



Franklin Electric

EVR SERIES 50 HZ

EVR VERTICAL MULTISTAGE PUMPS



INDICE TEMATICO

EVR Vertical multistage pumps

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Construction options

EVR Vertical multistage pumps

Watch the YouTube videos:



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EVR Vertical multistage pumps

Compact and solid structure

- Silicon carbide shaft bearing and guide bushing
- WRAS approved PPS (EVR 1-3-6-10-15-20) / PTFE (EVR 30-45-65-95)
- Easily replaceable mechanical seal, no need to disassemble the pump (For models higher than 4 kW, the motor does not need to be removed)
- Reduced service and maintenance time
- Impeller with replaceable Stainless steel wear ring in neck (for EVR 30-45-65-95)
- Discharge and suction port: Oval, round, Victaulic flanges

High quality materials

- Stainless steel impeller and diffuser for corrosion resistance
- Standard mechanical seal (EN 12756 ex DIN 24960) WRAS approved
- Balanced version meachanical seal as standard for EVR 30-45-65-95
- Standard IE2/IE3 motor, size B14 up to 4 kW / size B5 from 5.5 kW
- Intermediate Silicon carbide bearing for stabilisation of pump shaft for models with a high number of stages
- Hydraulic characteristics are guaranteed, according to ISO Standard 9906:2012, grade 3B

Technical data

- Flow: up to 115 m³/h
- Head: up to 326 m
- Motor power: from 0.37 to 45 kW
- Maximum working pressure: PN32
- Liquid temperature: -15 °C / +120 °C

OPTIONS

- Special materials for the mechanical seal, gaskets and elastomers
- Balanced mechanical seal EN 12756 for EVR 1-3-6-10-15-20
- Special versions: Oversized motor, High pressure, Overlapping flanges, pumps equipped with Drives

✓ Robust and reliable

✓ Drinking water approvals



DM 174-2006

✓ All wetted parts are made of Stainless steel

Standard IE2/IE3 motor

Cartridge mechanical seal



is replaceable without dismounting the pump (for models > 4 kW no motordismantling necessary)

Intermediate Silicon carbide bearing

to stabilize the hydraulics with a large number of stages

Easy installation in-line ports



Water Distribution,
Pressure boosting,
Drinking water



Irrigation,
Water treatment plants,
Gardening, Sprinklers



Wash down unit, Boiler feed



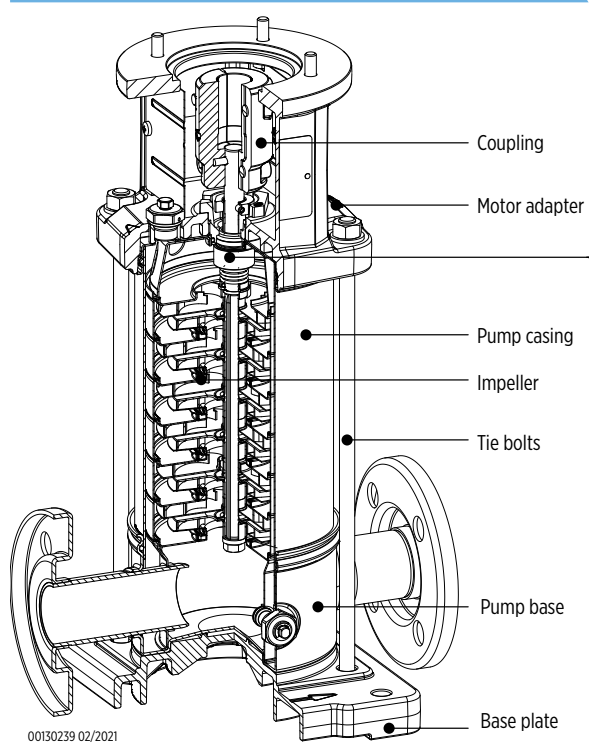
Domestic, industrial and
agricultural systems



Circulation of hot and cold
water for heating, cooling,
conditioning systems

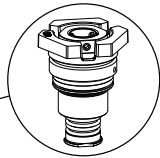
EVR Vertical multistage pumps

PRODUCT DESCRIPTION

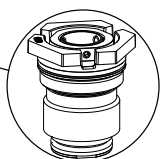


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CARTRIDGE MECHANICAL SEAL



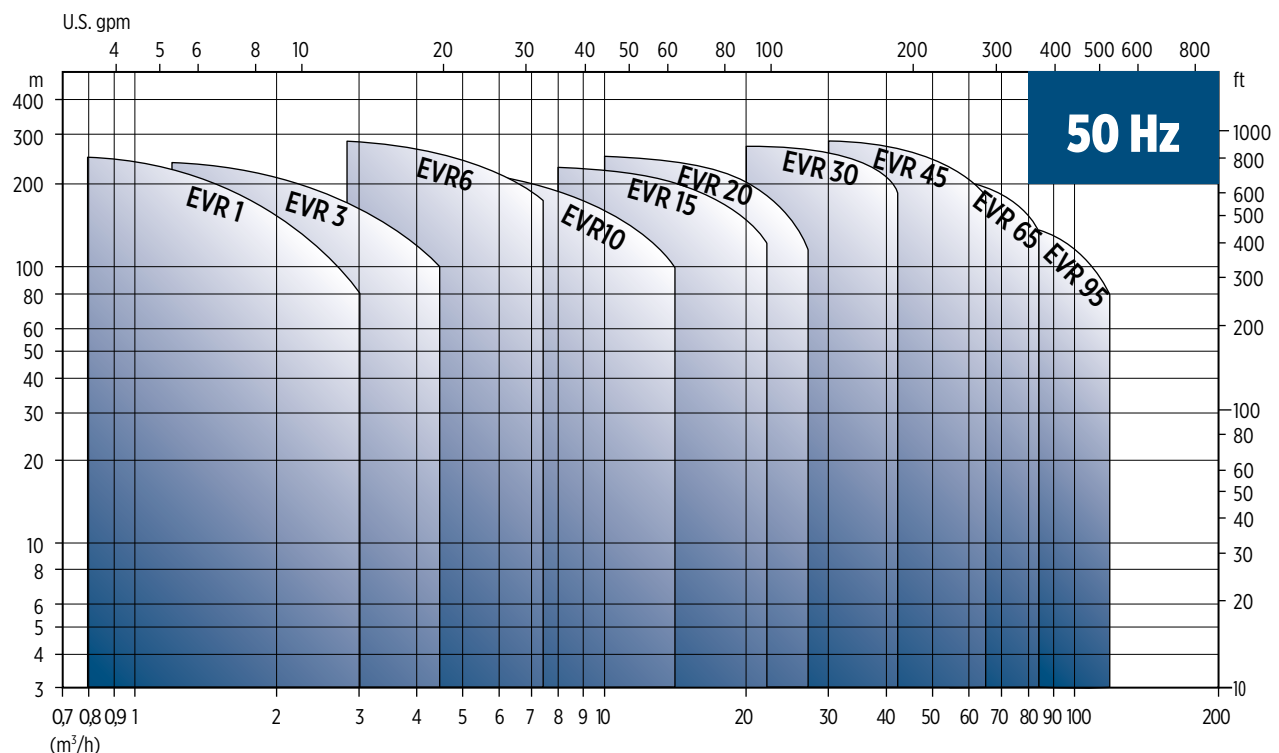
Unbalanced



Balanced

Vertical multistage pumps are rotodynamic pumps that are not self-priming. They are assembled with one or more stages and have a radial or semiaxial (mixed) flow. The pump consists of a pump body with in-line connections to the pipes, an external waterproof shell and an upper bracket to support the motor. The base of the pump allows it to be fixed to the ground. The tie bolts guarantee the structural integrity. The motor shaft and the pump shaft (driven shaft) are connected by a rigid, removable coupling. This rigid coupling can be equipped with a ball bearing to support axial thrust (thrust assembly). The cartridge-type mechanical seal is periodic maintenance-free.

FAMILY CURVES



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EVR Vertical multistage pumps

GENERAL FEATURES

Model		1	3	6	10	15	20	30	45	65	95
Rated flow [m ³ /h]		2	3	6	11	17	20	36	48	70	90
Maximum flow		120 m ³ /h									
Maximum head		320 m									
Maximum liquid temperature [°C]	Domestic uses	-15 °C / +85 °C									
	Other uses	-15 °C / +120 °C									
Max. η hydraulic [%]		47.8	57.1	64.6	68.5	69	69	75.4	76.3	78.4	79.4
Flow range [m ³ /h]		0,8 - 2,8	1,4 - 4,2	2,8 - 7,2	7,0 - 14,0	8,0 - 24,0	9,0 - 28,0	25,0 - 42,0	34,0 - 64,0	30,0 - 88,0	45,0 - 115,0
Max. pressure	Standard version	PN26	PN26	PN26	PN26	PN26	PN26	PN32	PN32	PN25	PN25
Motor power range [kW] (2 poles)		0,37 - 2,2	0,37 - 3,0	0,37 - 5,5	0,75 - 7,5	1,1 - 15	1,1 - 18,5	2,2 - 30,0	3,0 - 45,0	4,0 - 45,0	5,5 - 45,0
Material versions	G (Cast-iron + AISI 304 SS)	-	-	-	-	-	-	•	•	•	•
	I (AISI 304 SS)	•	•	•	•	•	•	-	-	-	-
	N (AISI 316L SS)	•	•	•	•	•	•	•	•	•	•
	P (AISI 316L SS passivated)	•	•	•	•	•	•	•	•	•	•
Hydraulic connections (Dimensions)	F (Round flange) I (AISI 304 SS) version N (AISI 316L SS) version	DN 25 PN 25/40	DN 25 PN 25/40	DN 32 PN 25/40	DN 40 PN 25/40	DN 50 PN 25/40	DN 50 PN 25/40	-	-	-	-
	P (AISI 316L SS passivated)	-	-	-	-	-	-	DN 65 PN16 PN 25/40	DN 80 PN16 PN 25/40	DN 100 PN16 PN 25/40	DN 100 PN16 PN 25/40
	T (Oval flange) I (AISI 304 SS) version	1" ¼ (DN 32) PN 16	1" ¼ (DN 32) PN 16	1" ¼ (DN 32) PN 16	Rp 1" ½ (DN 40) PN 16	Rp 2" (DN 50) PN 16	Rp 2" (DN 50) PN 16	-	-	-	-
	V (Victaulic) N (AISI 316L SS) version	1" (DN 25) PN 25	1" (DN 25) PN 25	1" ¼ (DN 32) PN 25	1" ½ (DN 40) PN 25	2" (DN 50) PN 25	2" (DN 50) PN 25	-	-	-	-

"-" = not available
 • = available

EVR Vertical multistage pumps

PRODUCT IDENTIFICATION CODE

30 | EVR | 07 | 00 | - | F | I | S | - | T | 5 | 2 | B | 007 | - | HQQE | - | L3 |

Motor type: "L2" (Lafert IE2) "W3" (Weg IE3)
"L3" (Lafert IE3) "PE" (Pump end)
"W2" (Weg IE2)

Mechanical seal: "BQE" (Carbon/Silicon carbide/EPDM)
"BQV" (Carbon/Silicon carbide/FKM)
"QQE" (Silicon carbide/Silicon carbide/EPDM)
"QQV" (Silicon carbide/Silicon carbide/FKM)
"UUE" (Tungsten carbide/Tungsten carbide/EPDM)
"UUV" (Tungsten carbide/Tungsten carbide/FKM)
"HBQE" BALANCED (Carbon/Silicon carbide/EPDM)
"HBQV" BALANCED (Carbon/Silicon carbide/FKM)
"HQQE" BALANCED (Silicon carbide/Silicon carbide/EPDM)
"HQQV" BALANCED (Silicon carbide/Silicon carbide/FKM)
"HUUE" BALANCED (Tungsten carbide/Tungsten carbide/EPDM)
"HUUV" BALANCED (Tungsten carbide/Tungsten carbide/FKM)

Motor power (kWx10)

Motor voltage: "0" (200V) "9" (415V)
"1" (115/230V) "A" (190/380V)
"2" (230V) "B" (230/400V)
"3" (380/415V) "C" (400/690V)
"4" (460V) "D" (220/380V)
"5" (575V) "E" (380/660V)
"6" (220V) "N" (no voltage)
"8" (230/460V)

No. of poles: "2" (2 poles) "4" (4 poles)

Frequency: "5" (3000rpm, 50Hz) "6" (3600rpm, 60Hz)

Motor phase: "M" (Single-phase), "T" (Three-phase), "E" (Pump end)

Pump version: "S" (Standard version)
"M" (Oversized motor)
"H" (High Pressure)
"O" (Overlapped flanges)
"X" (Custom version)
"DT" (equipped with Drivetech)
"DM" (equipped with Drivetech mini)
"DC" (equipped with Drivetech Compact)

Material versions: "G" (CI+AISI 304SS) "N" (AISI 316SS)
"I" (AISI 304SS) "P" (AISI 316SS passivated)

Hydraulic connections: "F" (Round) "V" (Victaulic)
"T" (Oval)

Trimmed impellers: "00" (No trimmed), "1A", "2A"

Number of stages

Pump model

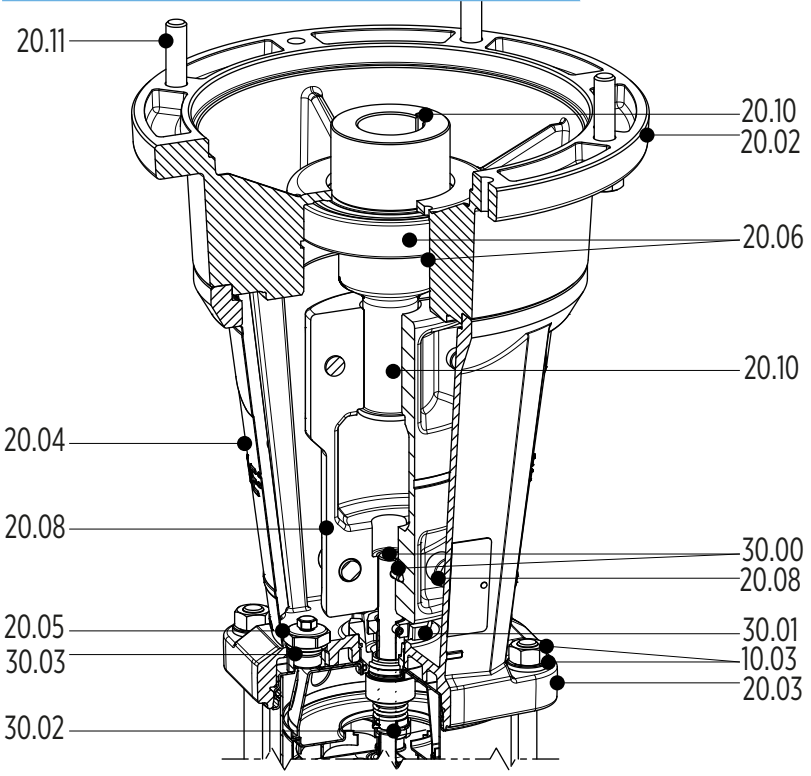
Rated flow [m³/h]

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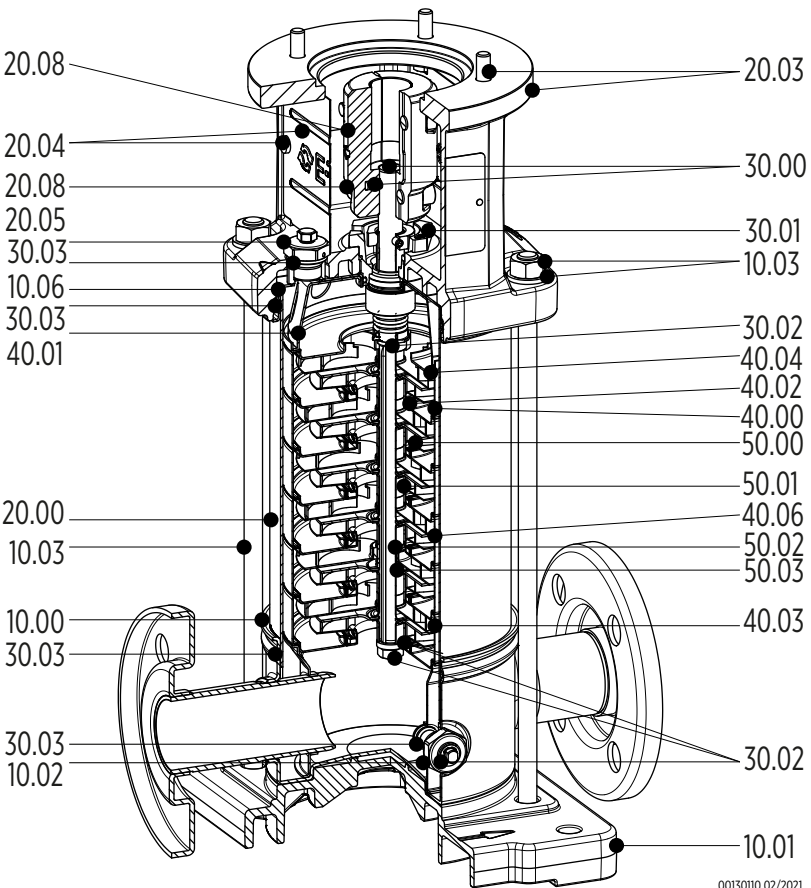
Spare parts and materials

Spare parts and materials

EVR 1-3-6-10



CONFIGURATION 5.5 KW AND ABOVE
WITH THRUST BEARING



CONFIGURATION UP TO 4 KW WITHOUT
THRUST BEARING

00130110 02/2021



Spare parts and materials

PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Reference standard			
			I version		N version	
			ASTM	DIN/EN	ASTM	DIN/EN
10.00	Pump casing	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
10.02	Drain plug	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
10.06	Upper flange	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
20.00	Outer case	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
20.05	Filling plug	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.00	Pump shaft & Pin	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.01	Cartridge mechanical seal	Stainless Steel / Carbon graphite / Silicon Carbide / EPDM				
30.02	Mechanical seal fastening kit	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.03	Kit O-rings	EPDM				
40.00	Stage housing and diffuser	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.01	Stage Centering outlet	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.02	Floating neck ring	Stainless steel / PPS	AISI 304	1.4301	AISI 316	1.4401
40.03	Initial stage housing	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.04	Last Stage with diffuser	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.06	Stage housing and diffuser with bearing	Stainless Steel / Silicon Carbide	AISI 304	1.4301	AISI 316	1.4401
50.00	Impeller	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
50.01	Impeller spacer	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
50.02	Intermediate bearing	Silicon Carbide				
50.03	Intermediate bearing spacer	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401

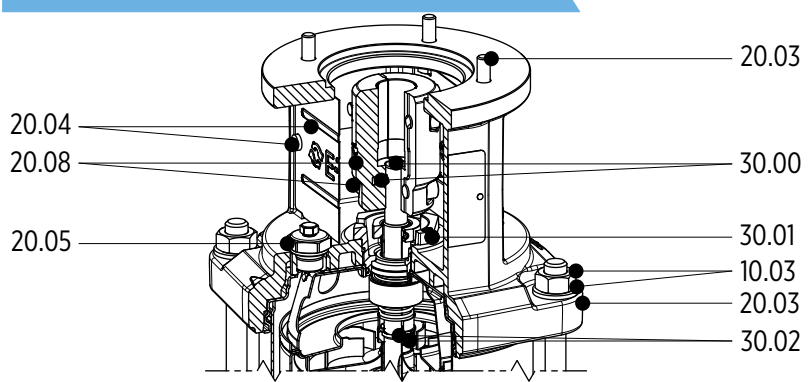
SPARE PARTS LIST

Ref. No.	Parts description
10.00	Pump casing
10.01	Pump base
10.02	Drain plug
10.03	Tie bolts, washers and nuts
10.06	Upper flange
20.00	Outer case
20.02	Motor flange
20.03	Motor bracket
20.04	Coupling guard
20.05	Filling plug
20.06	Kit bearings
20.08	Coupling
20.10	Motor shaft adapter
20.11	Lifting eyelets and bolts

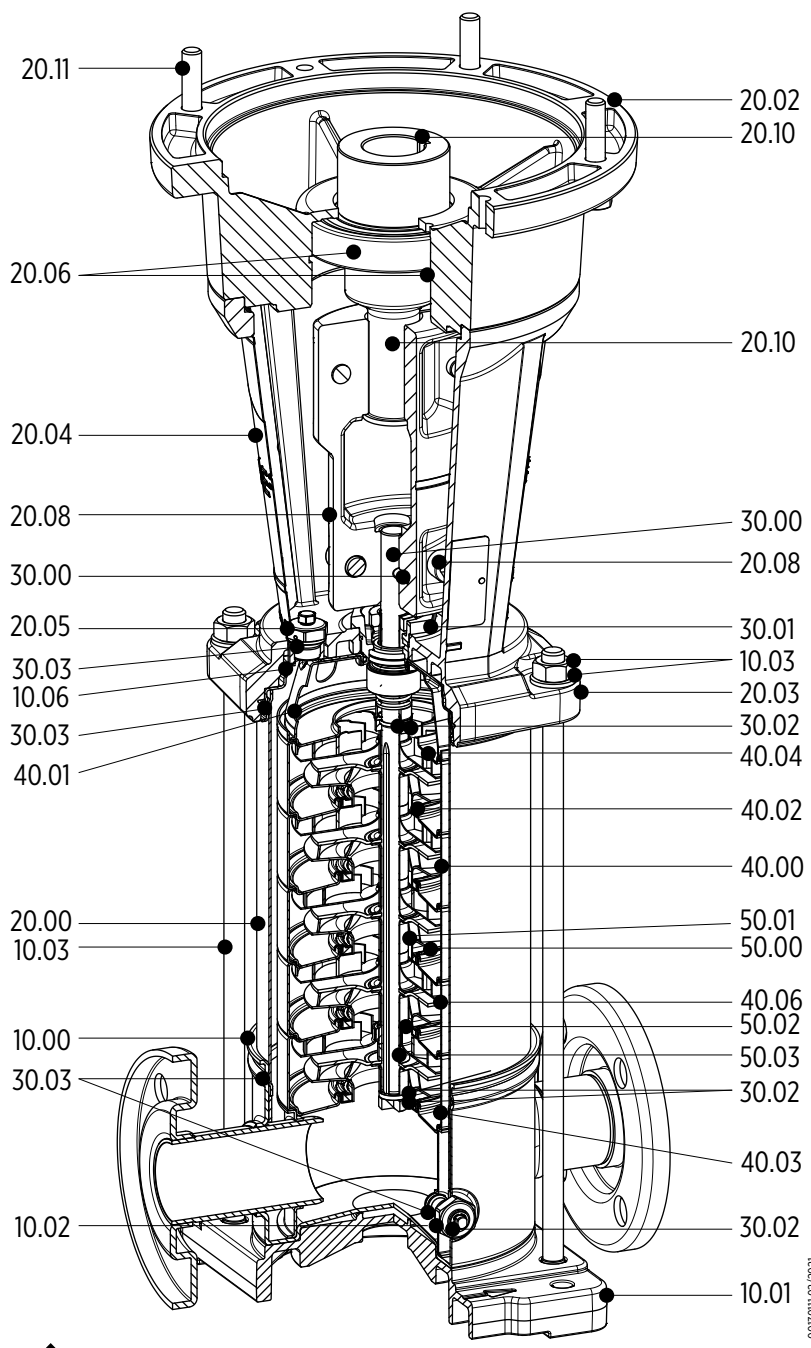
Ref. No.	Parts description
30.00	Pump shaft & Pin
30.01	Cartridge mechanical seal
30.02	Mechanical seal fastening kit
30.03	Kit O-rings
40.00	Stage housing and diffuser
40.01	Stage Centering outlet
40.02	Floating neck ring
40.03	Initial stage housing
40.04	Last Stage with diffuser
40.06	Stage housing and diffuser with bearing
50.00	Impeller
50.01	Impeller spacer
50.02	Intermediate bearing
50.03	Intermediate bearing spacer

Spare parts and materials

EVR 15-20



CONFIGURATION UP TO 4 KW WITHOUT THRUST BEARING



CONFIGURATION 5.5 KW AND ABOVE WITH THRUST BEARING

00130111 02/2021



Spare parts and materials

PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Reference standard			
			I version		N version	
			ASTM	DIN/EN	ASTM	DIN/EN
10.00	Pump casing	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
10.02	Drain plug	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
10.06	Upper flange	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
20.00	Outer case	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
20.05	Filling plug	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.00	Pump shaft & Pin	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.01	Cartridge mechanical seal	Stainless Steel / Carbon graphite / Silicon Carbide / EPDM				
30.02	Mechanical seal fastening kit	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.03	Kit O-rings	EPDM				
40.00	Stage housing and diffuser	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.01	Stage Centering outlet	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.02	Floating neck ring	Stainless steel / PPS	AISI 304	1.4301	AISI 316	1.4401
40.03	Initial stage housing	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.04	Last Stage with diffuser	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.06	Stage housing and diffuser with bearing	Stainless Steel / Silicon Carbide	AISI 304	1.4301	AISI 316	1.4401
50.00	Impeller	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
50.01	Impeller spacer	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
50.02	Intermediate bearing	Silicon Carbide				
50.03	Intermediate bearing spacer	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401

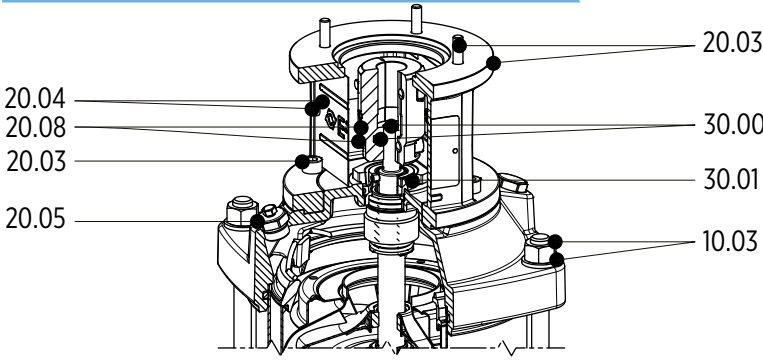
SPARE PARTS LIST

Ref. No.	Parts description
10.00	Pump casing
10.01	Pump base
10.02	Drain plug
10.03	Tie bolts, washers and nuts
10.06	Upper flange
20.00	Outer case
20.02	Motor flange
20.03	Motor bracket
20.04	Coupling guard
20.05	Filling plug
20.06	Kit bearings
20.08	Coupling
20.10	Motor shaft adapter
20.11	Lifting eyelets and bolts

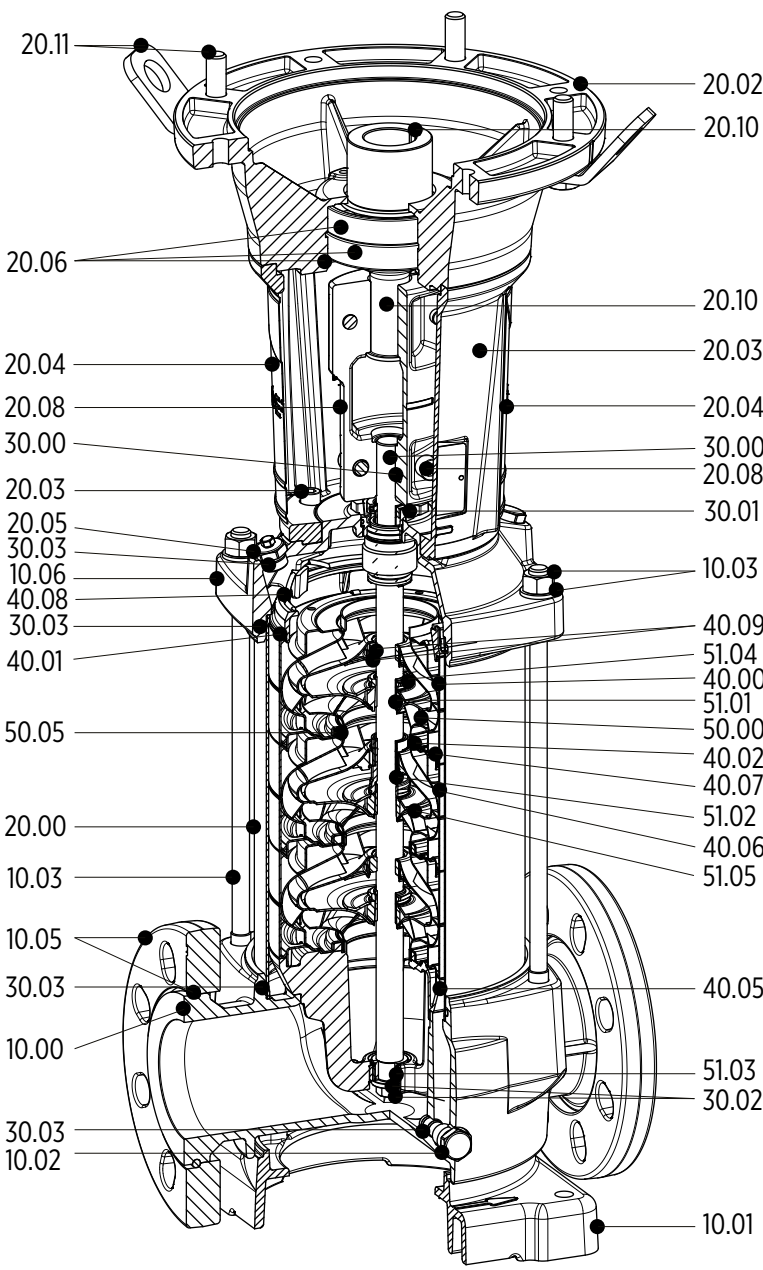
Ref. No.	Parts description
30.00	Pump shaft & Pin
30.01	Cartridge mechanical seal
30.02	Mechanical seal fastening kit
30.03	Kit O-rings
40.00	Stage housing and diffuser
40.01	Stage Centering outlet
40.02	Floating neck ring
40.03	Initial stage housing
40.04	Last Stage with diffuser
40.06	Stage housing and diffuser with bearing
50.00	Impeller
50.01	Impeller spacer
50.02	Intermediate bearing
50.03	Intermediate bearing spacer

Spare parts and materials

EVR 30-45-65-95



CONFIGURATION UP TO 4 KW WITHOUT THRUST BEARING



CONFIGURATION 5.5 KW AND ABOVE WITH THRUST BEARING



Spare parts and materials

PARTS IN CONTACT WITH LIQUID

Ref. No.	Parts description	Material	Reference standard			
			I version		N version	
			ASTM	DIN/EN	ASTM	DIN/EN
10.00	Pump casing	Cast Iron / Stainless Steel	A48 Class 35	GJL-250	CF 8M / AISI 316	1.4408
10.02	Drain plug	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
10.06	Upper flange	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
20.00	Outer case	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
20.05	Filling plug	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.00	Pump shaft & Pin	Stainless Steel	AISI 431	1.4057	AISI 329	1.4460
30.01	Cartridge mechanical seal	Stainless Steel / Carbon graphite / Silicon Carbide / EPDM				
30.02	Mechanical seal fastening kit	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
30.03	Kit O-rings	EPDM				
40.00	Stage housing and diffuser	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.01	Stage Centering outlet (Only 65/95 model)	Stainless Steel	CF 8 / AISI 304	1.4308	CF 8M / AISI 316	1.4408
40.02	Floating neck ring	Stainless steel / PTFE				
40.05	Stage Centering inlet	Stainless Steel / Silicon Carbide	AISI 316	1.4301	AISI 316	1.4401
40.06	Stage housing and diffuser with bearing	Stainless Steel / Silicon Carbide	AISI 304	1.4301	AISI 316	1.4401
40.07	Flange clamping neck ring	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
40.08	Spring ring	Stainless Steel	AISI 316	1.4301	AISI 316	1.4401
40.09	Secondary bearing with ring	Carbon graphite / Stainless Steel	AISI 316	1.4301	AISI 316	1.4401
50.00	Impeller	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
50.05	Wear ring	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
51.01	Split cone	Stainless Steel	AISI 304	1.4301	AISI 316	1.4401
51.02	Intermediate bearing nut	Stainless Steel / Silicon Carbide	AISI 316	1.4301	AISI 316	1.4401
51.03	Journal bearing	Stainless Steel / Silicon Carbide	AISI 316	1.4301	AISI 316	1.4401
51.04	Split cone nut	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401
51.05	Intermediate impeller with screw	Stainless Steel	AISI 304	1.4301	AISI 316L	1.4401

SPARE PARTS LIST

Ref. No.	Parts description
10.00	Pump casing
10.01	Pump base
10.02	Drain plug
10.03	Tie bolts, washers and nuts
10.05	Kit flanges ring
10.06	Upper flange
20.00	Outer case
20.02	Motor flange
20.03	Motor bracket
20.04	Coupling guard
20.05	Filling plug
20.06	Kit bearings
20.08	Coupling
20.10	Motor shaft adapter
20.11	Lifting eyelets and bolts
30.00	Pump shaft & Pin
30.01	Cartridge mechanical seal

Ref. No.	Parts description
30.02	Mechanical seal fastening kit
30.03	Kit O-rings
40.00	Stage housing and diffuser
40.01	Stage Centering outlet (Only 65/95 model)
40.02	Floating neck ring
40.05	Stage Centering inlet
40.06	Stage housing and diffuser with bearing
40.07	Flange clamping neck ring
40.08	Spring ring
40.09	Secondary bearing with ring
50.00	Impeller
50.05	Wear ring
51.01	Split cone
51.02	Intermediate bearing nut
51.03	Journal bearing
51.04	Split cone nut
51.05	Intermediate impeller with screw

Motors

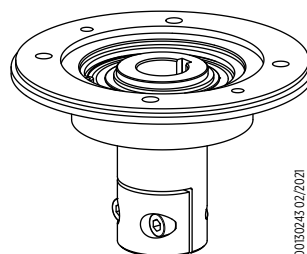
The pump must be coupled with a single-phase (up to 2.2 Kw, IE2) or three-phase (up to 45 kW) synchronous or asynchronous electric motor. Dimensions are according to the IEC 60034-1 or NEMA standard, depending on the motor type.

