



EVMSG

Vertical Multistage Pumps



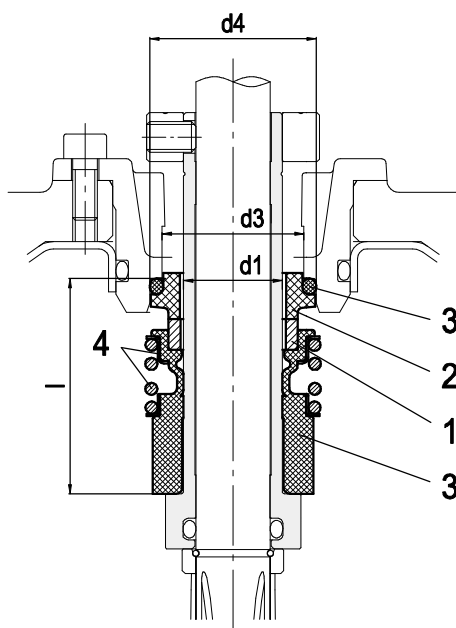
**with unique low axial
thrust impeller design**

Any motor • Anywhere

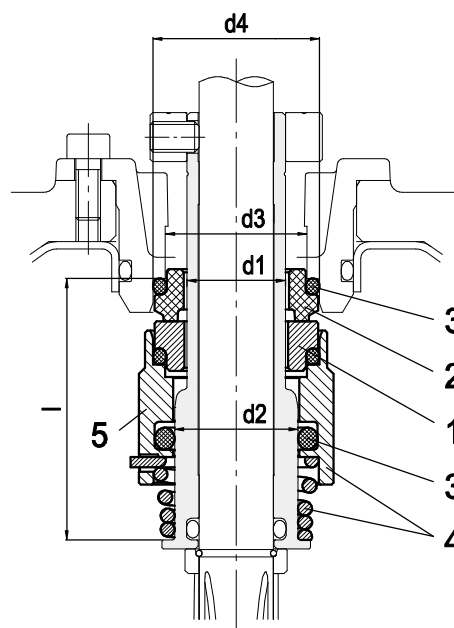


PUMP		
EVMSG		
Operating range	Maximum working pressure	1.6 / 2.5 MPa (16 bar/ 25 bar)
	Liquid temperature range	-30°C to 140°C
Key Components Material	Impeller	EN 1.4301 (AISI 304)
	Intermediate casing	EN 1.4301 (AISI 304)
	Liner ring	EN 1.4301 (AISI 304) + PPS
	Bottom casing	Cast Iron
	Casing cover	EN 1.4301 (AISI 304)
	Shaft	EN 1.4301 (AISI 304)
		EN 1.4462 (AISI 329A)
	Shaft sleeve bearing	Tungsten carbide
	Shaft Seal	See the shaft seal options
	O-ring	EPDM
		FPM
	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
		from 5.5 kW
	Base	Cast Iron
Pipe connection	Oval flange	up to 16 bar
	Round flange (DIN)	up to 16 bar
		from 16 bar to 25 bar

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)	



up to 16 bar
Cartridge Unbalanced type



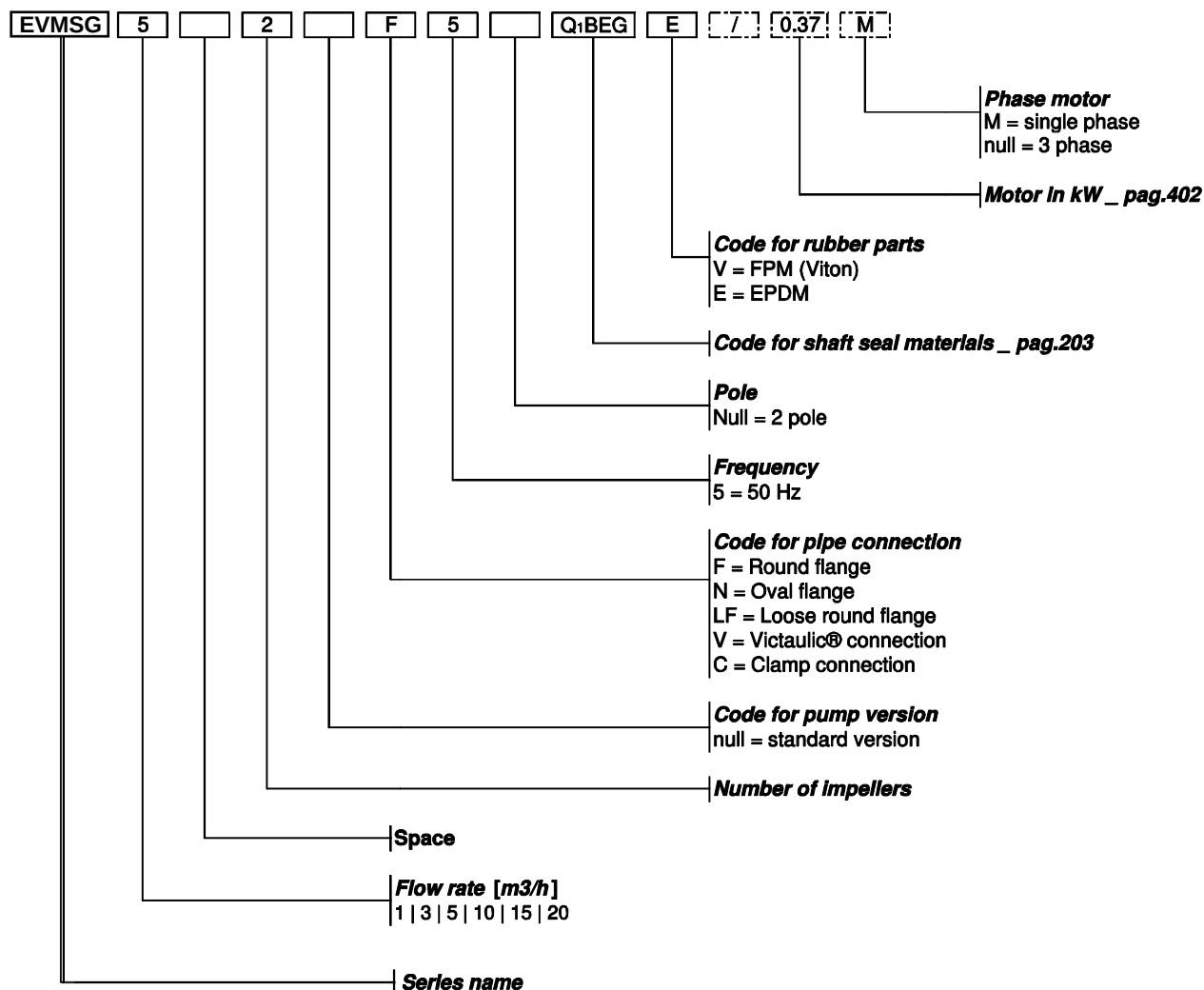
from 16 to 25 bar
Cartridge Balanced type

