



Japanese Technology since 1912

 **EVMS** - Vertical Multistage Pumps

**Product Catalogue**







**Japanese Technology since 1912**

[www.ebara-europe.com](http://www.ebara-europe.com)


# Built like a Katana

A Katana is a Japanese product, it's made with a traditional know-how started in 300 a.C.. Katana is manufactured with care and precision of details. Only years of experience can give the necessary capacity to build a masterpiece.

This is what we do with our pumps. Our 100 years of Japanese experience in pumps manufacturing are the base to project and realize pumps with high quality performance, reliability and cutting-edge mechanical parts.

We look forward not forgetting the past.

EBARA new vertical multistage pumps named "EVMS" are manufactured with the highest standards of quality, to achieve reliable operating performance by means of strict technical evaluation criteria and control programs that involve the whole manufacturing process.

We listen to the market. Our design is unique. EVMS can offer the exceptional values through the cutting-edge solutions that best suits your needs. 



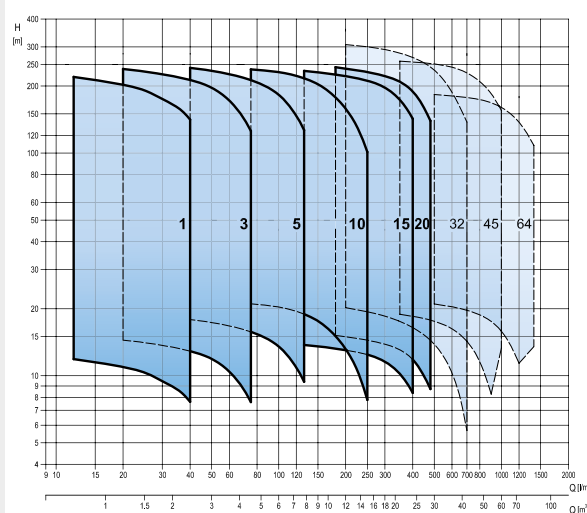
# Precision, Quality, Cutting-Edge



- Pump Type**  
 EBARA vertical multistage in line pumps EVMS
- Model range**  
 1, 3, 5, 10, 15, 20 m<sup>3</sup>/h flow sizes
- Maximum operating range (Pressure/Liquid temperature)**  
 16 bar or 25 bar / - 30 to + 140 °C
- Material version (bottom casing)**  
 EVMS (AISI 304), EVMSL (AISI 316), EVMSG (Cast iron)
- Pipe connections**  
 Round flange / Loose Flange / Oval flange / Victaulic® / Clamp
- Motor**  
 High Efficiency motor IE3 over 0.75 kW, 50 Hz / 60Hz,  
 Single phase / Three phase  
 PTC as standard for the above 1.5 kW

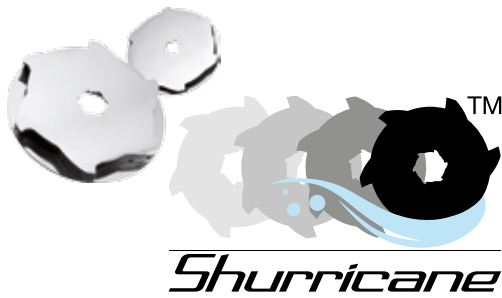
EVMS 1-3-5-10-15-20  
EVM 32-45-64

50 Hz



# Main product features

1



## Innovative hydraulic solutions

### Any motor, anywhere.

- **Commercial motors** can be fitted to all of the pump models without any modifications thanks to low pump axial thrust load
- **Long life of the motor bearing**
- **High pump efficiency** classified in MEI > 0.7 as the most efficient models
- Patent Application n.VI2014A000271

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## Energy saving

- High efficiency IE3 motor starting from 0.75 kW complied with the EuP 2005/32/EC and ErP 2009/125/EC directives
- The **VFD (Variable frequency drive)** and the **commercial sensor** can be directly mounted on EVMS to **maintain physical constant operations** such as pumping pressure depending on the conditions of use

3

## Piping connection options

- The various pipe connections are available depending on the application requirements
- The external dimensions can be adjusted to the replacement of the existing pump in the wide majority

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

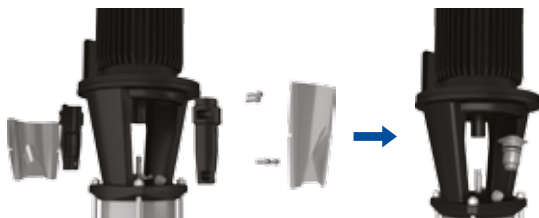
4



## Shaft seal solutions

- **Shaft seal material:**  
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