The motors are totally enclosed fan cooled (TEFC), air cooled and asynchronous for non-explosive risk environments.

The features of original equipment motors with a power output of up to 4 kW are shown in the table below. If a different motor is used, it must have equivalent features. The drive-end side bearing must be blocked, and the non-drive-end side bearing must be spring-loaded. Otherwise, you can order the thrust bearing kit as an optional extra (see the example in the figure).

A PTC 155°C sensor is available on request for power ratings from 0.75 kW to 7.5 kW.

The PTC is standard for power ratings from 11 kW.



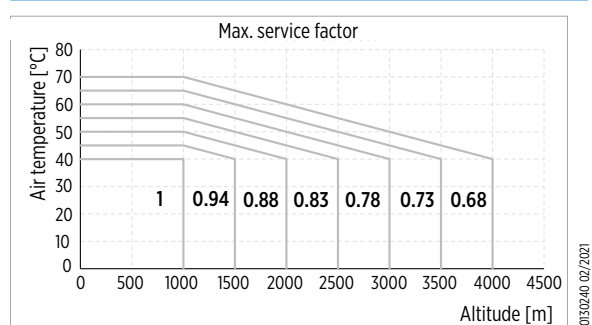
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For IEC 60034-1 standard, available:

MEC 71 / MEC 80 / MEC 90 / MEC 100-112

Power		Phases	IEC size	Design	[min ⁻¹]	Pump side bearing	Starting torque [Nm]	N %
[kW]	[HP]							
Single-phase motors								
0,55	0,75	1	71	B14	2890	6203-2Z	0,7	74,1
0,75	1	1	80	B14	2850	6204-2Z	0,8	77,4
1,1	1,5	1	80	B14	2790	6204-2Z	0,7	79,6
1,5	2	1	80	B14	2870	6205-2Z	0,5	81,3
2,2	3	1	90	B14	2920	6205-2Z	0,4	83,2
Three-phase motors								
0,37	0,5	3	71	B14	2810	6203-2Z	3,6	69,5
0,55	0,75	3	71	B14	2790	6203-2Z	3,2	74,1
0,75	1	3	80	B14	2910	6204-2Z	12	82
1,1	1,5	3	80	B14	2870	6204-2Z	18	82,7
1,5	2	3	90	B14	2875	6205-2Z	18	84,2
2,2	3	3	90	B14	2880	6205-2Z	29	86,5
3	4	3	100	B14	2900	6206-2Z	54	87,1
4	5,5	3	112	B14	2900	6206-27	66	88,1

HEAVY DUTY MOTOR SIZING



All values indicated on the motor label and in the table refer to clean water at the maximum working temperature listed on the nameplate.

For high-density and viscous liquids, please contact the manufacturer. If the ambient temperature and/or altitude exceed the values on the nameplate, reduce the motor service factor below the nominal power.

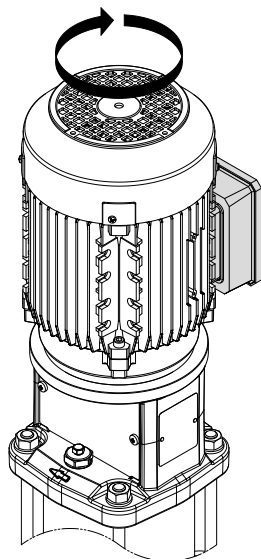
The graph shows how to choose the right maximum service factor applicable. This is the share of the nominal power.

Motors

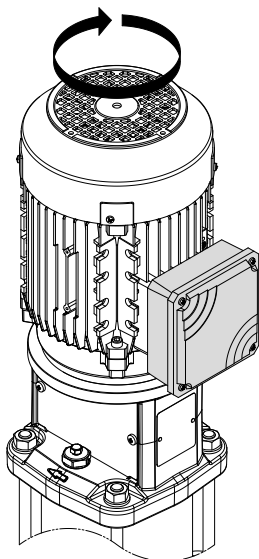
TERMINAL BOX POSITION*

The position of the motor can be rotated to change the position of the terminal box.

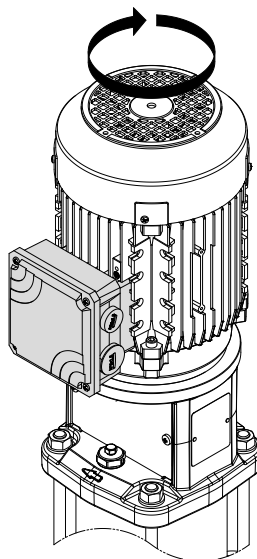
* Consult the operation manual for instructions



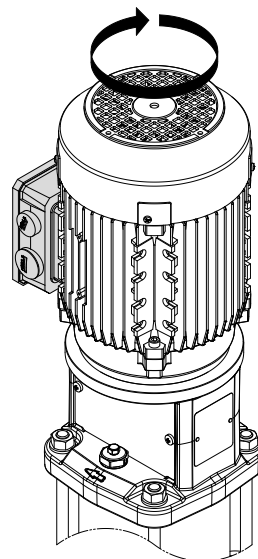
RIGHT
(Standard)



FRONT



LEFT



BACK

00130242 02/2021

Motors

FEATURES

- Protection degree: IP55
- Max ambient temperature: 40 °C
- Insulation class: F
- Size B14 up to 4 kW, size B5 from 5.5 kW and above
- PTC 155°C default from MEC160 (from 11 kW)
- High efficiency single-phase motors 0,37-0.55kW (IE2) according to EU Regulation

SINGLE-PHASE MOTORS

2019/1781

- Voltage: 230 V
- Capacitor inside terminal box

Efficiency class	Single-phase motors designed for range of rated voltage 230V 50Hz												
	Power		IEC size	Design	I _N [A] 230V	[min ⁻¹]	μF	M _N	D %	cos φ	I _A /I _N	M _A /M _N	Design
	[kW]	[HP]											
IE2	0,55	0,75	71	B14	3,2	2890	20	1,8	74,1	0,99	4,3	0,7	8,6
	0,75	1	80	B14	4,3	2850	31,5	2,5	77,4	0,96	5,6	0,8	11,8
	1,1	1,5	80	B14	6,4	2790	36	3,8	79,6	0,97	3,9	0,7	12
	1,5	2	80	B14	8,5	2870	31,5	5	81,3	0,95	4,9	0,5	18,7
	2,2	3	90	B14	11,8	2920	60	7,2	83,2	0,97	5,3	0,4	19,7

THREE-PHASE MOTORS

- High efficiency three-phase motors 0.37-0.55kW (IE2), 0.75-45kW (IE3), according to EU Regulation 2019/1781
- The standard design includes the following basic features, which provide a high level of flexibility:
- Multi Mount Construction allows for an easy change of terminal box position
- The terminal box can rotate 90° to allow for cable entry from any direction
- Voltage: 230/400V up to 3 kW , 400/690V from 4 kW and above
- Special voltages and versions are available upon request

THREE-PHASE MOTORS DESIGNED FOR RANGE OF RATED VOLTAGE 400 V 50 Hz															
Efficiency class	Power		IEC size	Design	I _N [A] Δ 230V	I _N [A] Y 400V	I _N [A] Δ 400V	I _N [A] Δ 690V	[min ⁻¹]	M _N	D %	cos φ	I _A /I _N	M _A /M _N	Design
	[kW]	[HP]													
IE2	0,37	0,5	71	B14	1,7	1	-	-	2810	-	1,3	69,5	0,78	2,7	2,8
	0,55	0,75	71	B14	2,4	1,4	-	-	2780	-	1,9	74,1	0,77	2	1,7
IE3	0,75	1	80	B14	2,9	1,6	-	-	2910	-	2,5	82	0,78	8,9	4,7
	1,1	1,5	80	B14	4,2	2,3	-	-	2870	-	3,7	82,7	0,76	9,3	5
	1,5	2	90	B14	5,2	3,2	-	-	2875	-	5	84,2	0,85	8,4	3,6
	2,2	3	90	B14	8	4,6	-	-	2880	-	7,3	86,5	0,82	9,2	4
	3	4	100	B14	9,7	6,1	-	-	2900	-	9,9	87,1	0,89	8,8	5,5
	4	5,5	112	B14	-	-	8	4,6	2900	-	13	88,1	0,83	10,7	5,1
	5,5	7,5	132	B5	-	-	10,2	5,9	2935	-	17,9	89,2	0,87	11,2	4,2
	7,5	10	132	B5	-	-	14,4	8,3	2930	-	24,5	90,1	0,84	10,4	4,5
	11	15	160	B5	-	-	19,9	11,5	2935	-	35,8	91,2	0,89	9,7	4,4
	15	20	160	B5	-	-	26,8	15,5	2915	-	49,2	91,9	0,88	9,6	3,7
	18,5	25	160	B5	-	-	33	19,1	2950	-	59,9	92,4	0,88	10,7	4,6
	22	30	180	B5	-	-	39,4	22,8	2950	-	71,3	92,7	0,87	10,4	4,5
	30	40	200	B5	-	-	52,7	30,5	2925	-	97,9	93,3	0,88	6,7	2,4
	37	50	200	B5	-	-	63,3	36,6	2930	-	120,6	93,7	0,88	6,3	2,3
	45	60	225	B5	-	-	78,5	45,4	2930	-	146,7	94	0,88	6,9	2,3

Motors

NEW INTERNATIONAL EFFICIENCY CLASSES OF MOTORS – IE CODE

IEC 60034-30:2008 defines the efficiency classes of motors worldwide.

IE1 = Standard Efficiency (comparable to EFF2)

IE2 = High Efficiency (comparable to EFF1)

IE3 = Premium Efficiency

The efficiency levels according to IEC 60034-30 are measured based on the test methods defined in IEC 60034-2-1:2007.

The IEC 60034-30 only defines requirements of efficiency classes and aims to create provisions for international consistency.

It does not define which motors must be supplied with which efficiency level. This is subject to respective regional legislation.

Output	IE2 code Standard Efficiency			IE3 code Standard Efficiency		
	2 poles	4 poles	6 poles	2 poles	4 poles	6 poles
0,37	69,5	72,7	67,6	73,8	77,3	73,5
0,55	74,1	77,1	73,1	77,8	80,8	77,2
0,75	-	-	-	80,7	82,5	78,9
1,1	-	-	-	82,7	84,1	81
1,5	-	-	-	84,2	85,3	82,5
2,2	-	-	-	85,9	86,7	84,3
3	-	-	-	87,1	87,7	85,6
4	-	-	-	88,1	88,6	86,8
5,5	-	-	-	89,2	89,6	88
7,5	-	-	-	90,1	90,4	89,1
11	-	-	-	91,2	91,4	90,3
15	-	-	-	91,9	92,1	91,2
18,5	-	-	-	92,4	92,6	91,7
22	-	-	-	92,7	93	92,2
30	-	-	-	93,3	93,6	92,9
37	-	-	-	93,7	93,9	93,3
45	-	-	-	94	94,2	93,7

Efficiency values according to IEC 60034-30:2008.

Efficiency standard calculation: IEC 60034-2-1:2007

Noise

The noise level of an electrical machine is determined by measuring the sound pressure level in accordance with curve A of the sound level meter to EN 60651 and is indicated in dB (A). The permitted noise levels of electrical machines are fixed in EN 60034 - 9 (IEC 34-9). The noise level of the motors is below these limit values. Structure-borne sound measurements are carried out in an anechoic testing chamber to EN 21680-ISO 1680. The speed is corresponding to a main frequency of 50 Hz and the number of poles.

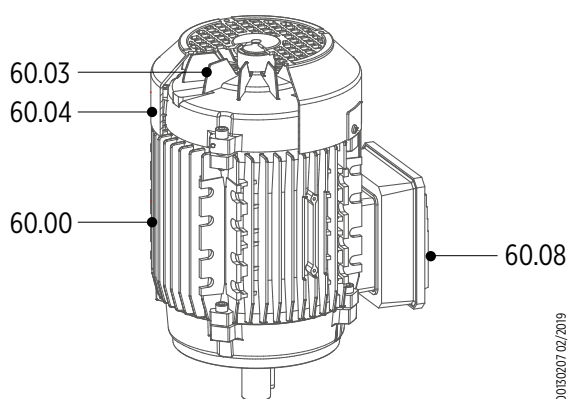
Noise levels

The noise values listed below refer to 50 Hz at rated voltage with a tolerance of up to +3 dB (A). Values for pole-changing motors are available on request. For 60 Hz supply, the values are 3-5 dB (A) higher. Sound pressure level (LpA) and sound power level (LWA) refers to three-phase motors with single-speed, dimensions and output ratings as per IEC 60072.

Frame size	2 poles		4 poles	
	LWA	LpA	LWA	LpA
56	57	48	47	38
63	58	49	47	38
71	61	52	51	42
80	72	60	60	48
90	74	62	61	49
100	78	66	62	50
112	80	68	65	53
132	81	72	71	59
160	87	74	75	62
180	90	77	78	66
200	91	78	80	68
225	92	80	88	76

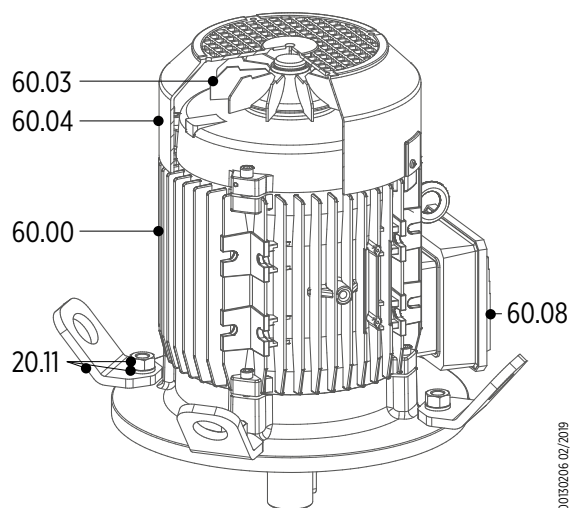
MOTORS SPARE PARTS

UP TO 4 KW



Ref. No.	Parts description
20.11	Last Stage with diffuser
60.00	Motor assembly
60.03	Fan
60.04	Fan cover and screws
60.08	Terminal box cover and base

FROM 5,5 KW

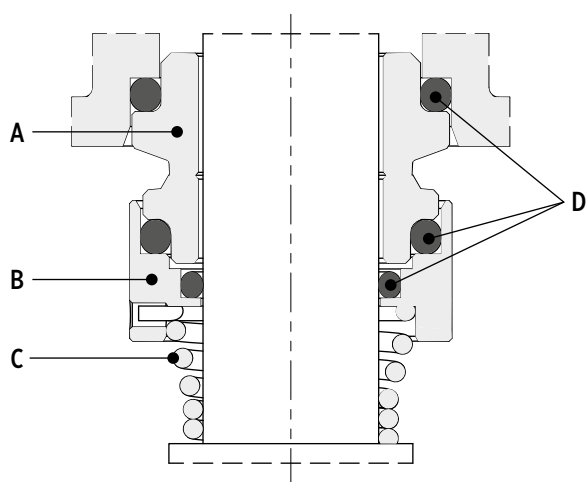


Cartridge mechanical seal specifications

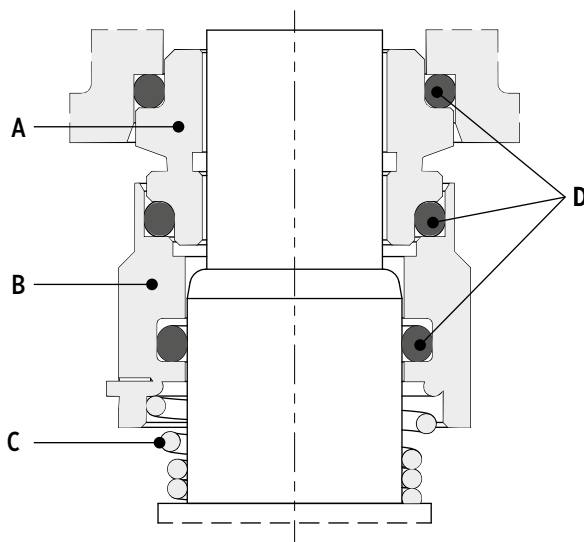
(fixed and rotating parts according to EN 12756)



UNBALANCED



BALANCED



00190241 02/2021

STANDARD VERSION (UNBALANCED)

Model	Type				Position				Temperature
					A Stationary part	B Rotating part	C Other components	D Elastomers	
BQE *	B	Q	G	E	Graphite	Silicon carbide	AISI 316	EPDM	-30 °C / +120 °C

AVAILABLE ON REQUEST

Model	Type				Position				Temperature
					A Stationary part	B Rotating part	C Other components	D Elastomers	
BQV*	B	Q	G	V	Silicon carbide	Silicon carbide	AISI 316	FKM	-10 °C / +120 °C
QQE*	Q	Q	G	E	Silicon carbide	Silicon carbide	AISI 316	EPDM	-30 °C / +120 °C
QQV*	Q	Q	G	V	Graphite	Silicon carbide	AISI 316	FKM	-10 °C / +120 °C
QUE *	Q	U	G	E	Tungsten carbide	Tungsten carbide	AISI 316	EPDM	-30 °C / +120 °C
UVV*	U	U	G	V	Silicon carbide	Tungsten carbide	AISI 316	FKM	-10 °C / +120 °C
UUE*	U	U	G	E	Tungsten carbide	Tungsten carbide	AISI 316	EPDM	-30 °C / +120 °C
QUV	Q	U	G	V	Silicon carbide	Tungsten carbide	AISI 316	FKM	-10 °C / +120 °C

* Available in balanced version "H..." (ex. BQE - standard version --> HBQE - balanced version)

Type	Material
B	Graphite
E	EPDM
G	AISI 316
Q	Silicon carbide
V	FKM
U	Tungsten carbide

Compatibility of fluids and materials

Application and sectors	Pump version				Concentration (%) Temperature [°C]
	I	G	N	P	
	Mechanical seal type				
WATER SUPPLY (CLEAN WATER)					
Water systems filtration and transfer; water works distribution and pressure boosting; residential, commercial buildings and industrial processes pressure boosting	BQE	BQE	BQE	BQE	100 %; +5 / +120 °C
Firefighting systems	BQE	BQE	BQE	BQE	100 %; +5 / +120 °C
Fountains	BQE	BQE	BQE	BQE	100 %; +5 / +120 °C
Drinkable water (only version approved for the application)	BQE	BQE	BQE	BQE	Models 1-20, Vers. I, N: 85°C Models 30-95, Vers. N: 85°C Models 30-95, Vers. G: 23°C
PRESSURE BOOSTING, TRANSFER AND RECIRCULATION - NON-FLAMMABLE, NON-CORROSIVE LIQUIDS					
Process-water systems (distilled, deionized, ...)	BQE	BQE	BQE	BQE	100 %; -25 / +110 °C
Car wash tunnels	BQE	BQE	BQE	BQE	100 %; +5 / +100 °C
Boiler feed systems (treated water) and condensate removal	BQE	(S)	BQE	BQE	100 %; -5 / +100 °C
Machine tools (cooling lubricants)	UUV	(S)	UUV	UUV	100 %; -5 / +100 °C
Coolant (Ethylene glycol-water solution)	-	-	BQE	BQE	max. 30 %; -20 / +120 °C
Coolant (Propylene glycol-water solution)	BQE	BQE	BQE	BQE	max. 30 %; -20 / +120 °C
LAMMABLE AND CORROSIVE LIQUID TRANSFER					
Flammable liquids	-	-	-	-	-
Mineral oils (I)	BQV	BQV	BQV	BQV	100 %; -5 / +110 °C
ACID OR BASIC SOLUTIONS, AGGRESSIVE LIQUIDS:					
Acetic acid	-	-	BQE	BQE (P)	max 80%; -10 / +70 °C
Aluminium sulfate	-	-	QQE	QQE	max 30%; -5 / +50 °C
Ammonia in water	BQE	-	BQE	BQE	max 25%; -20 / +50 °C
Ammonium sulfate	-	-	QQE	QQE	max 10%; -10 / +60 °C
Benzoic acid	-	-	BQV	BQV	max 70%; 0 / +70 °C
Brackish water	-	-	-	BQE	max 5%; 0 / +40 °C
Brine	-	-	-	BQE	max 5%; 0 / +40 °C
Caustic soda	QQE	QQE	QQE	QQE	max 25%; 0 / +70 °C
Chloroform	BQV	BQV	BQV	BQV	max 100%; -10 / +30 °C
Citric acid	BQE	-	BQE	BQE	max 5%; -10 / +70 °C
Copper sulfate	-	-	QQV	QQV	max 20%; +0 / +30 °C
Ferrous sulfate and ferric sulfate	-	-	BQE	BQE	max 10%; +5 / +30 °C
Formic acid	BQE	-	BQE	BQE	max 5%; -15 / +25 °C
Glycerine	BQE	BQE	BQE	BQE	max 100%; +20 / +90 °C
Hydrochloric acid	-	-	QQV	QQV	max 2%; -5 / +25 °C
Nitric acid	QQV	-	QQV	QQV	max 50%; -5 / +30 °C
Perchloroethylene	BQV	BQV	BQV	BQV	max 100%; -10 / +30 °C

"-" = Application not possible

(S) = Not recommended application

(P) = Recommended choice

(I) = Only for temperature < 0.2 times flash point [°C]

* Please contact the Technical Department.

This table should be considered a general guide. It is important to consider the specific working conditions, particularly the concentration, specific weight, and/or viscosity of the pumped liquid, as well as the liquid temperature and pressure. All of these factors affect motor and pump performance. When pumping dangerous liquids, it is recommended that you take safety precautions. For further details, please contact Franklin Electric.

Compatibility of fluids and materials

Application and sectors	Pump version				Concentration (%) Temperature [°C]
	I	G	N	P	
	Mechanical seal type				
Phosphates-polyphosphates	QQV	-	QQV	QQV	max 10%; -5 / +90 °C
Phosphoric acid	-	-	BQE	BQE	max 10%; -5 / +30 °C
Propylene glycol	BQE	BQE	BQE	BQE	max 30%; -30 / +120 °C
Sodium hypochlorite	-	-	QQV	QQV	max 1%; -10 / +25 °C
Sodium nitrate	-	-	QQE	QQE	max 10%; +5 / +60 °C
Sodium sulfate	QQE	QQE (S)	QQE	QQE (P)	max 15%; -10 / +40 °C
Sulphuric acid	QQV	QQV (S)	QQV	QQV (P)	max 2%; -10 / +25 °C
Tannic acid	-	-	BQE	BQE	max 20%; 0 / +50 °C
Tartaric acid	QQV	-	QQV	QQV	max 50%; -10 / +25 °C
Trichloroethylene	BQV	BQV	BQV	BQV	max 100%; -10 / +40 °C
AGRICULTURE AND FISH FARMING					
Clean water irrigation	BQE	BQE	BQE	BQE	100 %; +5 / +100 °C
Irrigation with added water (plant protection products, fertilizers, ...)	-	-	-	-	-
Fish farm (fresh water)	BQE	BQE	BQE	BQE	100 %; +5 / +100 °C
PROCESS-WATER TREATMENT *					
Ultra-filtration systems (maximum concentration of chlorides) *	-	-	-	BQE	-
Reverse osmosis systems (maximum concentration of chlorides) *	-	-	-	BQE	-
Softening, ionising, demineralising, distillation systems (fresh water pumping) *	BQE	BQE	BQE	BQE	-
Wash down and cleaning units (high aggressive detergents) *	-	-	QQE	QQE (P)	-
Transfer or processing of sea or saline water *	-	-	-	-	-
Gas separators *	BQE	BQE	BQE	BQE	-
Swimmings (max. Chlorine concentration)	-	-	BQE, BQV	BQE, BQV	-

"-" = Application not possible

(S) = Not recommended application

(P) = Recommended choice

(I) = Only for temperature < 0.2 times flash point [°C]

* Please contact the Technical Department.

This table should be considered a general guide. It is important to consider the specific working conditions, particularly the concentration, specific weight, and/or viscosity of the pumped liquid, as well as the liquid temperature and pressure. All of these factors affect motor and pump performance. When pumping dangerous liquids, it is recommended that you take safety precautions. For further details, please contact Franklin Electric.



Performance curves and technical data

ErP Regulation

Information related to energy performance of the pump, according to Reg. 547/2012 CE:

Minimum efficiency index: $MEI \geq 0.7$;

The benchmark for most efficient water pumps is $MEI \geq 0.70$;

Year of manufacture: see nameplate or the label in the Instruction manual;

Manufacturer's name or trade mark, commercial registration number and place of manufacture: see nameplate or the label in the Instruction manual;

- 1) Product's type and size identificatory: see nameplate or the label in the Instruction manual;
- 2) Hydraulic pump efficiency with trimmed impeller: see nameplate or the label in the Instruction manual;
- 3) Pump performance curves for the pump, including efficiency characteristics: see technical datasheet (<http://franklinwater.eu/products/>);
- 4) The efficiency of a pump with a 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 reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter;
- 5) The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system;
- 6) Information relevant for disassembly, recycling or disposal at end-of-life: see the Instruction manual;
- 7) ---;
- 8) ---;
- 9) ---;
- 10) Information on benchmark efficiency is available at <http://europump.net/uploads/Fingerprints.pdf>;
- 11) Benchmark efficiency graph for $MEI = 0.7$ and for $MEI = 0.4$ available at: <http://europump.net/uploads/Fingerprints.pdf>;

Information related to energy performance of the motor, according to Reg. 2019/1781 CE and modifications:

- 1) Nominal efficiency (η) at the full, 75 % and 50 % rated load and voltage (UN): see motor nameplate or the Catalogue (<http://franklinwater.eu/products/>);
- 2) Efficiency level: see motor nameplate or the catalogue;
- 3) The year of manufacture: see motor nameplate;
- 4) Manufacturer's name or trade mark, commercial registration number and place of manufacturer: see the motor nameplate;
- 5) product's model number: see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
- 6) Number of poles of the motor: see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
- 7) The rated power output(s) or range of rated power output (kW): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
- 8) The rated input frequency(s) of the motor (Hz): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
- 9) The rated voltage(s) or range of rated voltage (V): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
- 10) The rated speed(s) or range of rated speed (rpm): see motor nameplate or the catalogue (<http://franklinwater.eu/products/>);
- 11) Information relevant for disassembly, recycling or disposal at end-of-life: see the motor Instruction manual;
- 12) information on the range of operating conditions for which the motor is specifically designed (<http://franklinwater.eu/products/>):
 - a. altitudes above sea-level: 0-1000 m;
 - b. ambient air temperatures, including for motors with air cooling: max. 40°C;
 - c. ---;
 - d. maximum operating temperature: max. 60°C;
 - e. ---.

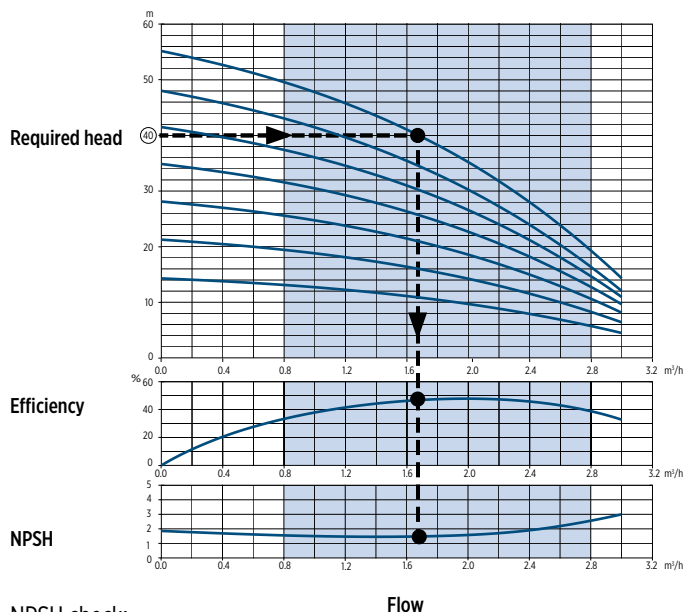
Performance selection

This section explains how to choose the pump model that best meets your needs.

The following information are required:

- Required flow
- Input and output pressure
- Fluid features: density, viscosity, temperature, chemical aggressiveness, and presence of abrasive particles.
- The connection type

Verify that the selected pump piping type can withstand the required maximum working pressure (pump nominal pressure $P_N \geq$ application nominal pressure).



The difference between the required outlet pressure and the input pressure determines the head that the pump must supply to the fluid. The duty point is determined by crossing the flow and head values.

To ensure you get the best multistage pump, follow these steps:
Select the pump family according to the requested flow rate, choosing the one closest to the best efficiency point.

- 1) Choose the number of stages that is closest to the requested head.
- 2) Draw a vertical line from the duty point to determine the absorbed power, pump efficiency, and required NPSH.

If the viscosity of the fluid differs significantly from that of clean water at ambient temperature, it is necessary to adjust the selection parameters (contact the manufacturer). Additionally, if the density or viscosity is higher than that of water, a higher power sizing will be necessary (contact the manufacturer).

NPSH check:

Compare the available pump input NPSH value with the required pump value to avoid performance losses and pump wear.

The maximum height of the pump above the liquid level (H) can be calculated using this formula

$$H = p_b \times 10.2 - NPSH - H_f - H_v - H_s$$

Where:

p_b : Absolute barometric pressure or absolute pressure of the liquid on suction side [bar].

NPSH: Suction head at maximum duty flow rate [m]

H_f : Pressure drop in the suction pipe at maximum flow rate [m]

H_v : Vapour pressure [m] depending on the temperature of the liquid [m]

H_s : Safety margin [m] (minimum 0.5)

If the calculated value is less than 0, the pump must be positioned below the liquid level by the value of H.

Construction materials selection:

Select the mechanical seal and elastomers based on their compatibility with the pumped fluid and the presence of abrasive particles.

Similarly, pump materials (metal alloys) must be chosen according to the aggressiveness of the liquid. Liquid aggressivity usually increases with acidity or basicity, concentration of dissolved chlorides and salts, and working temperature.

Refer to the "Compatibility of Fluids and Materials" table on page 18 for the correct selection.