Legend: ● Standard ○ Options () Type key

Pump model	Max liquid temperature range	Shaft seal type Cartridge		Shaft seal material					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 ₃)	SiC (Q ₁)	EPDM (E)	AISI316 (G)		HQ ₃ Q ₁ EG
	- 30°C to + 80°C		○	SiC with graphite (Q ₃)	SiC (Q ₁)	FPM (V)	AISI316 (G)		HQ ₃ 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 ₃)	SiC (Q ₁)	EPDM (E)	AISI316 (G)		HQ ₃ Q ₁ EG
	- 30°C to + 80°C		○	SiC with graphite (Q ₃)	SiC (Q ₁)	FPM (V)	AISI316 (G)		HQ ₃ 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

						MADE IN ITALY						
TYPE		①										
☐	H _{max}		④		m		H _{min}	⑤		m		☐
Q		②		l/min		H		③		m		
P ₂		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

SELECTION CHART

50 Hz

EVMSG 1-3-5

	Pump Type		Motor			Maximum working pressure (MPa)	Q=Capacity									
							l/min	0	12	20	30	40	60	75	100	130
	Single phase	Three phase	kW	HP	Size		m³/h	0	0.72	1.2	1.8	2.4	3.6	4.5	6	7.8
H=Total manometric head in meters																
1	EVMSG1 2/0.37M	EVMSG1 2/0.37	0.37	0.5	71	1.6	11.9	11.2	10.4	9.1	7.1	-	-	-	-	
	EVMSG1 3/0.37M	EVMSG1 3/0.37	0.37	0.5	71		17.9	16.8	15.6	13.6	10.6	-	-	-	-	
	EVMSG1 4/0.37M	EVMSG1 4/0.37	0.37	0.5	71		23.8	22.4	20.8	18.2	14.2	-	-	-	-	
	EVMSG1 5/0.37M	EVMSG1 5/0.37	0.37	0.5	71		30	28	26	22.7	17.7	-	-	-	-	
	EVMSG1 6/0.37M	EVMSG1 6/0.37	0.37	0.5	71		35.8	33.6	31.2	27.3	21.2	-	-	-	-	
	EVMSG1 7/0.37M	EVMSG1 7/0.37	0.37	0.5	71		41.5	39.2	36.4	31.8	24.8	-	-	-	-	
	EVMSG1 8/0.37M	EVMSG1 8/0.37	0.37	0.5	71		47.5	44.5	41.5	36.4	28.3	-	-	-	-	
	EVMSG1 9/0.55M	EVMSG1 9/0.55	0.55	0.75	71		53.5	50.5	47	41	31.8	-	-	-	-	
	EVMSG1 10/0.55M	EVMSG1 10/0.55	0.55	0.75	71		59.6	56	52	45.5	35.4	-	-	-	-	
	EVMSG1 11/0.55M	EVMSG1 11/0.55	0.55	0.75	71		65.5	61.5	57	50	38.9	-	-	-	-	
	EVMSG1 12/0.55M	EVMSG1 12/0.55	0.55	0.75	71		71.5	67	62.5	54.5	42.5	-	-	-	-	
	EVMSG1 13/0.55M	EVMSG1 13/0.55	0.55	0.75	71		77.5	73	67.5	59	46	-	-	-	-	
	EVMSG1 14/0.75M	EVMSG1 14/0.75	0.75	1	80		83.5	78.5	73	63.5	49.5	-	-	-	-	
	EVMSG1 16/0.75M	EVMSG1 16/0.75	0.75	1	80		95.5	89.5	83	72.5	56.5	-	-	-	-	
	EVMSG1 18/1.1M	EVMSG1 18/1.1	1.1	1.5	80		107	101	93.5	82	63.5	-	-	-	-	
	EVMSG1 20/1.1M	EVMSG1 20/1.1	1.1	1.5	80		119	112	104	91	71	-	-	-	-	
	EVMSG1 22/1.1M	EVMSG1 22/1.1	1.1	1.5	80		131	123	114	100	78	-	-	-	-	
	EVMSG1 24/1.1M	EVMSG1 24/1.1	1.1	1.5	80		143	135	125	109	85	-	-	-	-	
	EVMSG1 26/1.1M	EVMSG1 26/1.1	1.1	1.5	80	155	146	135	118	92	-	-	-	-		
	EVMSG1 27/1.5M	EVMSG1 27/1.5	1.5	2	90 S	161	151	140	123	95.5	-	-	-	-		
	EVMSG1 29/1.5M	EVMSG1 29/1.5	1.5	2	90 S	173	163	151	132	103	-	-	-	-		
	EVMSG1 32/1.5M	EVMSG1 32/1.5	1.5	2	90 S	191	179	166	145	113	-	-	-	-		
	EVMSG1 34/1.5M	EVMSG1 34/1.5	1.5	2	90 S	203	191	177	155	120	-	-	-	-		
	EVMSG1 37/2.2M	EVMSG1 37/2.2	2.2	3	90 L	221	207	192	168	131	-	-	-	-		
	EVMSG1 39/2.2M	EVMSG1 39/2.2	2.2	3	90 L	232	219	203	177	138	-	-	-	-		
	3	EVMSG3 2/0.37M	EVMSG3 2/0.37	0.37	0.5	71	1.6	14.7	-	14.1	13.6	12.9	10.9	8.3	-	-
EVMSG3 3/0.37M		EVMSG3 3/0.37	0.37	0.5	71	22.1		-	21.1	20.4	19.4	16.4	12.5	-	-	