## Easy maintenance

- The **cartridge shaft 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



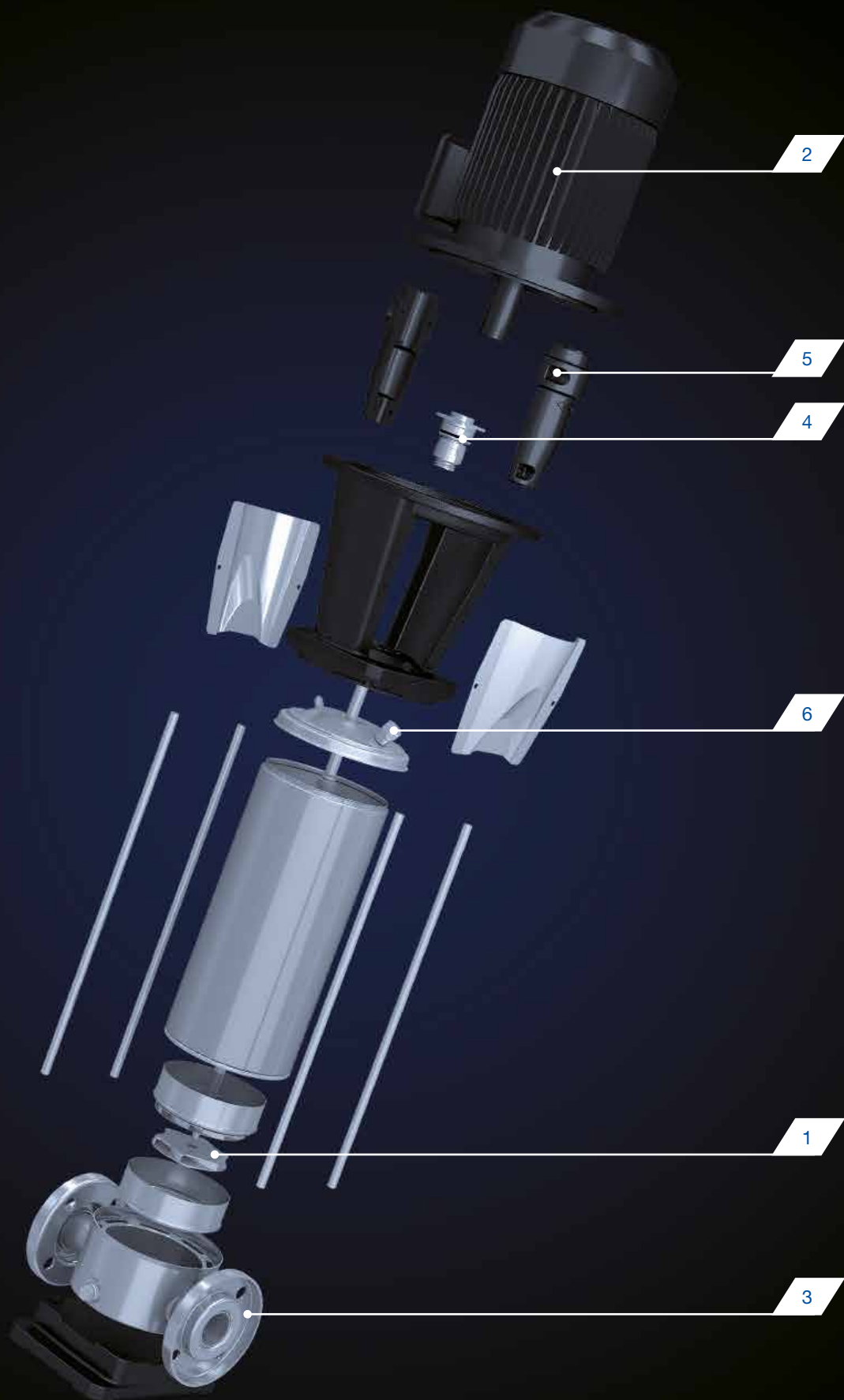
Water filling & sensor plug



Commercial sensor fitting



Measurements for suction and discharge pressure / drain



See the 3D video in our website  
[www.ebara.europa.com](http://www.ebara.europa.com)









# Reliability is made by numbers

**1**  
Million

Cycles of the endurance test\*

**2**  
Times

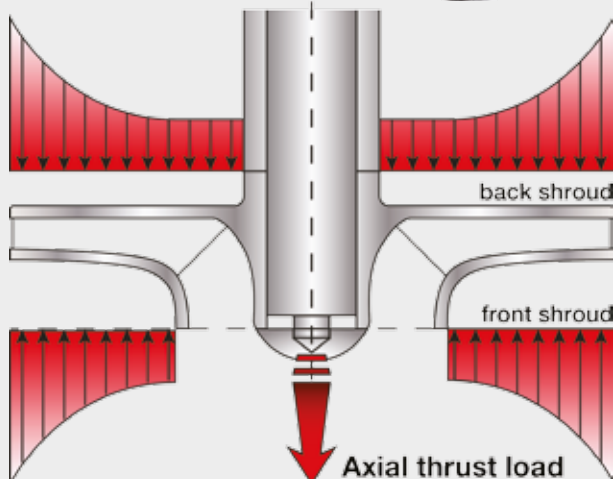
Higher test criteria than nominal operating conditions\*

**3**  
Times

Much less axial thrust load than common pumps

\* for main components

**Solve axial thrust load**



The pump axial thrust load is caused by the unbalance of the static pressure between a front shroud and a back shroud of an impeller. That always causes the **reduction of the bearing life of the motor**.

