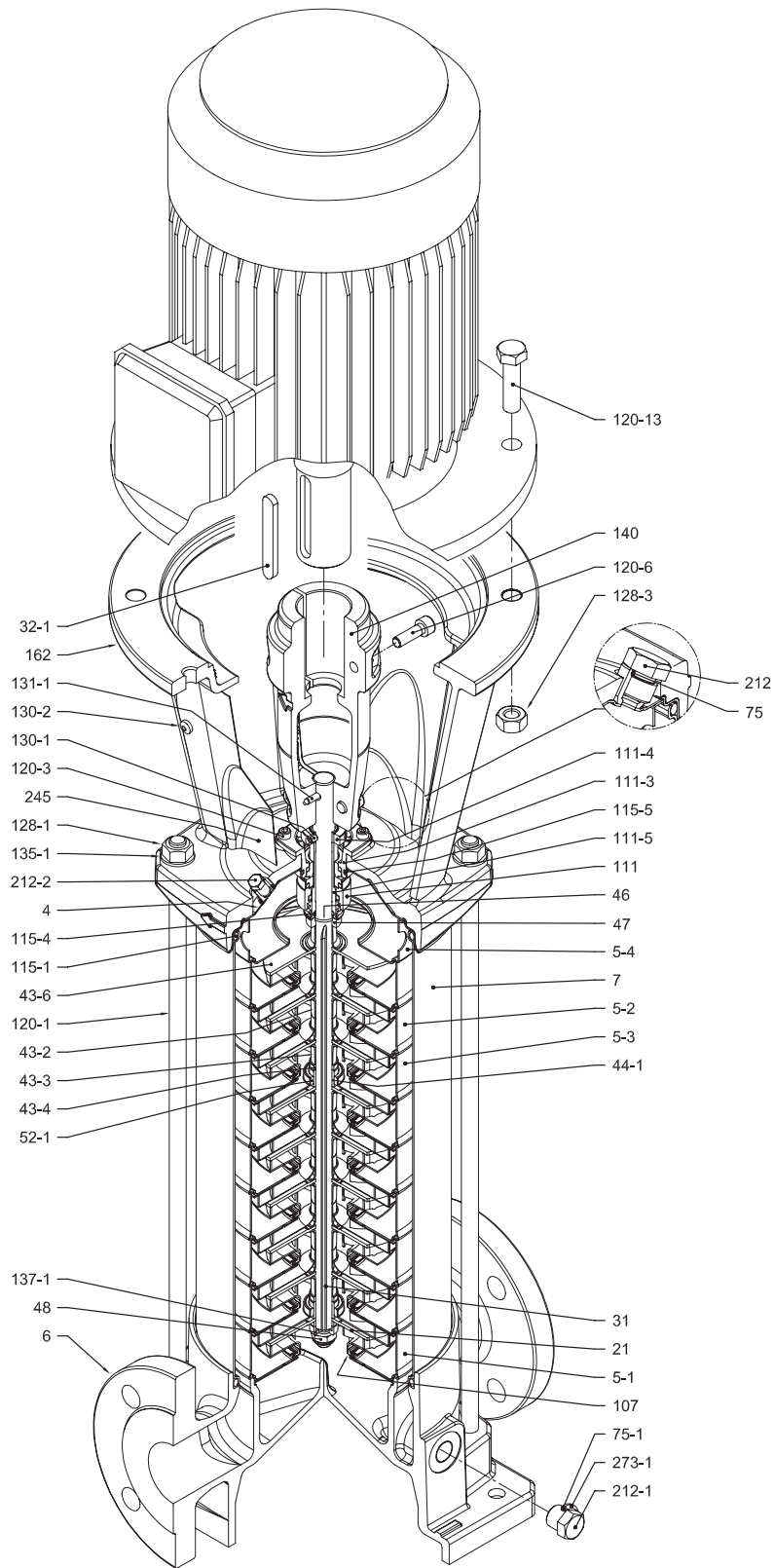


Dimensions [mm] and Weights [Kg]

Pump Type	P _{max} [MPa]	Motor						Oval flange (N)			Round flange (F)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor	H2	Weight Pump	Weight Pump + Motor
					B	C	H3						
EVMSG20 1/2.2	1.6	2.2	90	ø140	160	119	291	387	21.2	36.2	387	26.9	41.9
EVMSG20 2/4.0	1.6	4.0	112	ø160	193	138	364	397	21.6	50.1	397	27.3	55.8
EVMSG20 3/7.5	1.6	7.5	132	ø300	220	152	419	534	29.9	75.9	534	35.6	81.6
EVMSG20 4/7.5	1.6	7.5	132	ø300	220	152	419	574	31.1	77.1	574	36.8	82.8
EVMSG20 5/11	1.6	11	160	ø350	259	180	440	644	40.5	103	644	46.2	108.7
EVMSG20 6/11	1.6	11	160	ø350	259	180	440	684	40.7	103.2	684	46.4	108.9
EVMSG20 7/15	2.5	15	160 M	ø350	317	238	498	-	-	-	724	49.4	138.3
EVMSG20 8/15	2.5	15	160 M	ø350	317	238	498	-	-	-	764	50.7	139.6
EVMSG20 9/18.5	2.5	18.5	160 L	ø350	317	238	542	-	-	-	804	52	156
EVMSG20 10/18.5	2.5	18.5	160 L	ø350	317	238	542	-	-	-	844	53.4	157.4

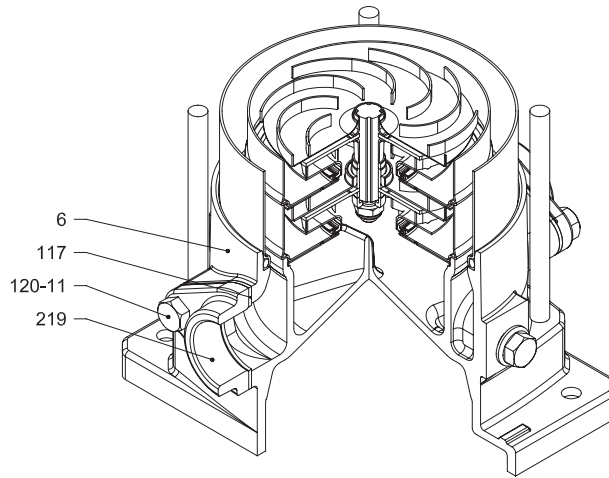
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW
EVMSG20



with Round flange (F)

PIPE CONNECTION EVMSG20



with Oval flange (N)

EVMSG20

SECTIONAL TABLE
EVMSG20

N°	PART NAME	MATERIAL EVMSG	DIMENSIONS	STANDARD	
4	Casing cover	EN 1.4301 (AISI 304)			
5-1	Suction casing	EN 1.4301 (AISI 304)			
5-2	Intermediate Casing	EN 1.4301 (AISI 304)			
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)			
5-4	Discharge casing	EN 1.4301 (AISI 304)			
6	Bottom casing	Cast Iron EN GJL-250EN1551			
7	Outer casing	EN 1.4301 (AISI 304)			
21	Impeller	EN 1.4301 (AISI 304)			
31	Shaft	EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)			
32-1	Adjuster Key	EN 1.4301 (AISI 304)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)			
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)			
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)			
43-6	Washer	EN 1.4404 (AISI 316L)	Ø26x2.5		
44-1	Shaft sleeve bearing	Tungsten carbide			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4404 (AISI 316L)			
48	Impeller nut	A2-70 UNI 7323 with inox insert	M10		
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM / FPM	Ø12.37x2.62	OR 3050	
75-1	O-Ring (plug)	EPDM / FPM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS			
111	Mechanical Seal	SiC/Carbon/EPDM / FPM			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)			
111-4	Seal holder	EN 1.4301 (AISI 304)			
111-5	Mechanical seal cartridge	EN 1.4301 (AISI 304)			
115-1	O-Ring (outer casing)	EPDM / FPM	Ø164.46x5.34	OR 6645	
115-4	O-Ring (cartridge sleeve)	EPDM / FPM	Ø15.88x2.62	OR 121	
115-5	O-Ring (seal cover)	EPDM / FPM	Ø37.77x2.62	OR 3150	
117	Flange gasket	EPDM / FPM			
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1	M12		
120-3	Screw	A2-70 UNI 7323	M5x12	ISO 4762	
120-6	Screw for coupling	Galvanized steel 6.8 strenght class ISO 898/1	up to 4.0 kW	M6x25	ISO 4762
			from 5.5 kW to 7.5 kW	M8x20	ISO 4762
			above 11 kW	M10x30	ISO 4762
120-11	Screw for counterflange	A2-70 UNI 7323			
120-13	Screw for motor	Galvanized steel 8.8 strenght class ISO 898/1	MEC 90-100-112	M8x20	ISO 4017
			MEC 132	M12x40	UNI 5739
			MEC 160	M16x50	ISO 4017
128-1	Nut for tie rod	Galvanized steel	M12	UNI 5588	
128-3	Nut (motor)	Galvanized steel	M12	UNI 5588	
			M16	ISO 4032	
130-1	Set screw	A2-70 UNI 7323	M5x8	UNI 5923	
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687	
131-1	Pin for shaft	Carbon Steel	Ø5x35	UNI 4838	
135-1	Washer	Galvanized steel	Ø13x24x2.5	UNI 6592	
137-1	Impeller spacer	EN 1.4301 (AISI 304)			
140	Coupling	Die cast Aluminium EN AB-AISI11Cu2 (Fe)			
		Cast Iron			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-1	Plug	EN 1.4301 (AISI 304)	G 3/8		
212-2	Venting plug	EN 1.4404 (AISI 316L)			
219	Counter flange	Galvanized steel			
245	Coupling guard	EN 1.4301 (AISI 304)			
273-1	Plug Washer	EN 1.4301 (AISI 304)			

QUANTITY FOR MODEL EVMSG20

Pump Type	N°																												
	4	5-1	52	53	54	6	7	21	31***	32-1	43-2	43-3	43-4	43-6	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5
EVMSG20 1/2.2	1	1	/	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	4	1	1	1	1	1	2	1	1
EVMSG20 2/4.0	1	1	/	1	1	1	1	2	1	1	1	1	1	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1
EVMSG20 3/7.5	1	1	1	1	1	1	1	3	1	1	3	1	1	/	1	2	1	1	1	1	4	3	1	1	1	1	2	1	1
EVMSG20 4/7.5	1	1	2	1	1	1	1	4	1	1	5	1	1	/	1	2	1	1	1	1	4	4	1	1	1	1	2	1	1
EVMSG20 5/11	1	1	2	2	1	1	1	5	1	1	5	2	2	/	2	2	1	1	2	1	4	5	1	1	1	1	2	1	1
EVMSG20 6/11	1	1	3	2	1	1	1	6	1	1	7	2	2	/	2	2	1	1	2	1	4	6	1	1	1	1	2	1	1
EVMSG20 7/15	1	1	4	2	1	1	1	7	1	1	9	2	2	/	2	2	1	1	2	1	4	7	1	1	1	1	2	1	1
EVMSG20 8/15	1	1	5	2	1	1	1	8	1	1	11	2	2	/	2	2	1	1	2	1	4	8	1	1	1	1	2	1	1
EVMSG20 9/18.5	1	1	6	2	1	1	1	9	1	1	13	2	2	/	2	2	1	1	2	1	4	9	1	1	1	1	2	1	1
EVMSG20 10/18.5	1	1	7	2	1	1	1	10	1	1	15	2	2	/	2	2	1	1	2	1	4	10	1	1	1	1	2	1	1

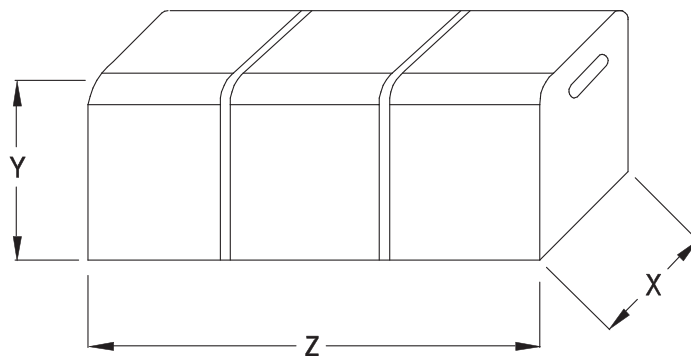
Pump Type	N°																						
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG20 1/2.2	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG20 2/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG20 3/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG20 4/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG20 5/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG20 6/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG20 7/15	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	
EVMSG20 8/15	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	
EVMSG20 9/18.5	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	
EVMSG20 10/18.5	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	

* only for Oval flange (N)

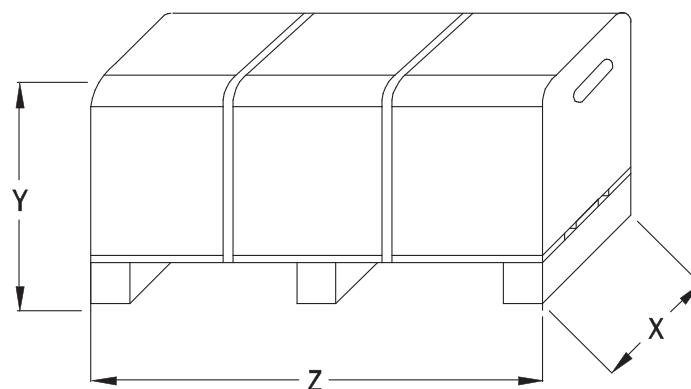
*** shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.211)

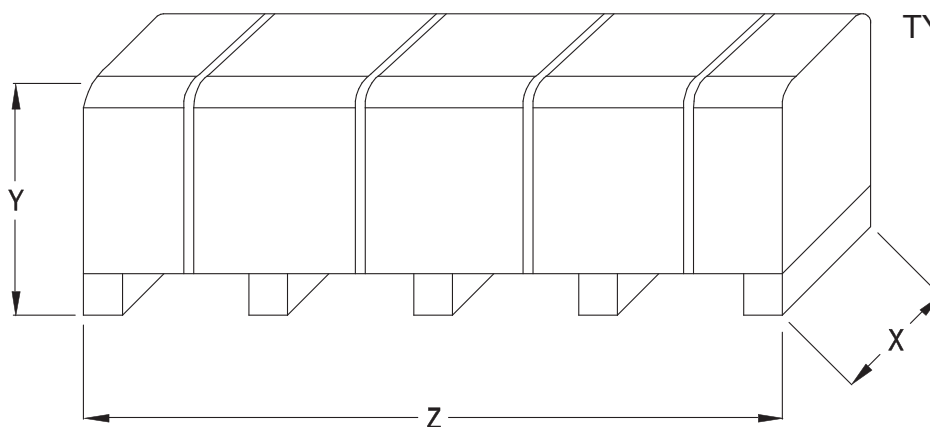
PACKING DRAWING
EVMS(.)1-3-5-10-15-20



TYPE 1



TYPE 2



TYPE 3

PACKING DATA EVMS(.)1-3-5

Pump Type	Pumps							Pumps with motor ~3							
	Packing [mm]			Weight [Kg] + Pack Type				Packing [mm]			Weight [Kg] + Pack Type				
	X	Y	Z	EVMS(L)		EVMSG		X	Y	Z	EVMS(L)		EVMSG		
1	EVMS(.)1 2/0.37	385	400	385	12.6	1	19.6	1	385	400	585	19.2	1	26.2	1
	EVMS(.)1 3/0.37	385	400	385	13.1	1	20.0	1	385	400	585	19.7	1	26.6	1
	EVMS(.)1 4/0.37	385	400	385	13.5	1	20.5	1	385	400	770	20.4	1	27.4	1
	EVMS(.)1 5/0.37	385	400	585	14.5	1	21.4	1	385	400	770	20.9	1	27.8	1
	EVMS(.)1 6/0.55	385	400	585	14.9	1	21.8	1	385	400	770	21.7	1	28.7	1
	EVMS(.)1 7/0.55	385	400	585	15.6	1	22.5	1	385	400	770	22.4	1	29.4	1
	EVMS(.)1 8/0.75	385	400	585	16.0	1	22.9	1	385	400	770	25.2	1	32.1	1
	EVMS(.)1 9/0.75	385	400	585	16.4	1	23.4	1	385	400	770	25.6	1	32.6	1
	EVMS(.)1 10/0.75	385	400	585	16.9	1	23.8	1	385	400	770	26.0	1	32.9	1
	EVMS(.)1 11/1.1	385	400	585	17.3	1	24.3	1	385	400	970	28.6	1	35.6	1
	EVMS(.)1 12/1.1	385	400	585	17.7	1	24.7	1	385	400	970	29.0	1	36.0	1
	EVMS(.)1 13/1.1	385	400	585	18.4	1	25.4	1	385	400	970	29.7	1	36.7	1
	EVMS(.)1 14/1.1	385	400	770	19.3	1	26.3	1	385	400	970	30.1	1	37.1	1
	EVMS(.)1 16/1.5	385	400	770	20.3	1	27.3	1	385	400	970	34.6	1	41.6	1
	EVMS(.)1 18/1.5	385	400	770	21.2	1	28.2	1	385	400	1170	36.1	1	43.1	1
	EVMS(.)1 20/1.5	385	400	770	22.1	1	29.1	1	385	400	1170	37.0	1	44.0	1
	EVMS(.)1 22/2.2	385	400	970	24.0	1	30.9	1	385	400	1170	39.9	1	46.9	1
	EVMS(.)1 24/2.2	385	400	970	24.9	1	31.9	1	385	400	1170	40.9	1	47.8	1
EVMS(.)1 26/2.2	385	400	970	25.8	1	32.8	1	385	400	1170	41.8	1	48.7	1	
EVMS(.)1 27/2.2	385	400	970	26.3	1	33.3	1	500	525	1350	62.2	3	69.1	3	
EVMS(.)1 29/2.2	385	400	970	27.2	1	34.2	1	500	525	1350	63.1	3	70.0	3	
3	EVMS(.)3 2/0.37	385	400	385	12.5	1	17.6	1	385	400	585	19.1	1	24.2	1
	EVMS(.)3 3/0.55	385	400	385	12.9	1	18.0	1	385	400	585	19.9	1	25.0	1
	EVMS(.)3 4/0.75	385	400	385	13.5	1	18.7	1	385	400	770	23.2	1	28.4	1
	EVMS(.)3 5/0.75	385	400	585	14.5	1	19.6	1	385	400	770	23.7	1	28.8	1
	EVMS(.)3 6/1.1	385	400	585	14.9	1	20.0	1	385	400	770	25.6	1	30.7	1
	EVMS(.)3 7/1.1	385	400	585	15.3	1	20.4	1	385	400	770	26.0	1	31.1	1
	EVMS(.)3 8/1.5	385	400	585	15.7	1	20.8	1	385	400	970	30.5	1	35.6	1
	EVMS(.)3 9/1.5	385	400	585	16.1	1	21.3	1	385	400	970	30.9	1	36.1	1
	EVMS(.)3 10/1.5	385	400	585	16.6	1	21.7	1	385	400	970	31.4	1	36.5	1
	EVMS(.)3 11/2.2	385	400	585	17.0	1	22.1	1	385	400	970	33.3	1	38.4	1
	EVMS(.)3 12/2.2	385	400	585	17.3	1	22.4	1	385	400	970	33.6	1	38.7	1
	EVMS(.)3 13/2.2	385	400	770	18.6	1	23.7	1	385	400	970	34.4	1	39.5	1
	EVMS(.)3 14/2.2	385	400	770	19.0	1	24.1	1	385	400	970	34.8	1	39.9	1
	EVMS(.)3 15/3.0	385	400	770	19.5	1	24.6	1	385	400	1170	42.9	1	48.0	1
	EVMS(.)3 16/3.0	385	400	770	20.5	1	25.6	1	385	400	1170	43.9	1	49.0	1
	EVMS(.)3 17/3.0	385	400	770	21.0	1	26.1	1	385	400	1170	44.4	1	49.5	1
	EVMS(.)3 19/3.0	385	400	770	21.9	1	27.0	1	400	510	1200	45.3	1	59.4	2
	EVMS(.)3 20/3.0	385	400	770	22.3	1	27.4	1	400	510	1200	45.7	1	59.8	2
EVMS(.)3 21/4.0	385	400	770	22.8	1	27.9	1	400	510	1200	61.7	2	66.8	2	
EVMS(.)3 22/4.0	385	400	970	23.6	1	28.7	1	400	510	1200	62.1	2	67.2	2	
EVMS(.)3 23/4.0	385	400	970	24.1	1	29.2	1	500	525	1350	73.5	3	78.6	3	
5	EVMS(.)5 2/0.75	385	400	385	12.7	1	17.8	1	385	400	770	22.4	1	27.5	1
	EVMS(.)5 3/1.1	385	400	585	13.7	1	18.8	1	385	400	770	24.4	1	29.5	1
	EVMS(.)5 4/1.5	385	400	585	14.4	1	19.5	1	385	400	770	28.6	1	33.7	1
	EVMS(.)5 5/2.2	385	400	585	14.9	1	20.0	1	385	400	770	30.6	1	35.7	1
	EVMS(.)5 6/2.2	385	400	585	15.3	1	20.5	1	385	400	770	31.0	1	36.2	1
	EVMS(.)5 7/3.0	385	400	585	16.1	1	21.2	1	385	400	970	39.4	1	44.5	1
	EVMS(.)5 8/3.0	385	400	585	16.4	1	21.5	1	385	400	970	39.7	1	44.8	1
	EVMS(.)5 9/3.0	385	400	585	16.9	1	22.0	1	385	400	970	40.2	1	45.3	1
	EVMS(.)5 10/4.0	385	400	770	17.9	1	23.0	1	400	510	1200	47.8	1	61.9	2
	EVMS(.)5 11/4.0	385	400	770	18.6	1	23.7	1	400	510	1200	48.5	1	62.6	2
	EVMS(.)5 12/4.0	385	400	770	19.7	1	24.8	1	400	510	1200	58.6	2	63.7	2
	EVMS(.)5 13/5.5	385	400	970	27.2	1	32.3	1	500	525	1350	87.1	3	92.2	3
	EVMS(.)5 14/5.5	385	400	970	27.7	1	32.8	1	500	525	1350	87.6	3	92.7	3
	EVMS(.)5 15/5.5	385	400	970	28.2	1	33.3	1	500	525	1350	88.1	3	93.2	3
	EVMS(.)5 16/5.5	385	400	970	28.8	1	33.9	1	500	525	1350	88.7	3	93.8	3
EVMS(.)5 17/7.5	385	400	970	29.4	1	34.5	1	500	525	1350	96.3	3	101.4	3	
EVMS(.)5 19/7.5	385	400	970	30.3	1	35.4	1	500	525	1540	99.9	3	105.0	3	

PACKING DATA EVMS(.)10-15-20

Pump Type	Pumps							Pumps with motor -3							
	Packing [mm]			Weight [Kg] + Pack Type				Packing [mm]			Weight + Packing [Kg]				
	X	Y	Z	EVMS(L)	EVMSG			X	Y	Z	EVMS(L)	EVMSG			
10	EVMS(.)10 1/0.75	385	400	585	23.1	1	26.5	1	385	400	770	32.3	1	35.7	1
	EVMS(.)10 2/1.5	385	400	585	23.3	1	26.7	1	385	400	770	37.5	1	40.9	1
	EVMS(.)10 3/2.2	385	400	585	24.1	1	27.6	1	385	400	770	39.8	1	43.3	1
	EVMS(.)10 4/3.0	385	400	585	25.1	1	28.5	1	400	510	1200	48.4	1	61.4	2
	EVMS(.)10 5/4.0	385	400	585	25.9	1	29.4	1	400	510	1200	65.3	2	68.8	2
	EVMS(.)10 6/4.0	385	400	585	26.8	1	30.2	1	400	510	1200	66.2	2	69.6	2
	EVMS(.)10 7/5.5	385	400	770	35.2	1	38.6	1	400	510	1200	84.6	2	88.0	2
	EVMS(.)10 8/5.5	385	400	770	36.4	1	39.8	1	400	510	1200	85.8	2	89.2	2
	EVMS(.)10 9/5.5	385	400	770	37.2	1	40.6	1	400	510	1200	86.6	2	90.0	2
	EVMS(.)10 10/7.5	385	400	770	38.0	1	41.5	1	500	525	1350	105.3	3	108.8	3
	EVMS(.)10 11/7.5	385	400	970	40.1	1	43.5	1	500	525	1350	107.0	3	110.4	3
	EVMS(.)10 12/7.5	385	400	970	41.0	1	44.4	1	500	525	1350	107.9	3	111.3	3
	EVMS(.)10 14/11	400	510	1200	51.0	2	54.4	2	500	525	1540	137.1	3	140.5	3
EVMS(.)10 15/11	400	510	1200	51.9	2	55.4	2	500	525	1540	138.0	3	141.5	3	
EVMS(.)10 16/11	400	510	1200	62.4	2	65.9	2	500	525	1540	138.9	3	142.4	3	
15	EVMS(.)15 1/1.5	385	400	585	21.2	1	29.3	1	385	400	770	35.4	1	43.5	1
	EVMS(.)15 2/3.0	385	400	585	21.5	1	29.7	1	400	510	1200	44.8	1	62.6	2
	EVMS(.)15 3/5.5	385	400	770	30.3	1	38.4	1	400	510	1200	79.7	2	87.8	2
	EVMS(.)15 4/7.5	385	400	770	31.5	1	39.6	1	400	510	1200	87.9	2	96.0	2
	EVMS(.)15 5/7.5	385	400	770	32.6	1	40.7	1	400	510	1200	89.0	2	97.1	2
	EVMS(.)15 6/11	385	400	770	42.4	1	50.6	1	500	525	1350	126.2	3	134.4	3
	EVMS(.)15 7/11	400	510	1200	54.3	2	62.4	2	500	525	1350	128.1	3	136.2	3
	EVMS(.)15 8/15	400	510	1200	55.6	2	63.7	2	500	525	1350	155.8	3	163.9	3
	EVMS(.)15 9/15	400	510	1200	56.9	2	65.0	2	500	525	1540	159.8	3	167.9	3
	EVMS(.)15 10/15	400	510	1200	58.2	2	66.3	2	500	525	1540	161.1	3	169.2	3
EVMS(.)15 11/18.5	400	510	1200	59.5	2	67.6	2	500	525	1540	177.5	3	185.6	3	
EVMS(.)15 12/18.5	400	510	1200	60.8	2	68.9	2	500	525	1540	178.8	3	186.9	3	
20	EVMS(.)20 1/2.2	385	400	585	21.1	1	29.3	1	385	400	770	36.8	1	45.0	1
	EVMS(.)20 2/4.0	385	400	585	21.5	1	29.7	1	400	510	1200	60.9	2	69.1	2
	EVMS(.)20 3/7.5	385	400	770	30.3	1	38.5	1	400	510	1200	86.7	2	94.9	2
	EVMS(.)20 4/7.5	385	400	770	31.5	1	39.7	1	400	510	1200	87.9	2	96.1	2
	EVMS(.)20 5/11	385	400	770	40.9	1	49.1	1	500	525	1350	124.7	3	132.9	3
	EVMS(.)20 6/11	385	400	970	41.6	1	49.7	1	500	525	1350	125.0	3	133.1	3
	EVMS(.)20 7/15	400	510	1200	45.1	1	62.3	2	500	525	1350	154.3	3	162.5	3
	EVMS(.)20 8/15	400	510	1200	46.4	1	63.6	2	500	525	1540	158.3	3	166.5	3
EVMS(.)20 9/18.5	400	510	1200	47.8	1	64.9	2	500	525	1540	174.8	3	182.9	3	
EVMS(.)20 10/18.5	400	510	1200	49.1	1	66.3	2	500	525	1540	176.1	3	184.3	3	

EVM

PRODUCT FEATURES

[General]

1. Pump Type

The **EVM** is non-self-priming, vertical multistage in line, centrifugal pumps.

2. Model range

The EVM comes in **32,45 and 64 m³/h** flow sizes for the majority market needs.

3. Maximum operating pressure

The EVM can be operated at **16,25 or 30 bar as maximum**.

4. Operating temperature range

The EVM can be operated **from - 15 to + 120 °C** as the maximum.




5. Material options

AISI 304, AISI 316 and **Cast iron** versions are available.

6. Motor

The EVM can be coupled with **the commercial motors** that are acquired in the markets.

7. Certifications

	Drinking water approval		Atmosferes explosibles approval
	DM174/2004 	ACS 	ATEX 2014/34/UE 
<u>Mechanical seal</u>	SiC/Carbon_FPM	-	-
EVMG	•	-	-
EVM	•	-	-
EVML	•	-	-

• Standard

8. Conform to the provisions of the European directives



[Main Product Features]

1. Robust constructions

- **Commercial motors** can be fitted to all of the pump models with additional ball bearing on the bracket
- **Stainless cast** bottom casing to ensure 30 bar working pressure
- **Rolling groove pump shaft** for high torque transmissions

2. Energy saving

- **High efficiency IE2 motor**.
- **The VFD (Variable frequency drive)** can be fitted on the motor for the pressure boosting systems

3. Easy maintenance

The cartridge shaft seal enables **the plug in replacement** of the shaft seal without disassembling the motor bracket.

PRODUCT SPECIFICATIONS EVM(.)32-45-64

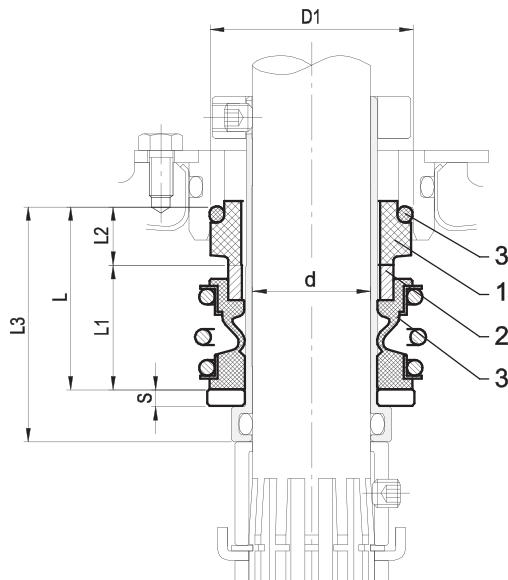
PUMP											
Version		EVMG			EVM			EVML			
Operating range	Nominal flow rate (m3/h)	32	45	64	32	45	64	32	45	64	
	Maximum working pressure	1.6 / 3.0 MPa (16 bar/ 30 bar)									
	Liquid temperature range	-15 °C to 120 °C									
Key Components Material	Impeller	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)			
	Intermediate casing	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)			
	Liner ring	EVM 32	EN 1.4301 (AISI 304) + PTFE						EN 1.4401 (AISI 316) + PTFE		
		EVM 45-64	EN 1.4401 (AISI 316) + PTFE								
	Bottom casing	Cast Iron			ASTMCF8			ASTMCF8M			
	Casing cover	Cast Iron			Cast Iron + EN 1.4301 (AISI 304)			Cast Iron + EN 1.4404 (AISI 316L)			
	Shaft	EN 1.4404 (AISI 316L)			●	●	●	●	●	●	
	Shaft sleeve bearing	Tungstene carbide									
	Shaft Seal	type		Cartridge mechanical seal							
		material		Silicon Carbide / Carbon / FPM							
	O-ring	EPDM						FPM			
	Outer casing	EN 1.4301 (AISI 304)						EN 1.4404 (AISI 316L)			
	Motor Bracket	Cast Iron									
	Tie rod	Carbon Steel									
	Coupling	Carbon Steel									
Base	Cast Iron										
Pipe connection	Round Flange (DIN)	●	●	●	●	●	●	●	●	●	

Legend: ● Available

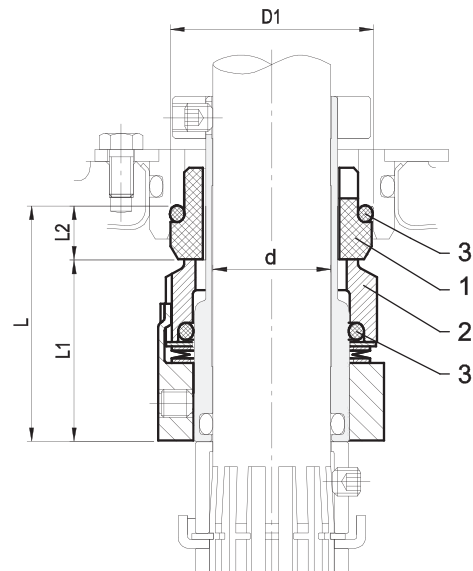
MOTOR		
Power Source	Frequency	60 Hz
	Phase	Three Phase
	Rotation speed	≈ 3500 min ⁻¹
	Power rating	4.0 ÷ 37 kW
		5.5 ÷ 50 HP
Voltage	220/380 V - 5% /+ 10% (up to 4kW) 265/460 ± 10% V (up to 4kW)	
	380/660 V - 5% /+ 10% (above 5.5 kW) 460 ± 10% V (above 5.5 kW)	
Type	Type	TEFC
	Efficiency Level	IE2 : up to 4.0 kW (220-380V / 265-460V)
		IE2 : above 5.5 kW (380-660V / 460V)
	No° of poles	2
	Protection degree	IP 55
Insulation Class	F (temperature rise class B)	
Others	Thermal Protection	PTC is available for the above 22 kW included
	Casing Material	Aluminium
	Flange mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (above 5.5 kW)

SHAFT SEAL EVM(.)32-45-64

1. Shaft Seal



up to 25 bar
Cartridge Unbalanced type

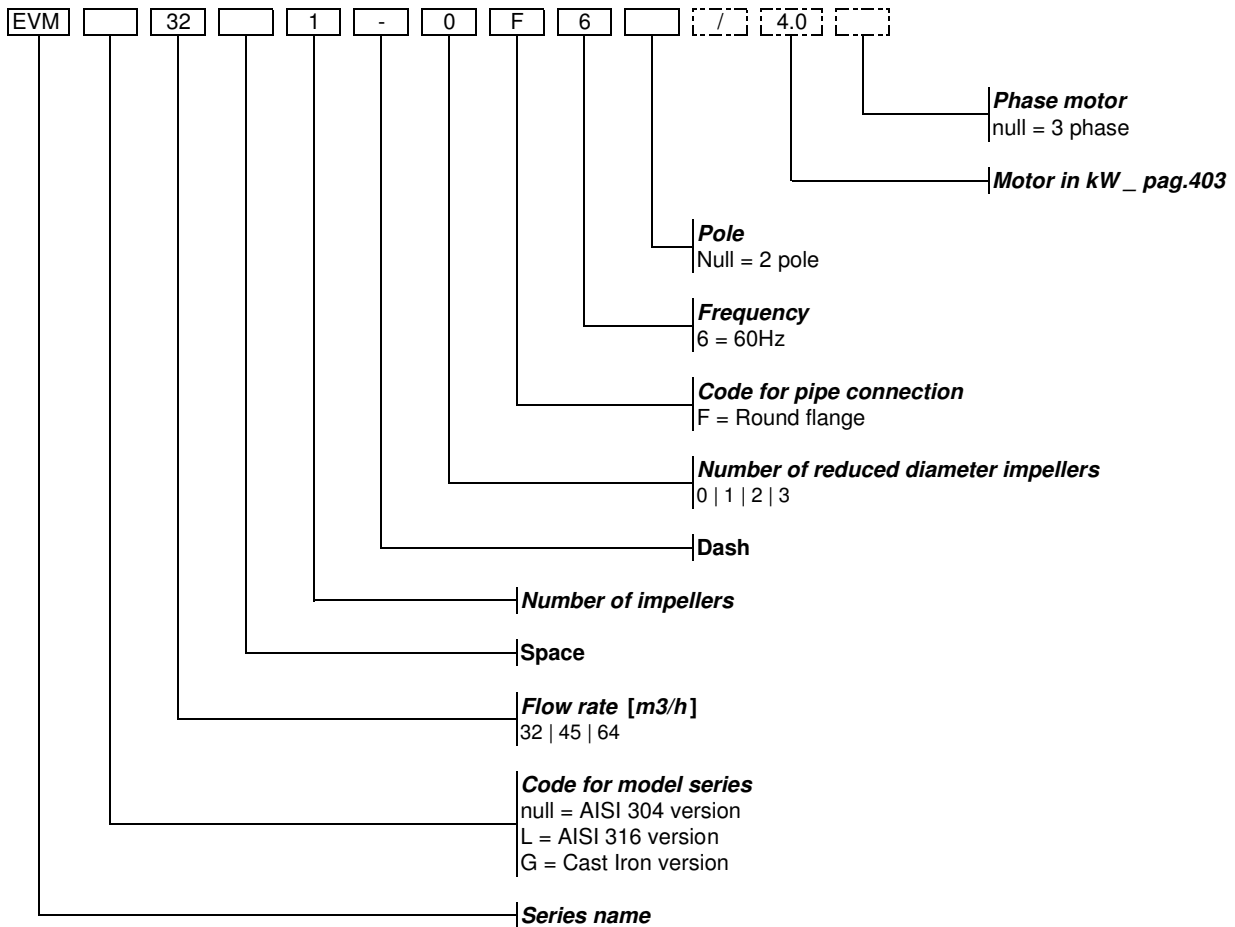


up to 30 bar
Cartridge Balanced type

2. Type of Shaft Seal and Dimensions [mm]

Size [mm]	Max operating pressure [bar]	d [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	S [mm]	Material		
									1 Stationary Seal Ring	2 Rotary Seal Ring	3 Rubber
25	25	25	43	39	26.5	12.5	50	3.5	Carbon graphite	Silicon carbide	FPM
	30			50	38.5	11.5	-	-			

TYPE KEY EVM(.)32-45-64



Example for pump without motor:
EVM32 1-0F6

Example for pump with motor:
EVM32 1-0F6/4.0

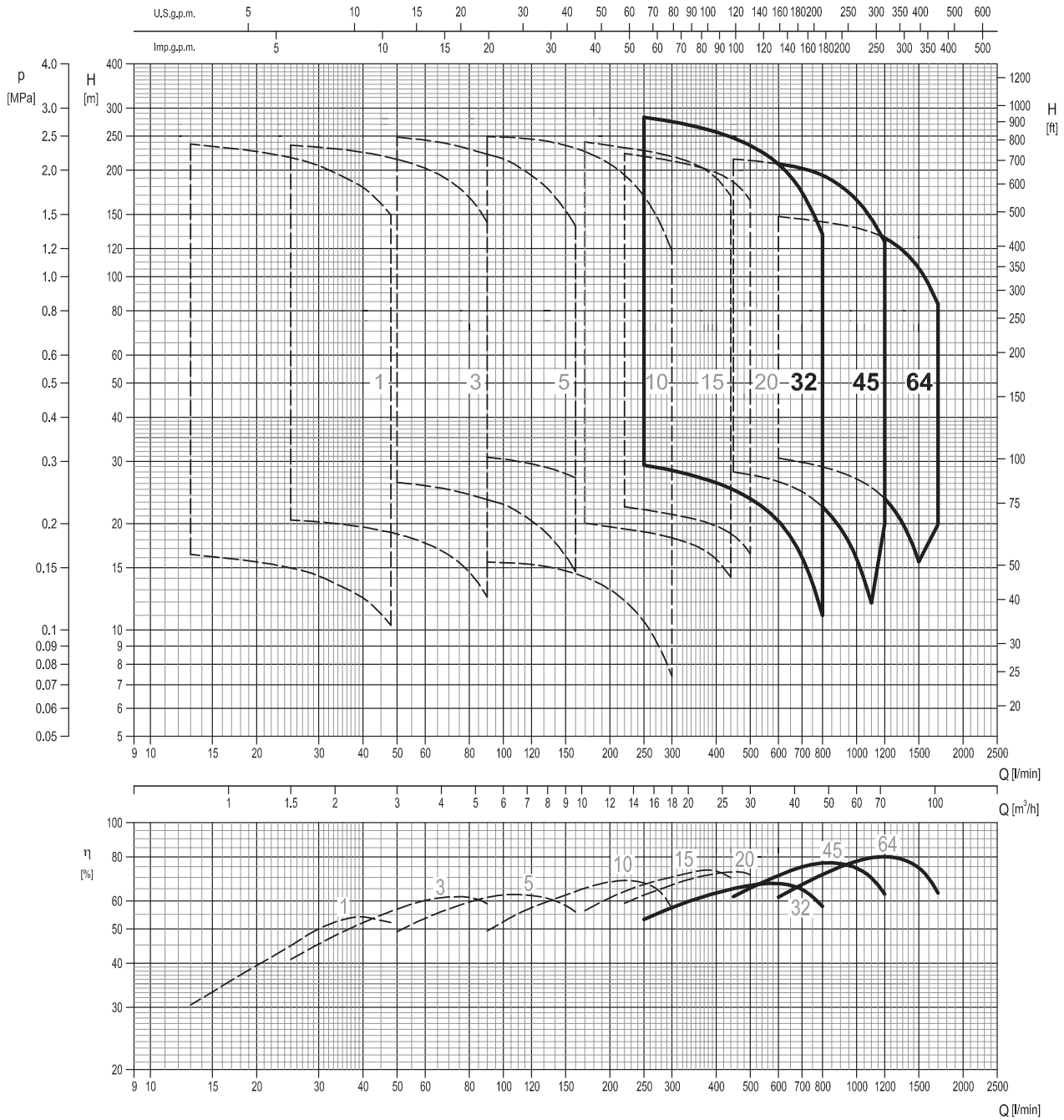
NAMEPLATE

P.IVA 01234560221		EBARA		CE	
Via Campo Sportivo, 30		38023 Cles (TN) - ITALY		MADE IN ITALY	
TYPE	①	N	⑪		
H _{max}	④	m	H _{min}	⑤	m
Q	②	l/min	H	③	m
P2	⑥	kW	Hz	⑧	min ⁻¹ ⑨
HP	⑦	PN ^o	⑩		
MEI >	⑫	Hyd. eff.	⑬	%	

- 1) "TYPE" Pump model
- 2) "Q" Indicates upper and lower flow rate limits
- 3) "H" Indicates head limits corresponding to minimum and maximum flow rate
- 4) "Hmax" Maximum head
- 5) "Hmin" Minimum head
- 6) "P2" Rated power of the motor (output at shaft)
- 7) "HP" Rated power of the motor expressed in HP (Horse Power)
- 8) "Hz" Frequency
- 9) "min-1" Speed of rotation
- 10) "P/N^o" Pump item number
- 11) "N" Material code
- 12) "MEI" Index of the pump's quality in relation to its efficiency
- 13) "Hyd. Eff. " Hydraulic efficiency of the pump

PERFORMANCE RANGE
EVM(.)32-45-64

EVM PERFORMANCE RANGE



CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B.

