EVMSG

Vertical Multistage Pumps

Shurricane™

with unique low axial thrust impeller design

Any motor ▪ Anywhere

CONTENTS 50 Hz

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

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** degress 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**

Drinking water approval	DM174/2004	ACS	KTW*
Mechanical seal	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 (Varible frequency drive)** and **the commercial sensor** can be directly mounted on EVMSG to maintain physical constant operations such as pumping pressure depending on the coditions 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

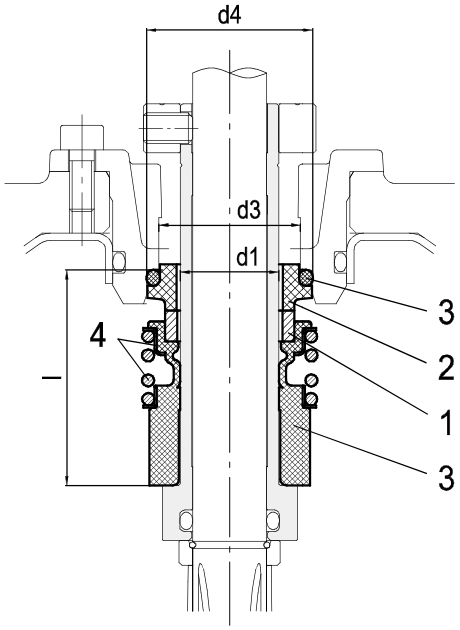
SPECIFICATIONS - PRODUCT SPECIFICATIONS 50 Hz

			PUMP
			EVMSG
Operating range	Maximum working pressure		1.6 / 2.5 MPa (16 bar/ 25 bar)
	Liquid temperature range		-30℃ to 140℃
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

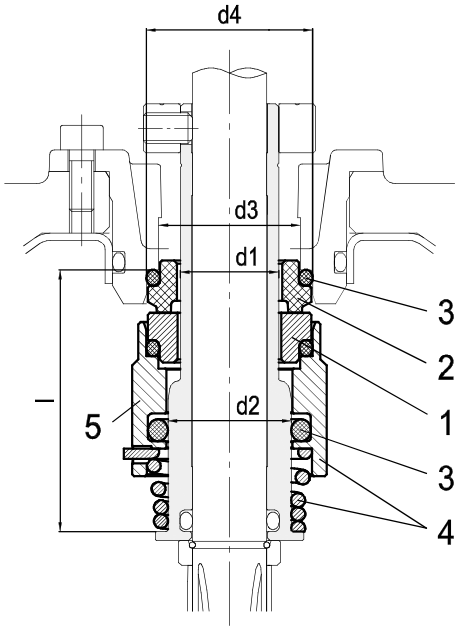
Motor		Standard In Australia (WEG W21 E2 motors)	Options available on request
Power Source	Frequency	50 Hz	
	Phase	Three Phase	Single Phase (up to 3 kW)
	Rotation Speed	~ 2900 min	
	Power Rating	0.37 ÷ 18.5 kW	
		0.5 ÷ 25 HP	
	Voltage	230/400 ± 10% (up to 3 kW) 400/690 ± 10% (4.0 kW & above)	
Type	Type	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)	

