



Japanese Technology since 1912

EVMS - Vertical Multistage Pumps





Japanese Technology since 1912

Built like a Katana

Katana 300
Katana

가 100
가

'EVMS'

가

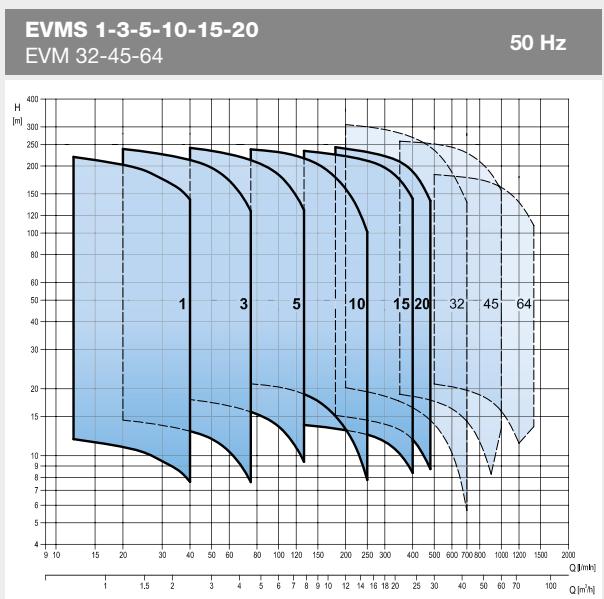
'EVMS'

가





- EBARA
- EVMS
- 1, 3, 5, 10, 15, 20 m³/h flow sizes
- () 16 bar or 25 bar / - 30 to + 140 °C
- () EVMS (AISI 304), EVMSL (AISI 316), EVMSG (Cast iron)
- Round flange / Loose Flange / Oval flange / Victaulic® / Clamp
- High Efficiency motor IE3 over 0.75 kW, 50 Hz / 60Hz,
/ PTC as standard for the above 1.5 kW



1



Any motor, anywhere.

-
-
-
-
-
- MEI > 0.7
- n.VI2014A000271

2



- IE3 0.75 kW Eup 2005/32/EC ErP 2009/125/EC
- VFD EVMS

3 :

Material	Round flange DIN (incl. ANSI depending on models)	Loose Flange DIN (incl. ANSI depending on models)	Oval Flange	Plug-In connection (Victaulic®, Clamp)
AISI304/ AISI316				
Cast Iron				

4



- B: Resin impregnated carbon graphite
- Q: Sintered silicon carbide
- Qg: Silicon carbide with carbon graphite
- Carbon or graphite inclusions with silicon carbide can be used as **dry lubricant to reduce friction**.
- It's conforming to EN12756 (ex DIN 24960)

5



가가

가

6



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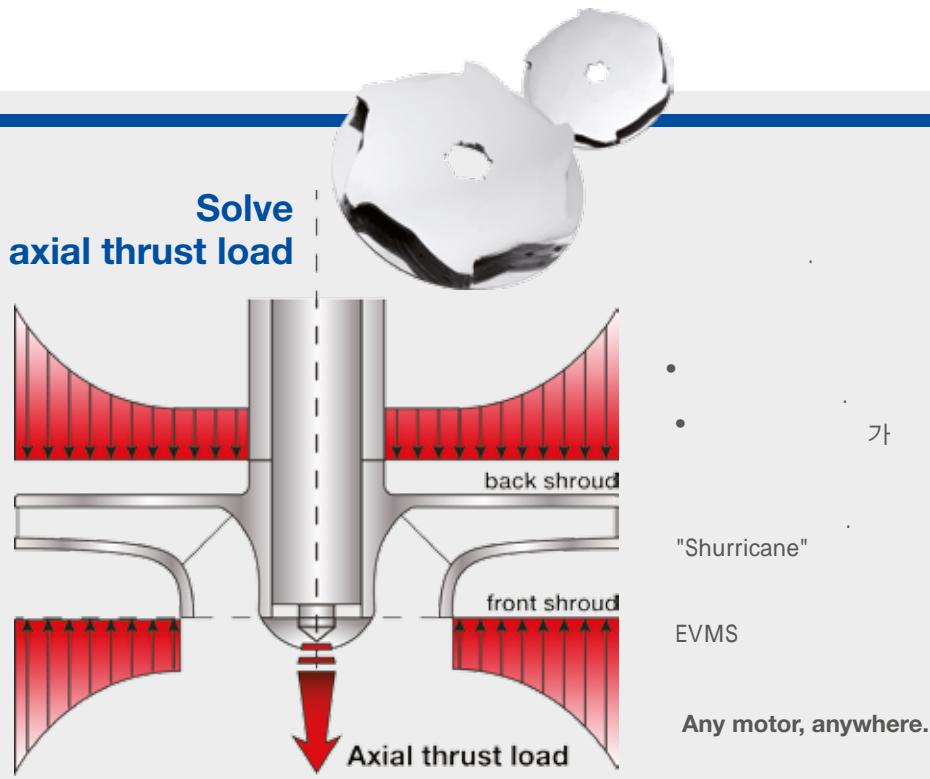
1
Million