The curves refer to effective speed of asynchronous motors at 60 Hz, 2 poles.

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt).

The NPSH curve is an average curve obtained in the same conditions of performance curves.

During the pump selection, consider to get a safety margin of at least 0.5 m.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

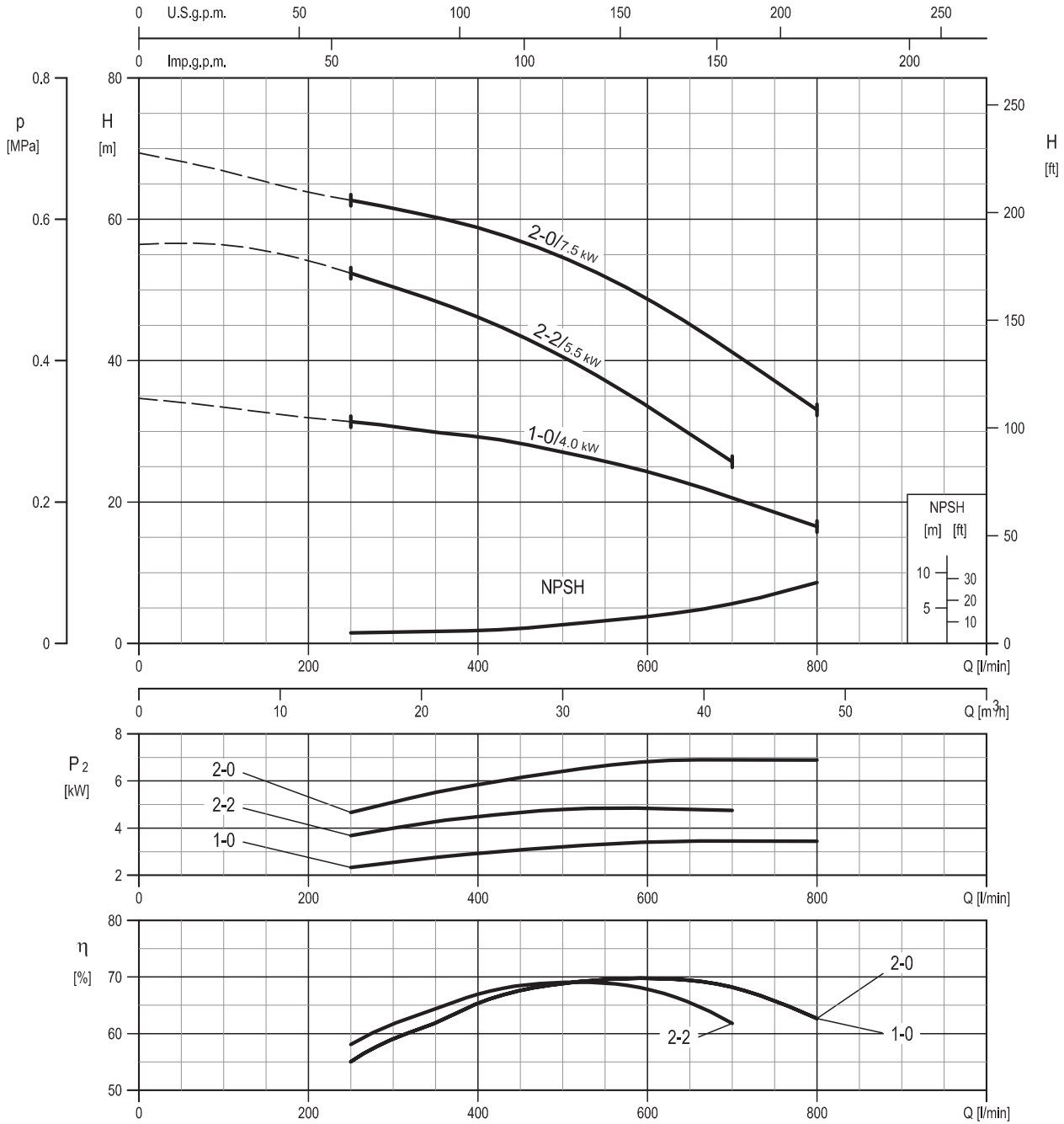
Q	-	volume flow rate
H	-	total head
P_2	-	pump power input (shaft power)
η	-	pump efficiency
NPSH	-	net positive suction head required by the pump

SELECTION CHART
EVM(.)32-45-64

Pump Type	Motor			Maximum working pressure [MPa]	Q = Capacity												
	Three phase	[kW]	[HP]		Size	l/min	0	250	450	600	700	800	950	1100	1200	1500	1700
		m³/h	0		15	27	36	42	48	57	66	72	90	102			
H = Total manometric head in meters																	
32	EVM(.)32 1-0F6/4.0	4.0	5.5	112 M	1.6	34.7	31.4	28.3	24.3	20.6	16.5	-	-	-	-	-	
	EVM(.)32 2-2F6/5.5	5.5	7.5	132 S		56.5	52.5	43.5	33.6	25.7	-	-	-	-	-	-	
	EVM(.)32 2-0F6/7.5	7.5	10	132 S		69.5	63	56.6	48.5	41	33.1	-	-	-	-	-	
	EVM(.)32 3-3F6/7.5	7.5	10	132 S		84.5	79	65.3	50.5	38.5	-	-	-	-	-	-	
	EVM(.)32 3-0F6/11	11	15	160 M		104	94	85	72.5	62	49.5	-	-	-	-	-	
	EVM(.)32 4-3F6/11	11	15	160 M		119	110	93.5	74.5	59	-	-	-	-	-	-	
	EVM(.)32 4-0F6/15	15	20	160 M		139	125	113	97	82.5	66	-	-	-	-	-	
	EVM(.)32 5-3F6/15	15	20	160 M		152	143	124	99.5	79.5	61.5	-	-	-	-	-	
	EVM(.)32 5-2F6/15	15	20	160 M		158	147	130	107	86.5	67.5	-	-	-	-	-	
	EVM(.)32 5-0F6/18.5	18.5	25	160 L		169	157	141	121	100	79.5	-	-	-	-	-	
	EVM(.)32 6-3F6/18.5	18.5	25	160 L		186	174	152	124	100	77.5	-	-	-	-	-	
	EVM(.)32 6-0F6/22	22	30	180 M		203	189	170	145	121	95.5	-	-	-	-	-	
	EVM(.)32 7-3F6/22	22	30	180 M		220	205	180	148	120	93	-	-	-	-	-	
	EVM(.)32 7-2F6/22	22	30	180 M		221	210	186	155	127	99.5	-	-	-	-	-	
	EVM(.)32 7-0F6/30	30	40	200 L		237	220	198	169	141	112	-	-	-	-	-	
	EVM(.)32 8-3F6/30	30	40	200 L		254	237	209	172	140	109	-	-	-	-	-	
EVM(.)32 8-0F6/30	30	40	200 L	271	252	226	194	161	127	-	-	-	-	-			
EVM(.)32 9-3F6/30	30	40	200L	288	268	237	196	160	125	-	-	-	-	-			
EVM(.)32 9-0F6/30	30	40	200 L	305	283	255	218	181	143	-	-	-	-	-			
EVM(.)32 10-4F6/30	30	40	200 L	316	295	259	213	173	135	-	-	-	-	-			
45	EVM(.)45 1-1F6/5.5	5.5	7.5	132 S	1.6	31	-	28	26.3	24.6	22.3	17.7	11.9	-	-		
	EVM(.)45 1-0F6/7.5	7.5	10	132 S		39.8	-	36.9	35.6	34.4	32.7	28.8	23.8	20	-		
	EVM(.)45 2-2F6/11	11	15	160 M		62	-	56.5	53.5	50.5	46	37.7	26.9	-			
	EVM(.)45 2-1F6/11	11	15	160 M		71	-	65.5	63	60	56.5	49	38.7	-			
	EVM(.)45 2-0F6/15	15	20	160 M		79.5	-	74.5	72	70	67	60	50.5	43.5			
	EVM(.)45 3-3F6/15	15	20	160 M		93	-	85	80.5	76.5	70	57.5	42	-			
	EVM(.)45 3-2F6/15	15	20	160 M		102	-	94	90	86	80.5	69	53.5	-			
	EVM(.)45 3-1F6/18.5	18.5	25	160 L		111	-	103	99.5	96	91	80	65.5	54.5			
	EVM(.)45 3-0F6/22	22	30	180 M		119	-	112	109	106	101	91	77.5	67			
	EVM(.)45 4-3F6/18.5	18.5	25	160 L		133	-	122	117	112	104	89	68.5	53			
	EVM(.)45 4-2F6/22	22	30	180 M		142	-	131	127	122	115	100	80.5	65.5			
	EVM(.)45 4-1F6/30	30	40	200 L		150	-	140	136	131	125	111	92.5	78			
	EVM(.)45 4-0F6/30	30	40	200 L		159	-	149	145	141	135	122	104	91			
	EVM(.)45 5-3F6/30	30	40	200 L		173	-	160	154	148	139	120	95	76.5			
	EVM(.)45 5-2F6/30	30	40	200 L		181	-	169	163	157	149	131	107	89			
	EVM(.)45 5-1F6/30	30	40	200 L		190	-	178	172	167	159	142	119	102			
64	EVM(.)64 1-1F6/7.5	7.5	10	132 S	1.6	33.9	-	-	30.7	29.8	28.9	27.4	25.3	23.5	15.6		
	EVM(.)64 1-0F6/11	11	15	160 M		42.5	-	-	38.5	37.7	36.8	35.6	33.9	32.5	26		
	EVM(.)64 2-2F6/15	15	20	160 M		68	-	-	62	60.5	59	56.5	53	49.5	35.3		
	EVM(.)64 2-1F6/18.5	18.5	25	160 L		76.5	-	-	70	68.5	67	64.5	61.5	58.5	45.5		
	EVM(.)64 2-0F6/22	22	30	180 M		85	-	-	77.5	76	75	73	70	67.5	56		
	EVM(.)64 3-3F6/22	22	30	180 M		102	-	-	93.5	91	89	85.5	80.5	76	55		
	EVM(.)64 3-2F6/30	30	40	200 L		110	-	-	101	99	97	93.5	89	84.5	65.5		
	EVM(.)64 3-1F6/30	30	40	200 L		119	-	-	109	107	105	102	97.5	93.5	75.5		
	EVM(.)64 3-0F6/30	30	40	200 L		128	-	-	117	115	113	110	106	103	86		
	EVM(.)64 4-3F6/30	30	40	200 L		144	-	-	132	130	127	123	116	111	85		
	EVM(.)64 4-2F6/37	37	50	200 L		153	-	-	140	138	135	131	125	120	95.5		
	EVM(.)64 4-1F6/37	37	50	200 L		162	-	-	148	146	143	139	134	129	106		

1.6 MPa=16 bar ; 2.5 MPa=25 bar; 3.0 MPa = 30 bar

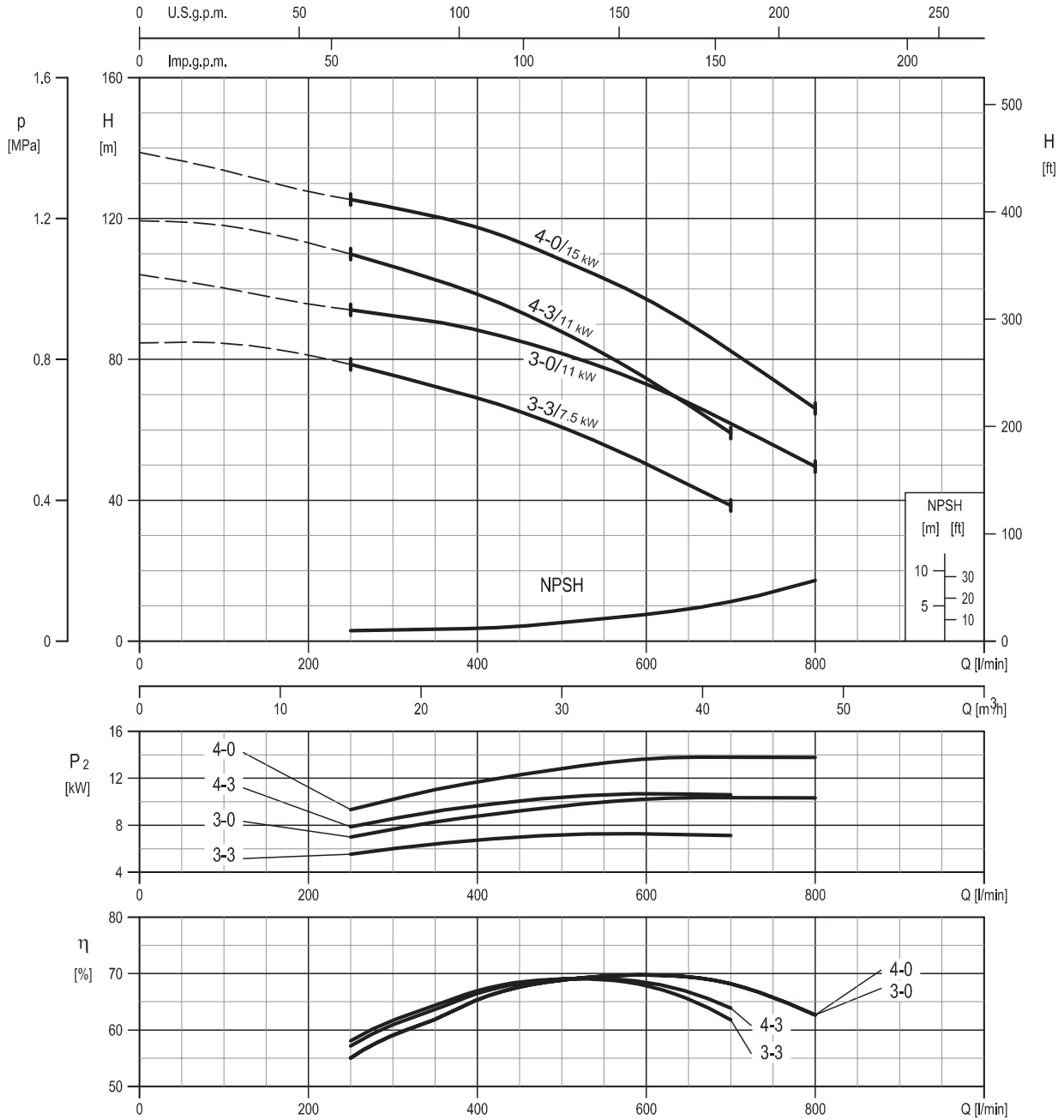
PERFORMANCE CURVE EVM(L)32



Rotation speed $\approx 3480 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

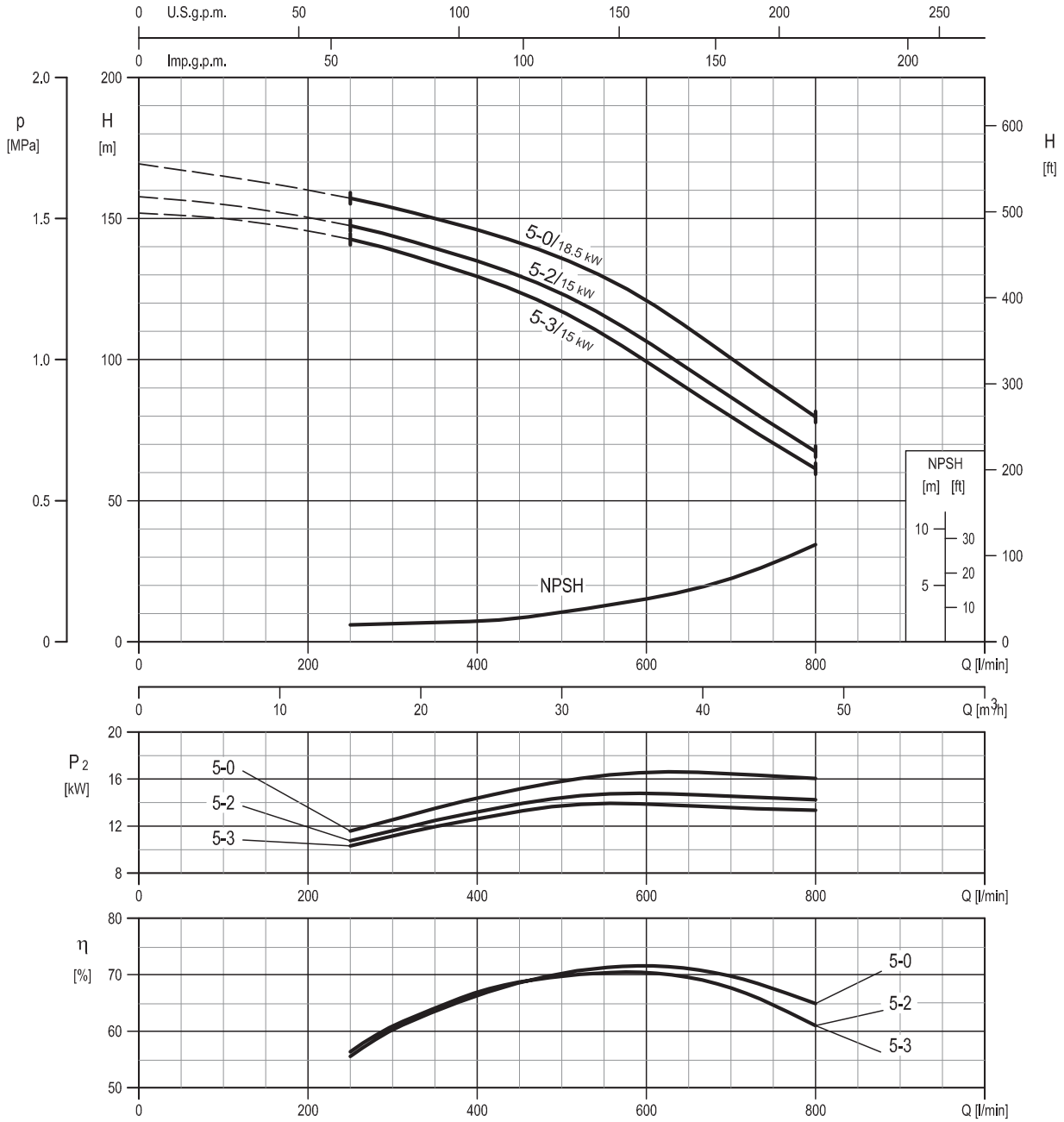
PERFORMANCE CURVE
EVM(L)32

EVM(L)32



Rotation speed ≈3500 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

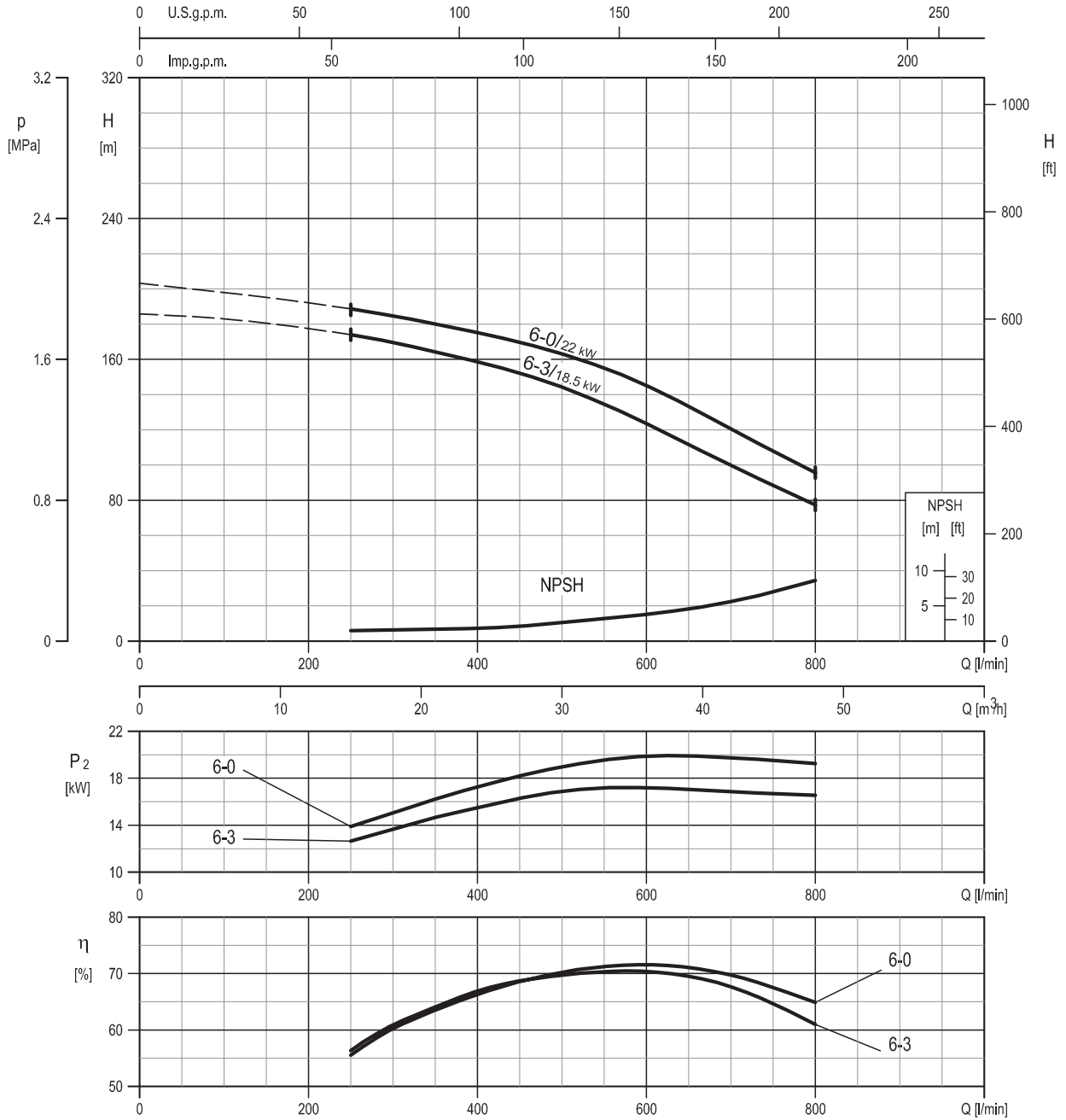
PERFORMANCE CURVE EVM(L)32



Rotation speed $\approx 3500 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

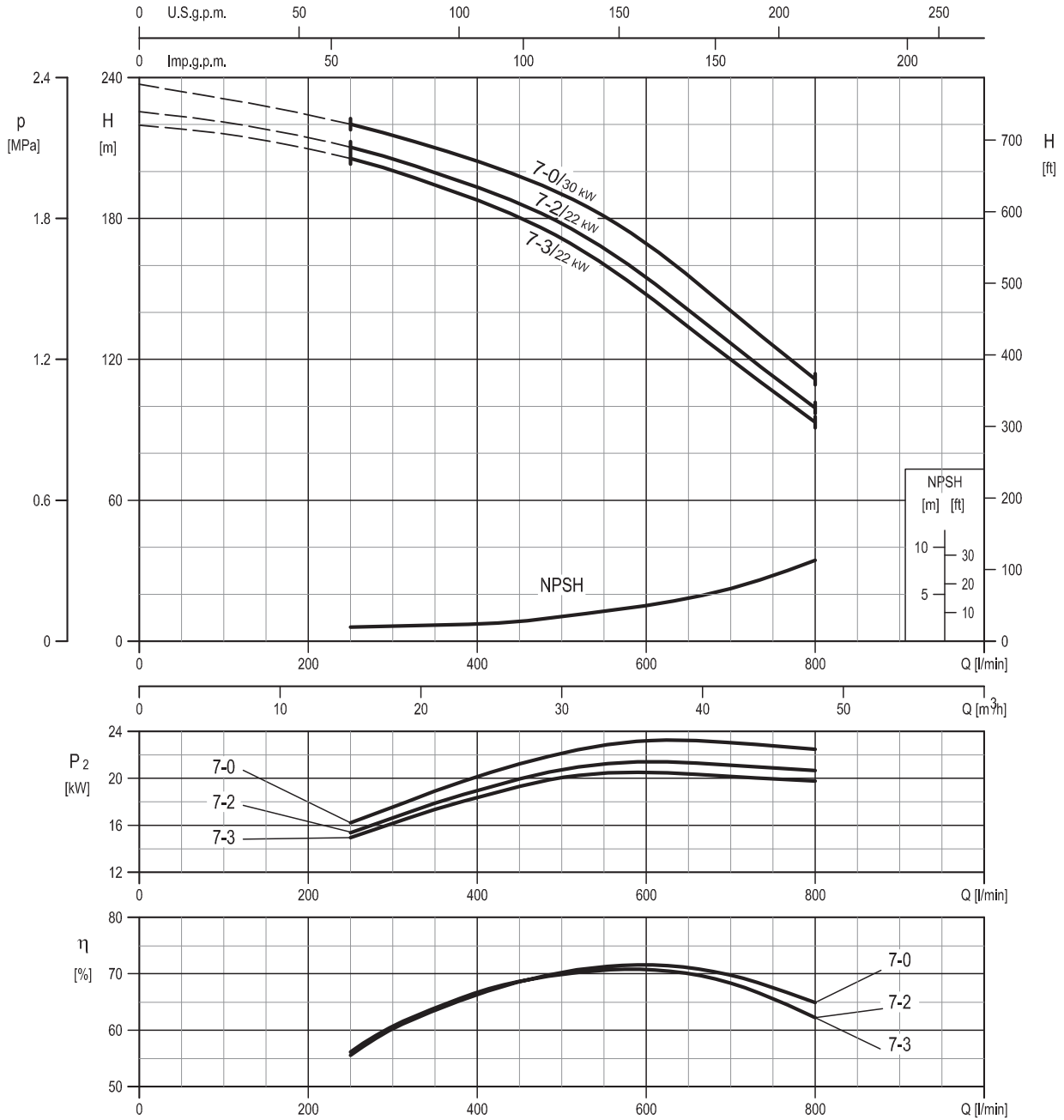
PERFORMANCE CURVE
EVM(L)32

EVM(L)32



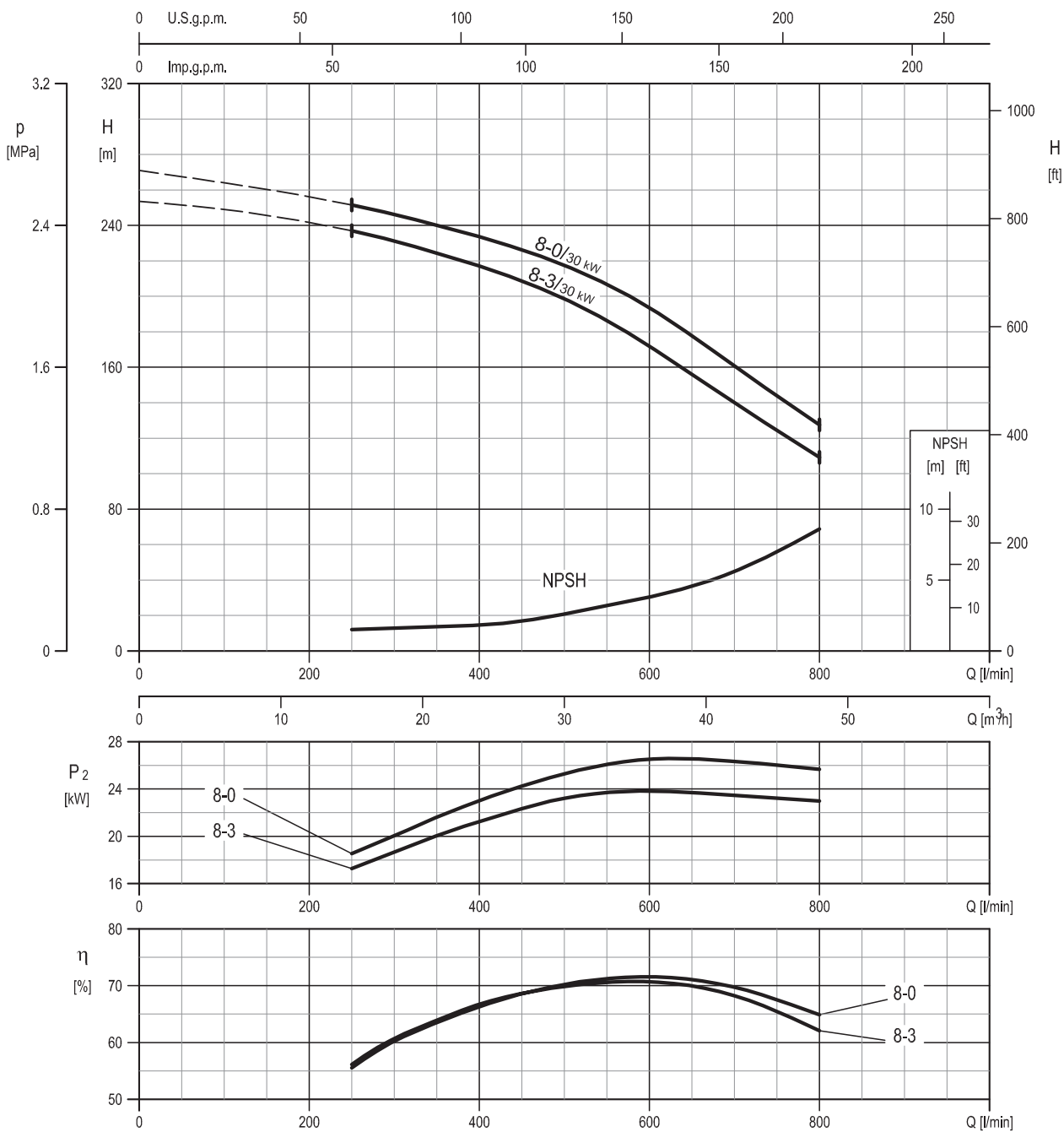
Rotation speed ≈ 3510 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE EVM(L)32



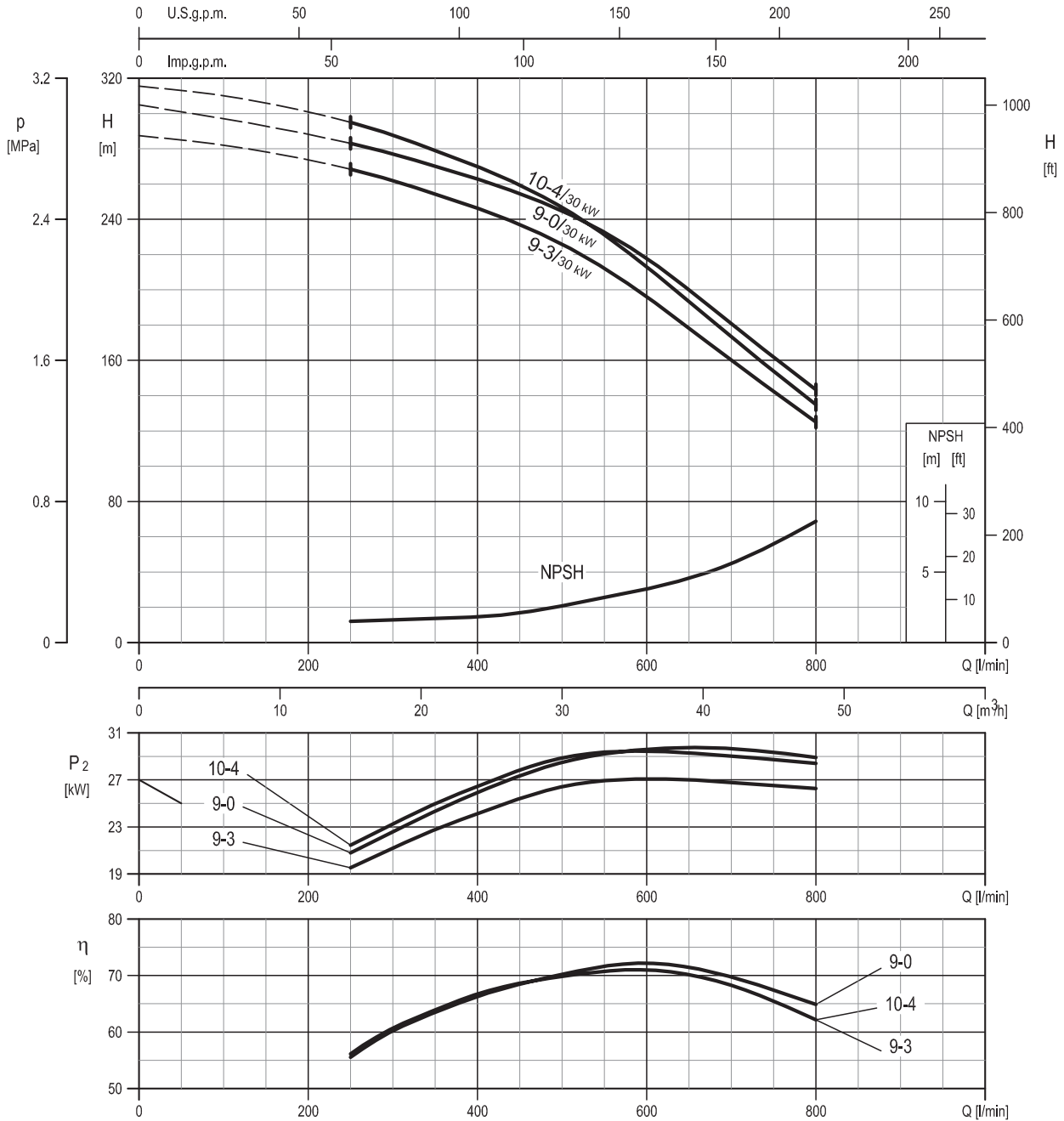
Rotation speed $\approx 3520 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVM(L)32



Rotation speed $\approx 3540 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

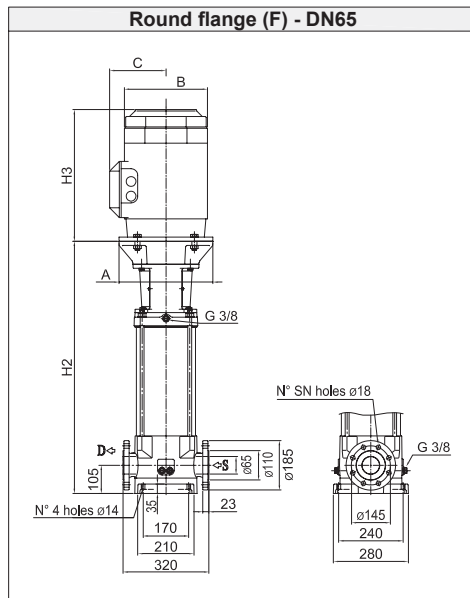
PERFORMANCE CURVE EVM(L)32



Rotation speed $\approx 3530 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA
EVM(L)32

Dimensional sketch

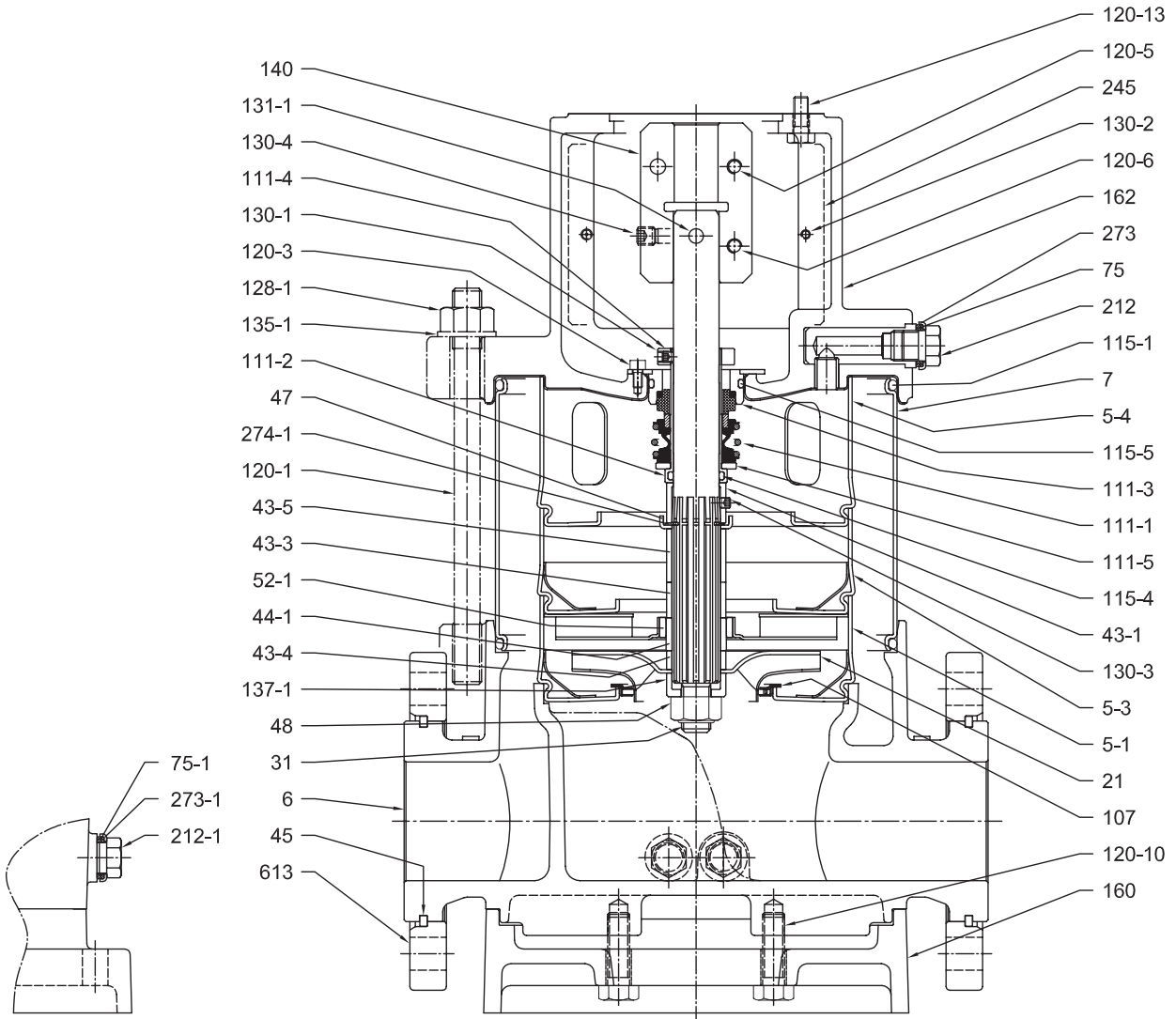


Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Round flange (F)			
		kW	Size	A	B	C	H3	H2	SN	Weight Pump	Weight Pump + Motor
EVM(L)32 1-0F6/4.0	1.6	4.0	112 M	ø160	196	155	306	503	4	56	82.5
EVM(L)32 2-2F6/5.5	1.6	5.5	132 S	ø300	225	160	328	524	4	58	96.6
EVM(L)32 2-0F6/7.5	1.6	7.5	132 S	ø300	225	160	350	524	4	58	98.4
EVM(L)32 3-3F6/7.5	1.6	7.5	132 S	ø300	225	160	350	572	4	74	114.4
EVM(L)32 3-0F6/11	1.6	11	160 M	ø350	248	194	476	703	4	74	136.5
EVM(L)32 4-3F6/11	1.6	11	160 M	ø350	248	194	476	751	4	77	139.5
EVM(L)32 4-0F6/15	1.6	15	160 M	ø350	317	238	498	751	4	77	165.9
EVM(L)32 5-3F6/15	1.6	15	160 M	ø350	317	238	498	799	4	96	184.9
EVM(L)32 5-2F6/15	1.6	15	160 M	ø350	317	238	498	799	4	96	184.9
EVM(L)32 5-0F6/18.5	1.6	18.5	160 L	ø350	317	238	542	799	4	96	200
EVM(L)32 6-3F6/18.5	2.5	18.5	160 L	ø350	317	238	542	847	8	99	203
EVM(L)32 6-0F6/22	2.5	22	180 M	ø350	360	268	577	847	8	99	262
EVM(L)32 7-3F6/22	2.5	22	180 M	ø350	360	268	577	895	8	102	265
EVM(L)32 7-2F6/22	2.5	22	180 M	ø350	360	268	577	895	8	102	265
EVM(L)32 7-0F6/30	2.5	30	200 L	ø400	399	300	658	910	8	105	333
EVM(L)32 8-3F6/30	2.5	30	200 L	ø400	399	300	658	958	8	105	333
EVM(L)32 8-0F6/30	3.0	30	200 L	ø400	399	300	658	958	8	105	333
EVM(L)32 9-3F6/30	3.0	30	200 L	ø400	399	300	658	1006	8	108	336
EVM(L)32 9-0F6/30	3.0	30	200 L	ø400	399	300	658	1006	8	108	336
EVM(L)32 10-4F6/30	3.0	30	200 L	ø400	399	300	658	1054	8	108	336