General methods to work with the axial thrust load are as below.

- Increasing the size of motor bearing or using enhanced motor bearings.
- Mounting additional ball bearings on the pump bracket. These measurements are historically known to cause complicated mechanical structures.

**EBARA new designed impeller "Shurrricane"** can reduce the pump axial thrust load with high pump efficiency by means of the innovative hydraulic design method.

**EVMS can accept the commercial motors without any modifications and improve the maintenance cycles of motor bearing.**

**Any motor, anywhere.**



# Fields of applications



## 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

**In harmony  
with our  
customers**



**EBARA worldwide  
service points**

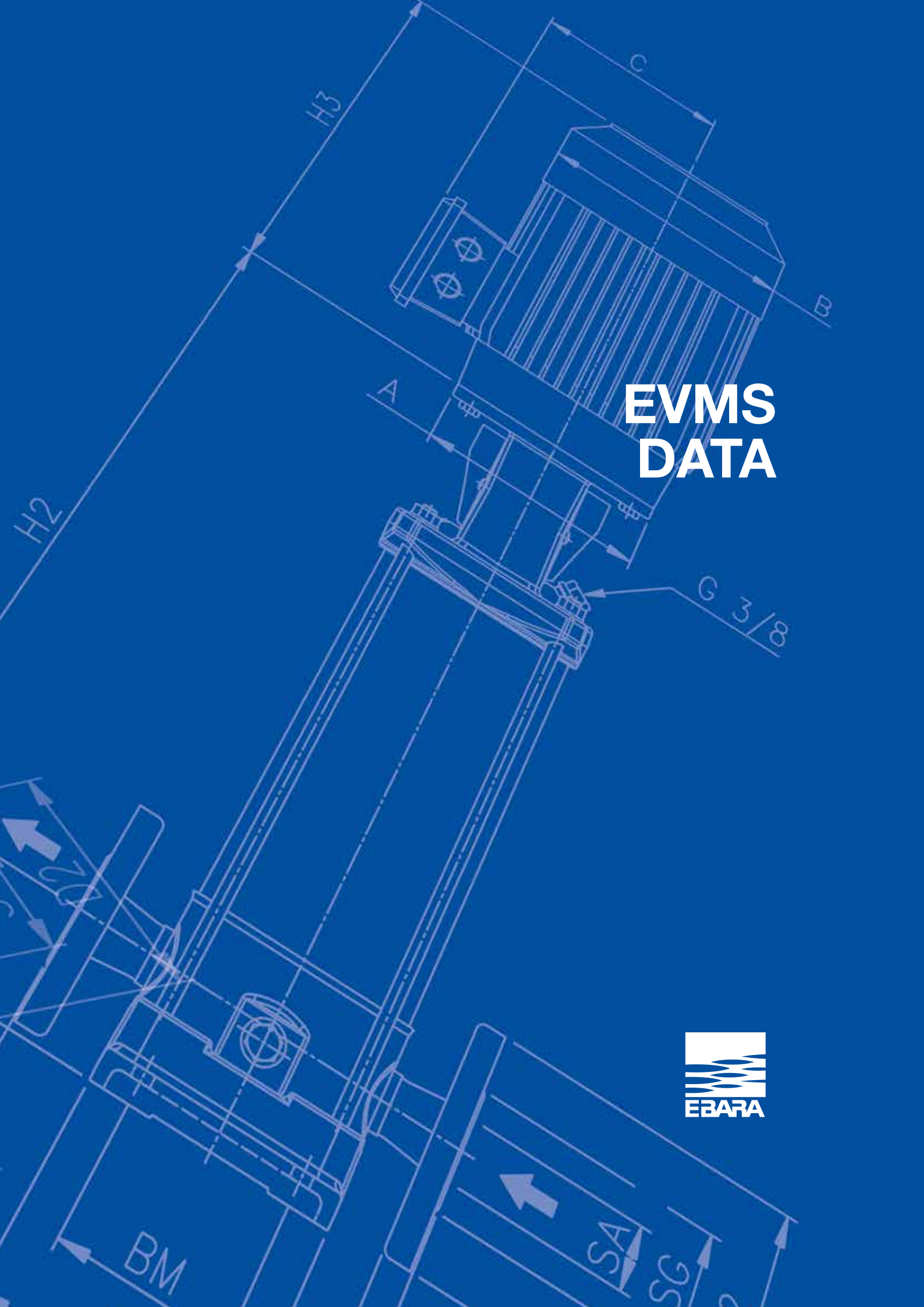


please see the contact list on page 21.