SHAFT SEAL

50 Hz



up to 16 bar
Cartridge Unbalanced type



from 16 to 25 bar
Cartridge Balanced type

Legend: ● Standard ○ Options ( ) Type key

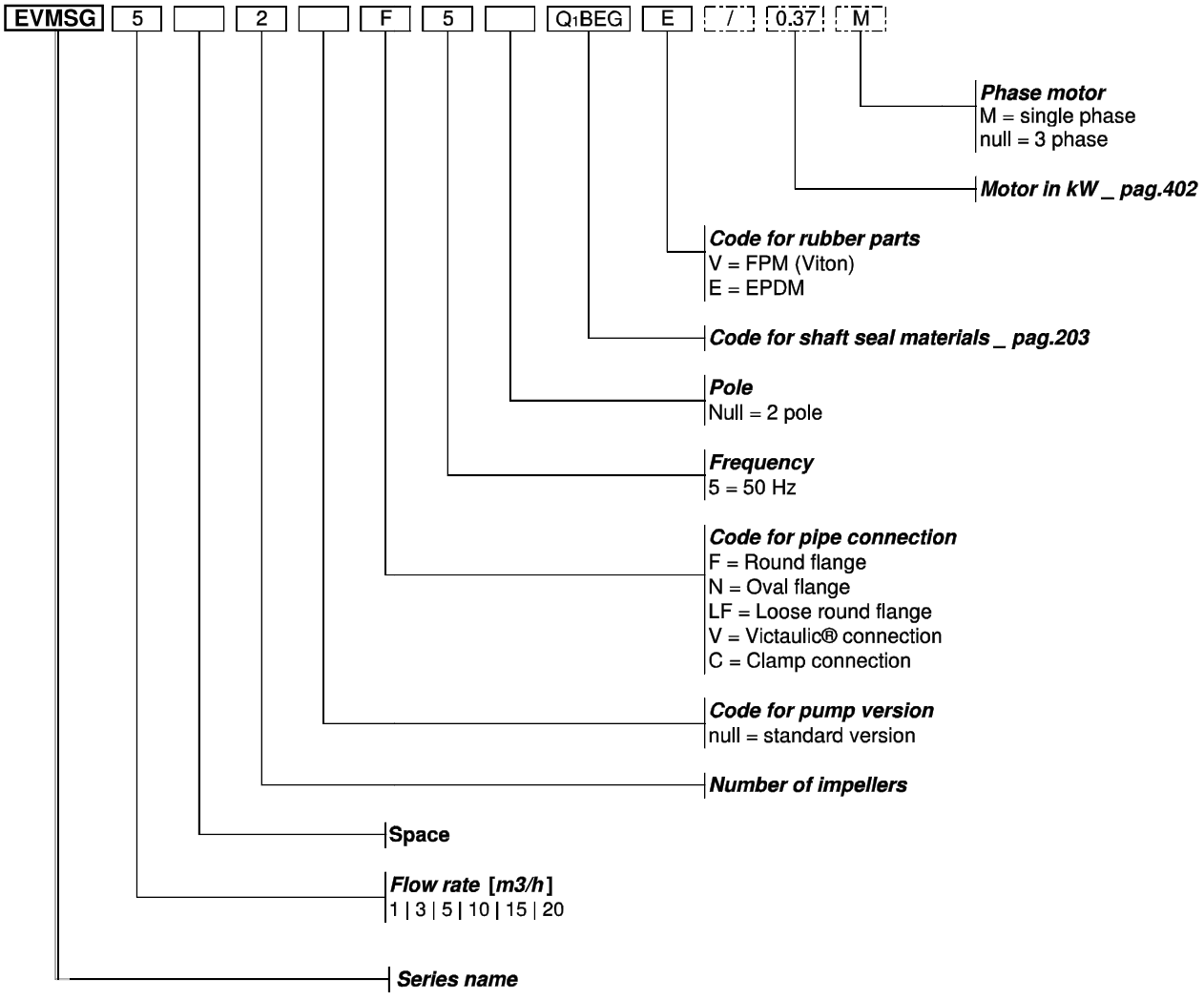
Pump model	Max liquid temperature range	Shaft seal type Cartridge		Shaft seal material 1 Rotating Part	2 Stationary Part	3 Elastomers	4 Spring	5 Collar	Type key
		Unbalanced	Balanced						
up to 16 bar	- 30°C to + 120°C	●		SiC (Q_1)	Carbon (B)	EPDM (E)	AISI316 (G)		Q_1BEG
	- 30°C to + 80°C	○		SiC (Q_1)	Carbon (B)	FPM (V)	AISI316 (G)		Q_1BVG
	- 30°C to + 140°C		○	SiC with graphite (Q_9)	SiC (Q_1)	EPDM (E)	AISI316 (G)		HQ_9Q_1EG
	- 30°C to + 80°C		○	SiC with graphite (Q_9)	SiC (Q_1)	FPM (V)	AISI316 (G)		HQ_9Q_1VG
	- 30°C to + 140°C		○	SiC (Q_1)	Carbon (B)	EPDM (E)	AISI316 (G)		HQ_1BEG
from 16 bar to 25 bar	- 30°C to + 140°C		●	SiC (Q_1)	Carbon (B)	EPDM (E)	AISI316 (G)		HQ_1BEG
	- 30°C to + 80°C		○	SiC (Q_1)	Carbon (B)	FPM (V)	AISI316 (G)		HQ_1BVG
	- 30°C to + 140°C		○	SiC with graphite (Q_9)	SiC (Q_1)	EPDM (E)	AISI316 (G)		HQ_9Q_1EG
	- 30°C to + 80°C		○	SiC with graphite (Q_9)	SiC (Q_1)	FPM (V)	AISI316 (G)		HQ_9Q_1VG

