



EVMSG

Vertical Multistage Pumps



**with unique low axial
thrust impeller design**

Any motor • Anywhere



Important Note: Text and Performance curves in Grey are not part of EPA Market range.

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PACKING DATA

PACKING DRAWING	300
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MOTOR DATA




TECHNICAL MOTOR DATA	400
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PRODUCT FEATURES

50 Hz

[General]

1. **Pump Type**
The EVMSG is a Non-self-priming, vertical multistage in line, centrifugal pump.
2. **Model range**
The EVMSG comes in **1,3,5,10,15 and 20 m3/h flow sizes** for the majority market needs.
3. **Maximum operating pressure**
The EVMSG can be operated **at 16 bar or 25 bar as maximum.**
4. **Operating temperature range**
The EVMSG can be operated **from -30 to +140** degrees celsius as the maximum.
5. **Material options**
AISI 304, AISI 316 and Cast iron versions are available.
6. **Motor**
The EVMSG can be coupled with IEC standard motors.
7. **Certifications**

	DM174/2004 	ACS 	KTW 
Drinking water approval			
<u>Mechanical seal</u>	SiC/Carbon_EPDM	SiC/Carbon_EPDM	SiC with graphite/SiC_EPDM
EVMSG		-	-
EVMS			%
EVMSL			%

Note: * KTW is certified for components.

Standard
% On request

8. Conform to the provisions of the European directives

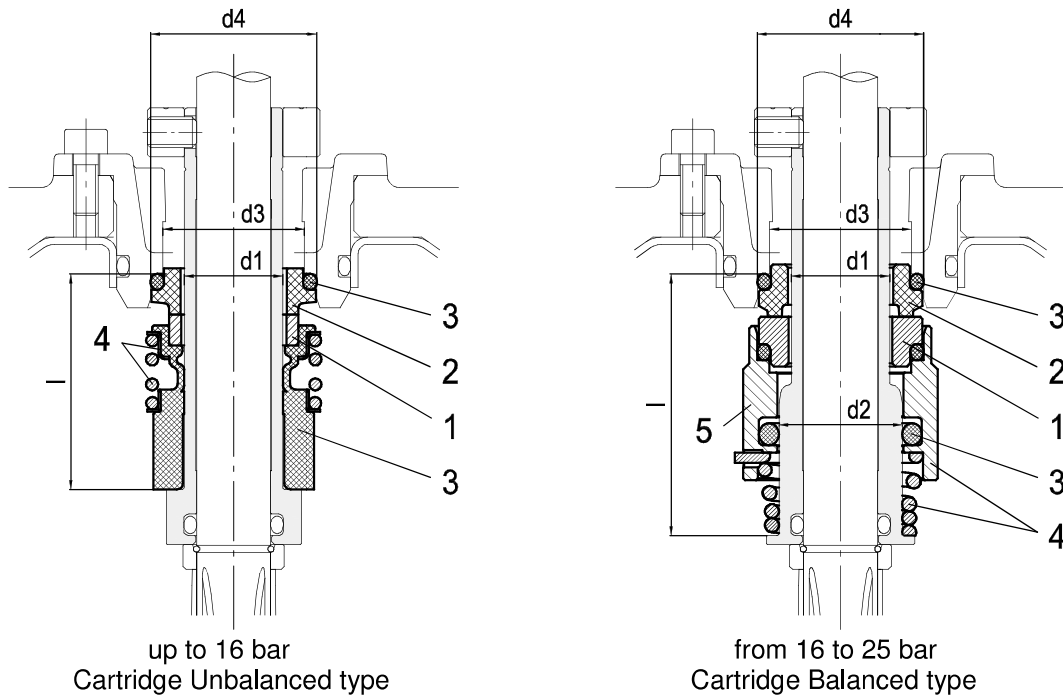


[Main Product Features]

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.**
 - **High pump efficiency** classified in MEI > 0.7 for all models.
2. **Energy saving**
 - **High efficiency E3 motors** starting from 0.75kW can be fitted as an option.
 - A **VFD (Variable frequency drive)** and **the commercial sensor** can be directly mounted on EVMSG 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

PUMP			
EVMSG			
Operating range	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)	
	Intermediate casing	EN 1.4301 (AISI 304)	
	Liner ring	EN 1.4301 (AISI 304) + PPS	
	Bottom casing	Cast Iron	
	Casing cover	EN 1.4301 (AISI 304)	
	Shaft	EN 1.4301 (AISI 304)	EVMSG 1-3-10 , EVMSG 5-15-20 (depend on models)
		EN 1.4462 (AISI 329A)	EVMSG 5-15-20 (depend on models)
	Shaft sleeve bearing	Tungsten carbide	
	Shaft Seal	See the shaft seal options	
	O-ring	EPDM	Standard
		FPM	Optional
	Outer casing	EN 1.4301 (AISI 304)	
	Motor Bracket	Cast Iron	
	Tie rod	Galvanized steel 6.8 strength class ISO 898/1	
Coupling	up to 4 kW	Die cast aluminium	
	from 5.5 kW	Cast Iron	
Base	Cast Iron		
Pipe connection	Oval flange	up to 16 bar Standard 1, 3, 5 & 10 models	
	Round flange (DIN)	up to 16 bar	Standard 15 & 20 models - Optional 1, 3, 5 & 10 models
		from 16 bar to 25 bar	Standard - All models

Motor		Standard In Australia (WEG W21 E2 motors)	Options available on request	
Power Source	Frequency	50 Hz		
	Phase	Three Phase	Single Phase (up to 3 kW)	
	Rotation Speed	~ 2900 min		
	Power Rating		0.37 ÷ 18.5 kW	
			0.5 ÷ 25 HP	
Voltage		230/400 ± 10% (up to 3 kW)		
		400/690 ± 10% (4.0 kW & above)		
Type	Type	Electric - TEFC	other enclosures on request	
	Efficiency	E2	E3 from 0.75 to 18.5 kW (3ph)	
	No. of poles	2		
	Protection Degree	IP 55	IP 56, IP 66	
	Insulation Class	F (temperature rise class B)	H (temperature rise class B)	
Others	Casing Material	Aluminium(up to 7.5 kW) / Cast Iron (11 kW & above)	Cast iron	
	Flange Mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (5.5 kW & above)		

