

Looking ahead,
going beyond expectations
Ahead > Beyond



 EVMS 1-90 - Vertical Multistage pumps

Product Catalogue





www.ebara.europa.com

Looking ahead,
going beyond expectations
Ahead  *Beyond*

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.





Shurricane



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 Pending**

Smart plug solutions



Air ventilation plug



Water filling & sensor plug



Commercial sensor fitting



Measurements for suction and discharge pressure / drain



Two priming plugs are on both sides of motor brackets for EVMS32-90. A ventilation plug is integrated with one priming plug



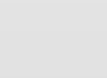
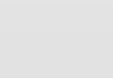
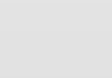
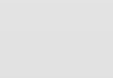
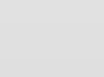
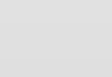
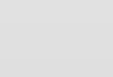
Stainless steel tie rods

Tie rods in EN 1.4057 (AISI 431) as standard.



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 (incl. ANSI depending on models)	Loose Flange DIN (incl. ANSI depending on models)	Oval Flange	Victaulic®	Clamp
AISI304/ AISI316L					
ASTM CF8/ ASTM CF8M					
Cast Iron					

Shaft seal solutions

- **Shaft seal material:**

B: Resin impregnated carbon graphite
 Q: Sintered silicon carbide
 Q_g: 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)



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.



ETM
M O T O R S



EBARA standard motor solutions

- IE3 efficiency for both 50 and 60 Hz* operation, according IEC 60034-30 standard.
 - ETM motors are available from 0.75 up to 11 kW for both 50 and 60 Hz**
- PTC sensors (thermistors) are standard from 1.5 kW upwards for motor protection at 150°C
- Unloosable screws and sealing are standard for terminal box fixing from 0.75 kW upwards
 - Stable inverter mounting on fan covers made of pressed steel

* IE3 for 60Hz is depending on motor size and voltage.

** All other sizes including single phase motors are available with commercial IEC standard motors



Reliability is made by numbers

1
Million

Cycles of the endurance test*

2
Times

Higher test criteria than nominal operating conditions*

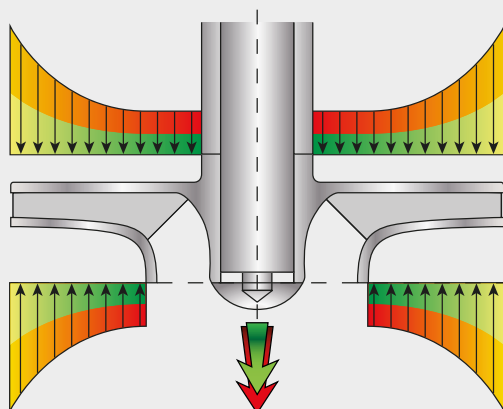
3
Times

Much less axial thrust load than common pumps



* for main components

Solve axial thrust load



Shurricane impeller



Normal impeller

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 "Shurricane" 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