# EVMS DATA



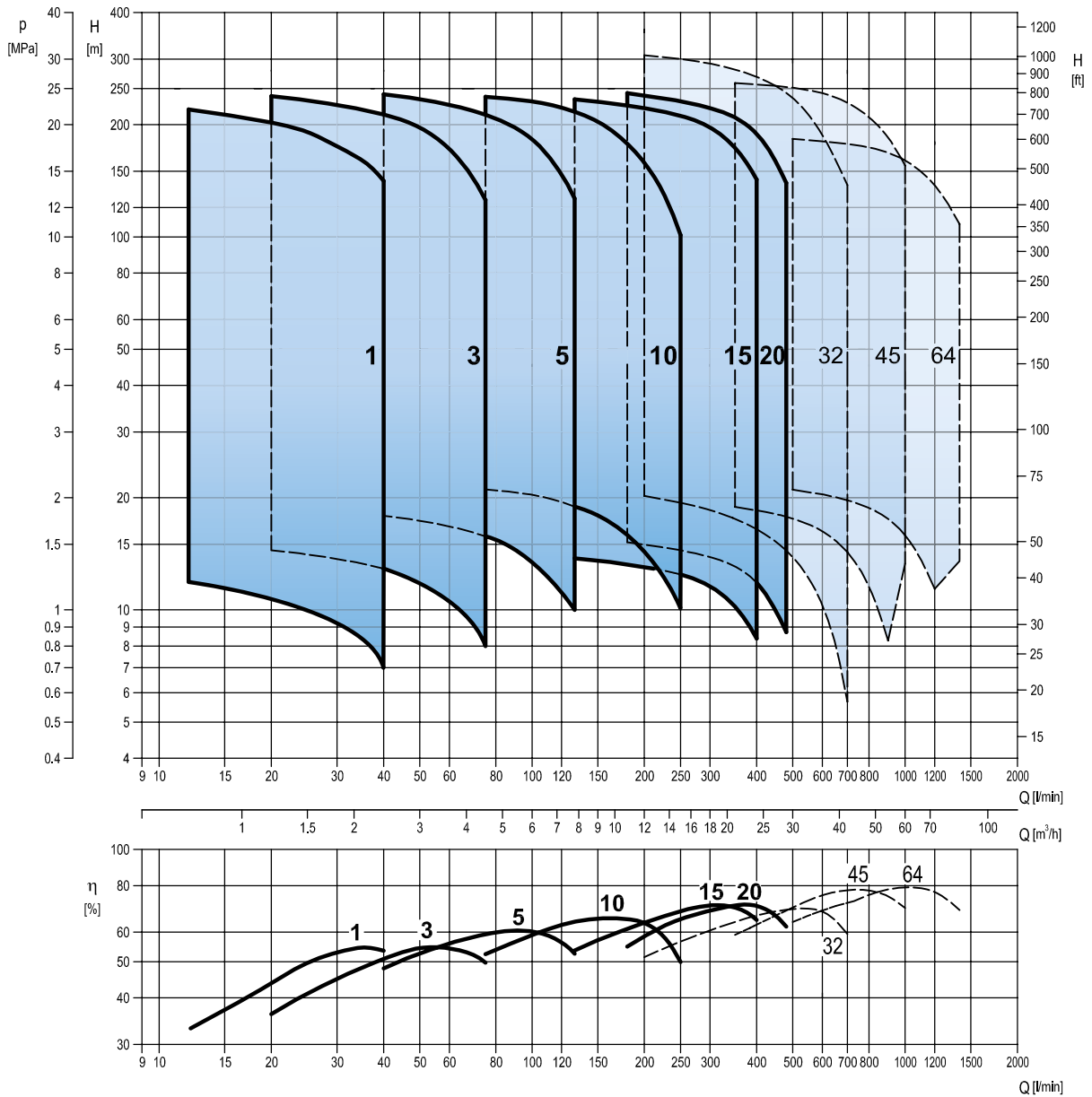


# Performance Range

50Hz

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

### EVM 32-45-64



### Minimum