EVMSG3 4/0.37M		EVMSG3 4/0.37	0.37	0.5	71	29.5		-	28.2	27.1	25.8	21.9	16.7	-	-	
EVMSG3 5/0.55M		EVMSG3 5/0.55	0.55	0.75	71	36.9		-	35.2	33.9	32.3	27.4	20.9	-	-	
EVMSG3 6/0.55M		EVMSG3 6/0.55	0.55	0.75	71	44.2		-	42.5	40.5	38.8	32.8	25	-	-	
EVMSG3 7/0.75M		EVMSG3 7/0.75	0.75	1	80	51.5		-	49.5	47.5	45	38.3	29.2	-	-	
EVMSG3 8/0.75M		EVMSG3 8/0.75	0.75	1	80	59		-	56.5	54.5	51.5	44	33.4	-	-	
EVMSG3 9/1.1M		EVMSG3 9/1.1	1.1	1.5	80	66.5		-	63.5	61	58	49	37.6	-	-	
EVMSG3 10/1.1M		EVMSG3 10/1.1	1.1	1.5	80	73.5		-	70.5	68	64.5	54.5	41.5	-	-	
EVMSG3 11/1.1M		EVMSG3 11/1.1	1.1	1.5	80	81		-	77.5	74.5	71	60	46	-	-	
EVMSG3 12/1.1M		EVMSG3 12/1.1	1.1	1.5	80	88.5		-	84.5	81.5	77.5	65.5	50	-	-	
EVMSG3 13/1.5M		EVMSG3 13/1.5	1.5	2	90 S	96		-	91.5	88	84	71	54.5	-	-	
EVMSG3 14/1.5M		EVMSG3 14/1.5	1.5	2	90 S	103		-	98.5	95	90.5	76.5	58.5	-	-	
EVMSG3 15/1.5M		EVMSG3 15/1.5	1.5	2	90 S	111		-	106	102	97	82	62.5	-	-	
EVMSG3 16/1.5M		EVMSG3 16/1.5	1.5	2	90 S	118		-	113	109	103	87.5	67	-	-	
EVMSG3 17/2.2M		EVMSG3 17/2.2	2.2	3	90 L	125		-	120	115	110	93	71	-	-	
EVMSG3 19/2.2M		EVMSG3 19/2.2	2.2	3	90 L	140		-	134	129	123	104	79.5	-	-	
EVMSG3 21/2.2M		EVMSG3 21/2.2	2.2	3	90 L	155		-	148	142	136	115	87.5	-	-	
EVMSG3 23/2.2M		EVMSG3 23/2.2	2.2	3	90 L	170	-	162	156	149	126	96	-	-		
EVMSG3 24/2.2M		EVMSG3 24/2.2	2.2	3	90 L	177	-	169	163	155	131	100	-	-		
-		EVMSG3 25/3.0	3.0	4	100 L	184	-	176	170	161	137	104	-	-		
-		EVMSG3 27/3.0	3.0	4	100 L	199	-	190	183	174	148	113	-	-		
-		EVMSG3 29/3.0	3.0	4	100 L	214	-	204	197	187	159	121	-	-		
-		EVMSG3 31/3.0	3.0	4	100 L	229	-	218	210	200	170	129	-	-		
-		EVMSG3 33/3.0	3.0	4	100 L	243	-	232	224	213	181	138	-	-		
5		EVMSG5 2/0.37M	EVMSG5 2/0.37	0.37	0.5	71	1.6	19	-	-	-	18	17.1	16	13.8	10.2
	EVMSG5 3/0.55M	EVMSG5 3/0.55	0.55	0.75	71	28.4		-	-	-	26.9	25.6	23.9	20.7	15.3	
	EVMSG5 4/0.75M	EVMSG5 4/0.75	0.75	1	80	37.9		-	-	-	35.9	34.1	31.9	27.6	20.4	
	EVMSG5 5/1.1M	EVMSG5 5/1.1	1.1	1.5	80	47.5		-	-	-	45	42.5	39.9	34.5	25.5	
	EVMSG5 6/1.5M	EVMSG5 6/1.5	1.5	2	90 S	57		-	-	-	54	51	48	41.5	30.6	
	EVMSG5 7/1.5M	EVMSG5 7/1.5	1.5	2	90 S	66.5		-	-	-	63	59.5	56	48.5	35.7	
	EVMSG5 8/2.2M	EVMSG5 8/2.2	2.2	3	90 L	76		-	-	-	72	68	64	55	41	
	EVMSG5 9/2.2M	EVMSG5 9/2.2	2.2	3	90 L	85.5		-	-	-	81	77	72	62	46	
	EVMSG5 10/2.2M	EVMSG5 10/2.2	2.2	3	90 L	95		-	-	-	90	85.5	80	69	51	
	EVMSG5 11/2.2M	EVMSG5 11/2.2	2.2	3	90 L	104		-	-	-	98.5	94	87.5	76	56	
	-	EVMSG5 12/3.0	3.0	4	100 L	114		-	-	-	108	102	95.5	83	61	
	-	EVMSG5 13/3.0	3.0	4	100 L	123	-	-	-	117	111	104	89.5	66.5		
	-	EVMSG5 14/3.0	3.0	4	100 L	133	-	-	-	126	119	112	96.5	71.5		
	-	EVMSG5 15/3.0	3.0	4	100 L	142	-	-	-	135	128	120	104	76.5		
	-	EVMSG5 17/4.0	4.0	5.5	112 M	161	-	-	-	153	145	136	117	86.5		
	-	EVMSG5 19/4.0	4.0	5.5	112 M	180	-	-	-	171	162	152	131	97		
	-	EVMSG5 20/4.0	4.0	5.5	112 M	190	-	-	-	179	171	160	138	102		
	-	EVMSG5 23/5.5	5.5	7.5	132 S	218	-	-	-	206	196	183	159	117		
	-	EVMSG5 25/5.5	5.5	7.5	132 S	237	-	-	-	224	213	199	173	127		
	-	EVMSG5 27/5.5	5.5	7.5	132 S	256	-	-	-	242	230	215	186	138		