2
Times

3
Times

*

* for main components





INDUSTRY

• Water treatment

reverse osmosis
ultra-filtration
water purification
micro-filtration
softening, ionizing
and demineralising systems
swimming pools
separators

• Boiler feeding

steam systems
condensate systems

• Wash and clean

vehicle washing systems
industrial part washing
laundry systems
supply of liquids with acids and bases
supply of chemical liquids

• Chilling

handling of refrigerants for cooling
thermal control systems
industrial cooling
laser cooling

• Machine tooling

cooling lubricant supply for tooling machines

• Pressure boosting

pressure boosting for industrial use

• Food & beverage

food washing systems

bottle wash systems

• Pharmaceutical industries

• Marine applications

freshwater, deckwash, high fog and fire fighting on ships



BUILDING SERVICE

• Pressure boosting

pressure boosting for buildings
pressure boosting for high rise buildings/hotels

• Sprinkler systems

• Fire fighting systems

jockey pump

• District heating

• Heat exchangers / fan heaters

• Air conditioning systems

• Heating systems



WATER SUPPLY

• Water treatment

water treatment plants filtration
water treatment plants transfer

• Pressure boosting

transfer from water treatment plants (mains)

• Irrigation

golf course / sport fields irrigation

• Agriculture

sprinkler irrigation

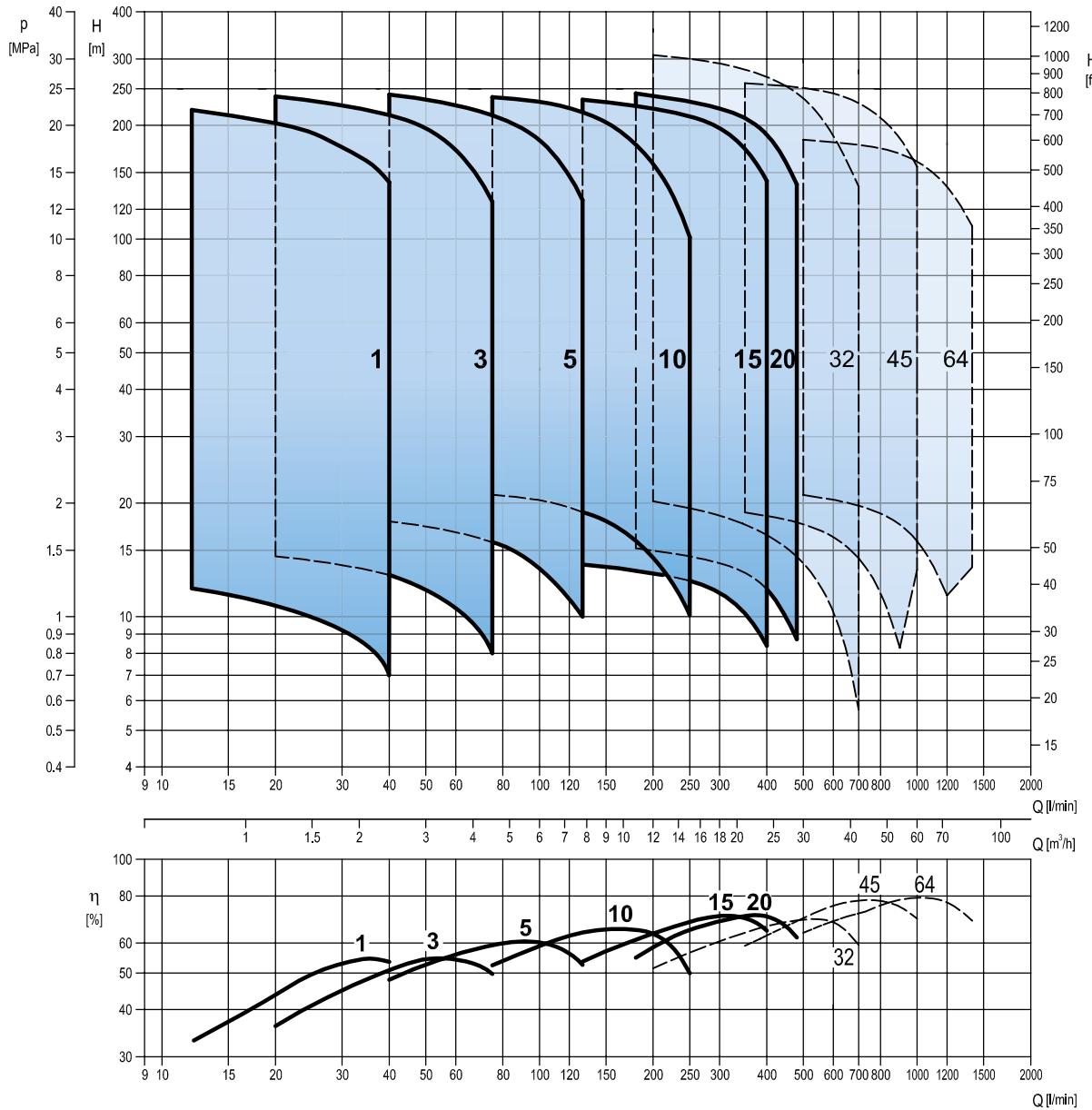
drip irrigation



please see the contact list on page 21.

EVMS



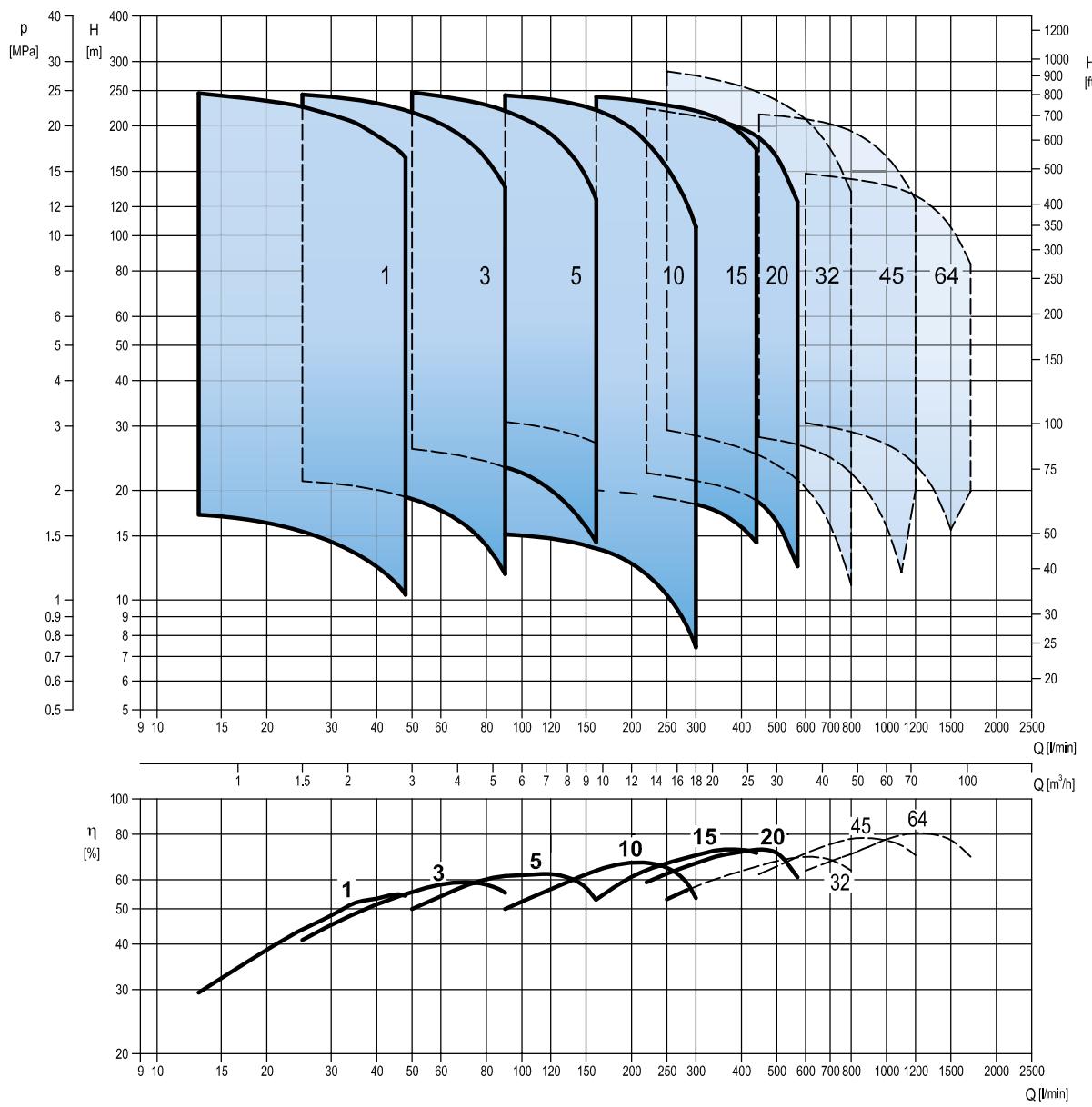
50Hz**EVMS 1-3-5-10-15-20****EVM 32-45-64****Minimum efficiency index (MEI)**