efficiency index (MEI)

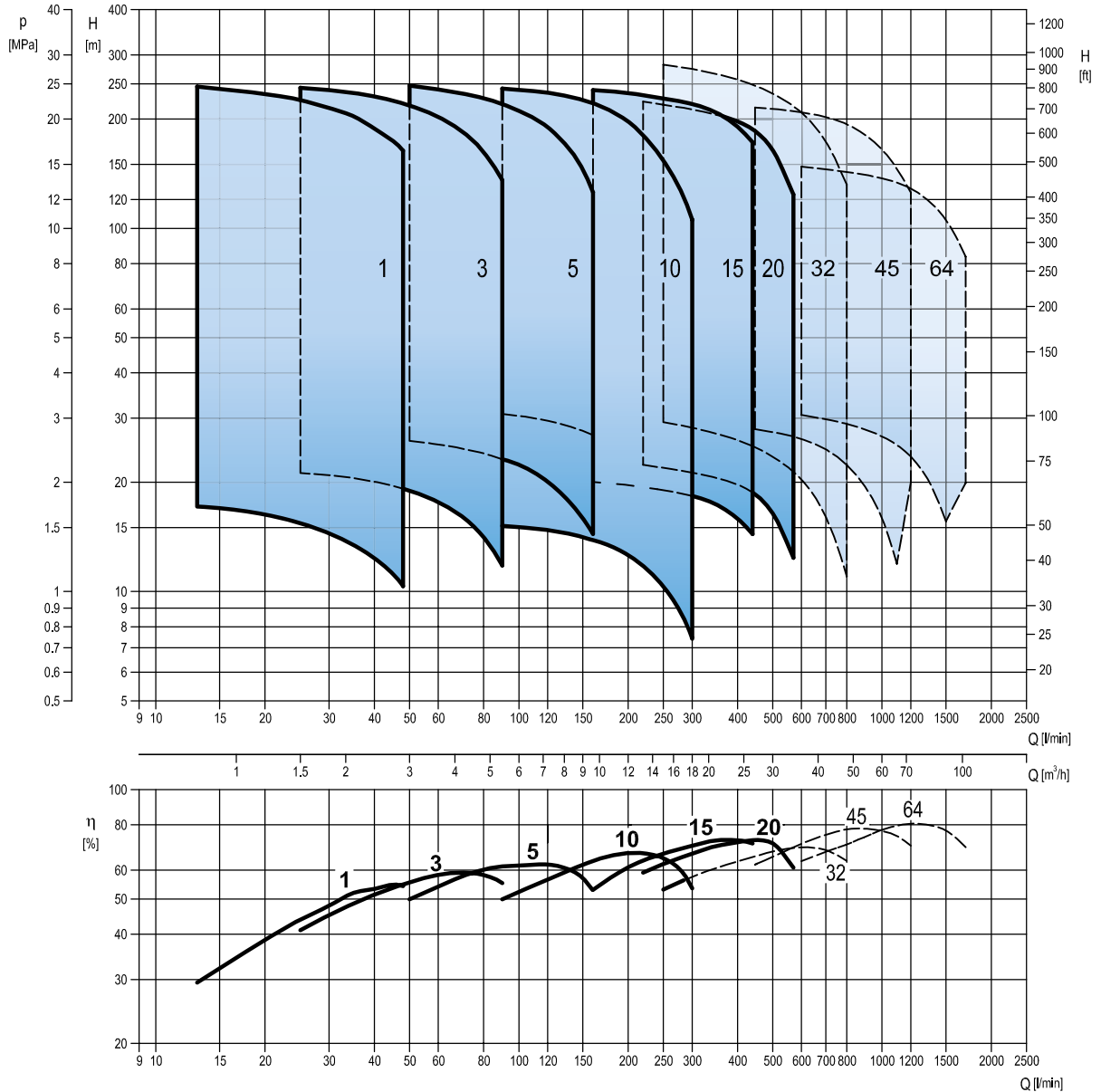
Pump type	MEI
EVMS(.)1	> 0.70
EVMS(.)3	> 0.70
EVMS(.)5	> 0.70
EVMS(.)10	> 0.70
EVMS(.)15	> 0.70
EVMS(.)20	> 0.70