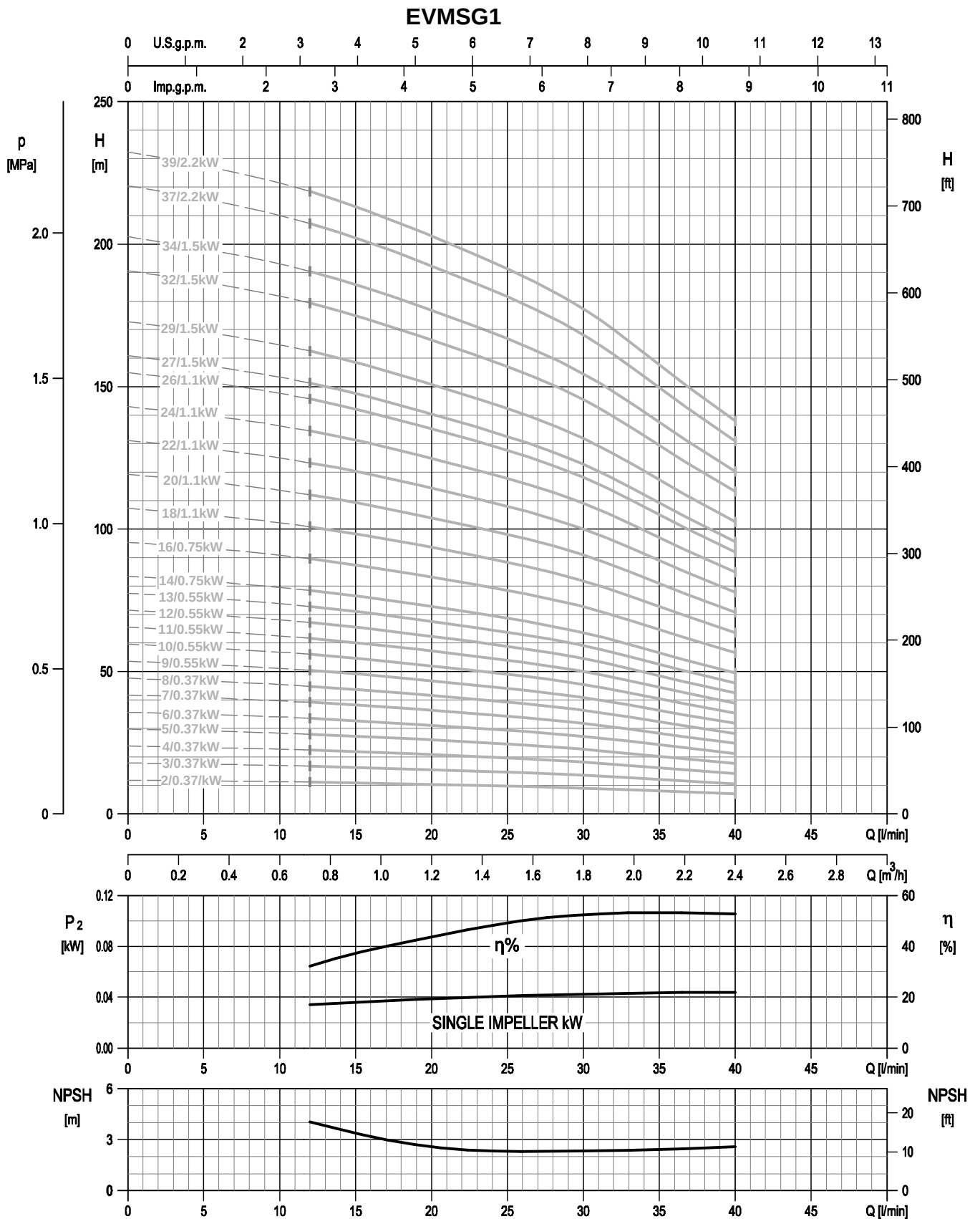
1.6 MPa=16 bar ; 2.5 MPa=25 bar

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EVMSG 10-15-20

Pump Type		kW	Motor HP	Size	Maximum working pressure (MPa)	Q=Capacity																
						l/min	0	75	100	130	150	180	200	250	300	350	400	450	480			
Single phase		Three phase				m³/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			
						H=Total manometric head in meters																
10	EVMSG10 2/0.75M	EVMSG10 2/0.75	0.75	1	80	1.6	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	1.6	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	1.6	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			