Pump type	MEI
EVMS(.)1	> 0.70
EVMS(.)3	> 0.70
EVMS(.)5	> 0.70
EVMS(.)10	> 0.70
EVMS(.)15	> 0.70
EVMS(.)20	> 0.70

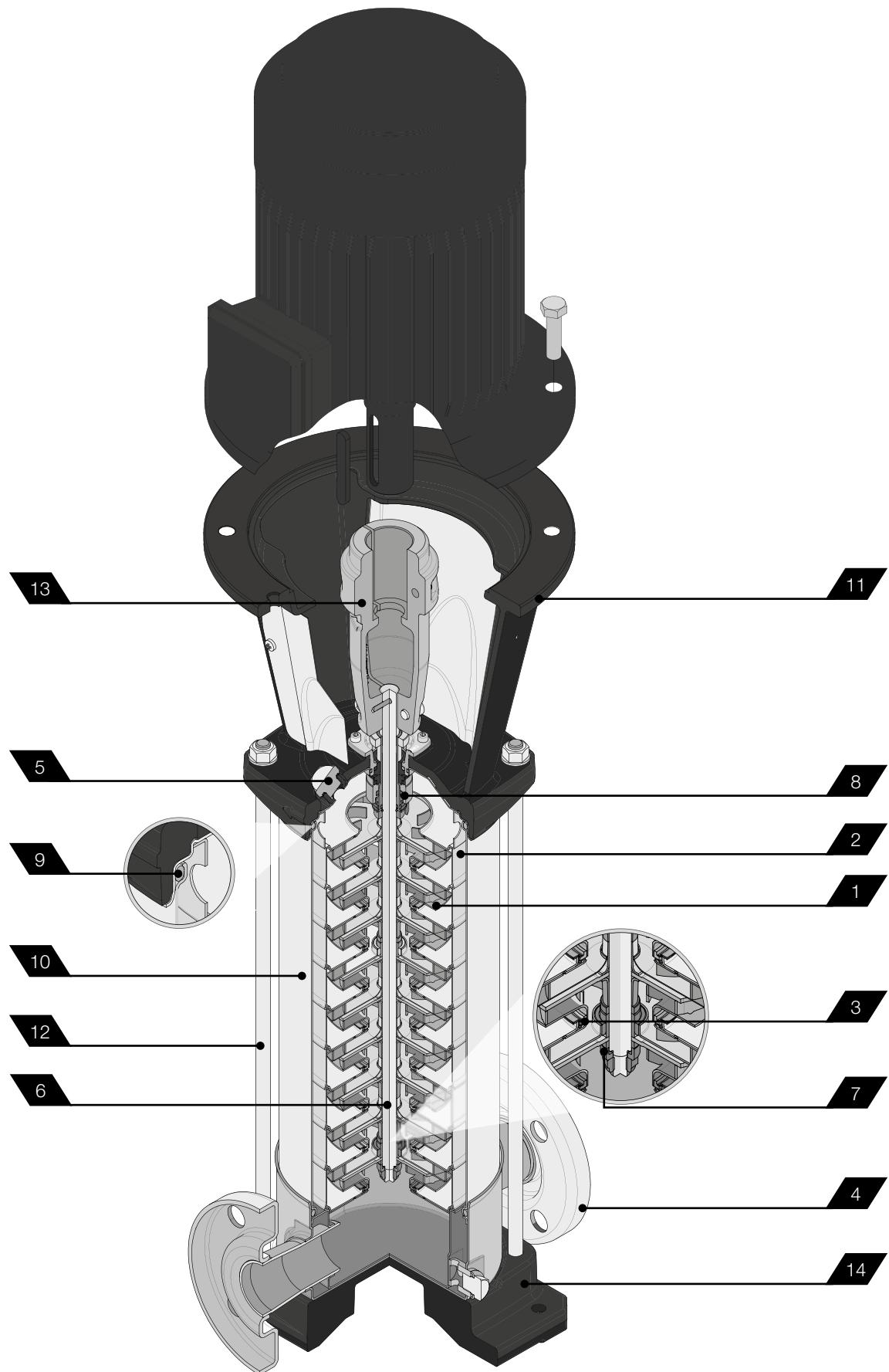
60Hz

EVMS 1-3-5-10-15-20

EVM 32-45-64



EVMS 1-3-5-10-15-20



EVMS 1-3-5-10-15-20

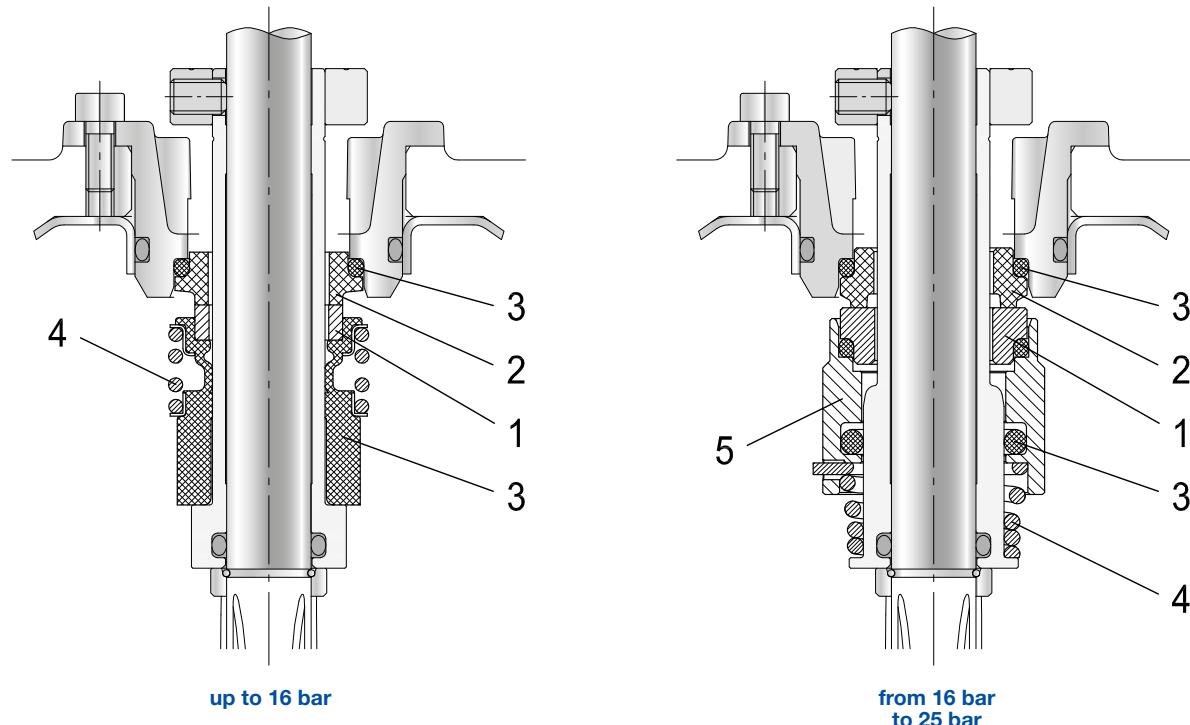
Pump

	Version	EVMSG						EVMS						EVMSL									
Operating range	Nominal flow rate (m³/h)	1	3	5	10	15	20	1	3	5	10	15	20	1	3	5	10	15	20				
	Maximum working pressure	1.6/2.5 MPa (16 bar/25 bar)																					
	Maximum liquid temperature range	-30° to 140°C																					
Key Components Materials	1. Impeller	EN 1.4301 (AISI 304)											EN 1.4401 (AISI 316)										
	2. Intermediate casing	EN 1.4301 (AISI 304)											EN 1.4401 (AISI 316)										
	3. Liner ring	EN 1.4301 (AISI 304) + PPS											EN 1.4401 (AISI 316) + PPS										
	4. Bottom casing	Cast Iron					EN 1.4301 (AISI 304)					EN 1.4401 (AISI 316)											
	5. Casing cover	EN 1.4301 (AISI 304)											EN 1.4401 (AISI 316)										
	EN 1.4301 (AISI 304)	EVMS(G) 1-3-10 EVMSG 5-15-20 (depend on models)																					
	6. Shaft	EN 1.4404 (AISI 316L) EVMSL 1-3-10 EVMSL5-15-20 (depend on models)																					