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

TYPE KEY

50 Hz

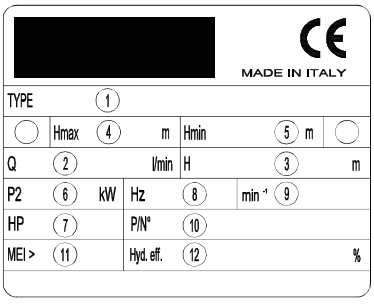
EVMSG 1-3-5-10-15-20



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

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

NAMEPLATE

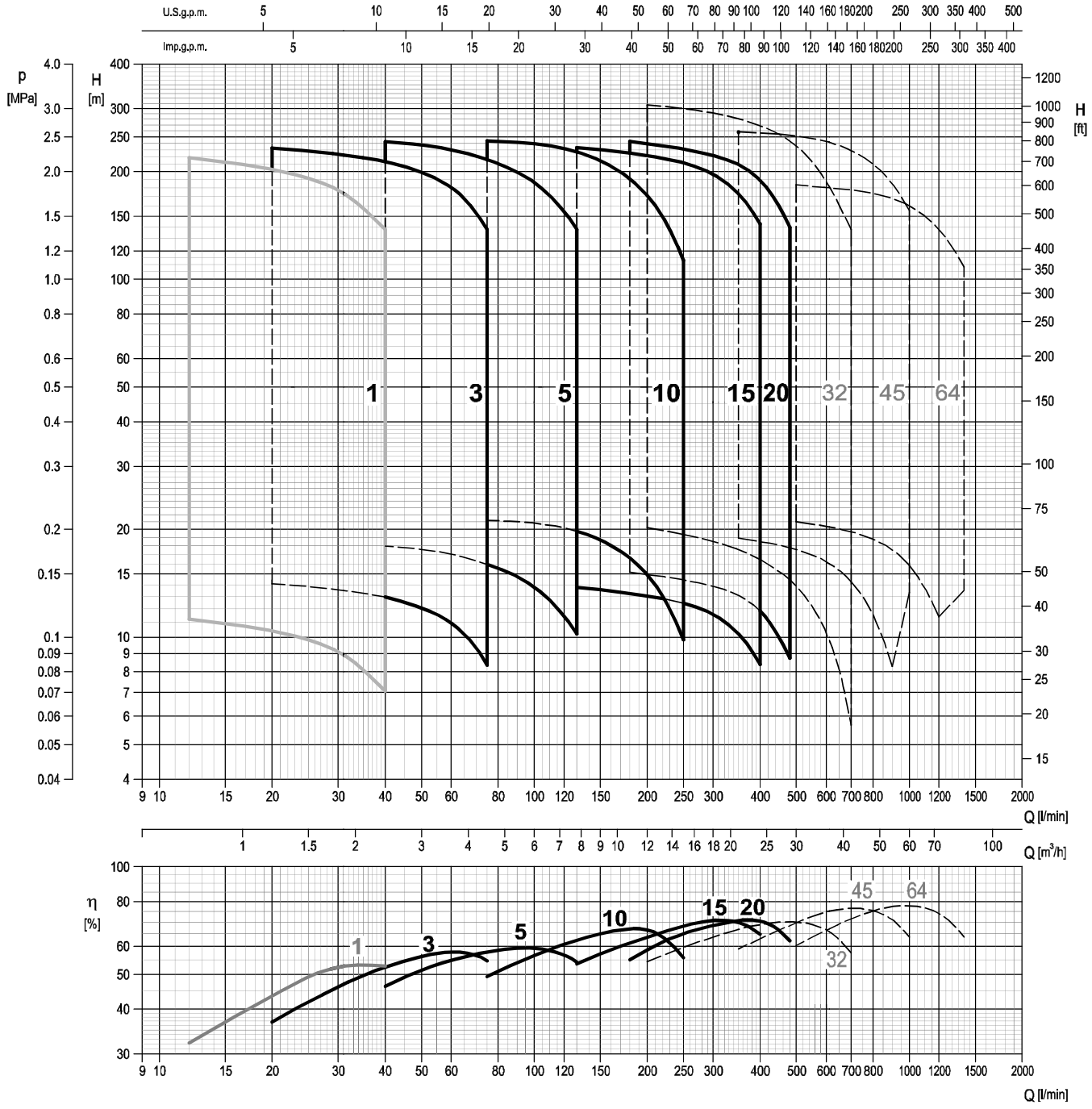


1)	"TYPE"	Pump model
2)	"Q"	Indicates upper and lower flow rate limits
3)	"H"	Indicates head limits corresponding to minimum and maximum flow rate
4)	"Hmax"	Maximum head
5)	"Hmin"	Minimum head
6)	"P2"	Rated power of the motor (output at shaft)
7)	"HP"	Rated power of the motor expressed in HP (Horse Power)
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

50 Hz

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



CURVE SPECIFICATIONS 50 Hz

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 n = 1 mm^2/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

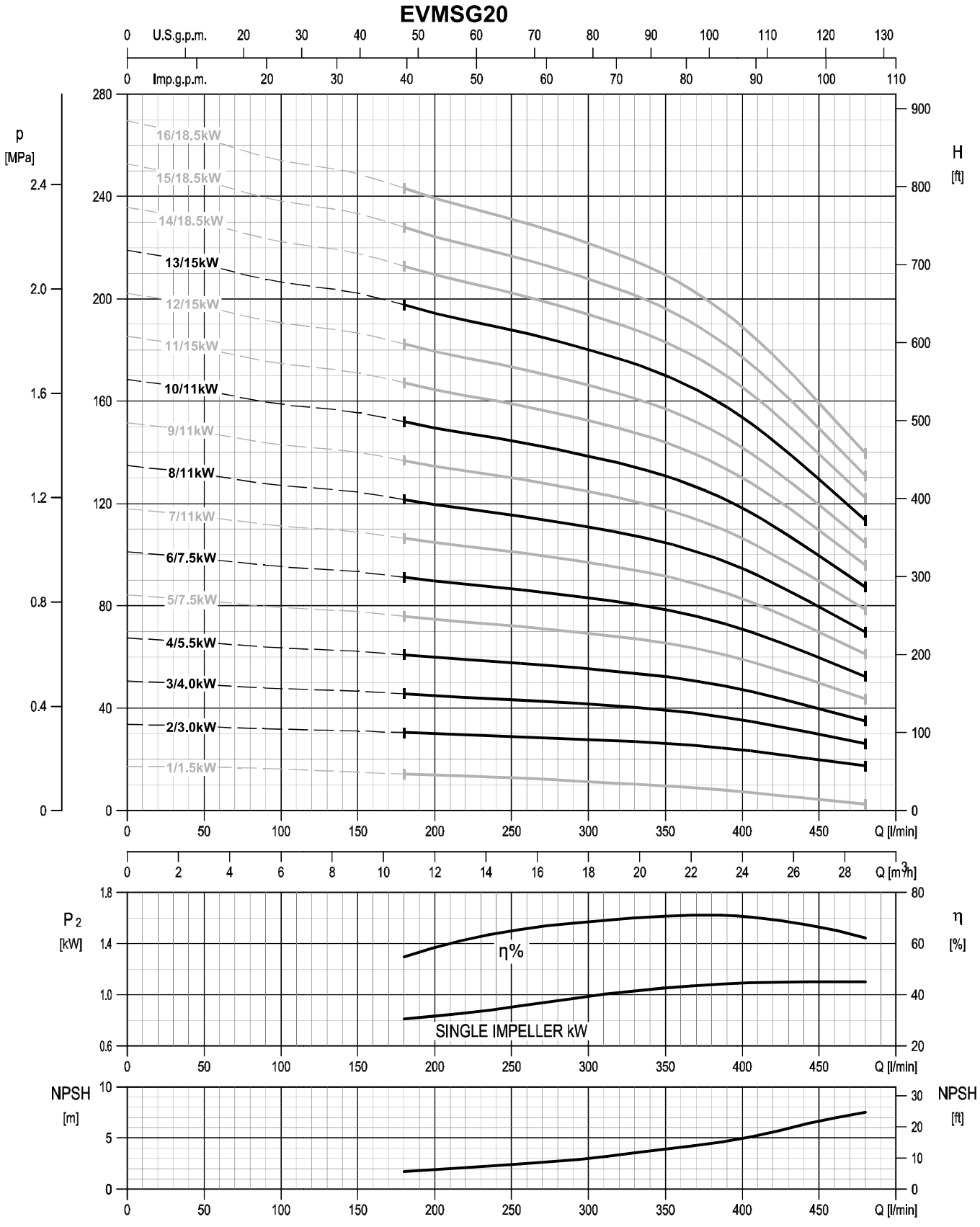
SELECTION CHART 50 Hz

EVMSG 10-15-20

	Pump Type		Motor			Maximum working pressure (MPa)	Q=Capacity												
			kW	HP	Size		l/min 0	75	100	130	150	180	200	250	300	350	400	450	480
							m^3/h 0	4.5	6.0	7.8	9.0	10.8	12.0	15.0	18.0	21.0	24.0	27.0	28.8
	Single phase	Three phase					H=Total manometric head in meters												
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**	**1.6**	**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	**2.5**	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**	**1.6**	**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**	**2.5**	**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	EVMSG 20 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	**1.6**	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**	**2.5**	**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