1.6 MPa=16 bar ; 2.5 MPa=25 bar; 3.0 MPa = 30 bar

SECTIONAL VIEW EVM(L)32

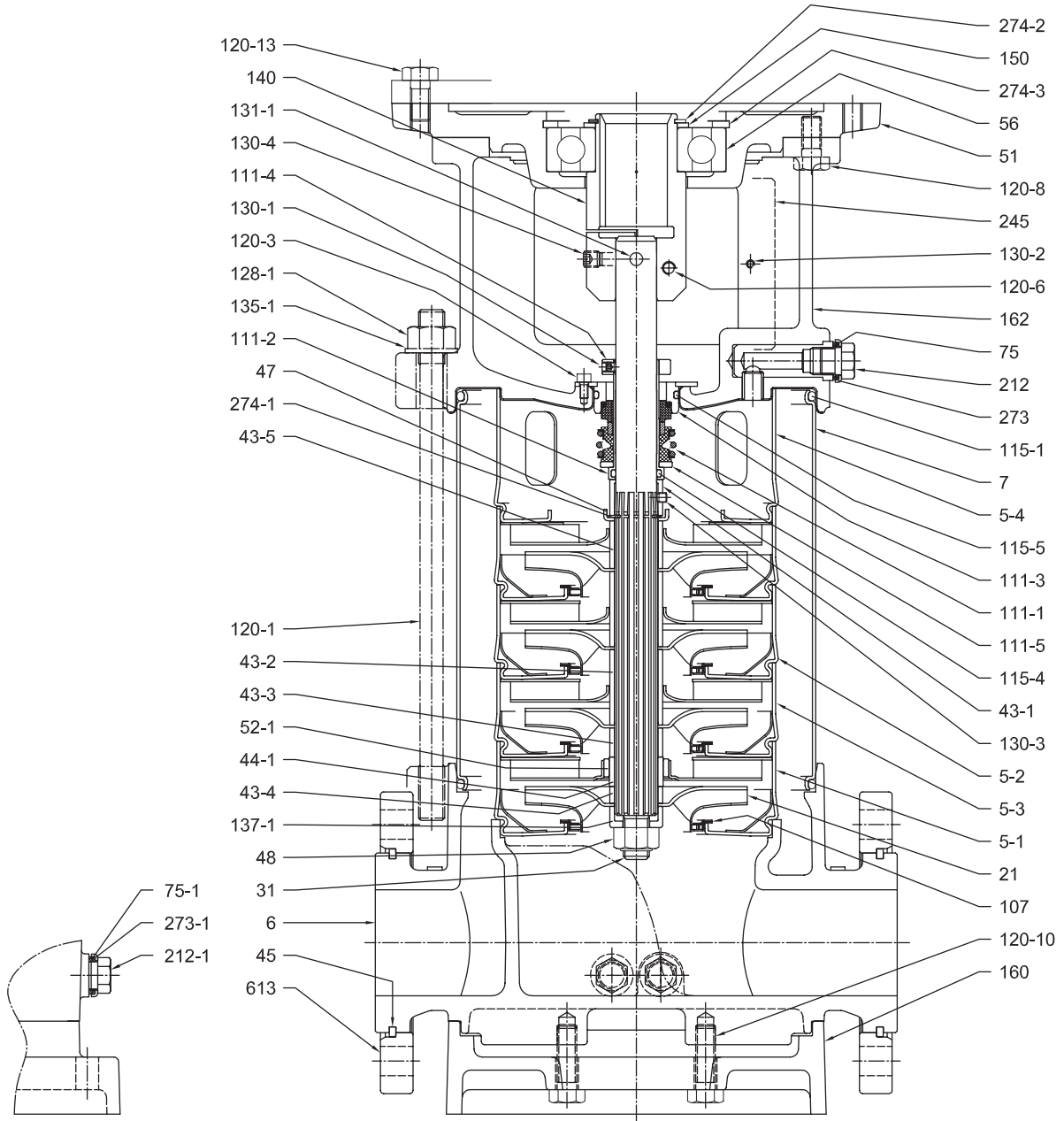


Pump without ball bearing

EVM(L)32

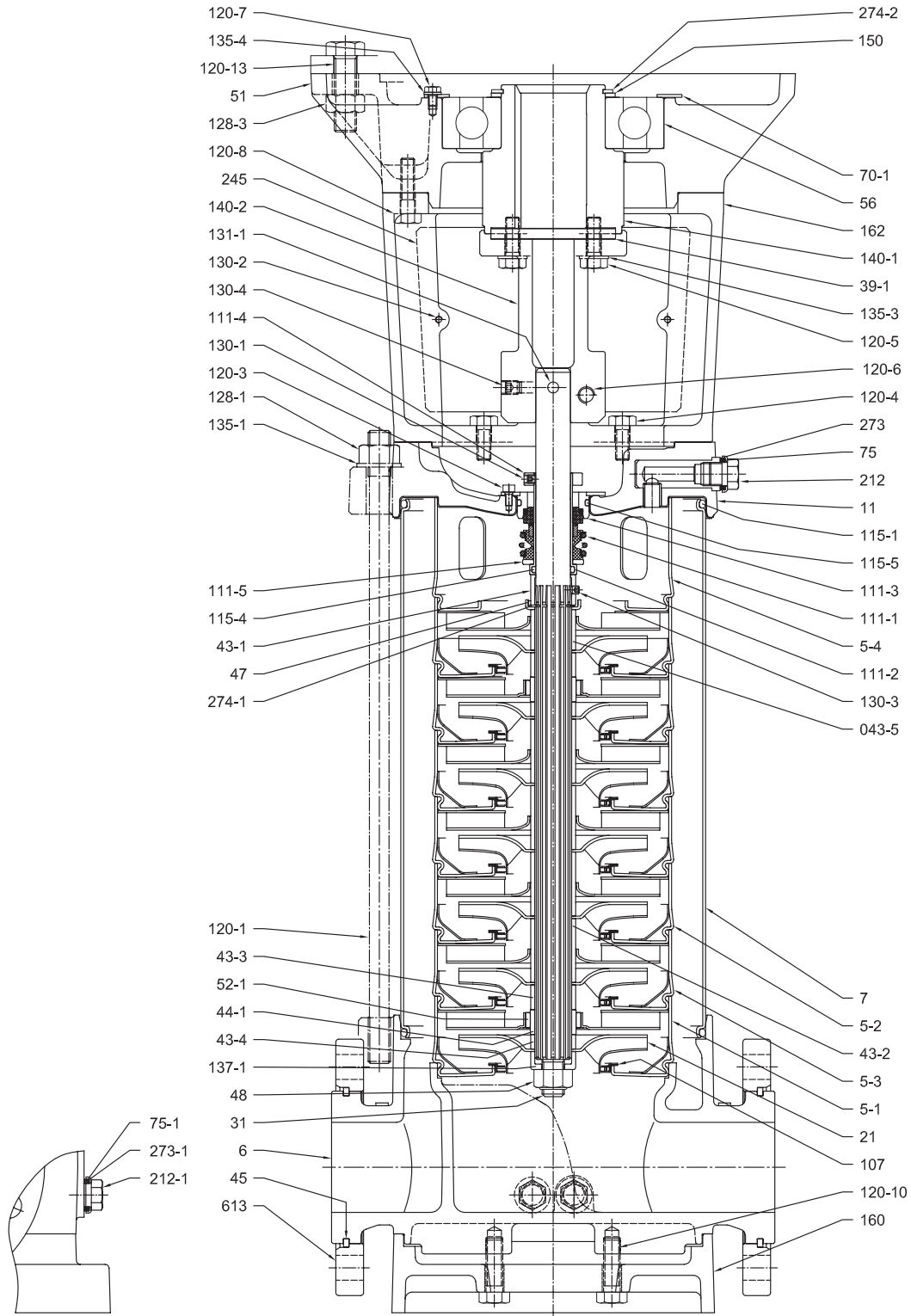
SECTIONAL VIEW
EVM(L)32

EVM(L)32



Pump with single ball bearing

SECTIONAL VIEW EVM(L)32

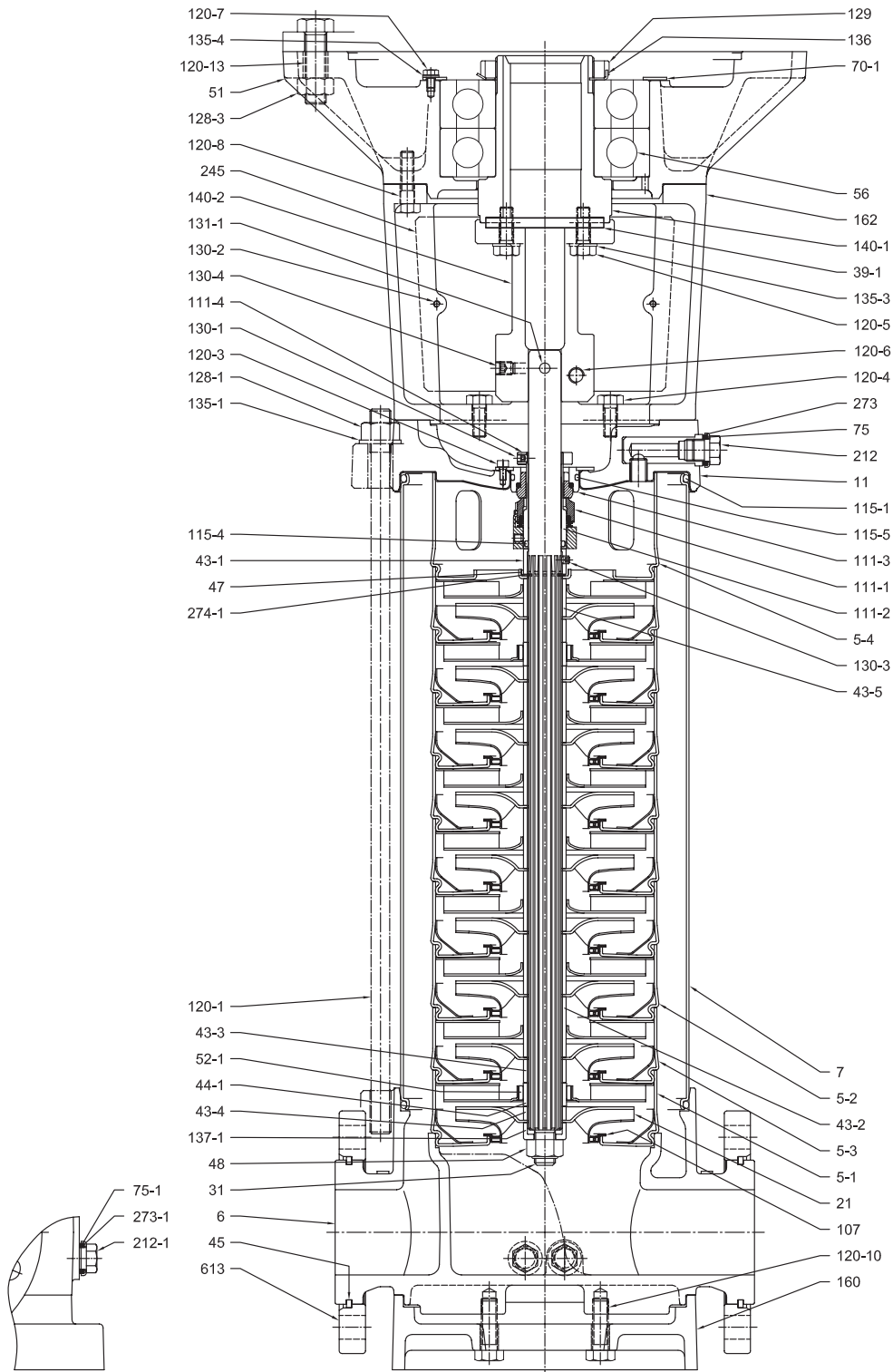


Pump with single ball bearing

EVM(L)32

SECTIONAL VIEW
EVM(L)32

EVM(L)32



Pump with double ball bearingm

SECTIONAL TABLE EVM(L)32

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVM	EVML		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
11	Casing cover	Cast Iron + EN 1.4301 (AISI 304)	Cast Iron + EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21-1	Reduced impeller				
31	Shaft	EN 1.4404 (AISI 316L)			
39-1	Key	Carbon Steel		12x8x90	UNI 6604
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.402 (AISI 420)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M16	
51	Motor adapter	Cast iron EN-GJL-200-EN 1561			
52-1	Bearing	Tungsten carbide			
56	Ball bearing	see table page 322			
70-1	Ring for bearing	EN 1.4301 (AISI 304)			
75	O-Ring (plug)	EPDM	FPM		
75-1	O-Ring (plug)	EPDM	FPM		
107	Liner ring	PTFE / EN 1.4301 (AISI 304)	PTFE / EN 1.4401 (AISI 316)		
111-1	Mechanical Seal	Silicon carbide / Carbon / FPM			
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-4	Seal holder	Brass OT 58 UNI 5705	EN 1.4404 (AISI 316L)		
111-5	Adjusting ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
115-1	O-Ring (outer casing)	EPDM	FPM	Ø208.91x5.34	
115-4	O-Ring (cartridge sleeve)	EPDM	FPM	Ø24.99x3.59	
115-5	O-Ring (seal cover)	EPDM	FPM	Ø44.04x3.53	
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1			

SECTIONAL TABLE
EVM(L)32

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVM	EVML		
120-3	Screw (mechanical seal)	A2-70 UNI 7323		M5xX10	UNI 5931
120-4	Screw (casing cover)	Galvanized steel 8.8 strenght class ISO 898/1		M10x25	UNI 5739
120-5	Screw for coupling	EVM32 1	Galvanized steel 8.8 strenght class ISO 898/1	M6x16	UNI 5931
		EVM32 3 to 10		M8x20	UNI 5931
120-6	Screw for coupling	EVM32 1 to 3-3	Galvanized steel 8.8 strenght class ISO 898/1	M6x16	UNI 5931
		EVM32 3-0 to 10-3		M8x20	UNI 5931
120-7	Screw (bearing)	Galvanized steel 8.8 strenght class ISO 898/1		M6x10	UNI 5739
120-8	Screw (bearing housing)	EVM32 3-0 to 10-3	Galvanized steel 8.8 strenght class ISO 898/1	M12x25	UNI 5739
		EVM32 2-0 to 3-3		M10x30	UNI 5739
120-10	Screw (base plate)	Galvanized steel 8.8 strenght class ISO 898/1		M12x40	UNI 5739
120-13	Screw for motor	EVM32 1	Galvanized steel 8.8 strenght class ISO 898/1	M8x20	UNI 5739
		EVM32 2-0 to 3-3		M12x30	UNI 5739
		EVM32 3-0 to 10-3		M16x65	UNI 5739
128-1	Nut for tie rod	Galvanized steel		M16	UNI 5588
128-3	Nut (motor)	Galvanized steel		M16	UNI 5588
129	Lock nut	Carbon Steel			
130-1	Set screw	A2-70 UNI 7323		M6x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5x6	UNI 7687
130-3	Set screw (mechanical seal)	A2-70 UNI 7323		M6x6	UNI 5923
130-4	Set screw (coupling pin)	Carbon Steel		M10x10	UNI 5923
131-1	Pin for shaft	Carbon Steel			
135-1	Washer (Tie rod)	Galvanized steel		17x30x3	UNI 6592
135-3	Washer (coupling)	Galvanized steel		10.5x17.5x2.2	UNI 1751
135-4	Washer (bearing)	Carbon Steel		06:04	UNI 1751
136	Locking washer (coupling)	Carbon Steel			
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
140	Coupling	Brass OT 58 UNI 5705			
140-1	Coupling (motor side)	Carbon Steel			
140-2	Coupling (pump side)	Carbon Steel			
150	Spacer	Carbon Steel			
160	Base	Cast iron EN-GJL-200-EN 1561			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
274-1	C-type snap ring (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	Ø26	UNI 7435
274-2	C-type snap ring (coupling)	Carbon Steel TC 80		Ø50	UNI 7435
274-3	C-type snap ring (bracket)	Carbon Steel TC 80		Ø110	UNI 7437
613	Flange	Carbon Steel			

QUANTITY FOR MODEL EVM(L)32

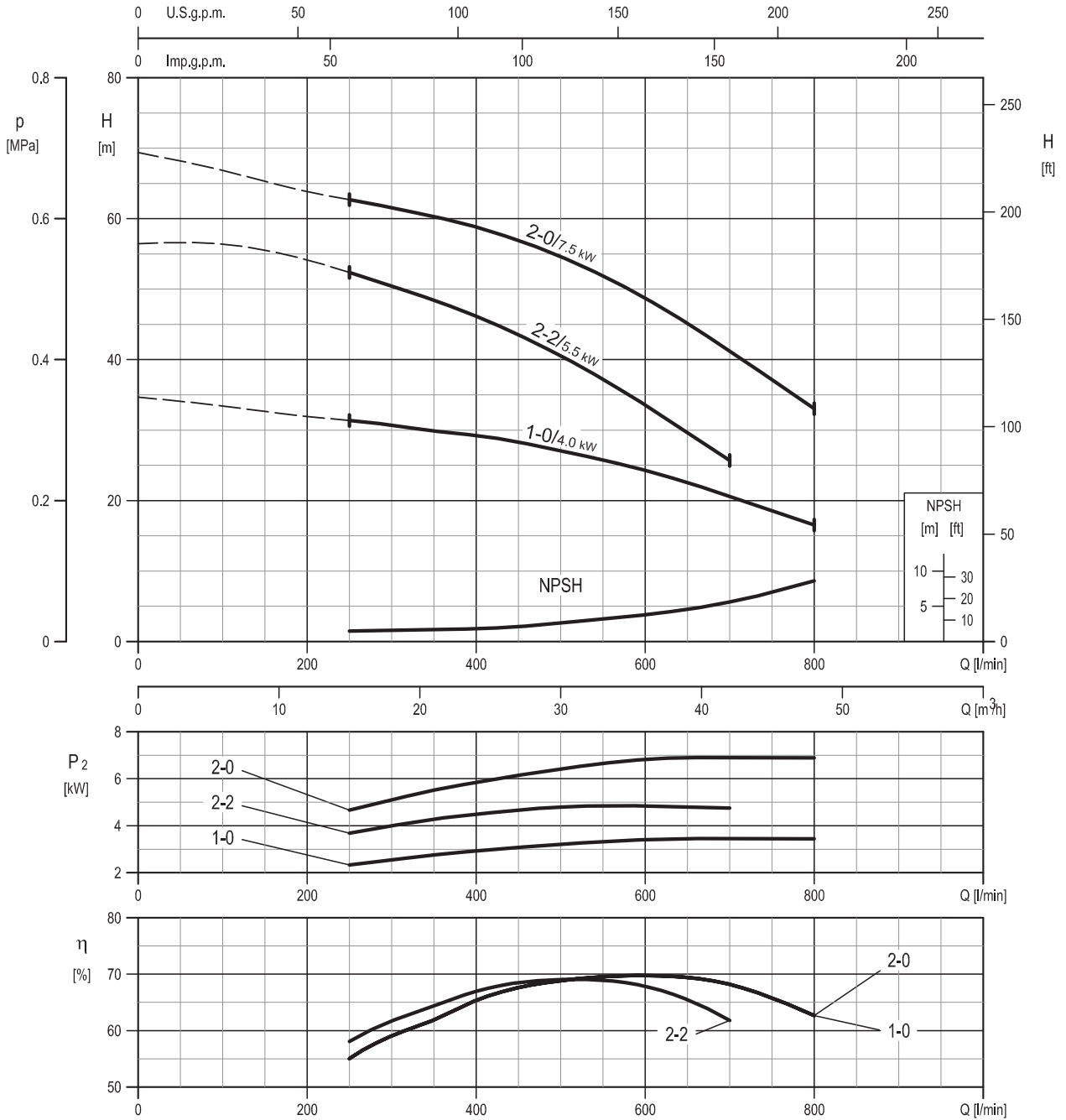
Pump Type	N°																															
	5-2	5-3	11	21	21-1	39-1	43-2	43-3	43-4	44-1	51	52-1	56	70-1	107	111-5	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3	
EVM(L)32 1-0F6/4.0	/	1	/	1	/	/	/	1	1	1	/	1	/	/	1	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/	
EVM(L)32 2-2F6/5.5	/	1	/	/	2	/	/	1	1	1	1	1	1	/	2	1	/	/	/	4	/	/	/	/	/	1	/	/	/	1	1	1
EVM(L)32 2-0F6/7.5	/	1	/	2	/	/	/	1	1	1	1	1	1	/	2	1	/	/	/	4	/	/	/	/	/	1	/	/	/	1	1	1
EVM(L)32 3-3F6/7.5	1	1	/	/	3	/	1	1	1	1	1	1	1	/	3	1	/	/	/	4	/	/	/	/	/	1	/	/	1	1	1	
EVM(L)32 3-0F6/11	1	1	1	3	/	1	1	1	1	1	1	1	1	3	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 4-3F6/11	2	1	1	1	3	1	2	1	1	1	1	1	1	4	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 4-0F6/15	2	1	1	4	/	1	2	1	1	1	1	1	1	4	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 5-3F6/15	3	1	1	2	3	1	3	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 5-2F6/15	3	1	1	3	2	1	3	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 5-0F6/18.5	3	1	1	5	/	1	3	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 6-3F6/18.5	4	1	1	3	3	1	4	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 6-0F6/22	4	1	1	6	/	1	4	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 7-3F6/22	5	1	1	4	3	1	5	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 7-2F6/22	5	1	1	5	2	1	5	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVM(L)32 7-0F6/30	5	1	1	7	/	1	5	1	1	1	1	1	1	7	1	4	4	3	4	4	1	4	3	1	/	1	1	1	1	1	/	
EVM(L)32 8-3F6/30	6	1	1	5	3	1	6	1	1	1	1	1	1	8	1	4	4	3	4	4	1	4	3	1	/	1	1	1	1	1	/	
EVM(L)32 8-0F6/30	6	1	1	8	/	1	6	1	1	1	1	1	1	8	/	4	4	3	4	4	1	4	3	1	/	1	1	1	1	1	/	
EVM(L)32 9-3F6/30	7	1	1	6	3	1	7	1	1	1	1	1	1	9	/	4	4	3	4	4	1	4	3	1	/	1	1	1	1	1	/	
EVM(L)32 9-0F6/30	7	1	1	9	/	1	7	1	1	1	1	1	1	9	/	4	4	3	4	4	1	4	3	1	/	1	1	1	1	1	/	
EVM(L)32 10-4F6/30	7	2	1	6	4	1	7	2	2	2	1	2	1	10	/	4	4	3	4	4	1	4	3	1	/	1	1	1	1	1	/	

BEARINGS EVM(L)32

Pump Type	N° 56
EVM(L)32 1-0F6/4.0	/
EVM(L)32 2-2F6/5.5	6310 ZZ C3
EVM(L)32 2-0F6/7.5	6310 ZZ C3
EVM(L)32 3-3F6/7.5	6310 ZZ C3
EVM(L)32 3-0F6/11	6313 ZZ C3
EVM(L)32 4-3F6/11	6313 ZZ C3
EVM(L)32 4-0F6/15	6313 ZZ C3
EVM(L)32 5-3F6/15	6313 ZZ C3
EVM(L)32 5-2F6/15	6313 ZZ C3
EVM(L)32 5-0F6/18.5	6313 ZZ C3
EVM(L)32 6-3F6/18.5	6313 ZZ C3
EVM(L)32 6-0F6/22	6315 ZZ C3
EVM(L)32 7-3F6/22	6315 ZZ C3
EVM(L)32 7-2F6/22	6315 ZZ C3
EVM(L)32 7-0F6/30	6315 ZZDT C3*
EVM(L)32 8-3F6/30	6315 ZZDT C3*
EVM(L)32 8-0F6/30	6315 ZZDT C3*
EVM(L)32 9-3F6/30	6315 ZZDT C3*
EVM(L)32 9-0F6/30	6315 ZZDT C3*
EVM(L)32 10-4F6/30	6315 ZZDT C3*

*DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

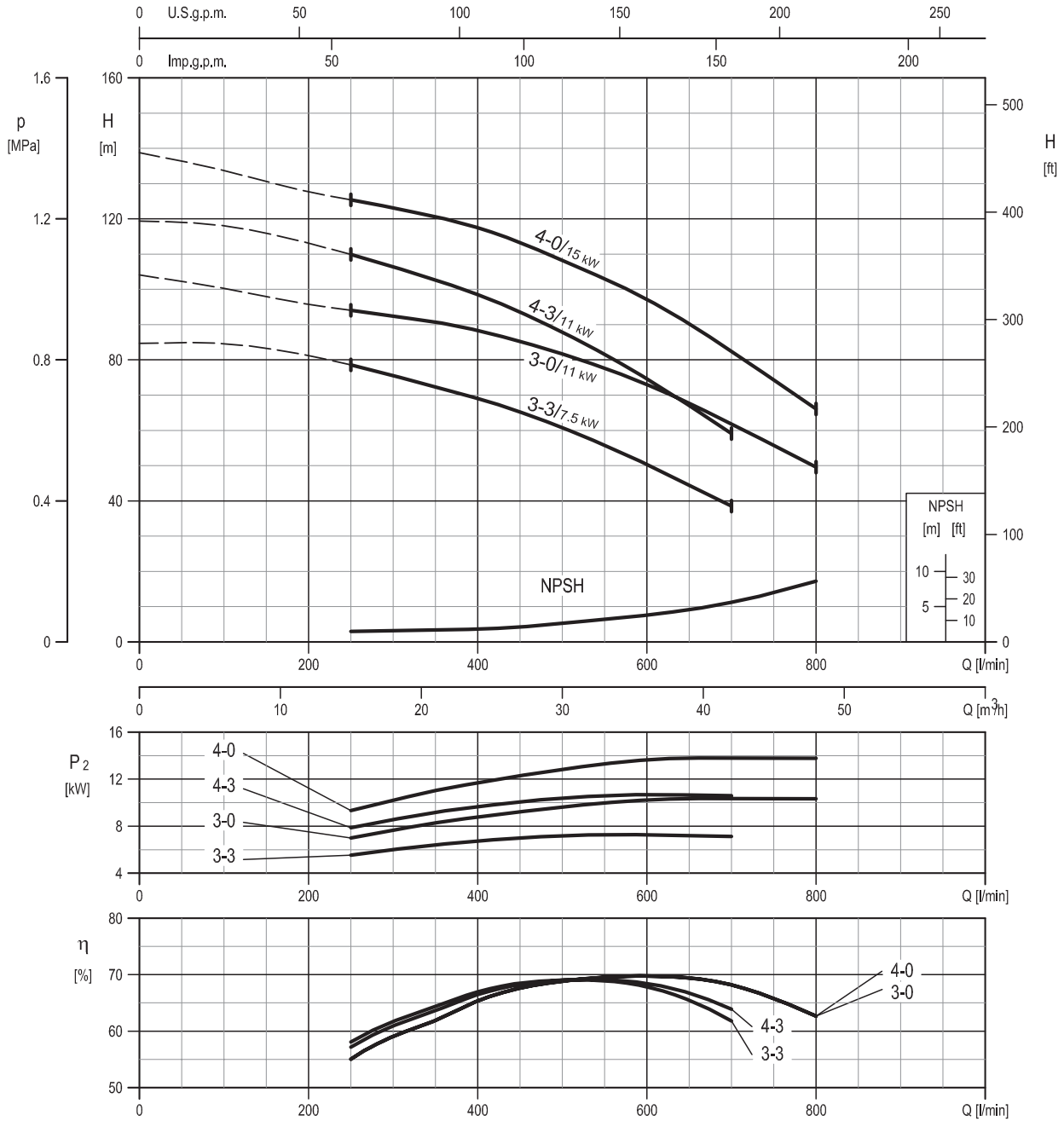
PERFORMANCE CURVE
EVMG32



Rotation speed ≈ 3480 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

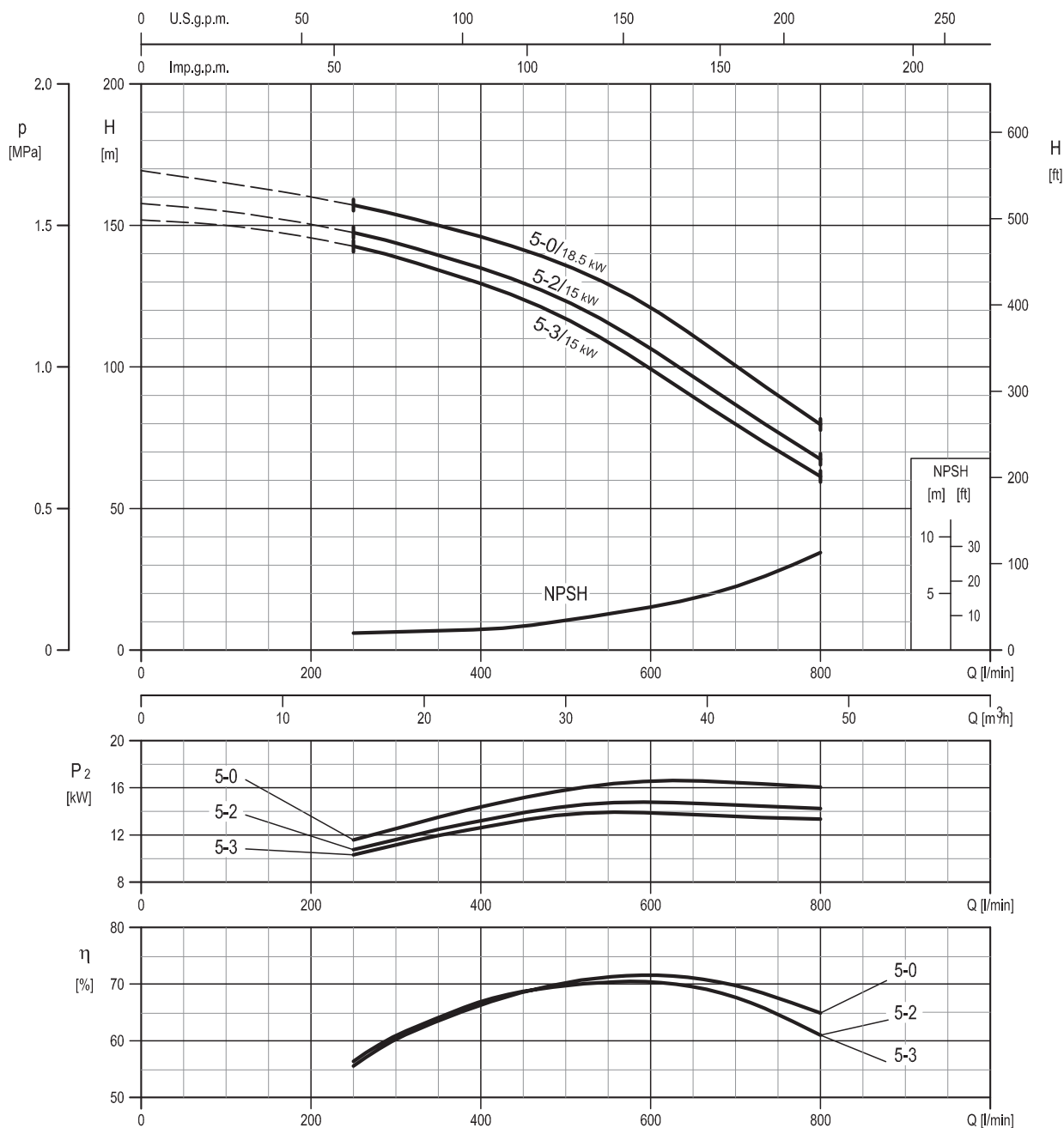
EVMG32

PERFORMANCE CURVE EVMG32



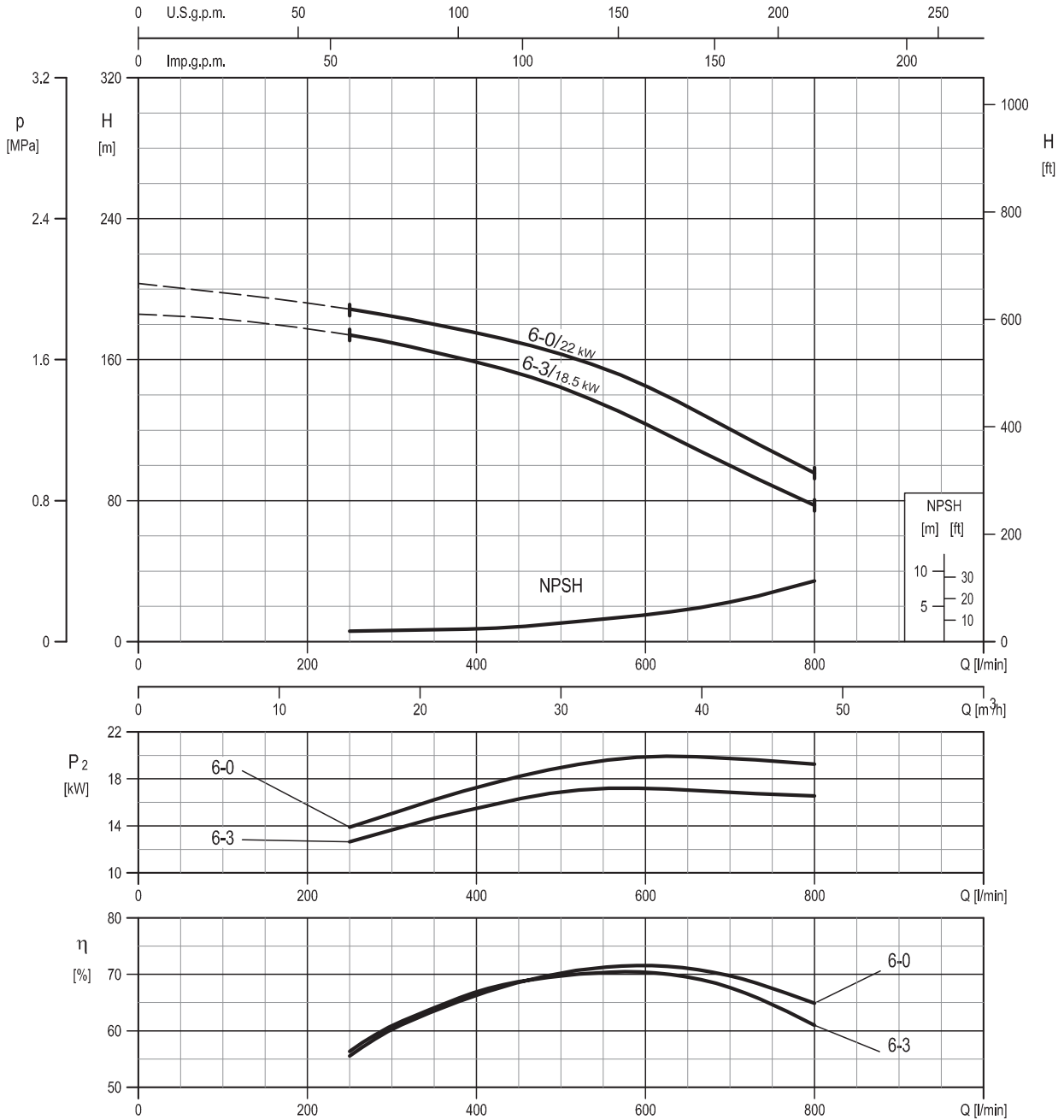
Rotation speed $\approx 3500 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVMG32



Rotation speed ≈ 3500 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

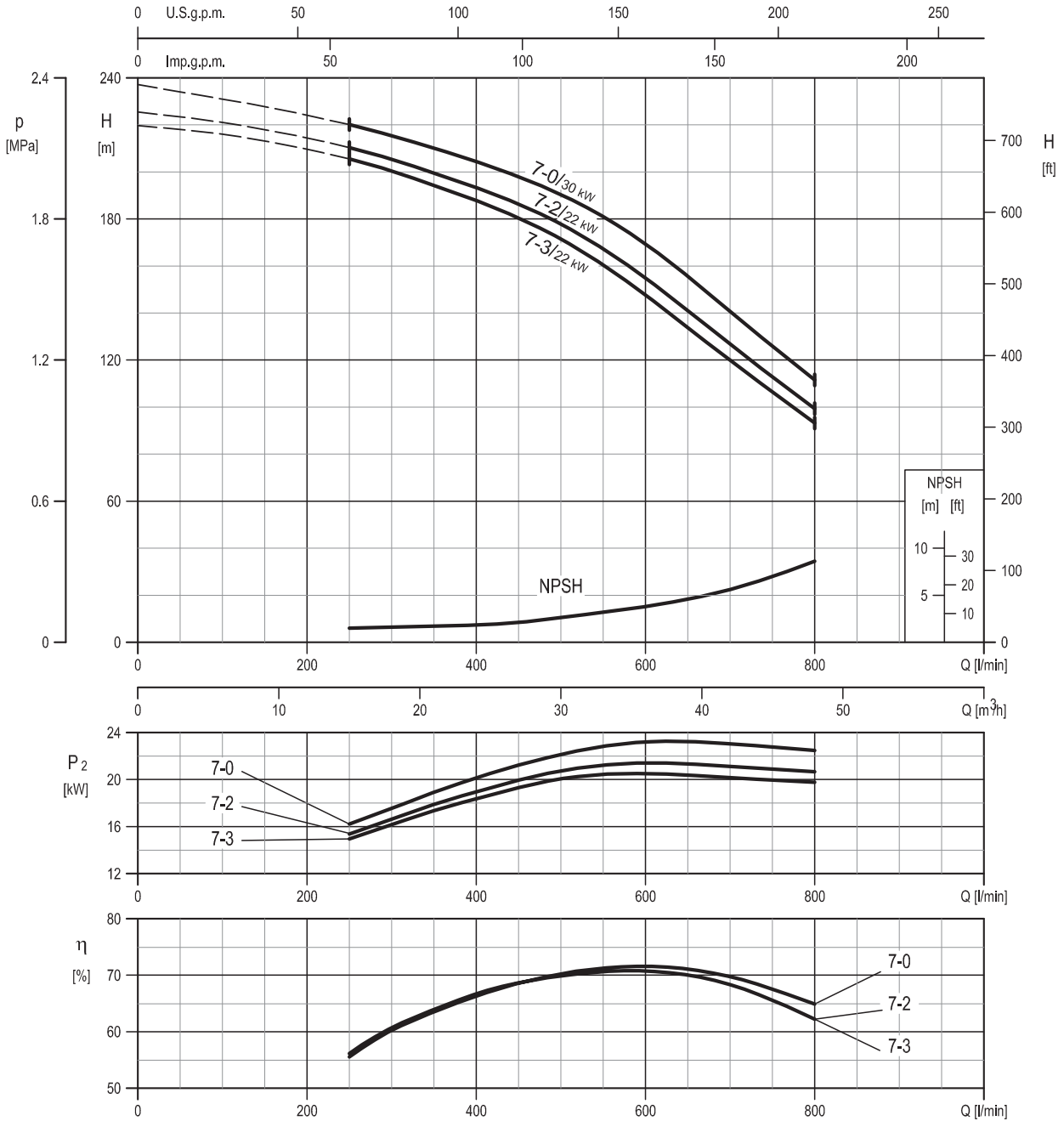
PERFORMANCE CURVE EVMG32



Rotation speed $\approx 3510 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

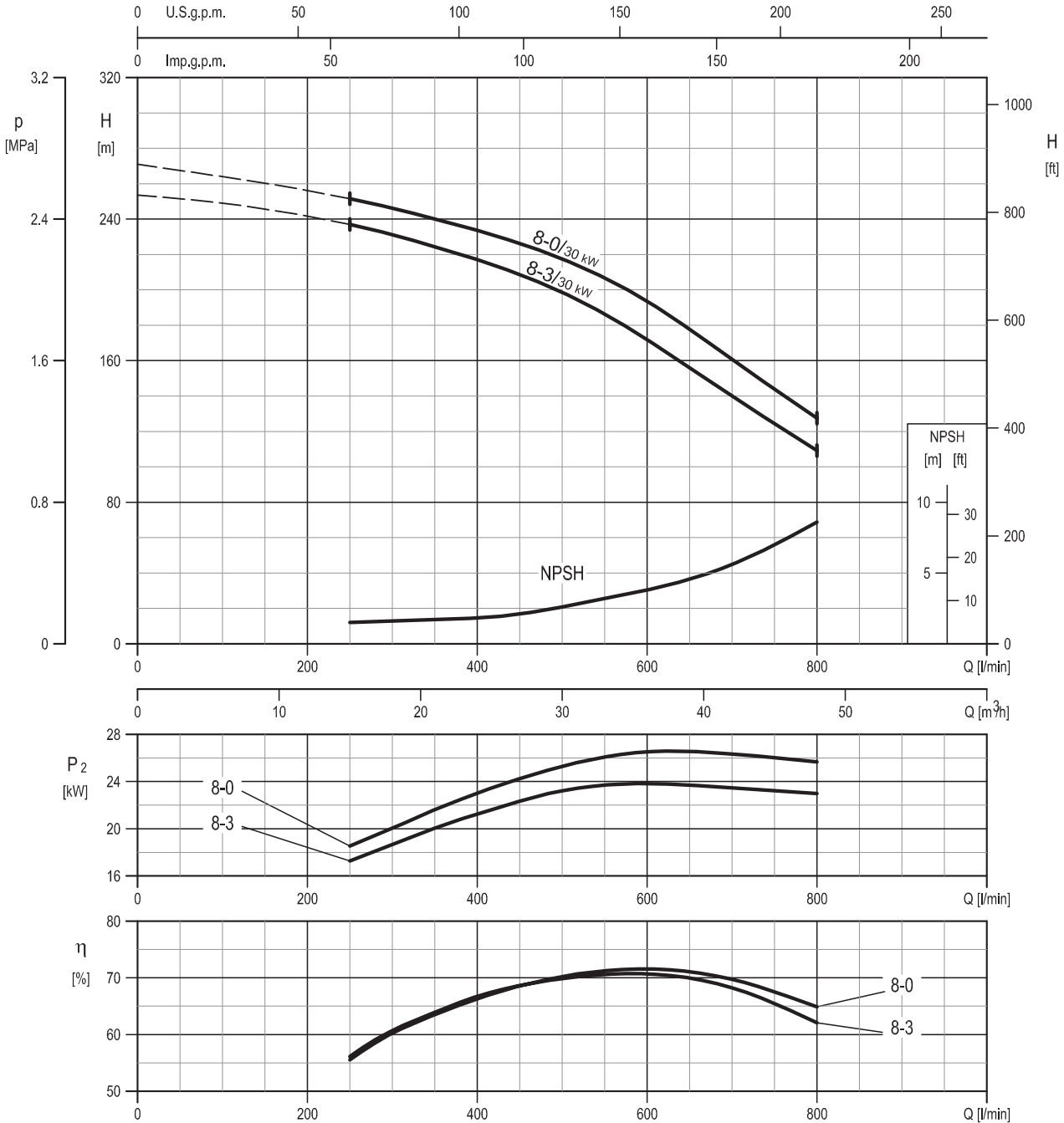
PERFORMANCE CURVE
EVMG32

EVMG32



Rotation speed $\approx 3520 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