Hydraulic performance 50 Hz

EVR 1

Pump model	Rated power		P _{lmax} * Bar	Q = Delivery								
				l/min 0	8,3	13,3	23,3	26,7	33,3	40	46,7	53,3
				m ³ /h 0	0,5	0,8	1,4	1,6	2	2,4	2,8	3,2
				US gpm 0	2,2	3,5	6,2	7	8,8	10,6	12,3	14,1
	[kW]	[HP]		H = Total meters head of water column [m]								
1EVR0200-FIS-T52B003-BQE-L2	0,37	0,5	2	14,3		13,1	11,7	11,1	9,7	7,9	5,7	
1EVR0300-FIS-T52B003-BQE-L2	0,37	0,5	3	21,3		19,4	17,3	16,4	14,2	11,5	8,3	
1EVR0400-FIS-T52B003-BQE-L2	0,37	0,5	4	28,1		25,6	22,7	21,5	18,6	15	10,6	
1EVR0500-FIS-T52B003-BQE-L2	0,37	0,5	5	34,9		31,6	27,9	26,3	22,7	18,2	12,7	
1EVR0600-FIS-T52B003-BQE-L2	0,37	0,5	6	41,5		37,4	32,9	31	26,6	21,2	14,6	
1EVR0700-FIS-T52B003-BQE-L2	0,37	0,5	7	48,6		43,8	38,5	36,4	31,3	25	17,3	
1EVR0800-FIS-T52B005-BQE-L2	0,55	0,75	8	55,1		49,5	43,5	41	35,2	28	19,3	
1EVR0900-FIS-T52B005-BQE-L2	0,55	0,75	9	61,6		55,1	48,4	45,6	39,1	31	21,1	
1EVR1000-FIS-T52B005-BQE-L2	0,55	0,75	10	67,9		60,7	53,3	50,2	42,9	33,9	22,9	
1EVR1100-FIS-T52B005-BQE-L2	0,55	0,75	11	76,4		69	60,8	57,4	49,3	39,4	27,4	
1EVR1200-FIS-T52B007-BQE-L3	0,75	1	12	83		74,8	65,7	62	53,2	42,4	29,3	
1EVR1300-FIS-T52B007-BQE-L3	0,75	1	14	89,5		80,5	70,6	66,5	57	45,3	31,1	
1EVR1400-FIS-T52B007-BQE-L3	0,75	1	15	96		86,1	75,4	71	60,6	48	32,8	
1EVR1500-FIS-T52B007-BQE-L3	0,75	1	16	102,4		91,7	80,1	75,3	64,2	50,7	34,4	
1EVR1700-FIS-T52B011-BQE-L3	1,1	1,5	18	118		106,6	93,9	88,6	76,2	60,9	42,4	
1EVR1900-FIS-T52B011-BQE-L3	1,1	1,5	20	131,2		118,1	103,8	97,8	83,9	66,8	46,1	
1EVR2200-FIS-T52B011-BQE-L3	1,1	1,5	19	150,7		135,1	118,2	111,2	94,9	75,1	51,2	
1EVR2300-FIS-T52B015-BQE-L3	1,5	2	19	160,4		145,2	128,1	121	104,2	83,6	58,5	
1EVR2500-FIS-T52B015-BQE-L3	1,5	2	18	173,8		156,9	138,3	130,5	112,1	89,7	62,4	
1EVR2700-FIS-T52B015-BQE-L3	1,5	2	18	187		168,5	148,2	139,7	119,9	95,6	66,2	
1EVR3000-FIS-T52B015-BQE-L3	1,5	2	17	206,6		185,6	162,7	153,3	131,1	104,1	71,5	
1EVR3200-FIS-T52B030-BQE-L3	3	4	16	224,5		203,8	180,4	170,6	147,3	118,6	83,7	
1EVR3400-FIS-T52B030-BQE-L3	3	4	16	238		215,8	190,7	180,3	155,5	125	87,9	
1EVR3700-FIS-T52B030-BQE-L3	3	4	15	258,1		233,6	206,1	194,6	167,6	134,4	94,1	

Application range

* P_{lmax} = maximum suction pressure at full speed

EVR 3

Pump model	Rated power		P _{lmax} * Bar	Q = Delivery									
				l/min 0	13,3	23,3	26,7	33,3	40	46,7	53,3	60	70
				m ³ /h 0	0,8	1,4	1,6	2	2,4	2,8	3,2	3,6	4,2
				US gpm 0	3,5	6,2	7	8,8	10,6	12,3	14,1	15,8	18,5
	[kW]	[HP]		H = Total meters head of water column [m]									
3EVR0200-FIS-T52B003-BQE-L2	0,37	0,5	2	15,2		14,4	14,2	13,7	12,9	12,1	11	9,7	7,4
3EVR0300-FIS-T52B003-BQE-L2	0,37	0,5	3	22,6		21,3	20,9	20	18,9	17,6	15,9	14	10,5
3EVR0400-FIS-T52B003-BQE-L2	0,37	0,5	4	29,8		27,8	27,3	26,1	24,5	22,7	20,5	17,8	13,2
3EVR0500-FIS-T52B005-BQE-L2	0,55	0,75	5	37,3		34,7	34,1	32,5	30,7	28,4	25,6	22,4	16,5
3EVR0600-FIS-T52B005-BQE-L2	0,55	0,75	6	44,4		41,1	40,3	38,4	36,2	33,4	30,1	26,2	19,2
3EVR0700-FIS-T52B007-BQE-L3	0,75	1	7	52,4		49,1	48,3	46,2	43,5	40,3	36,5	32	23,8
3EVR0800-FIS-T52B007-BQE-L3	0,75	1	8	59,6		55,6	54,6	52,2	49,1	45,4	41	35,8	26,4
3EVR0900-FIS-T52B007-BQE-L3	0,75	1	9	66,8		62	60,8	58	54,5	50,3	45,2	39,4	28,8
3EVR1000-FIS-T52B011-BQE-L3	1,1	1,5	10	75,1		70,5	69,3	66,3	62,6	58,1	52,6	46,1	34,5
3EVR1100-FIS-T52B011-BQE-L3	1,1	1,5	11	82,3		77,1	75,8	72,4	68,3	63,2	57,2	50,1	37,2
3EVR1200-FIS-T52B011-BQE-L3	1,1	1,5	12	89,6		83,6	82,1	78,4	73,9	68,3	61,7	53,9	39,8
3EVR1300-FIS-T52B011-BQE-L3	1,1	1,5	14	96,7		90	88,4	84,3	79,3	73,3	66	57,6	42,3

Application range

* P_{lmax} = maximum suction pressure at full speed

Hydraulic performance 50 Hz

EVR 3

Pump model	Rated power		P _{1max} * Bar	Q = Delivery											
				l/min 0	13,3	23,3	26,7	33,3	40	46,7	53,3	60	70	83,3	
				m ³ /h 0	0,8	1,4	1,6	2	2,4	2,8	3,2	3,6	4,2	5	
				US gpm 0	3,5	6,2	7	8,8	10,6	12,3	14,1	15,8	18,5	83,3	
	[kW]	[HP]		H = Total meters head of water column [m]											
3EVR1400-FIS-T52B015-BQE-L3	1,5	2	15	105,4		99,2	97,5	93,3	88,2	81,8	74,2	65,2	48,8		
3EVR1500-FIS-T52B015-BQE-L3	1,5	2	16	112,7		105,8	104	99,5	93,9	87	78,8	69,1	51,6		
3EVR1600-FIS-T52B015-BQE-L3	1,5	2	17	120		112,4	110,4	105,6	99,6	92,2	83,4	73,1	54,4		
3EVR1700-FIS-T52B015-BQE-L3	1,5	2	18	127,2		118,9	116,8	111,6	105,2	97,3	87,9	76,9	57		
3EVR1800-FIS-T52B022-BQE-L3	2,2	3	18	136,4		129	126,9	121,7	115,2	107,2	97,4	86	65,1		
3EVR1900-FIS-T52B022-BQE-L3	2,2	3	18	143,8		135,8	133,6	128,1	121,2	112,6	102,4	90,2	68,2		
3EVR2100-FIS-T52B022-BQE-L3	2,2	3	17	158,5		149,3	146,8	140,7	132,9	123,5	112	98,6	74,1		
3EVR2300-FIS-T52B022-BQE-L3	2,2	3	17	173,2		162,7	159,9	153,1	144,5	134,1	121,5	106,7	79,9		
3EVR2500-FIS-T52B022-BQE-L3	2,2	3	16	187,7		176	172,9	165,4	156	144,5	130,8	114,6	85,4		
3EVR2700-FIS-T52B030-BQE-L3	3	4	15	205,3		194,6	191,5	183,8	174,1	162,2	147,7	130,5	99,3		
3EVR2900-FIS-T52B030-BQE-L3	3	4	14	220,1		208,4	205	196,7	186,3	173,3	157,7	139,3	105,7		
3EVR3100-FIS-T52B030-BQE-L3	3	4	13	235		222,1	218,5	209,5	198,3	184,4	167,6	147,9	111,9		
3EVR3300-FIS-T52B030-BQE-L3	3	4	13	249,7		235,7	231,8	222,2	210,1	195,3	177,4	156,3	118		

Application range

* P1max = maximum suction pressure at full speed

EVR 6

Pump model	Rated power		P _{1max} * Bar	Q = Delivery									
				l/min 0	40	46,7	53,3	60	70	83,3	100	120	133,3
				m ³ /h 0	2,4	2,8	3,2	3,6	4,2	5	6	7,2	8
				US gpm 0	10,6	12,3	14,1	15,8	18,5	83,3	26,4	31,7	35,2
	[kW]	[HP]		H = Total meters head of water column [m]									
6EVR0200-FIS-T52B003-BQE-L2	0,37	0,5	3	15,1		13,8	13,4	13	12,3	11,3	9,9	7,5	
6EVR0300-FIS-T52B003-BQE-L2	0,37	0,5	4	22,3		20	19,3	18,6	17,6	16,1	14	10,3	
6EVR0400-FIS-T52B005-BQE-L2	0,55	0,75	6	29,6		26,5	25,7	24,8	23,4	21,5	18,7	13,7	
6EVR0500-FIS-T52B007-BQE-L3	0,75	1	8	37,4		33,9	32,9	31,7	30	27,6	24,1	17,9	
6EVR0600-FIS-T52B007-BQE-L3	0,75	1	9	44,5		40	38,7	37,3	35,2	32,3	28,1	20,7	
6EVR0700-FIS-T52B011-BQE-L3	1,1	1,5	11	52,5		47,8	46,4	44,8	42,4	39	34,2	25,6	
6EVR0800-FIS-T52B011-BQE-L3	1,1	1,5	12	59,7		54,1	52,4	50,6	47,8	43,9	38,3	28,5	
6EVR0900-FIS-T52B011-BQE-L3	1,1	1,5	14	66,8		60,2	58,2	56,2	53,1	48,6	42,3	31,2	
6EVR1000-FIS-T52B015-BQE-L3	1,5	2	16	75,2		68,6	66,5	64,3	60,9	56	49,1	36,8	
6EVR1100-FIS-T52B015-BQE-L3	1,5	2	17	82,4		74,9	72,6	70,1	66,3	60,9	53,3	39,8	
6EVR1200-FIS-T52B015-BQE-L3	1,5	2	19	89,6		81	78,5	75,8	71,6	65,7	57,4	42,6	
6EVR1300-FIS-T52B015-BQE-L3	1,5	2	20	96,8		87,1	84,4	81,4	76,9	70,4	61,4	45,3	
6EVR1400-FIS-T52B022-BQE-L3	2,2	3	19	105,7		96,9	94,1	91	86,3	79,4	69,8	52,7	
6EVR1500-FIS-T52B022-BQE-L3	2,2	3	19	113,1		103,3	100,3	97	91,9	84,5	74,2	55,8	
6EVR1600-FIS-T52B022-BQE-L3	2,2	3	19	120,3		109,7	106,4	102,9	97,4	89,6	78,5	58,9	
6EVR1700-FIS-T52B022-BQE-L3	2,2	3	18	127,6		116	112,5	108,8	102,9	94,5	82,8	61,9	
6EVR1800-FIS-T52B022-BQE-L3	2,2	3	18	134,8		122,3	118,5	114,5	108,3	99,4	87	64,8	
6EVR1900-FIS-T52B030-BQE-L3	3	4	18	142		128,5	124,5	120,2	113,6	104,2	91,1	67,6	
6EVR2000-FIS-T52B030-BQE-L3	3	4	17	151,8		139,9	135,9	131,7	124,9	115,1	101,4	77,2	
6EVR2100-FIS-T52B030-BQE-L3	3	4	16	159,2		146,5	142,3	137,8	130,7	120,4	106	80,5	

Application range

* P1max = maximum suction pressure at full speed

Hydraulic performance 50 Hz

EVR 6

Pump model	Rated power		P _{1max} * Bar	Q = Delivery									
				l/min 0	40	46,7	53,3	60	70	83,3	100	120	133,3
				m³/h 0	2,4	2,8	3,2	3,6	4,2	5	6	7,2	8
				US gpm 0	10,6	12,3	14,1	15,8	18,5	83,3	26,4	31,7	35,2
	[kW]	[HP]		H = Total meters head of water column [m]									
6EVR2300-FIS-T52B030-BQE-L3	3	4	16	173,9		159,6	154,9	150	142,1	130,8	115,1	87	
6EVR2500-FIS-T52B030-BQE-L3	3	4	15	189,2		172,2	167,6	162,8	154,8	142,6	123,5	92,9	
6EVR2800-FIS-T52C040-BQE-L3	4	5,5	14	214,2		196,8	191,9	186,6	177,9	164,4	143,2	109	
6EVR3000-FIS-T52C040-BQE-L3	4	5,5	13	229,1		210,1	204,8	199,1	189,8	175,3	152,5	115,9	
6EVR3300-FIS-T52C040-BQE-L3	4	5,5	12	251,5		229,9	224	217,7	207,4	191,3	166,1	125,9	
6EVR3600-VIS-T52C055-BQE-L3	5,5	7,5	10	275,2		252,9	246,6	239,8	228,7	211,4	184	140,2	

Application range

* P1max = maximum suction pressure at full speed

EVR 10

Pump model	Rated power		P _{1max} * Bar	Q = Delivery												
				l/min 0	83,3	100	120	133,3	150	166,7	183,3	200	216,7	233,3	266,7	
				m³/h 0	5	6	7,2	8	9	10	11	12	13	14	16	
	US gpm 0	83,3		26,4	31,7	35,2	39,6	44	48,4	52,8	57,2	61,6	70,3			
	[kW]	[HP]		H = Total meters head of water column [m]												
10EVR0200-FIS-T52B007-BQE-L3	0,75	1	4	20,1		18,3	17,5	16,9	16	14,9	13,7	12,2	10,5	8,8		
10EVR0300-FIS-T52B011-BQE-L3	1,1	1,5	6	30,2		27,6	26,3	25,4	24	22,5	20,6	18,3	15,8	13,3		
10EVR0400-FIS-T52B015-BQE-L3	1,5	2	8	40,5		37,1	35,4	34,2	32,4	30,3	27,9	24,9	21,5	18,1		
10EVR0500-FIS-T52B015-BQE-L3	1,5	2	10	50,3		45,5	43,3	41,7	39,4	36,8	33,7	29,9	25,8	21,6		
10EVR0600-FIS-T52B022-BQE-L3	2,2	3	12	60,9		55,9	53,5	51,6	48,9	45,8	42,2	37,6	32,6	27,5		
10EVR0700-FIS-T52B022-BQE-L3	2,2	3	15	70,7		64,5	61,5	59,3	56,1	52,5	48,2	42,9	37,1	31,2		
10EVR0800-FIS-T52B030-BQE-L3	3	4	17	81,7		75,7	72,5	70,1	66,6	62,5	57,7	51,7	44,9	38		
10EVR0900-FIS-T52B030-BQE-L3	3	4	19	91,7		84,6	81	78,2	74,2	69,6	64,1	57,4	49,8	42,1		
10EVR1000-FIS-T52C040-BQE-L3	4	5,5	20	102,8		95,9	92	89	84,6	79,6	73,6	66,2	57,6	49		
10EVR1100-FIS-T52C040-BQE-L3	4	5,5	19	112,9		105	100,7	97,3	92,5	87	80,4	72,2	62,8	53,3		
10EVR1200-FIS-T52C040-BQE-L3	4	5,5	19	122,9		114,1	109,3	105,6	100,3	94,2	87	78	67,8	57,5		
10EVR1300-FIS-T52C040-BQE-L3	4	5,5	18	132,9		123	117,7	113,7	108	101,3	93,5	83,8	72,8	61,6		
10EVR1500-FIS-T52C055-BQE-L3	5,5	7,5	17	153,6		142,7	136,8	132,2	125,6	118	109	97,8	85,1	72,1		
10EVR1700-FIS-T52C055-BQE-L3	5,5	7,5	16	173,6		160,7	153,8	148,5	141	132,4	122,1	109,4	95	80,4		
10EVR1900-FIS-T52C075-BQE-L3	7,5	10	15	195,1		182	174,6	168,8	160,6	151	139,7	125,5	109,3	92,9		
10EVR2100-FIS-T52C075-BQE-L3	7,5	10	14	215,2		200,2	191,9	185,5	176,4	165,8	153,2	137,5	119,6	101,5		
10EVR2300-FIS-T52C075-BQE-L3	7,5	10	14	235,3		218,3	209,1	202,1	192	180,3	166,5	149,3	129,7	109,9		
10EVR2400-FIS-T52C110-BQE-L3	11	15	12	248,2		234	225	218	207,8	195,9	181,8	164,1	143,5	122,4		

Application range

* P1max = maximum suction pressure at full speed

Hydraulic performance 50 Hz

EVR 15

Pump model	Rated power		P ₁ max Bar *	Q = Delivery													
				l/min 0	100	120	150	166,7	183,3	200	216,7	233,3	266,7	300	350	400	433,3
				m³/h 0	6	7,2	9	10	11	12	13	14	16	18	21	24	26
	US gpm 0	26,4		31,7	39,6	44	48,4	52,8	57,2	61,6	70,3	79,1	92,3	105,5	114,3		
	[kW]	[HP]	H = Total meters head of water column [m]														
15EVR0100-FIS-T52B007-BQE-L3	0,75	1	5	13		11,7	11,6	11,4	11,1	10,8	10,4	10,1	9,1	7,9	5,6	-	
15EVR0200-FIS-T52B015-BQE-L3	1,5	2	11	27,1		24,3	23,9	23,5	22,9	22,3	21,7	21,1	19,3	17,2	13,1	8	
15EVR0300-FIS-T52B022-BQE-L3	2,2	3	16	41,2		37,4	36,7	36,1	35,3	34,4	33,6	32,7	30,1	27,1	20,8	13,5	
15EVR0400-FIS-T52B030-BQE-L3	3	4	20	55,1		50,2	49,3	48,5	47,5	46,3	45,2	44	40,6	36,6	28,2	18,5	
15EVR0500-FIS-T52C040-BQE-L3	4	5,5	20	72,3		64,7	63,7	62,6	61,5	60,1	58,5	57,2	53,6	48,7	38,9	27,6	
15EVR0600-FIS-T52C055-BQE-L3	5,5	7,5	20	88		80,1	78,9	77,7	76,4	74,9	73,3	71,7	68	62,4	51,3	37,5	
15EVR0700-FIS-T52C055-BQE-L3	5,5	7,5	20	102,5		93	91,5	90,1	88,6	86,8	84,9	83	78,6	72	59,1	43	
15EVR0800-FIS-T52C075-BQE-L3	7,5	10	20	116,9		105,9	104,2	102,6	100,8	98,8	96,5	94,4	89,3	81,7	66,9	48,5	
15EVR0900-FIS-T52C075-BQE-L3	7,5	10	19	131,2		118,5	116,6	114,8	112,7	110,4	107,9	105,5	99,7	91,1	74,3	53,6	
15EVR1000-FIS-T52C110-BQE-L3	11	15	18	147,3		134,1	132,1	130,1	127,9	125,5	122,8	120,2	114,1	104,8	86,3	63,4	
15EVR1100-FIS-T52C110-BQE-L3	11	15	18	161,7		147,1	144,9	142,7	140,3	137,6	134,6	131,7	125	114,7	94,4	69,2	
15EVR1200-FIS-T52C110-BQE-L3	11	15	17	176,2		160	157,6	155,2	152,6	149,6	146,3	143,2	135,7	124,5	102,3	74,8	
15EVR1300-FIS-T52C110-BQE-L3	11	15	16	190,6		172,9	170,3	167,7	164,8	161,6	158	154,6	146,4	134,2	110,1	80,3	
15EVR1400-FIS-T52C110-BQE-L3	11	15	16	204,9		185,7	182,9	180	176,9	173,4	169,5	165,9	157	143,8	117,8	85,7	
15EVR1500-FIS-T52C150-BQE-L3	15	20	15	220,7		200,2	197,2	194,2	190,8	187,1	183	179	169,7	155,7	127,8	93,4	
15EVR1600-FIS-T52C150-BQE-L3	15	20	15	235,1		213,1	209,8	206,6	203	199	194,6	190,4	180,3	165,3	135,6	98,9	
15EVR1700-FIS-T52C150-BQE-L3	15	20	14	249,4		225,9	222,4	219	215,1	210,9	206,1	201,6	190,9	174,8	143,3	104,2	

Application range

* P1max = maximum suction pressure at full speed

EVR 20

Pump model	Rated power		P ₁ max Bar *	Q = Delivery														
				l/min 0	150	166,7	183,3	200	216,7	233,3	266,7	300	350	400	433,3	466,7	500	
				m ³ /h 0	9	10	11	12	13	14	16	18	21	24	26	28	30	
				US gpm 0	39,6	44	48,4	52,8	57,2	61,6	70,3	79,1	92,3	105,5	114,3	123,1	131,9	
	[kW]	[HP]	H = Total meters head of water column [m]															
20EVR0100-FIS-T52B011-BQE-L3	1,1	1,5	5	14,3		12,9	12,8	12,5	12,2	11,9	11,4	10,5	9	6,7	4	-		
20EVR0200-FIS-T52B022-BQE-L3	2,2	3	11	29,7		26,9	26,6	26,3	26	25,5	24,5	23,3	20,7	17,1	13,9	10,6		
20EVR0300-FIS-T52B030-BQE-L3	3	4	16	45		40,9	40,4	39,9	39,2	38,5	37,2	35,5	31,6	25,8	21,5	16,6		
20EVR0400-FIS-T52C040-BQE-L3	4	5,5	20	62,2		55,7	54,9	54,2	53,7	52,8	50,9	49	44	36,8	31,1	25,2		
20EVR0500-FIS-T52C055-BQE-L3	5,5	7,5	20	78,6		70,8	69,9	69	68,5	67,4	65,1	62,8	56,9	47,9	41	33,5		
20EVR0600-FIS-T52C075-BQE-L3	7,5	10	19	94,2		86,2	85,1	84,1	83,2	82,2	79,7	77,3	70	59,4	51,3	42		
20EVR0700-FIS-T52C075-BQE-L3	7,5	10	19	109,5		99,8	98,5	97,4	96,3	95,1	92,2	89,2	80,6	68,2	58,7	47,9		
20EVR0800-FIS-T52C110-BQE-L3	11	15	17	126,5		116,1	114,7	113,5	112,3	111	107,9	104,8	95,4	81,4	70,7	58,3		
20EVR0900-FIS-T52C110-BQE-L3	11	15	17	142		130,2	128,6	127,2	125,9	124,4	120,8	117,3	106,7	90,8	78,7	64,8		
20EVR1000-FIS-T52C110-BQE-L3	11	15	16	157,5		144,2	142,4	140,8	139,3	137,7	133,6	129,6	117,7	100,1	86,6	71,1		
20EVR1100-FIS-T52C150-BQE-L3	15	20	15	174		159,4	157,4	155,7	154,1	152,3	147,9	143,5	130,5	111,2	96,4	79,3		
20EVR1200-FIS-T52C150-BQE-L3	15	20	14	189,5		173,4	171,2	169,3	167,6	165,5	160,7	155,8	141,6	120,4	104,2	85,6		
20EVR1300-FIS-T52C150-BQE-L3	15	20	13	204,9		187,3	184,9	182,8	180,9	178,7	173,4	168,1	152,5	129,5	111,9	91,7		
20EVR1400-FIS-T52C150-BQE-L3	15	20	13	220,3		201,1	198,5	196,2	194,1	191,7	186	180,2	163,2	138,4	119,4	97,7		
20EVR1500-FIS-T52C185-BQE-L3	18,5	25	11	237,4		218,1	215,4	213,1	211	208,6	202,6	196,8	179,4	153,1	133	109,7		
20EVR1600-FIS-T52C185-BQE-L3	18,5	25	10	252,9		232,2	229,4	226,9	224,6	222	215,6	209,4	190,7	162,7	141,1	116,3		
20EVR1700-FIS-T52C185-BQE-L3	18,5	25	10	268,5		246,3	243,3	240,6	238,2	235,4	228,6	221,9	202	172,1	149,2	122,8		

Application range

* P1max = maximum suction pressure at full speed

Hydraulic performance 50 Hz

EVR 30

Pump model	Rated power		P _{1max} * Bar	Q = Delivery							
				l/min 0	350	417	500	566,7	666,7	700	800
				m³/h 0	21	25	30	34	40	42	48
	US gpm 0	92,3		109,9	131,9	149,5	175,9	184,7	211		
	[kW]	[HP]		H = Total meters head of water column [m]							
30EVR0100-FGS-T52B022-HBQE-L3	2,2	3	3	24,8		18,6	17,2	15,8	12,7	11,6	
30EVR022A-FGS-T52C040-HBQE-L3	4	5,5	3	36,2		29,3	26,3	23,1	17,8	15,7	
30EVR021A-FGS-T52C040-HBQE-L3	4	5,5	7	42,8		34,3	31,6	28,8	23,4	21,3	
30EVR0200-FGS-T52C055-HBQE-L3	5,5	7,5	9	48,5		39,6	36,9	34,4	29,1	27,2	
30EVR032A-FGS-T52C055-HBQE-L3	5,5	7,5	9	60,3		49	44,9	40,6	32,7	29,6	
30EVR031A-FGS-T52C075-HBQE-L3	7,5	10	13	67,5		54,1	50,1	46,1	38	35	
30EVR0300-FGS-T52C075-HBQE-L3	7,5	10	14	72,2		58,2	54,2	50,3	42,4	39,5	
30EVR042A-FGS-T52C075-HBQE-L3	7,5	10	14	85,1		68,6	63,9	58,4	48,8	44,7	
30EVR041A-FGS-T52C110-HBQE-L3	11	15	18	92,8		75,3	70,2	65,2	54,8	50,8	
30EVR0400-FGS-T52C110-HBQE-L3	11	15	20	99,4		81	76,3	71,8	62,2	58,5	
30EVR052A-FGS-T52C110-HBQE-L3	11	15	20	109,2		89,5	82,9	76,2	63,5	58,5	
30EVR051A-FGS-T52C110-HBQE-L3	11	15	20	115,1		93,6	87	80,6	67,5	62,4	
30EVR0500-FGS-T52C150-HBQE-L3	15	20	20	121,1		99,3	93,1	87,4	74,9	70	
30EVR062A-FGS-T52C150-HBQE-L3	15	20	20	133,8		109,6	101,7	93,9	78,7	72,7	
30EVR061A-FGS-T52C150-HBQE-L3	15	20	20	139,7		113,7	105,8	98,3	82,7	76,6	
30EVR0600-FGS-T52C150-HBQE-L3	15	20	20	145,6		119,3	111,9	105	90,1	84,2	
30EVR072A-FGS-T52C150-HBQE-L3	15	20	20	157,5		128,3	119,1	110,1	92,3	85,3	
30EVR071A-FGS-T52C150-HBQE-L3	15	20	20	163,3		132,3	123,2	114,4	96,2	89,1	
30EVR0700-FGS-T52C185-HBQE-L3	18,5	25	20	169,2		137,9	129,1	121	103,5	96,6	
30EVR082A-FGS-T52C185-HBQE-L3	18,5	25	20	185,5		152	142	132,5	112,8	105,1	
30EVR081A-FGS-T52C185-HBQE-L3	18,5	25	20	191,9		156,4	146,6	137,4	117,4	109,6	
30EVR0800-FGS-T52C185-HBQE-L3	18,5	25	20	198,4		162,5	153	144,6	125,4	117,8	
30EVR092A-FGS-T52C220-HBQE-L3	22	30	20	209,8		171,4	160,2	149,5	127,4	118,7	
30EVR091A-FGS-T52C220-HBQE-L3	22	30	18	216,2		175,8	164,7	154,4	131,9	123,1	
30EVR0900-FGS-T52C220-HBQE-L3	22	30	18	222,7		181,8	171,1	161,5	139,8	131,3	
30EVR102A-FGS-T52C220-HBQE-L3	22	30	18	234		190,6	178,1	166,3	141,7	132,1	
30EVR101A-FGS-T52C220-HBQE-L3	22	30	18	240,3		194,9	182,6	171,1	146,1	136,4	
30EVR1000-FGS-T52C300-HBQE-W3	30	40	17	246,8		200,9	188,9	178,2	154	144,5	
30EVR112A-FGS-T52C300-HBQE-W3	30	40	16	262,9		218,3	205,1	192,7	166,3	155,8	
30EVR111A-FGS-T52C300-HBQE-W3	30	40	15	269,5		222,9	209,9	197,8	171,2	160,5	
30EVR1100-FGS-T52C300-HBQE-W3	30	40	15	276,2		229,2	216,5	205,3	179,4	169,1	
30EVR122A-FGS-T52C300-HBQE-W3	30	40	14	288,1		240	226	213	184,4	173,3	
30EVR121A-FGS-T52C300-HBQE-W3	30	40	14	294,7		244,8	230,9	218,4	189,7	178,6	
30EVR1200-FGS-T52C300-HBQE-W3	30	40	13	301,4		251,1	237,8	226	197,6	188	
30EVR132A-FGS-T52C300-HBQE-W3	30	40	13	313		260,4	245,3	231,3	200,3	188,3	
30EVR131A-FGS-T52C300-HBQE-W3	30	40	12	319,6		265,2	250,2	236,6	205,6	193,6	
30EVR1300-FGS-T52C300-HBQE-W3	30	40	11	326,3		271,5	257	244,2	213,5	202,9	

Application range

* P1max = maximum suction pressure at full speed

Hydraulic performance 50 Hz

EVR 45

Pump model	Rated power		P ₁ ^{max} Bar	Q = Delivery									
				l/min 0	417	566,7	666,7	700	800	900	1.000	1,066,7	1.166,7
				m³/h 0	25	34	40	42	48	54	60	64	70
	US gpm 0	109,9		149,5	175,9	184,7	211	237,4	263,8	281,4	307,8		
	[kW]	[HP]		H = Total meters head of water column [m]									
45EVR011A-FGS-T52B030-HBQE-L3	3	4	7	19,6		16	14,6	14	12,1	9,7	7	4,9	
45EVR0100-FGS-T52C040-HBQE-L3	4	5,5	7	25,1		20,4	19	18,5	16,8	14,8	12,5	10,4	
45EVR022A-FGS-T52C055-HBQE-L3	5,5	7,5	14	38,4		33,9	31,5	30,5	27,4	23,7	19,3	16	
45EVR0200-FGS-T52C075-HBQE-L3	7,5	10	14	49		42	39,8	38,8	35,5	31,8	27,5	24,1	
45EVR032A-FGS-T52C110-HBQE-L3	11	15	20	63		55,9	52,7	51,4	46,8	41,5	35,1	30,3	
45EVR0300-FGS-T52C110-HBQE-L3	11	15	20	74,2		65	62,1	60,9	56,5	51,3	45,5	41	
45EVR042A-FGS-T52C150-HBQE-L3	15	20	20	87,5		77,4	73,3	71,6	65,5	58,4	50,1	43,8	
45EVR0400-FGS-T52C150-HBQE-L3	15	20	20	97,5		86,4	82,8	81,3	75,4	68,5	60,8	54,7	
45EVR052A-FGS-T52C185-HBQE-L3	18,5	25	20	112,1		99,9	95	92,9	85,5	76,7	66,6	58,8	
45EVR0500-FGS-T52C185-HBQE-L3	18,5	25	20	122,3		109,1	104,7	102,9	95,6	87,1	77,5	70	
45EVR062A-FGS-T52C220-HBQE-L3	22	30	20	136		120,7	114,9	112,4	103,4	92,9	80,8	71,5	
45EVR0600-FGS-T52C220-HBQE-L3	22	30	20	146		129,8	124,5	122,2	113,3	103	91,6	82,5	
45EVR072A-FGS-T52C300-HBQE-W3	30	40	20	162,6		146,4	140,1	137,3	127,2	115,2	101,3	90,8	
45EVR0700-FGS-T52C300-HBQE-W3	30	40	20	173		155,9	150,1	147,7	137,7	126	112,7	102,5	
45EVR082A-FGS-T52C300-HBQE-W3	30	40	20	187,2		168,3	161,1	158	146,4	132,7	116,8	104,8	
45EVR0800-FGS-T52C300-HBQE-W3	30	40	20	197,5		177,7	171,1	168,2	156,8	143,4	128,2	116,5	
45EVR092A-FGS-T52C370-HBQE-W3	37	50	20	211,7		190,2	182,2	178,7	165,7	150,3	132,6	119,1	
45EVR0900-FGS-T52C370-HBQE-W3	37	50	18	222		199,7	192,2	188,9	176,1	161	143,9	130,7	
45EVR102A-FGS-T52C370-HBQE-W3	37	50	18	236,1		211,9	203	199,1	184,6	167,5	147,9	132,9	
45EVR1000-FGS-T52C370-HBQE-W3	37	50	17	246,4		221,3	212,9	209,3	195	178,1	159,1	144,4	
45EVR112A-FGS-T52C450-HBQE-W3	45	60	17	261,5		235,3	225,7	221,5	205,7	187	165,5	149,1	
45EVR1100-FGS-T52C450-HBQE-W3	45	60	15	271,8		244,8	235,7	231,8	216,2	197,7	176,9	160,9	
45EVR122A-FGS-T52C450-HBQE-W3	45	60	15	286		257,2	246,7	242,1	224,8	204,5	181	163,2	
45EVR1200-FGS-T52C450-HBQE-W3	45	60	14	296,3		266,6	256,7	252,4	235,3	215,2	192,4	174,9	
45EVR132A-FGS-T52C450-HBQE-W3	45	60	14	310,4		278,9	267,6	262,7	243,9	221,8	196,5	177,2	