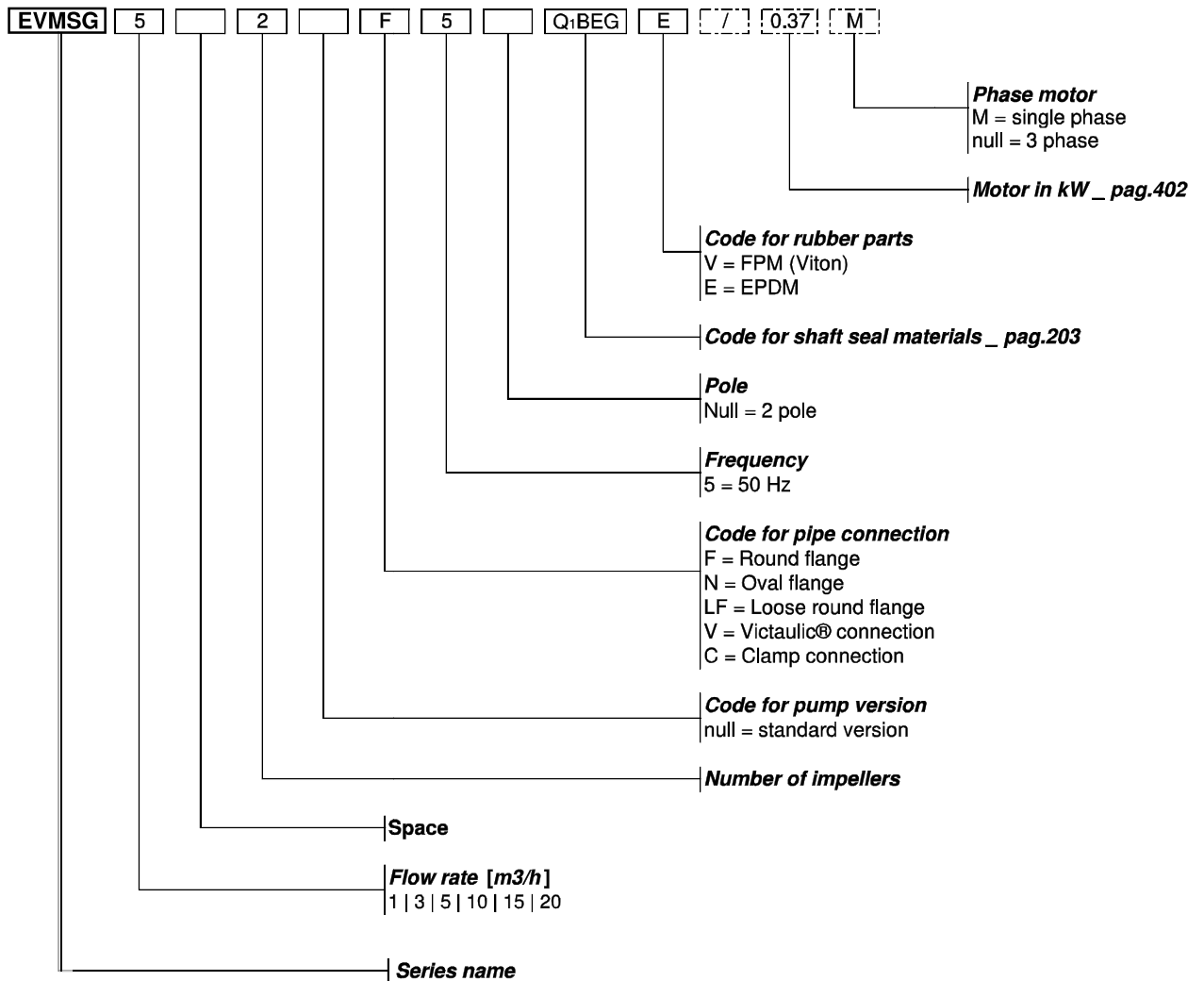


Legend: ● Standard ○ Options () Type key

Pump model	Max liquid temperature range	Shaft seal type Cartridge		Shaft seal material					Type key
		Unbalanced	Balanced	1 Rotating Part	2 Stationary Part	3 Elastomers	4 Spring	5 Collar	
up to 16 bar	- 30°C to + 120°C	●		SiC (Q)	Carbon (B)	EPDM (E)		AISI316 (G)	Q ₁ BEG
	- 30°C to + 80°C	○		SiC (Q)	Carbon (B)	FPM (V)		AISI316 (G)	Q ₁ BVG
	- 30°C to + 140°C		○	SiC with graphite (Q _g)	SiC (Q ₁)	EPDM (E)		AISI316 (G)	HQ _g Q ₁ EG
	- 30°C to + 80°C		○	SiC with graphite (Q _g)	SiC (Q ₁)	FPM (V)		AISI316 (G)	HQ _g Q ₁ VG
	- 30°C to + 140°C		○	SiC (Q ₁)	Carbon (B)	EPDM (E)		AISI316 (G)	HQ ₁ BEG
from 16 bar to 25 bar	- 30°C to + 140°C		●	SiC (Q ₁)	Carbon (B)	EPDM (E)		AISI316 (G)	HQ ₁ BEG
	- 30°C to + 80°C		○	SiC (Q ₁)	Carbon (B)	FPM (V)		AISI316 (G)	HQ ₁ BVG
	- 30°C to + 140°C		○	SiC with graphite (Q _g)	SiC (Q ₁)	EPDM (E)		AISI316 (G)	HQ _g Q ₁ EG
	- 30°C to + 80°C		○	SiC with graphite (Q _g)	SiC (Q ₁)	FPM (V)		AISI316 (G)	HQ _g Q ₁ VG