	EN 1.4460 (AISI 329A)	EVMS(G)(L) 5-15-20 (depend on models)																					
	7. Shaft sleeve bearing	Tungsten carbide																					
	8. Shaft seal	Please see the shaft seal options on page 18.																					
Pipe Connection	9. O ring	EPDM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	FPM	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
	10. Outer casing	EN 1.4301 (AISI 304)											EN 1.4404 (AISI 316L)										
	11. Motor bracket	Cast Iron																					
	12. Tie rod	Galvanized steel 6.8 strength class ISO 898/1																					
	13. Coupling	Die cast aluminium (up to 4 kW), Cast iron (from 5.5 kW)																					
	14. Base	Cast iron					Die cast aluminium																
	Oval flange	up to 16 bar	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	Round flange DIN (EVMS(L)1-3-5 DIN/ANSI)	up to 16 bar	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
		from 16 bar to 25 bar	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
Motor	Loose Flange DIN (EVMS(L)1-3-5 DIN/ANSI)	up to 16 bar							○	○	○	○	○	○	○	○	○	○	○				
		from 16 bar to 25 bar							○	○	○	○	○	○	○	○	○	○	○				
	Victaulic®	up to 25 bar							○	○	○	○	○	○	○	○	○	○	○				
	Clamp	up to 25 bar							○	○	○	○	○	○	○	○	○	○	○				