Application range

* P1max = maximum suction pressure at full speed

Hydraulic performance 50 Hz

EVR 65

Pump model	Rated power		P _{lmax} Bar *	Q = Delivery										
				l/min 0	417	500	666,7	750	833,3	1.000	1.166,7	1.333,3	1.466,7	1.666,7
				m³/h 0	25	30	40	45	50	60	70	80	88	100
	US gpm 0	109,9		131,9	175,9	197,9	219,8	263,8	307,8	351,7	386,9	439,7		
	[kW]	[HP]	H = Total meters head of water column [m]											
65EVR011A-FGS-T52C040-HBQE-L3	4	5,5	3	21,3		18,2	17	16,3	15,5	13,3	10,3	6,8	3,7	
65EVR0100-FGS-T52C055-HBQE-L3	5,5	7,5	7	30,2		24,8	23	22,3	21,7	20,3	18,3	15,4	12,2	
65EVR022A-FGS-T52C075-HBQE-L3	7,5	10	7	38,9		37,2	35,8	34,8	33,8	30,5	25,8	20,3	14,6	
65EVR021A-FGS-T52C110-HBQE-L3	11	15	11	47,8		44,3	42,6	41,6	40,6	38	34,2	29,3	24	
65EVR0200-FGS-T52C110-HBQE-L3	11	15	15	59,3		51,2	48	46,8	45,5	43,2	39,9	35,3	30,8	
65EVR032A-FGS-T52C150-HBQE-L3	15	20	15	67,3		63	60,6	59,1	57,6	53,4	47,2	39,5	31,4	
65EVR031A-FGS-T52C150-HBQE-L3	15	20	19	75,5		69,2	66,3	64,8	63,2	59,5	54,1	46,9	38,7	
65EVR0300-FGS-T52C185-HBQE-L3	18,5	25	20	89,6		77,6	72,8	70,9	69	65,7	60,7	53,9	47,2	
65EVR042A-FGS-T52C185-HBQE-L3	18,5	25	20	95,5		88,6	85,1	83,2	81,1	76	68,3	58,5	47,9	
65EVR041A-FGS-T52C220-HBQE-L3	22	30	19	103,7		94,7	90,9	88,8	86,7	82,1	75,2	65,9	55,3	
65EVR0400-FGS-T52C220-HBQE-L3	22	30	18	111,8		100,8	96,7	94,5	92,4	88,4	82,3	73,3	62,9	
65EVR052A-FGS-T52C300-HBQE-W3	30	40	18	125,3		116,2	111,8	109,5	107	101,1	92,1	80,4	68	
65EVR051A-FGS-T52C300-HBQE-W3	30	40	17	133,9		122,7	117,9	115,5	113	107,6	99,5	88,4	76,2	
65EVR0500-FGS-T52C300-HBQE-W3	30	40	16	142,4		129,2	124	121,5	119	114,1	106,9	96,3	84,6	
65EVR062A-FGS-T52C300-HBQE-W3	30	40	16	153,5		141,6	136,2	133,3	130,3	123,4	112,9	99	84,1	
65EVR061A-FGS-T52C370-HBQE-W3	37	50	15	162,1		148,2	142,4	139,4	136,4	130	120,4	107,1	92,5	
65EVR0600-FGS-T52C370-HBQE-W3	37	50	14	170,6		154,7	148,5	145,4	142,3	136,5	127,8	115	100,9	
65EVR072A-FGS-T52C370-HBQE-W3	37	50	14	181,7		167	160,6	157,2	153,6	145,7	133,7	117,7	100,3	
65EVR071A-FGS-T52C370-HBQE-W3	37	50	14	190,1		173,5	166,6	163,1	159,5	152,1	141	125,5	108,3	
65EVR0700-FGS-T52C450-HBQE-W3	45	60	13	199,5		181,1	173,8	170,3	166,7	160	149,9	135,1	118,9	
65EVR082A-FGS-T52C450-HBQE-W3	45	60	13	210,6		193,5	186	182,2	178,1	169,3	156	137,9	118,4	
65EVR081A-FGS-T52C450-HBQE-W3	45	60	12	219,2		200	192,1	188,2	184,1	175,8	163,4	145,9	126,6	
65EVR0800-FGS-T52C450-HBQE-W3	45	60	11	227,7		206,5	198,2	194,1	190,1	182,3	170,7	153,8	135,1	

Application range

* P1max = maximum suction pressure at full speed

EVR 95

Pump model	Rated power		p _{1max} * Bar	Q = Delivery											
				l/min 0	666,7	750	833,3	1.000	1.166,7	1.333,3	1.466,7	1.666,7	1.833,3	1.916,7	2.000
				m³/h 0	40	45	50	60	70	80	88	100	110	115	120
	US gpm 0	175,9		197,9	219,8	263,8	307,8	351,7	386,9	439,7	483,6	505,6	528,4		
	[kW]	[HP]		H = Total meters head of water column [m]											
95EVR011A-FGS-T52C055-HBQE-L3	5,5	7,5	7	26,4		20,5	19,9	18,7	17,3	15,5	13,2	9,5	5,7	3,5	
95EVR0100-FGS-T52C075-HBQE-L3	7,5	10	13	35,6		27	25,6	23,2	21,9	20,4	18,8	15,7	12,4	10,5	
95EVR022A-FGS-T52C110-HBQE-L3	11	15	15	49,6		42,4	41,3	39	36,6	33,2	29,4	22,7	15,7	11,7	
95EVR0200-FGS-T52C150-HBQE-L3	15	20	20	69,2		56,6	54,5	50,5	47,3	44,3	41,6	36,3	30,5	27,3	
95EVR032A-FGS-T52C185-HBQE-L3	18,5	25	20	80,4		70,8	69,1	65,6	62,2	57,7	53	44,3	34,9	30,4	
95EVR0300-FGS-T52C220-HBQE-L3	22	30	20	92,4		82,6	80,6	76,7	73,2	69,4	65,5	57,8	49,7	45,2	
95EVR042A-FGS-T52C300-HBQE-W3	30	40	19	113,1		100,6	98,2	93,5	89	83,5	77,5	66,5	54,6	48,5	
95EVR0400-FGS-T52C300-HBQE-W3	30	40	17	125,6		113	110,4	105,2	100,6	95,7	90,7	80,8	70,2	64,4	
95EVR052A-FGS-T52C370-HBQE-W3	37	50	17	144,1		128,4	125,4	119,3	113,7	106,9	99,7	86,1	71,6	64,1	
95EVR0500-FGS-T52C370-HBQE-W3	37	50	16	156,6		140,7	137,4	130,9	125,2	119,1	112,8	100,3	87,1	79,8	
95EVR062A-FGS-T52C450-HBQE-W3	45	60	16	175,9		157	153,4	146,1	139,3	131,4	122,9	107	89,8	80,8	
95EVR0600-FGS-T52C450-HBQE-W3	45	60	14	188,4		169,5	165,6	157,8	150,9	143,6	136,2	121,3	105,5	96,7	

Application range

* P1max = maximum suction pressure at full speed

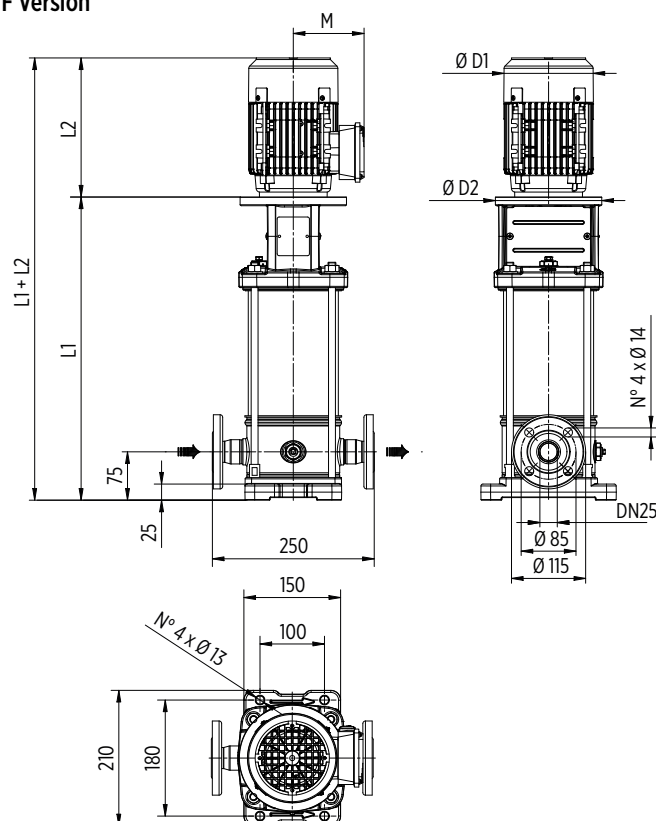
EVR 1 - 50 Hz

TECHNICAL DATA

Pump model	Motor		Dimensions [mm]											Weight [kg]			
			L1	L2		L3	L4	L3	M		D1		D2	L1+L2	Pump	Motor	Elecric pump
	[kW]	Dim.	F	1-	3-	T	V	C	1-	3-	1-	3-					
1EVR0200-FIS-T52B003-BQE-L2	0,37	71	322	216	216	297	297	297	134	110	139	139	170	538	12,5	5,8	18,3
1EVR0300-FIS-T52B003-BQE-L2	0,37	71	345	216	216	320	320	320	134	110	139	139	170	561	13	5,8	18,8
1EVR0400-FIS-T52B003-BQE-L2	0,37	71	367	216	216	342	342	342	134	110	139	139	170	583	13,5	5,8	19,3
1EVR0500-FIS-T52B003-BQE-L2	0,37	71	390	216	216	365	365	365	134	110	139	139	170	606	14	5,8	19,8
1EVR0600-FIS-T52B003-BQE-L2	0,37	71	412	216	216	387	387	387	134	110	139	139	170	628	14,5	5,8	20,3
1EVR0700-FIS-T52B003-BQE-L2	0,37	71	435	216	216	410	410	410	134	110	139	139	170	651	15	5,8	20,8
1EVR0800-FIS-T52B005-BQE-L2	0,55	71	457	216	216	432	432	432	134	110	139	139	170	673	15,5	6,2	21,7
1EVR0900-FIS-T52B005-BQE-L2	0,55	71	480	216	216	455	455	455	134	110	139	139	170	696	15,5	6,2	21,7
1EVR1000-FIS-T52B005-BQE-L2	0,55	71	502	216	216	477	477	477	134	110	139	139	170	718	16	6,2	22,2
1EVR1100-FIS-T52B005-BQE-L2	0,55	71	525	216	216	500	500	500	134	110	139	139	170	741	16,5	6,2	22,7
1EVR1200-FIS-T52B007-BQE-L3	0,75	80	547	232	232	522	522	522	150	129	160	160	170	779	17	9,5	26,5
1EVR1300-FIS-T52B007-BQE-L3	0,75	80	570	232	232	545	545	545	150	129	160	160	170	802	17,5	9,5	27
1EVR1400-FIS-T52B007-BQE-L3	0,75	80	592	232	232	567	567	567	150	129	160	160	170	824	18	9,5	27,5
1EVR1500-FIS-T52B007-BQE-L3	0,75	80	615	232	232	590	590	590	150	129	160	160	170	847	18,5	9,5	28
1EVR1700-FIS-T52B011-BQE-L3	1,1	80	660	232	232	635	635	635	150	129	160	160	170	892	19,5	11,1	30,6
1EVR1900-FIS-T52B011-BQE-L3	1,1	80	705	232	232	680	680	680	150	129	160	160	170	937	20,5	11,1	31,6
1EVR2200-FIS-T52B011-BQE-L3	1,1	80	772	232	232	747	747	747	150	129	160	160	170	1004	22	11,1	33,1
1EVR2300-FIS-T52B015-BQE-L3	1,5	90	795	267	267	770	770	770	160	138	180	180	170	1062	22	14	36
1EVR2500-FIS-T52B015-BQE-L3	1,5	90	840	267	267	-	815	815	160	138	180	180	170	1107	23	14	37
1EVR2700-FIS-T52B015-BQE-L3	1,5	90	885	267	267	-	860	860	160	138	180	180	170	1152	24	14	38
1EVR3000-FIS-T52B015-BQE-L3	1,5	90	952	267	267	-	927	927	160	138	180	180	170	1219	25,5	14	39,5
1EVR3200-FIS-T52B030-BQE-L3	3	100	997	-	306	-	972	972	-	145	-	196	170	1303	26	22,8	48,8
1EVR3400-FIS-T52B030-BQE-L3	3	100	1042	-	306	-	1017	1017	-	145	-	196	170	1348	27	22,8	49,8
1EVR3700-FIS-T52B030-BQE-L3	3	100	1110	-	306	-	1085	1085	-	145	-	196	170	1416	28,5	22,8	51,3

DIMENSIONAL DRAWINGS

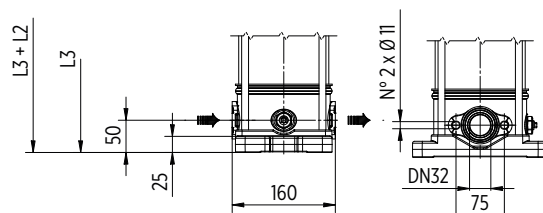
F Version



Round flanges on body type PN25/40: the pump is supplied without counterflanges (Optional accessories, including bolts and joints)

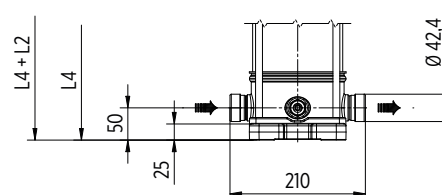
T Version

available from 1EVR02 to 1EVR23



Oval flanges on body type PN16: the pump is supplied without threaded oval counter flanges (Optional accessories, including bolts and joints)

V Version

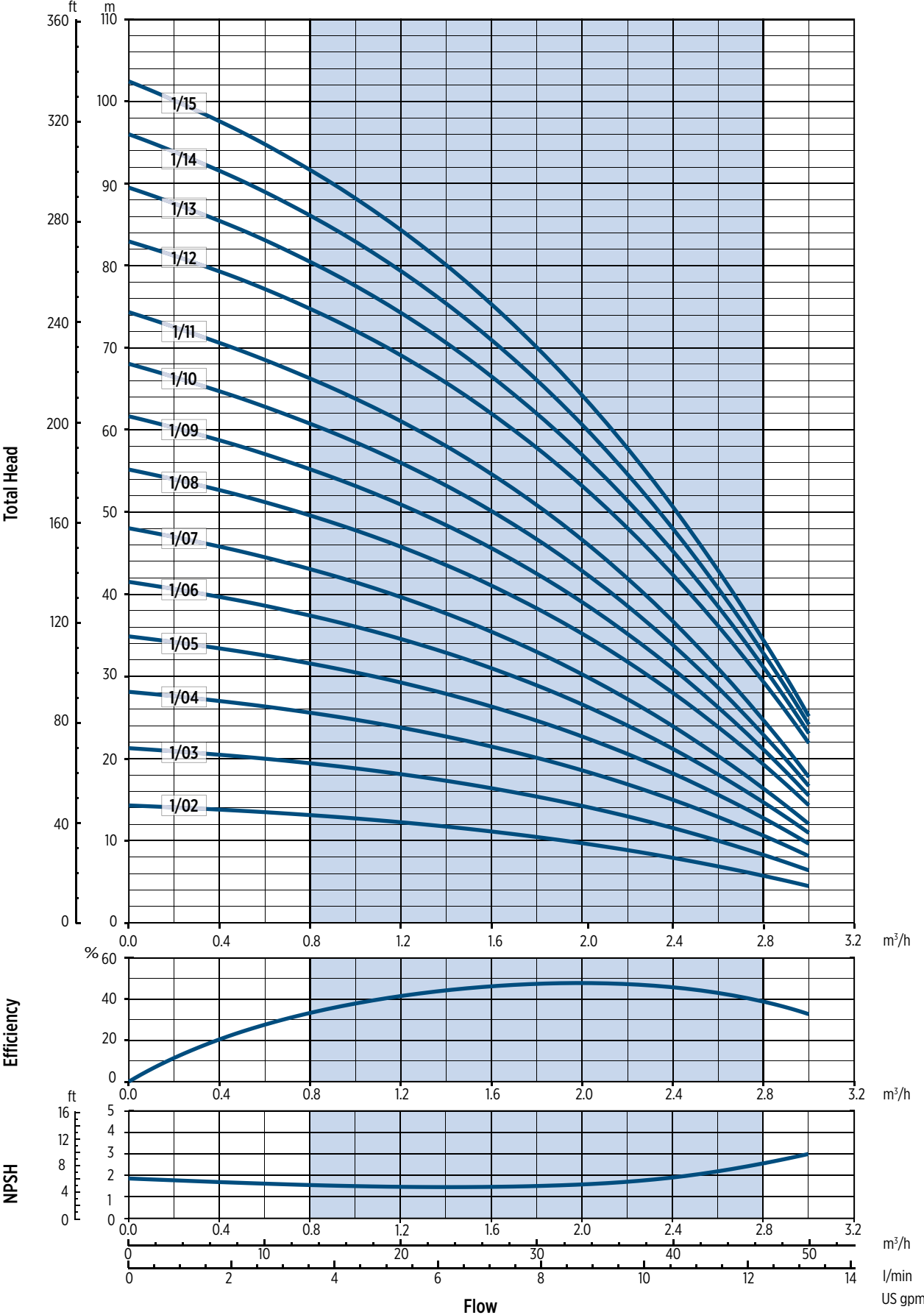


Connections with rapid fittings type "Victaulic": the pump is supplied without the collars (Optional accessories)

00130099 09/2023

EVR 1 - Performance curves at 50 Hz

MEI ≥ 0,70



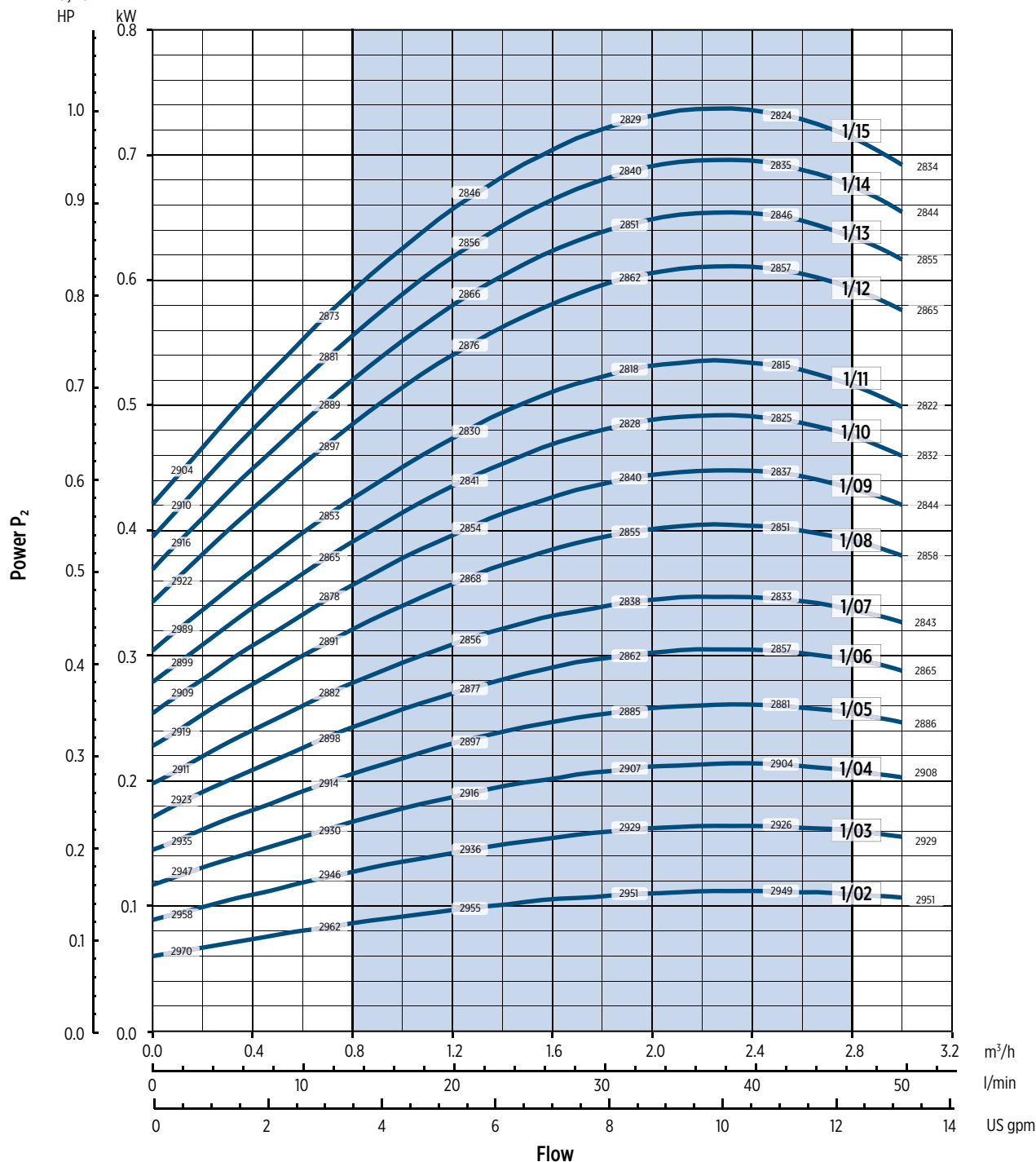
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002014A-02/2021



EVR 1 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002014A 02/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

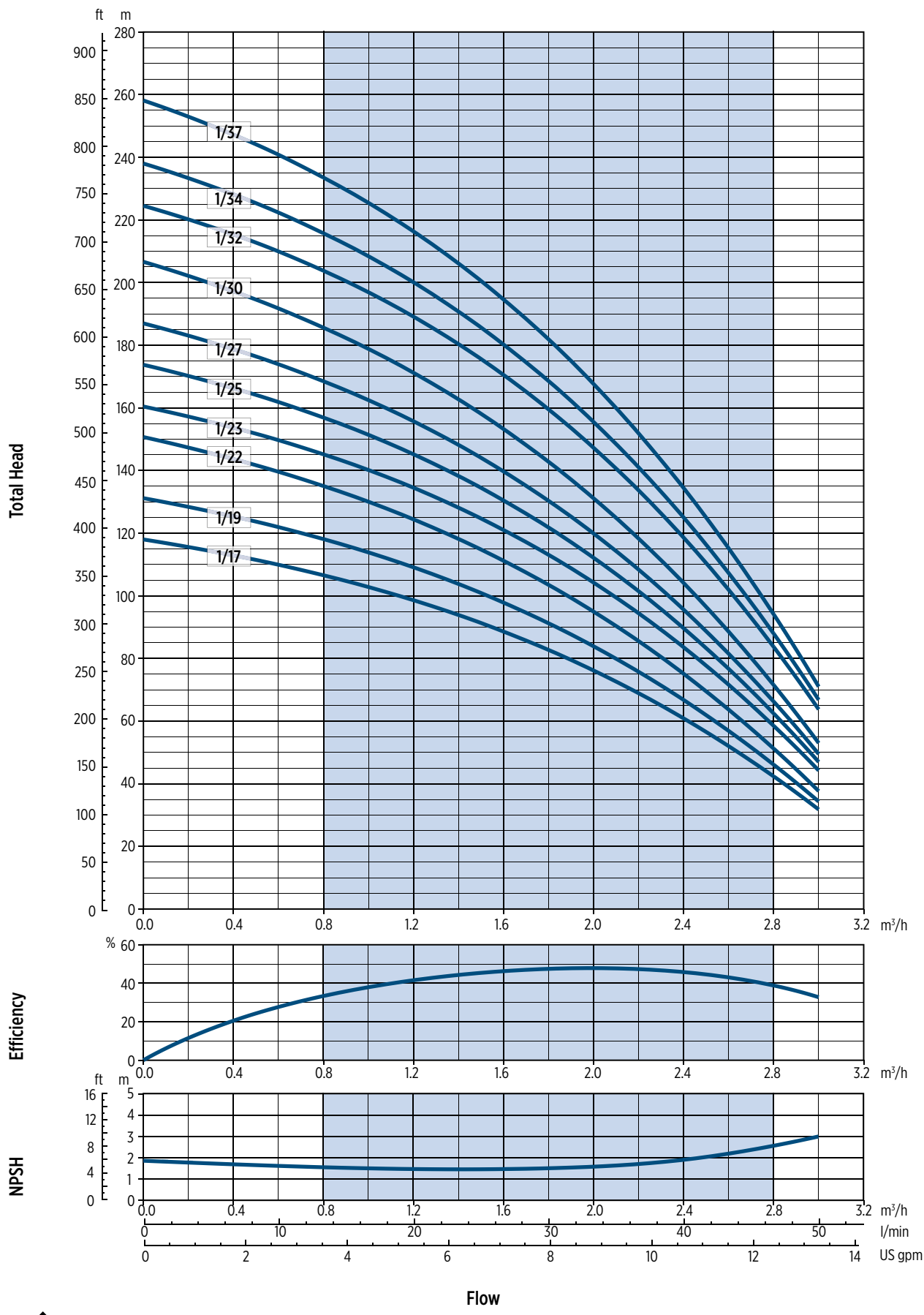
The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

EVR 1 - Performance curves at 50 Hz

MEI ≥ 0,70



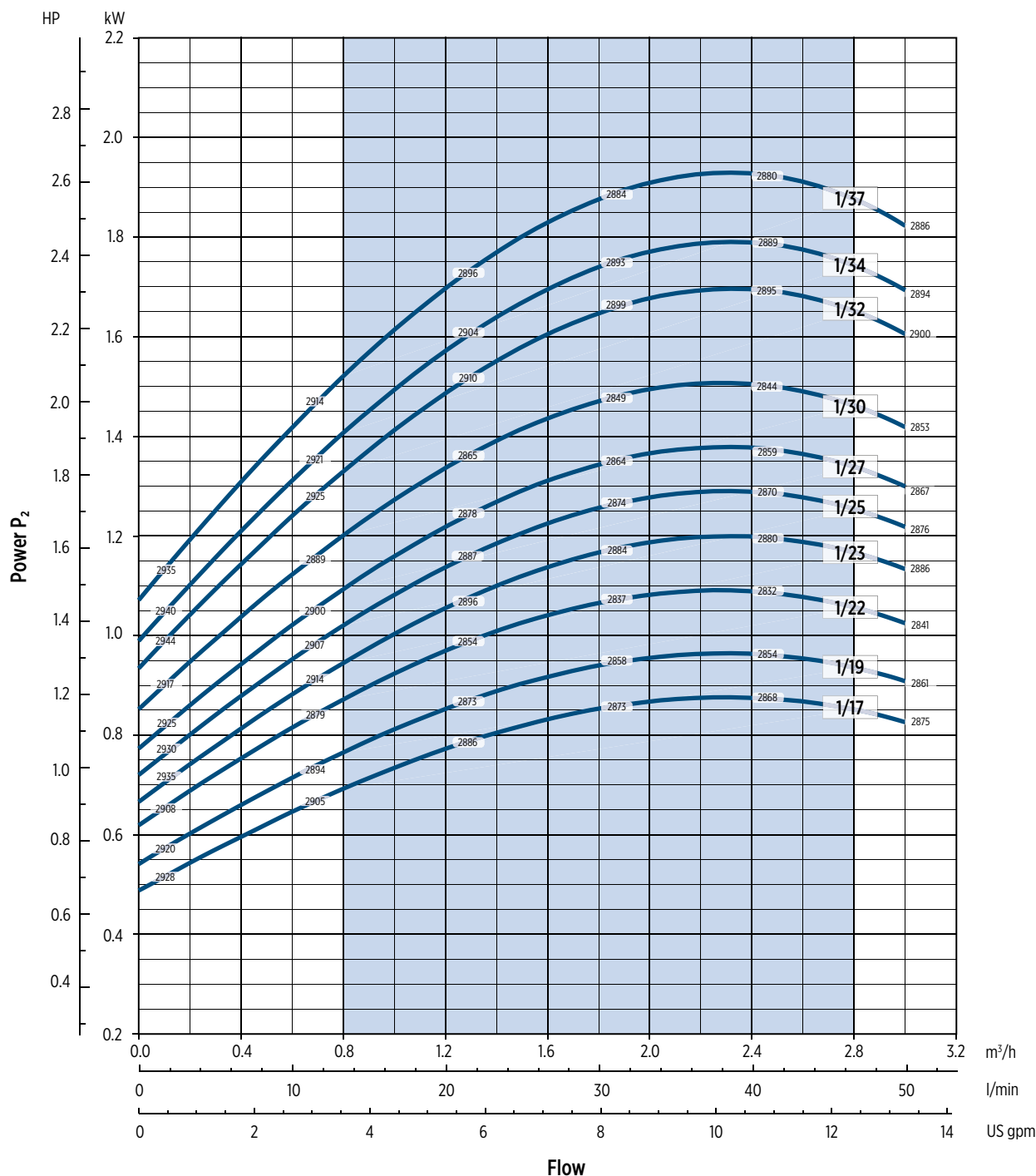
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

001201148 03/2021



EVR 1 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120148 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency