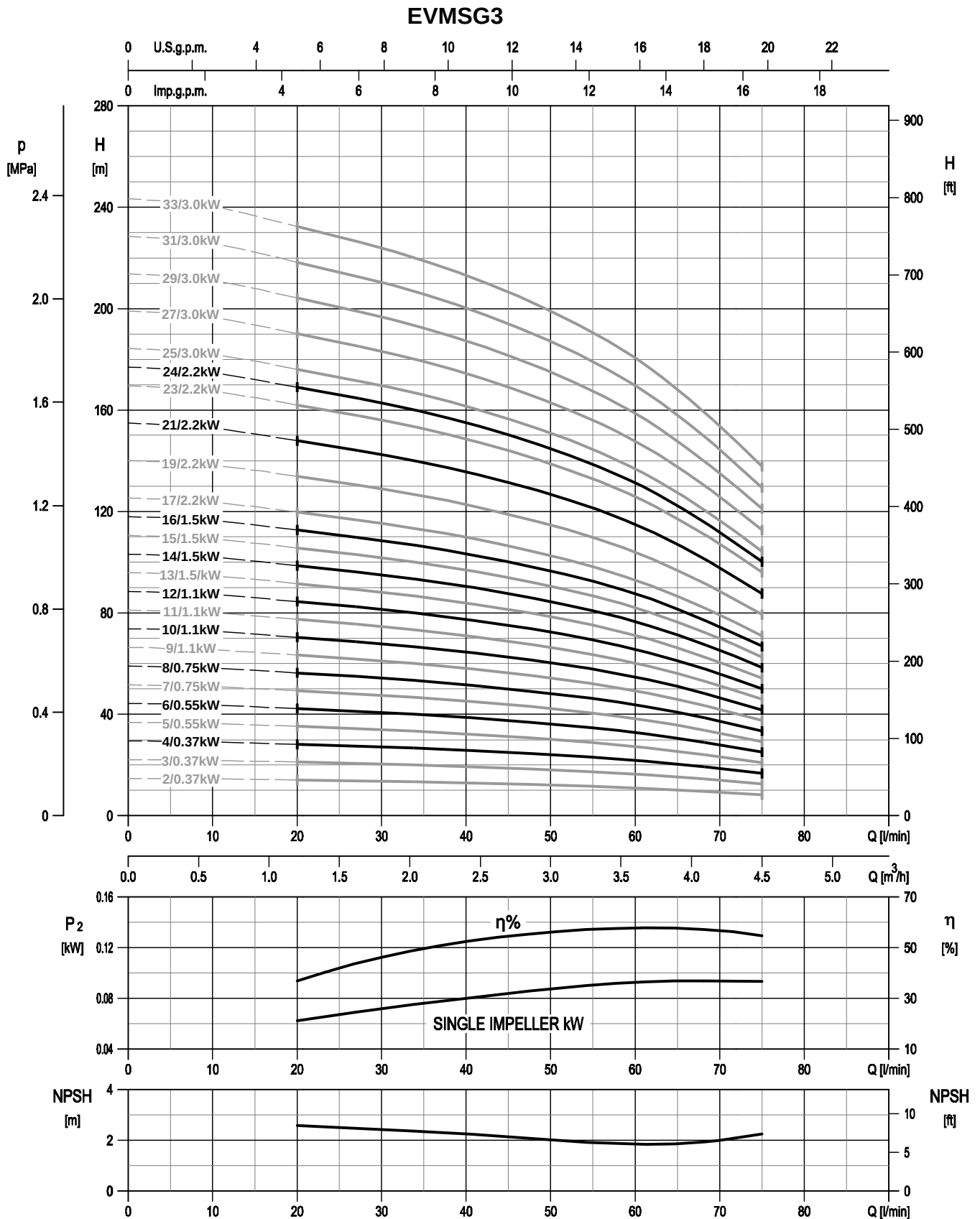
1.6 MPa=16 bar ; 2.5 MPa=25 bar



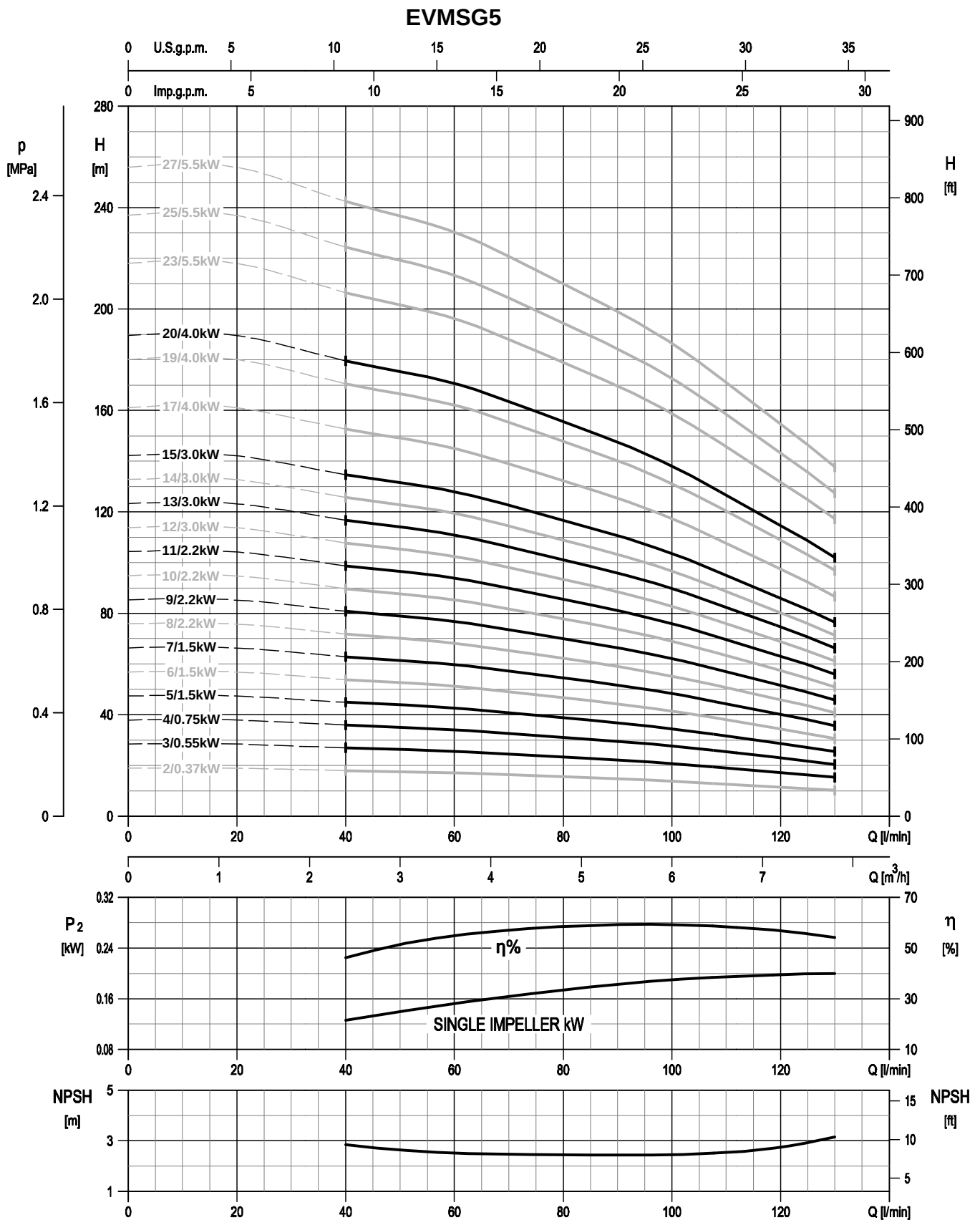
Rotation speed 2900 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

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 1.4301 (AISI 304)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M8	
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. 129.54x5.34	OR 6510
115-4	O-Ring (cartridge sleeve)	EPDM	D. 11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM	D. 32.99x2.62	OR 3131