PERFORMANCE CURVE 50 Hz



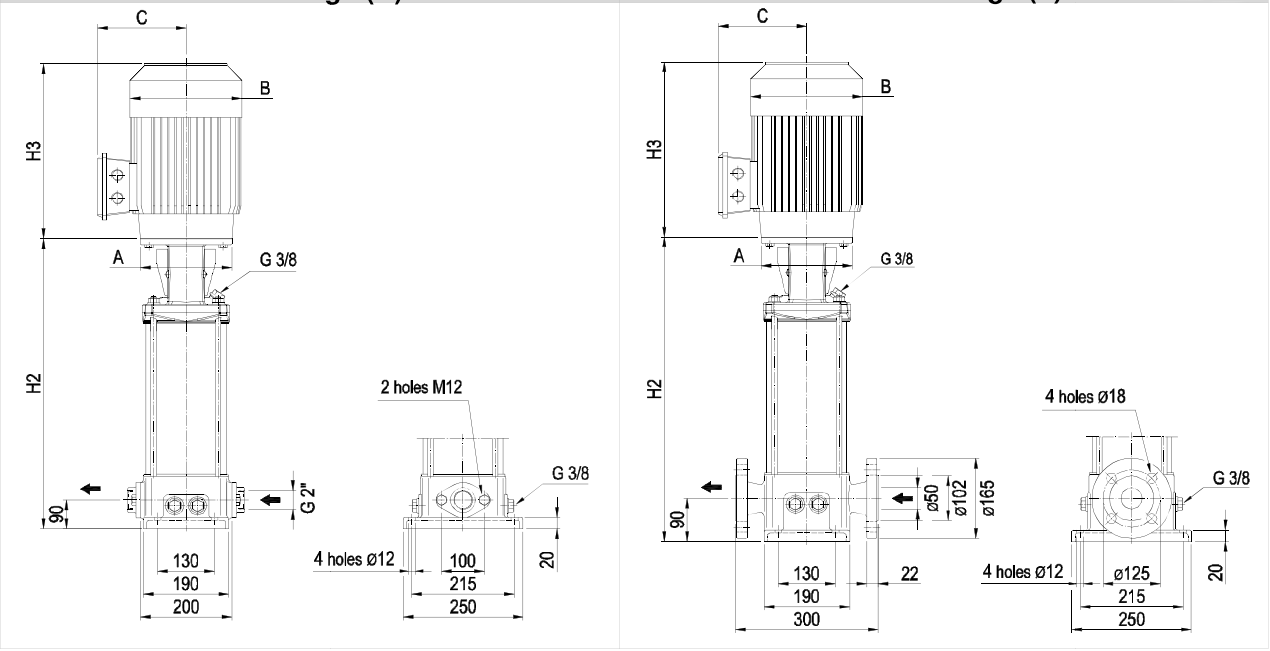
Rotation speed 2900 min^{-1}
Test standard: ISO 9906:2012 - Grade 3B

TECHNICAL DATA 50 Hz

EVMSG20

Dimensional sketch

Oval flange (N) **DIN Round flange (F) - DN50**



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.

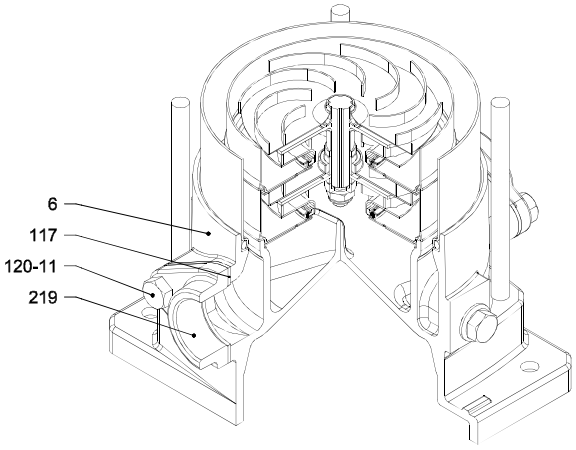
Dimensions [mm] and Weights [Kg]