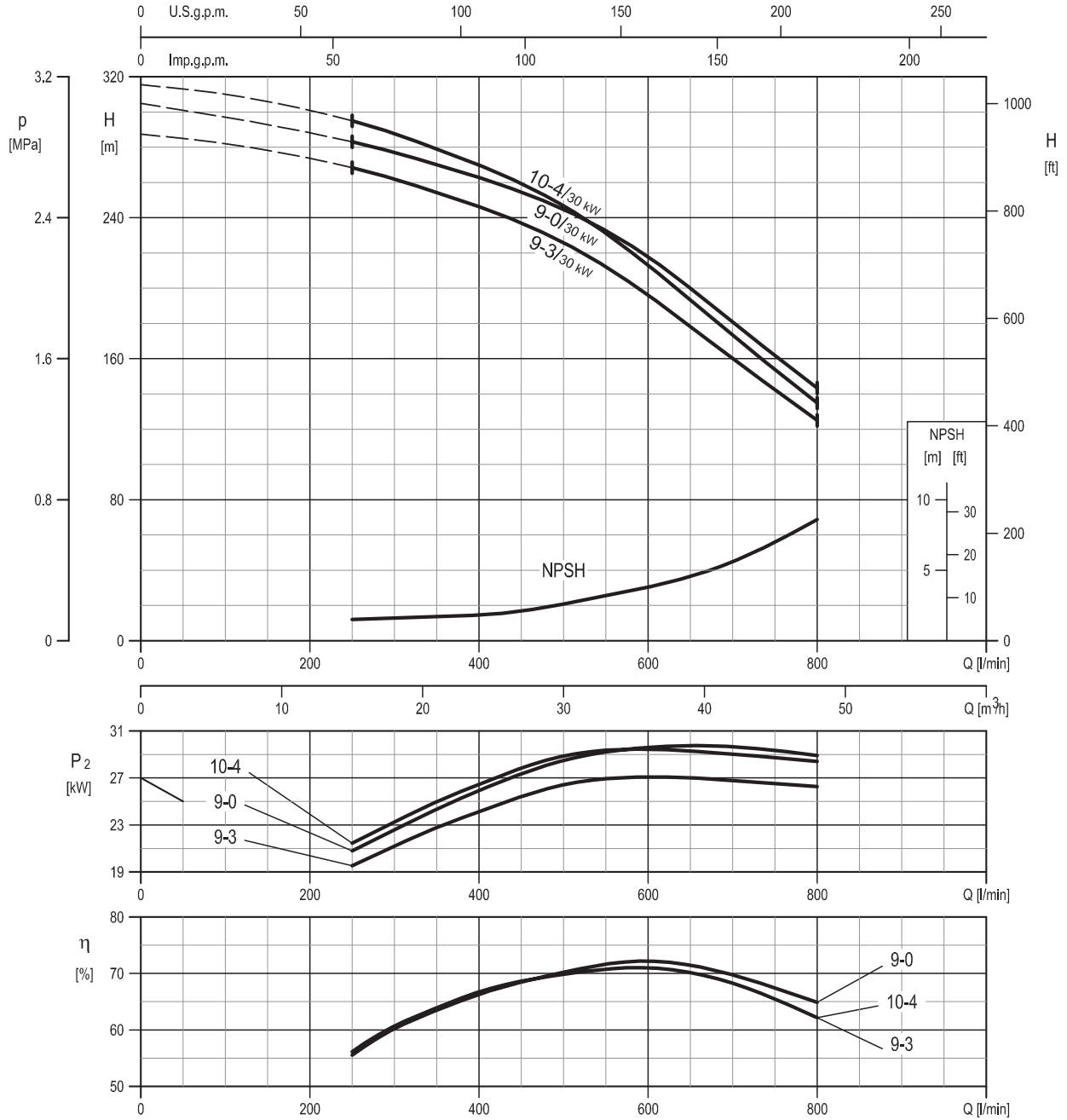
PERFORMANCE CURVE EVMG32



Rotation speed $\approx 3540 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVMG32

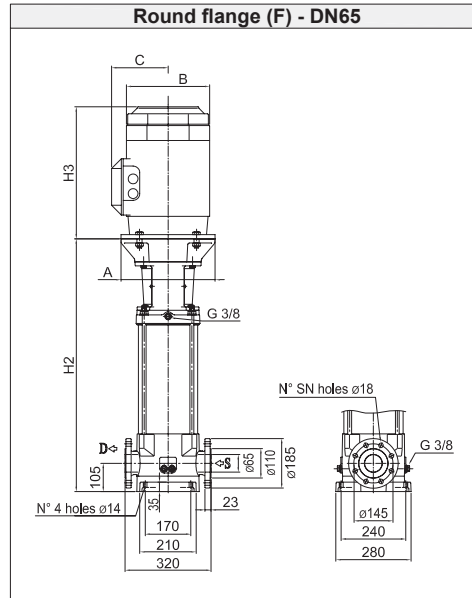
EVMG32



Rotation speed $\approx 3530 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMG32

Dimensional sketch



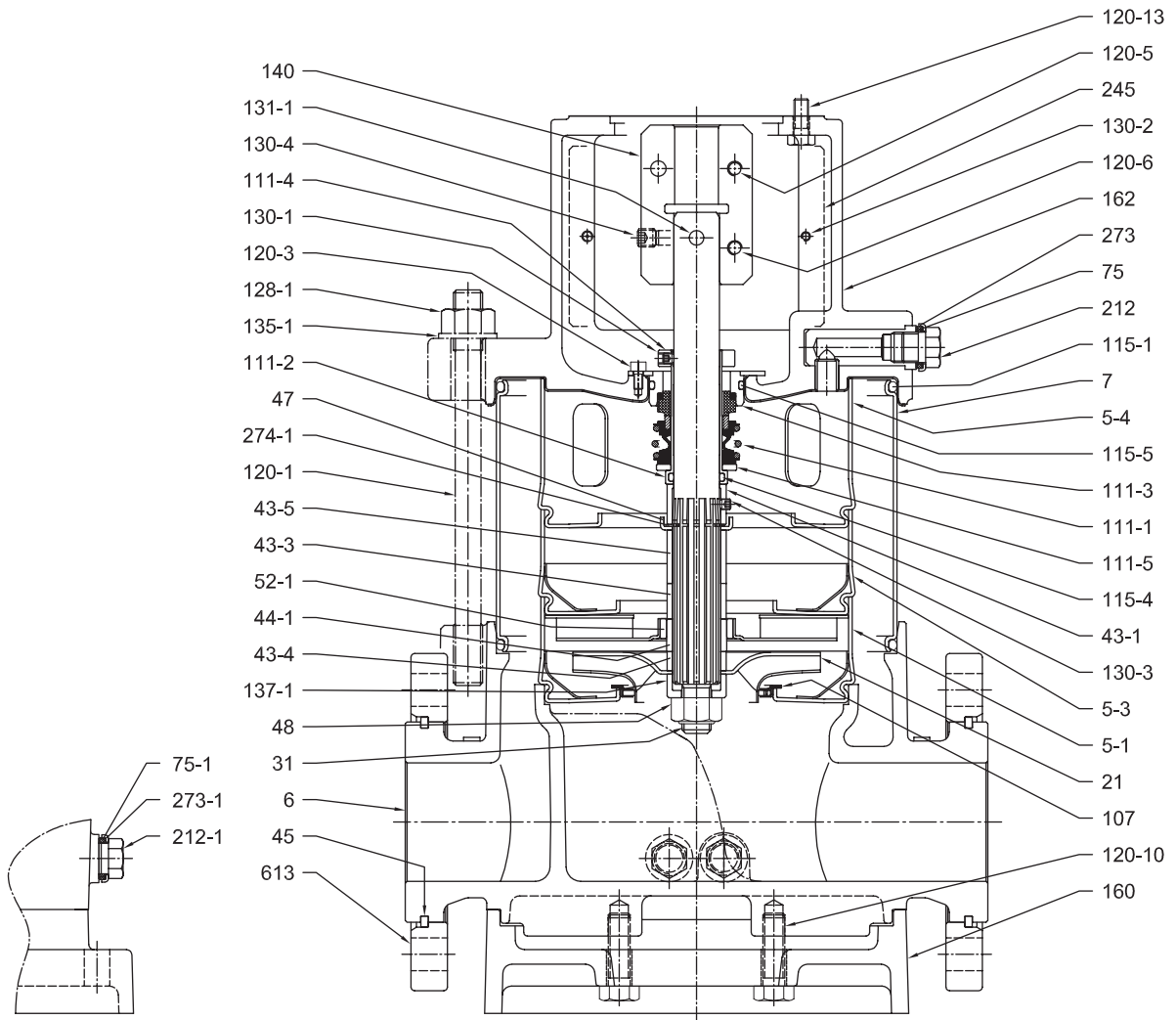
Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Round flange (F)			
		kW	Size	A	B	C	H3	H2	SN	Weight Pump	Weight Pump + Motor
EVMG32 1-0F6/4.0	1.6	4.0	112 M	∅160	196	155	306	503	4	56	82.5
EVMG32 2-2F6/5.5	1.6	5.5	132 S	∅300	225	160	328	524	4	58	96.6
EVMG32 2-0F6/7.5	1.6	7.5	132 S	∅300	225	160	350	524	4	58	98.4
EVMG32 3-3F6/7.5	1.6	7.5	132 S	∅300	225	160	350	572	4	74	114.4
EVMG32 3-0F6/11	1.6	11	160 M	∅350	248	194	476	703	4	74	136.5
EVMG32 4-3F6/11	1.6	11	160 M	∅350	248	194	476	751	4	77	139.5
EVMG32 4-0F6/15	1.6	15	160 M	∅350	317	238	498	751	4	77	165.9
EVMG32 5-3F6/15	1.6	15	160 M	∅350	317	238	498	799	4	96	184.9
EVMG32 5-2F6/15	1.6	15	160 M	∅350	317	238	498	799	4	96	184.9
EVMG32 5-0F6/18.5	1.6	18.5	160 L	∅350	317	238	542	799	4	96	200
EVMG32 6-3F6/18.5	2.5	18.5	160 L	∅350	317	238	542	847	8	99	203
EVMG32 6-0F6/22	2.5	22	180 M	∅350	360	268	577	847	8	99	262
EVMG32 7-3F6/22	2.5	22	180 M	∅350	360	268	577	895	8	102	265
EVMG32 7-2F6/22	2.5	22	180 M	∅350	360	268	577	895	8	102	265
EVMG32 7-0F6/30	2.5	30	200 L	∅400	399	300	658	910	8	105	333
EVMG32 8-3F6/30	2.5	30	200 L	∅400	399	300	658	958	8	105	333
EVMG32 8-0F6/30	3.0	30	200 L	∅400	399	300	658	958	8	105	333
EVMG32 9-3F6/30	3.0	30	200 L	∅400	399	300	658	1006	8	108	336
EVMG32 9-0F6/30	3.0	30	200 L	∅400	399	300	658	1006	8	108	336
EVMG32 10-4F6/30	3.0	30	200 L	∅400	399	300	658	1054	8	108	336

1.6 MPa=16 bar ; 2.5 MPa=25 bar; 3.0 MPa = 30 bar

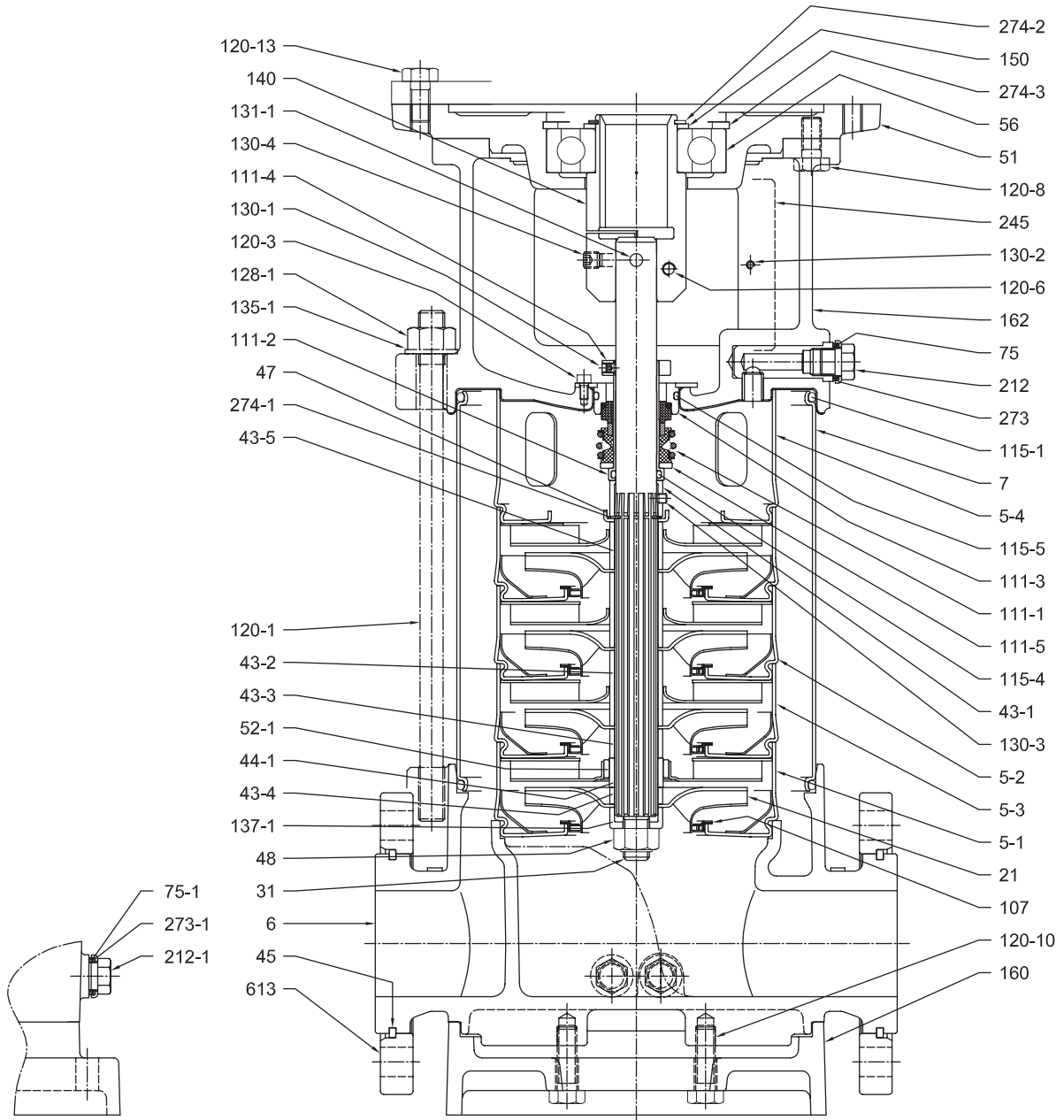
SECTIONAL VIEW
EVMG32

EVMG32



Pump without ball bearing

SECTIONAL VIEW EVMG32

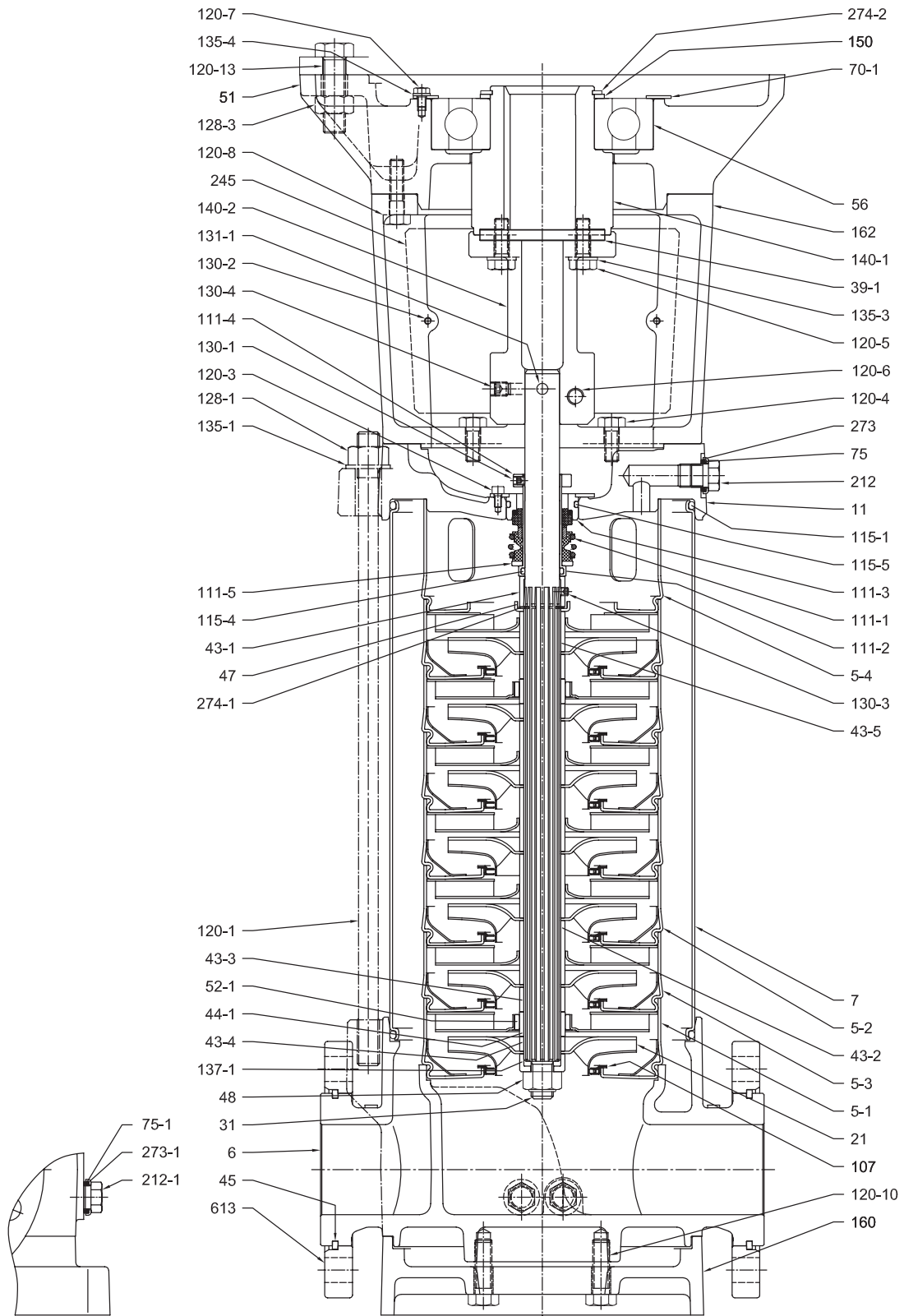


Pump with single ball bearing

EVMG32

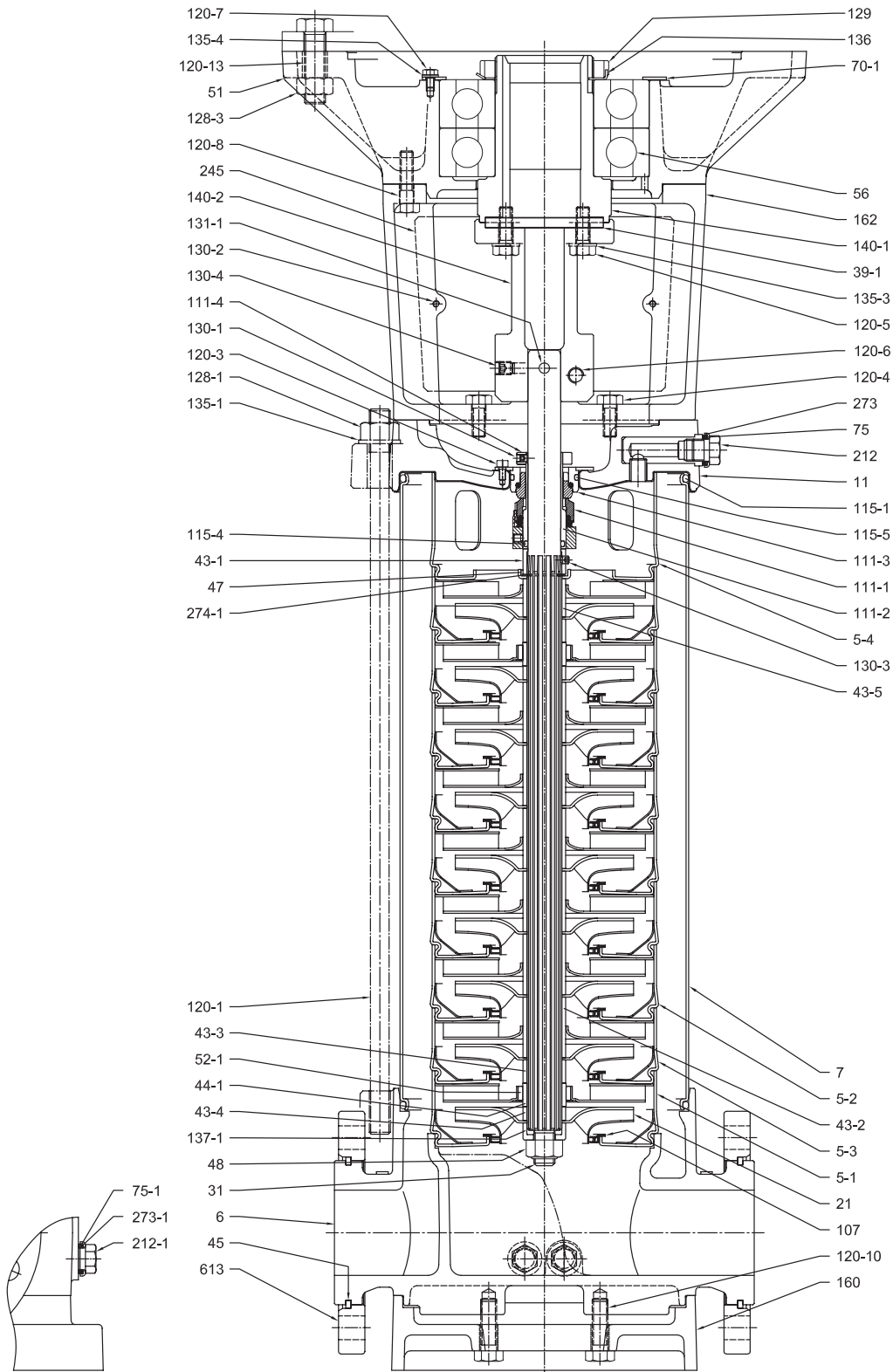
SECTIONAL VIEW
EVMG32

EVMG32



Pump with single ball bearing

SECTIONAL VIEW EVMG32



Pump with double ball bearingm

EVMG32

SECTIONAL TABLE
EVMG32

N°	PART NAME	MATERIAL EVMG	DIMENSIONS	STANDARD
5-1	Suction casing	EN 1.4301 (AISI 304)		
5-2	Intermediate Casing	EN 1.4301 (AISI 304)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)		
5-4	Discharge casing	EN 1.4301 (AISI 304)		
6	Bottom casing	Cast Iron EN GJL-250 -EN1561		
7	Outer casing	EN 1.4301 (AISI 304)		
11	Casing cover	Cast Iron EN GJL-250 -EN1561		
21	Impeller	EN 1.4301 (AISI 304)		
21-1	Reduced impeller			
31	Shaft	EN 1.4404 (AISI 316L)		
39-1	Key	Carbon Steel	12x8x90	UNI 6604
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		
44-1	Shaft sleeve bearing	Tungsten carbide		
45	Flange holder	EN 1.402 (AISI 420)		
47	Ring Holder	EN 1.4301 (AISI 304)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M16	
51	Motor adapter	Cast iron EN-GJL-200-EN 1561		
52-1	Bearing	Tungsten carbide		
56	Ball bearing	see table page 337		
70-1	Ring for bearing	EN 1.4301 (AISI 304)		
75	O-Ring (plug)	EPDM		
75-1	O-Ring (plug)	EPDM		
107	Liner ring	PTFE / EN 1.4301 (AISI 304)		
111-1	Mechanical Seal	Silicon carbide / Carbon / FPM		
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		
111-4	Seal holder	Brass OT 58 UNI 5705		
111-5	Adjusting ring	EN 1.4301 (AISI 304)		
115-1	O-Ring (outer casing)	EPDM	Ø208.91x5.34	
115-4	O-Ring (cartridge sleeve)	EPDM	Ø24.99x3.59	
115-5	O-Ring (seal cover)	EPDM	Ø44.04x3.53	
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		

SECTIONAL TABLE EVMG32

N°	PART NAME	MATERIAL EVMG	DIMENSIONS	STANDARD
120-3	Screw (mechanical seal)	A2-70 UNI 7323	M5x10	UNI 5931
120-4	Screw (casing cover)	Galvanized steel 8.8 strenght class ISO 898/1	M10x25	UNI 5739
120-5	Screw for coupling	EVM32 1	M6x16	UNI 5931
		EVM32 3 to 10	M8x20	UNI 5931
120-6	Screw for coupling	EVM32 1 to 3-3	M6x16	UNI 5931
		EVM32 3-0 to 10-3	M8x20	UNI 5931
120-7	Screw (bearing)	Galvanized steel 8.8 strenght class ISO 898/1	M6x10	UNI 5739
120-8	Screw (bearing housing)	EVM32 3-0 to 10-3	M12x25	UNI 5739
		EVM32 2-0 to 3-3	M10x30	UNI 5739
120-10	Screw (base plate)	Galvanized steel 8.8 strenght class ISO 898/1	M12x40	UNI 5739
120-13	Screw for motor	EVM32 1	M8x20	UNI 5739
		EVM32 2-0 to 3-3	M12x30	UNI 5739
		EVM32 3-0 to 10-3	M16x65	UNI 5739
128-1	Nut for tie rod	Galvanized steel	M16	UNI 5588
128-3	Nut (motor)	Galvanized steel	M16	UNI 5588
129	Lock nut	Carbon Steel		
130-1	Set screw	A2-70 UNI 7323	M6x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687
130-3	Set screw (mechanical seal)	A2-70 UNI 7323	M6x6	UNI 5923
130-4	Set screw (coupling pin)	Carbon Steel	M10x10	UNI 5923
131-1	Pin for shaft	Carbon Steel		
135-1	Washer (Tie rod)	Galvanized steel	17x30x3	UNI 6592
135-3	Washer (coupling)	Galvanized steel	10.5x17.5x2.2	UNI 1751
135-4	Washer (bearing)	Carbon Steel	06:04	UNI 1751
136	Locking washer (coupling)	Carbon Steel		
137-1	Impeller spacer	EN 1.4301 (AISI 304)		
140	Coupling	Brass OT 58 UNI 5705		
140-1	Coupling (motor side)	Carbon Steel		
140-2	Coupling (pump side)	Carbon Steel		
150	Spacer	Carbon Steel		
160	Base	Cast iron EN-GJL-200-EN 1561		
162	Motor bracket	Cast iron EN-GJL-200-EN 1561		
212	Plug	EN 1.4301 (AISI 304)		
212-1	Plug	EN 1.4301 (AISI 304)		
245	Coupling guard	EN 1.4301 (AISI 304)		
273	Plug Washer	EN 1.4301 (AISI 304)		
273-1	Plug Washer	EN 1.4301 (AISI 304)		
274-1	C-type snap ring (mechanical seal)	EN 1.4301 (AISI 304)	Ø26	UNI 7435
274-2	C-type snap ring (coupling)	Carbon Steel TC 80	Ø50	UNI 7435
	C-type snap ring (bracket)		Ø65	UNI 7435
	Flange		Ø75	UNI 7535
274-3	C-type snap ring (bracket)	Carbon Steel TC 80	Ø110	UNI 7437
613	Flange	Carbon Steel		

QUANTITY FOR MODEL EVMG32

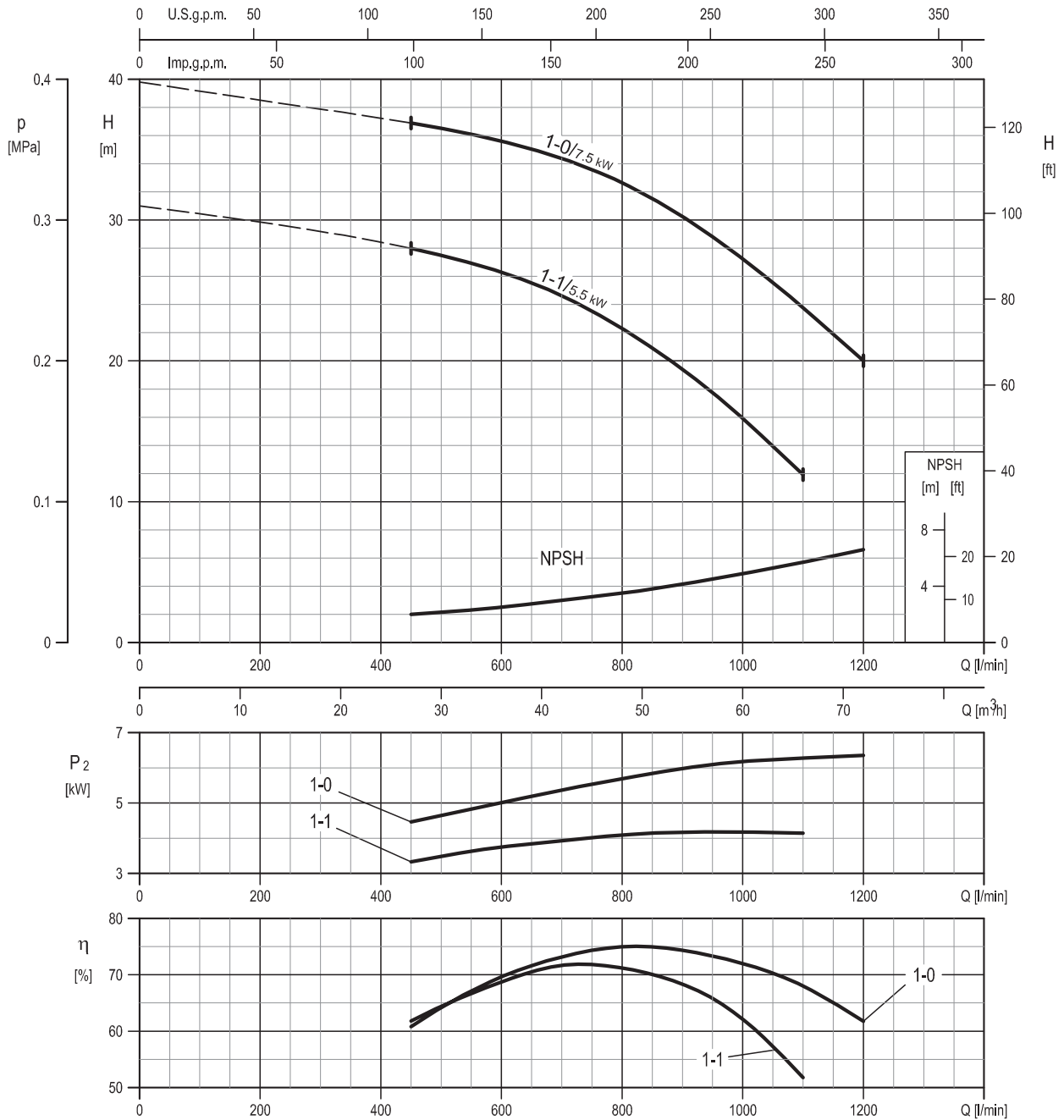
Pump Type	N°																																
	5-2	5-3	11	21	21-1	39-1	43-2	43-3	43-4	44-1	51	52-1	56	70-1	107	111-5	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3		
EVMG32 1-0F6/4.0	/	1	/	1	/	/	/	1	1	1	/	1	/	/	1	1	/	2	/	/	/	/	/	/	/	1	/	/	/	/	/		
EVMG32 2-2F6/5.5	/	1	/	/	2	/	/	1	1	1	1	1	1	/	2	1	/	/	/	4	/	/	/	/	/	/	1	/	/	/	1	1	1
EVMG32 2-0F6/7.5	/	1	/	2	/	/	/	1	1	1	1	1	1	/	2	1	/	/	/	4	/	/	/	/	/	1	/	/	/	1	1	1	
EVMG32 3-3F6/7.5	1	1	/	/	3	/	1	1	1	1	1	1	1	/	3	1	/	/	/	4	/	/	/	/	/	1	/	/	/	1	1	1	
EVMG32 3-0F6/11	1	1	1	3	/	1	1	1	1	1	1	1	1	1	3	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 4-3F6/11	2	1	1	1	3	1	2	1	1	1	1	1	1	1	4	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 4-0F6/15	2	1	1	4	/	1	2	1	1	1	1	1	1	1	4	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 5-3F6/15	3	1	1	2	3	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 5-2F6/15	3	1	1	3	2	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 5-0F6/18.5	3	1	1	5	/	1	3	1	1	1	1	1	1	1	5	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 6-3F6/18.5	4	1	1	3	3	1	4	1	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 6-0F6/22	4	1	1	6	/	1	4	1	1	1	1	1	1	1	6	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 7-3F6/22	5	1	1	4	3	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 7-2F6/22	5	1	1	5	2	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	/	4	3	/	/	1	1	1	1	1	/	
EVMG32 7-0F6/30	5	1	1	7	/	1	5	1	1	1	1	1	1	1	7	1	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	/	
EVMG32 8-3F6/30	6	1	1	5	3	1	6	1	1	1	1	1	1	1	8	1	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	/	
EVMG32 8-0F6/30	6	1	1	8	/	1	6	1	1	1	1	1	1	1	8	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	/	
EVMG32 9-3F6/30	7	1	1	6	3	1	7	1	1	1	1	1	1	1	9	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	/	
EVMG32 9-0F6/30	7	1	1	9	/	1	7	1	1	1	1	1	1	1	9	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	/	
EVMG32 10-4F6/30	7	2	1	6	4	1	7	2	2	2	1	2	1	1	10	/	4	4	3	4	4	1	4	3	1	/	1	1	/	/	/	/	

BEARINGS EVMG32

Pump Type	N° 56
EVMG32 1-0F6/4.0	/
EVMG32 2-2F6/5.5	6310 ZZ C3
EVMG32 2-0F6/7.5	6310 ZZ C3
EVMG32 3-3F6/7.5	6310 ZZ C3
EVMG32 3-0F6/11	6313 ZZ C3
EVMG32 4-3F6/11	6313 ZZ C3
EVMG32 4-0F6/15	6313 ZZ C3
EVMG32 5-3F6/15	6313 ZZ C3
EVMG32 5-2F6/15	6313 ZZ C3
EVMG32 5-0F6/18.5	6313 ZZ C3
EVMG32 6-3F6/18.5	6313 ZZ C3
EVMG32 6-0F6/22	6315 ZZ C3
EVMG32 7-3F6/22	6315 ZZ C3
EVMG32 7-2F6/22	6315 ZZ C3
EVMG32 7-0F6/30	6315 ZZDT C3*
EVMG32 8-3F6/30	6315 ZZDT C3*
EVMG32 8-0F6/30	6315 ZZDT C3*
EVMG32 9-3F6/30	6315 ZZDT C3*
EVMG32 9-0F6/30	6315 ZZDT C3*
EVMG32 10-4F6/30	6315 ZZDT C3*

*DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

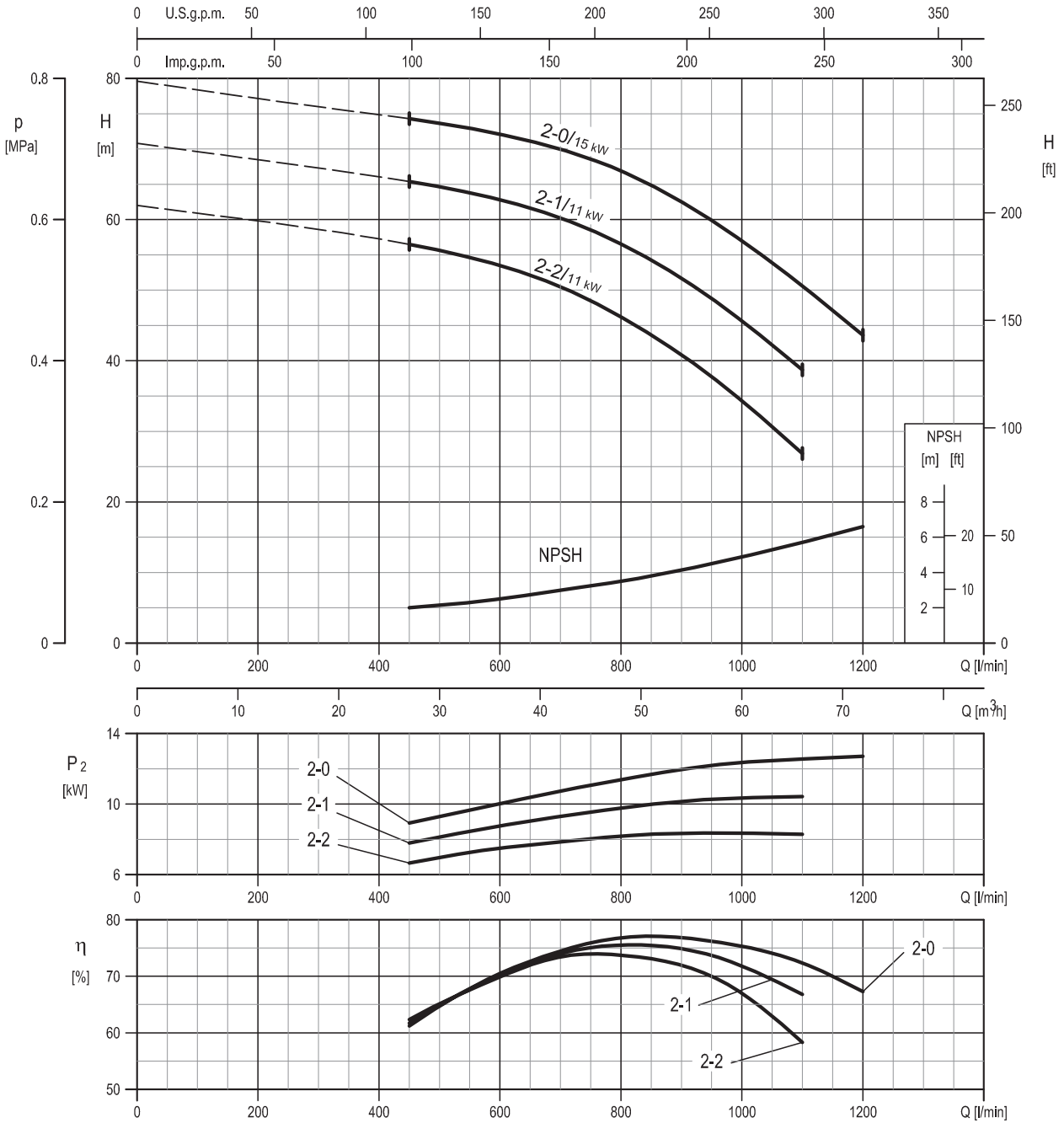
PERFORMANCE CURVE EVM(L)45



Rotation speed $\approx 3505 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