117	Flange gasket	EPDM		
120-1	Tie-rod	Galvanized steel 6.8 strength 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 strength class ISO 898/1	M6x20	ISO 4017
	MEC 71-80 MEC 90		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	D. 4x32	UNI 4838
135-1	Washer	Galvanized steel	D. 10.5x21x2	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)		



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



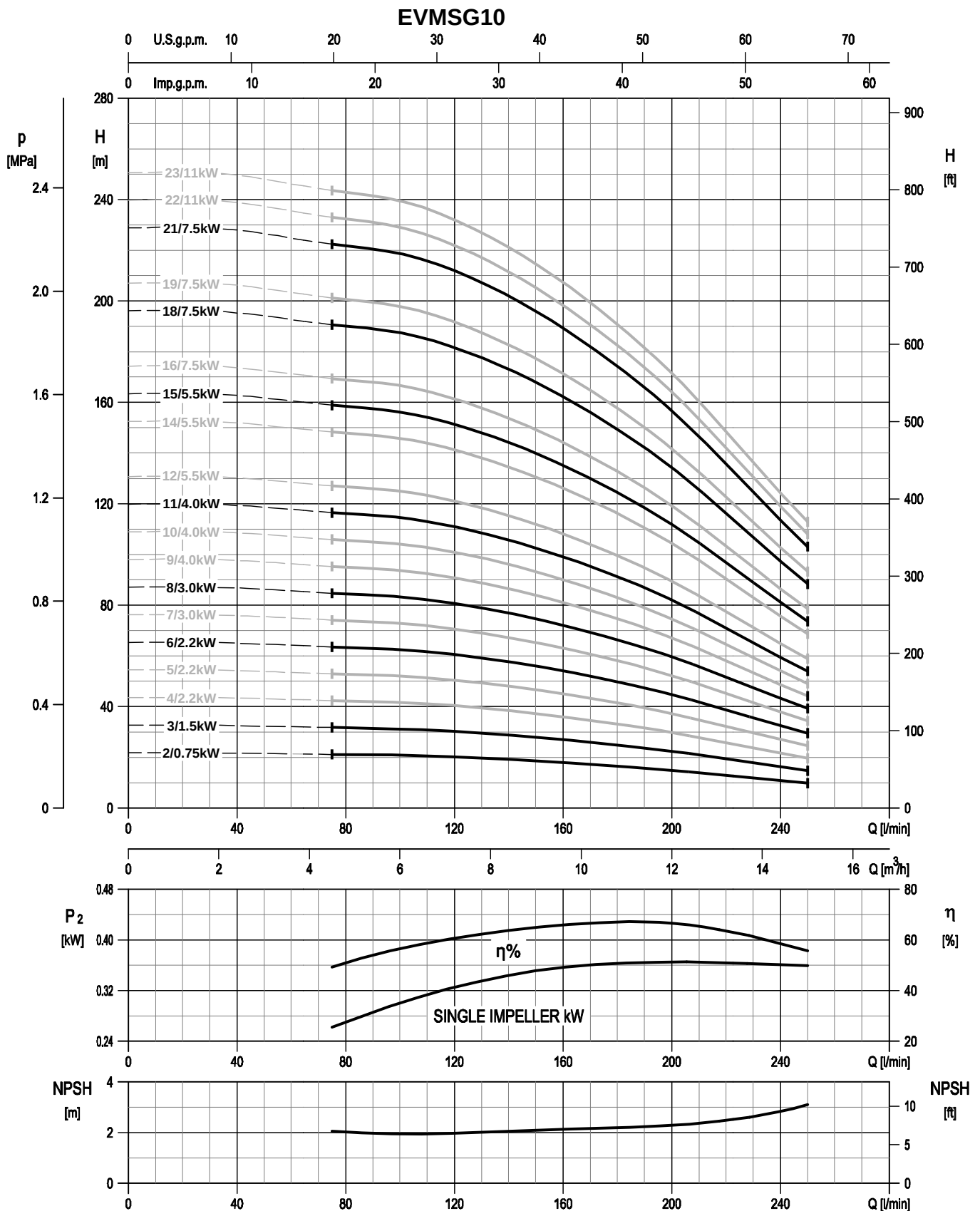
Rotation speed 2900 min⁻¹
 Test standard: ISO 9906:2012 - Grade 3B