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

EVMSG1-3-5-10-15-20



Example for **pump without motor**
EVMSG5 2F5Q1BEGE

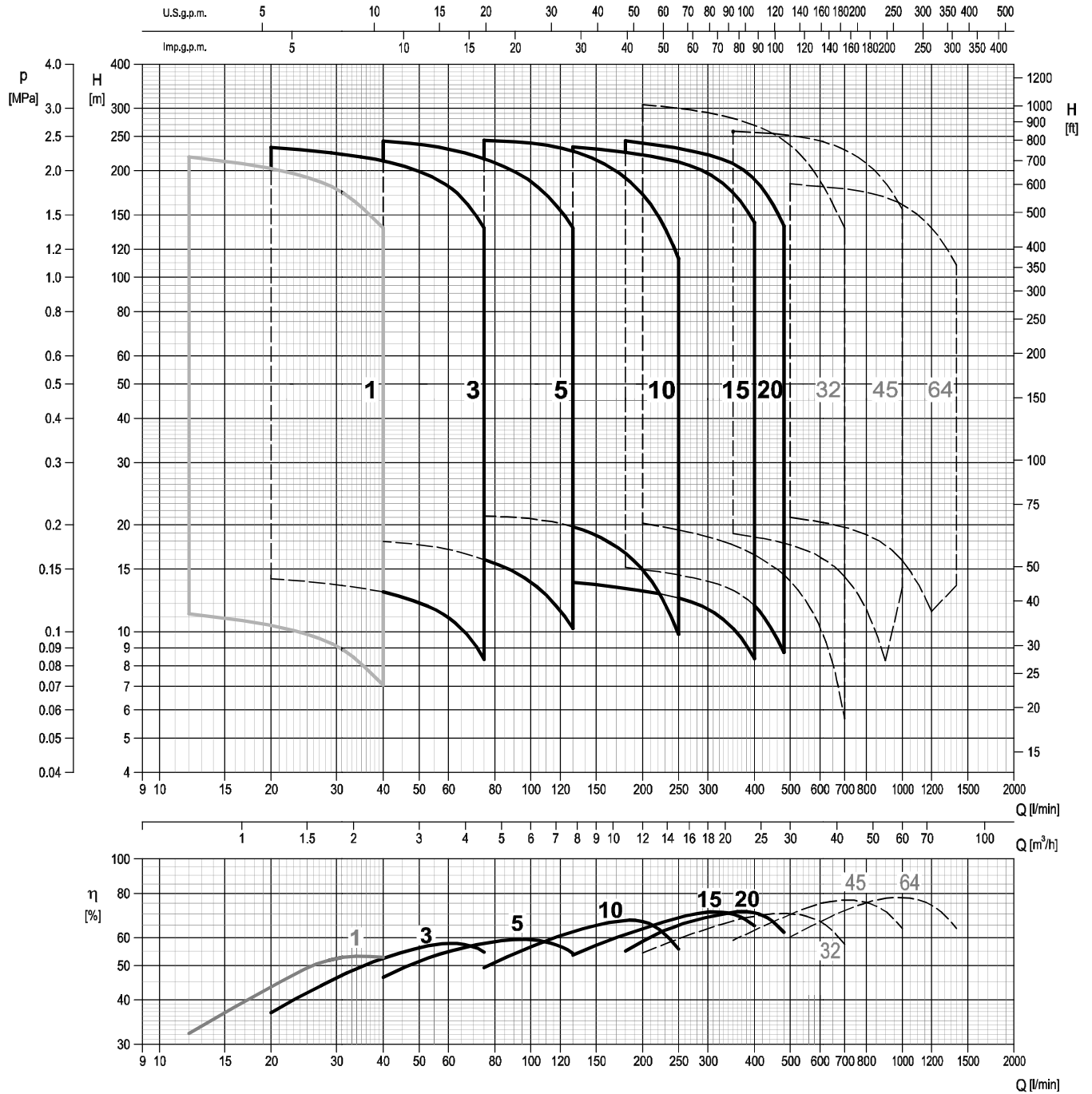
Example for **pump with motor**
EVMSG5 2F5Q1BEGE/0.37M

NAMEPLATE

[Redacted]		CE	
MADE IN ITALY			
TYPE	①		
○	Hmax	④	m
	Hmin	⑤	m
Q	②	l/min	H
	③		m
P2	⑥	KW	Hz
	⑧	min ⁻¹	⑨
HP	⑦	P/N ^o	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^o" Pump item number
- 11) "MEI" Index of the pump's quality in relation to its efficiency
- 12) "Hyd. Eff. " Hydraulic efficiency of the pump

EVMSG 1-3-5-10-15-20



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 50 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)
- h = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.

Minimum efficiency index (MEI)

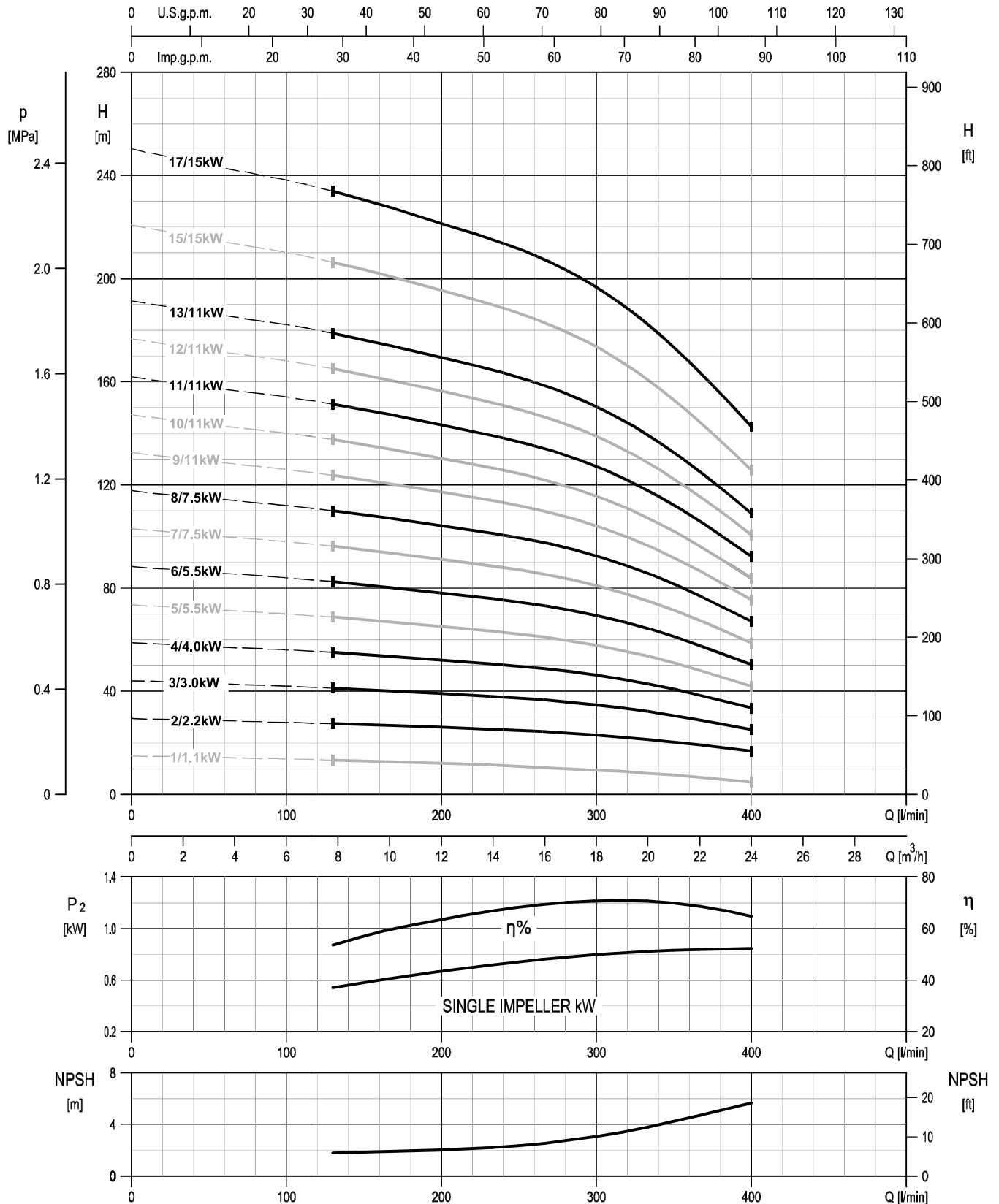
Pump type	MEI
EVMSG1	> 0.70
EVMSG3	> 0.70
EVMSG5	> 0.70
EVMSG10	> 0.70
EVMSG15	> 0.70
EVMSG20	> 0.70