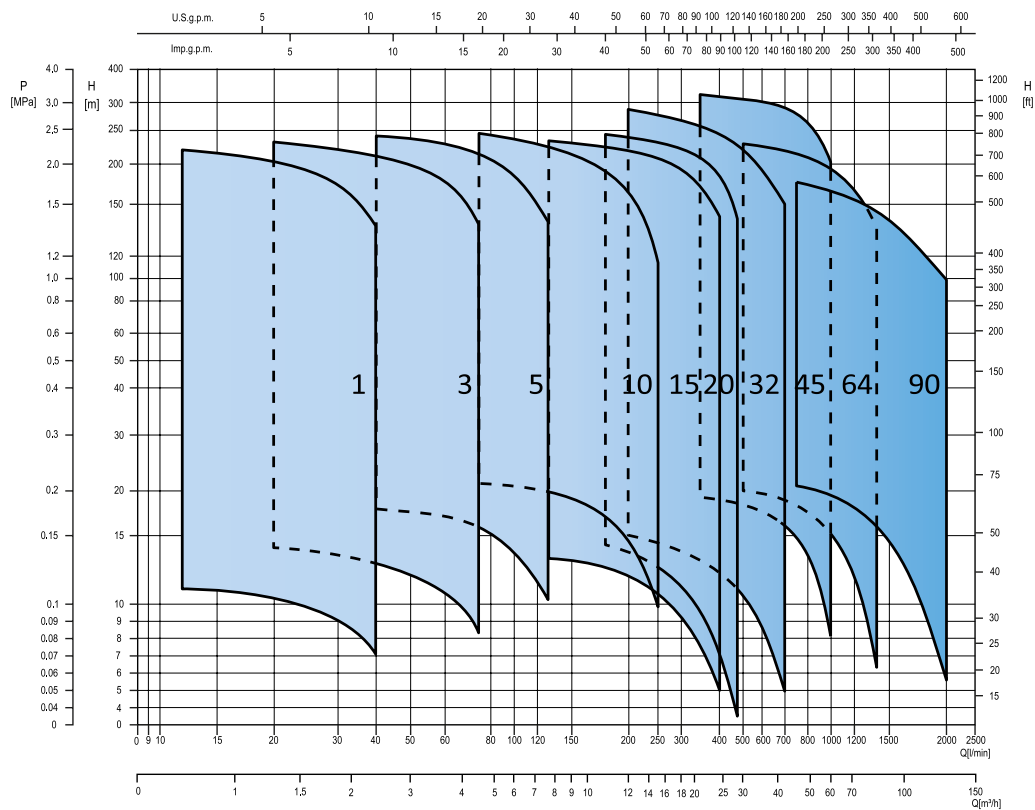
EBARA worldwide service points



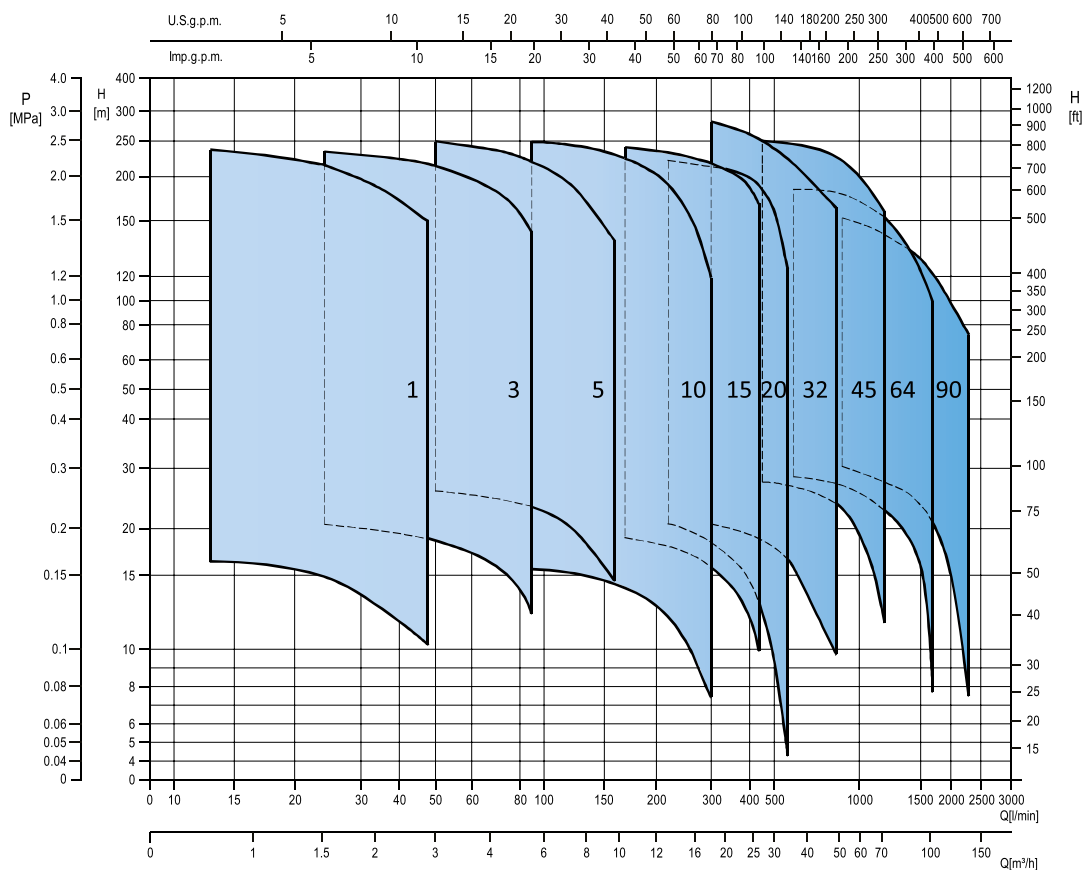
please see the contact list on page 17

Performance Range

50Hz



60Hz



General information



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
EVMS(.)32	> 0.60
EVMS(.)45	> 0.70
EVMS(.)64	> 0.40
EVMS(.)90	> 0.60

Version		EVMS (AISI 304), EVMSL(AISI 316L), EVMSG (Cast Iron/AISI 304)			
Operating range	Nominal flow rate	1, 3, 5, 10, 15, 20, 32, 45, 64, 90 m³/h			
	Max working pressure	1.6, 2.5, 3.0, 3.5 MPa (16, 25, 30, 35 bar)			
	Max liquid temperature range	-30°C to 140°C			
Power source	Frequency	50 Hz		60 Hz	
	Phase	Single phase	Three phase	Three phase	
	Nominal rotation speed	~ 2900 min -1		~ 3500 min -1	
	Power rating	0.37 ÷ 2.2 kW	0.37 ÷ 45 kW	0.37 ÷ 45 kW	
	Voltage	230V±10%	230/400V±10% (up to 4kW) 400/690V±10% (above 5.5kW)	460V±10% (up to 4kW) 220/380V+10%/-5% (up to 4kW)	460V±10% (above 5.5kW) 380/660V+10%/-5% (above 5.5kW)
Motor type	Type	Electric - TEFC			
	Efficiency class	IE2 (from 0.37 to 2.2)	IE2/IE3 (above 0.75 kW)	IE2/IE3 (above 0.75 kW)	
	N° of poles	2			
	Protection degree	IP55 (up to 11kW), IP56 (above 15kW)			
	Insulation class	F	F (temperature rise class B)		
	Thermal protection	-	PTC as standard for the above 1.5 kW		
	Flange mount (IEC motor)	IM B14 (up to 4 kW), IM B5 (above 5.5 kW)			