# Performance Range

60Hz

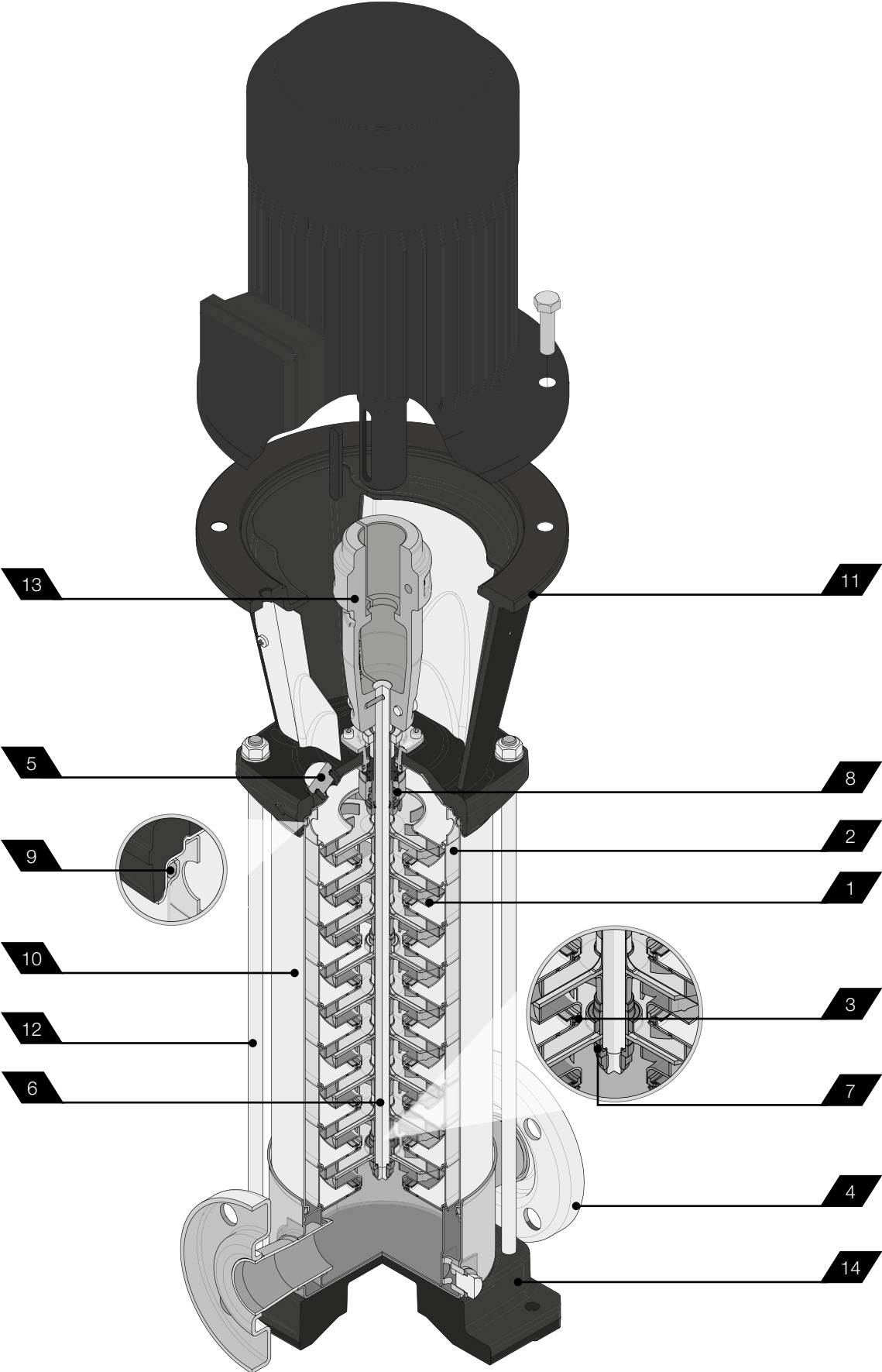
EVMS 1-3-5-10-15-20

EVM 32-45-64



# Sectional Drawing

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



# Product Specifications

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

## Pump

Version		EVMSG						EVMS						EVMSL						
Operating range	Nominal flow rate (m <sup>3</sup> /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)												
	6. Shaft	EN 1.4301 (AISI 304)	EVMS(G) 1-3-10 EVMSG 5-15-20 (depend on models)																	
		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.																		
	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													
Pipe Connection	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	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Loose Flange DIN (EVMS(L)1-3-5 DIN/ANSI)	up to 16 bar							○	○	○	○	○	○	○	○	○	○	○	○
		from 16 bar to 25 bar							○	○	○	○	○	○	○	○	○	○	○	○
Clamp	up to 25 bar							○	○	○	○	○	○	○	○	○	○	○	○	

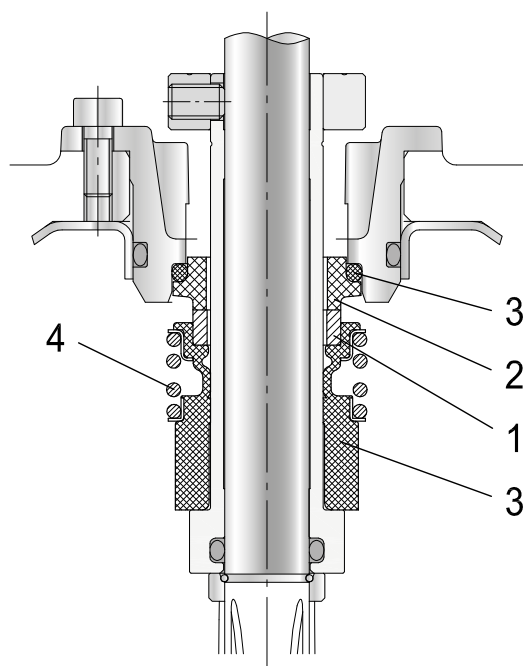
Legend: ● Standard ○ Options

## Motor

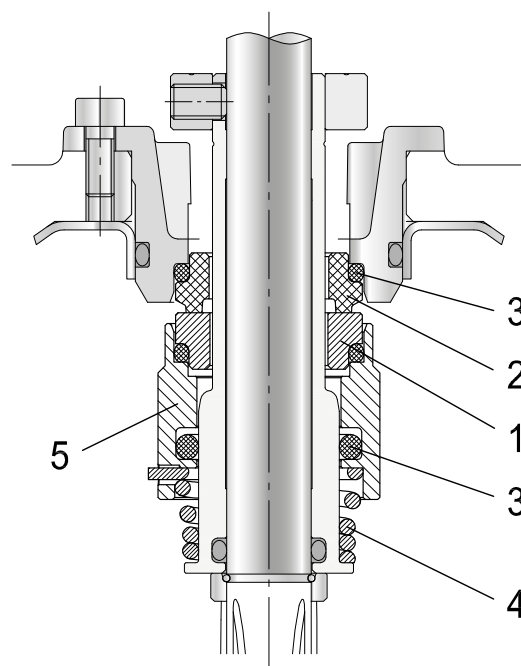
Power Source	Frequency	50 Hz			60 Hz			
	Phase	Single Phase		Three Phase		Three Phase		
	Rotation Speed	~ 2900 min <sup>-1</sup>			~ 3500 min <sup>-1</sup>			
	Power Rating	0.37 ÷ 2.2 kW		0.37 ÷ 18.5 kW		0.37 ÷ 18.5 kW		
		0.5 ÷ 3.0 HP		0.5 ÷ 25 HP		0.5 ÷ 25 HP		
Voltage	230 ± 10%		230/400 ± 10% (up 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	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			
	Insulation Class	F (temperature rise class B)			F (temperature rise class B)			
Others	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)			