EVMSG 10-15-20

	Pump Type		Motor			Maximum working pressure (MPa)	Q=Capacity														
							H=Total manometric head in meters														
	Single phase	Three phase	kW	HP	Size		0	75	100	130	150	180	200	250	300	350	400	450	480		
10	EVMSG10 2/0.75M	EVMSG10 2/0.75	0.75	1	80	21.8	21.2	20.8	19.7	18.7	16.6	14.9	9.8	-	-	-	-	-			
	EVMSG10 3/1.5M	EVMSG10 3/1.5	1.5	2	90 S	32.7	31.8	31.2	29.6	28.0	24.9	22.4	14.7	-	-	-	-	-			
	EVMSG10 4/2.2M	EVMSG10 4/2.2	2.2	3	90 L	43.6	42.4	41.7	39.5	37.3	33.2	29.8	19.6	-	-	-	-	-			
	EVMSG10 5/2.2M	EVMSG10 5/2.2	2.2	3	90 L	54.5	53	52	49.3	46.7	41.5	37.3	24.6	-	-	-	-	-			
	EVMSG10 6/2.2M	EVMSG10 6/2.2	2.2	3	90 L	65.5	63.5	62.5	59	56	50	45	29.5	-	-	-	-	-			
	-	EVMSG10 7/3.0	3.0	4	100 L	76.5	74	73	69	65.5	58	52	34.4	-	-	-	-	-			
	-	EVMSG10 8/3.0	3.0	4	100 L	87.0	84.5	83.5	79	74.5	66.5	59.5	39.3	-	-	-	-	-			
	-	EVMSG10 9/4.0	4.0	5.5	112 M	98	95.5	93.5	89	84	74.5	67	44	-	-	-	-	-			
	-	EVMSG10 10/4.0	4.0	5.5	112 M	109	106	104	98.5	93.5	83	74.5	49	-	-	-	-	-			
	-	EVMSG10 11/4.0	4.0	5.5	112 M	120	116	115	109	103	91.5	82	54	-	-	-	-	-			
	-	EVMSG10 12/5.5	5.5	7.5	132 S	131	127	125	118	112	99.5	89.5	59	-	-	-	-	-			
	-	EVMSG10 14/5.5	5.5	7.5	132 S	153	148	146	138	131	116	104	68.5	-	-	-	-	-			
	-	EVMSG10 15/5.5	5.5	7.5	132 S	163	159	156	148	140	124	112	73.5	-	-	-	-	-			
	-	EVMSG10 16/7.5	7.5	10	132 S	174	169	167	158	149	133	119	78.5	-	-	-	-	-			
	-	EVMSG10 18/7.5	7.5	10	132 S	196	191	187	178	168	149	134	88.5	-	-	-	-	-			
	-	EVMSG10 19/7.5	7.5	10	132 S	207	201	198	188	177	158	142	93.5	-	-	-	-	-			
	-	EVMSG10 21/7.5	7.5	10	132 S	229	222	219	207	196	174	157	103	-	-	-	-	-			
	-	EVMSG10 22/11	11	15	160 M	240	233	229	217	205	183	164	108	-	-	-	-	-			
-	EVMSG10 23/11	11	15	160 M	251	244	240	227	215	191	172	113	-	-	-	-	-				
15	EVMSG15 1/1.1M	EVMSG15 1/1.1	1.1	1.5	80	14.9	-	-	13.3	13	12.4	12.1	10.8	9.5	7.5	4.8	-	-			
	EVMSG15 2/2.2M	EVMSG15 2/2.2	2.2	3	90 L	29.5	-	-	27.5	27.1	26	26.1	24.9	23.1	20.4	16.8	-	-			
	-	EVMSG15 3/3.0	3.0	4	100 L	44.5	-	-	41.5	40.5	39.7	39.1	37.3	34.7	30.6	25.2	-	-			
	-	EVMSG15 4/4.0	4.0	5.5	112 M	59	-	-	55	54.5	53	52	50	46.5	41	33.6	-	-			
	-	EVMSG15 5/5.5	5.5	7.5	132 S	73.5	-	-	69	68	66	65	62	58	51	42	-	-			
	-	EVMSG15 6/5.5	5.5	7.5	132 S	88.5	-	-	82.5	81.5	79.5	78	74.5	69.5	61	50.5	-	-			
	-	EVMSG15 7/7.5	7.5	10	132 S	103	-	-	96.5	95.0	92.5	91	87	81	71.5	58.5	-	-			
	-	EVMSG15 8/7.5	7.5	10	132 S	118	-	-	110	109	106	104	99.5	92.5	81.5	67	-	-			
	-	EVMSG15 9/11	11	15	160 M	133	-	-	124	122	119	117	112	104	92	75.5	-	-			
	-	EVMSG15 10/11	11	15	160 M	147	-	-	138	136	132	130	124	116	102	84	-	-			
	-	EVMSG15 11/11	11	15	160 M	162	-	-	151	149	146	143	137	127	112	92.5	-	-			
	-	EVMSG15 12/11	11	15	160 M	177	-	-	165	163	159	156	149	139	122	101	-	-			
	-	EVMSG15 13/11	11	15	160 M	191	-	-	179	176	172	169	162	150	133	109	-	-			
	-	EVMSG15 15/15	15	20	160 M	221	-	-	206	203	199	195	187	174	153	126	-	-			
-	EVMSG15 17/15	15	20	160 M	250	-	-	234	231	225	221	211	197	173	143	-	-				
20	EVMSG20 1/1.5M	EVMSG20 1/1.5	1.5	2	90 S	17.2	-	-	-	-	14.3	13.9	12.8	11.3	9.6	7.3	4.3	2.4			
	-	EVMSG20 2/3.0	3.0	4	100 L	33.7	-	-	-	-	30.4	29.9	28.9	27.7	26.2	23.6	19.9	17.4			
	-	EVMSG20 3/4.0	4.0	5.5	112 M	50.5	-	-	-	-	46	45	43.4	41.6	39.2	35.5	29.9	26.2			
	-	EVMSG20 4/5.5	5.5	7.5	132 S	67.4	-	-	-	-	61	60	58	55.4	52.3	47.3	39.8	34.9			
	-	EVMSG20 5/7.5	7.5	10	132 S	84.2	-	-	-	-	76.0	75	72.3	69.3	65.4	59	49.8	43.6			
	-	EVMSG20 6/7.5	7.5	10	132 S	101	-	-	-	-	91.2	90	87	83.1	78.5	71	59.7	52.3			
	-	EVMSG20 7/11	11	15	160 M	118	-	-	-	-	106	105	101	97	91.5	82.7	70	61.1			
	-	EVMSG20 8/11	11	15	160 M	135	-	-	-	-	122	120	116	111	105	95	80	70			
	-	EVMSG20 9/11	11	15	160 M	152	-	-	-	-	137	135	130	125	118	106	89.6	79			
	-	EVMSG20 10/11	11	15	160 M	168	-	-	-	-	152	150	145	139	131	118	100	87			
	-	EVMSG20 11/15	15	20	160 M	185	-	-	-	-	167	165	159	152	144	130	110	96			
	-	EVMSG20 12/15	15	20	160 M	202	-	-	-	-	182	179	173	166	157	142	119	105			
	-	EVMSG20 13/15	15	20	160 M	219	-	-	-	-	198	194	188	180	170	154	129	113			
	-	EVMSG20 14/18.5	18.5	25	160 L	236	-	-	-	-	213	209	202	194	183	166	139	122			
-	EVMSG20 15/18.5	18.5	25	160 L	253	-	-	-	-	228	224	217	208	196	177	149	131				
-	EVMSG20 16/18.5	18.5	25	160 L	270	-	-	-	-	243	239	231	222	209	189	159	140				