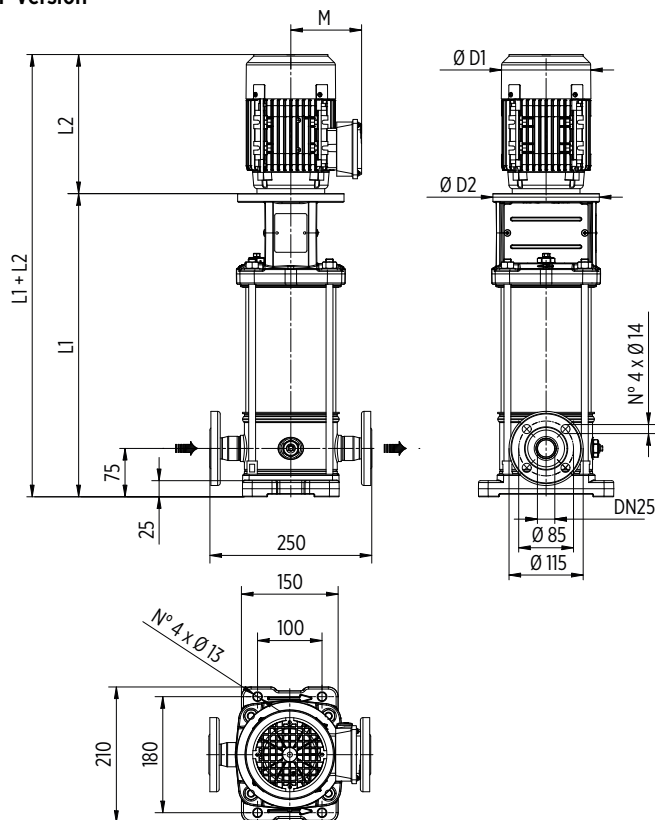
EVR 3 - 50 Hz

TECHNICAL DATA

Pump model	Motor		Dimensions [mm]											Weight [kg]				
	[kW]	Dim.	L1		L2		L3	L4	L3	M		D1		D2	L1+L2	Pump	Motor	Electric pump
			F	1-	3-	T	V	C	1-	3-	1-	3-						
3EVR0200-FIS-T52B003-BQE-L2	0,37	71	322	216	216	297	297	297	134	110	139	139	170	538	12,5	5,8	18,3	
3EVR0300-FIS-T52B003-BQE-L2	0,37	71	345	216	216	320	320	320	134	110	139	139	170	561	13	5,8	18,8	
3EVR0400-FIS-T52B003-BQE-L2	0,37	71	367	216	216	342	342	342	134	110	139	139	170	583	13,5	5,8	19,3	
3EVR0500-FIS-T52B005-BQE-L2	0,55	71	390	216	216	365	365	365	134	110	139	139	170	606	14	6,2	20,2	
3EVR0600-FIS-T52B005-BQE-L2	0,55	71	412	216	216	387	387	387	134	110	139	139	170	628	14,5	6,2	20,7	
3EVR0700-FIS-T52B007-BQE-L3	0,75	80	435	232	232	410	410	410	150	129	160	160	170	667	15	9,5	24,5	
3EVR0800-FIS-T52B007-BQE-L3	0,75	80	457	232	232	432	432	432	150	129	160	160	170	689	15,5	9,5	25	
3EVR0900-FIS-T52B007-BQE-L3	0,75	80	480	232	232	455	455	455	150	129	160	160	170	712	15,5	9,5	25	
3EVR1000-FIS-T52B011-BQE-L3	1,1	80	502	232	232	477	477	477	150	129	160	160	170	734	16	11,1	27,1	
3EVR1100-FIS-T52B011-BQE-L3	1,1	80	525	232	232	500	500	500	150	129	160	160	170	757	16,5	11,1	27,6	
3EVR1200-FIS-T52B011-BQE-L3	1,1	80	547	232	232	522	522	522	150	129	160	160	170	779	17	11,1	28,1	
3EVR1300-FIS-T52B011-BQE-L3	1,1	80	570	232	232	545	545	545	150	129	160	160	170	802	17,5	11,1	28,6	
3EVR1400-FIS-T52B015-BQE-L3	1,5	90	592	267	267	567	567	567	160	138	180	180	170	859	18	14	32	
3EVR1500-FIS-T52B015-BQE-L3	1,5	90	615	267	267	590	590	590	160	138	180	180	170	882	18,5	14	32,5	
3EVR1600-FIS-T52B015-BQE-L3	1,5	90	637	267	267	612	612	612	160	138	180	180	170	904	19	14	33	
3EVR1700-FIS-T52B015-BQE-L3	1,5	90	660	267	267	635	635	635	160	138	180	180	170	927	19,5	14	33,5	
3EVR1800-FIS-T52B022-BQE-L3	2,2	90	682	267	267	657	657	657	160	138	180	180	170	949	20	16	36	
3EVR1900-FIS-T52B022-BQE-L3	2,2	90	705	267	267	680	680	680	160	138	180	180	170	972	20,5	16	36,5	
3EVR2100-FIS-T52B022-BQE-L3	2,2	90	750	267	267	725	725	725	160	138	180	180	170	1017	21,5	16	37,5	
3EVR2300-FIS-T52B022-BQE-L3	2,2	90	795	267	267	-	770	770	160	138	180	180	170	1062	22,5	16	38,5	
3EVR2500-FIS-T52B022-BQE-L3	2,2	90	840	267	267	-	815	815	160	138	180	180	170	1107	23	16	39	
3EVR2700-FIS-T52B030-BQE-L3	3	100	885	-	306	-	860	860	-	145	-	196	170	1191	24	22,8	46,8	
3EVR2900-FIS-T52B030-BQE-L3	3	100	930	-	306	-	905	905	-	145	-	196	170	1236	25	22,8	47,8	
3EVR3100-FIS-T52B030-BQE-L3	3	100	975	-	306	-	950	950	-	145	-	196	170	1281	26	22,8	48,8	
3EVR3300-FIS-T52B030-BQE-L3	3	100	1020	-	306	-	995	995	-	145	-	196	170	1326	27	22,8	49,8	

DIMENSIONAL DRAWINGS

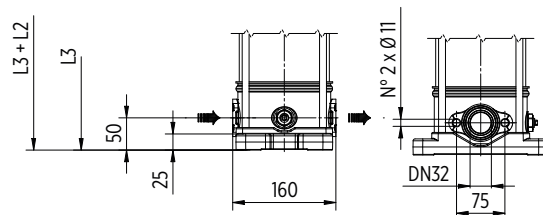
F Version



Round flanges on body type PN25/40: the pump is supplied without counterflanges (Optional accessories, including bolts and joints)

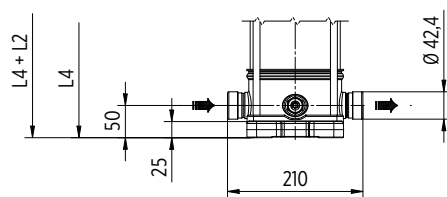
T Version

available from 3EVR02 to 3EVR21



Oval flanges on body type PN16: the pump is supplied without threaded oval counter flanges (Optional accessories, including bolts and joints)

V Version

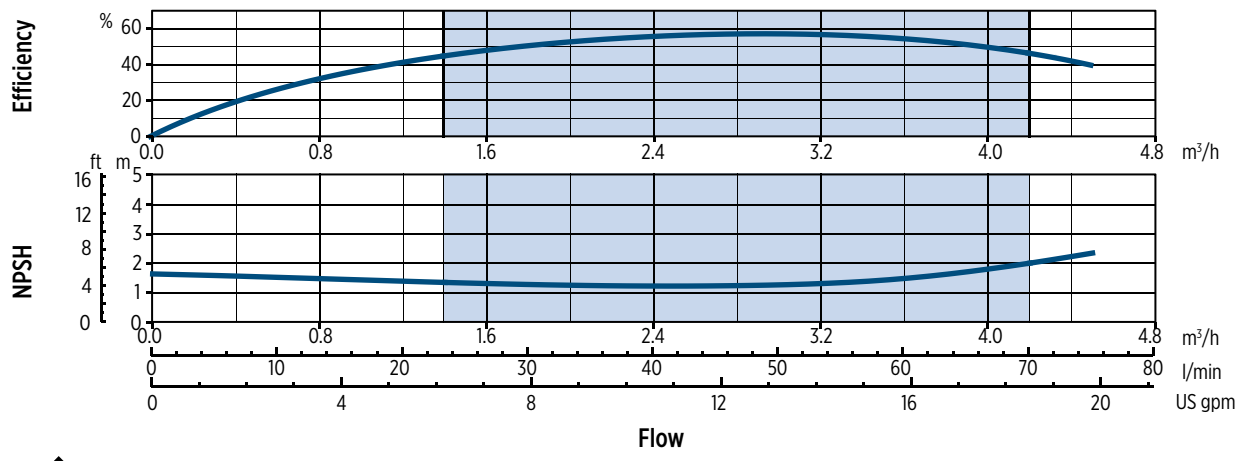
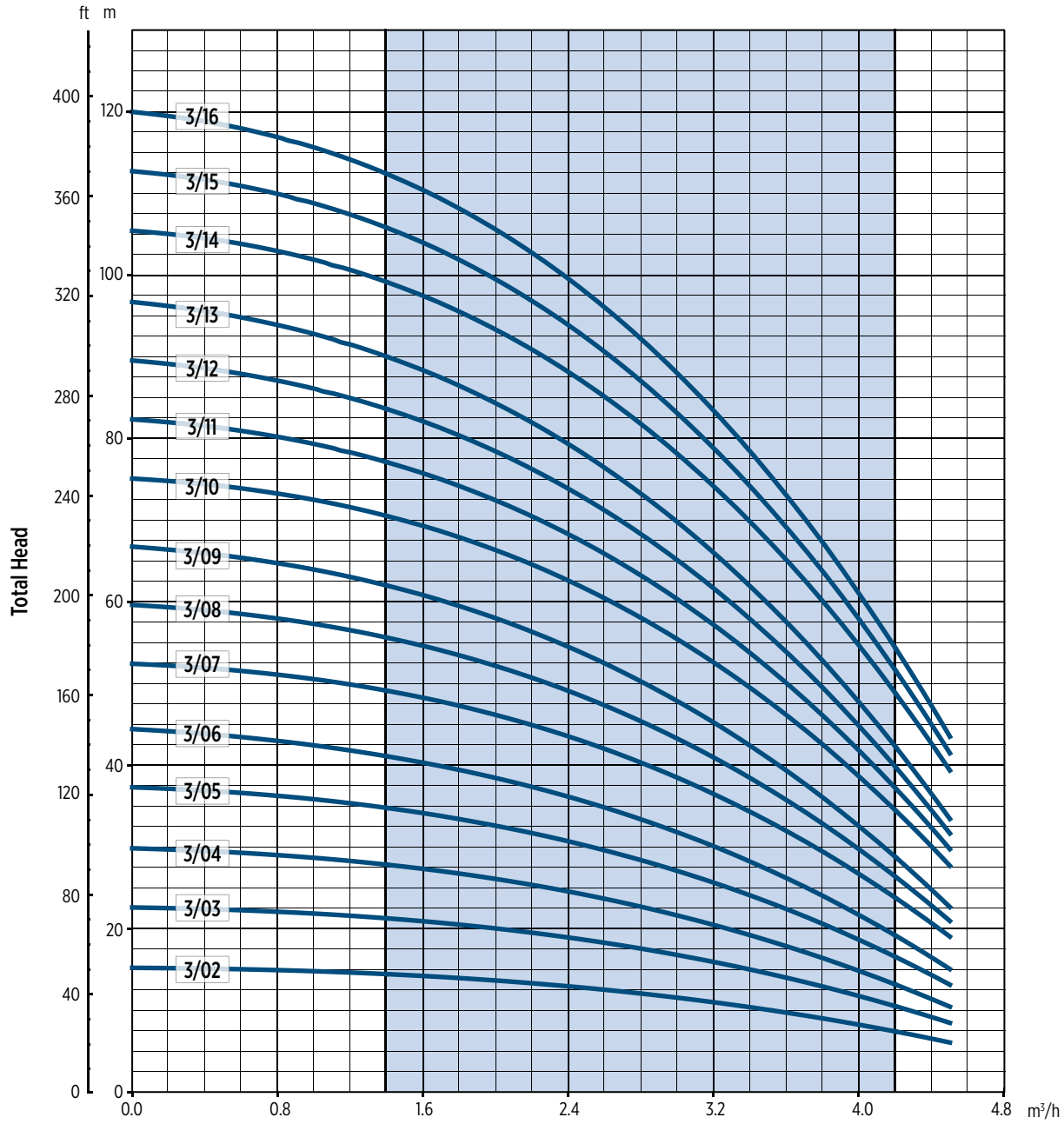


Connections with rapid fittings type "Victaulic": the pump is supplied without the collars (Optional accessories)

003099 09/2023

EVR 3 - Performance curves at 50 Hz

MEI ≥ 0,70



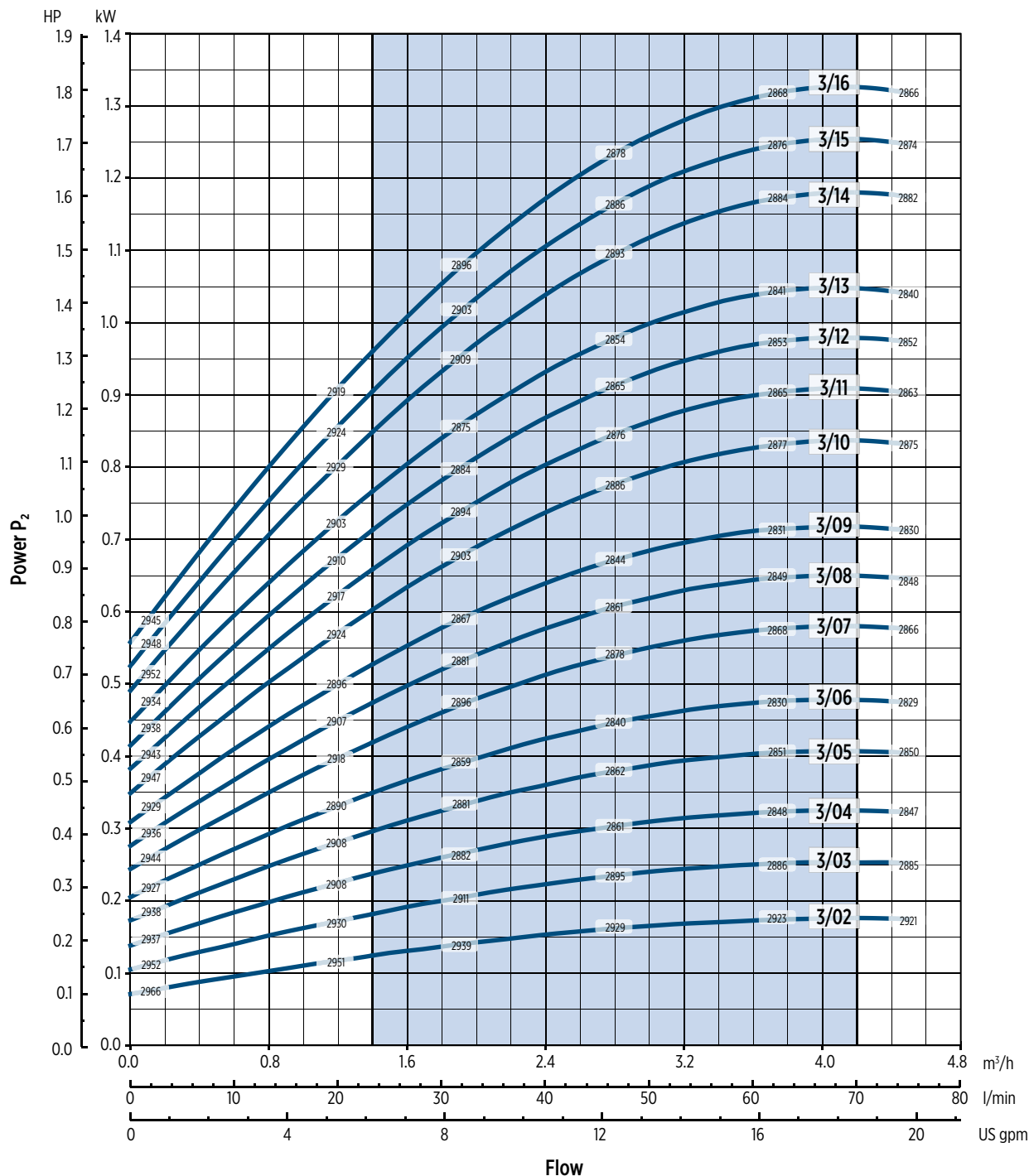
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00201514 03/2021



EVR 3 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012015AEN 02/2018

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

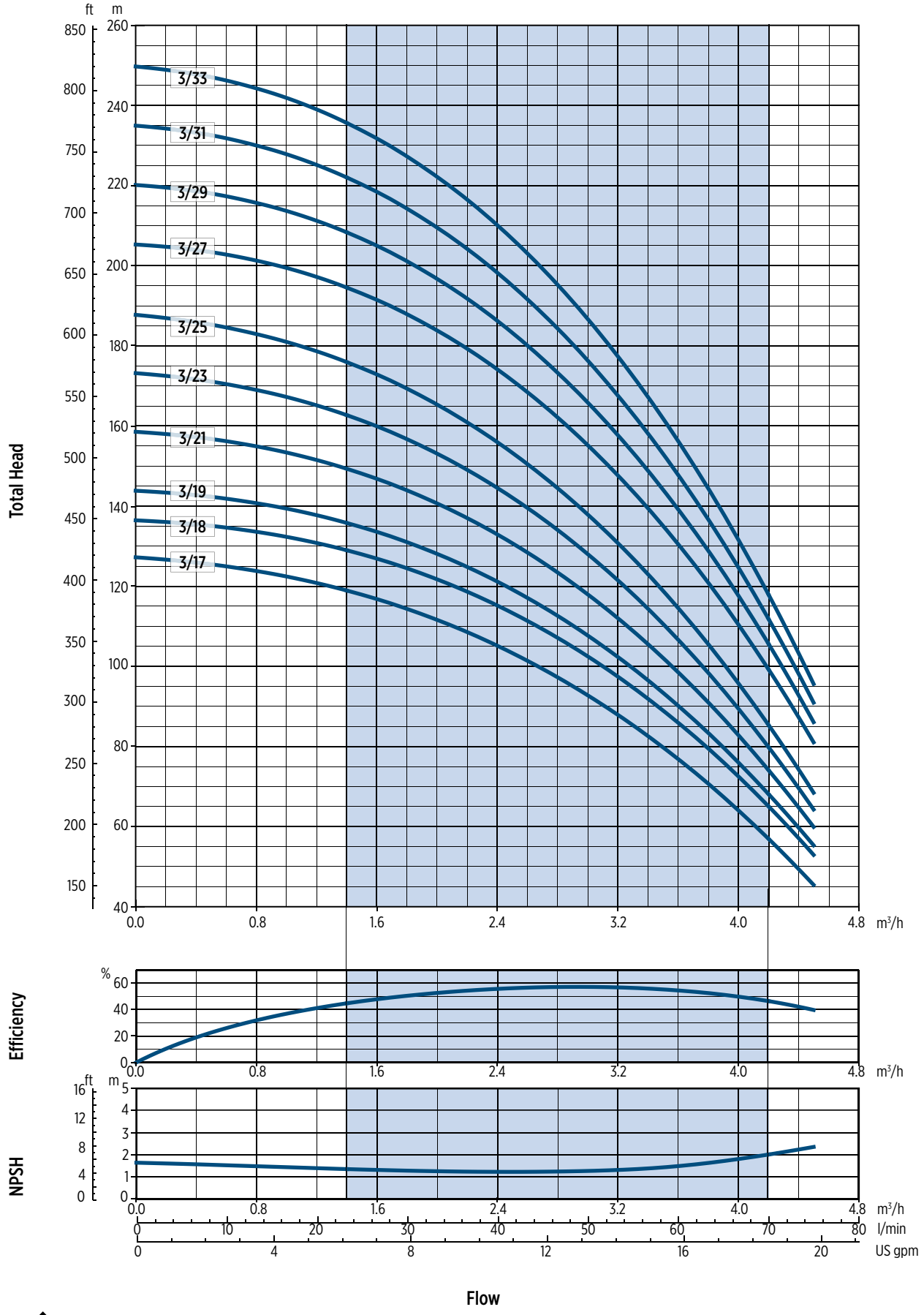
The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

EVR 3 - Performance curves at 50 Hz

MEI ≥ 0,70



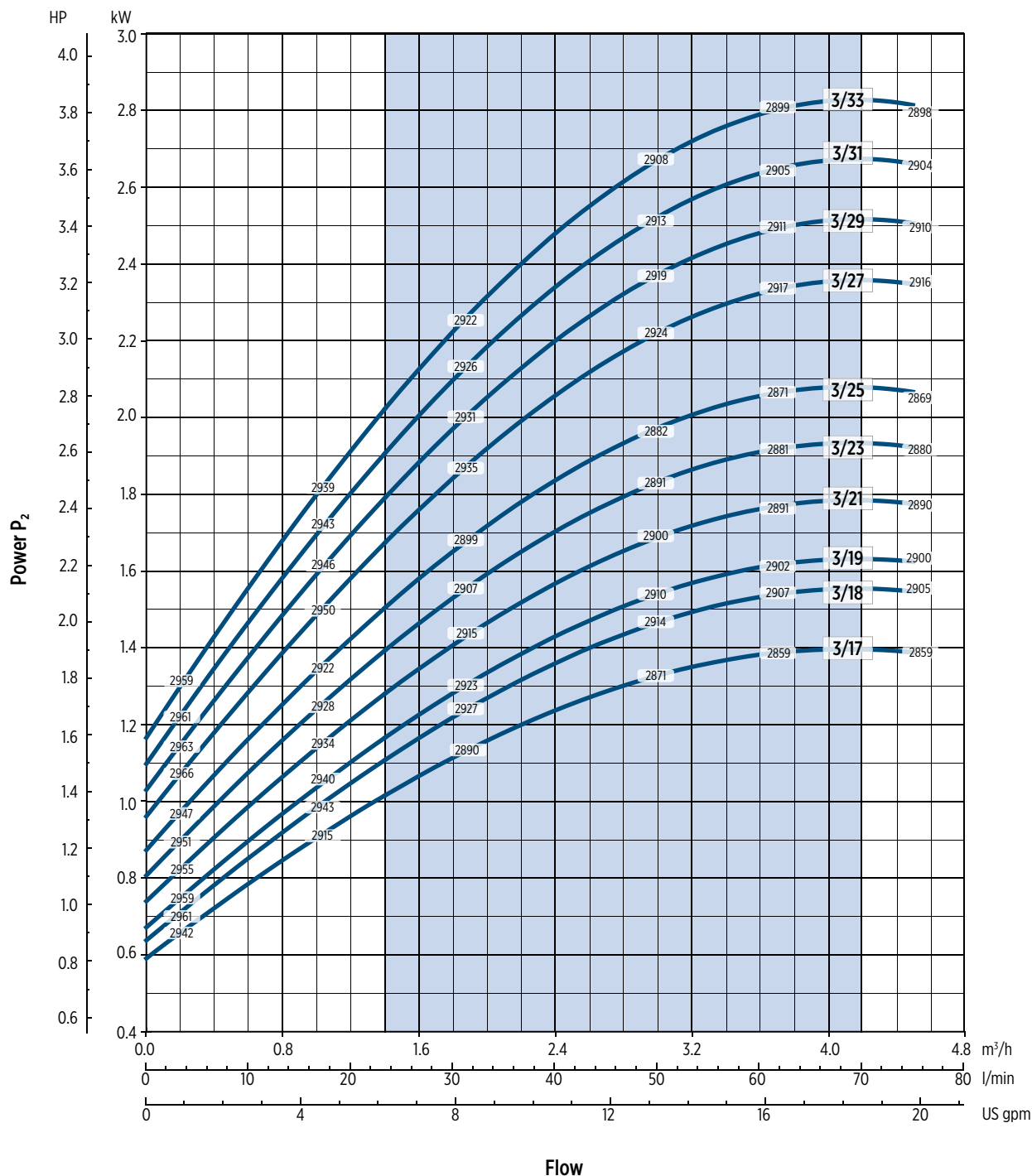
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002015B 03/2021



EVR 3 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

001201518 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency



EVR 6 - 50 Hz

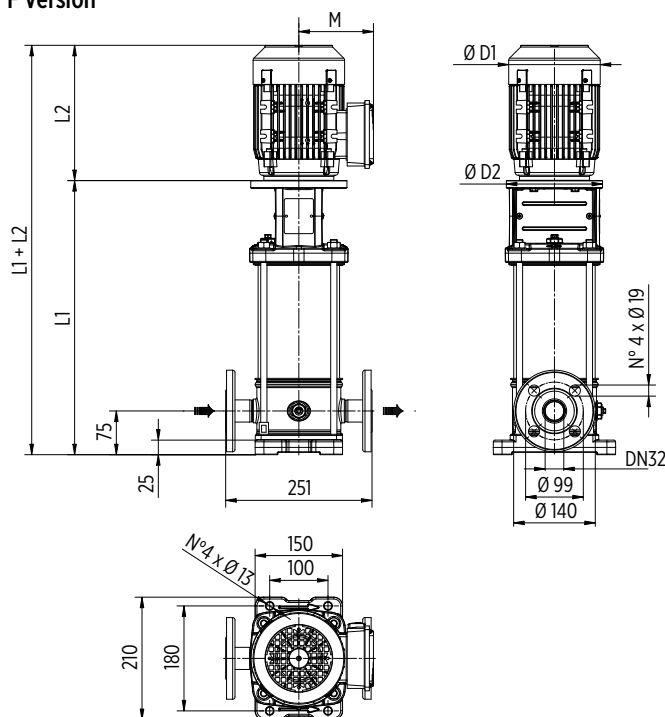
TECHNICAL DATA

Pump model	Motor		Dimensions [mm]												Weight [kg]		
			L1		L2		L3	L4	L3	M		D1		D2	L1+L2	Pump	Motor
	[kW]	Dim.	F	1-	3-	T	V	C	1-	3-	1-	3-					
6EVR0200-FIS-T52B003-BQE-L2	0,37	71	329	216	216	304	304	304	134	110	139	139	170	545	13	5,8	18,8
6EVR0300-FIS-T52B003-BQE-L2	0,37	71	355	216	216	330	330	330	134	110	139	139	170	571	13,5	5,8	19,3
6EVR0400-FIS-T52B005-BQE-L2	0,55	71	381	216	216	356	356	356	134	110	139	139	170	597	14	6,2	20,2
6EVR0500-FIS-T52B007-BQE-L3	0,75	80	407	232	232	382	382	382	150	129	160	160	170	639	14,5	9,5	24
6EVR0600-FIS-T52B007-BQE-L3	0,75	80	433	232	232	408	408	408	150	129	160	160	170	665	15	9,5	24,5
6EVR0700-FIS-T52B011-BQE-L3	1,1	80	459	232	232	434	434	434	150	129	160	160	170	691	15,5	11,1	26,6
6EVR0800-FIS-T52B011-BQE-L3	1,1	80	485	232	232	460	460	460	150	129	160	160	170	717	16	11,1	27,1
6EVR0900-FIS-T52B011-BQE-L3	1,1	80	511	232	232	486	486	486	150	129	160	160	170	743	16,5	11,1	27,6
6EVR1000-FIS-T52B015-BQE-L3	1,5	90	537	267	267	512	512	512	160	138	180	180	170	804	17	14	31
6EVR1100-FIS-T52B015-BQE-L3	1,5	90	563	267	267	538	538	538	160	138	180	180	170	830	17,5	14	31,5
6EVR1200-FIS-T52B015-BQE-L3	1,5	90	589	267	267	564	564	564	160	138	180	180	170	856	18	14	32
6EVR1300-FIS-T52B015-BQE-L3	1,5	90	615	267	267	590	590	590	160	138	180	180	170	882	18,5	14	32,5
6EVR1400-FIS-T52B022-BQE-L3	2,2	90	641	267	267	616	616	616	160	138	180	180	170	908	19	16	35
6EVR1500-FIS-T52B022-BQE-L3	2,2	90	667	267	267	642	642	642	160	138	180	180	170	934	19,5	16	35,5
6EVR1600-FIS-T52B022-BQE-L3	2,2	90	693	267	267	668	668	668	160	138	180	180	170	960	20	16	36
6EVR1700-FIS-T52B022-BQE-L3	2,2	90	719	267	267	694	694	694	160	138	180	180	170	986	20,5	16	36,5
6EVR1800-FIS-T52B022-BQE-L3	2,2	90	745	267	267	720	720	720	160	138	180	180	170	1012	21	16	37
6EVR1900-FIS-T52B030-BQE-L3	3	100	771	-	306	746	746	746	-	145	-	196	169	1077	21,5	22,8	44,3
6EVR2000-FIS-T52B030-BQE-L3	3	100	797	-	306	772	772	772	-	145	-	196	170	1103	22	22,8	44,8
6EVR2100-FIS-T52B030-BQE-L3	3	100	823	-	306	798	798	798	-	145	-	196	170	1129	22,5	22,8	45,3
6EVR2300-FIS-T52B030-BQE-L3	3	100	875	-	306	-	850	850	-	145	-	196	170	1181	23,5	22,8	46,3
6EVR2500-FIS-T52B030-BQE-L3	3	100	927	-	306	-	902	902	-	145	-	196	170	1233	24,5	22,8	47,3
6EVR2800-FIS-T52C040-BQE-L3	4	112	1005	-	306	-	980	980	-	145	-	196	170	1311	26	26,5	52,5
6EVR3000-FIS-T52C040-BQE-L3	4	112	1057	-	306	-	1032	1032	-	145	-	196	170	1363	27	26,5	53,5
6EVR3300-FIS-T52C040-BQE-L3	4	112	1135	-	306	-	1110	1110	-	145	-	196	170	1441	28,5	26,5	55
6EVR3600-VIS-T52C055-BQE-L3	5,5	132	1425	-	328	-	1400	1400	-	160	-	225	300	1753	50	33,6	83,6

*6EVR36 available only with connections type Victaulic (Victaulic Company is the owner of the Victaulic trademark. Not manufactured for or licensed by Victaulic Company)

DIMENSIONAL DRAWINGS

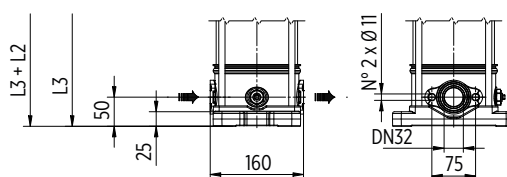
F Version



Round flanges on body type PN25/40: the pump is supplied without counterflanges (Optional accessories, including bolts and joints)

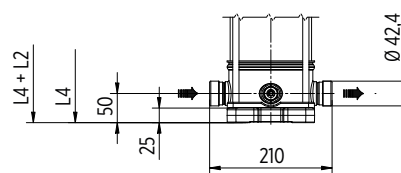
T Version

Available from 6EVR02 to 6EVR21



Oval flanges on body type PN16: the pump is supplied without threaded oval counter flanges (Optional accessories, including bolts and joints)

V Version

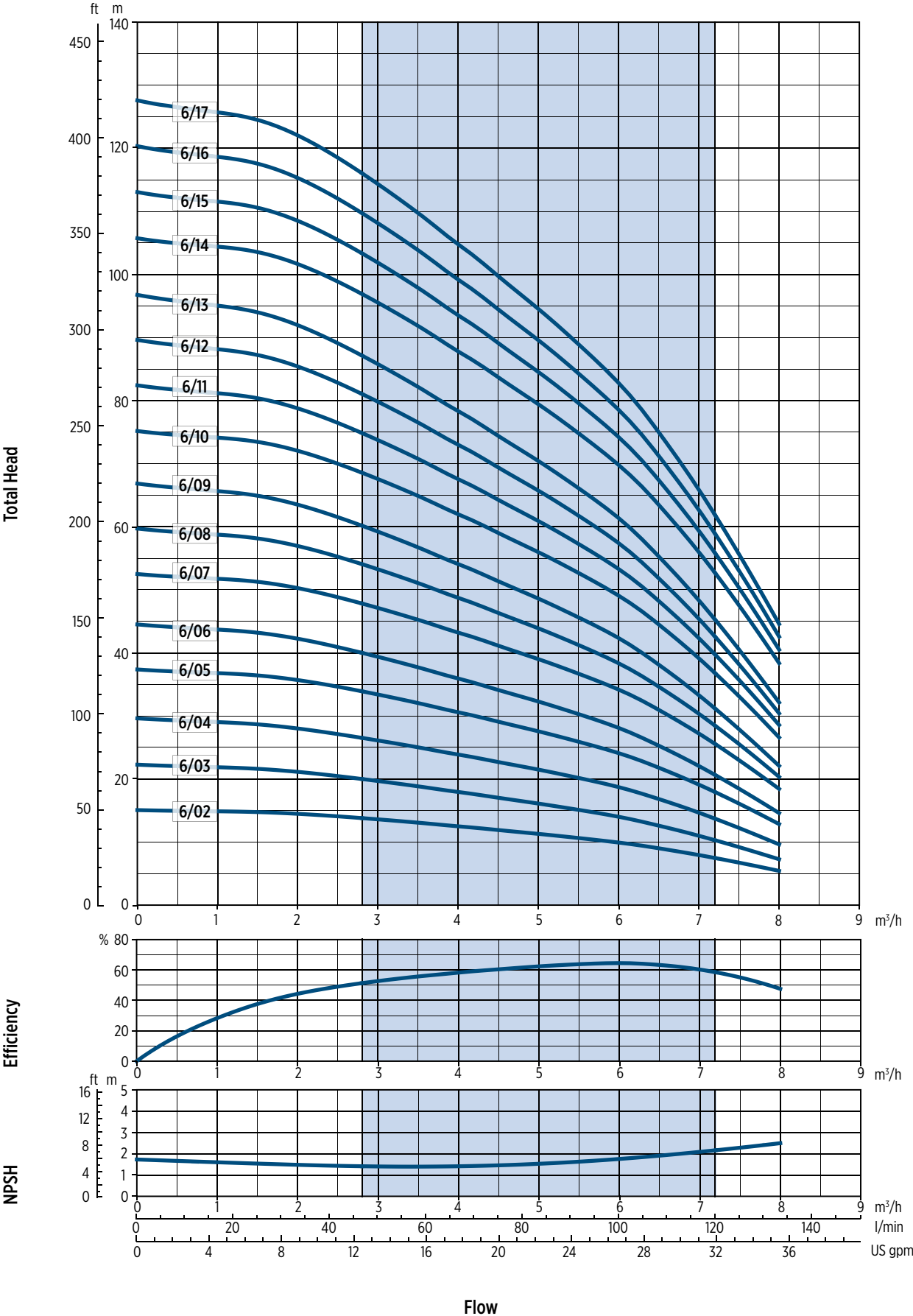


Connections with rapid fittings type "Victaulic": the pump is supplied without the collars (Optional accessories)