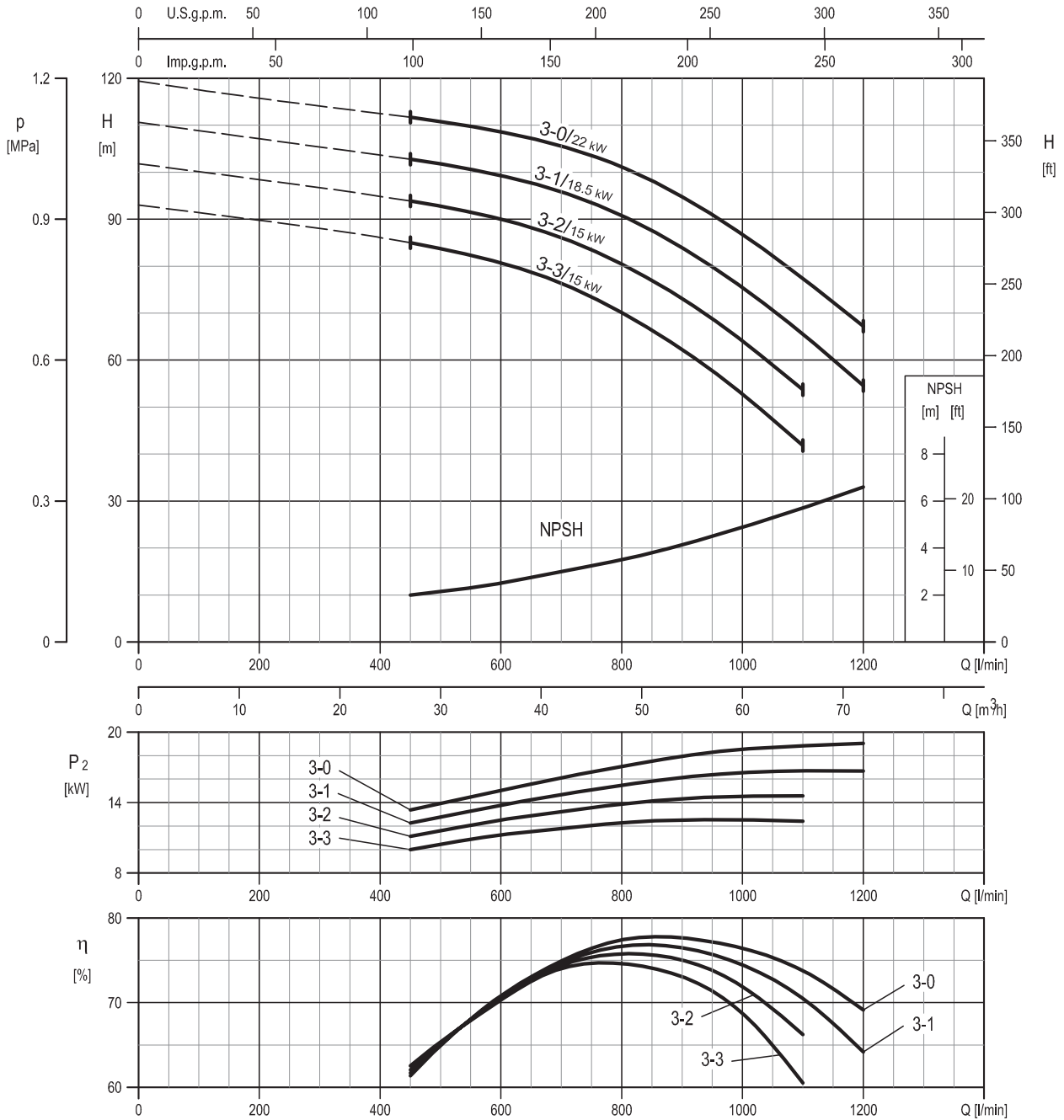
PERFORMANCE CURVE
EVM(L)45

EVM(L)45



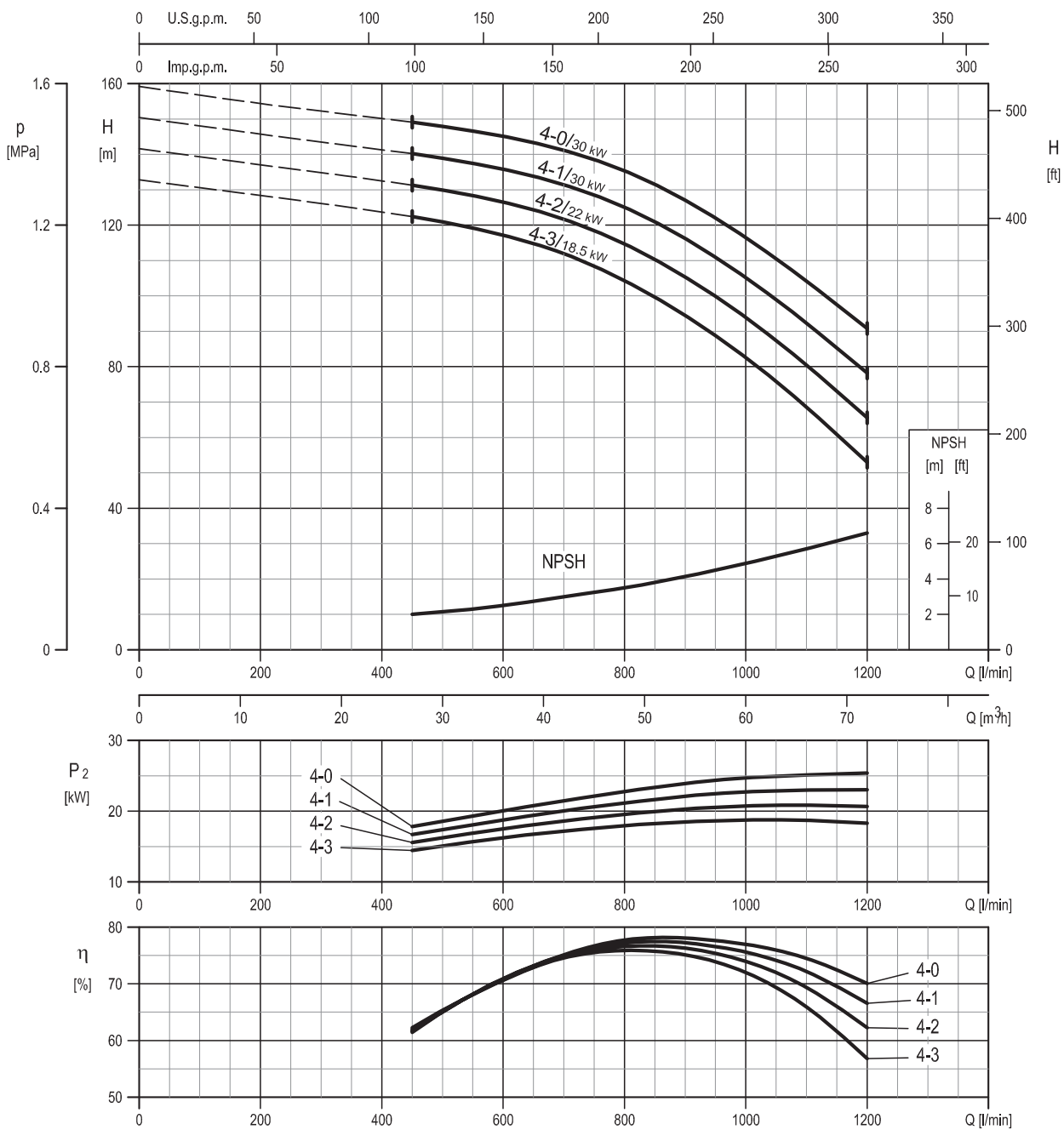
Rotation speed ≈3520 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE EVM(L)45



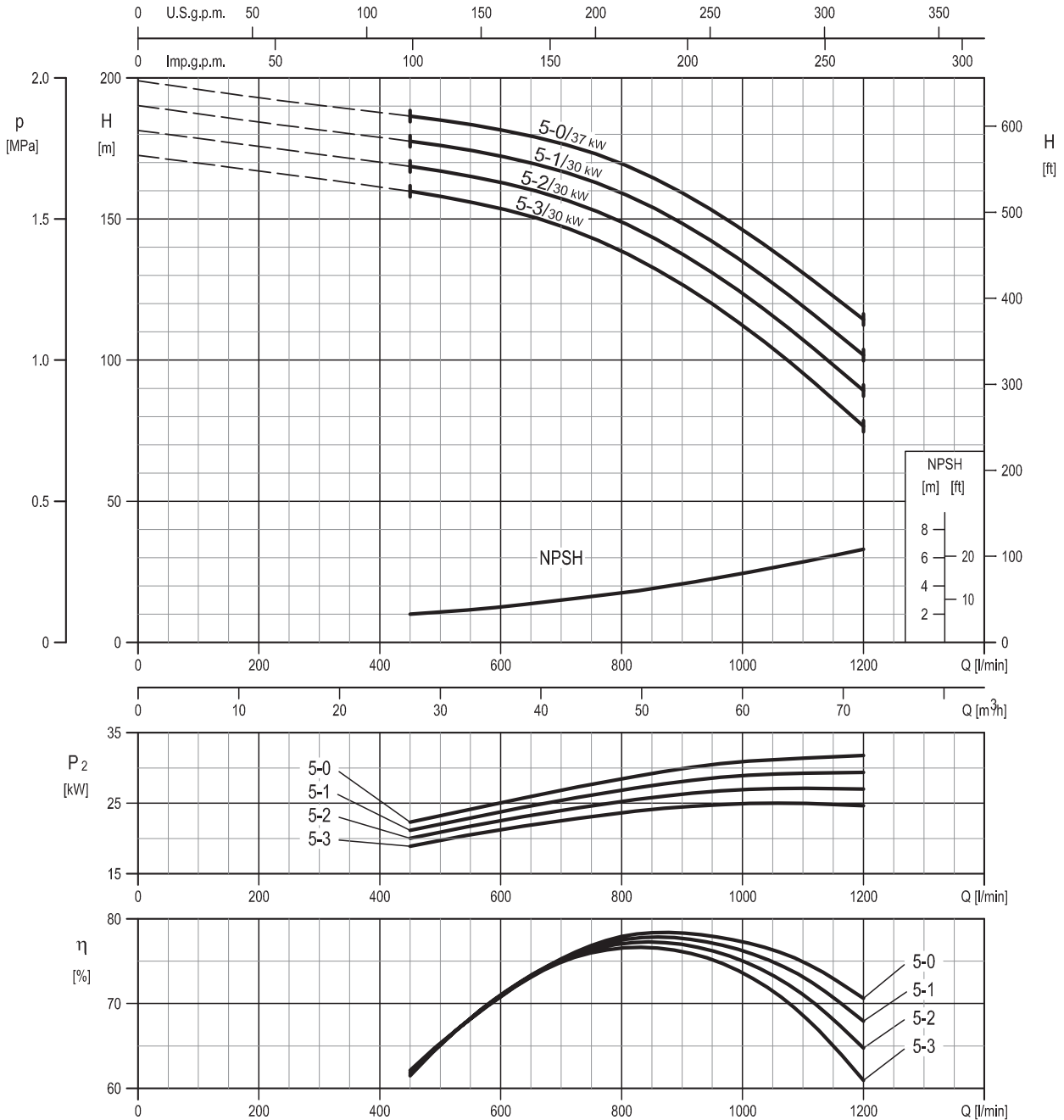
Rotation speed $\approx 3520 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVM(L)45



Rotation speed ≈ 3530 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

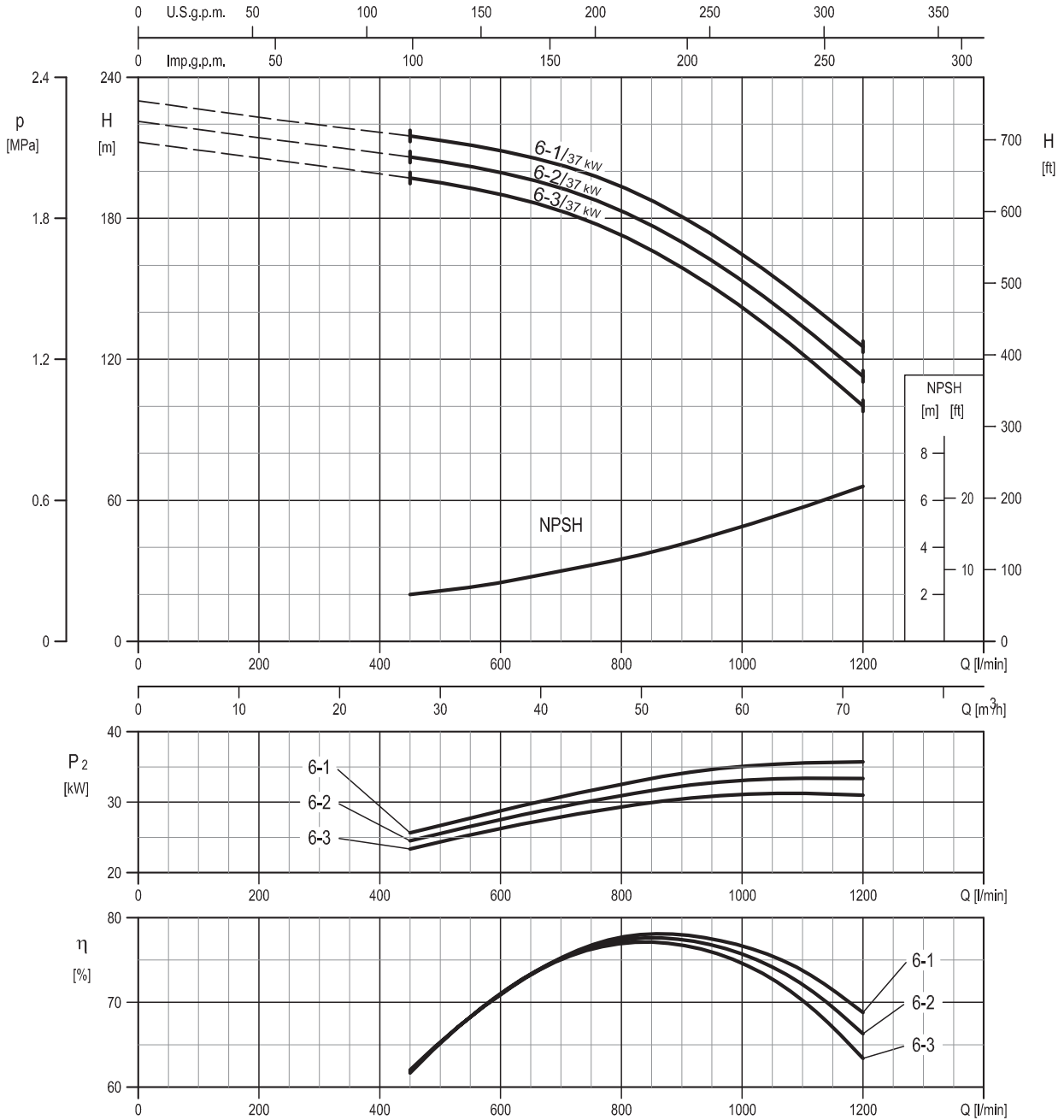
PERFORMANCE CURVE EVM(L)45



Rotation speed $\approx 3540 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVM(L)45

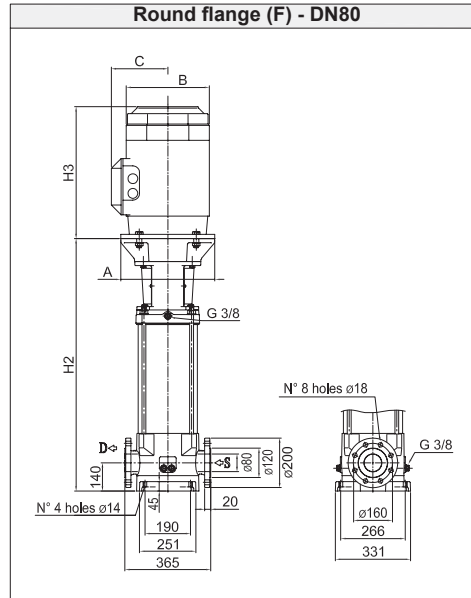
EVM(L)45



Rotation speed ≈ 3530 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVM(L)45

Dimensional sketch



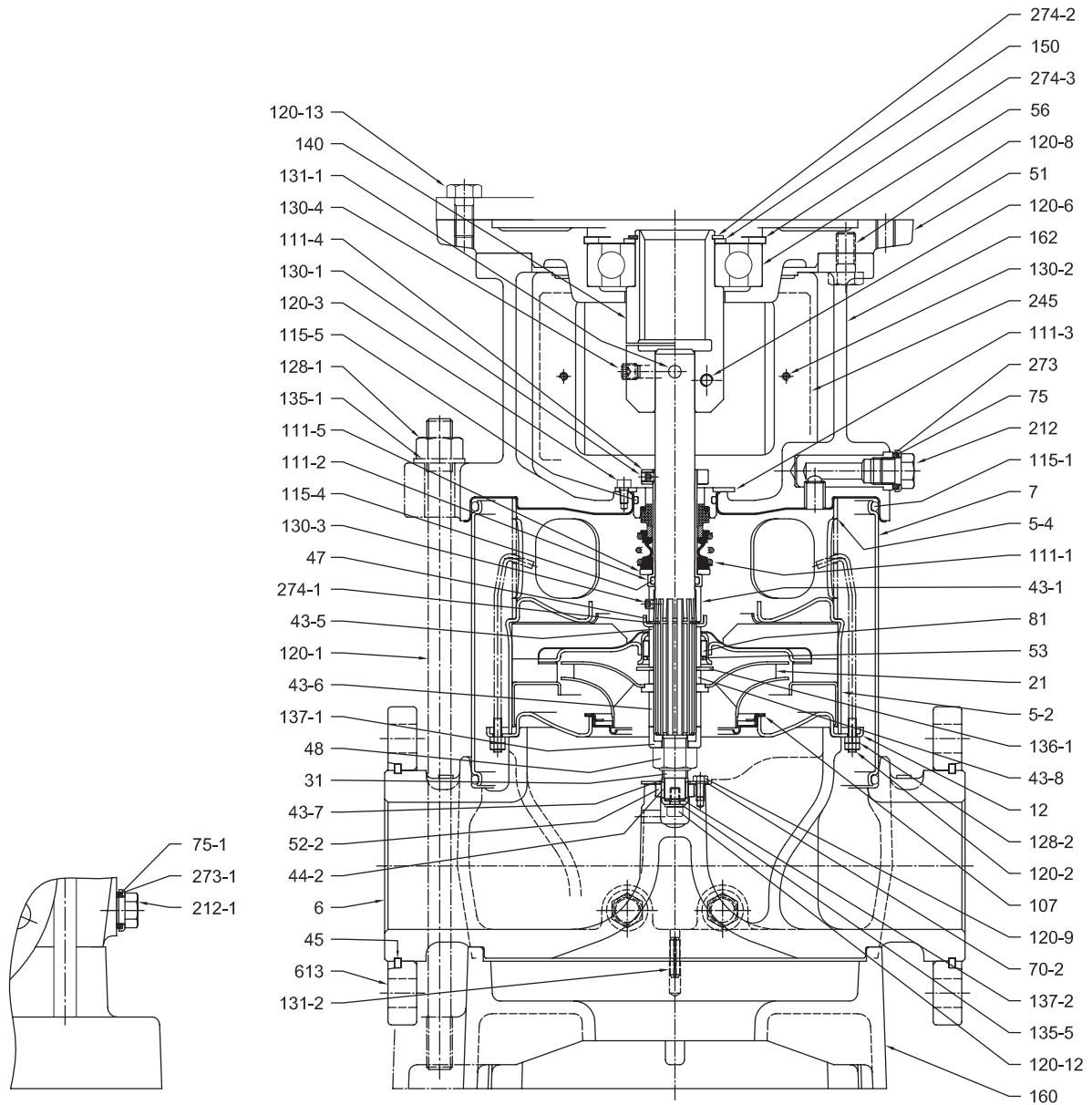
Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Round flange (F)		
		kW	Size	A	B	C	H3	H2	Weight Pump	Weight Pump + Motor
EVM(L)45 1-1F6/5.5	1.6	5.5	132 S	300	225	160	328	546	56	94.6
EVM(L)45 1-0F6/7.5	1.6	7.5	132 S	300	225	160	350	546	56	96.4
EVM(L)45 2-2F6/11	1.6	11	160 M	350	248	194	476	749	58	120.5
EVM(L)45 2-1F6/11	1.6	11	160 M	350	248	194	476	749	58	120.5
EVM(L)45 2-0F6/15	1.6	15	160 M	350	317	238	498	749	58	146.9
EVM(L)45 3-3F6/15	1.6	15	160 M	350	317	238	498	822	74	162.9
EVM(L)45 3-2F6/15	1.6	15	160 M	350	317	238	498	822	74	162.9
EVM(L)45 3-1F6/18.5	1.6	18.5	160 L	350	317	238	542	822	74	178
EVM(L)45 3-0F6/22	1.6	22	180 M	350	360	268	577	822	74	237
EVM(L)45 4-3F6/18.5	1.6	18.5	160 L	350	317	238	542	894	77	181
EVM(L)45 4-2F6/22	1.6	22	180 M	350	360	268	577	894	77	240
EVM(L)45 4-1F6/30	1.6	30	200 L	400	399	300	658	909	77	305
EVM(L)45 4-0F6/30	1.6	30	200 L	400	399	300	658	909	77	305
EVM(L)45 5-3F6/30	2.5	30	200 L	400	399	300	658	981	96	324
EVM(L)45 5-2F6/30	2.5	30	200 L	400	399	300	658	981	96	324
EVM(L)45 5-1F6/30	2.5	30	200 L	400	399	300	658	981	96	324
EVM(L)45 5-0F6/37	2.5	37	200 L	400	399	300	658	981	96	338
EVM(L)45 6-3F6/37	2.5	37	200 L	400	399	300	658	1053	99	341
EVM(L)45 6-2F6/37	2.5	37	200 L	400	399	300	658	1053	99	341
EVM(L)45 6-1F6/37	2.5	37	200 L	400	399	300	658	1053	99	341

1.6 MPa=16 bar ; 2.5 MPa=25 bar

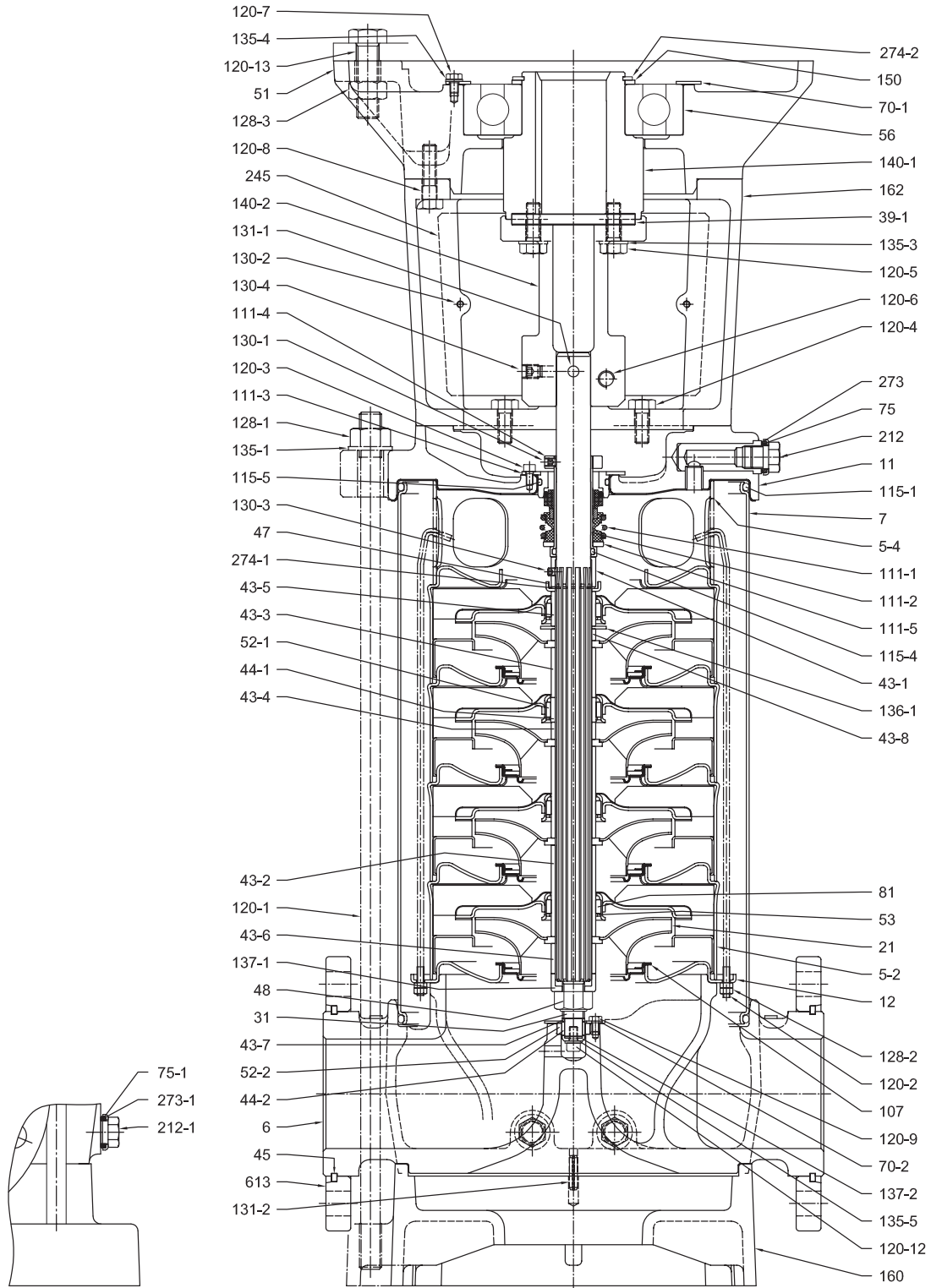
SECTIONAL VIEW
EVM(L)45

EVM(L)45



Pump with single ball bearing

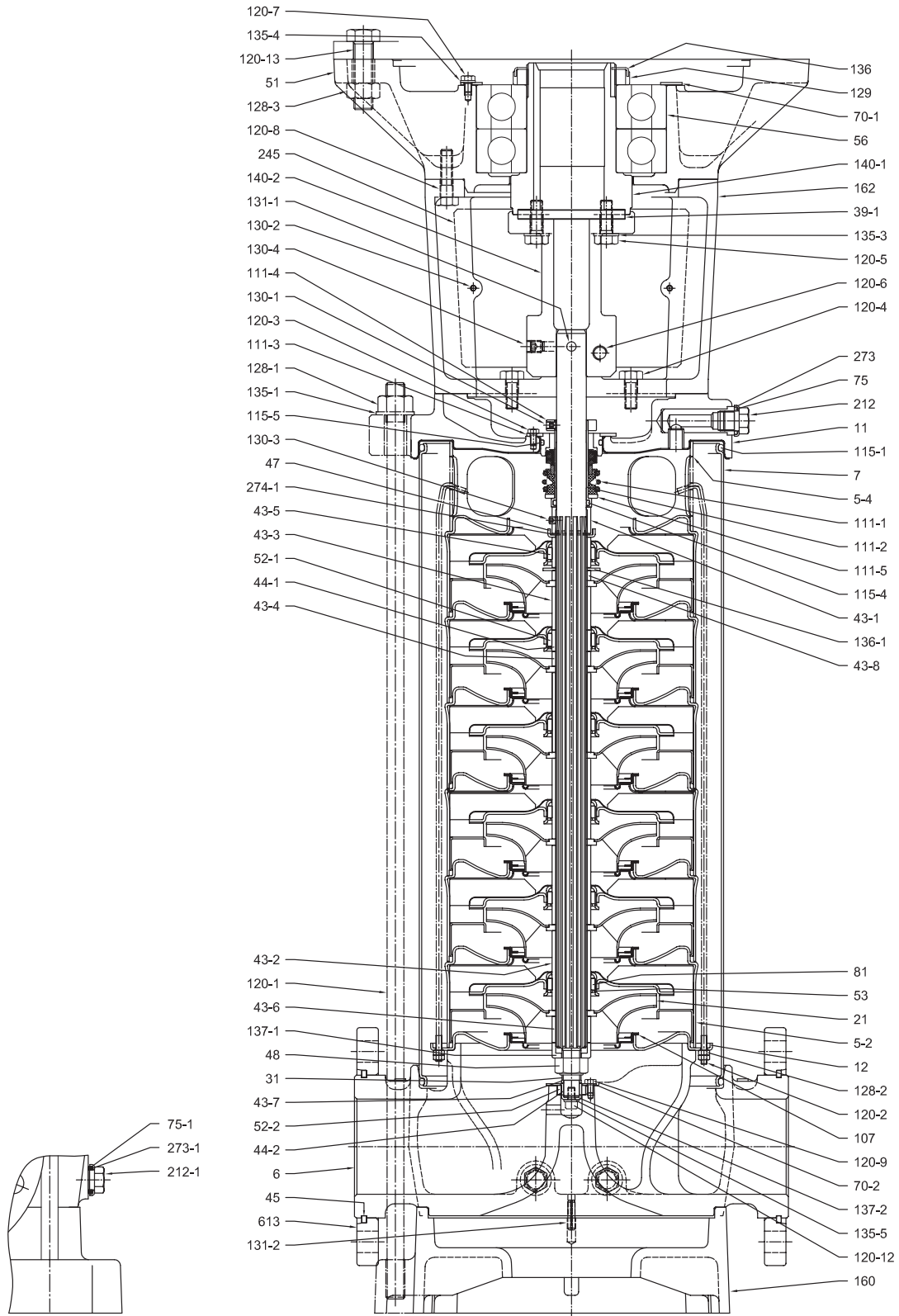
SECTIONAL VIEW EVM(L)45



Pump with single ball bearing

SECTIONAL VIEW
EVM(L)45

EVM(L)45



Pump with double ball bearing

SECTIONAL TABLE EVM(L)45

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVM	EVML		
5-2	Intermediate casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
11	Casing cover	Cast Iron + EN 1.4301 (AISI 304)	Cast Iron + EN 1.4404 (AISI 316L)		
12	Suction cover	EN 1.1301 (AISI304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21-1	Reduced impeller				
31	Shaft	EN 1.4404 (AISI 316L)			
39-1	Key	Carbon Steel		12x8x90	UNI 6604
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-7	Shaft sleeve	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-8	Shaft sleeve (discharge-lower)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing	Tungsten carbide			
44-2	Bearing sleeve (bottom bearing)	Tungsten carbide			
45	Flange holder	EN 1.402 (AISI 420)			
47	Ring holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M16	
51	Motor adapter	Cast iron EN-GJL-200-EN 1561			
52-1	Bearing	Tungsten carbide			
52-2	Bearing	Tungsten carbide			
53	Bush holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
56	Ball bearing	see table page 349			
70-1	Ring for bearing	EN 1.4301 (AISI 304)			
70-2	Ring for bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
75	O-Ring (plug)	EPDM	FPM		
75-1	O-Ring (plug)	EPDM	FPM		
81	Bush	PTFE			
107	Liner ring	PTFE /EN 1.4401 (AISI316)			
111-1	Mechanical Seal	Silicon carbide / Carbon / FPM			
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-4	Seal holder	Brass OT 58 UNI 5705			
111-5	Adjusting ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
115-1	O-Ring (outer casing)	EPDM	FPM	Ø240.66x5.34	
115-4	O-Ring (cartridge sleeve)	EPDM	FPM	Ø24.99x3.53	
115-5	O-Ring (seal cover)	EPDM	FPM	Ø44.04x3.53	
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1			
120-2	Tie-rod	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
120-3	Screw	A2-70 UNI 7323		M5x10	UNI 5931
120-4	Screw	Galvanized steel 8.8 strenght class ISO 898/1		M10x25	UNI 5739
120-5	Screw for coupling	Galvanized steel 8.8 strenght class ISO 898/1		M8x20	UNI 5931
120-6	Screw for coupling	EVM45 1 EVM45 2 to 6	Galvanized steel 8.8 strenght class ISO 898/1	M8x20	UNI 5931
120-7	Screw	Galvanized steel 8.8 strenght class ISO 898/1		M12x30	UNI 5931
120-8	Screw	EVM45 1 EVM45 2 to 6	Galvanized steel 8.8 strenght class ISO 898/1	M6X10	UNI 5739
120-9	Screw	EVMML EVM, EVMG	EN 1.4301 (AISI 304)	M12x25	UNI 5739
120-12	Screw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M10x30	UNI 5739
120-13	Screw	EVM45 1-0, 1-1 EVM45 6 EVML45 2 to 5-3	Galvanized steel 8.8 strenght class ISO 898/1	M5x8	UNI 5737
128-1	Nut for tie rod	Galvanized steel		M5x8	UNI 5739
128-2	Nut	Carbon Steel	EN 1.4401 (AISI 316)	M6x20	UNI 5931
128-3	Nut	Galvanized steel		M8x20	UNI 5739
129	Lock nut	Carbon Steel		M12x30	UNI 5739
130-1	Set screw	A2- 70 UNI 7323		M6x10	UNI 5739
130-2	Screw for coupling guard	A2-70 UNI 7323		M16	UNI 5588
130-3	Set screw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M5	UNI 5588
130-4	Set screw	Carbon Steel		M75x2	
131-1	Pin for shaft	Carbon Steel		M6x8	UNI 5923
131-2	Elastic pin	Galvanized steel		M5x6	UNI 7687
135-1	Washer	Galvanized steel		M6x6	UNI 5923
135-3	Washer	Galvanized steel		M10x10	UNI 5923
135-4	Washer	Carbon Steel		6x25	UNI 6873
135-5	Washer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	17x30x3	UNI 6592
136	Bearing washer	Carbon Steel		10.5x17.5x2.2	UNI 1751
136-1	Stopper ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	6.4	UNI 1751
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
137-2	Shaft spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
140	Coupling	Brass OT 58 UNI 5705			
140-1	Motor coupling	Carbon Steel			
140-2	Coupling (pump side)	Carbon Steel			
150	Spacer	Carbon Steel			
160	Base	Cast Iron EN-GJL-200 EN1561			
162	Motor bracket	Cast Iron EN-GJL-200 EN1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
274-1	C-type snap ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	Ø26	UNI 7435
274-2	C-Typr snap ring	EVM45 1-0, 1-1 EVM45 2 to 4-3 EVM45 4-2	Carbon Steel TC80	Ø50	UNI 7435
274-3	C-Typr snap ring		Carbon Steel TC80	Ø65	UNI 7435
613	Flange	Carbon Steel		Ø75	UNI 7535
				Ø110	UNI 7437

QUANTITY FOR MODEL EVM(L)45

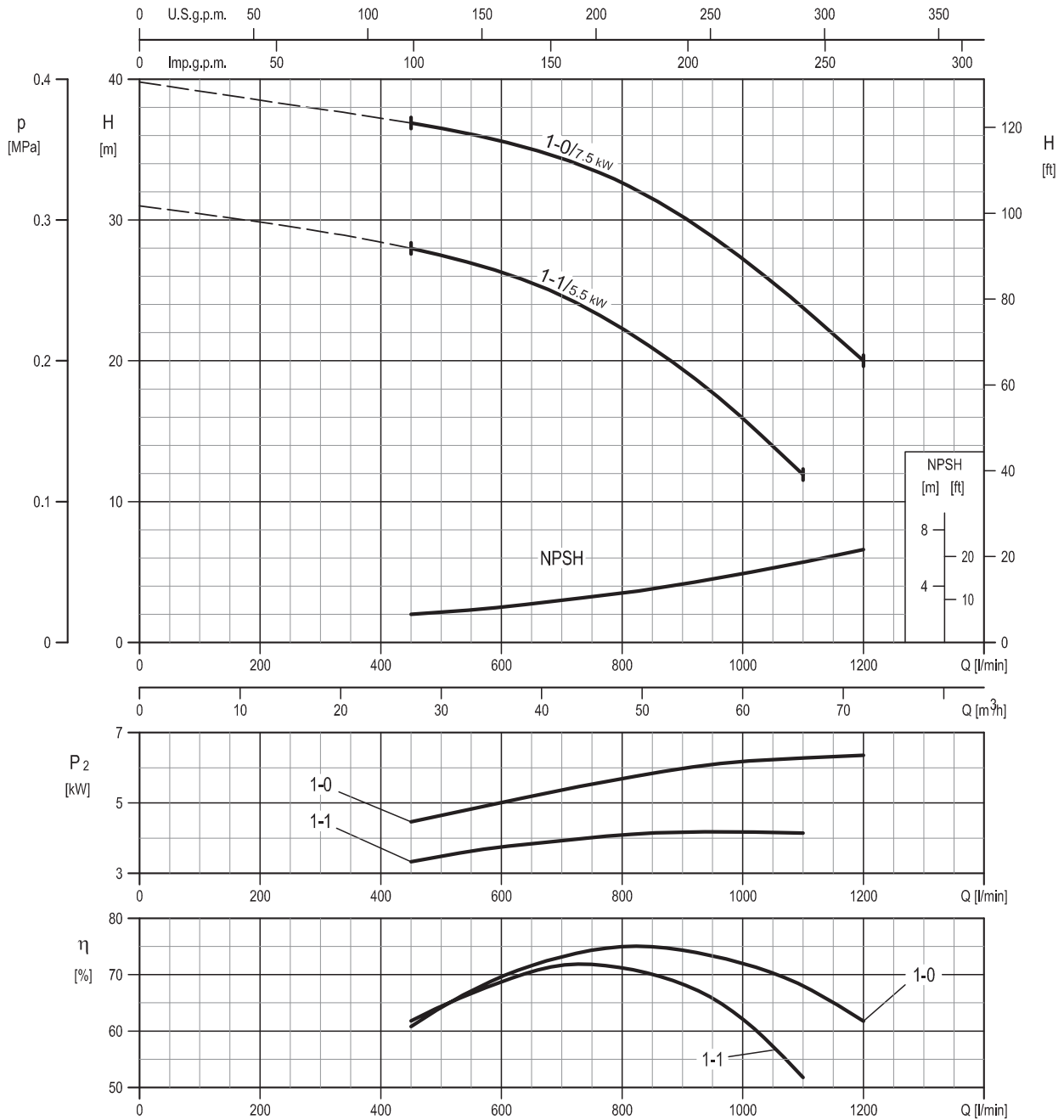
Pump Type	N°																												
	5-2	11	21	21-1	39-1	43-2	43-3	43-4	44-1	52-1	53	56	70-1	81	107	120-4	120-5	120-7	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3
EVM(L)45 1-1F6/5.5	1	/	/	1	/	/	/	/	/	/	1	1	/	1	1	/	/	/	/	/	/	/	/	1	/	/	1	1	1
EVM(L)45 1-0F6/7.5	1	/	1	/	/	/	/	/	/	/	1	1	/	1	1	/	/	/	/	/	/	/	/	1	/	/	1	1	1
EVM(L)45 2-2F6/11	2	1	/	2	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 2-1F6/11	2	1	1	1	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 2-0F6/15	2	1	2	/	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 3-3F6/15	3	1	/	3	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 3-2F6/15	3	1	1	2	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 3-1F6/18.5	3	1	2	1	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 3-0F6/22	3	1	3	/	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 4-3F6/18.5	4	1	1	3	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 4-2F6/22	4	1	2	2	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)45 4-1F6/30	4	1	3	1	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 4-0F6/30	4	1	4	/	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 5-3F6/30	5	1	2	3	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 5-2F6/30	5	1	3	2	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 5-1F6/30	5	1	4	1	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 5-0F6/37	5	1	5	/	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 6-3F6/37	6	1	3	3	1	4	1	1	1	1	6	1	1	5	6	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 6-2F6/37	6	1	4	2	1	4	1	1	1	1	6	1	1	5	6	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)45 6-1F6/37	6	1	5	1	1	4	1	1	1	1	6	1	1	5	6	4	4	3	4	1	4	3	1	/	1	1	/	/	/

BEARINGS EVM(L)45

Pump Type	N° 56
EVM(L)45 1-1F6/5.5	6310 ZZ C3
EVM(L)45 1-0F6/7.5	6310 ZZ C3
EVM(L)45 2-2F6/11	6313 ZZ C3
EVM(L)45 2-1F6/11	6313 ZZ C3
EVM(L)45 2-0F6/15	6313 ZZ C3
EVM(L)45 3-3F6/15	6313 ZZ C3
EVM(L)45 3-2F6/15	6313 ZZ C3
EVM(L)45 3-1F6/18.5	6313 ZZ C3
EVM(L)45 3-0F6/22	6313 ZZ C3
EVM(L)45 4-3F6/18.5	6313 ZZ C3
EVM(L)45 4-2F6/22	6315 ZZ C3
EVM(L)45 4-1F6/30	6315 ZZDT C3 *
EVM(L)45 4-0F6/30	6315 ZZDT C3 *
EVM(L)45 5-3F6/30	6315 ZZDT C3 *
EVM(L)45 5-2F6/30	6315 ZZDT C3 *
EVM(L)45 5-1F6/30	6315 ZZDT C3 *
EVM(L)45 5-0F6/37	6315 ZZDT C3 *
EVM(L)45 6-3F6/37	6315 ZZDT C3 *
EVM(L)45 6-2F6/37	6315 ZZDT C3 *
EVM(L)45 6-1F6/37	6315 ZZDT C3 *

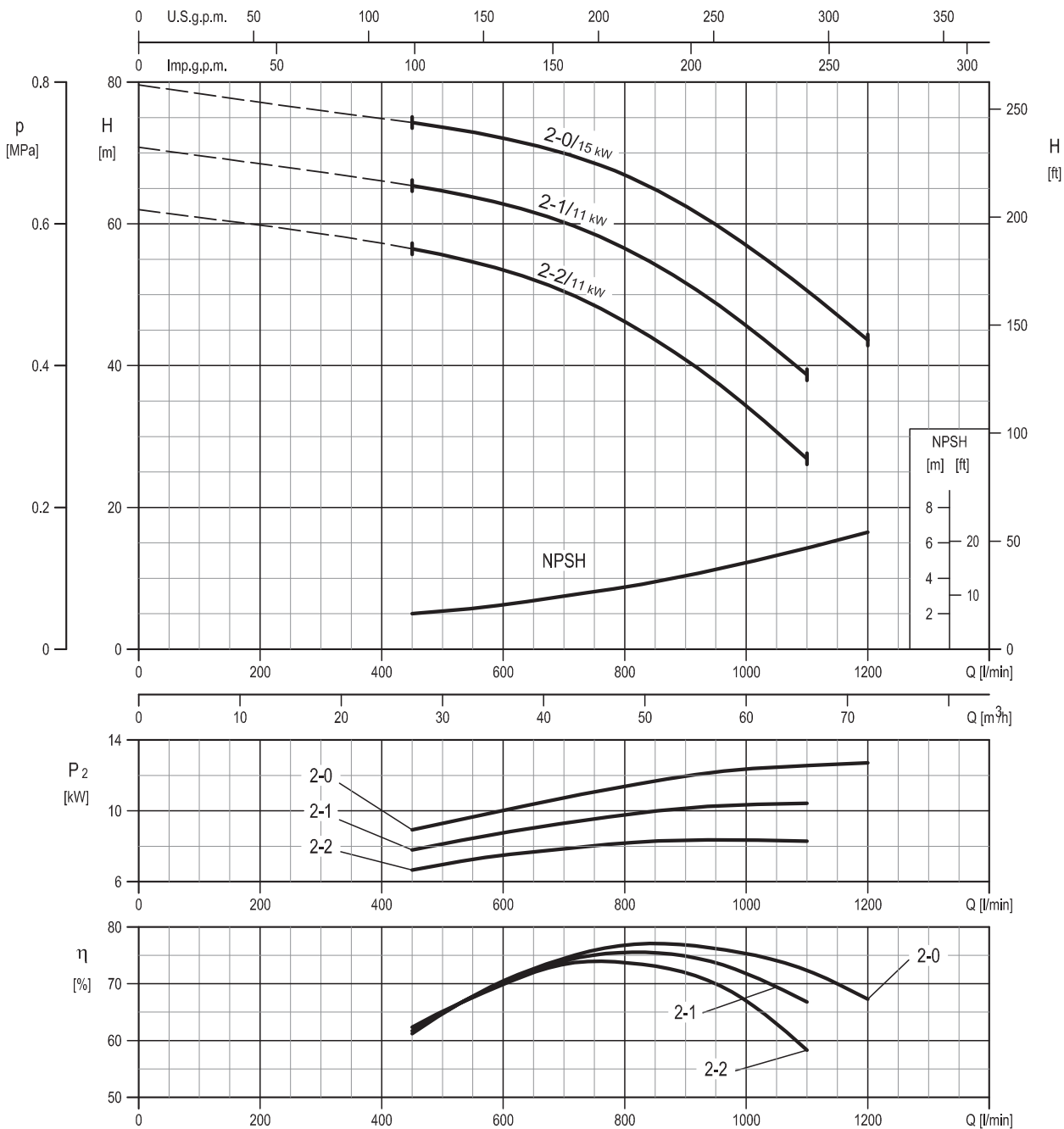
*DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

PERFORMANCE CURVE EVMG45



Rotation speed $\approx 3505 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