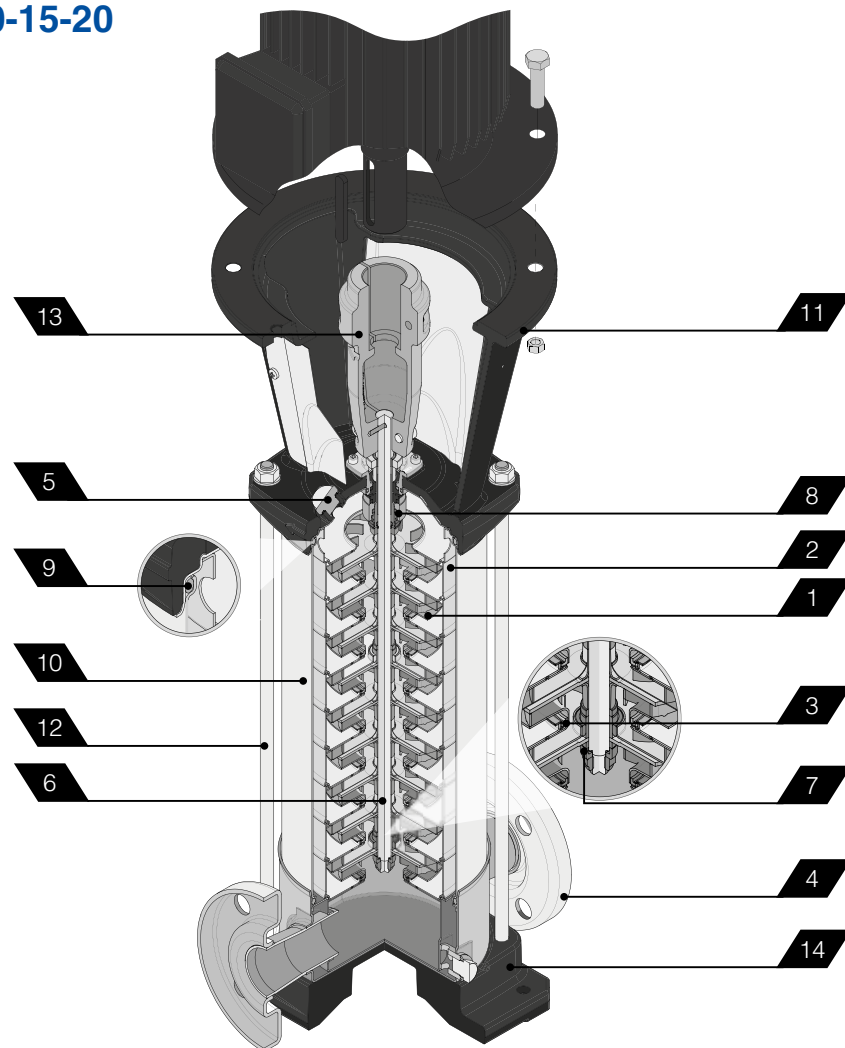
Drinking water approval						Atmosferes explosibles approval ATEX 2014/34/UE
	DM174/2004 * 	ACS 	KTW-BWGL 	WRAS 	PZH no HK/W/0394/01/2017	
Mechanical seal	SiC/Carbon_EPDM	SiC/Carbon_EPDM	All variations with EPDM on page 14-15	SiC/Carbon_EPDM	All variations with EPDM on page 14-15	All variations on page 14-15
EVMSG	•	-	-	-	-	•
EVMS	•	•	•	•	•	•
EVMSL	•	•	•	•	•	•