SECTIONAL TABLE

50 Hz

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-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 1.4404 (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 1.4301 (AISI 304)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	M8	
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. 129.54x5.34	OR 6510
115-4	O-Ring (cartridge sleeve)	EPDM	D. 11.91x2.62	OR 115
115-5	O-Ring (seal cover)	EPDM	D. 32.99x2.62	OR 3131
117	Flange gasket	EPDM		
120-1	Tie-rod	Galvanized steel 6.8 strength 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
	up to 4.0 kW 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 strength class ISO 898/1	M6x20	ISO 4017
	MEC 71-80		M8x20	ISO 4017
	MEC 90-100-112 MEC 132		M12x40	ISO 4017
128-1	Nut for tie rod	Galvanized steel	M10	UNI 5588
128-3	Nut (motor)	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	D. 4x32	UNI 4838
135-1	Washer	Galvanized steel	D. 10.5x21x2	UNI 6592
135-6	Washer	Carbon Steel	Ø6	
137-1	Impeller spacer	EN 1.4301 (AISI 304)		
140	Coupling	Die cast aluminium EN AB-AISI11Cu2 (Fe)		
	up to 4.0 kW 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)		



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

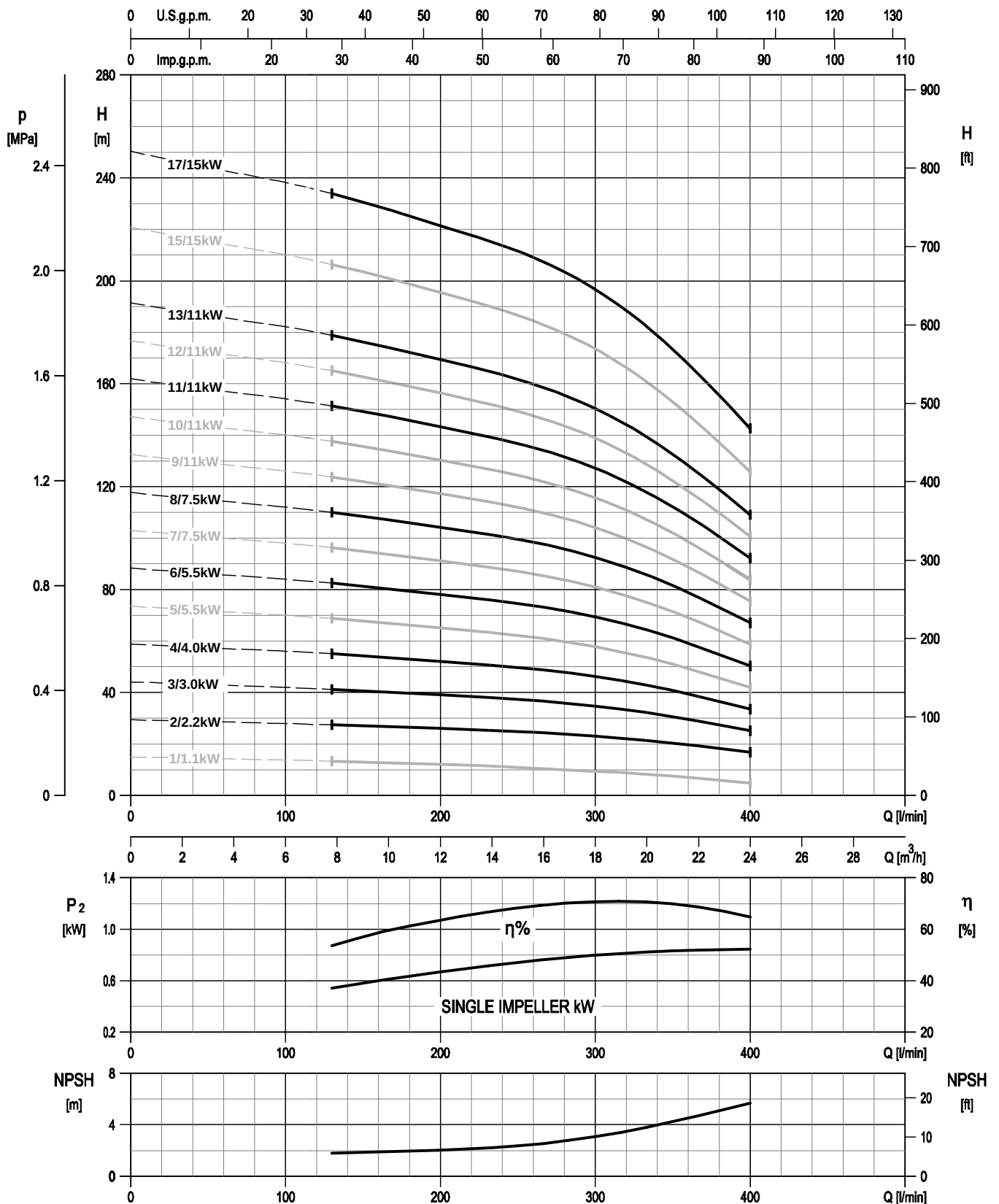
SECTIONAL TABLE

50 Hz

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-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)		