Legend: ● Standard ○ Options

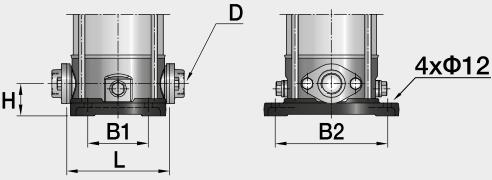
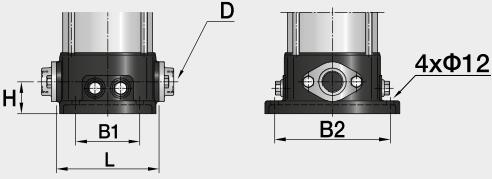
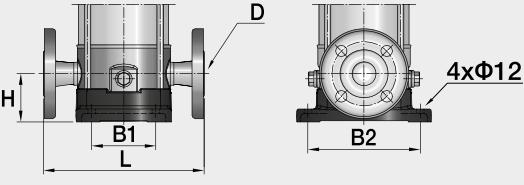
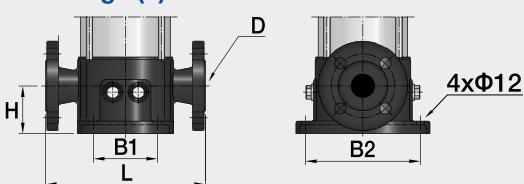
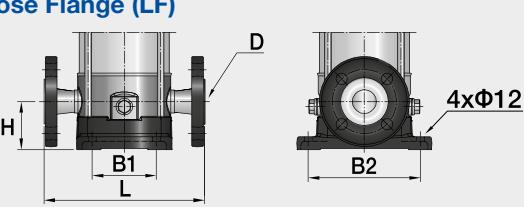
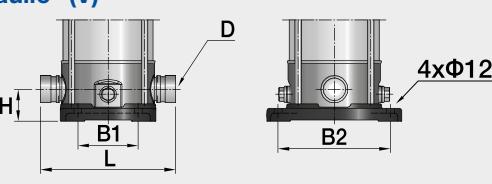
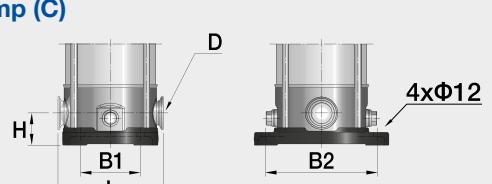
Motor

Power Source	Frequency	50 Hz						60 Hz											
	Phase	Single Phase			Three Phase			Three Phase											
	Rotation Speed	~ 2900 min⁻¹						~ 3500 min⁻¹											
	Power Rating	0.37 ÷ 2.2 kW			0.37 ÷ 18.5 kW			0.37 ÷ 18.5 kW											
		0.5 ÷ 3.0 HP			0.5 ÷ 25 HP			0.5 ÷ 25 HP											
Type	Voltage	230 ± 10%			230/400 ± 10% (up to 4kW) 400/690 ± 10% (above 5.5 kW)			220/380 ± 10% V (up to 4kW) 380/660 ± 10% V (above 5.5 kW)			265/460 ± 10% V (up to 4kW) 460 ± 10% V (above 5.5 kW)								
	Type	Electric - TEFC						Electric - TEFC											
	Efficiency	from 0.37 to 2.2 kW			from 0.37 to 0.55 kW IE3 from 0.75 to 18.5 kW			from 0.37 kW to 0.55 kW IE2/IE3 from 0.75 to 18.5 kW											
	No° of poles	2						2											
	Protection Degree	IP 55						IP 55											
Others	Insulation Class	F (temperature rise class B)						F (temperature rise class B)											
	Thermal Protection	PTC as standard for the above 1.5 kW						PTC as standard for the above 1.5 kW											
	Casing Material	Aluminium						Aluminium											
	Flange Mount (IEC motor)	IM B14 (up to 4 kW) IM B5 (above 5.5 kW)						IM B14 (up to 4 kW) IM B5 (above 5.5 kW)											