Pump Type	Pmax [MPa]	Motor kW	Size	A	1 ~ B	1 ~ C	1 ~ H3	3 ~ B	3 ~ C	3 ~ H3	Oval flange (N) H2	Weight Pump	Weight Pump + Motor 1 ~	Weight Pump + Motor 3 ~	Round flange (F) H2	Weight Pump	Weight Pump + Motor 1 ~	Weight Pump + Motor 3 ~
EVMSG20 1/1.5	1.6	1.5	90 S	ø140	172	140	278	180	148	267	387	22.6	40.4	35.3	387	27.2	45	39.9
EVMSG20 2/3.0	**1.6**	**3.0**	**100 L**	**ø160**	**-**	**-**	**-**	**196**	**155**	**306**	397	22.7	-	45.5	**397**	**27.3**	**-**	**50.1**
EVMSG20 3/4.0	**1.6**	**4.0**	**112 M**	**ø160**	**-**	**-**	**-**	**196**	**155**	**306**	437	24.1	-	50.6	**437**	**28.7**	**-**	**55.2**
EVMSG20 4/5.5	**1.6**	**5.5**	**132 S**	**ø300**	**-**	**-**	**-**	**225**	**160**	**328**	574	30	-	68.6	**574**	**34.6**	**-**	**73.2**
EVMSG20 5/7.5	1.6	7.5	132 S	ø300	-	-	-	225	160	350	614	31.2	-	71.6	614	35.9	-	76.3
EVMSG20 6/7.5	**1.6**	**7.5**	**132 S**	**ø300**	**-**	**-**	**-**	**225**	**160**	**350**	654	32.5	-	72.9	**654**	**37.1**	**-**	**77.5**
EVMSG20 7/11	1.6	11	160 M	ø350	-	-	-	248	194	476	724	34.8	-	97.3	724	39.4	-	101.9
EVMSG20 8/11	**1.6**	**11**	**160 M**	**ø350**	**-**	**-**	**-**	**248**	**194**	**476**	764	46.6	-	109.1	**764**	**51.2**	**-**	**113.7**
EVMSG20 9/11	1.6	11	160 M	ø350	-	-	-	248	194	476	804	47.9	-	110.4	804	52.5	-	115
EVMSG20 10/11	**2.5**	**11**	**160 M**	**ø350**	**-**	**-**	**-**	**248**	**194**	**476**	-	-	-	-	**844**	**53.9**	**-**	**116.4**
EVMSG20 11/15	2.5	15	160 M	ø350	-	-	-	317	238	498	-	-	-	-	884	55.2	-	144.1
EVMSG20 12/15	2.5	15	160 M	ø350	-	-	-	317	238	498	-	-	-	-	924	56.5	-	145.4
EVMSG20 13/15	**2.5**	**15**	**160 M**	**ø350**	**-**	**-**	**-**	**317**	**238**	**498**	-	-	-	-	**964**	**57.9**	**-**	**146.8**
EVMSG20 14/18.5	2.5	18.5	160 L	ø350	-	-	-	317	238	542	-	-	-	-	1004	59.2	-	163.2
EVMSG20 15/18.5	2.5	18.5	160 L	ø350	-	-	-	317	238	542	-	-	-	-	1044	60.5	-	164.5
EVMSG20 16/18.5	2.5	18.5	160 L	ø350	-	-	-	317	238	542	-	-	-	-	1084	61.8	-	165.8

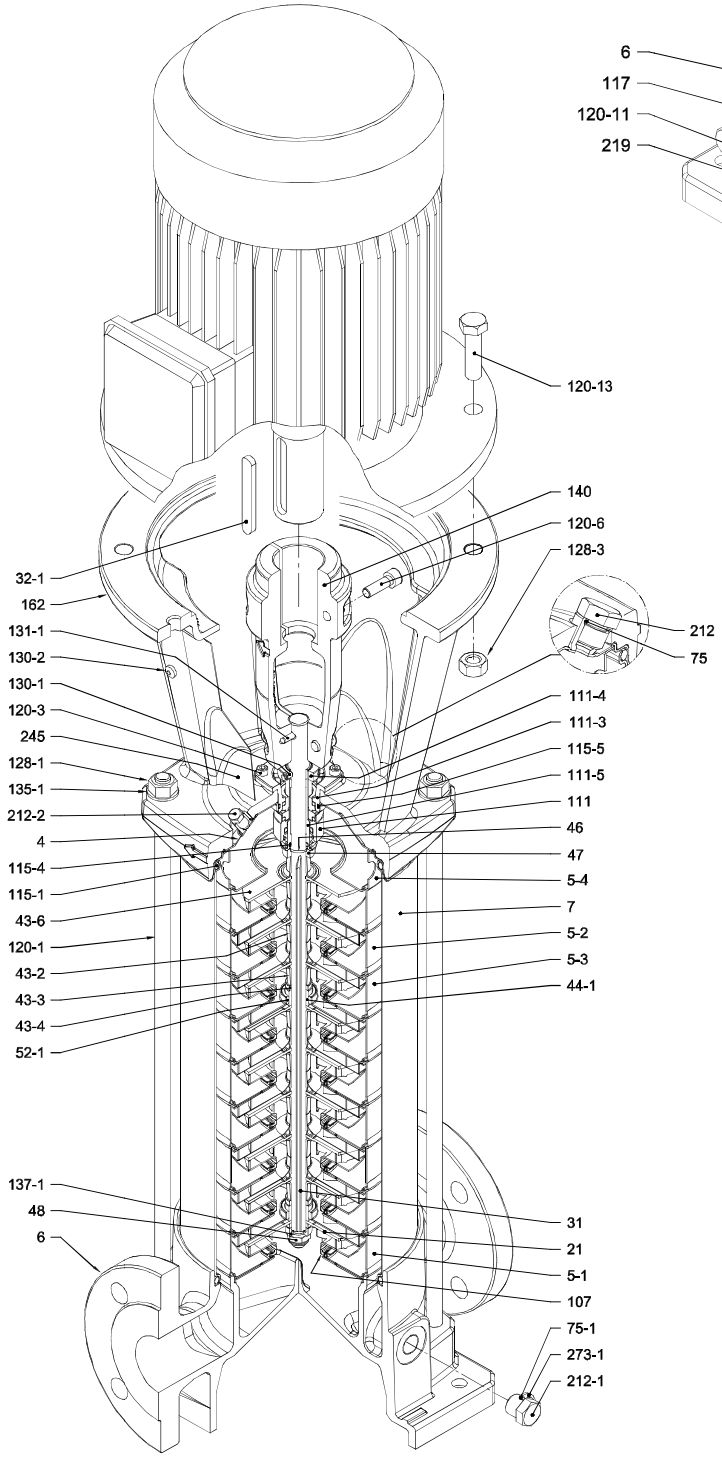
1.6 MPa=16 bar ; 2.5 MPa=25 bar
- not available model

SECTIONAL VIEW 50 Hz

EVMSG20



with Oval flange (N)



with Round flange (F)

SECTIONAL TABLE 50 Hz

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-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	up to 4.0 kW	Galvanized steel 6.8 strength class ISO 898/1	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 strength 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
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)		

QUANTITY FOR MODEL

50 Hz

EVMSG20

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
EVMSG20 1/1.5	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 2/3.0	**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**
EVMSG20 3/4.0	**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**
EVMSG20 4/5.5	**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 5/7.5	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
EVMSG20 6/7.5	**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**
EVMSG20 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
EVMSG20 8/11	**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 9/11	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
EVMSG20 10/11	**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**
EVMSG20 11/15	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
EVMSG20 12/15	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
EVMSG20 13/15	**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**
EVMSG20 14/18.5	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
EVMSG20 15/18.5	1	1	12	2	1	1	1	15	1	1	25	2	2	/	2	2	1	1	2	1	4	15	1	1	1	1	2	1	1
EVMSG20 16/18.5	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