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	M6x25	ISO 4762
			M8x20	ISO 4762
			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	M6x20	ISO 4017
			M8x20	ISO 4017
			M12x40	UNI 5739
			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	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	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)		

EVMSG15



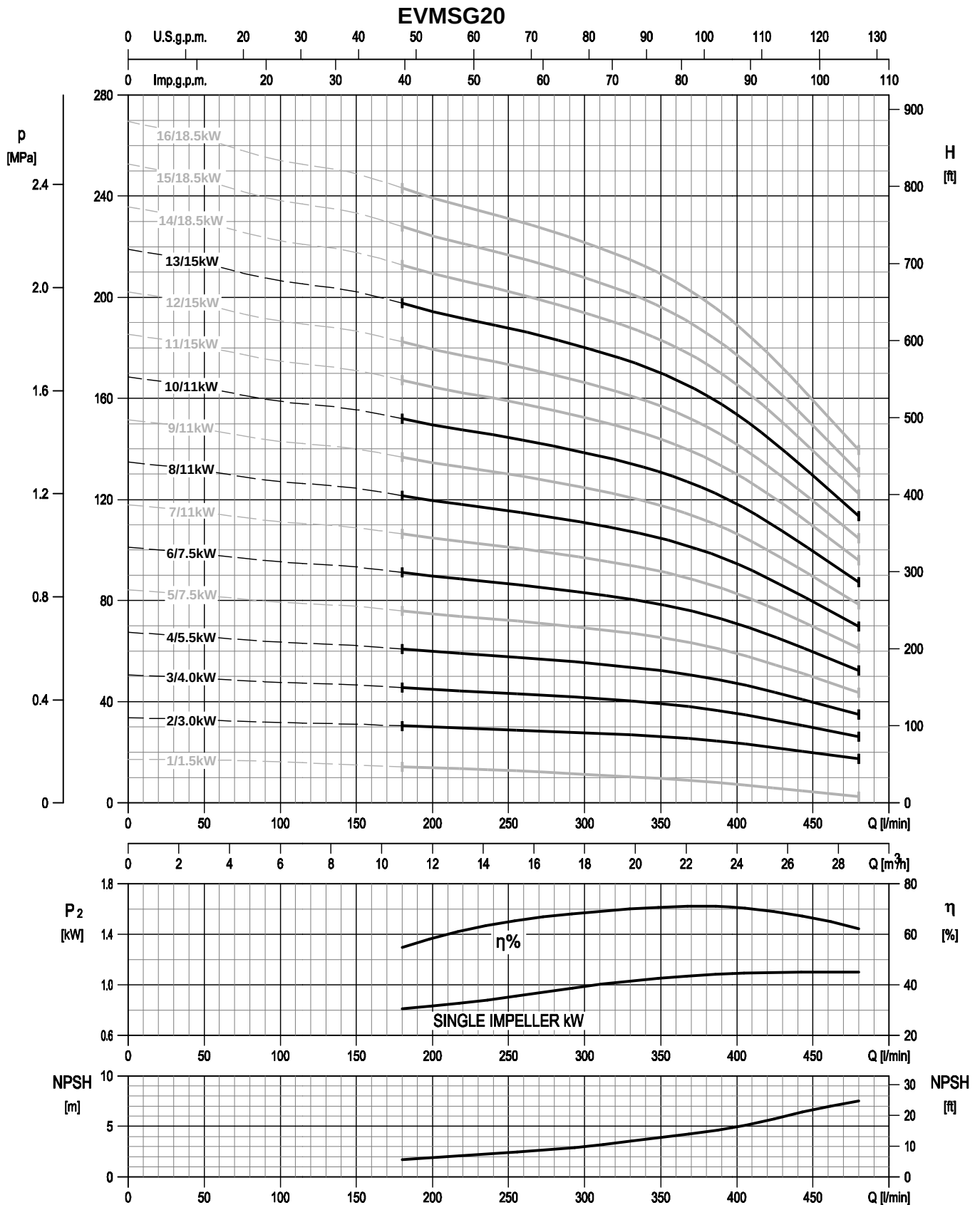
Rotation speed 2900 min⁻¹
Test standard: ISO 9906:2012 - Grade 3B

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	M6x25	ISO 4762
	up to 4.0 kW		M8x20	ISO 4762
	from 5.5 kW to 7.5 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	M6x20	ISO 4017
	MEC 80		M8x20	ISO 4017
	MEC 90-100-112		M12x40	UNI 5739
	MEC 132		M16x50	ISO 4017
	MEC 160			
128-1	Nut for tie rod	Galvanized steel	M12	UNI 5588
128-3	Nut (motor)	Galvanized steel	M12	UNI 5588
	MEC 132		M16	ISO 4032
	MEC 160			
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	Die cast Aluminium EN AB-AISI11Cu2 (Fe)		
	up to 4.0 kW	Cast Iron		
	above 5.5 kW			
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)		



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

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 MEC 160	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	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)		