1.6 MPa=16 bar ; 2.5 MPa=25 bar

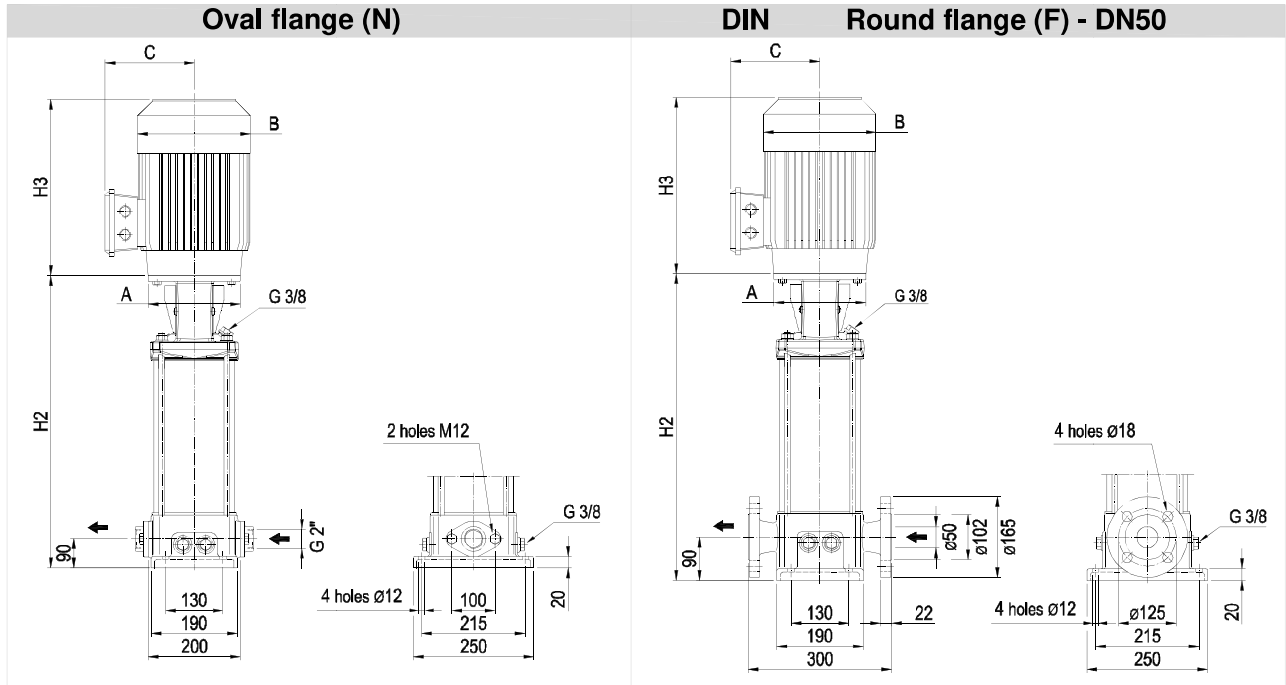
EVMSG15



Rotation speed 2900 min⁻¹
 Test standard: ISO 9906:2012 - Grade 3B

EVMSG15

Dimensional sketch



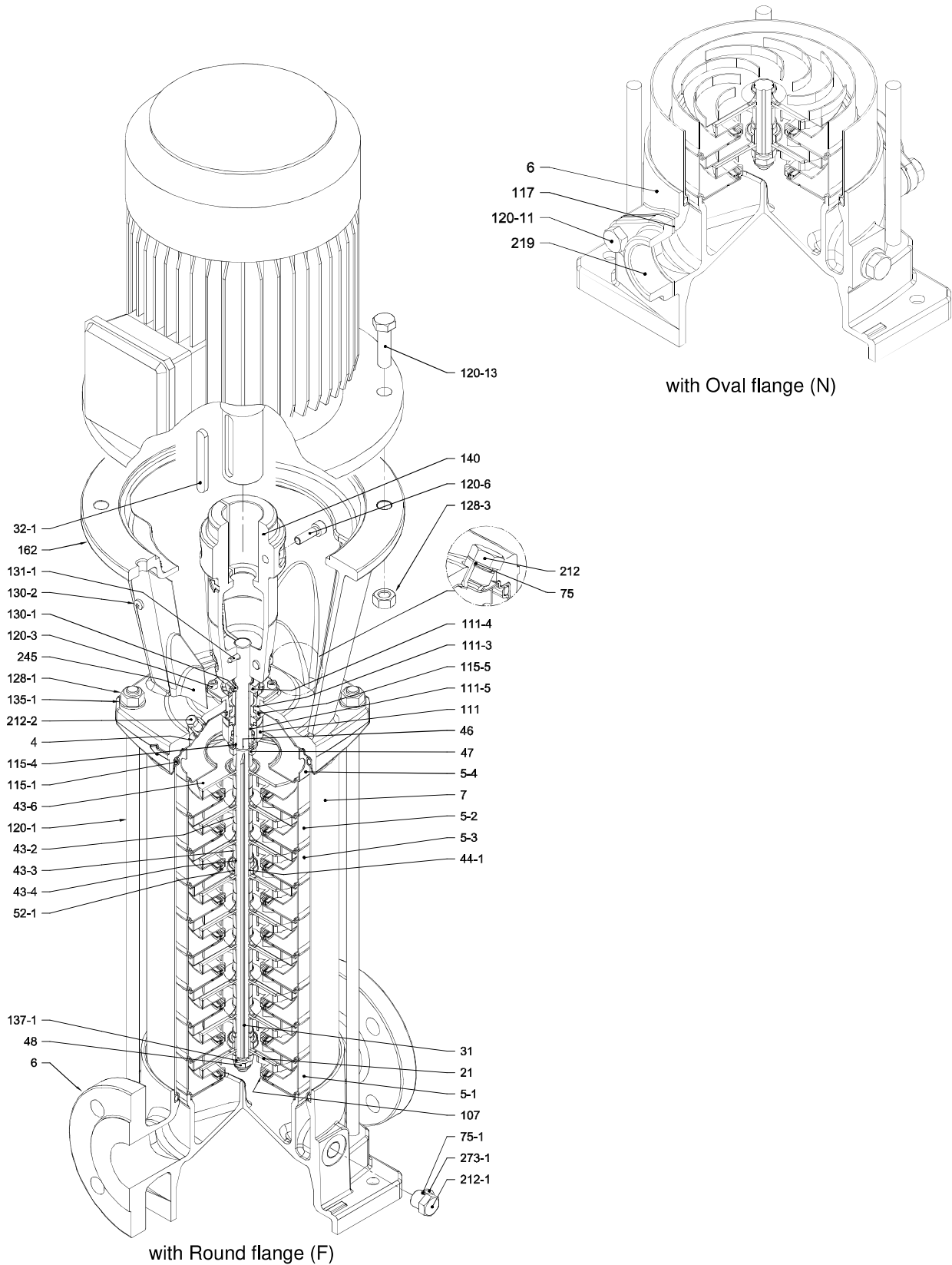
Note: Dimensions H3, C & B may vary depending on motor type fitted. Dimensions refer to Ebara factory motors (European) not generally fitted in Australia. Example only.

Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor									Oval flange (N)				Round flange (F)			
		kW	Size	1 ~			3 ~			H2	Weight Pump	Weight Pump + Motor		H2	Weight Pump	Weight Pump + Motor		
				A	B	C	H3	B	C			H3	1 ~			3 ~	1 ~	3 ~
EVMSG15 1/1.1	1.6	1.1	80	Ø120	160	151	232	160	139	232	377	22.4	34.2	33.5	377	26.9	38.7	38
EVMSG15 2/2.2	1.6	2.2	90L	Ø140	172	140	278	180	148	267	387	22.6	42.1	38.6	387	27.2	46.7	43.2
EVMSG15 3/3.0	1.6	3.0	100 L	Ø160	-	-	-	196	155	306	437	24	-	46.8	437	28.5	-	51.3
EVMSG15 4/4.0	1.6	4.0	112 S	Ø160	-	-	-	196	155	306	477	25.2	-	51.7	477	29.7	-	56.2
EVMSG15 5/5.5	1.6	5.5	132 S	Ø300	-	-	-	225	160	328	614	34.9	-	73.5	614	39.5	-	78.1
EVMSG15 6/5.5	1.6	5.5	132 S	Ø300	-	-	-	225	160	328	654	36.1	-	74.7	654	40.7	-	79.3
EVMSG15 7/7.5	1.6	7.5	132 S	Ø300	-	-	-	225	160	350	694	38.3	-	78.7	694	42.9	-	83.3
EVMSG15 8/7.5	1.6	7.5	132 S	Ø300	-	-	-	225	160	350	734	39.6	-	80	734	44.2	-	84.6
EVMSG15 9/11	1.6	11	160 M	Ø350	-	-	-	248	194	476	804	40.9	-	103.4	804	45.5	-	108
EVMSG15 10/11	1.6	11	160 M	Ø350	-	-	-	248	194	476	844	42.2	-	104.7	844	46.8	-	109.3
EVMSG15 11/11	1.6	11	160 M	Ø350	-	-	-	248	194	476	884	50.2	-	112.7	884	54.7	-	117.2
EVMSG15 12/11	2.5	11	160 M	Ø350	-	-	-	248	194	476	-	-	-	-	924	56	-	118.5
EVMSG15 13/11	2.5	11	160 M	Ø350	-	-	-	248	194	476	-	-	-	-	964	57.3	-	119.8
EVMSG15 15/15	2.5	15	160 M	Ø350	-	-	-	317	238	498	-	-	-	-	1044	59.9	-	148.8
EVMSG15 17/15	2.5	15	160 M	Ø350	-	-	-	317	238	498	-	-	-	-	1124	62.8	-	151.7

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

EVMSG15



SECTIONAL TABLE

50 Hz

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-250-EN1561			
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)	D. 26x2.5		
44-1	Shaft sleeve bearing	Tungsten carbide			
46	Ring (mechanical seal)	EN 1.4404 (AISI 316L)			
47	Ring Holder	EN 1.4301 (AISI 304)			
48	Impeller nut	A2-70 UNI 7323 with inox insert	M10		
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM	D. 12.37x2.62	OR 3050	
75-1	O-Ring (plug)	EPDM			
107	Liner ring	EN 1.4301 (AISI 304) + PPS			
111	Mechanical Seal	SiC/Carbon/EPDM			
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	D. 164,46x5,34	OR 6645	
115-4	O-Ring (cartridge sleeve)	EPDM	D. 15,88x2,62	OR 121	
115-5	O-Ring (seal cover)	EPDM	D. 37,77x2,62	OR 3150	
117	Flange gasket	EPDM			
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	Galvanized steel 6.8 strength 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 strength 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	D. 5x35	UNI 4838	
135-1	Washer	Galvanized steel	D. 13x24x2,5	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)			