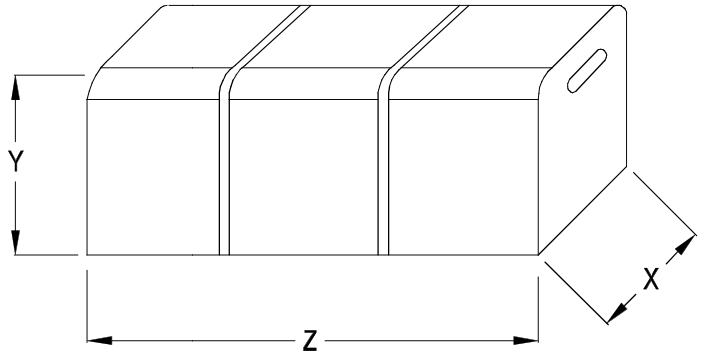
Pump Type	N°																								
	117*	120-1	120-3	120-6	120-11*	120-13	128-1	128-3	128-6	130-1	130-2	131-1	135-1	135-6	137-1	140	162	212	212-1	212-2	219*	245	273-1
EVMSG20 1/1.5	2	4	4	4	4	4	4	/	4	3	4	1	4	4	1	2	1	1	4	1	2	2	4
EVMSG20 2/3.0	**2**	**4**	**4**	**4**	**4**	**4**	**4**	**/**	**4**	**3**	**4**	**1**	**4**	**4**	**1**	**2**	**1**	**1**	**4**	**1**	**2**	**2**	**4**
EVMSG20 3/4.0	**2**	**4**	**4**	**4**	**4**	**4**	**4**	**/**	**4**	**3**	**4**	**1**	**4**	**4**	**1**	**2**	**1**	**1**	**4**	**1**	**2**	**2**	**4**
EVMSG20 4/5.5	**2**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**/**	**3**	**4**	**1**	**4**	**/**	**1**	**2**	**1**	**1**	**4**	**1**	**2**	**2**	**4**
EVMSG20 5/7.5	2	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4
EVMSG20 6/7.5	**2**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**/**	**3**	**4**	**1**	**4**	**/**	**1**	**2**	**1**	**1**	**4**	**1**	**2**	**2**	**4**
EVMSG20 7/11	2	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4
EVMSG20 8/11	**2**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**/**	**3**	**4**	**1**	**4**	**/**	**1**	**2**	**1**	**1**	**4**	**1**	**2**	**2**	**4**
EVMSG20 9/11	2	4	4	4	4	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	2	2	4
EVMSG20 10/11	**/**	**4**	**4**	**4**	**/**	**4**	**4**	**4**	**/**	**3**	**4**	**1**	**4**	**/**	**1**	**2**	**1**	**1**	**4**	**1**	**/**	**2**	**4**
EVMSG20 11/15	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG20 12/15	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG20 13/15	**/**	**4**	**4**	**4**	**/**	**4**	**4**	**4**	**/**	**3**	**4**	**1**	**4**	**/**	**1**	**2**	**1**	**1**	**4**	**1**	**/**	**2**	**4**
EVMSG20 14/18.5	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG20 15/18.5	/	4	4	4	/	4	4	4	/	3	4	1	4	/	1	2	1	1	4	1	/	2	4
EVMSG20 16/18.5	/	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)