0050000 09/2023

EVR 6 - Performance curves at 50 Hz

MEI ≥ 0,70



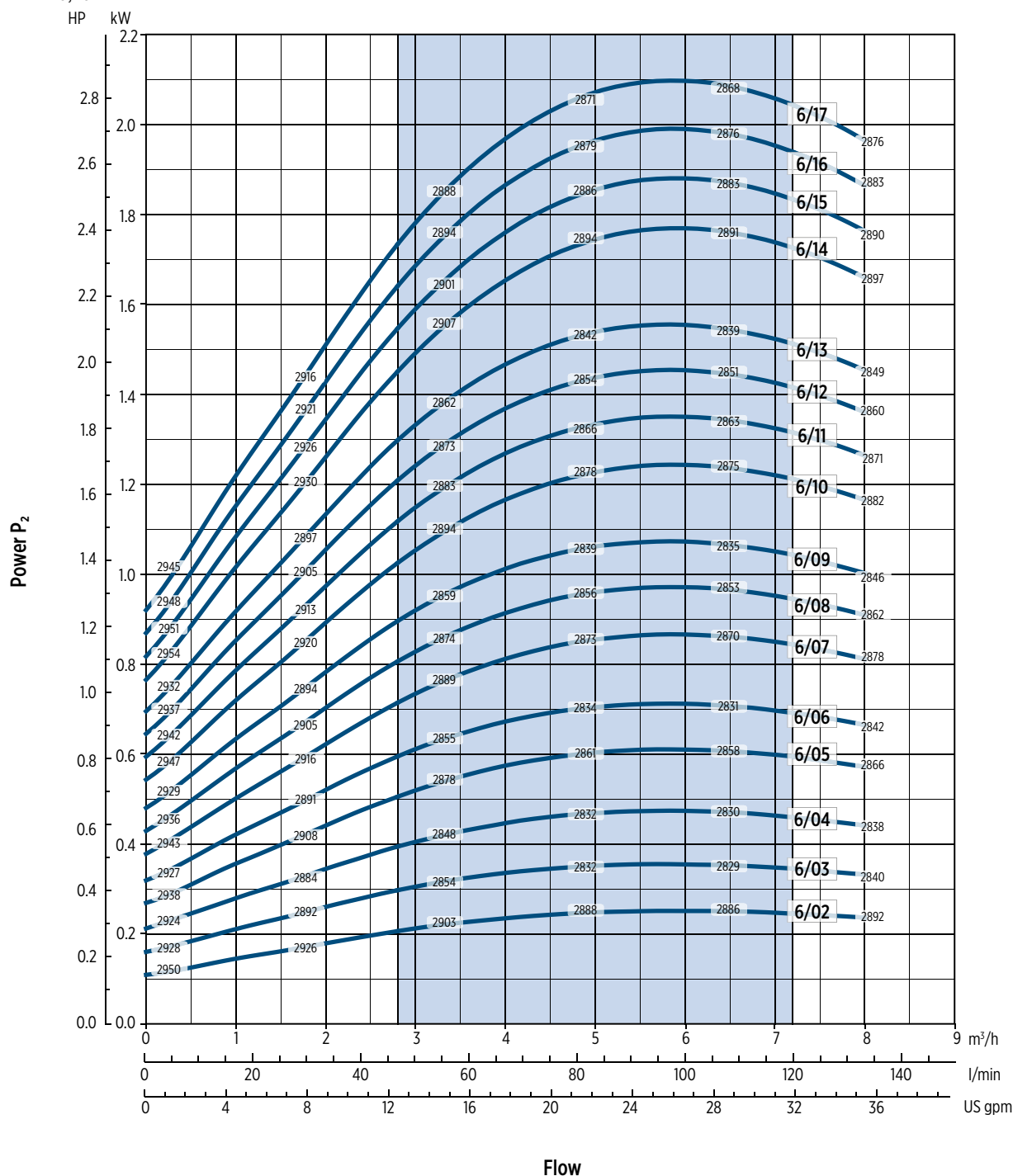
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120116A 03/2021



EVR 6 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002016A.03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

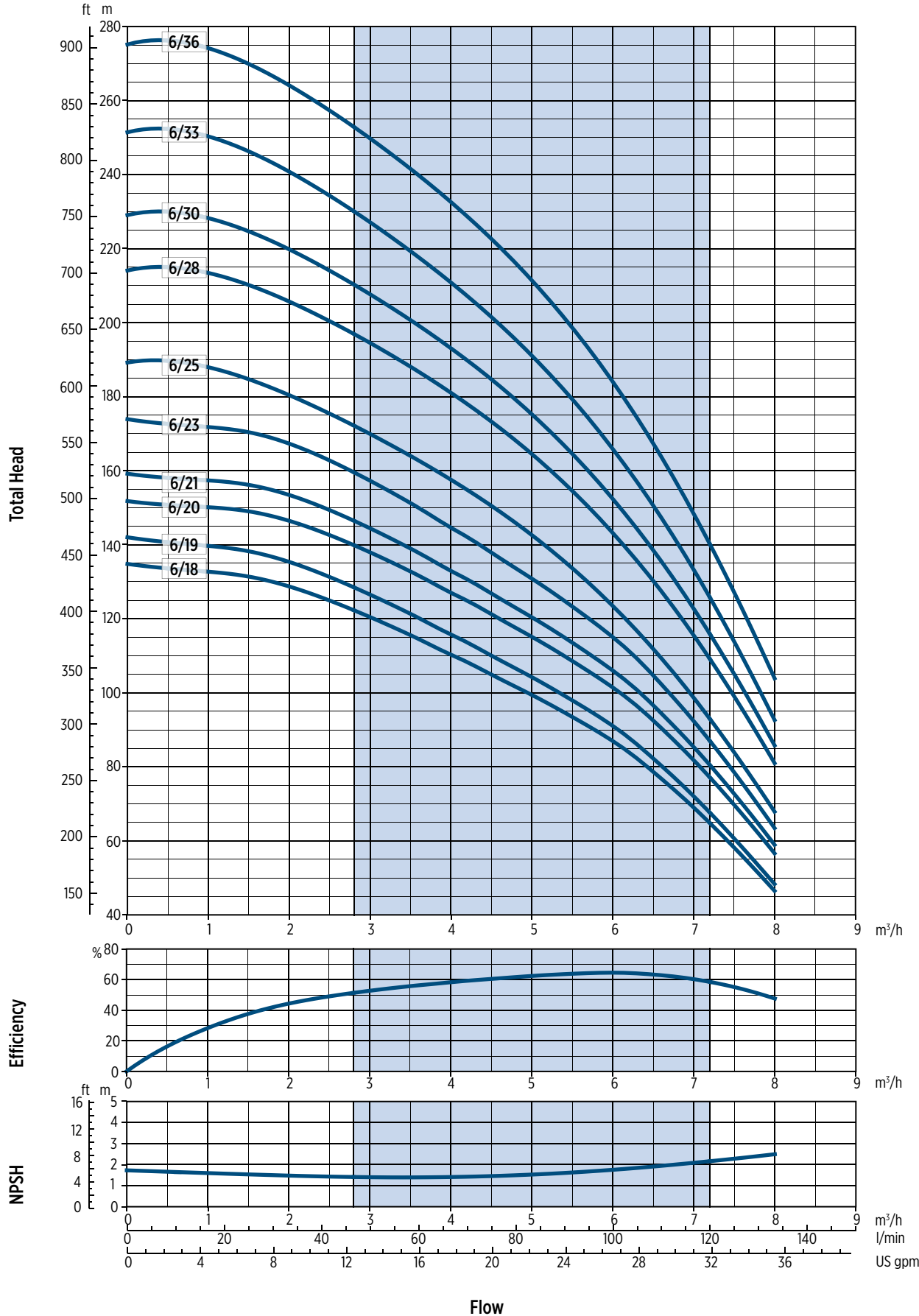
The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

EVR 6 - Performance curves at 50 Hz

MEI ≥ 0,70



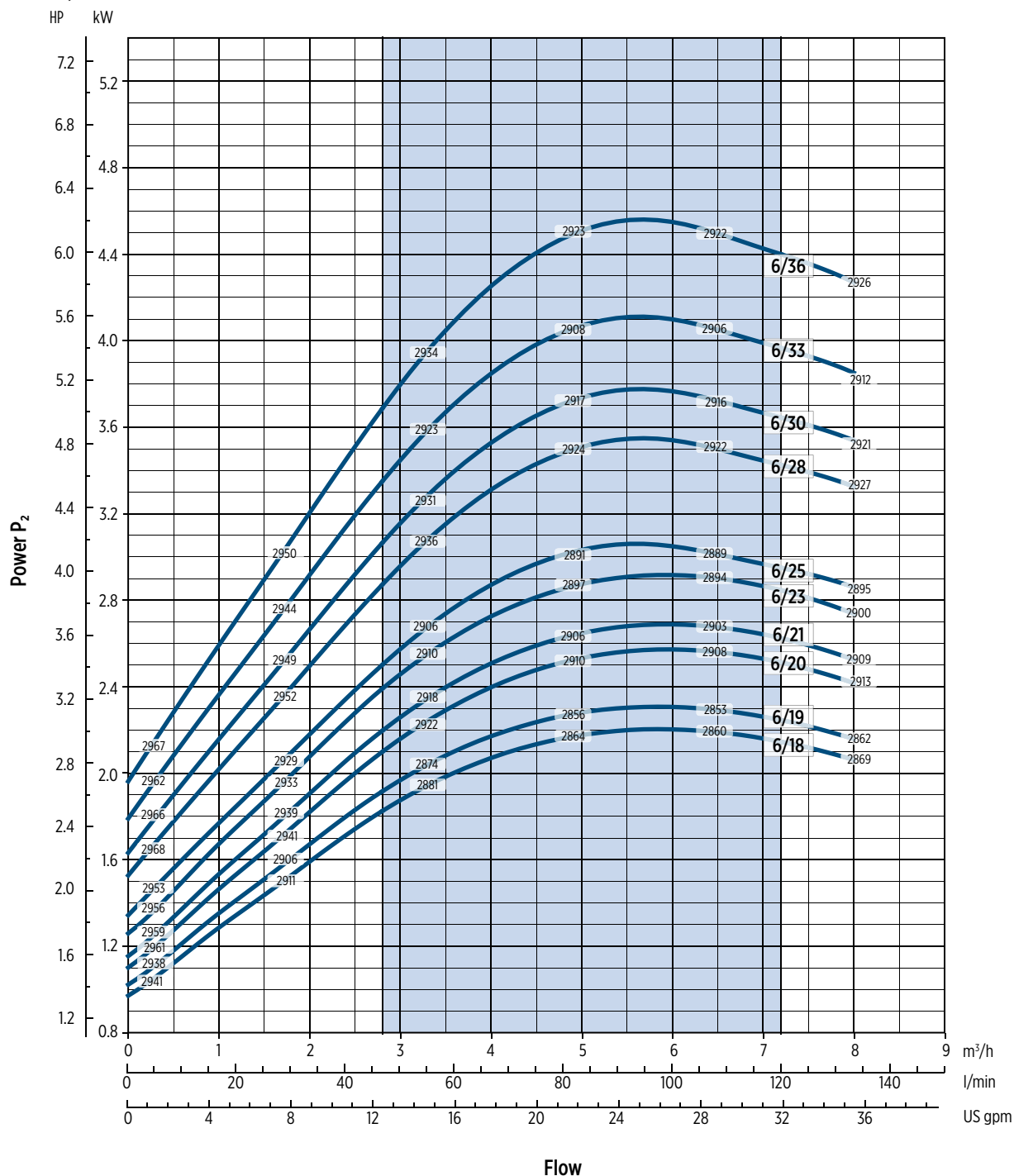
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0020168 03/2021



EVR 6 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120168 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency



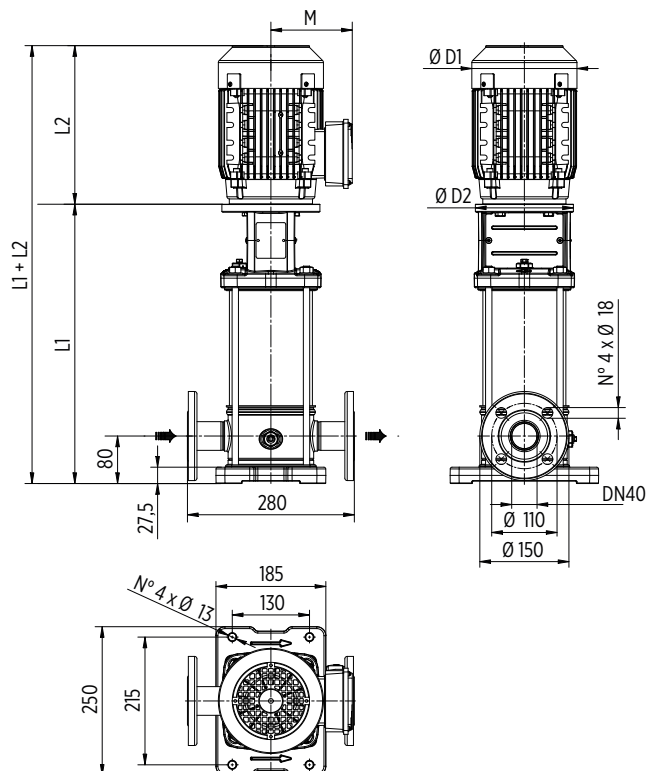
EVR 10 - 50 Hz

TECHNICAL DATA

Pump model	Motor		Dimensions [mm]												Weight [kg]			
			L1		L2		L3	L4	L3	M		D1		D2	L1+L2	Pump	Motor	Electric pump
	[kW]	Dim.	F	1-	3-	T	V	C	1-	3-	1-	3-	D2	L1+L2	Pump	Motor	Electric pump	
10EVR0200-FIS-T52B007-BQE-L3	0,75	80	350	232	232	350	350	350	150	129	160	160	170	582	14	9,5	23,5	
10EVR0300-FIS-T52B011-BQE-L3	1,1	80	380	232	232	380	380	380	150	129	160	160	170	612	14,5	11,1	25,6	
10EVR0400-FIS-T52B015-BQE-L3	1,5	90	410	267	267	410	410	410	160	138	180	180	170	677	15	14	29	
10EVR0500-FIS-T52B015-BQE-L3	1,5	90	440	267	267	440	440	440	160	138	180	180	170	707	16	14	30	
10EVR0600-FIS-T52B022-BQE-L3	2,2	90	470	267	267	470	470	470	160	138	180	180	170	737	16,5	16	32,5	
10EVR0700-FIS-T52B022-BQE-L3	2,2	90	500	267	267	500	500	500	160	138	180	180	170	767	17	16	33	
10EVR0800-FIS-T52B030-BQE-L3	3	100	530	-	306	530	530	530	-	145	-	196	170	836	17,5	22,8	40,3	
10EVR0900-FIS-T52B030-BQE-L3	3	100	560	-	306	560	560	560	-	145	-	196	170	866	18	22,8	40,8	
10EVR1000-FIS-T52C040-BQE-L3	4	112	590	-	306	590	590	590	-	145	-	196	170	896	19	26,5	45,5	
10EVR1100-FIS-T52C040-BQE-L3	4	112	620	-	306	620	620	620	-	145	-	196	170	926	19,5	26,5	46	
10EVR1200-FIS-T52C040-BQE-L3	4	112	650	-	306	650	650	650	-	145	-	196	170	956	20	26,5	46,5	
10EVR1300-FIS-T52C040-BQE-L3	4	112	680	-	306	680	680	680	-	145	-	196	170	986	21	26,5	47,5	
10EVR1500-FIS-T52C055-BQE-L3	5,5	132	952	-	328	952	952	952	-	160	-	225	300	1280	42	33,6	75,6	
10EVR1700-FIS-T52C055-BQE-L3	5,5	132	1012	-	328	-	1012	1012	-	160	-	225	300	1340	43	33,6	76,6	
10EVR1900-FIS-T52C075-BQE-L3	7,5	132	1072	-	350	-	1072	1072	-	160	-	225	300	1422	44,5	36	80,5	
10EVR2100-FIS-T52C075-BQE-L3	7,5	132	1132	-	350	-	1132	1132	-	160	-	225	300	1482	46	36	82	
10EVR2300-FIS-T52C075-BQE-L3	7,5	132	1192	-	350	-	1192	1192	-	160	-	225	300	1542	47	36	83	
10EVR2400-FIS-T52C110-BQE-L3	11	160	1242	-	425	-	1242	1242	-	194	-	248	350	1667	51	59	110	

DIMENSIONAL DRAWINGS

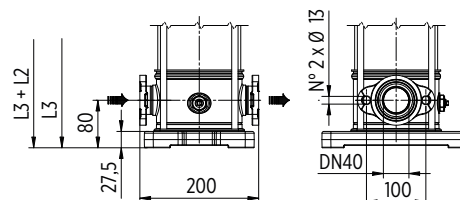
F Version



Round flanges on body type PN25/40: the pump is supplied without counterflanges (Optional accessories, including bolts and joints)

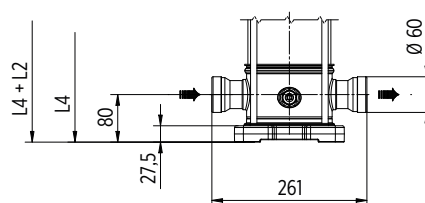
T Version

Available from 10EVR02 to 10EVR15



Oval flanges on body type PN16: the pump is supplied without threaded oval counter flanges (Optional accessories, including bolts and joints)

V Version

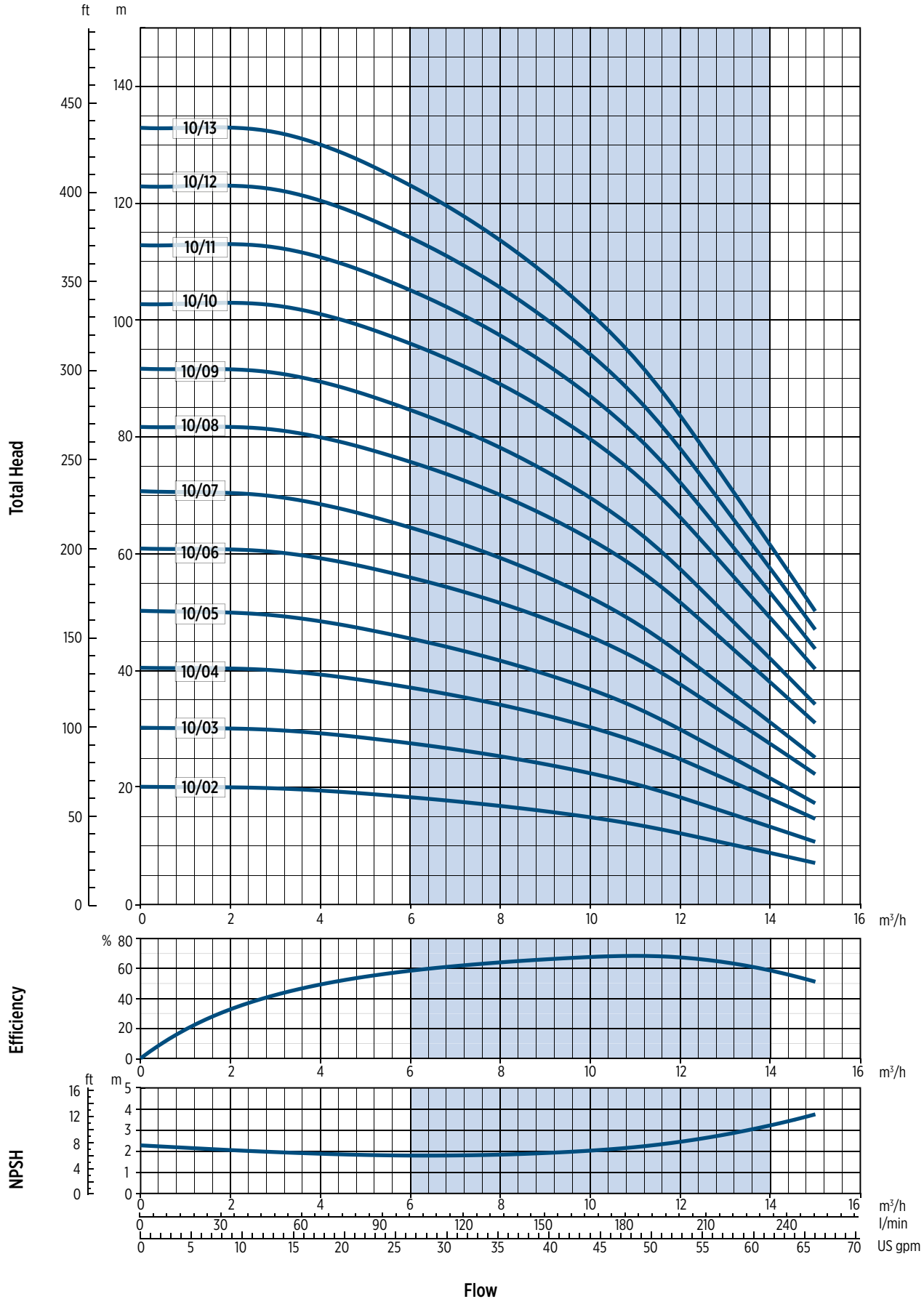


Connections with rapid fittings type "Victaulic": the pump is supplied without the collars (Optional accessories)

00120101 09/2023

EVR 10 - Performance curves at 50 Hz

MEI ≥ 0,70



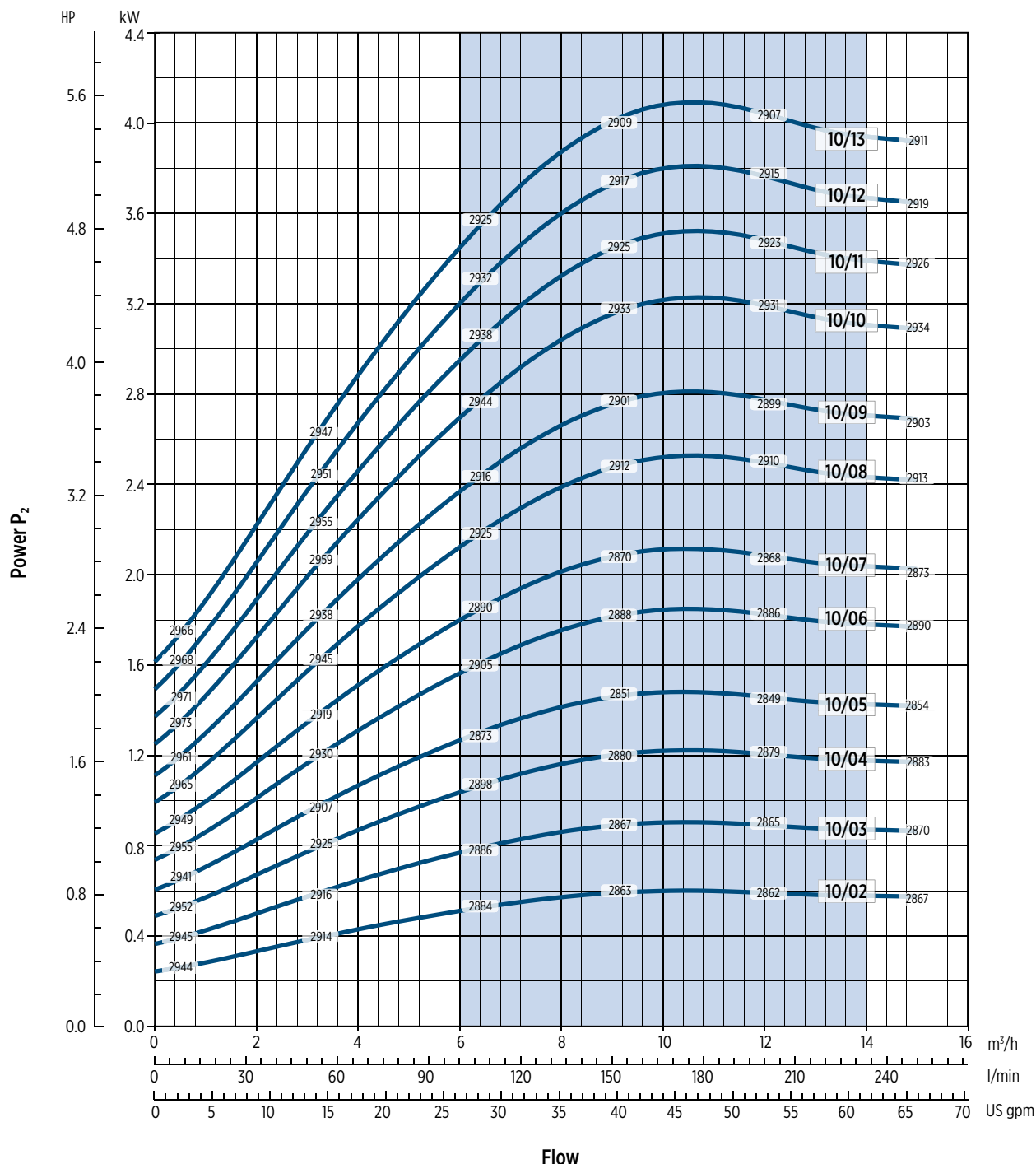
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012017A 03/2021



EVR 10 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0010117A 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

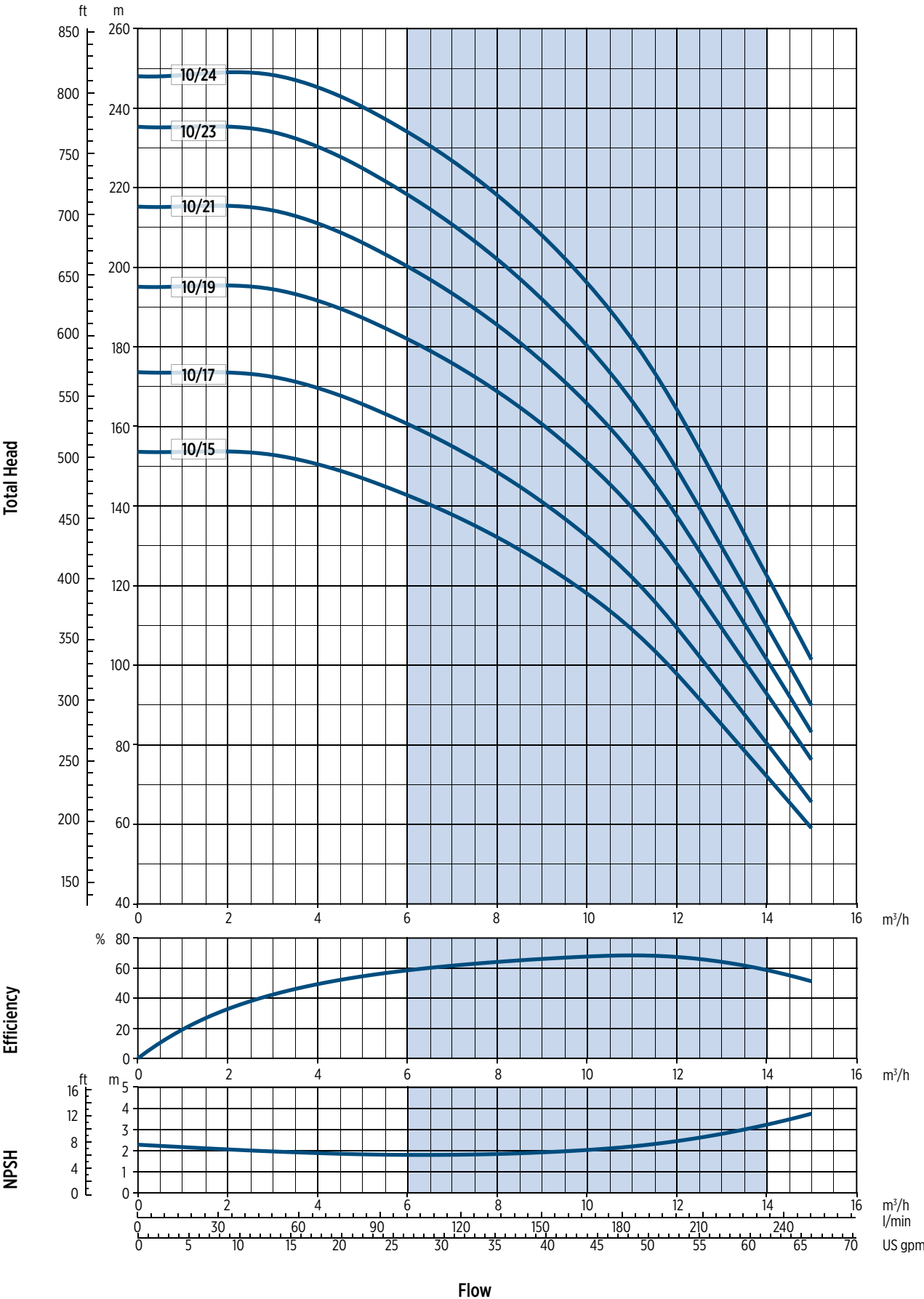
The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

EVR 10 - Performance curves at 50 Hz

MEI ≥ 0,70

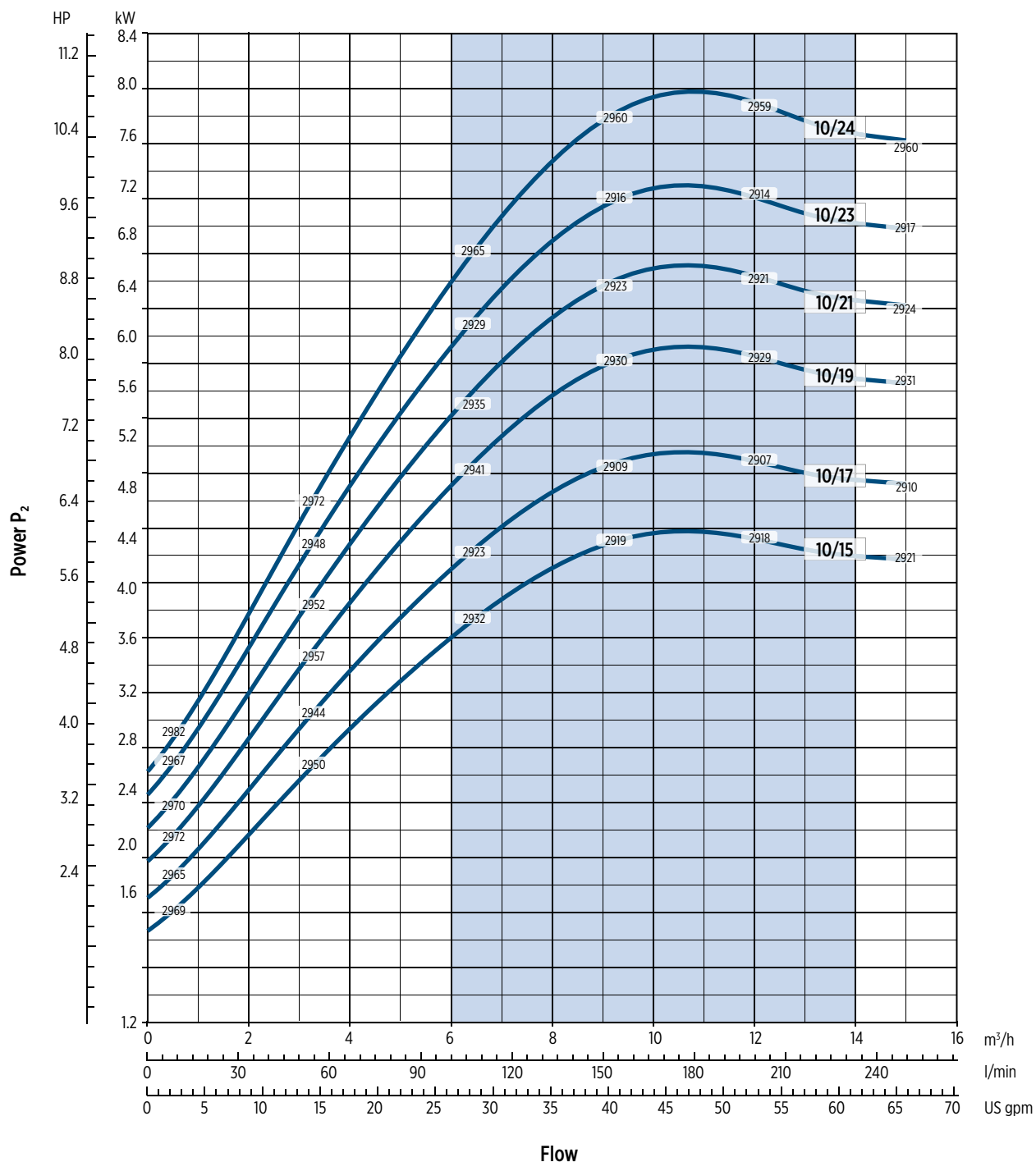


The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120117B 03/2021

EVR 10 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120178 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency



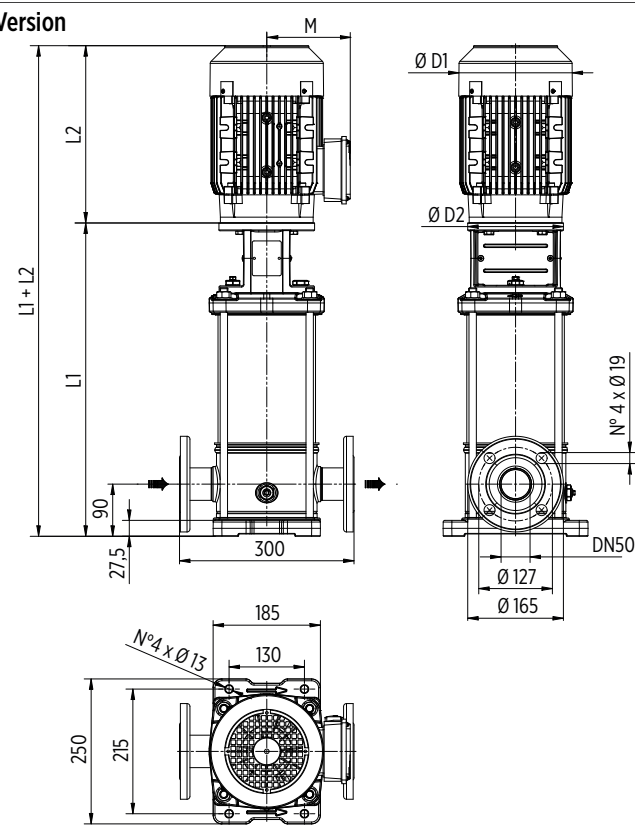
EVR 15 - 50 Hz

TECHNICAL DATA

Pump model	Motor		Dimensions [mm]											Weight [kg]			
			L1	L2		L3	L4	L3	M		D1		D2	L1+L2	Pump	Motor	Electric pump
	[kW]	Dim.	F	1-	3-	T	V	C	1-	3-	1-	3-					
15EVR0100-FIS-T52B007-BQE-L3	0,75	80	396	232	232	396	396	396	150	129	160	160	170	628	19	9,5	28,5
15EVR0200-FIS-T52B015-BQE-L3	1,5	90	396	267	267	396	396	396	160	138	180	180	170	663	20	14	34
15EVR0300-FIS-T52B022-BQE-L3	2,2	90	444	-	267	444	444	444	-	138	-	180	170	711	21,5	16	37,5
15EVR0400-FIS-T52B030-BQE-L3	3	100	492	-	306	492	492	492	-	145	-	196	170	798	22,5	22,8	45,3
15EVR0500-FIS-T52C040-BQE-L3	4	112	540	-	306	540	540	540	-	145	-	196	170	846	24	26,5	50,5
15EVR0600-FIS-T52C055-BQE-L3	5,5	132	800	-	328	800	800	800	-	160	-	225	300	1128	45,5	33,6	79,1
15EVR0700-FIS-T52C055-BQE-L3	5,5	132	848	-	328	848	848	848	-	160	-	225	300	1176	46,5	33,6	80,1
15EVR0800-FIS-T52C075-BQE-L3	7,5	132	896	-	350	896	896	896	-	160	-	225	300	1246	48	36	84
15EVR0900-FIS-T52C075-BQE-L3	7,5	132	944	-	350	944	944	944	-	160	-	225	300	1294	49,5	36	85,5
15EVR1000-FIS-T52C110-BQE-L3	11	160	1012	-	425	1012	1012	1012	-	194	-	248	350	1437	54	59	113
15EVR1100-FIS-T52C110-BQE-L3	11	160	1060	-	425	-	1060	1060	-	194	-	248	350	1485	55,5	59	114,5
15EVR1200-FIS-T52C110-BQE-L3	11	160	1108	-	425	-	1108	1108	-	194	-	248	350	1533	57	59	116
15EVR1300-FIS-T52C110-BQE-L3	11	160	1156	-	425	-	1156	1156	-	194	-	248	350	1581	58,5	59	117,5
15EVR1400-FIS-T52C110-BQE-L3	11	160	1204	-	425	-	1204	1204	-	194	-	248	350	1629	60	59	119
15EVR1500-FIS-T52C150-BQE-L3	15	160	1252	-	476	-	1252	1252	-	194	-	248	350	1728	61	68	129
15EVR1600-FIS-T52C150-BQE-L3	15	160	1300	-	476	-	1300	1300	-	194	-	248	350	1776	62,5	68	130,5
15EVR1700-FIS-T52C150-BQE-L3	15	160	1348	-	476	-	1348	1348	-	194	-	248	350	1824	64	68	132

DIMENSIONAL DRAWINGS

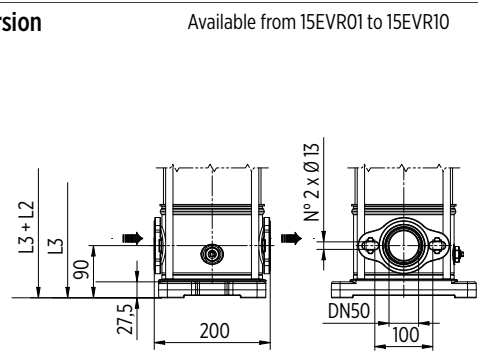
F Version



Round flanges on body type PN25/40: the pump is supplied without counterflanges (Optional accessories, including bolts and joints)

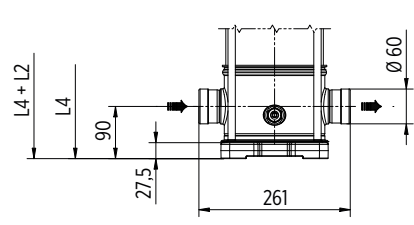
T Version

Available from 15EVR01 to 15EVR10



Oval flanges on body type PN16: the pump is supplied without threaded oval counter flanges (Optional accessories, including bolts and joints)

V Version

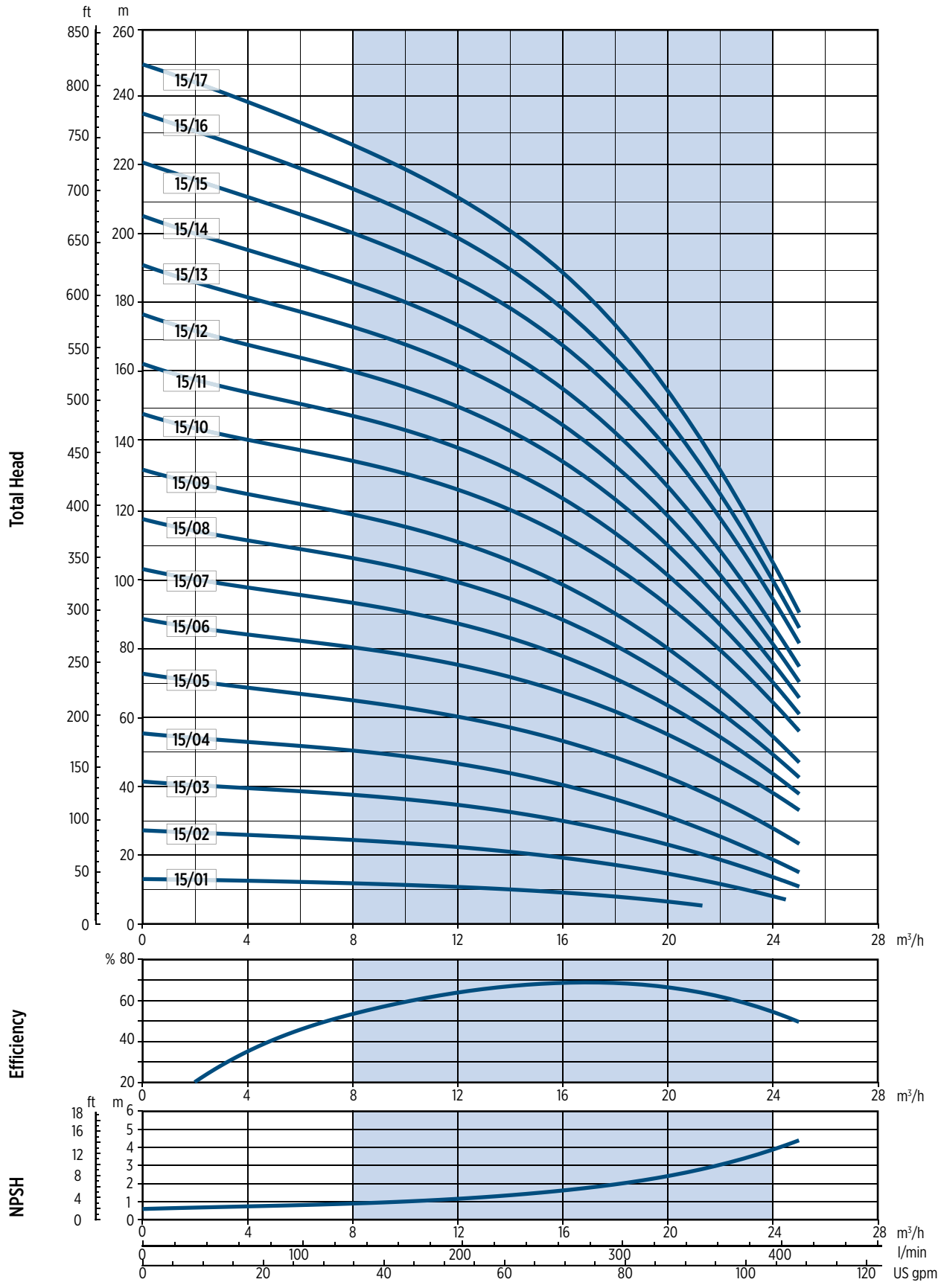


Connections with rapid fittings type "Victaulic": the pump is supplied without the collars (Optional accessories)

00130102 09/2025

EVR 15 - Performance curves at 50 Hz

MEI ≥ 0,70



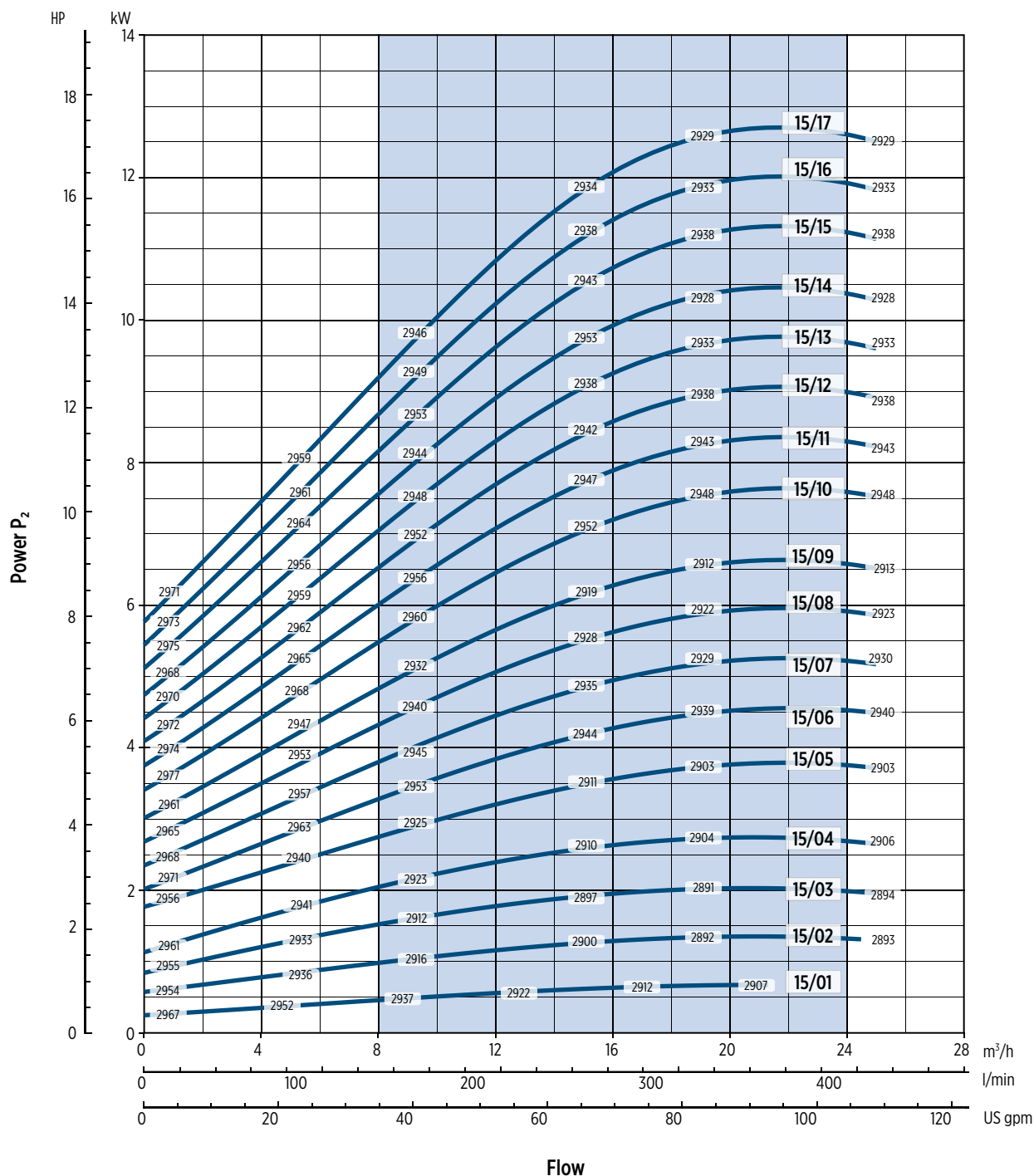
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002018 03/2021



EVR 15 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012018 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency



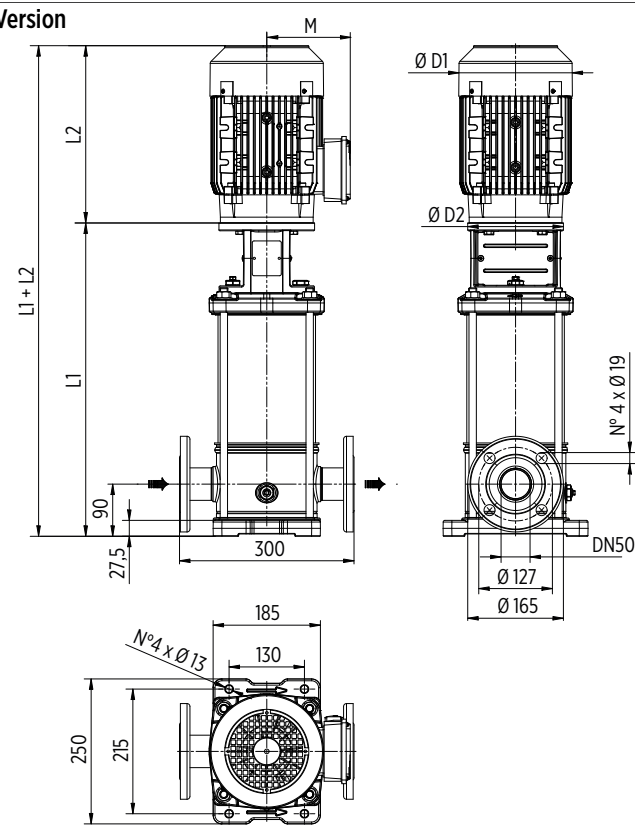
EVR 20 - 50 Hz

TECHNICAL DATA

Pump model	Motor		Dimensions [mm]												Weight [kg]			
			L1	L2		L3	L4	L3	M		D1		D2	L1+L2	Pump	Motor	Elecric pump	
	[kW]	Dim.	F	1-	3-	T	V	C	1-	3-	1-	3-						
20EVR0100-FIS-T52B011-BQE-L3	1,1	80	396	232	232	396	396	396	150	129	160	160	170	628	19	11,1	30,1	
20EVR0200-FIS-T52B022-BQE-L3	2,2	90	396	267	267	396	396	396	160	138	180	180	170	663	20	16	36	
20EVR0300-FIS-T52B030-BQE-L3	3	100	444	-	306	444	444	444	-	145	-	196	170	750	21,5	22,8	44,3	
20EVR0400-FIS-T52C040-BQE-L3	4	112	492	-	306	492	492	492	-	145	-	196	170	798	22,5	26,5	49	
20EVR0500-FIS-T52C055-BQE-L3	5,5	132	752	-	328	752	752	752	-	160	-	225	300	1080	44	33,6	77,6	
20EVR0600-FIS-T52C075-BQE-L3	7,5	132	800	-	350	800	800	800	-	160	-	225	300	1150	45,5	36	81,5	
20EVR0700-FIS-T52C075-BQE-L3	7,5	132	848	-	350	848	848	848	-	160	-	225	300	1198	46,5	36	82,5	
20EVR0800-FIS-T52C110-BQE-L3	11	160	916	-	425	916	916	916	-	194	-	248	350	1341	51,5	59	110,5	
20EVR0900-FIS-T52C110-BQE-L3	11	160	964	-	425	964	964	964	-	194	-	248	350	1389	53	59	112	
20EVR1000-FIS-T52C110-BQE-L3	11	160	1012	-	425	1012	1012	1012	-	194	-	248	350	1437	54,5	59	113,5	
20EVR1100-FIS-T52C150-BQE-L3	15	160	1060	-	476	-	1060	1060	-	194	-	248	350	1536	55,5	68	123,5	
20EVR1200-FIS-T52C150-BQE-L3	15	160	1108	-	476	-	1108	1108	-	194	-	248	350	1584	57	68	125	
20EVR1300-FIS-T52C150-BQE-L3	15	160	1156	-	476	-	1156	1156	-	194	-	248	350	1632	58,5	68	126,5	
20EVR1400-FIS-T52C150-BQE-L3	15	160	1204	-	476	-	1204	1204	-	194	-	248	350	1680	60	68	128	
20EVR1500-FIS-T52C185-BQE-L3	18,5	160	1252	-	542	-	1252	1252	-	238	-	317	350	1794	61,5	104	165,5	
20EVR1600-FIS-T52C185-BQE-L3	18,5	160	1300	-	542	-	1300	1300	-	238	-	317	350	1842	62,5	104	166,5	
20EVR1700-FIS-T52C185-BQE-L3	18,5	160	1348	-	542	-	1348	1348	-	238	-	317	350	1890	64	104	168	

DIMENSIONAL DRAWINGS

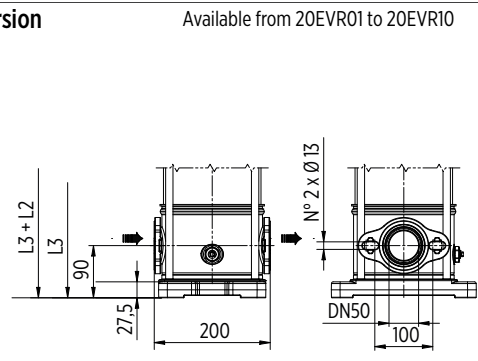
F Version



Round flanges on body type PN25/40: the pump is supplied without counterflanges (Optional accessories, including bolts and joints)

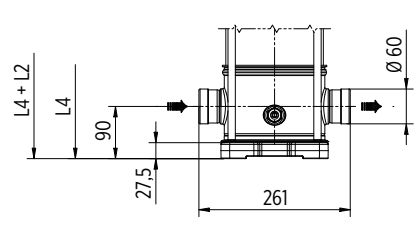
T Version

Available from 20EVR01 to 20EVR10



Oval flanges on body type PN16: the pump is supplied without threaded oval counter flanges (Optional accessories, including bolts and joints)

V Version

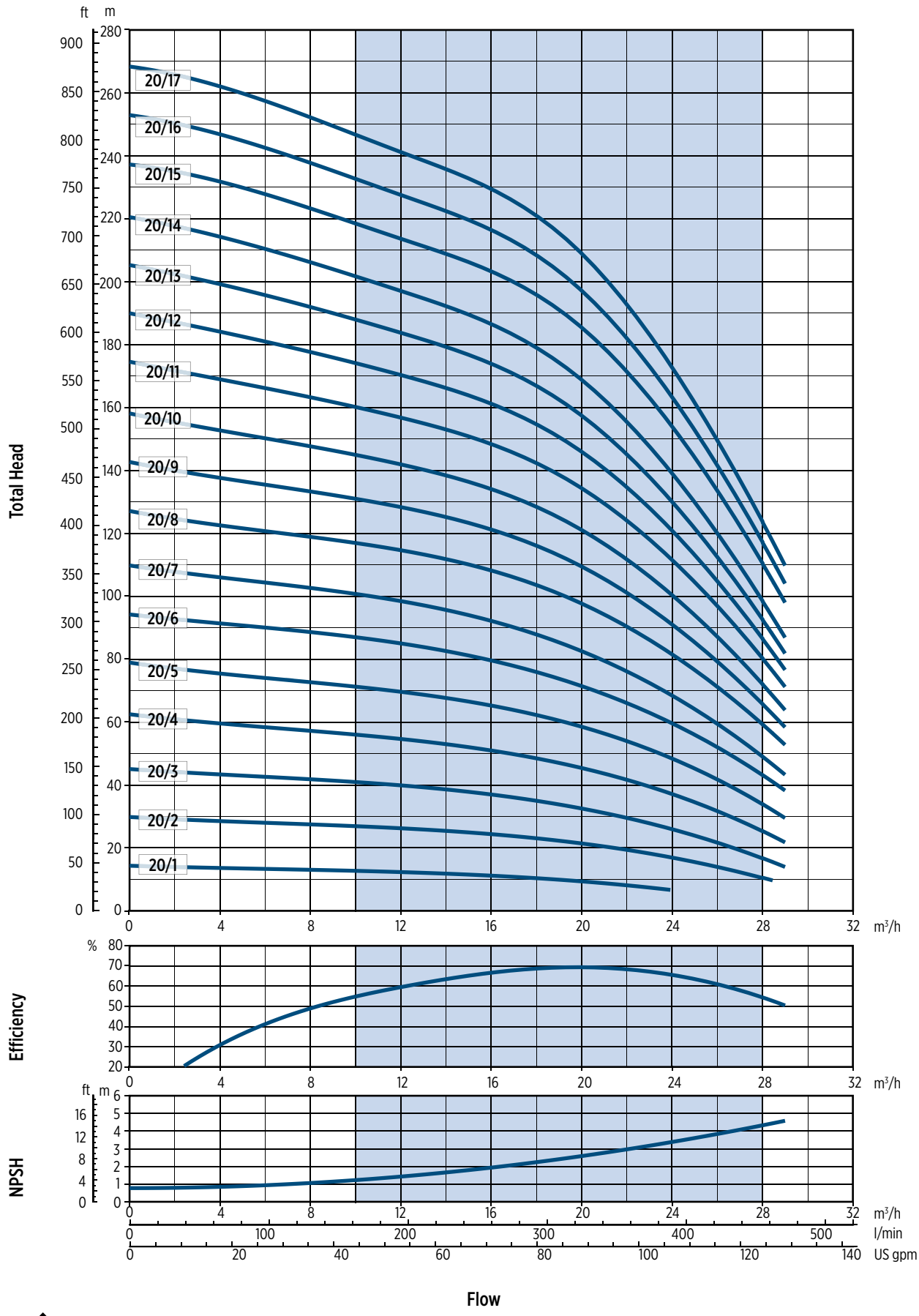


Connections with rapid fittings type "Victaulic": the pump is supplied without the collars (Optional accessories)

00130102 09/2023

EVR 20 - Performance curves at 50 Hz

MEI ≥ 0,70



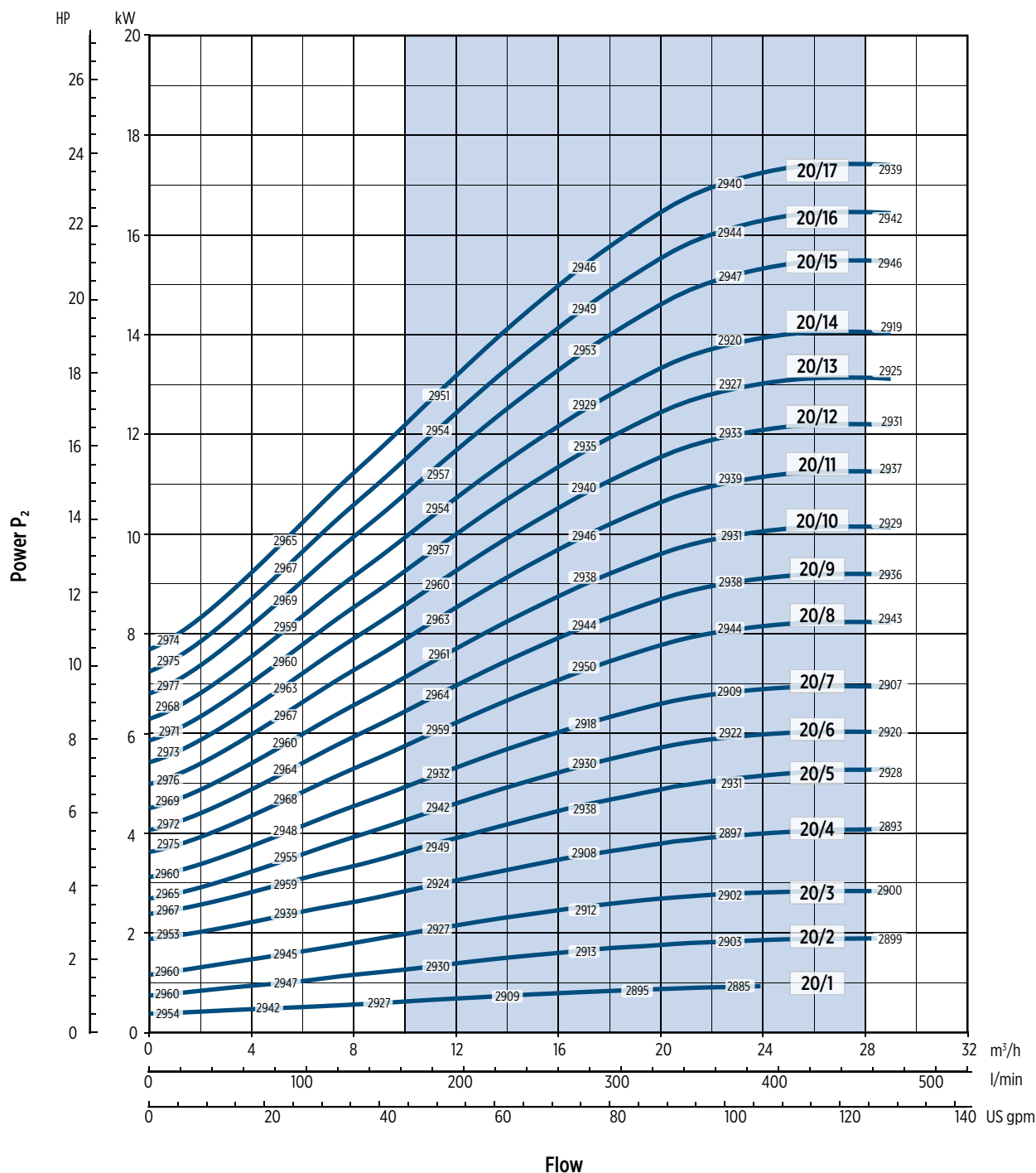
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012019 03/2021



EVR 20 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002019 03/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