EVMSG15

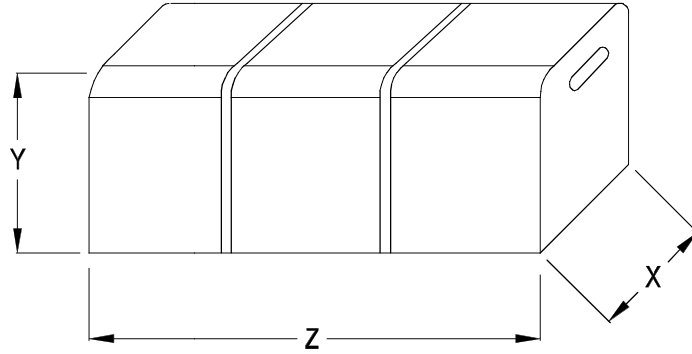
Pump Type	N°																													
	4	5-1	5-2	5-3	5-4	6	7	21	31***	32-1	43-2	43-3	43-4	43-6	44-1	46	47	48	52-1	75	75-1	107	111	111-3	111-4	111-5	115-1	115-4	115-5	
EVMSG15 1/1.1	1	1	/	1	1	1	1	1	1	1	/	1	1	1	1	2	1	1	1	1	4	1	1	1	1	1	1	2	1	1
EVMSG15 2/2.2	1	1	/	1	1	1	1	2	1	1	/	1	1	/	1	2	1	1	1	1	4	2	1	1	1	1	2	1	1	
EVMSG15 3/3.0	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 4/4.0	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 5/5.5	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 6/5.5	1	1	4	1	1	1	1	6	1	1	9	1	1	/	1	2	1	1	1	1	4	6	1	1	1	1	2	1	1	
EVMSG15 7/7.5	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 8/7.5	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 9/11	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 10/11	1	1	7	2	1	1	1	10	1	1	15	1	2	/	2	2	1	1	2	1	4	10	1	1	1	1	2	1	1	
EVMSG15 11/11	1	1	8	2	1	1	1	11	1	1	17	1	2	/	2	2	1	1	2	1	4	11	1	1	1	1	2	1	1	
EVMSG15 12/11	1	1	9	2	1	1	1	12	1	1	19	1	2	/	2	2	1	1	2	1	4	12	1	1	1	1	2	1	1	
EVMSG15 13/11	1	1	10	2	1	1	1	13	1	1	21	1	2	/	2	2	1	1	2	1	4	13	1	1	1	1	2	1	1	
EVMSG15 15/15	1	1	12	2	1	1	1	15	1	1	25	1	2	/	2	2	1	1	2	1	4	15	1	1	1	1	2	1	1	
EVMSG15 17/15	1	1	13	3	1	1	1	17	1	1	27	2	2	/	3	2	1	1	3	1	4	17	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 1/1.1	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG15 2/2.2	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG15 3/3.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG15 4/4.0	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG15 5/5.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 6/5.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 7/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 8/7.5	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 9/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 10/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 11/11	2	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4	
EVMSG15 12/11	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	
EVMSG15 13/11	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	
EVMSG15 15/15	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	
EVMSG15 17/15	/	4	4	4	/	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4	

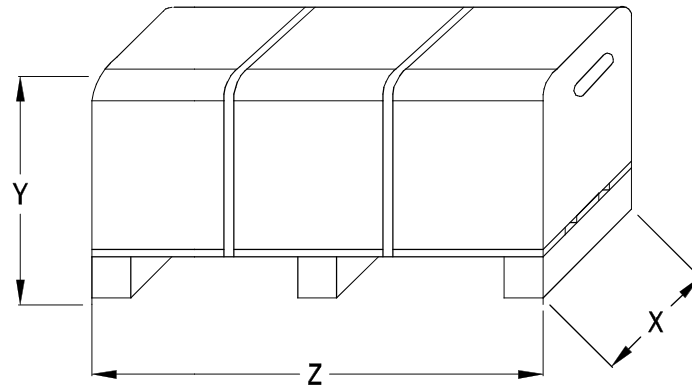
* only for Oval flange (N)

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

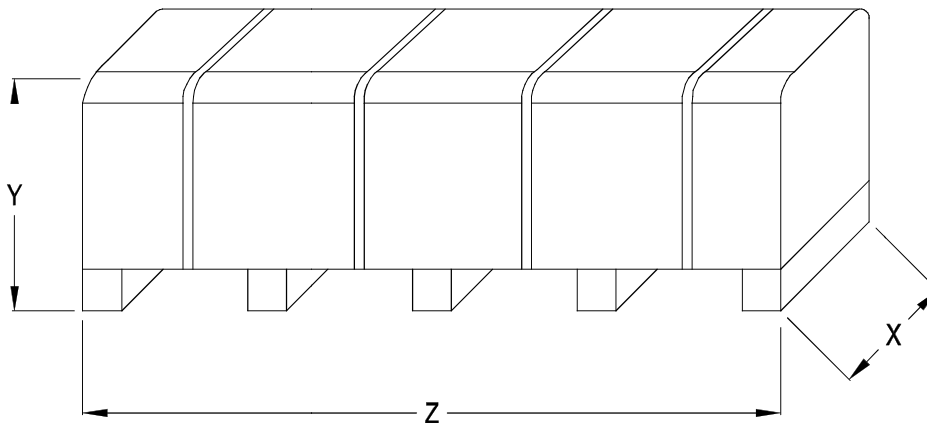
EVMSG1-3-5-10-15-20



TYPE 1



TYPE 2



TYPE 3

EVMSG1-3-5

Note: Pumps with motor dimensions refer to Ebara Factory motors (European). Not generally fitted in Australia. Example purpose only.

Table with columns for Pump type, Pumps (Packing [mm], Weight + Packing [kg], Pack Type), Pumps with motor ~1, and Pumps with motor ~3. Rows include various models like EVMSG1 2/0.37, EVMSG3 2/0.37, EVMSG5 2/0.37, etc.

EVMSG10-15-20

Note: Pumps with motor dimensions refer to Ebara Factory motors (European). Not generally fitted in Australia. Example purpose only.