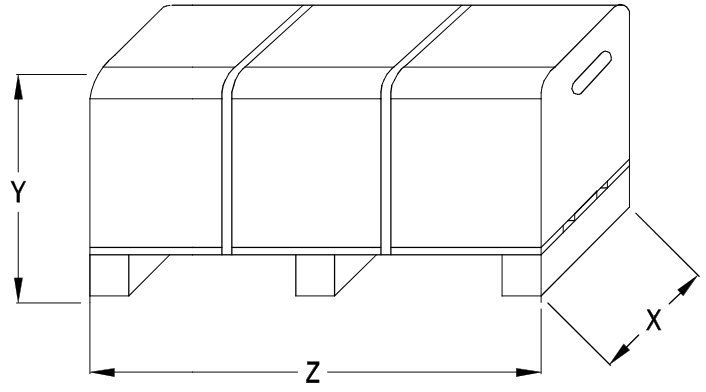
PACKING DRAWING

50 Hz

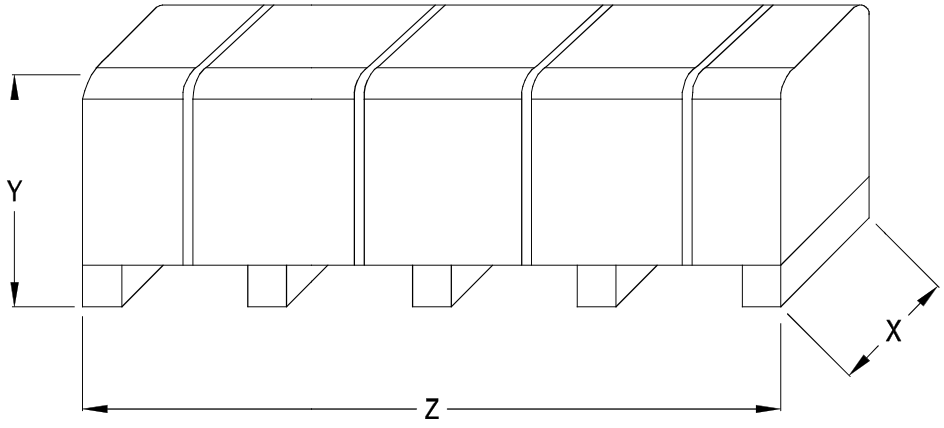
EVMSG1-3-5-10-15-20



TYPE 1



TYPE 2



TYPE 3

PACKING DATA

50 Hz

EVMSG1-3-5

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		EVMSG		X	Y	Z	EVMS(L)	EVMSG		X	Y	Z	EVMS(L)	EVMSG	
1	EVMSG1 2/0.37	385	400	385		19.3	1	385	400	585	20.2	27.2	1	385	400	585	18.9	25.9	1
	EVMSG1 3/0.37	385	400	385		19.8	1	385	400	585	20.7	27.7	1	385	400	585	19.4	26.4	1
	EVMSG1 4/0.37	385	400	385		20.2	1	385	400	770	21.5	28.4	1	385	400	770	20.2	27.1	1
	EVMSG1 5/0.37	385	400	585		21.2	1	385	400	770	22.0	28.9	1	385	400	770	20.7	27.6	1
	EVMSG1 6/0.37	385	400	585		21.6	1	385	400	770	22.4	29.3	1	385	400	770	21.1	28.0	1
	EVMSG1 7/0.37	385	400	585		22.0	1	385	400	770	22.8	29.7	1	385	400	770	21.5	28.4	1
	EVMSG1 8/0.37	385	400	585		22.5	1	385	400	770	23.3	30.2	1	385	400	770	22.0	28.9	1
	EVMSG1 9/0.55	385	400	585		22.9	1	385	400	770	25.1	32.0	1	385	400	770	22.8	29.7	1
	EVMSG1 10/0.55	385	400	585		23.3	1	385	400	770	25.5	32.4	1	385	400	770	23.2	30.1	1
	EVMSG1 11/0.55	385	400	585		23.8	1	385	400	770	26.0	32.9	1	385	400	770	23.7	30.6	1
	EVMSG1 12/0.55	385	400	585		24.5	1	385	400	770	26.7	33.6	1	385	400	970	24.4	31.3	1
	EVMSG1 13/0.55	385	400	585		25.1	1	385	400	970	27.9	34.9	1	385	400	970	25.6	32.6	1
	EVMSG1 14/0.75	385	400	770		26.3	1	385	400	970	31.5	38.5	1	385	400	970	29.6	36.6	1
	EVMSG1 16/0.75	385	400	770		27.3	1	385	400	970	32.5	39.5	1	385	400	970	30.6	37.6	1
	EVMSG1 18/1.1	385	400	770		28.4	1	385	400	970	34.0	41.0	1	385	400	970	33.3	40.3	1
	EVMSG1 20/1.1	385	400	770		29.4	1	385	400	970	35.0	42.0	1	385	400	970	34.3	41.3	1
	EVMSG1 22/1.1	385	400	770		30.6	1	385	400	1170	36.8	43.7	1	385	400	1170	36.1	43.0	1
	EVMSG1 24/1.1	385	400	970		32.0	1	385	400	1170	37.8	44.7	1	385	400	1170	37.1	44.0	1
	EVMSG1 26/1.1	385	400	970		33.0	1	385	400	1170	38.8	45.7	1	385	400	1170	38.1	45.0	1
	EVMSG1 27/1.5	385	400	970		33.4	1	400	510	1200	45.2	61.1	1 | 2	385	400	1170	41.4	48.3	1
	EVMSG1 29/1.5	385	400	970		34.4	1	500	525	1350	66.1	73.0	3	500	525	1350	62.3	69.2	3
	EVMSG1 32/1.5	385	400	1170		36.2	1	500	525	1350	67.4	74.3	3	500	525	1350	63.6	70.5	3
	EVMSG1 34/1.5	385	400	1170		37.1	1	500	525	1350	68.3	75.2	3	500	525	1350	64.5	71.4	3
	EVMSG1 37/2.2	385	400	1170		38.5	1	500	525	1540	74.1	81.9	3	500	525	1540	69.5	77.2	3
	EVMSG1 39/2.2	385	400	1170		39.5	1	500	525	1540	75.1	82.1	3	500	525	1540	68.9	75.8	3
3	EVMSG3 2/0.37	385	400	385		17.6	1	385	400	600	20.3	25.5	1	385	400	585	19.0	24.2	1
	EVMSG3 3/0.37	385	400	385		18.0	1	385	400	600	20.7	25.9	1	385	400	585	19.4	24.6	1
	EVMSG3 4/0.37	**385**	**400**	**385**		**18.5**	**1**	**385**	**400**	**770**	**21.5**	**26.8**	**1**	**385**	**400**	**770**	**20.2**	**25.5**	**1**
	EVMSG3 5/0.55	385	400	585		19.4	1	385	400	770	23.4	28.6	1	385	400	770	21.1	26.3	1
	EVMSG3 6/0.55	**385**	**400**	**585**		**19.8**	**1**	**385**	**400**	**770**	**23.8**	**29.0**	**1**	**385**	**400**	**770**	**21.5**	**26.7**	**1**
	EVMSG3 7/0.75	385	400	585		20.7	1	385	400	770	27.6	32.8	1	385	400	770	25.7	30.9	1
	EVMSG3 8/0.75	**385**	**400**	**585**		**21.2**	**1**	**385**	**400**	**770**	**28.1**	**33.3**	**1**	**385**	**400**	**770**	**26.2**	**31.4**	**1**
	EVMSG3 9/1.1	385	400	585		21.6	1	385	400	770	28.9	34.1	1	385	400	770	28.2	33.4	1
	EVMSG3 10/1.1	**385**	**400**	**585**		**22.1**	**1**	**385**	**400**	**770**	**29.4**	**34.6**	**1**	**385**	**400**	**770**	**28.7**	**33.9**	**1**
	EVMSG3 11/1.1	385	400	585		22.5	1	385	400	970	30.4	35.6	1	385	400	970	29.8	34.9	1
	EVMSG3 12/1.1	**385**	**400**	**585**		**23.2**	**1**	**385**	**400**	**970**	**31.1**	**36.3**	**1**	**385**	**400**	**970**	**30.4**	**35.6**	**1**
	EVMSG3 13/1.5	385	400	770		24.2	1	385	400	970	37.6	42.8	1	385	400	970	33.8	38.7	1
	EVMSG3 14/1.5	**385**	**400**	**770**		**24.6**	**1**	**385**	**400**	**970**	**38.0**	**43.2**	**1**	**385**	**400**	**970**	**34.2**	**39.4**	**1**