Note: * Available only for EVMS 1-20

** DVGW W270 is certified for elastomers. Reg. Nr. DW-5253CR0217
KTW is certified for organic components.

Construction

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

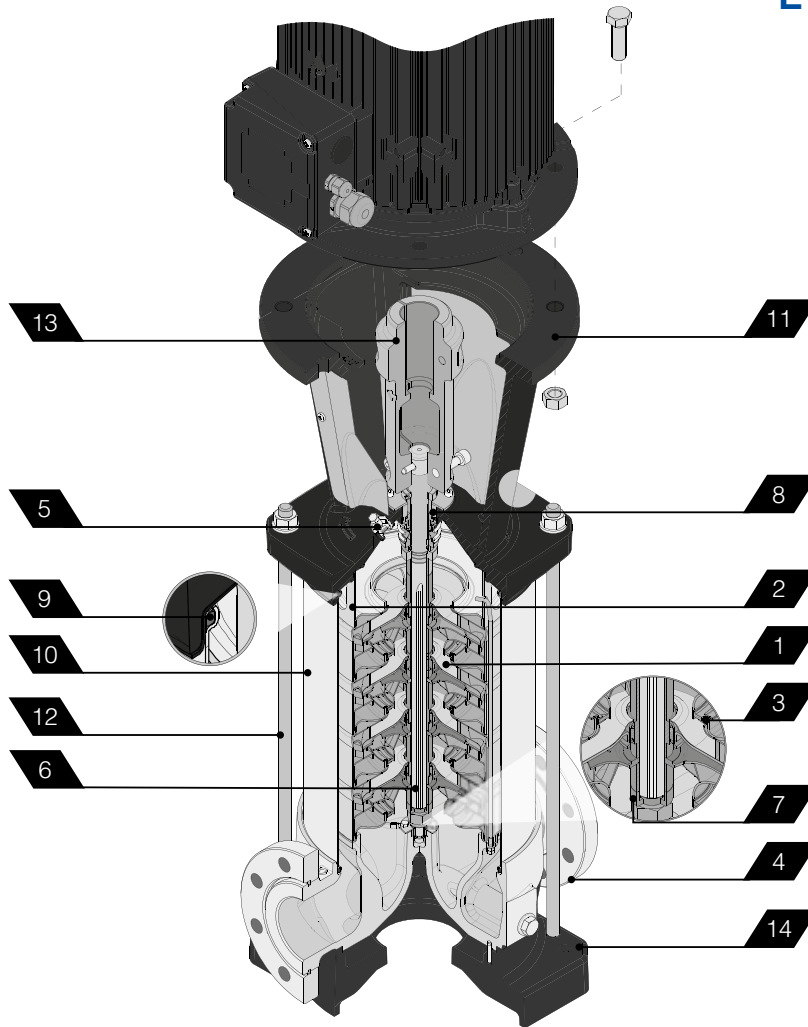


Version			EVMSG	EVMS	EVMSL
Key Components Materials	1. Impeller		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)
	2. Intermediate casing		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)
	3. Liner ring		EN 1.4301 (AISI 304) + PPS		EN 1.4404 (AISI 316L) + PPS
	4. Bottom casing		Cast iron ENGJL-250 EN1551		EN 1.4404 (AISI 316L)
	5. Casing cover		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)
	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 EVMSL 5-15-20 (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		SiC/Carbon/EPDM or FPM SiC graphite/SiC/EPDM or FPM		
	9. O ring	EPDM	●	●	●
		FPM	●	●	●
	10. Outer casing		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)
	11. Motor bracket		Cast iron ENGJL-200 EN1561		
Pipe Connection	12. Tie rod		EN 1.4057 (AISI 431)		
	13. Coupling	up to 4 kW from 5.5 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)		
	14. Base		Cast iron ENGJL-250 EN1551	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)	
	Oval flange	up to 16 bar	●	●	●
	Round flange DIN	up to 16 bar	●	●	●
	(EVMS(L)1-3-5 DIN/ANSI)	from 16 bar to 25 bar	●	●	●
	Loose Flange DIN	up to 16 bar	●	●	●
	(EVMS(L)1-3-5 DIN/ANSI)	from 16 bar to 25 bar	●	●	●
	Victaulic®	up to 25 bar	●	●	●
	Clamp	up to 25 bar	●	●	●

Legend: ● Available

Construction

EVMS 32-45-64-90



Version		EVMSG	EVMS	EVMSL	
Key Components Materials	1. Impeller	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	2. Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	3. Liner ring	EN 1.4301 (AISI 304) + PPS		EN 1.4404 (AISI 316L) + PPS	
	4. Bottom casing	Cast Iron EN GJL-250 EN 1561 (for EVMSG32 and EVMSG45-90 up to 16 bar) Cast Iron EN GJS 400-15 EN 1563 (for EVMSG45-90 above 16 bar)	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)	
	5. Casing cover	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	6. Shaft	EN 1.4301 (AISI 304)	EVMSG / EVMS 32-45-64-90 (depend on models)		
		EN 1.4404 (AISI 316L)	EVMSL 32-45-64 (depend on models)		
		EN 1.4460 (AISI 329A)	EVMSG / EVMS / EVMSL 45-64-90 (depend on models)		
	7. Shaft sleeve bearing	Tungsten carbide			
	8. Shaft seal	SiC/Carbon/EPDM or FPM SiC graphite/SiC/EPDM or FPM			
	9. O ring	EPDM	●	●	●
		FPM	●	●	●
	10. Outer casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	11. Motor bracket	Cast Iron EN GJL200 EN1561			
12. Tie rod	EN 1.4057 (AISI 431)				
13. Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)			
	from 5.5 kW to 30 kW	Cast Iron EN GJL250 EN 1561			
	above 37 kW	Carbon steel			
14. Base	Cast iron EN GJL200 EN 1561				
Pipe connection	Round flange DIN/ANSI	●			
	Loose flange DIN/ANSI		●	●	

Legend: ● Available

Everything you need in just one click!

visit our website www.ebara.eu



Data book

The complete technical documentation where find all pumps data



Instruction Manual

The technical manual where find all information to install our pumps properly



Kensaku

The system to select the spare parts



Ez-finder

The software to find and select the suitable pump for any requirement
<https://ezfinder.ebara.com>



Service

An expert team at disposal to suggest the right product and supporting for aftersales matters

EBARA sales network

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