Pump type	Pumps					Pumps with motor ~1					Pumps with motor ~3							
	Packing [mm]			Weight + Packing [kg]		Pack Type	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		X	Y	Z	EVMS(L)	EVMSG	
EVMSG10 2/0.75	385	400	585	19.9	26.7	1	385	400	770	32.0	38.8	1	385	400	770	30.1	36.9	1
EVMSG10 3/1.5	385	400	585	20.9	27.7	1	385	400	770	39.4	46.2	1	385	400	770	35.6	42.4	1
EVMSG10 4/2.2	385	400	585	21.7	28.4	1	385	400	770	41.9	48.6	1	385	400	770	38.4	45.1	1
EVMSG10 5/2.2	385	400	585	22.5	29.3	1	385	400	970	43.3	49.4	1	385	400	970	39.8	46.6	1
EVMSG10 6/2.2	385	400	585	23.4	30.1	1	385	400	970	44.2	50.0	1	385	400	970	40.7	47.4	1
EVMSG10 7/3.0	385	400	585	24.3	31.1	1	-	-	-	-	-	-	400	510	1200	48.4	64.8	1 2
EVMSG10 8/3.0	385	400	770	25.7	32.4	1	-	-	-	-	-	-	400	510	1200	49.3	65.6	1 2
EVMSG10 9/4.0	385	400	770	26.5	33.3	1	-	-	-	-	-	-	400	510	1200	63.4	70.2	2
EVMSG10 10/4.0	385	400	770	27.4	34.1	1	-	-	-	-	-	-	400	510	1200	64.2	71.0	2
EVMSG10 11/4.0	385	400	770	29.0	35.8	1	-	-	-	-	-	-	400	510	1200	65.9	72.7	2
EVMSG10 12/5.5	385	400	970	39.2	46.0	1	-	-	-	-	-	-	400	510	1200	87.8	94.6	2
EVMSG10 14/5.5	385	400	970	41.0	47.8	1	-	-	-	-	-	-	500	525	1350	100.5	107.3	3
EVMSG10 15/5.5	385	400	970	41.9	48.7	1	-	-	-	-	-	-	500	525	1350	101.4	108.2	3
EVMSG10 16/7.5	385	400	970	42.9	49.6	1	-	-	-	-	-	-	500	525	1350	104.2	110.9	3
EVMSG10 18/7.5	400	510	1200	45.3	60.6	1 2	-	-	-	-	-	-	500	525	1540	108.5	114.8	3
EVMSG10 19/7.5	400	510	1200	46.2	62.0	1 2	-	-	-	-	-	-	500	525	1540	109.9	116.7	3
EVMSG10 21/7.5	400	510	1200	48.0	63.8	1 2	-	-	-	-	-	-	500	525	1540	111.4	118.2	3
EVMSG10 22/11	400	510	1200	59.3	66.1	2	-	-	-	-	-	-	610	525	1750	136.1	142.9	3
EVMSG10 23/11	500	525	1350	76.8	83.6	3	-	-	-	-	-	-	610	525	1750	142.0	148.8	3
EVMSG15 1/1.1	385	400	585	21.2	29.3	1	385	400	770	33.7	41.8	1	385	400	770	33.0	41.1	1
EVMSG15 2/2.2	385	400	585	21.5	29.6	1	385	400	770	41.7	49.8	1	385	400	770	38.2	46.3	1
EVMSG15 3/3.0	385	400	585	22.8	30.9	1	-	-	-	-	-	-	400	510	1200	46.9	64.6	1 2
EVMSG15 4/4.0	385	400	585	24.0	32.1	1	-	-	-	-	-	-	400	510	1200	60.2	69.5	2
EVMSG15 5/5.5	385	400	770	34.2	42.4	1	-	-	-	-	-	-	400	510	1200	83.2	91.4	2
EVMSG15 6/5.5	385	400	770	35.4	43.6	1	-	-	-	-	-	-	400	510	1200	84.4	92.6	2
EVMSG15 7/7.5	385	400	770	37.6	45.8	1	-	-	-	-	-	-	400	510	1200	88.4	96.6	2
EVMSG15 8/7.5	385	400	970	39.4	47.5	1	-	-	-	-	-	-	400	510	1200	89.7	97.9	2
EVMSG15 9/11	400	510	1200	45.4	63.0	1 2	-	-	-	-	-	-	500	525	1350	125.2	133.2	3
EVMSG15 10/11	400	510	1200	47.7	65.3	1 2	-	-	-	-	-	-	500	525	1540	127.8	136.0	3
EVMSG15 11/11	400	510	1200	49.9	67.6	1 2	-	-	-	-	-	-	500	525	1540	135.3	144.4	3
EVMSG15 12/11	400	510	1200	60.8	68.9	2	-	-	-	-	-	-	500	525	1540	137.3	145.4	3
EVMSG15 13/11	400	510	1200	62.1	70.2	2	-	-	-	-	-	-	500	525	1540	138.6	146.7	3
EVMSG15 15/15	400	510	1200	64.7	72.8	2	-	-	-	-	-	-	610	525	1750	167.6	175.7	3
EVMSG15 17/15	500	525	1350	78.9	87.0	3	-	-	-	-	-	-	610	525	1750	170.5	178.6	3
EVMSG20 1/1.5	385	400	585	21.4	29.6	1	385	400	770	39.7	44.9	1	385	400	770	39.0	44.2	1
EVMSG20 2/3.0	385	400	585	22.0	30.2	1	-	-	-	-	-	-	385	400	770	45.0	49.5	1
EVMSG20 3/4.0	385	400	585	22.9	31.1	1	-	-	-	-	-	-	400	510	1200	50.0	68.5	1 2
EVMSG20 4/5.5	385	400	770	29.3	37.5	1	-	-	-	-	-	-	400	510	1200	78.3	86.5	2
EVMSG20 5/7.5	385	400	770	30.6	38.8	1	-	-	-	-	-	-	400	510	1200	81.4	89.6	2
EVMSG20 6/7.5	385	400	770	31.8	40.0	1	-	-	-	-	-	-	400	510	1200	82.6	90.8	2
EVMSG20 7/11	385	400	970	40.0	48.2	1	-	-	-	-	-	-	500	525	1350	119.3	127.5	3
EVMSG20 8/11	400	510	1200	46.3	64.1	1 2	-	-	-	-	-	-	500	525	1350	129.7	137.9	3
EVMSG20 9/11	400	510	1200	47.6	65.4	1 2	-	-	-	-	-	-	500	525	1350	131.0	139.2	3
EVMSG20 10/11	400	510	1200	49.0	66.8	1 2	-	-	-	-	-	-	500	525	1540	134.9	143.1	3
EVMSG20 11/15	400	510	1200	50.0	68.1	1 2	-	-	-	-	-	-	500	525	1540	162.8	171.0	3
EVMSG20 12/15	400	510	1200	61.2	69.4	2	-	-	-	-	-	-	500	525	1540	164.1	172.3	3
EVMSG20 13/15	400	510	1200	62.5	70.8	2	-	-	-	-	-	-	500	525	1540	165.4	173.7	3
EVMSG20 14/18.5	400	510	1200	63.9	72.1	2	-	-	-	-	-	-	610	525	1750	181.9	190.0	3
EVMSG20 15/18.5	400	510	1200	65.2	73.4	2	-	-	-	-	-	-	610	525	1750	183.2	191.4	3
EVMSG20 16/18.5	400	510	1200	66.5	74.7	2	-	-	-	-	-	-	610	525	1750	184.5	192.7	3

Standard motors fitted are 3 Phase
 WEG W21 motors, E2, IP55, Class F :-
 - Aluminium motors 0.37 to 7.5 kW
 - Cast Iron motors 11 & 15 kW

Motor kW	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11.0	15.0	18.5
Frame Size	71	71	80	80	90S	90L	100L	112M	132S	132S	160M	160M	160L
FLC #	0.875	1.22	1.58	2.40	3.01	4.39	5.77	7.45	10.2	13.9	20.2	27.1	33.7
Mount	Vertical Face Mount - B14A (V18)							Vertical Flange Mount - B5 (V1)					

* FLC = Motor full load current (A) @ 400 V (W21 motors)

TYPICAL NOISE DATA

Coupling Flange Size (MEC)	Power		Noise LpA - dB(A) *
	[kW]	[HP]	
71	0.37	0.5	<70
	0.55	0.75	
80	0.75	1	<70
	1.1	1.5	
90 S	1.5	2	<70
90 L	2.2	3	
100 L	3.0	4	<70
112 M	4.0	5.5	<70
132 S	5.5	7.5	72
	7.5	10	
160 M	11	15	74
	15	20	
160 L	18.5	25	