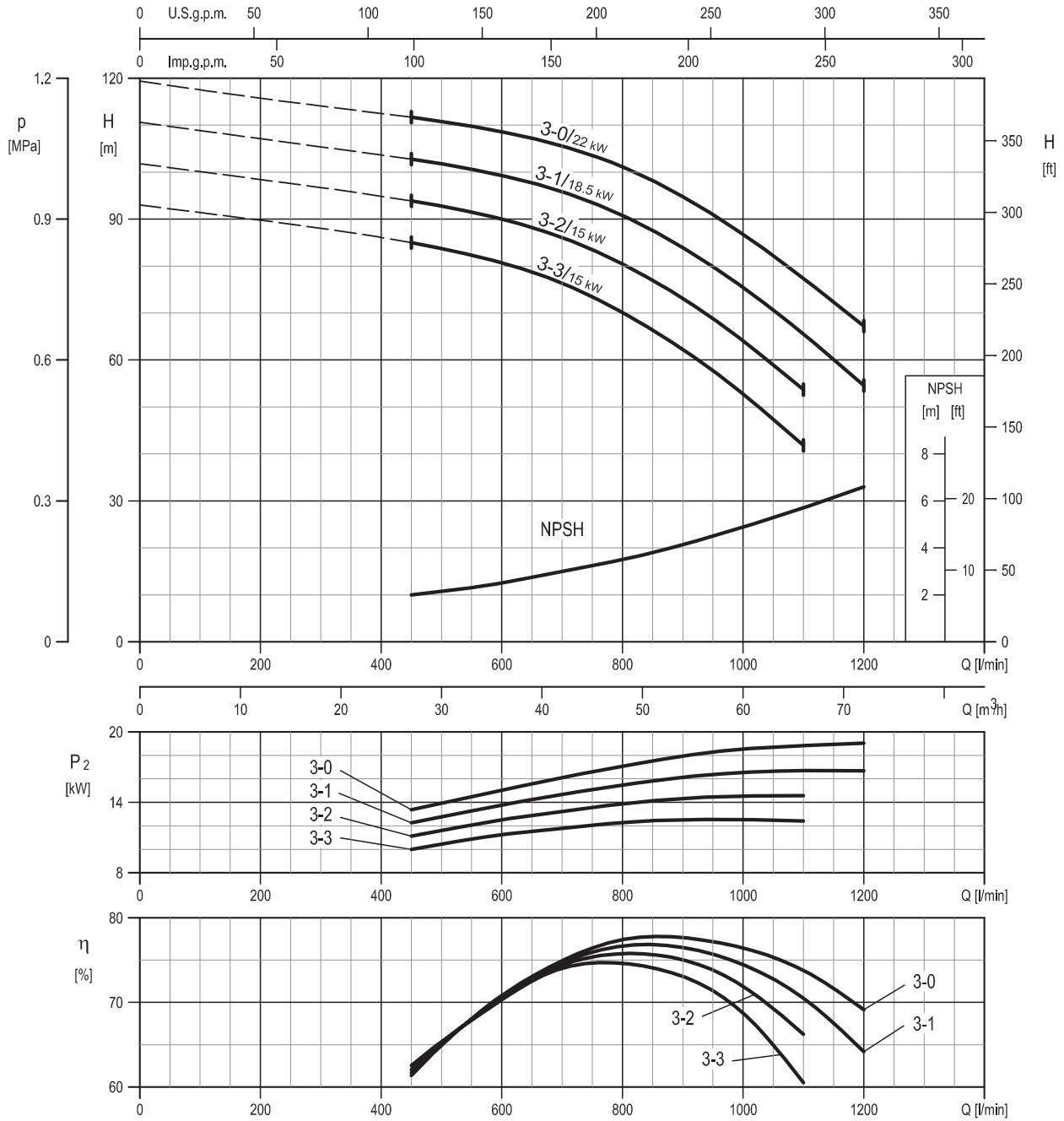
PERFORMANCE CURVE
EVMG45



Rotation speed ≈3520 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

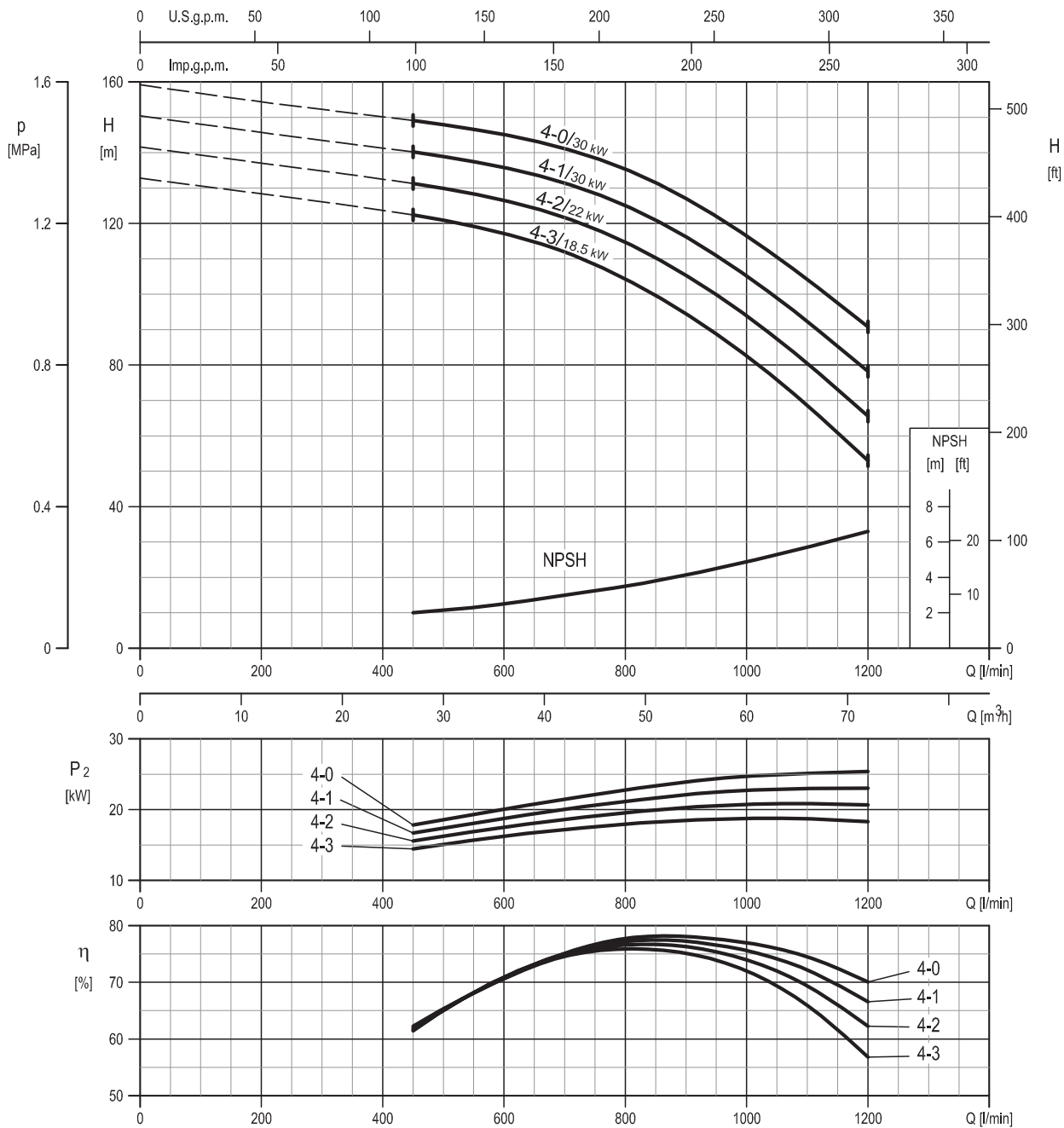
EVMG45

PERFORMANCE CURVE EVMG45



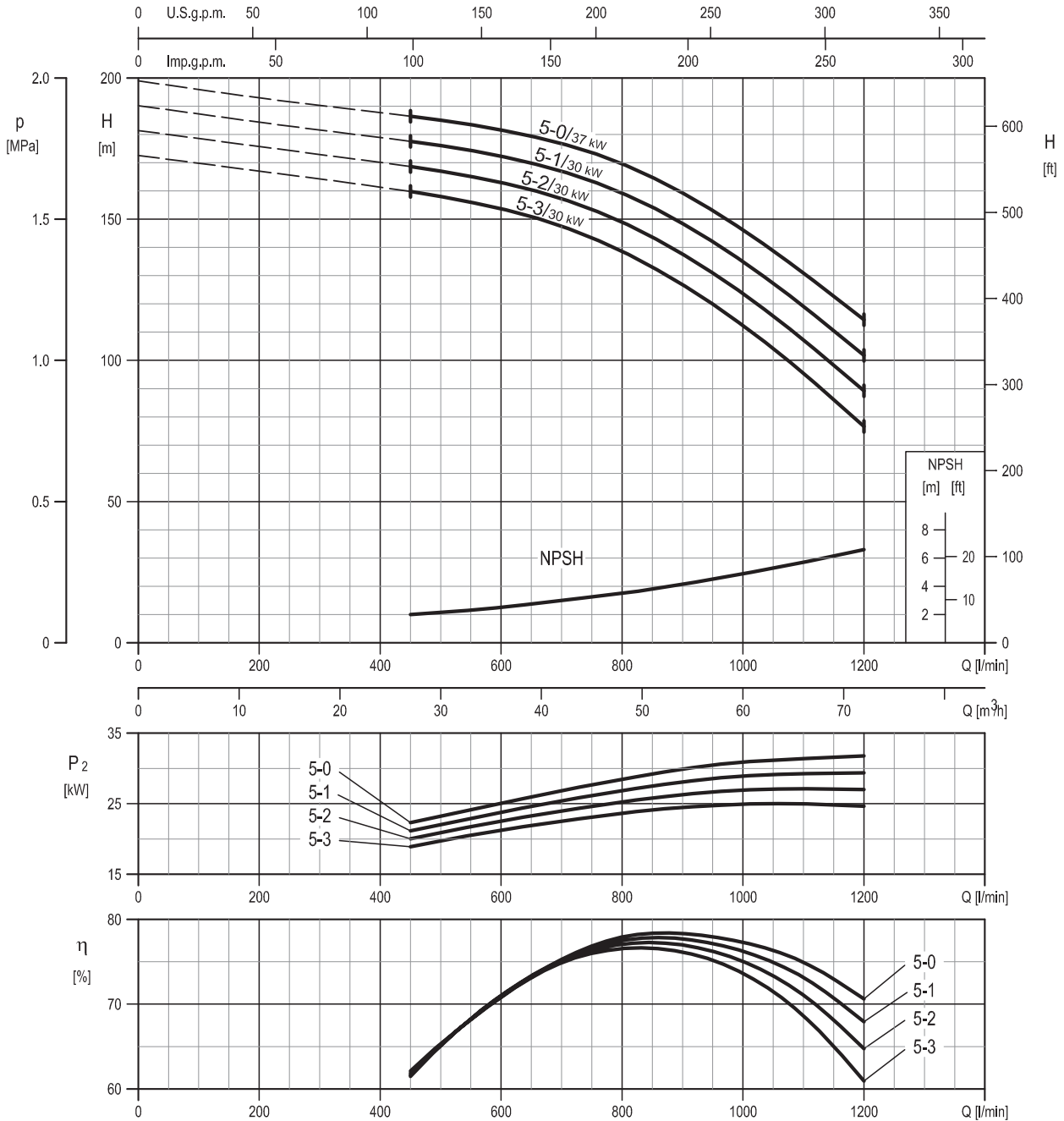
Rotation speed $\approx 3520 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVMG45



Rotation speed ≈ 3530 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

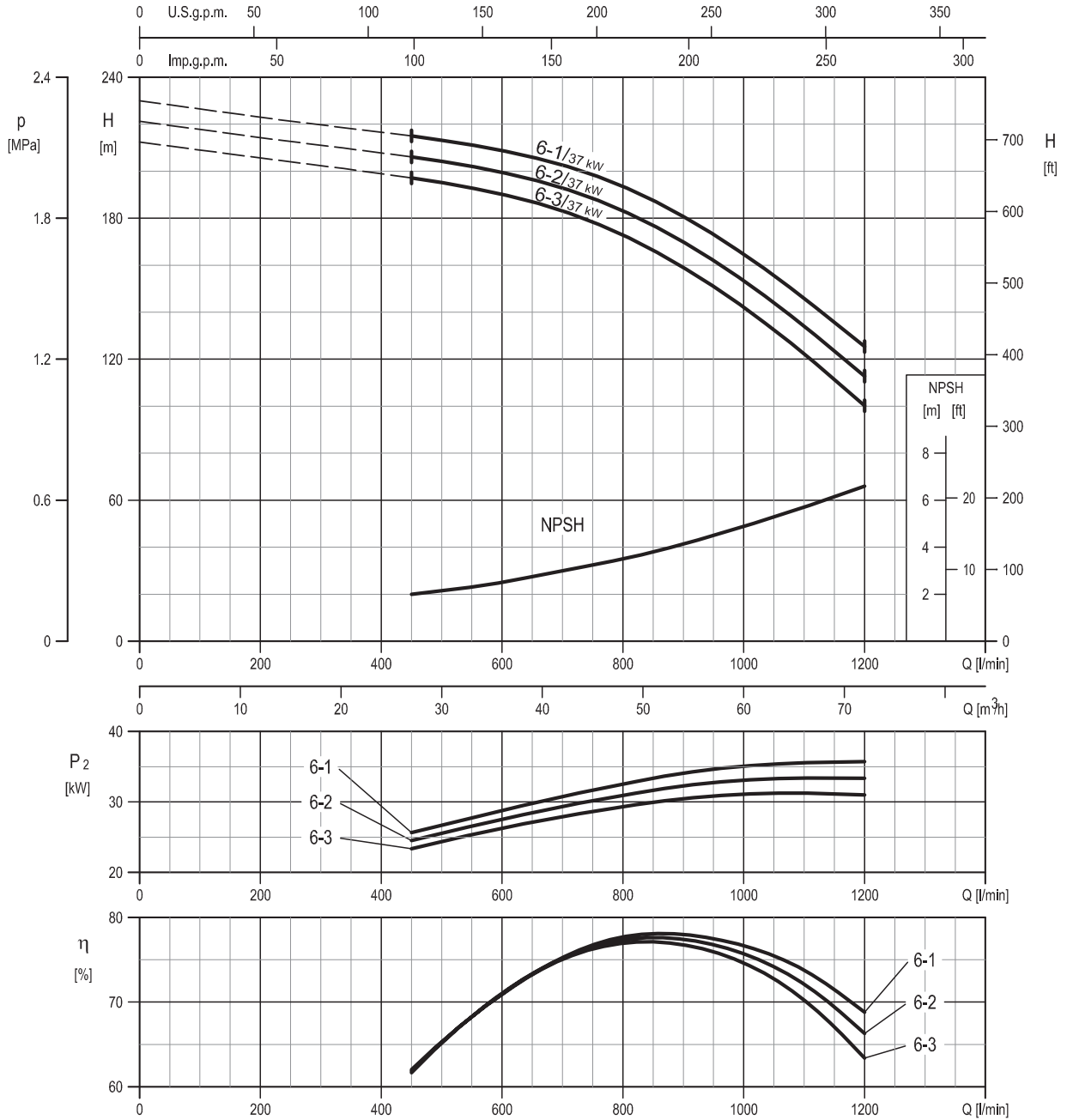
PERFORMANCE CURVE EVMG45



Rotation speed $\approx 3540 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVMG45

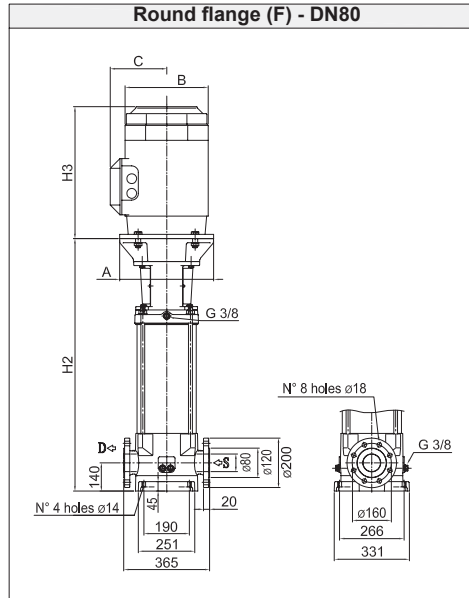
EVMG45



Rotation speed ≈3530 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMG45

Dimensional sketch



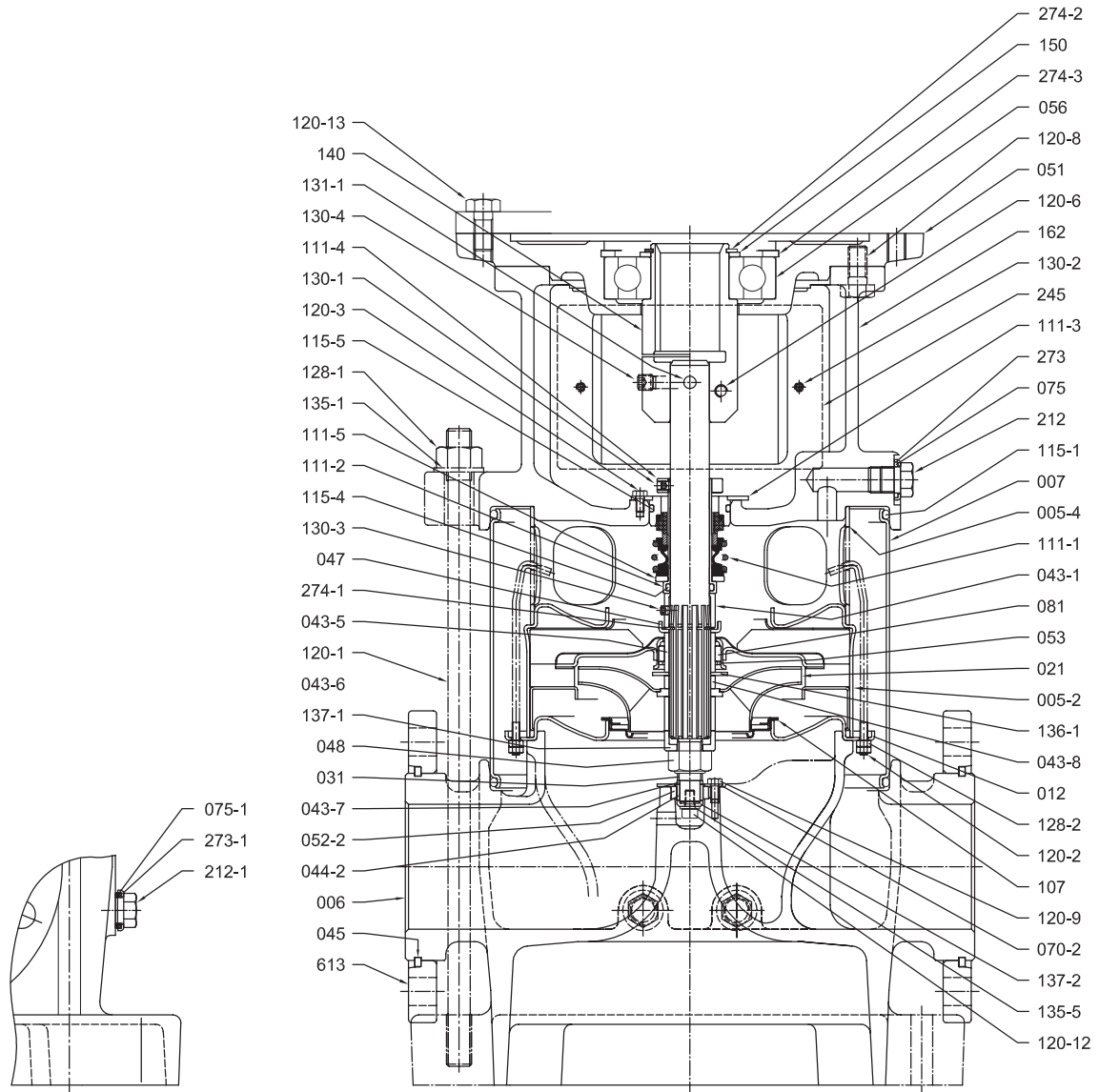
Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor						Round flange (F)		
		kW	Size	A	3 ~			H2	Weight Pump	Weight Pump + Motor
					B	C	H3			
EVMG45 1-1F6/5.5	1.6	5.5	132 S	ø300	225	160	328	546	56	94.6
EVMG45 1-0F6/7.5	1.6	7.5	132 S	ø300	225	160	350	546	56	96.4
EVMG45 2-2F6/11	1.6	11	160 M	ø350	248	194	476	749	58	120.5
EVMG45 2-1F6/11	1.6	11	160 M	ø350	248	194	476	749	58	120.5
EVMG45 2-0F6/15	1.6	15	160 M	ø350	317	238	498	749	58	146.9
EVMG45 3-3F6/15	1.6	15	160 M	ø350	317	238	498	822	74	162.9
EVMG45 3-2F6/15	1.6	15	160 M	ø350	317	238	498	822	74	162.9
EVMG45 3-1F6/18.5	1.6	18.5	160 L	ø350	317	238	542	822	74	178
EVMG45 3-0F6/22	1.6	22	180 M	ø350	360	268	577	822	74	237
EVMG45 4-3F6/18.5	1.6	18.5	160 L	ø350	317	238	542	894	77	181
EVMG45 4-2F6/22	1.6	22	180 M	ø350	360	268	577	894	77	240
EVMG45 4-1F6/30	1.6	30	200 L	ø400	399	300	658	909	77	305
EVMG45 4-0F6/30	1.6	30	200 L	ø400	399	300	658	909	77	305
EVMG45 5-3F6/30	2.5	30	200 L	ø400	399	300	658	981	96	324
EVMG45 5-2F6/30	2.5	30	200 L	ø400	399	300	658	981	96	324
EVMG45 5-1F6/30	2.5	30	200 L	ø400	399	300	658	981	96	324
EVMG45 5-0F6/37	2.5	37	200 L	ø400	399	300	658	981	96	338
EVMG45 6-3F6/37	2.5	37	200 L	ø400	399	300	658	1053	99	341
EVMG45 6-2F6/37	2.5	37	200 L	ø400	399	300	658	1053	99	341
EVMG45 6-1F6/37	2.5	37	200 L	ø400	399	300	658	1053	99	341

1.6 MPa=16 bar ; 2.5 MPa=25 bar

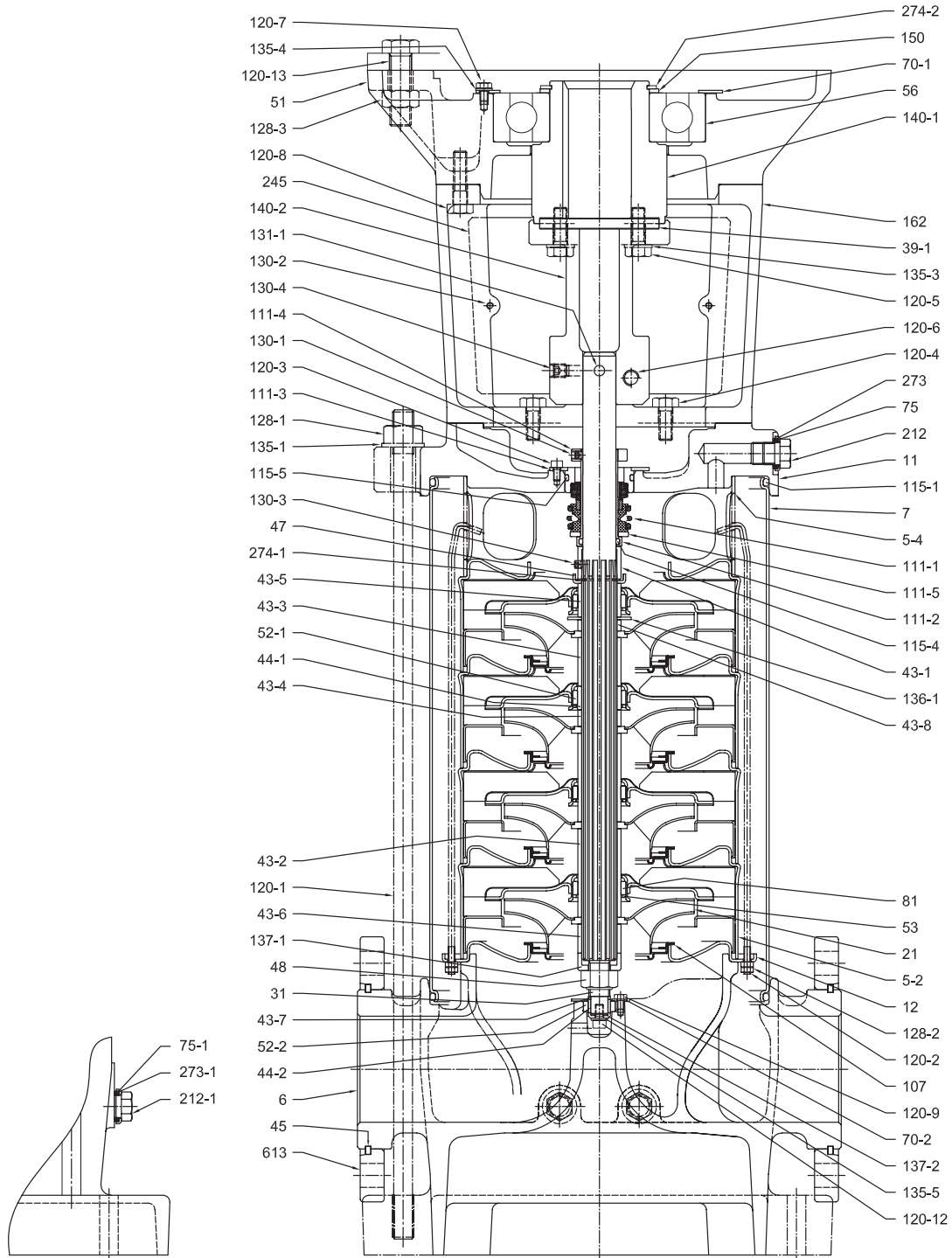
SECTIONAL VIEW
EVMG45

EVMG45



Pump with single ball bearing

SECTIONAL VIEW EVMG45

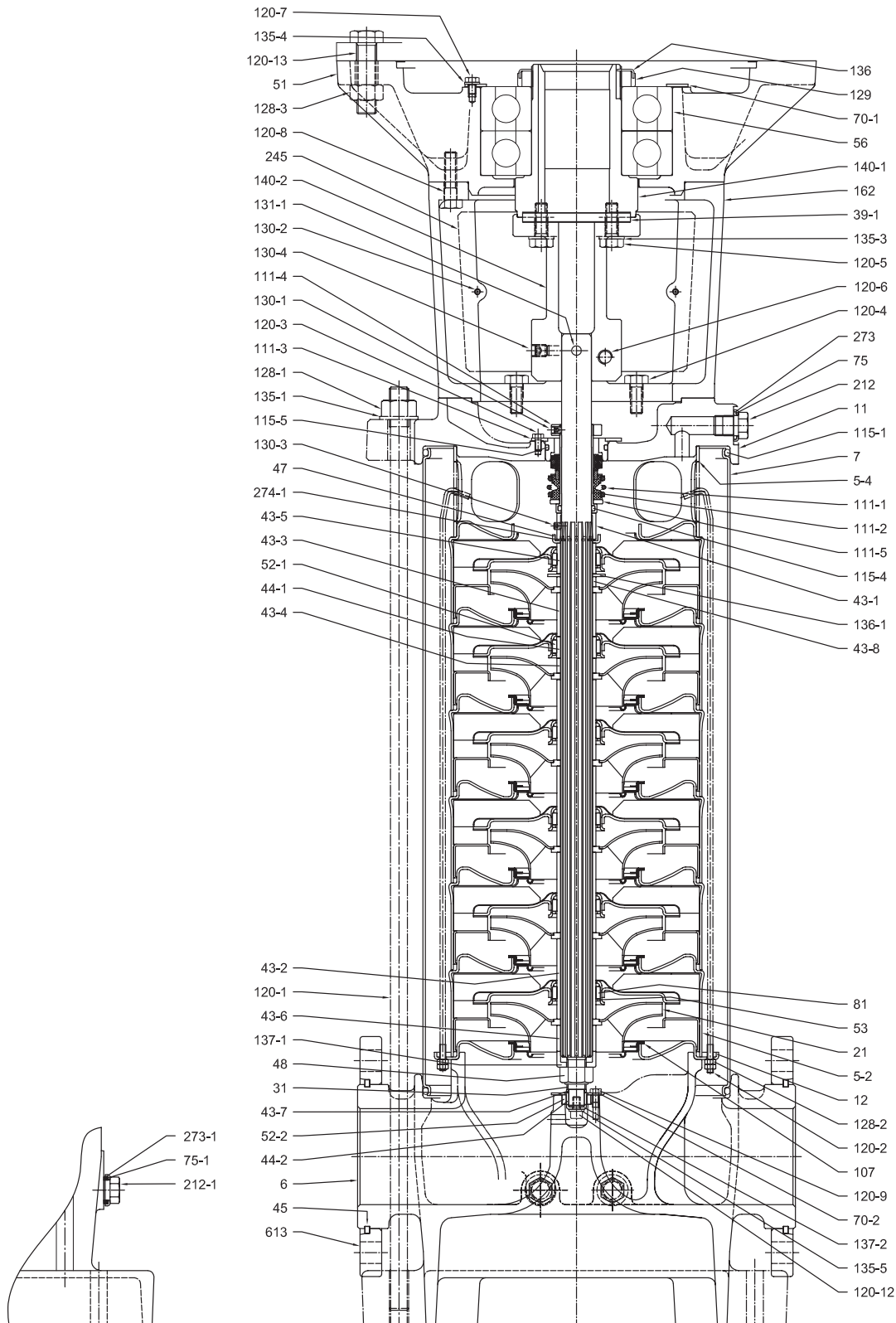


Pump with single ball bearing

EVMG45

SECTIONAL VIEW
EVMG45

EVMG45



Pump with double ball bearing

SECTIONAL TABLE EVMG45

N°	PART NAME	MATERIAL EVMG	DIMENSIONS	STANDARD
5-2	Intermediate Casing	EN 1.4301 (AISI 304)		
5-4	Discharge casing	EN 1.4301 (AISI 304)		
6	Bottom casing	Cast Iron EN G.JL 250 EN 1561		
7	Outer casing	EN 1.4301 (AISI 304)		
11	Casing cover	Cast Iron EN G.JL 250 EN 1561		
12	Suction cover	EN 1.1301 (AISI304)		
21	Impeller			
21-1	Reduced impeller	EN 1.4301 (AISI 304)		
31	Shaft	EN 1.4404 (AISI 316L)		
39-1	Key	Carbon Steel	12x8x90	UNI 6604
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		
43-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		
43-7	Shaft sleeve	EN 1.4301 (AISI 304)		
43-8	Shaft sleeve (discharge-lower)	EN 1.4301 (AISI 304)		
44-1	Shaft sleeve bearing	Tungsten carbide		
44-2	Bearing sleeve (bottom bearing)	Tungsten carbide		
45	Flange holder	EN 1.402 (AISI 420)		
47	Ring Holder	EN 1.4301 (AISI 304)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M16	
51	Motor adapter	Cast iron EN-GJL-200-EN 1561		
52-1	Bearing	Tungsten carbide		
52-2	Bearing	Tungsten carbide		
53	Bush holder	EN 1.4301 (AISI 304)		
56	Ball bearing	see table page 357		
70-1	Ring for bearing	EN 1.4301 (AISI 304)		
70-2	Ring for bearing	EN 1.4301 (AISI 304)		
75	O-Ring (plug)	EPDM		
75-1	O-Ring (plug)	EPDM		
81	Bush	PTFE		
107	Liner ring	PTFE /EN 1.4401 (AISI316)		
111-1	Mechanical Seal	Silicon carbide / Carbon / FPM		
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		
111-4	Seal holder	Brass OT 58 UNI 5705		
111-5	Adjusting ring	EN 1.4301 (AISI 304)		
115-1	O-Ring (outer casing)	EPDM	Ø240.66x5.34	
115-4	O-Ring (cartridge sleeve)	EPDM	Ø24.99x3.53	
115-5	O-Ring (seal cover)	EPDM	Ø44.04x3.53	
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1		
120-2	Tie-rod	EN 1.4301 (AISI 304)		
120-3	Screw	A2-70 UNI 7323	M5x10	UNI 5931
120-4	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M10x25	UNI 5739
120-5	Screw for coupling	Galvanized steel 8.8 strenght class ISO 898/1	M8x20	UNI 5931
120-6	Screw for coupling	Galvanized steel 8.8 strenght class ISO 898/1	M8x20	UNI 5931
120-7	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M12x30	UNI 5931
120-8	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M6X10	UNI 5739
120-8	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M12x25	UNI 5739
120-8	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M10x30	UNI 5739
120-9	Screw	EN 1.4301 (AISI 304)	M5x8	UNI 5737
120-12	Screw	EN 1.4301 (AISI 304)	M5x8	UNI 5739
120-12	Screw	EN 1.4301 (AISI 304)	M6x20	UNI 5931
120-13	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M8x20	UNI 5739
120-13	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M12x30	UNI 5739
120-13	Screw	Galvanized steel 8.8 strenght class ISO 898/1	M6x10	UNI 5739
128-1	Nut for tie rod	Galvanized steel	M16	UNI 5588
128-2	Nut	Carbon Steel	M5	UNI 5588
128-3	Nut	Galvanized steel	M16	UNI 5588
129	Lock nut	Carbon Steel	M75x2	
130-1	Set screw	A2- 70 UNI 7323	M6x8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323	M5x6	UNI 7687
130-3	Set screw	A2- 70 UNI 7323	M6x6	UNI 5923
130-4	Set screw	Carbon Steel	M10x10	UNI 5923
131-1	Pin for shaft	Carbon Steel		
135-1	Washer	Galvanized steel	17x30x3	UNI 6592
135-3	Washer	Galvanized steel	10.5x17.5x2.2	UNI 1751
135-4	Washer	Carbon Steel	6.4	UNI 1751
135-5	Washer	EN 1.4301 (AISI 304)		
136	Bearing washer	Carbon Steel		
136-1	Stopper ring	EN 1.4301 (AISI 304)		
137-1	Impeller spacer	EN 1.4301 (AISI 304)		
137-2	Shaft spacer	EN 1.4301 (AISI 304)		
140	Coupling	Brass OT 58 UNI 5705		
140-1	Motor coupling	Carbon Steel		
140-2	Coupling (pump side)	Carbon Steel		
150	Spacer	Carbon Steel		
162	Motor bracket	Cast Iron EN-GJL-200 EN1561		
212	Plug	EN 1.4301 (AISI 304)		
212-1	Plug	EN 1.4301 (AISI 304)		
245	Coupling guard	EN 1.4301 (AISI 304)		
273	Plug Washer	EN 1.4301 (AISI 304)		
273-1	Plug Washer	EN 1.4301 (AISI 304)		
274-1	C-type snap ring	EN 1.4301 (AISI 304)	Ø26	UNI 7435
274-2	C-type snap ring	Carbon Steel TC80	Ø50	UNI 7435
274-2	C-type snap ring	Carbon Steel TC80	Ø65	UNI 7435
274-2	C-type snap ring	Carbon Steel TC80	Ø75	UNI 7535
274-3	C-type snap ring	Carbon Steel TC80	Ø110	UNI 7437
613	Flange	Carbon Steel		

QUANTITY FOR MODEL EVMG45

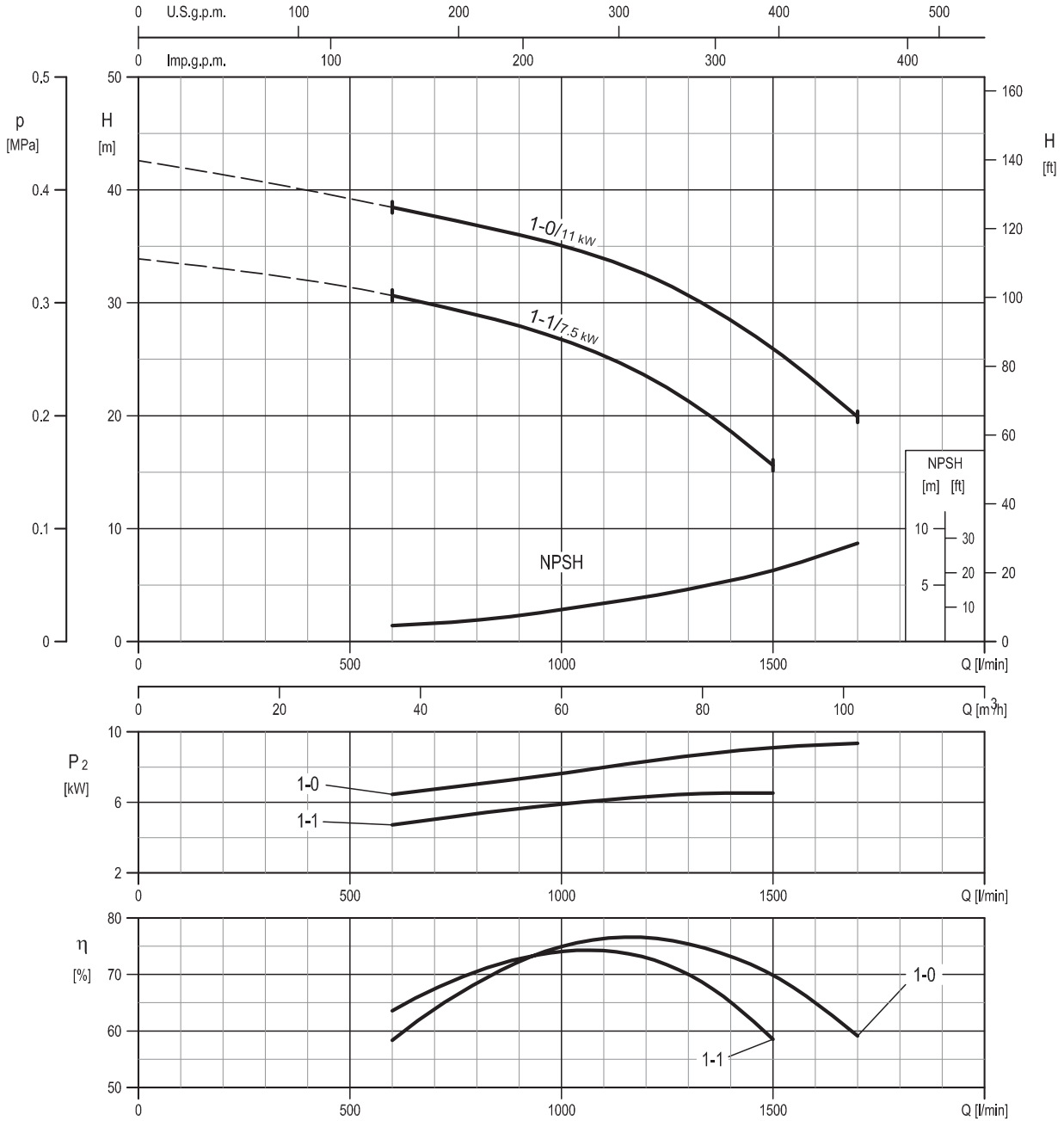
Pump Type	N°																												
	5-2	11	21	21-1	39-1	43-2	43-3	43-4	44-1	52-1	53	56	70-1	81	107	120-4	120-5	120-7	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3
EVMG45 1-1F6/5.5	1	/	/	1	/	/	/	/	/	/	1	1	/	1	1	/	/	/	/	/	/	/	/	1	/	/	1	1	1
EVMG45 1-0F6/7.5	1	/	1	/	/	/	/	/	/	/	1	1	/	1	1	/	/	/	/	/	/	/	/	1	/	/	1	1	1
EVMG45 2-2F6/11	2	1	/	2	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 2-1F6/11	2	1	1	1	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 2-0F6/15	2	1	2	/	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 3-3F6/15	3	1	/	3	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 3-2F6/15	3	1	1	2	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 3-1F6/18.5	3	1	2	1	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 3-0F6/22	3	1	3	/	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 4-3F6/18.5	4	1	1	3	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 4-2F6/22	4	1	2	2	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG45 4-1F6/30	4	1	3	1	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 4-0F6/30	4	1	4	/	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	1	/	/
EVMG45 5-3F6/30	5	1	2	3	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 5-2F6/30	5	1	3	2	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 5-1F6/30	5	1	4	1	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 5-0F6/37	5	1	5	/	1	3	1	1	1	1	5	1	1	4	5	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 6-3F6/37	6	1	3	3	1	4	1	1	1	1	6	1	1	5	6	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 6-2F6/37	6	1	4	2	1	4	1	1	1	1	6	1	1	5	6	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG45 6-1F6/37	6	1	5	1	1	4	1	1	1	1	6	1	1	5	6	4	4	3	4	1	4	3	1	/	1	1	/	/	/

BEARINGS EVMG45

Pump Type	N° 56
EVMG45 1-1F6/5.5	6310 ZZ C3
EVMG45 1-0F6/7.5	6310 ZZ C3
EVMG45 2-2F6/11	6313 ZZ C3
EVMG45 2-1F6/11	6313 ZZ C3
EVMG45 2-0F6/15	6313 ZZ C3
EVMG45 3-3F6/15	6313 ZZ C3
EVMG45 3-2F6/15	6313 ZZ C3
EVMG45 3-1F6/18.5	6313 ZZ C3
EVMG45 3-0F6/22	6313 ZZ C3
EVMG45 4-3F6/18.5	6313 ZZ C3
EVMG45 4-2F6/22	6315 ZZ C3
EVMG45 4-1F6/30	6315 ZZDT C3 *
EVMG45 4-0F6/30	6315 ZZDT C3 *
EVMG45 5-3F6/30	6315 ZZDT C3 *
EVMG45 5-2F6/30	6315 ZZDT C3 *
EVMG45 5-1F6/30	6315 ZZDT C3 *
EVMG45 5-0F6/37	6315 ZZDT C3 *
EVMG45 6-3F6/37	6315 ZZDT C3 *
EVMG45 6-2F6/37	6315 ZZDT C3 *
EVMG45 6-1F6/37	6315 ZZDT C3 *