	EVMSG3 15/1.5	385	400	770		25.1	1	385	400	970	38.5	43.7	1	385	400	970	34.7	39.9	1
	EVMSG3 16/1.5	**385**	**400**	**770**		**26.1**	**1**	**385**	**400**	**970**	**39.6**	**44.7**	**1**	**385**	**400**	**970**	**35.7**	**40.7**	**1**
	EVMSG3 17/2.2	385	400	770		26.6	1	385	400	970	41.7	46.9	1	385	400	970	38.2	43.4	1
	EVMSG3 19/2.2	385	400	770		27.6	1	385	400	1170	43.3	48.5	1	385	400	1170	39.8	45.0	1
	EVMSG3 21/2.2	**385**	**400**	**770**		**28.5**	**1**	**385**	**400**	**1170**	**44.2**	**49.0**	**1**	**385**	**400**	**1170**	**40.7**	**45.9**	**1**
	EVMSG3 23/2.2	385	400	970		29.9	1	385	400	1170	45.2	49.4	1	385	400	1170	41.7	46.9	1
	EVMSG3 24/2.2	**385**	**400**	**970**		**30.4**	**1**	**385**	**400**	**1170**	**45.6**	**49.8**	**1**	**385**	**400**	**1170**	**42.1**	**47.3**	**1**
	EVMSG3 25/3.0	385	400	970		30.9	1	-	-	-	-	-	-	400	510	1200	49.5	63.7	1 | 2
	EVMSG3 27/3.0	385	400	970		31.9	1	-	-	-	-	-	-	500	525	1350	70.4	75.6	3
	EVMSG3 29/3.0	385	400	970		32.9	1	-	-	-	-	-	-	500	525	1350	71.3	76.6	3
	EVMSG3 31/3.0	385	400	1170		34.4	1	-	-	-	-	-	-	500	525	1350	72.3	77.5	3
	EVMSG3 33/3.0	385	400	1170		35.2	1	-	-	-	-	-	-	500	525	1350	73.1	78.3	3
5	EVMSG5 2/0.37	385	400	385		19.4	1	385	400	600	20.8	27.3	1	385	400	585	19.5	26.0	1
	EVMSG5 3/0.55	**385**	**400**	**385**		**19.9**	**1**	**385**	**400**	**770**	**23.1**	**29.5**	**1**	**385**	**400**	**770**	**20.8**	**27.3**	**1**
	EVMSG5 4/0.75	**385**	**400**	**585**		**21.4**	**1**	**385**	**400**	**770**	**27.0**	**33.4**	**1**	**385**	**400**	**770**	**25.1**	**31.6**	**1**
	EVMSG5 5/1.1	**385**	**400**	**585**		**21.9**	**1**	**385**	**400**	**770**	**27.9**	**34.4**	**1**	**385**	**400**	**770**	**27.2**	**33.7**	**1**
	EVMSG5 6/1.5	385	400	585		22.5	1	385	400	770	34.6	41.0	1	385	400	770	30.8	34.3	1
	EVMSG5 7/1.5	**385**	**400**	**585**		**22.9**	**1**	**385**	**400**	**970**	**35.6**	**42.0**	**1**	**385**	**400**	**970**	**31.8**	**38.2**	**1**
	EVMSG5 8/2.2	385	400	585		23.5	1	385	400	970	37.8	44.3	1	385	400	970	34.3	40.8	1
	EVMSG5 9/2.2	**385**	**400**	**585**		**24.0**	**1**	**385**	**400**	**970**	**38.4**	**44.8**	**1**	**385**	**400**	**970**	**34.9**	**41.3**	**1**
	EVMSG5 10/2.2	385	400	770		25.0	1	385	400	970	38.8	45.3	1	385	400	970	35.3	41.8	1
	EVMSG5 11/2.2	**385**	**400**	**770**		**25.8**	**1**	**385**	**400**	**970**	**39.7**	**46.1**	**1**	**385**	**400**	**970**	**36.2**	**42.6**	**1**
	EVMSG5 12/3.0	385	400	770		27.0	1	-	-	-	-	-	-	385	400	970	44.5	49.9	1
	EVMSG5 13/3.0	**385**	**400**	**770**		**27.6**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**400**	**510**	**1200**	**45.4**	**60.8**	**1 | 2**
	EVMSG5 14/3.0	385	400	770		28.2	1	-	-	-	-	-	-	400	510	1200	45.9	61.4	1 | 2
	EVMSG5 15/3.0	**385**	**400**	**770**		**29.2**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**400**	**510**	**1200**	**47.0**	**62.4**	**1 | 2**
	EVMSG5 17/4.0	385	400	970		30.3	1	-	-	-	-	-	-	400	510	1200	60.4	66.8	2
	EVMSG5 19/4.0	385	400	970		31.4	1	-	-	-	-	-	-	400	510	1200	61.5	67.9	2
	EVMSG5 20/4.0	**385**	**400**	**970**		**33.7**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**500**	**525**	**1350**	**74.6**	**81.0**	**3**
	EVMSG5 23/5.5	385	400	1170		40.9	1	-	-	-	-	-	-	500	525	1540	96.1	102.5	3
	EVMSG5 25/5.5	385	400	1170		41.9	1	-	-	-	-	-	-	500	525	1540	97.1	103.5	3
	EVMSG5 27/5.5	500	525	1350		63.8	3	-	-	-	-	-	-	500	525	1540	98.6	105.1	3

PACKING DATA

50 Hz

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
10	**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
	EVMSG 10 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
15	**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
20	**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

TECHNICAL MOTOR DATA

50 Hz

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 [kW]	Power [HP]	Noise LpA - dB(A) *
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	