EVMS 1-3-5-10-15-20

Legend: ● Standard ○ Options () Type key

Pump model	Max liquid temperature range	Shaft seal type		Shaft seal material					Type key
		Cartridge 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 ₁)	Carbon (B)	EPDM (E)	AISI316 (G)		Q ₁ BEG
	- 30°C to + 80°C	○		SiC (Q ₁)	Carbon (B)	FPM (V)	AISI316 (G)		Q ₁ BVG
	- 30°C to + 140°C		○	SiC with graphite (Q ₉)	SiC (Q ₁)	EPDM (E)	AISI316 (G)		HQ ₉ Q ₁ EG
	- 30°C to + 80°C		○	SiC with graphite (Q ₉)	SiC (Q ₁)	FPM (V)	AISI316 (G)		HQ ₉ 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 ₉)	SiC (Q ₁)	EPDM (E)	AISI316 (G)		HQ ₉ Q ₁ EG
	- 30°C to + 80°C		○	SiC with graphite (Q ₉)	SiC (Q ₁)	FPM (V)	AISI316 (G)		HQ ₉ Q ₁ VG

EVMS 1-3-5-10-15-20

형상 (Shape)	최대 사용압력 (Max. Pressure)	외형치수 (External Dimensions)	EVMS (AISI 1.4301) EVMSL (AISI 1.4401)			
			1/3	5	10	15/20
Oval Flange (N)	PN16		D	G1	G1½	G1½
			L	160	160	200
			B1 / B2	100/180	100/180	130/215
			H	50	50	80
Oval Flange (N)	PN16		D	G1	G1½	G2
			L	160	160	200
			B1 / B2	100/180	100/180	130/215
			H	50	50	80
Round Flange (F)	PN25		D	DN25	DN32	DN40
			L	250	250	280
			B1 / B2	100/180	100/180	130/215
			H	75	75	80
Round Flange (F)	PN25		D	DN25	DN32	DN40
			L	250	250	280
			B1 / B2	100/180	100/180	130/215
			H	75	75	90
Loose Flange (LF)	PN25		D	DN25	DN32	DN40
			L	250	250	280
			B1 / B2	100/180	100/180	130/215
			H	75	75	90
Victaulic® (V)	PN25		D	DN32	DN32	DN50
			L	210	210	261
			B1 / B2	100/180	100/180	130/215
			H	50	50	90
Clamp (C)	PN25		D	Φ59	Φ59	Φ87
			L	162	162	202
			B1 / B2	100/180	100/180	130/215
			H	50	50	90

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Data book



Instruction Manual



Kensaku
system for spare parts selection



Pump Selector
www.efmk-ebara.com

www.efmk-ebara.com

EBARA WORLD

EUROPE

EBARA Pumps Europe S.p.A.

Via Pacinotti, 32
36040 Brendola (VI), Italy
Phone +39 0444 706811
Fax +39 0444 405811
www.ebaraeurope.com

Italian Sales (for order only):
e-mail: ordini@ebaraeurope.com

Export Sales (for order only):
e-mail: exportsales@ebaraeurope.com

Technical Customer Service (TCS):
e-mail: tcs@ebaraeurope.com
Phone +39 0444 706869/902/923/833

Marketing:
e-mail: marketing@ebaraeurope.com

EBARA Pumps Europe S.p.A. GERMANY

Ferdinand-Porsche-Ring 7
63110 Rodgau-Jügesheim, Germany
Phone +49 (0) 6106-660 99-0
Fax +49 (0) 6106-660 99-45
e-mail: info@ebara.de

EBARA Pumps Europe S.p.A. UNITED KINGDOM

Unit 7 - Zodiac Business Park
High Road - Cowley Uxbridge
Middlesex - UB8 2GU, United Kingdom
Phone +44 1895 439027
Fax +44 1895 439028
e-mail: mktguk@ebaraeurope.com

EBARA Pumps Europe S.p.A. FRANCE

555, Rue Juliette Recamier
69970 Chaponnay, France
Phone +33 4 72769482
Fax +33 805101071
e-mail: mktgf@ebaraeurope.com

EBARA POMPY POLSKA Sp. z o.o.

ul. Działkowa 115
02-234 Warszawa, Poland
Phone +48 22 3909920
Fax +48 22 3909929
e-mail: mktgpl@ebaraeurope.com

EBARA Pumps RUS Ltd.