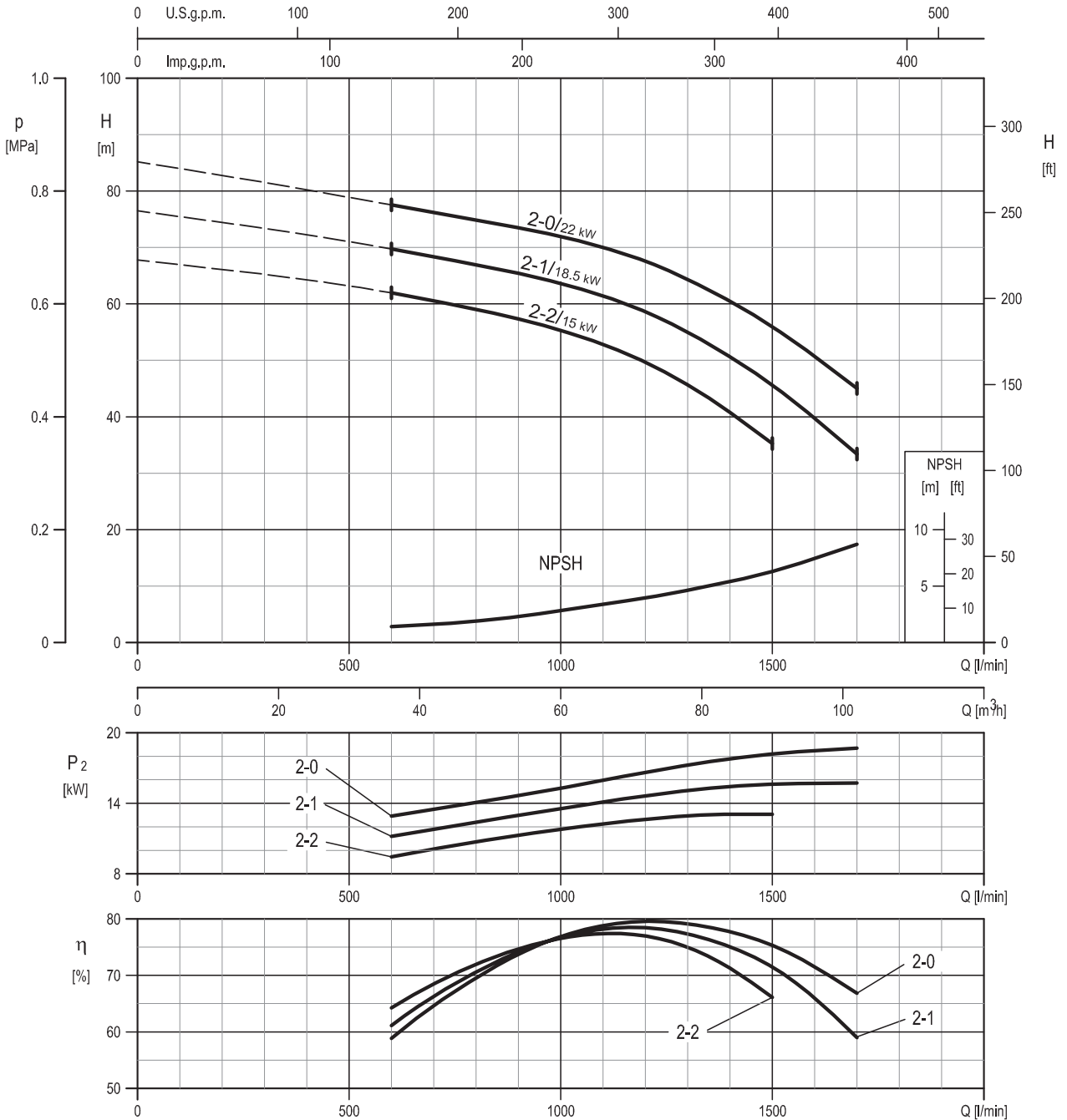
*DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

PERFORMANCE CURVE EVM(L)64



Rotation speed $\approx 3520 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

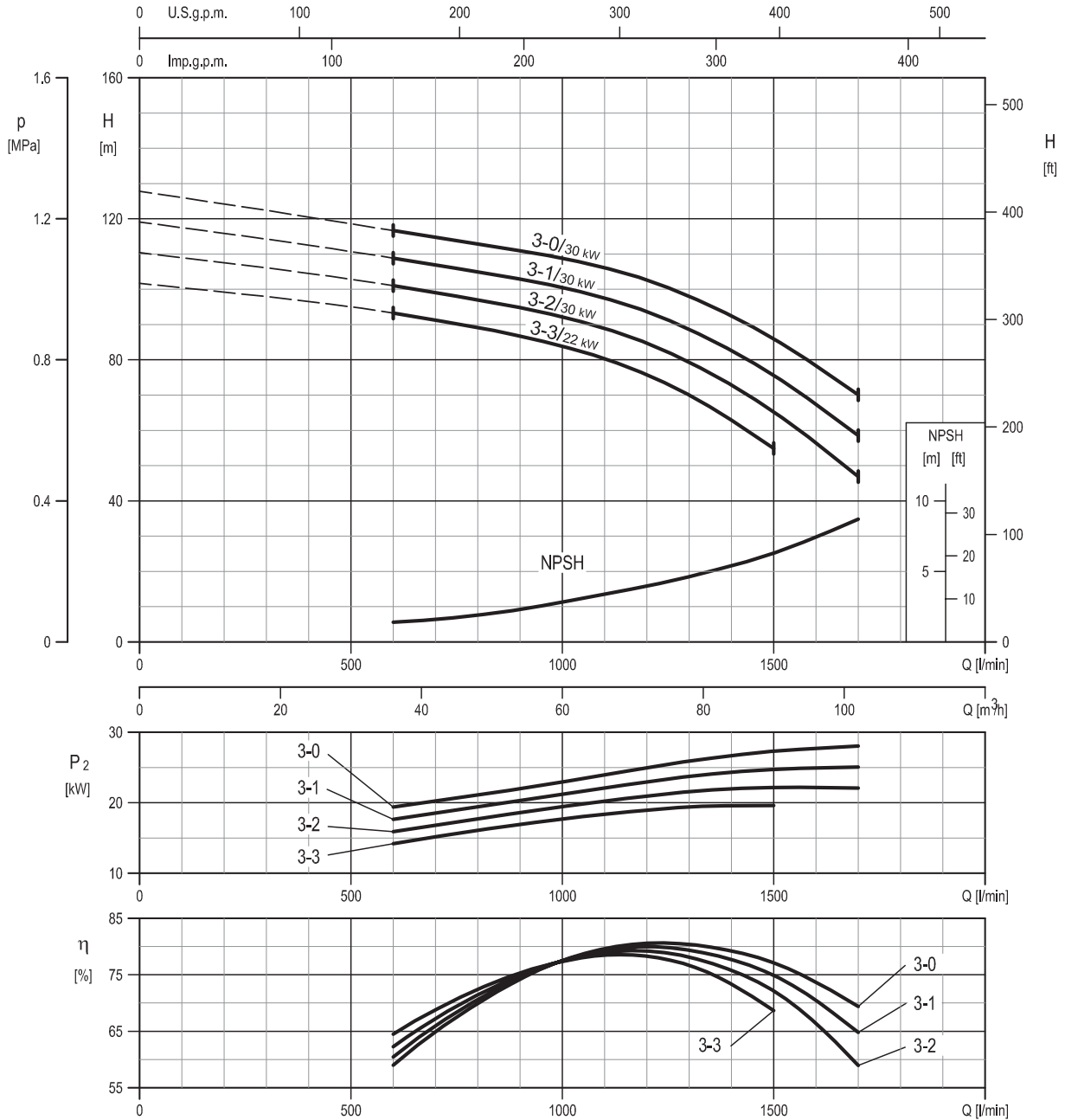
PERFORMANCE CURVE
EVM(L)64



Rotation speed $\approx 3530 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

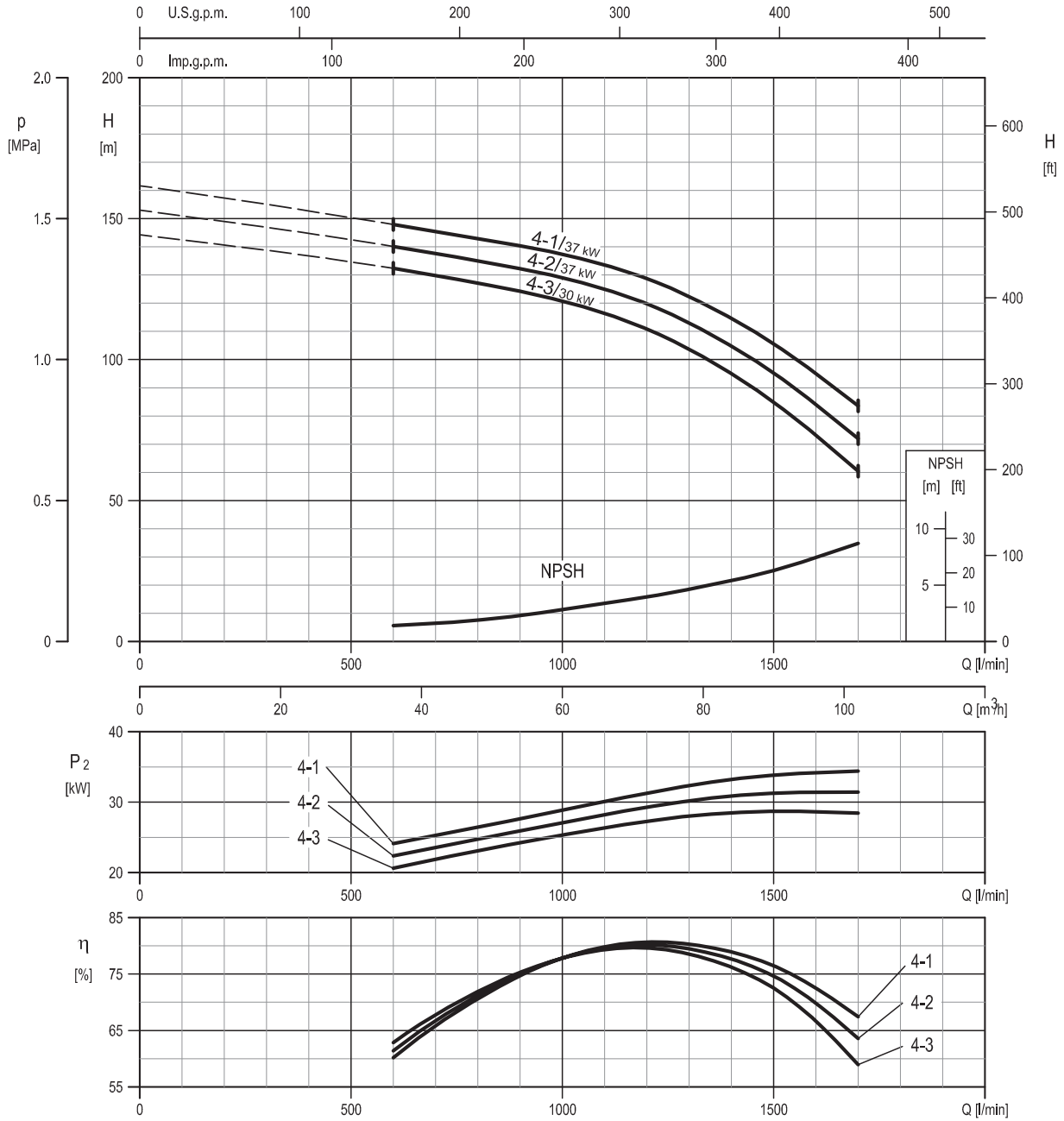
EVM(L)64

PERFORMANCE CURVE EVM(L)64



Rotation speed $\approx 3540 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE
EVM(L)64

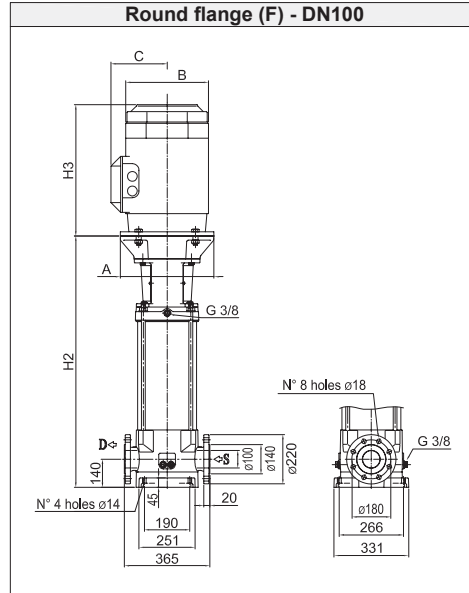


Rotation speed $\approx 3540 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

EVM(L)64

TECHNICAL DATA EVM(L)64

Dimensional sketch



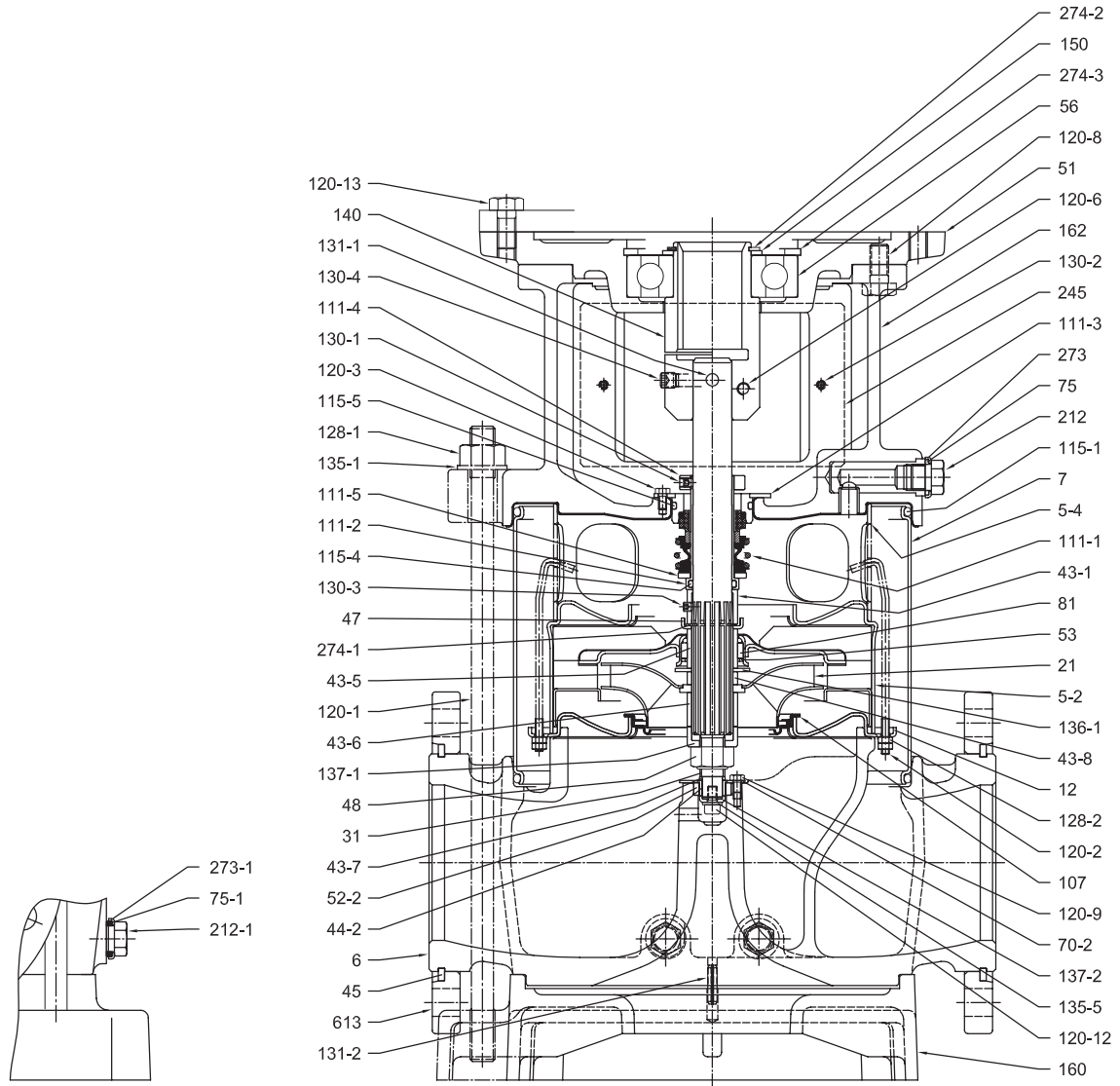
Dimensions [mm] and Weights [Kg]

Pump Type	P _{max} [MPa]	Motor						Round flange (F)		
		kW	Size	A	B	C	H3	H2	Weight Pump	Weight Pump + Motor
EVM(L)64 1-1F6/7.5	1.6	7.5	132 S	ø300	225	160	350	546	70	110.4
EVM(L)64 1-0F6/11	1.6	11	160 M	ø350	248	194	476	677	77	139.5
EVM(L)64 2-2F6/15	1.6	15	160 M	ø350	317	238	498	749	81	169.9
EVM(L)64 2-1F6/18.5	1.6	18.5	160 L	ø350	317	238	542	749	94	198
EVM(L)64 2-0F6/22	1.6	22	180 M	ø350	360	268	577	749	94	257
EVM(L)64 3-3F6/22	1.6	22	180 M	ø350	360	268	577	821	99	262
EVM(L)64 3-2F6/30	1.6	30	200 L	ø400	399	300	658	837	99	327
EVM(L)64 3-1F6/30	1.6	30	200 L	ø400	399	300	658	837	99	327
EVM(L)64 3-0F6/30	1.6	30	200 L	ø400	399	300	658	837	99	327
EVM(L)64 4-3F6/30	1.6	30	200 L	ø400	399	300	658	909	108	336
EVM(L)64 4-2F6/37	1.6	37	200 L	ø400	399	300	658	909	108	350
EVM(L)64 4-1F6/37	1.6	37	200 L	ø400	399	300	658	909	108	350

1.6 MPa=16 bar

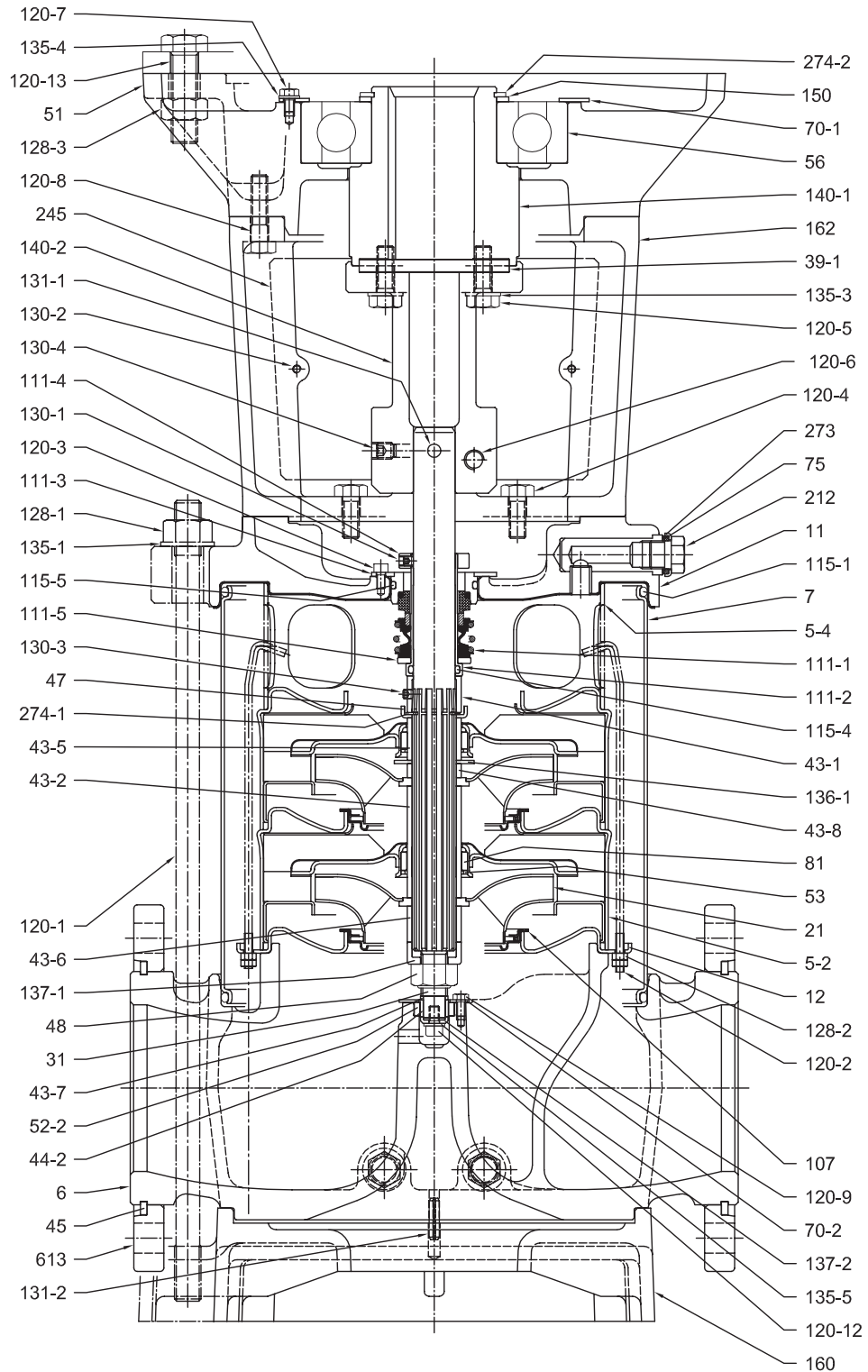
SECTIONAL VIEW
EVM(L)64

EVM(L)64



Pump with single ball bearing

SECTIONAL VIEW EVM(L)64

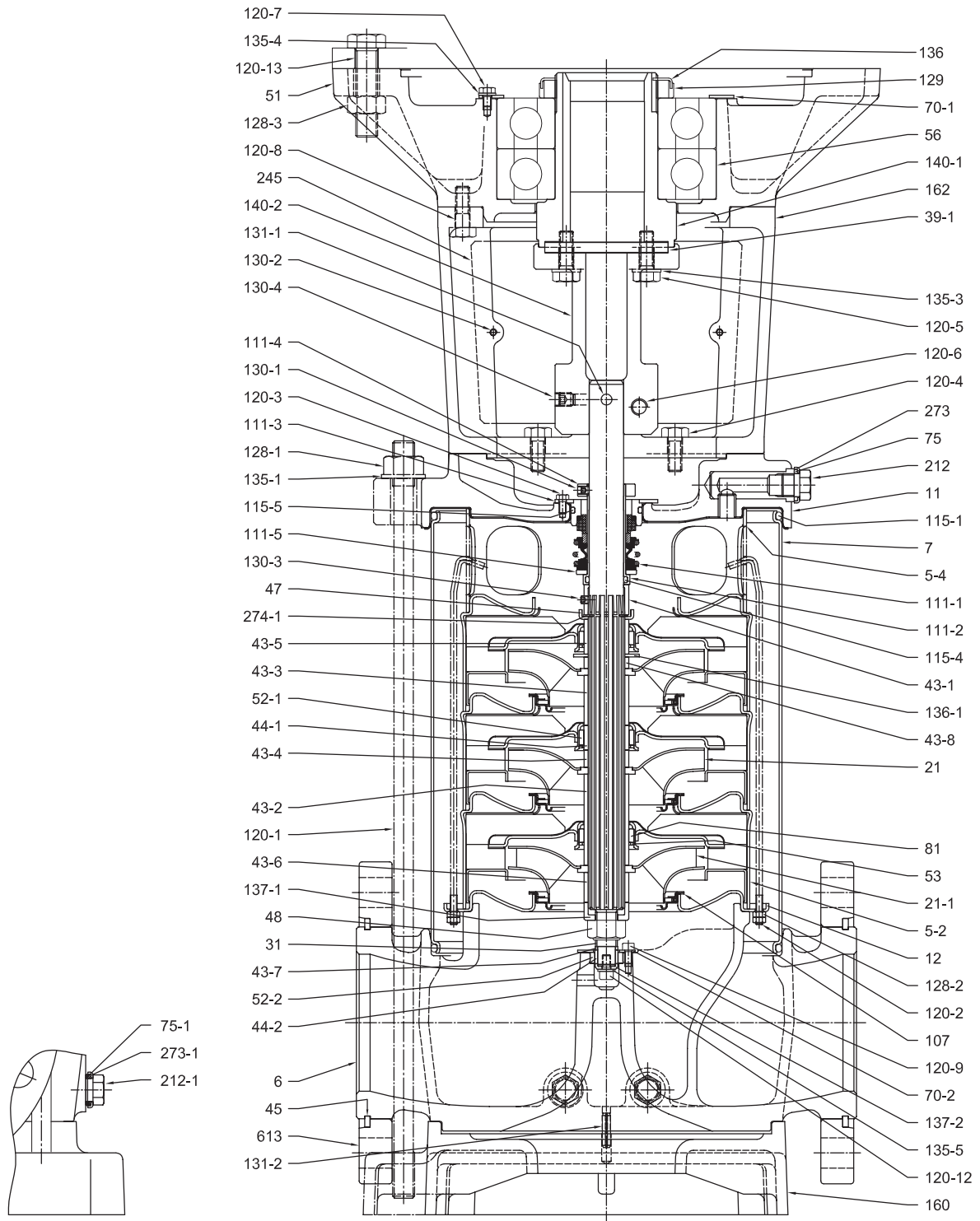


Pump with single ball bearing

EVM(L)64

SECTIONAL VIEW
EVM(L)64

EVM(L)64



Pump with double ball bearing

SECTIONAL TABLE EVM(L)64

N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD	
		EVM	EVML			
5-2	Intermediate casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
6	Bottom casing	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)			
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
11	Casing cover	Cast iron + EN 1.4301 (AISI 304)	Cast iron + EN 1.4404 (AISI 316L)			
12	Suction cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
21	Impeller					
21-1	Reduced impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
31	Shaft	EN 1.4404 (AISI 316L)				
39-1	Key	Carbon steel		12X8X90	UNI 6604	
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-7	Shaft sleeve	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
43-8	Shaft sleeve (discharge-lower)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
44-1	Shaft sleeve bearing	Tungsten carbide				
44-2	Bearing sleeve (bottom bearing)	Tungsten carbide				
45	Flange holder	EN 1.402 (AISI 420)				
47	Ring holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M16		
51	Motor adapter	Cast iron EN-GJL-200-EN 1561				
52-1	Bearing	Tungsten carbide				
52-2	Bearing	Tungsten carbide				
53	Bush holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
56	Ball bearing	see table page 371				
70-1	Ring for bearing	EN 1.4301 (AISI 304)				
70-2	Ring for bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
75	O-Ring (plug)	EPDM	FPM			
75-1	O-Ring (plug)	EPDM	FPM			
81	Bush	PTFE				
107	Liner ring	PTFE / EN 1.4401 (AISI 316)				
111-1	Mechanical Seal	Silicon carbide / Carbon /FPM				
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
111-4	Seal holder	Brass OT 58 UNI 5705				
111-5	Adjusting ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			
115-1	O-Ring (outer casing)	EPDM	FPM	Ø240,66X5,34		
115-4	O-Ring (cartridge sleeve)	EPDM	FPM	Ø24,99X3,53		
115-5	O-Ring (seal cover)	EPDM	FPM	Ø44,04X3,53		
120-1	Tie-rod	Galvanized steel 6.8 Strenght class ISO 898/1				
120-2	Tie-rod	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
120-3	Screw	A2-70 UNI 7323		M5X10	UNI 5931	
120-4	Screw	Galvanized steel 8.8 Strenght class ISO 898/1		M10X25	UNI 5739	
120-5	Screw for coupling	Galvanized steel 8.8 Strenght class ISO 898/1		M10X30	UNI 5739	
120-6	Screw for coupling	EVM64 1-1	Galvanized steel 8.8 Strenght class ISO 898/1	M 8X20	UNI 5931	
		EVM64 1-0 and higher		M12X30	UNI 5931	
120-7	Screw	Galvanized steel		M 6X10	UNI 5739	
120-8	Screw	EVM64 1-0 to 4-3	Galvanized steel 8.8 Strenght class ISO 898/1	M10X30	UNI 5739	
		EVM64 1-1		M12X35	UNI 5739	
120-9	Screw	EVML	EN 1.4301 (AISI 304)	M5X8	UNI 5737	
		EVM, EVMG		M5X8	UNI 5739	
120-12	Screw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M 6X20	UNI 5931	
				M12X30	UNI 5739	
				M16X55	UNI 5737	
120-13	Screw	EVM 64 1-1	Galvanized steel 8.8 Strenght class ISO 898/1	M16X65	UNI 5739	
				EVM 64 4-1, 4-2	M16	UNI 5588
				EVM 64 1-0 to 4-3	M5	UNI 5588
128-1	Nut for tie rod	Carbon steel	EN 1.4401 (AISI 316)	M5	UNI 5588	
128-2	Nut	Galvanized steel		M16	UNI 5588	
128-3	Nut	Galvanized steel				
129	Lock nut	Carbon steel				
130-1	Set screw	A2-70 UNI 7323		M6X8	UNI 5923	
130-2	Screw for coupling guard	A2-70 UNI 7323		M5X6	UNI 7687	
130-3	Set screw	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M6X6	UNI 5923	
130-4	Set screw	Galvanized steel		M10X10	UNI 5923	
131-1	Pin for shaft	Carbon steel				
131-2	Elastic pin	Galvanized steel		6X25	UNI 6873	
135-1	Washer	Galvanized steel		17X30X3	UNI 6592	
135-3	Washer	Galvanized steel		10,5X17,5X2,2	UNI 1751	
135-4	Washer	Plated carbon steel		6,4	UNI 1751	
135-5	Washer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	Ø6		
136	Bearing washer	Carbon steel				
136-1	Stopper ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)			
137-2	Shaft spacer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
140	Coupling	Brass OT 58 UNI 5705				
140-1	Motor coupling	Carbon steel				
140-2	Coupling (pump side)	Carbon steel				
150	Spacer	Carbon steel				
160	Base	Cast iron EN-GJL-200 EN 1561				
162	Motor bracket	Cast iron EN-GJL-200-EN 1561				
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
245	Coupling guard	EN 1.4301 (AISI 304)				
273	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			
274-1	C-type snap ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	Ø26	UNI 7435	
				Ø50	UNI 7435	
274-2	C-Typr snap ring	EVM 64 1-1	Carbon steel TC80	Ø65	UNI 7435	
				EVM 64 4-1, 4-2	Ø75	UNI 7535
				EVM 64 1-0 to 4-3	Ø110	UNI 7437
274-3	C-Typr snap ring	Carbon steel TC80				
613	Flange	Carbon steel				

QUANTITY FOR MODEL EVM(L)64

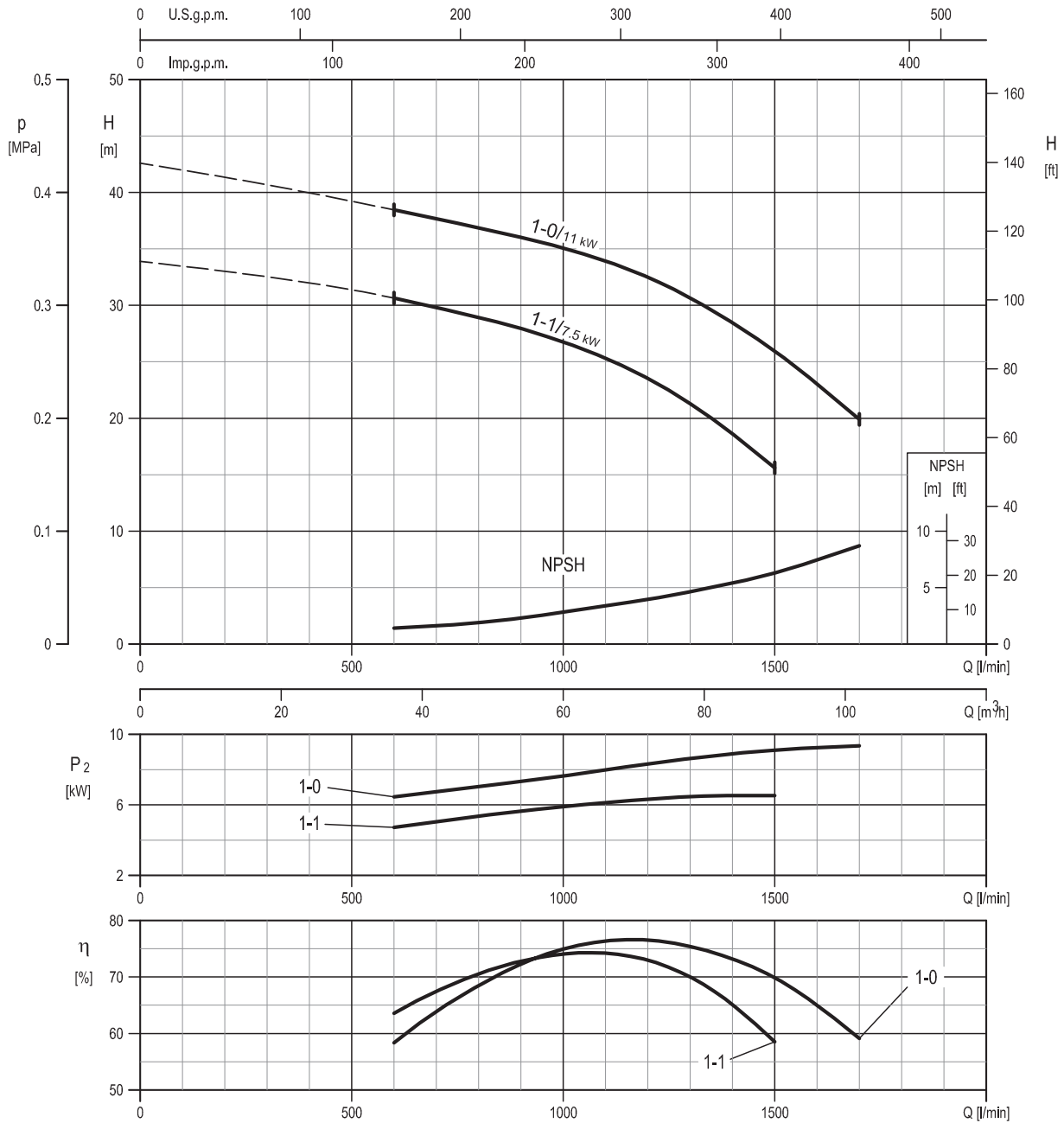
Pump Type	N°																												
	5-2	11	21	21-1	39-1	43-2	43-3	43-4	44-1	52-1	53	56	70-1	81	107	120-4	120-5	120-7	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3
EVM(L)64 1-1F6/7.5	1	/	/	1	/	/	/	/	/	/	1	1	/	1	1	/	/	/	/	/	/	/	/	1	/	/	1	1	1
EVM(L)64 1-0F6/11	1	1	1	/	1	/	/	/	/	/	1	1	1	1	1	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)64 2-2F6/15	2	1	/	2	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)64 2-1F6/18.5	2	1	1	1	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)64 2-0F6/22	2	1	2	/	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)64 3-3F6/22	3	1	/	3	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVM(L)64 3-2F6/30	3	1	1	2	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)64 3-1F6/30	3	1	2	1	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)64 3-0F6/30	3	1	3	/	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)64 4-3F6/30	4	1	1	3	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)64 4-2F6/37	4	1	2	2	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVM(L)64 4-1F6/37	4	1	3	1	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/

BEARINGS EVM(L)64

Pump Type	N° 56
EVM(L)64 1-1F6/7.5	6310 ZZ C3
EVM(L)64 1-0F6/11	6313 ZZ C3
EVM(L)64 2-2F6/15	6313 ZZ C3
EVM(L)64 2-1F6/18.5	6313 ZZ C3
EVM(L)64 2-0F6/22	6315 ZZ C3
EVM(L)64 3-3F6/22	6315 ZZ C3
EVM(L)64 3-2F6/30	6315 ZZDT C3*
EVM(L)64 3-1F6/30	6315 ZZDT C3*
EVM(L)64 3-0F6/30	6315 ZZDT C3*
EVM(L)64 4-3F6/30	6315 ZZDT C3*
EVM(L)64 4-2F6/37	6315 ZZDT C3*
EVM(L)64 4-1F6/37	6315 ZZDT C3*

*DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

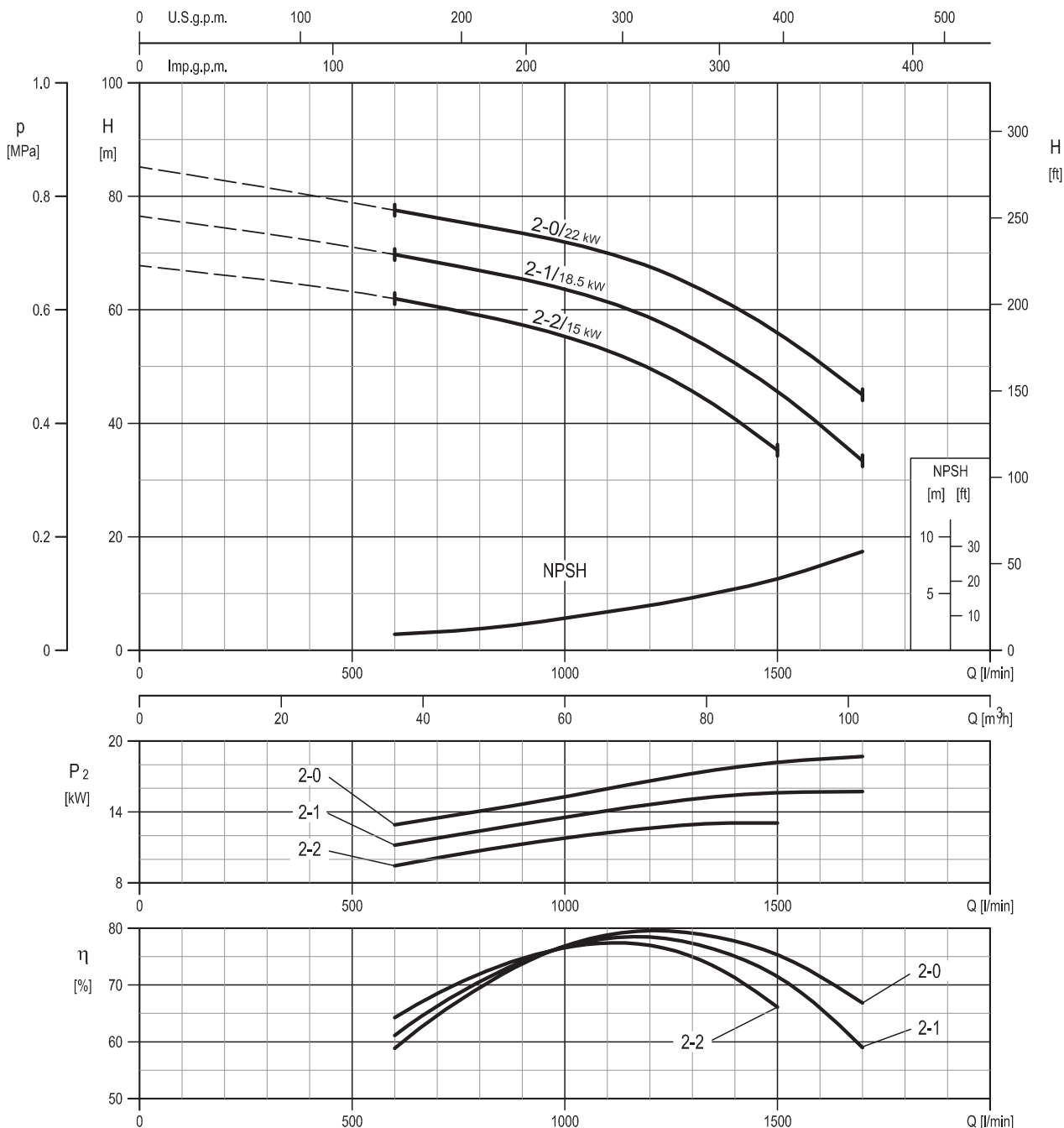
PERFORMANCE CURVE EVMG64



Rotation speed $\approx 3520 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