# Shaft seal data

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



up to 16 bar



from 16 bar to 25 bar

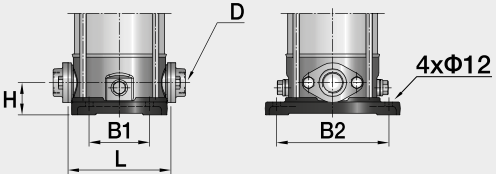
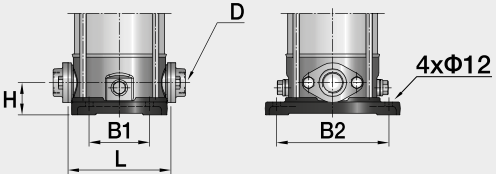
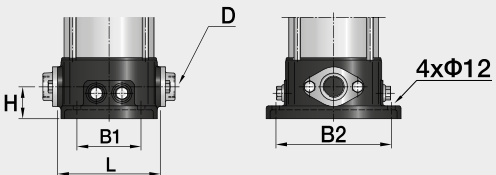
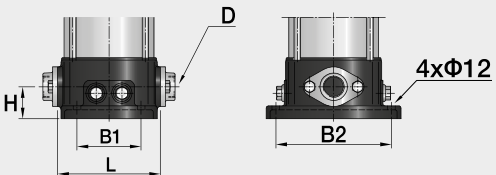
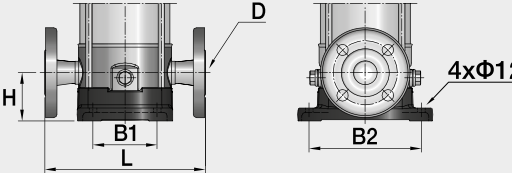
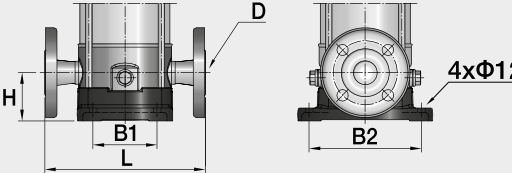
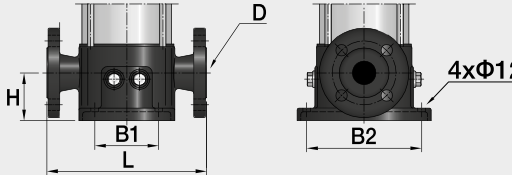
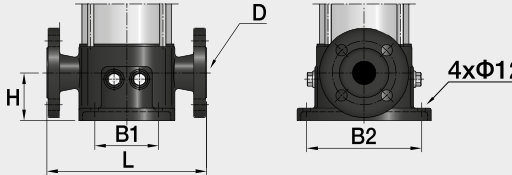
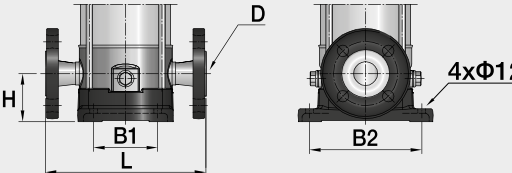
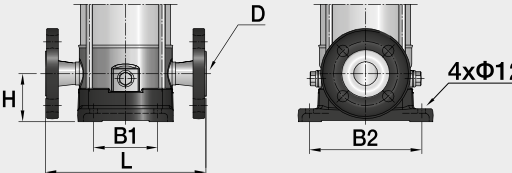
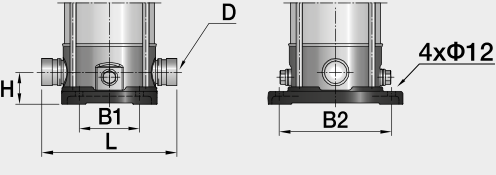
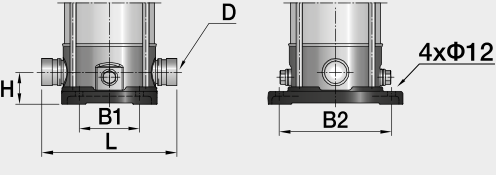
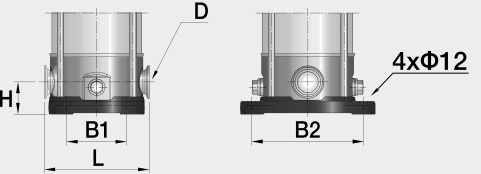
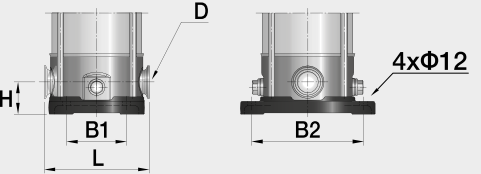
Legend: ● Standard ○ Options ( ) Type key