Prospekt Andropov 18, building 7, floor 11
115432 Moscow
Phone +7 499 6830133
e-mail: mktgrus@ebaraeurope.com

EBARA ESPAÑA BOMBAS S.A.

C/Cormoranes 6 Y 8
Polígono Ind. La Estación
28320 Pinto (Madrid), Spain
Phone +34 916.923.630
Fax +34 916.910.818
e-mail: marketing@ebara.es

ASIA & SOUTHEAST ASIA

EBARA Corporation

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

EBARA Corporation Fujisawa plant

4-2-1, Hon-Fujisawa, Fujisawa-shi.
Kanagawa 251-8502, Japan
Phone +81-466-83-8111
Fax +81-466-81-2164

EBARA Machinery (CHINA) CO.,Ltd.

Room No.303, Beijing Fortune Plaza, No.7
Dongsanhuan Zhong Road, Chaoyang District
Beijing, 100020 P. R. China
Phone 86-10-65309996
Fax 86-10-6530-8968
e-mail: emc@ebare.cn
www.ebara.cn

EBARA Thailand Limited

3rd Floor Achme Build. 125 Phetchburi Road
Tungphayathai, Rajthevee, Bangkok 10400, Thailand
Phone 66-2-216-4935
Fax 66-2-216-4937
e-mail: info@ebara.co.th
www.ebara.co.th

EBARA Fluid Machinery Korea Co., Ltd.

3rd Fl. Hyun-Seok Tower
Seolleung-Ro 93-Gil, Gangnam-Gu
Seoul, 135-513 Korea
Phone 82 70 43621100
Fax 82 70 82302030
e-mail: ryan.park@efmk-ebara.com

Ebara Pumps Philippines, Inc.

Canlubang Industrial Estate,
Cabuyao 4025, Laguna, Philippines
Phone 0063-49-549-1806
Fax 0063-49-549-1915
e-mail: pumpsales@ebaraphilippines.com
www.ebaraphilippines.com.ph

P.T. EBARA Indonesia

Jl. Raya Jakarta - Borgor Km. 32
Desa Curug, Cimanggis-Depok
Jawa Barat, 16953 Indonesia
Phone (62-21) 874 0852-53
Fax (62-21) 874 0033
e-mail: marketing@ebaraindonesia.com
www.ebaraindonesia.com

EBARA Pumps Malaysia Sdn. Bhd

6, Jalan TP3, UEP Subang Jaya Industrial Park,
47620, Subang Jaya, Selangor, Malaysia.
Phone 603-8023 6622
Fax 603-8023 9355
e-mail: sales@ebara.com.my
www.ebara.com.my

EBARA Engineering Singapore Pte. Ltd.

No 1, Tuas Link 2, Singapore 638550
Phone 65-6862-3536
Fax 65-6861-0589
e-mail: stdpump@ebrnet.com.sg
www.ebara.com.sg

EBARA Pumps Europe S.p.A INDIA LIAISON OFFICE

1503,Bhumiraj Costarica,
Sector-18, Palm Beach Rd.
Sanpada, Navi Mumbai
Maharashtra, Pin: 400705 - India
Phone +91 22 2781 2862
Fax +91 22 2781 2865
e-mail: mktgind@ebaraeurope.com

AMERICA

EBARA Fluid Handling

1651 Cedar Line Drive
Rock hill, SC 29730 U.S.A
Phone 803 327-5005
Fax 803 327-5097
e-mail: info@pumpsebara.com
www.pumpsebara.com

EBARA Industrias Mecanicas & Comercio Ltda. (Brazil)

Rua Joaquim Marques de Figueiredo, 2-31,
Distrito Industrial, CEP 17034-290, Bauru, SP, Brasil
Phone +55 14 4009-0000
Fax +55 14 4009-0033
e-mail: assistencia@ebara.com.br
www.ebara.com.br

MIDDLE EAST

EBARA Pumps Middle East FZE

P.O.BOX 61383
Jebel Ali, Dubai, UAE
Phone +971 4 8838889
Fax +971 4 8835307
e-mail: nhasebe@ebarame.ae

OCEANIA

EBARA Pumps Australia Pty. Ltd.

7, Holloway Drive
Bayswater 3153 Victoria, Australia
Phone 0061-3-97613033
Fax 0061-3-97613044
e-mail: berrett@ebara.com.au
sales@ebara.com.au



EBARA Fluid Machinery Korea Co., Ltd.

3rd Fl. Hyun-Seok Tower
Seolleung-Ro 93-Gil, Gangnam-Gu
Seoul, 135-513 Korea
Phone +82 70 4362 1100
Fax +82 70 8230 2030
ryan.park@efmk-ebara.com
www.efmk-ebara.com

EBARA Corporation

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