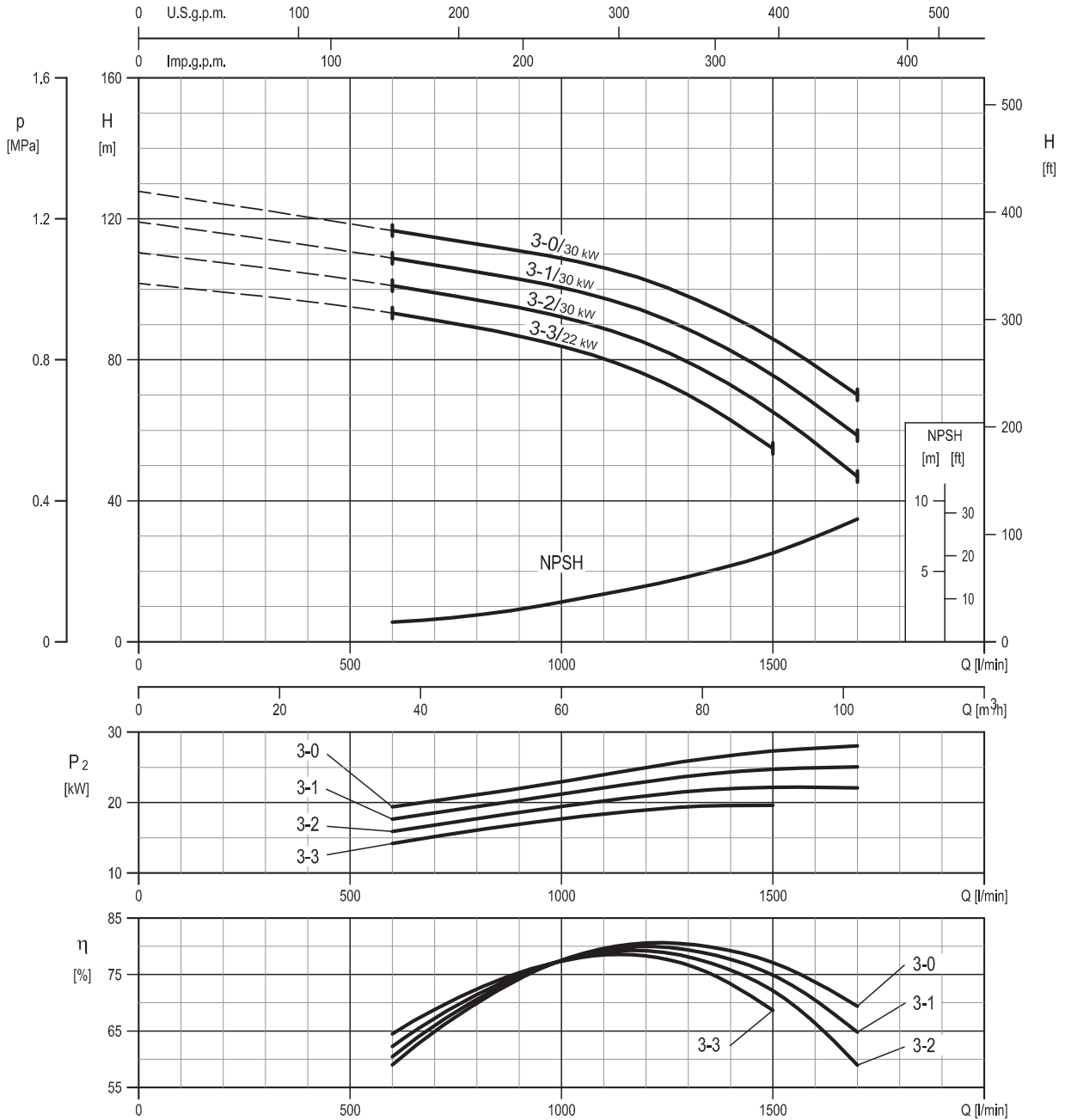
PERFORMANCE CURVE
EVMG64

EVMG64



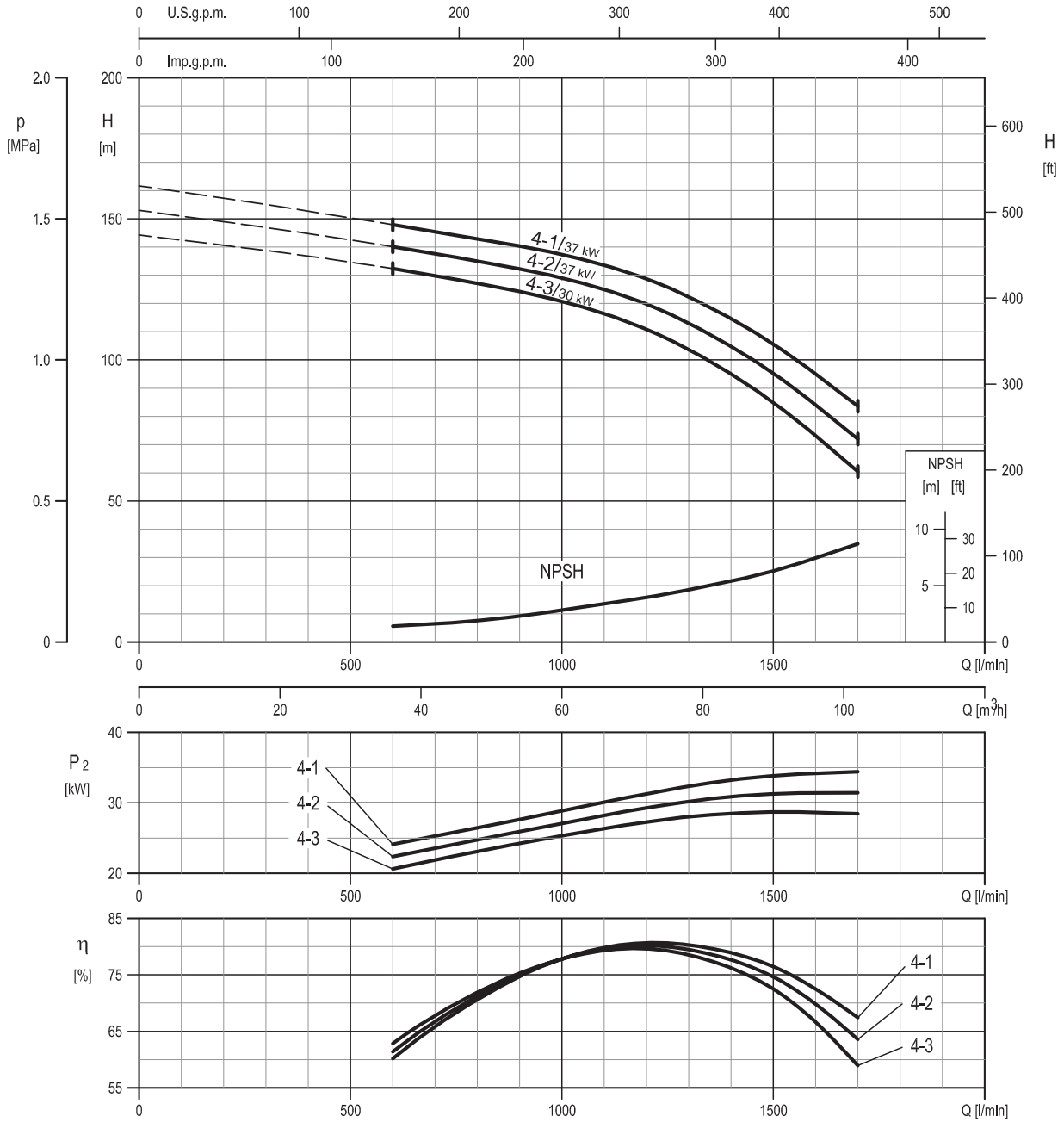
Rotation speed ≈3530 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

PERFORMANCE CURVE EVMG64



Rotation speed $\approx 3540 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 - Grade 3B

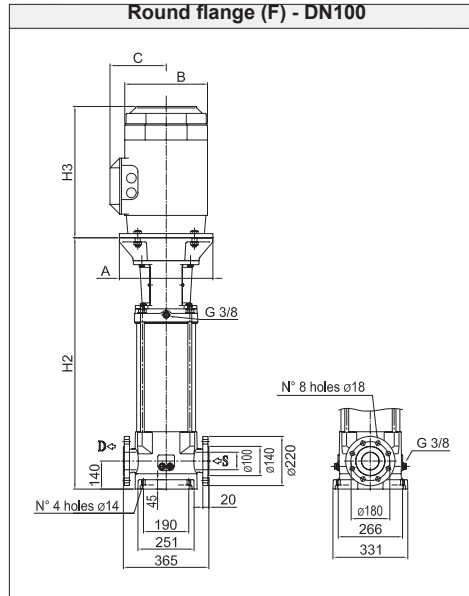
PERFORMANCE CURVE
EVMG64



Rotation speed $\approx 3540 \text{ min}^{-1}$
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA EVMG64

Dimensional sketch



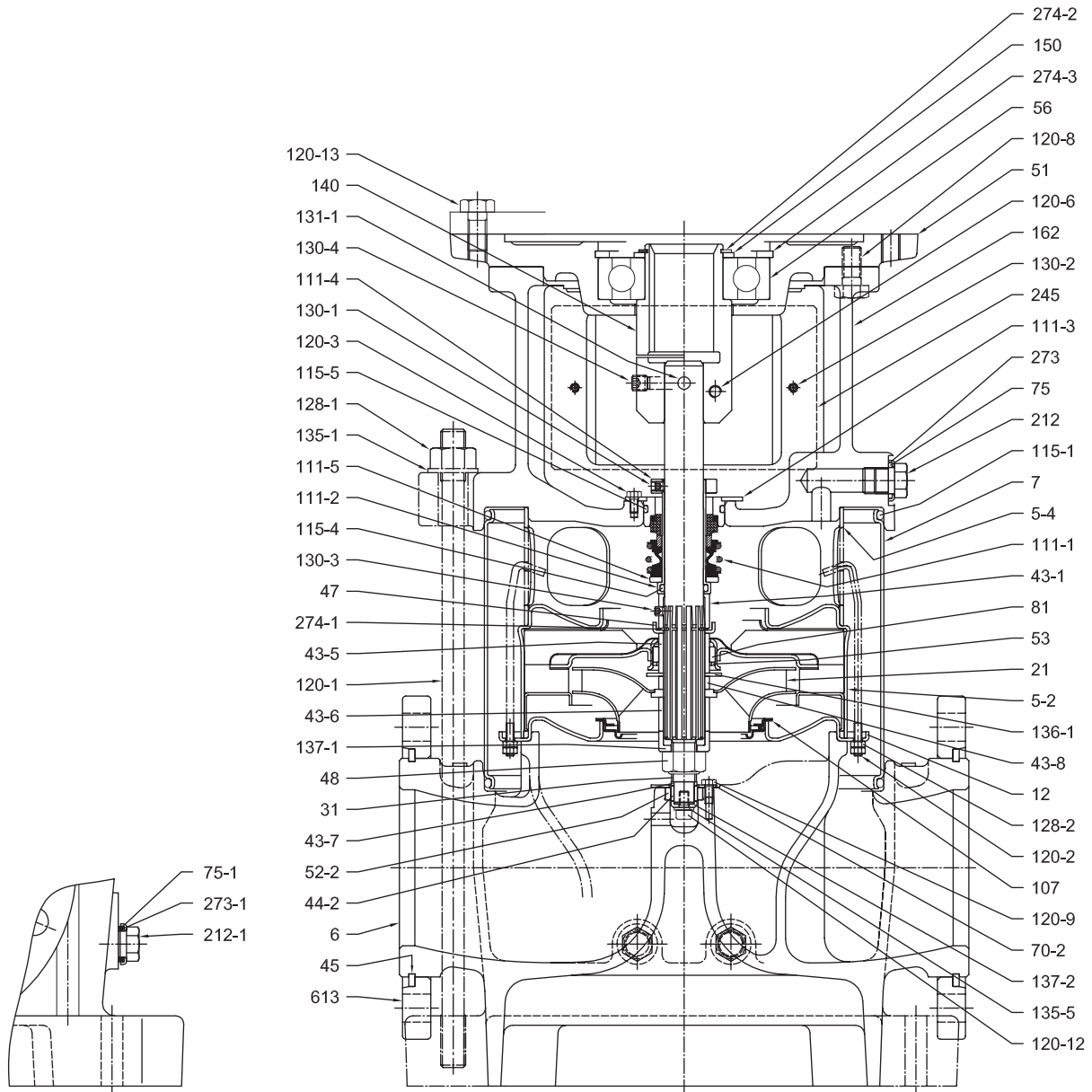
Dimensions [mm] and Weights [Kg]

Pump Type	P _{max} [MPa]	Motor						Round flange (F)		
		kW	Size	3 ~			H2	Weight Pump	Weight Pump + Motor	
				A	B	C				H3
EVMG64 1-1F6/7.5	1.6	7.5	132 S	ø300	225	160	350	546	70	110.4
EVMG64 1-0F6/11	1.6	11	160 M	ø350	248	194	476	677	77	139.5
EVMG64 2-2F6/15	1.6	15	160 M	ø350	317	238	498	749	81	169.9
EVMG64 2-1F6/18.5	1.6	18.5	160 L	ø350	317	238	542	749	94	198
EVMG64 2-0F6/22	1.6	22	180 M	ø350	360	268	577	749	94	257
EVMG64 3-3F6/22	1.6	22	180 M	ø350	360	268	577	821	99	262
EVMG64 3-2F6/30	1.6	30	200 L	ø400	399	300	658	837	99	327
EVMG64 3-1F6/30	1.6	30	200 L	ø400	399	300	658	837	99	327
EVMG64 3-0F6/30	1.6	30	200 L	ø400	399	300	658	837	99	327
EVMG64 4-3F6/30	1.6	30	200 L	ø400	399	300	658	909	108	336
EVMG64 4-2F6/37	1.6	37	200 L	ø400	399	300	658	909	108	350
EVMG64 4-1F6/37	1.6	37	200 L	ø400	399	300	658	909	108	350

1.6 MPa=16 bar

SECTIONAL VIEW
EVMG64

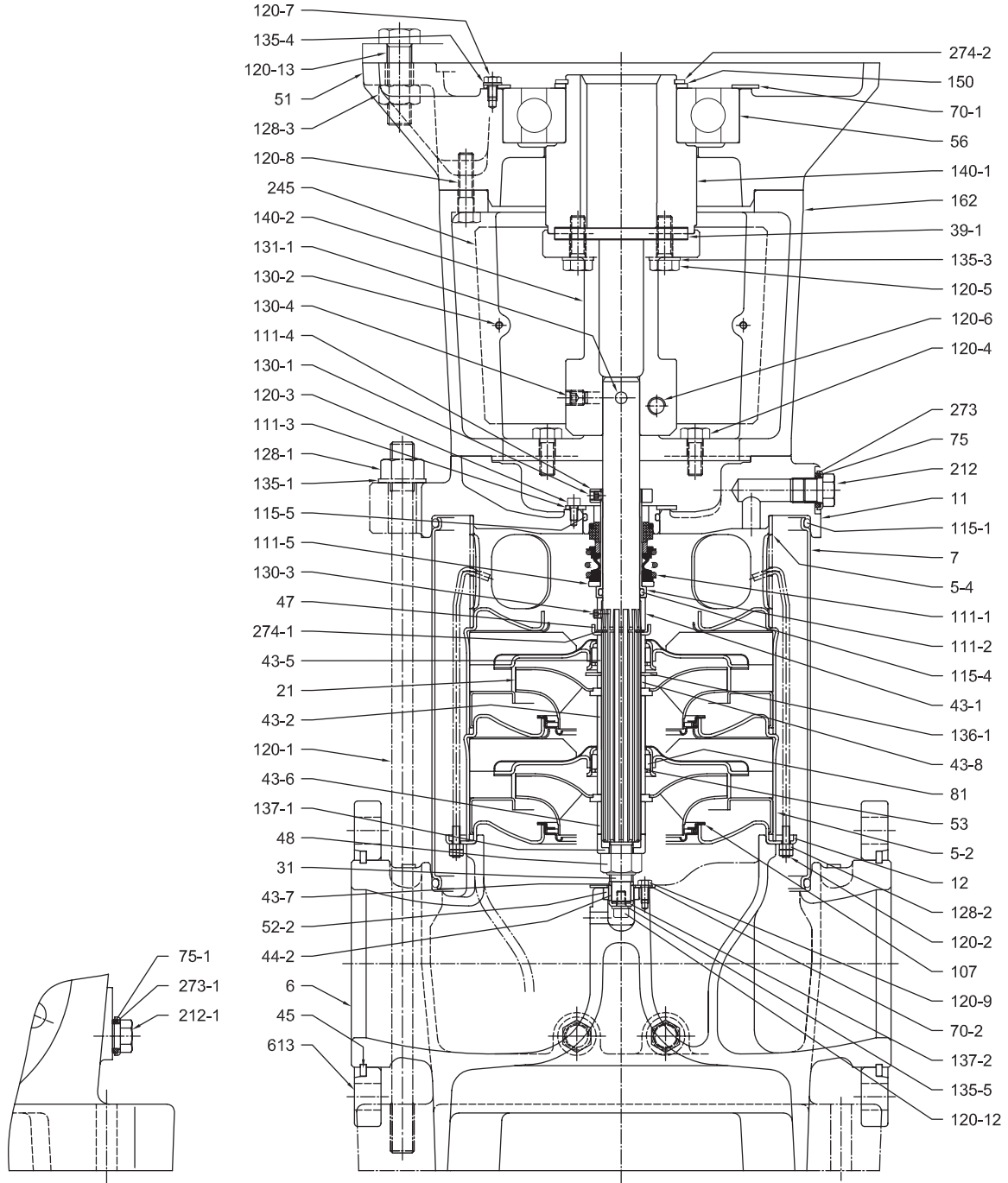
EVMG64



Pump with single ball bearing

SECTIONAL VIEW EVMG64

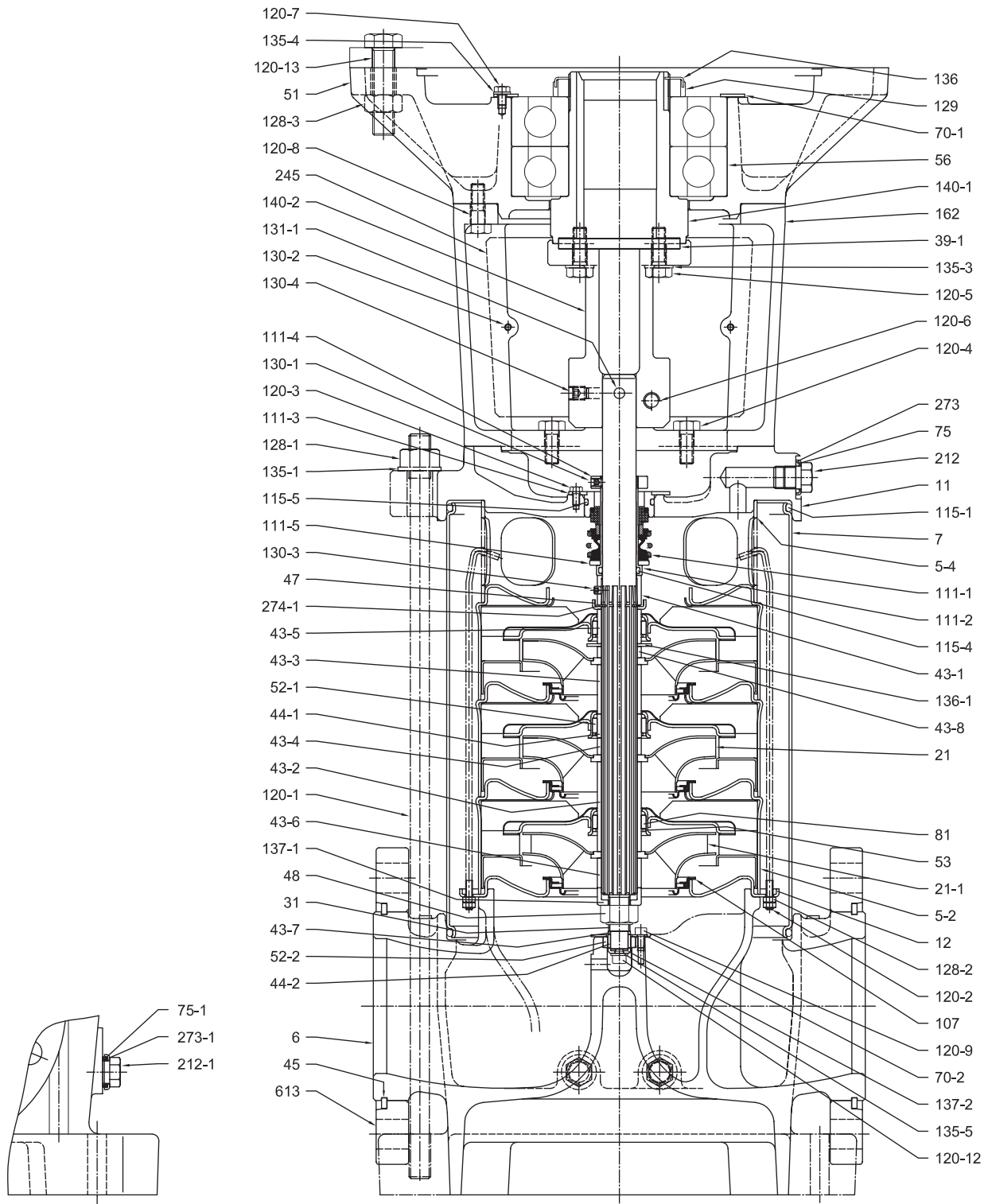
EVMG64



Pump with single ball bearing

SECTIONAL VIEW
EVMG64

EVMG64



Pump with double ball bearing

SECTIONAL TABLE EVMG64

N°	PART NAME	MATERIAL EVMG	DIMENSIONS	STANDARD
5-2	Intermediate casing	EN 1.4301 (AISI 304)		
5-4	Discharge casing	EN 1.4301 (AISI 304)		
6	Bottom casing	Cast iron EN GJL-250- EN 1561		
7	Outer casing	EN 1.4301 (AISI 304)		
11	Casing cover	Cast iron EN GJL-250- EN 1561		
12	Suction cover	EN 1.4301 (AISI 304)		
21	Impeller			
21-1	Reduced impeller	EN 1.4301 (AISI 304)		
31	Shaft	EN 1.4404 (AISI 316L)		
39-1	Key	Carbon steel	12X8X90	UNI 6604
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)		
43-2	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)		
43-6	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)		
43-7	Shaft sleeve	EN 1.4301 (AISI 304)		
43-8	Shaft sleeve (discharge-lower)	EN 1.4301 (AISI 304)		
44-1	Shaft sleeve bearing	Tungsten carbide		
44-2	Bearing sleeve (bottom bearing)	Tungsten carbide		
45	Flange holder	EN 1.402 (AISI 420)		
47	Ring Holder	EN 1.4301 (AISI 304)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M16	
51	Motor adapter	Cast iron EN-GJL-200-EN 1561		
52-1	Bearing	Tungsten carbide		
52-2	Bearing	Tungsten carbide		
53	Bush holder	EN 1.4301 (AISI 304)		
56	Ball bearing	see table page 381		
70-1	Ring for bearing	EN 1.4301 (AISI 304)		
70-2	Ring for bearing	EN 1.4301 (AISI 304)		
75	O-Ring (plug)	EPDM		
75-1	O-Ring (plug)	EPDM		
81	Bush	PTFE		
107	Liner ring	PTFE / EN 1.4401 (AISI 316)		
111-1	Mechanical Seal	Silicon carbide / Carbon /FPM		
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)		
111-4	Seal holder	Brass OT 58 UNI 5705		
111-5	Adjusting ring	EN 1.4301 (AISI 304)		
115-1	O-Ring (outer casing)	EPDM	Ø240.66X5.34	
115-4	O-Ring (cartridge sleeve)	EPDM	Ø24.99X3.53	
115-5	O-Ring (seal cover)	EPDM	Ø44.04X3.53	
120-1	Tie-rod	Galvanized steel 6.8 Strenght class ISO 898/1		
120-2	Tie-rod	EN 1.4301 (AISI 304)		
120-3	Screw	A2-70 UNI 7323	M5X10	UNI 5931
120-4	Screw	Galvanized steel 8.8 Strenght class ISO 898/1	M10X25	UNI 5739
120-5	Screw for coupling	Galvanized steel 8.8 Strenght class ISO 898/1	M10X30	UNI 5739
120-6	Screw for coupling	EVM64 1-1 EVM64 1-0 and higher	M 8X20	UNI 5931
120-7	Screw	Galvanized steel 8.8 Strenght class ISO 898/1	M12X30	UNI 5931
120-8	Screw	EVM 64 1-0 to 4-3 EVM64 1-1	M 6X10	UNI 5739
120-9	Screw	EVM64 1-1 EVM, EVMG	M10X30	UNI 5739
120-12	Screw	EN 1.4301 (AISI 304)	M12X35	UNI 5739
120-13	Screw	EVM64 1-1 EVM64 4-1, 4-2 EVM64 1-0 to 4-3	M5X8	UNI 5737
128-1	Nut for tie rod	Galvanized steel	M5X8	UNI 5739
128-2	Nut	Carbon steel	M5X8	UNI 5739
128-3	Nut	Galvanized steel	M6X20	UNI 5931
129	Lock nut	Carbon steel	M12X30	UNI 5739
130-1	Set screw	A2-70 UNI 7323	M16X55	UNI 5737
130-2	Screw for coupling guard	A2-70 UNI 7323	M16X65	UNI 5739
130-3	Set screw	EN 1.4301 (AISI 304)	M16	UNI 5588
130-4	Set screw	Galvanized steel	M16X65	UNI 5739
131-1	Pin for shaft	Carbon steel	M16	UNI 5588
135-1	Washer	Galvanized steel	M5	UNI 5588
135-3	Washer	Galvanized steel	M16	UNI 5588
135-4	Washer	Plated carbon steel	M6X8	UNI 5923
135-5	Washer	EN 1.4301 (AISI 304)	M5X6	UNI 7687
136	Bearing washer	Carbon steel	M6X6	UNI 5923
136-1	Stopper ring	EN 1.4301 (AISI 304)	M10X10	UNI 5923
137-1	Impeller spacer	EN 1.4301 (AISI 304)	17x30x3	UNI 6592
137-2	Shaft spacer	EN 1.4301 (AISI 304)	10.5X17.5X2.2	UNI 1751
140	Coupling	Brass OT 58 UNI 5705	6.4	UNI 1751
140-1	Motor coupling	Carbon steel	Ø6	
140-2	Coupling (pump side)	Carbon steel		
150	Spacer	Carbon steel		
162	Motor bracket	Cast iron EN-GJL-200-EN 1561		
212	Plug	EN 1.4301 (AISI 304)		
212-1	Plug	EN 1.4301 (AISI 304)		
245	Coupling guard	EN 1.4301 (AISI 304)		
273	Plug Washer	EN 1.4301 (AISI 304)		
273-1	Plug Washer	EN 1.4301 (AISI 304)		
274-1	C-type snap ring	EN 1.4301 (AISI 304)	Ø26	UNI 7435
274-2	C-type snap ring	EVM64 1-1 EVM64 1-0 to 2-2 EVM64 2-0, 3-3	Ø50	UNI 7435
274-3	C-type snap ring	Carbon steel TC80	Ø65	UNI 7435
613	Flange	Carbon steel	Ø75	UNI 7535
			Ø110	UNI 7437

QUANTITY FOR MODEL EVMG64

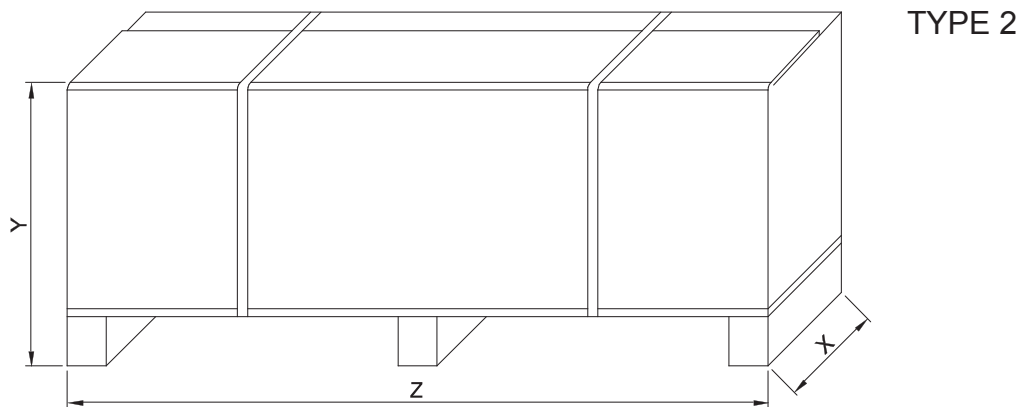
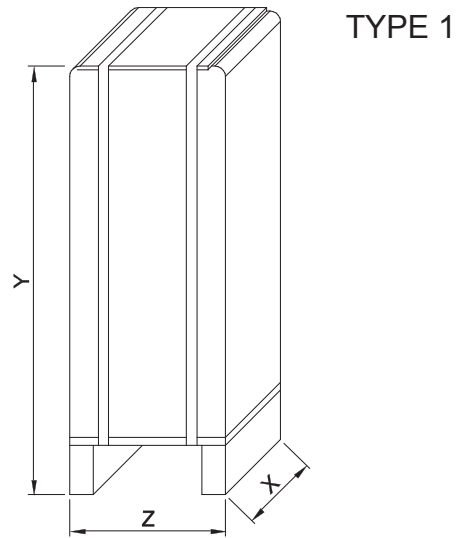
Pump Type	N°																												
	5-2	11	21	21-1	39-1	43-2	43-3	43-4	44-1	52-1	53	56	70-1	81	107	120-4	120-5	120-7	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3
EVMG64 1-1F6/7.5	1	/	/	1	/	/	/	/	/	/	1	1	/	1	1	/	/	/	/	/	/	/	/	1	/	/	1	1	1
EVMG64 1-0F6/11	1	1	1	/	1	/	/	/	/	/	1	1	1	1	1	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG64 2-2F6/15	2	1	/	2	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG64 2-1F6/18.5	2	1	1	1	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG64 2-0F6/22	2	1	2	/	1	1	/	/	/	/	2	1	1	2	2	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG64 3-3F6/22	3	1	/	3	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	/	4	3	/	/	1	1	1	1	/
EVMG64 3-2F6/30	3	1	1	2	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG64 3-1F6/30	3	1	2	1	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG64 3-0F6/30	3	1	3	/	1	2	/	/	/	/	3	1	1	3	3	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG64 4-3F6/30	4	1	1	3	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG64 4-2F6/37	4	1	2	2	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/
EVMG64 4-1F6/37	4	1	3	1	1	2	1	1	1	1	4	1	1	3	4	4	4	3	4	1	4	3	1	/	1	1	/	/	/

BEARINGS EVMG64

Pump Type	N° 56
EVMG64 1-1F6/7.5	6310 ZZ C3
EVMG64 1-0F6/11	6313 ZZ C3
EVMG64 2-2F6/15	6313 ZZ C3
EVMG64 2-1F6/18.5	6313 ZZ C3
EVMG64 2-0F6/22	6315 ZZ C3
EVMG64 3-3F6/22	6315 ZZ C3
EVMG64 3-2F6/30	6315 ZZDT C3*
EVMG64 3-1F6/30	6315 ZZDT C3*
EVMG64 3-0F6/30	6315 ZZDT C3*
EVMG64 4-3F6/30	6315 ZZDT C3*
EVMG64 4-2F6/37	6315 ZZDT C3*
EVMG64 4-1F6/37	6315 ZZDT C3*

*DT= Two single row deep groove ball bearings matched for paired mounting in a tandem arrangement.

PACKING DRAWING EVM(.).32-45-64



PACKING DATA EVM(.)32-45-64

Pump Type	Pumps						Pumps with motor ~3						
	Packing [mm]			Weight + Packing [kg]		Pack-type	Packing [mm]			Weight + Packing [kg]		Pack-type	
	X	Y	Z	EVMS(L)	EVMSG		X	Y	Z	EVMS(L)	EVMSG		
32	EVM(.)32 1-0F6/4.0	400	780	400	61	66	1	400	1047	400	97	102	1
	EVM(.)32 2-2F6/5.5	400	780	400	65	71	1	400	1047	400	106	111	1
	EVM(.)32 2-0F6/7.5	400	780	400	68	73	1	400	1047	400	109	115	1
	EVM(.)32 3-3F6/7.5	400	780	400	72	79	1	400	1047	400	113	121	1
	EVM(.)32 3-0F6/11	400	1047	400	84	91	1	500	545	1350	154	161	2
	EVM(.)32 4-3F6/11	400	1047	400	87	94	1	500	545	1350	157	164	2
	EVM(.)32 4-0F6/15	400	1047	400	87	94	1	500	545	1350	182	189	2
	EVM(.)32 5-3F6/15	400	1047	400	94	103	1	500	540	1540	189	198	2
	EVM(.)32 5-2F6/15	400	1047	400	94	103	1	500	540	1540	189	198	2
	EVM(.)32 5-0F6/18.5	400	1047	400	97	103	1	500	540	1540	199	208	2
	EVM(.)32 6-3F6/18.5	400	1047	400	97	106	1	500	540	1540	202	211	2
	EVM(.)32 6-0F6/22	400	1047	400	97	106	1	610	593	1750	249	258	2
	EVM(.)32 7-3F6/22	400	1047	400	110	119	1	610	593	1750	262	271	2
	EVM(.)32 7-2F6/22	400	1047	400	110	119	1	610	593	1750	262	271	2
	EVM(.)32 7-0F6/30	480	1147	480	116	125	1	610	593	1750	315	324	2
	EVM(.)32 8-3F6/30	480	1147	480	115	125	1	610	593	1750	314	324	2
	EVM(.)32 8-0F6/30	480	1147	480	115	125	1	610	593	1750	314	324	2
	EVM(.)32 9-3F6/30	480	1297	480	125	135	1	610	593	1750	317	327	2
EVM(.)32 9-0F6/30	480	1297	480	125	135	1	610	593	1750	317	327	2	
EVM(.)32 10-4F6/30	480	1297	480	124	135	1	635	607	2130	377	388	2	
45	EVM(.)45 1-1F6/5.5	400	780	400	62	69	1	400	1047	400	102	95	1
	EVM(.)45 1-0F6/7.5	400	780	400	64	71	1	400	1047	400	106	109	1
	EVM(.)45 2-2F6/11	400	1047	400	68	75	1	500	545	1350	138	134	2
	EVM(.)45 2-1F6/11	400	1047	400	68	75	1	500	545	1350	138	134	2
	EVM(.)45 2-0F6/15	400	1047	400	68	75	1	500	545	1350	163	170	2
	EVM(.)45 3-3F6/15	400	1047	400	72	81	1	500	540	1540	167	176	2
	EVM(.)45 3-2F6/15	400	1047	400	72	81	1	500	540	1540	167	176	2
	EVM(.)45 3-1F6/18.5	400	1047	400	72	81	1	500	540	1540	177	186	2
	EVM(.)45 3-0F6/22	400	1047	400	82	91	1	500	540	1540	227	236	2
	EVM(.)45 4-3F6/18.5	400	1047	400	74	84	1	500	540	1540	179	189	2
	EVM(.)45 4-2F6/22	400	1047	400	84	94	1	610	593	1750	236	146	2
	EVM(.)45 4-1F6/30	480	1147	480	87	97	1	610	593	1750	286	296	2
	EVM(.)45 4-0F6/30	480	1147	480	87	97	1	610	593	1750	286	296	2
	EVM(.)45 5-3F6/30	480	1147	480	104	116	1	610	593	1750	303	315	2
	EVM(.)45 5-2F6/30	480	1147	480	104	116	1	610	593	1750	303	315	2
	EVM(.)45 5-1F6/30	480	1147	480	104	116	1	610	593	1750	303	315	2
	EVM(.)45 5-0F6/37	480	1147	480	104	116	1	610	593	1750	317	329	2
	EVM(.)45 6-3F6/37	480	1297	480	103	116	1	635	607	2130	370	383	2
EVM(.)45 6-2F6/37	480	1297	480	103	116	1	635	607	2130	370	383	2	
EVM(.)45 6-1F6/37	480	1297	480	103	116	1	635	607	2130	370	383	2	
64	EVM(.)64 1-1F6/7.5	400	780	400	79	86	1	400	1047	400	121	127	1
	EVM(.)64 1-0F6/11	400	1047	400	77	84	1	500	545	1350	147	154	2
	EVM(.)64 2-2F6/15	400	1047	400	91	98	1	500	545	1350	186	194	2
	EVM(.)64 2-1F6/18.5	400	1047	400	92	100	1	500	540	1540	197	206	2
	EVM(.)64 2-0F6/22	400	1047	400	102	110	1	610	593	1750	254	262	2
	EVM(.)64 3-3F6/22	400	1047	400	107	116	1	610	593	1750	259	268	2
	EVM(.)64 3-2F6/30	480	1147	480	110	119	1	610	593	1750	309	318	2
	EVM(.)64 3-1F6/30	480	1147	480	110	119	1	610	593	1750	309	318	2
	EVM(.)64 3-0F6/30	480	1147	480	110	119	1	610	593	1750	309	318	2
	EVM(.)64 4-3F6/30	480	1147	480	117	128	1	610	593	1750	316	327	2
	EVM(.)64 4-2F6/37	480	1147	480	117	128	1	610	593	1750	330	341	2
	EVM(.)64 4-1F6/37	480	1147	480	117	128	1	610	593	1750	330	341	2

MOTOR

VERTICAL MULTISTAGE PUMPS

GENERAL

Various regulatory authorities in many countries have introduced or are planning legislation to encourage the manufacture and use of higher efficiency motors, as part of a concerted effort worldwide to reduce energy consumption. **IEC 60034-30** defines new efficiency classes for motors and harmonizes the currently different requirements for induction motor efficiency levels around the world.

	MOTOR EVMS	MOTOR EVM
Power Source	Frequency	60 Hz
	Phase	Three Phase
	Rotation speed	≈ 3500 min ⁻¹
	Power rating	0.37 ÷ 2.2 kW 0.5 ÷ 3.0 HP
	Voltage	220/380 V - 5% /+ 10% and 265/460 V ± 10% (0.37 and 0.55 kW) 220/380-460 V - 5% /+ 10% (from 0.75 kW up to 4 kW) 380-460/660 V - 5% /+ 10% (from 5.5 up to 11 kW) 460 V ± 10% and 380/660 V - 5% /+ 10% (15 and 18.5 kW)
Type	Type	TEFC
	Efficiency Level	- : from 0.37 up to 0.55 kW IE3* : above 0.75 kW IE2 : from 15 kW up to 18.5 kW
	No° of poles	2
	Protection degree	IP 55
	Insulation Class	F (temperature rise class B)
Others	Thermal Protection	PTC is available for the above 1.5 kW included
	Casing Material	Aluminium
	Flange mount (IEC motor)	IM B14 (up to 4.0 kW) IM B5 (above 5.5 kW)
	Terminal Box fixing	Unlosable screw and sealing from 0.75 kW to 11 kW

* : IE2 from 1.1 kW up to 3.0 kW at 220/380 V

NOISE DATA

Motor Size	Power		Noise LpA - dB (A) *
	[kW]	[HP]	
71	0.37	0.5	<70
	0.55	0.75	
80	0.75	1	57
	1.1	1.5	
90	1.5	2	65
	2.2	3	
100	3.0	4	67
112	4.0	5.5	71
132	5.5	7.5	73
	7.5	10	
160	11	15	78
160 M	15	20	79
160 L	18.5	25	
180 M	22	30	82
200 L	30	40	83
	37	50	

* Noise values were measured with a tolerance of ± 2.5 dB (A).

TECHNICAL MOTOR DATA EVMS 1-3-5-10-15-20

- Three Phase Motor at 60Hz, 2 poles

Motor			Efficiency	Load efficiency and power-factor				Full load current [A]				Locked rotor current [A]			
Motor Size	Power			50%	η, %		cos-φ 100%	220 V	265 V	380 V	460 V	220 V	265 V	380 V	460 V
	[kW]	[HP]			75%	100%									
71	0.37	0.5	-	-	-	67.7	0.72	2.1	1.7	1.2	1.0	8.8	9.6	5.1	5.6
71	0.55	0.75	-	-	-	72.4	0.72	2.9	2.4	1.7	1.4	12.7	15.1	7.3	8.7

IE2-IE3 Three Phase Motor at 60Hz, 2 poles

Motor			Efficiency	Load efficiency and power-factor (460 V)				Full load current [A]				Locked rotor current [A]			
Motor Size	Power			50%	η, %		cos-φ 100%	220 V	380 V	460 V	660 V	220 V	380 V	460 V	660 V
	[kW]	[HP]			75%	100%									
80	0.75	1	IE3	77.4	81.9	83.1	0.74	2.8	1.6	1.5	-	16.9	9.7	11.8	-
	1.1	1.5	IE3 *	82.4	84.2	84.5	0.75	4.0	2.3	2.2	-	24.6	14.2	17.2	-
90	1.5	2	IE3 *	83.2	84.7	85.7	0.76	5.3	3.1	2.9	-	36.3	21.0	25.4	-
	2.2	3	IE3 *	86.9	87.8	87.4	0.76	7.5	4.3	4.1	-	51.5	29.7	36.0	-
100	3.0	4	IE3 *	87.0	87.9	88.5	0.76	10.2	5.9	5.6	-	72.4	41.8	50.6	-
112	4.0	5.5	IE3	88.7	88.9	88.5	0.75	13.5	7.8	7.6	-	107.1	61.8	74.9	-
132	5.5	7.5	IE3	88.7	90.5	91.0	0.85	-	10.1	8.9	5.8	-	94.5	114.3	66.0
	7.5	10	IE3	88.1	90.3	90.8	0.88	-	13.6	11.9	7.8	-	118.0	143.0	82.6
160	11	15	IE3	88.9	91.4	91.3	0.82	-	20.3	18.5	11.7	-	153.0	185.0	106.8
160 M	15	20	IE2	90.9	92.3	91.8	0.89	-	28.1	23.3	16.2	-	272.2	226.0	157.6
160 L	18.5	25	IE2	90.3	92.0	91.6	0.88	-	34.7	28.8	20.1	-	409.5	340.0	237.1

♦ MOTOR DATA ETM

* ONLY FOR 460 V

TECHNICAL MOTOR DATA EVM 32-45-64

IE2 Three Phase Motor at 60Hz, 2 poles

Motor Size	Motor Power		Efficiency	Load efficiency and power-factor				Full load current [A]					Locked rotor current [A]				
	[kW]	[HP]		η %			cos-φ	220 V	265 V	380 V	460 V	660 V	220 V	265 V	380 V	460 V	660 V
112 M	4.0	5.5	IE2	86.4	87.8	87.5	0.80	15.1	12.5	8.7	7.2	5.0	180.4	149.8	104.2	86.5	60.3
132 S	5.5	7.5	IE2	85.0	88.6	88.5	0.87	-	-	10.7	8.9	6.2	-	-	131.3	109	76.0
132 S	7.5	10	IE2	87.8	89.5	89.7	0.88	-	-	14.5	12	8	-	-	171.0	142	99.0
160 M	11	15	IE2	88.6	90.4	90.7	0.89	-	-	20.7	17.2	12.0	-	-	198.8	165	115.1
160 M	15	20	IE2	90.9	92.3	91.8	0.89	-	-	28.1	23.3	16.2	-	-	272.2	226	157.6
160 L	18.5	25	IE2	90.3	92.0	91.6	0.88	-	-	34.7	28.8	20.1	-	-	409.5	340	237.1
180 M	22	30	IE2	91.8	92.6	92.5	0.88	-	-	41.2	34	23.7	-	-	417.6	345	240.5
200 L	30	40	IE2	92.7	94.0	94.2	0.87	-	-	55.7	46	32.1	-	-	496.3	410	285.8
200 L	37	50	IE2	93.0	94.3	94.5	0.88	-	-	66.6	55	38.3	-	-	568.9	470	327.6



EBARA Pumps Europe S.p.A.

Via Pacinotti, 32
36040 Brendola (Vicenza), Italia
Tel. +39 0444 706811
Fax +39 0444 405811
ebara_pumps@ebaraeurope.com
www.ebaraeurope.com

EBARA Corporation

11-1, Haneda Asahi-cho, Ohta-ku,
Tokyo 144-8510
Japan
Tel +81 3 6275 7598
Fax +81 3 5736 3193
www.ebara.com