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 <sub>1</sub> )	Carbon (B)	EPDM (E)	AISI316 (G)		Q <sub>1</sub> BEG
	- 30°C to + 80°C	○		SiC (Q <sub>1</sub> )	Carbon (B)	FPM (V)	AISI316 (G)		Q <sub>1</sub> BVG
	- 30°C to + 140°C		○	SiC with graphite (Q <sub>g</sub> )	SiC (Q <sub>1</sub> )	EPDM (E)	AISI316 (G)		HQ <sub>g</sub> Q <sub>1</sub> EG
	- 30°C to + 80°C		○	SiC with graphite (Q <sub>g</sub> )	SiC (Q <sub>1</sub> )	FPM (V)	AISI316 (G)		HQ <sub>g</sub> Q <sub>1</sub> VG
	- 30°C to + 140°C		○	SiC (Q <sub>1</sub> )	Carbon (B)	EPDM (E)	AISI316 (G)		HQ <sub>1</sub> BEG
from 16 bar to 25 bar	- 30°C to + 140°C		●	SiC (Q <sub>1</sub> )	Carbon (B)	EPDM (E)	AISI316 (G)		HQ <sub>1</sub> BEG
	- 30°C to + 80°C		○	SiC (Q <sub>1</sub> )	Carbon (B)	FPM (V)	AISI316 (G)		HQ <sub>1</sub> BVG
	- 30°C to + 140°C		○	SiC with graphite (Q <sub>g</sub> )	SiC (Q <sub>1</sub> )	EPDM (E)	AISI316 (G)		HQ <sub>g</sub> Q <sub>1</sub> EG
	- 30°C to + 80°C		○	SiC with graphite (Q <sub>g</sub> )	SiC (Q <sub>1</sub> )	FPM (V)	AISI316 (G)		HQ <sub>g</sub> Q <sub>1</sub> VG



# Pipe Connection data

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

<b>Oval Flange (N)</b> 	<b>Maximum operating pressure</b>  PN16	<b>Dimensions</b>	<b>EVMS (AISI 1.4301) EVMSL (AISI 1.4401)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN16	<b>D</b>	G1	G1¼	G1½	G2
		<b>L</b>	160	160	200	200
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	50	50	80	90
<b>Oval Flange (N)</b> 	<b>Maximum operating pressure</b>  PN16	<b>Dimensions</b>	<b>EVMSG (Cast Iron)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN16	<b>D</b>	G1	G1¼	G1½	G2
		<b>L</b>	160	160	200	200
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	50	50	80	90
<b>Round Flange (F)</b> 	<b>Maximum operating pressure</b>  PN25	<b>Dimensions</b>	<b>EVMS (AISI 1.4301) EVMSL (AISI 1.4401)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN25	<b>D</b>	DN25	DN32	DN40	DN50
		<b>L</b>	250	250	280	300
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	75	75	80	90
<b>Round Flange (F)</b> 	<b>Maximum operating pressure</b>  PN25	<b>Dimensions</b>	<b>EVMSG (Cast Iron)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN25	<b>D</b>	DN25	DN32	DN40	DN50
		<b>L</b>	250	250	280	300
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	75	75	80	90
<b>Loose Flange (LF)</b> 	<b>Maximum operating pressure</b>  PN25	<b>Dimensions</b>	<b>EVMS (AISI 1.4301) EVMSL (AISI 1.4401)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN25	<b>D</b>	DN25	DN32	DN40	DN50
		<b>L</b>	250	250	280	300
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	75	75	80	90
<b>Victaulic® (V)</b> 	<b>Maximum operating pressure</b>  PN25	<b>Dimensions</b>	<b>EVMS (AISI 1.4301) EVMSL (AISI 1.4401)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN25	<b>D</b>	DN32	DN32	DN50	DN50
		<b>L</b>	210	210	261	261
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	50	50	80	90
<b>Clamp (C)</b> 	<b>Maximum operating pressure</b>  PN25	<b>Dimensions</b>	<b>EVMS (AISI 1.4301) EVMSL (AISI 1.4401)</b>			
			<b>1/3</b>	<b>5</b>	<b>10</b>	<b>15/20</b>
	PN25	<b>D</b>	Φ59	Φ59	Φ87	Φ87
		<b>L</b>	162	162	202	202
		<b>B1 / B2</b>	100/180	100/180	130/215	130/215
		<b>H</b>	50	50	80	90

## For further information



**Data book**



**Instruction Manual**



**Kensaku**  
system for spare parts selection



**Pump Selector**  
[www.ebara.com](http://www.ebara.com)

Please visit our website

**[www.ebara.com](http://www.ebara.com)**

# EBARA worldwide service points

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www.ebara.eu

Italian Sales (for order only):  
e-mail: ordini@ebara.eu

Export Sales (for order only):  
e-mail: exportsales@ebara.eu

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cod. 479705550 03/15

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