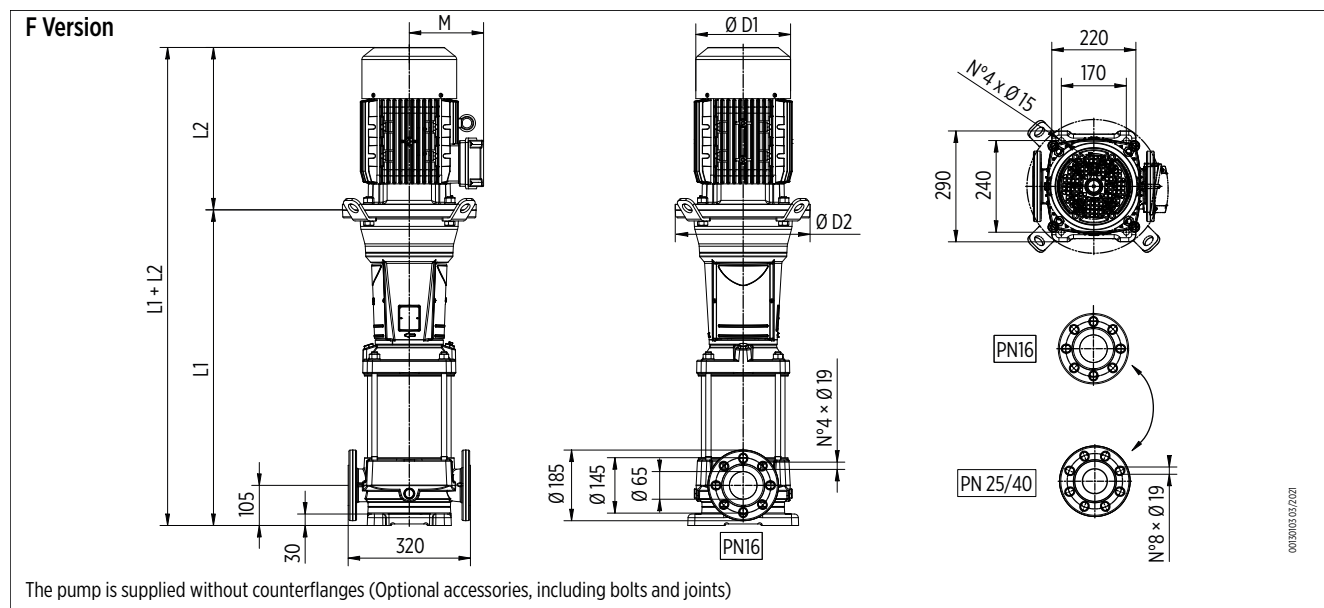


EVR 30 - 50 Hz

TECHNICAL DATA

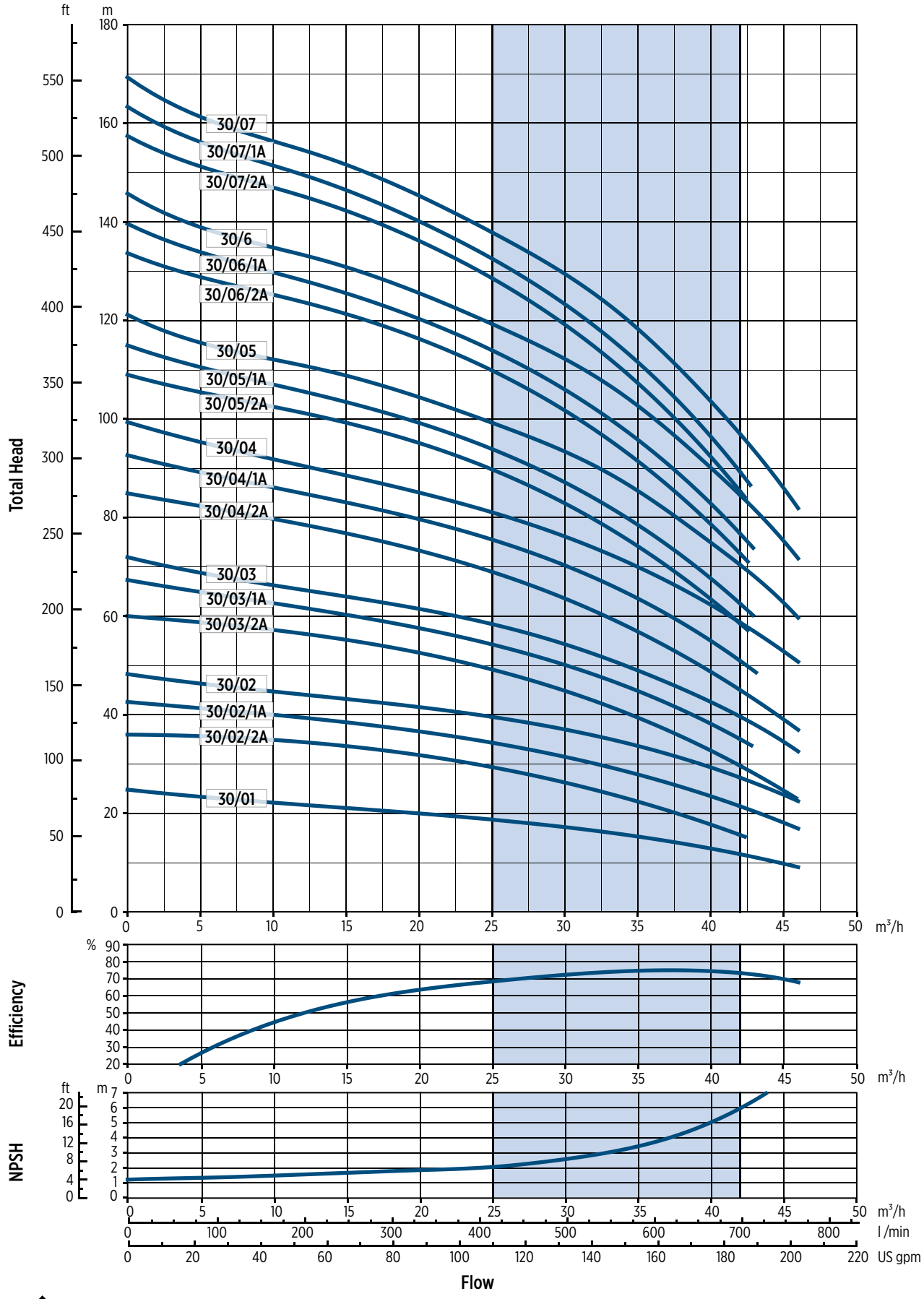
Pump model	Motor		Dimensions [mm]						Weight [kg]		
	[kW]	Dim.	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric pump
30EVR0100-FGS-T52B022-HBQE-L3	2,2	90	431	267	138	180	170	698	48,5	16	64,5
30EVR022A-FGS-T52C040-HBQE-L3	4	112	513	306	145	196	170	819	52	26,5	78,5
30EVR021A-FGS-T52C040-HBQE-L3	4	112	513	306	145	196	170	819	52	26,5	78,5
30EVR0200-FGS-T52C055-HBQE-L3	5,5	132	724	328	160	225	300	1052	72,5	33,6	106,1
30EVR032A-FGS-T52C055-HBQE-L3	5,5	132	806	328	160	225	300	1134	76,5	33,6	110,1
30EVR031A-FGS-T52C075-HBQE-L3	7,5	132	806	350	160	225	300	1156	76,5	36	112,5
30EVR0300-FGS-T52C075-HBQE-L3	7,5	132	806	350	160	225	300	1156	76,5	36	112,5
30EVR042A-FGS-T52C075-HBQE-L3	7,5	132	888	350	160	225	300	1238	80,5	36	116,5
30EVR041A-FGS-T52C110-HBQE-L3	11	160	908	425	194	248	350	1333	84	59	143
30EVR0400-FGS-T52C110-HBQE-L3	11	160	908	425	194	248	350	1333	84	59	143
30EVR052A-FGS-T52C110-HBQE-L3	11	160	991	425	194	248	350	1416	88	59	147
30EVR051A-FGS-T52C110-HBQE-L3	11	160	991	425	194	248	350	1416	88	59	147
30EVR0500-FGS-T52C150-HBQE-L3	15	160	991	476	194	248	350	1467	88	68	156
30EVR062A-FGS-T52C150-HBQE-L3	15	160	1073	476	194	248	350	1549	92	68	160
30EVR061A-FGS-T52C150-HBQE-L3	15	160	1073	476	194	248	350	1549	92	68	160
30EVR0600-FGS-T52C150-HBQE-L3	15	160	1073	476	194	248	350	1549	92	68	160
30EVR072A-FGS-T52C150-HBQE-L3	15	160	1155	476	194	248	350	1631	96	68	164
30EVR071A-FGS-T52C150-HBQE-L3	15	160	1155	476	194	248	350	1631	96	68	164
30EVR0700-FGS-T52C185-HBQE-L3	18,5	160	1155	542	238	317	350	1697	96	104	200
30EVR082A-FGS-T52C185-HBQE-L3	18,5	160	1237	542	238	317	350	1779	100	104	204
30EVR081A-FGS-T52C185-HBQE-L3	18,5	160	1237	542	238	317	350	1779	100	104	204
30EVR0800-FGS-T52C185-HBQE-L3	18,5	160	1237	542	238	317	350	1779	100	104	204
30EVR092A-FGS-T52C220-HBQE-L3	22	180	1319	542	238	317	350	1861	103,5	106	209,5
30EVR091A-FGS-T52C220-HBQE-L3	22	180	1319	542	238	317	350	1861	103,5	106	209,5
30EVR0900-FGS-T52C220-HBQE-L3	22	180	1319	542	238	317	350	1861	103,5	106	209,5
30EVR102A-FGS-T52C220-HBQE-L3	22	180	1401	542	238	317	350	1943	107,5	106	213,5
30EVR101A-FGS-T52C220-HBQE-L3	22	180	1401	542	238	317	350	1943	107,5	106	213,5
30EVR1000-FGS-T52C300-HBQE-W3	30	200	1406	658	297	399	400	2064	111	276	387
30EVR112A-FGS-T52C300-HBQE-W3	30	200	1488	658	297	399	400	2146	115	276	391
30EVR111A-FGS-T52C300-HBQE-W3	30	200	1488	658	297	399	400	2146	115	276	391
30EVR1100-FGS-T52C300-HBQE-W3	30	200	1488	658	297	399	400	2146	115	276	391
30EVR122A-FGS-T52C300-HBQE-W3	30	200	1570	658	297	399	400	2228	119	276	395
30EVR121A-FGS-T52C300-HBQE-W3	30	200	1570	658	297	399	400	2228	119	276	395
30EVR1200-FGS-T52C300-HBQE-W3	30	200	1570	658	297	399	400	2228	119	276	395
30EVR132A-FGS-T52C300-HBQE-W3	30	200	1652	658	297	399	400	2310	122,5	276	398,5
30EVR131A-FGS-T52C300-HBQE-W3	30	200	1652	658	297	399	400	2310	122,5	276	398,5
30EVR1300-FGS-T52C300-HBQE-W3	30	200	1652	658	297	399	400	2310	122,5	276	398,5

DIMENSIONAL DRAWINGS



EVR 30 - Performance curves at 50 Hz

MEI ≥ 0,70



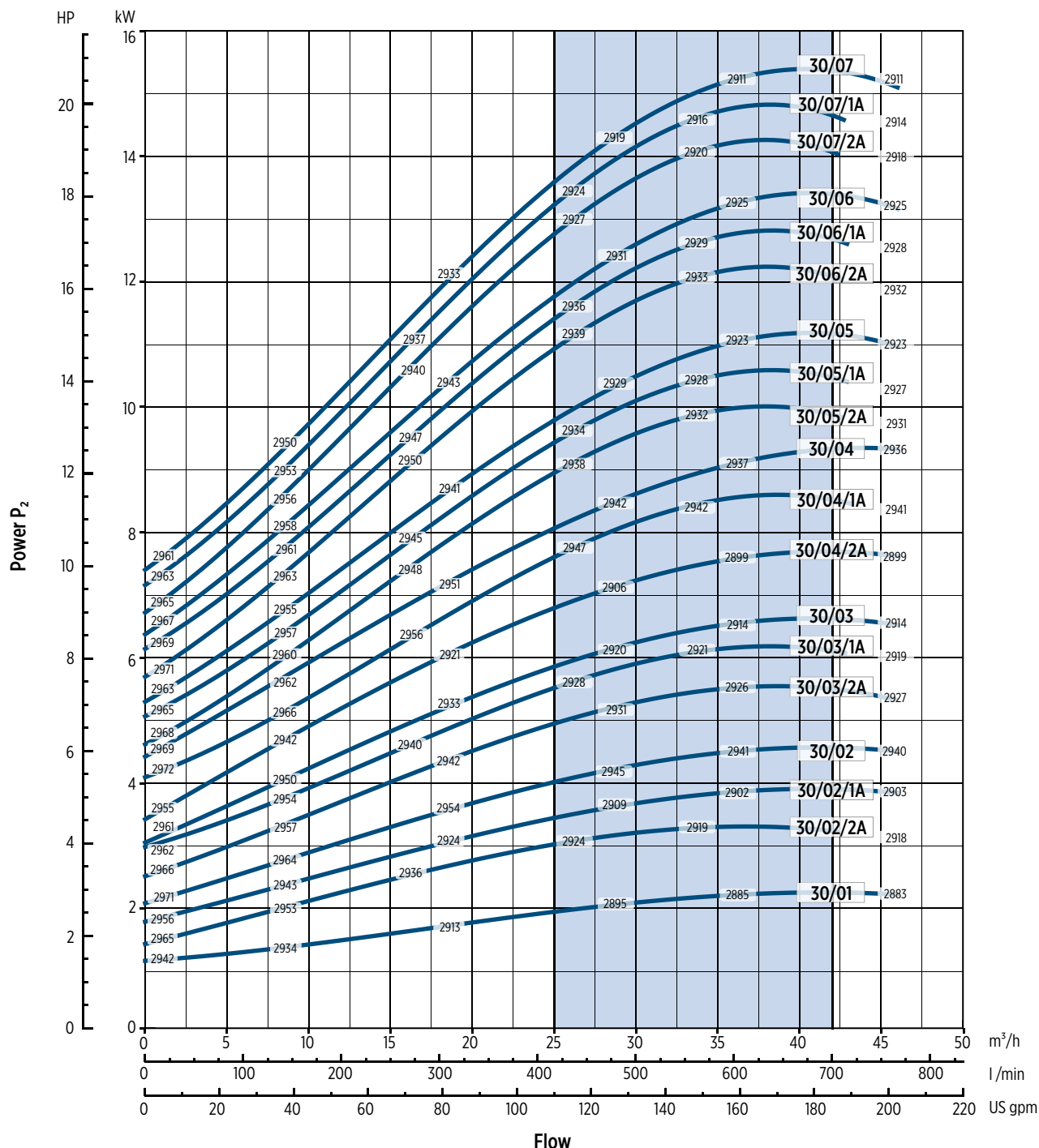
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120120A 05/2021



EVR 30 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002020A 05/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

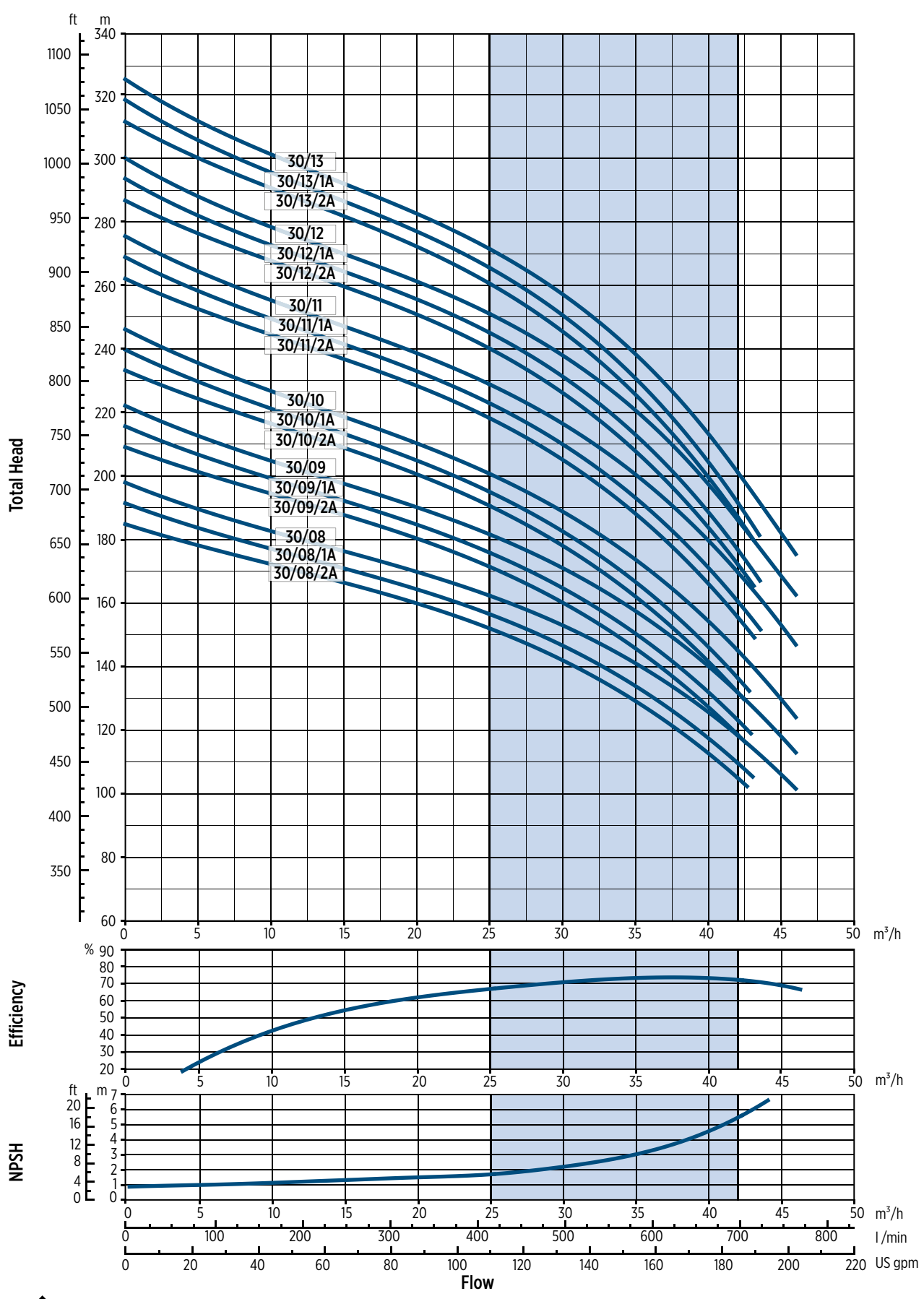
The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

EVR 30 - Performance curves at 50 Hz

MEI ≥ 0,70



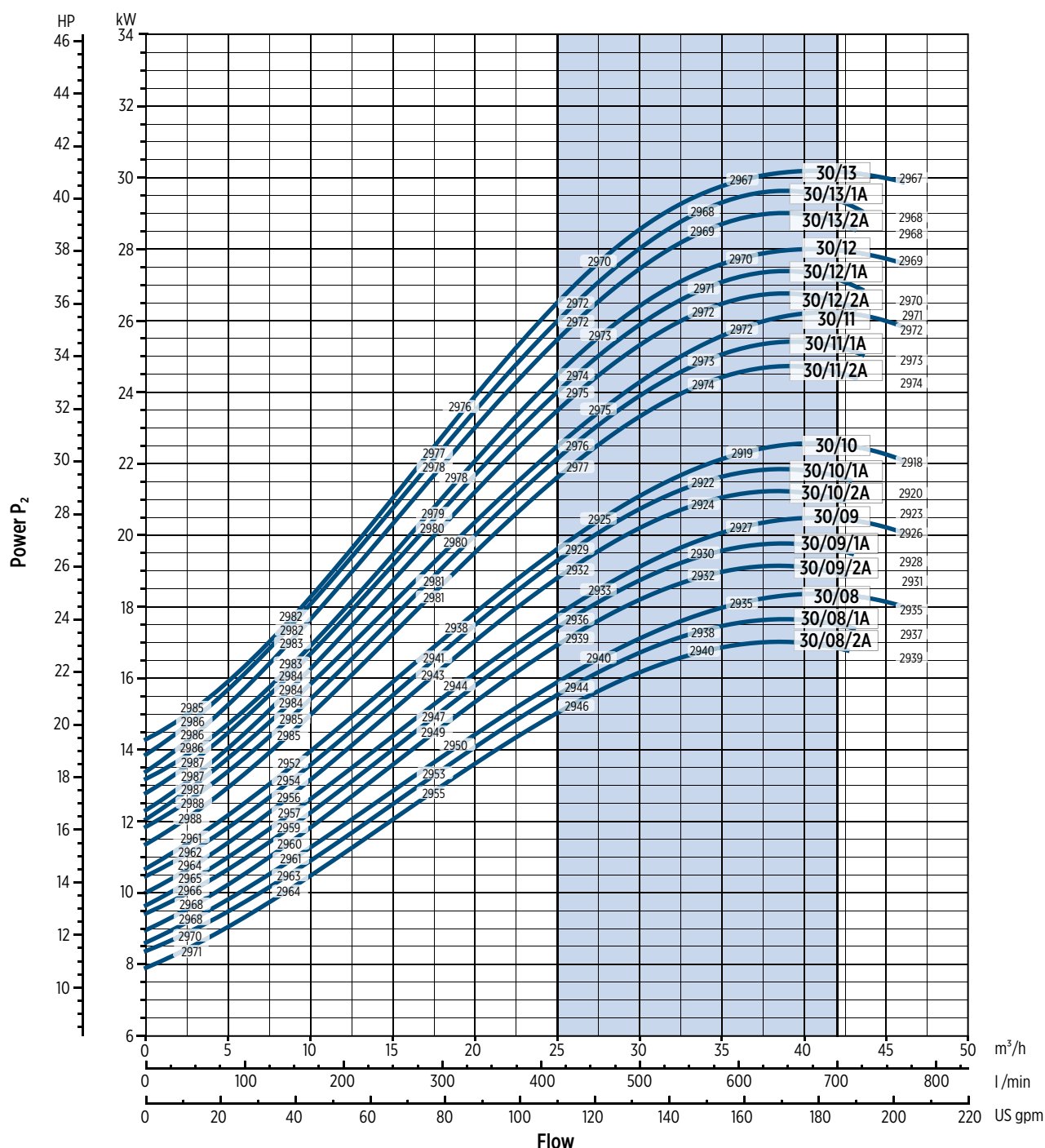
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

00120208 02/2021



EVR 30 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

002020208.02/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

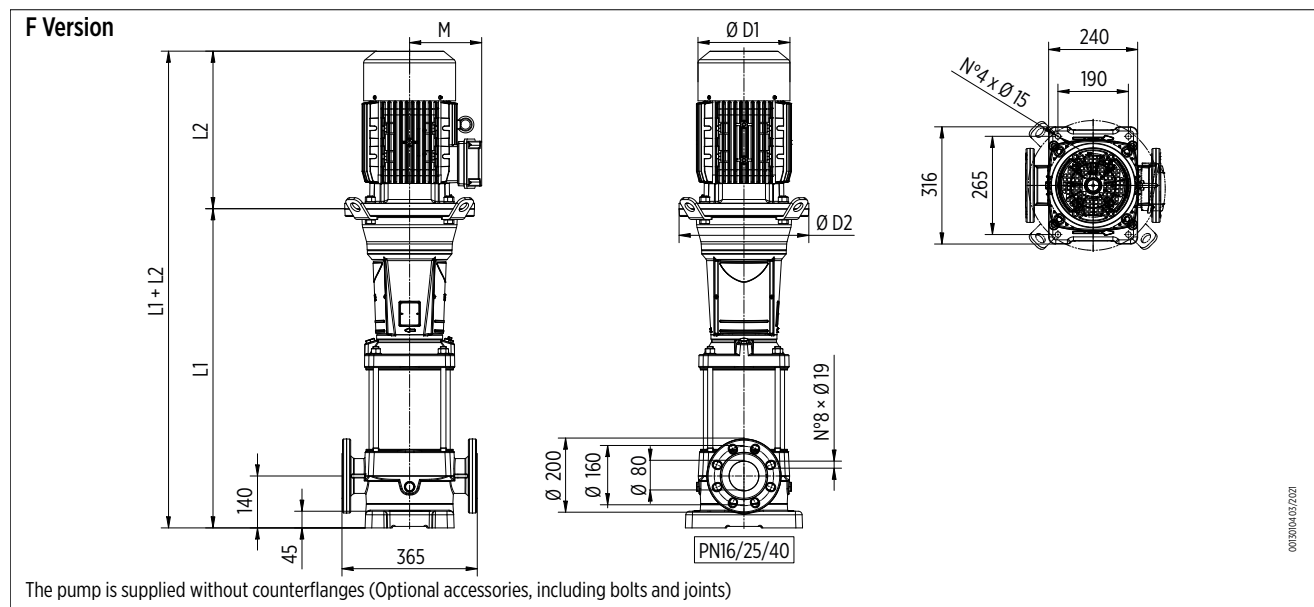


EVR 45 - 50 Hz

TECHNICAL DATA

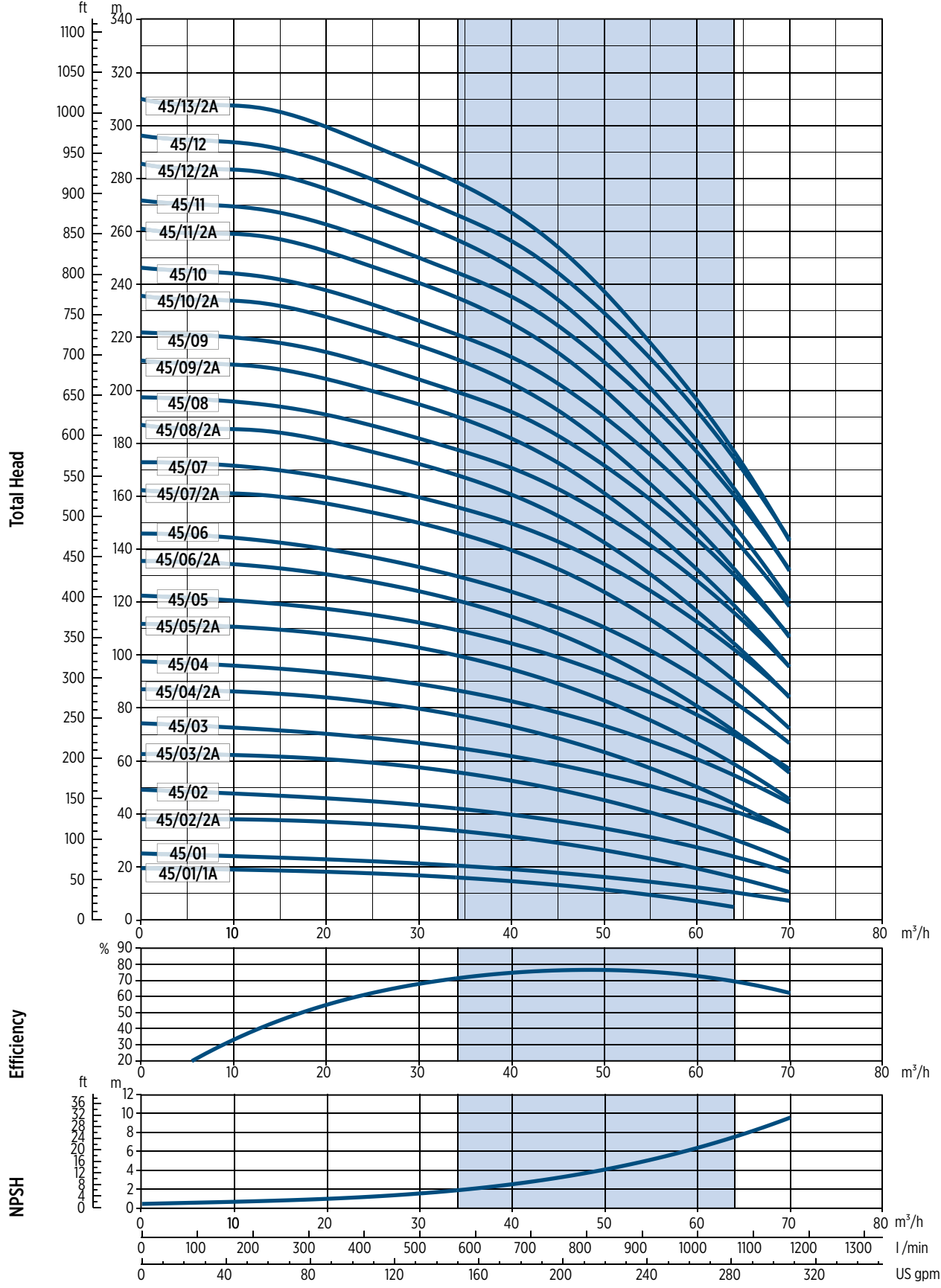
Pump model	Motor		Dimensions [mm]						Weight [kg]		
	[kW]	Dim.	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric pump
45EVR011A-FGS-T52B030-HBQE-L3	3	100	466	306	145	196	170	772	54	22,8	76,8
45EVR0100-FGS-T52C040-HBQE-L3	4	112	466	306	145	196	170	772	54	26,5	80,5
45EVR022A-FGS-T52C055-HBQE-L3	5,5	132	759	328	160	225	300	1087	78,5	33,6	112,1
45EVR0200-FGS-T52C075-HBQE-L3	7,5	132	759	350	160	225	300	1109	78,5	36	114,5
45EVR032A-FGS-T52C110-HBQE-L3	11	160	861	425	194	248	350	1286	85,5	59	144,5
45EVR0300-FGS-T52C110-HBQE-L3	11	160	861	425	194	248	350	1286	85,5	59	144,5
45EVR042A-FGS-T52C150-HBQE-L3	15	160	943	476	194	248	350	1419	89,5	68	157,5
45EVR0400-FGS-T52C150-HBQE-L3	15	160	943	476	194	248	350	1419	89,5	68	157,5
45EVR052A-FGS-T52C185-HBQE-L3	18,5	160	1026	542	238	317	350	1568	93,5	104	197,5
45EVR0500-FGS-T52C185-HBQE-L3	18,5	160	1026	542	238	317	350	1568	93,5	104	197,5
45EVR062A-FGS-T52C220-HBQE-L3	22	180	1108	542	238	317	350	1650	97,5	106	203,5
45EVR0600-FGS-T52C220-HBQE-L3	22	180	1108	542	238	317	350	1650	97,5	106	203,5
45EVR072A-FGS-T52C300-HBQE-W3	30	200	1195	658	297	399	400	1853	104,5	276	380,5
45EVR0700-FGS-T52C300-HBQE-W3	30	200	1195	658	297	399	400	1853	104,5	276	380,5
45EVR082A-FGS-T52C300-HBQE-W3	30	200	1277	658	297	399	400	1935	108,5	276	384,5
45EVR0800-FGS-T52C300-HBQE-W3	30	200	1277	658	297	399	400	1935	108,5	276	384,5
45EVR092A-FGS-T52C370-HBQE-W3	37	200	1359	658	297	399	400	2017	112,5	283	395,5
45EVR0900-FGS-T52C370-HBQE-W3	37	200	1359	658	297	399	400	2017	112,5	283	395,5
45EVR102A-FGS-T52C370-HBQE-W3	37	200	1441	658	297	399	400	2099	116,5	283	399,5
45EVR1000-FGS-T52C370-HBQE-W3	37	200	1441	658	297	399	400	2099	116,5	283	399,5
45EVR112A-FGS-T52C450-HBQE-W3	45	225	1523	699	328	465	450	2222	122,5	370	492,5
45EVR1100-FGS-T52C450-HBQE-W3	45	225	1523	699	328	465	450	2222	122,5	370	492,5
45EVR122A-FGS-T52C450-HBQE-W3	45	225	1605	699	328	465	450	2304	126,5	370	496,5
45EVR1200-FGS-T52C450-HBQE-W3	45	225	1605	699	328	465	450	2304	126,5	370	496,5
45EVR132A-FGS-T52C450-HBQE-W3	45	225	1687	699	328	465	450	2386	130,5	370	500,5

DIMENSIONAL DRAWINGS



EVR 45 - Performance curves at 50 Hz

MEI ≥ 0,70



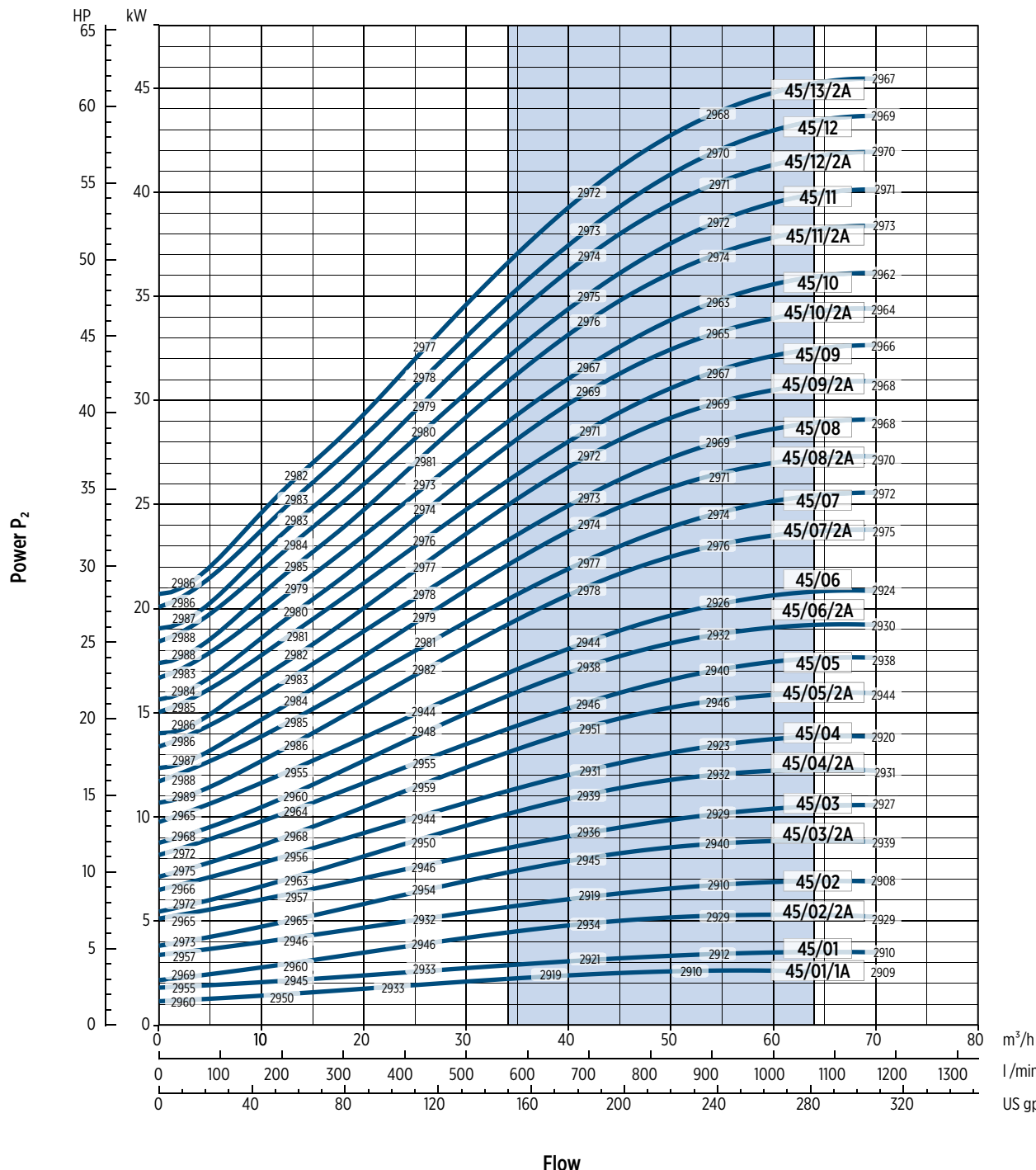
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012021 02/2021



EVR 45 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012021 02/2021

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

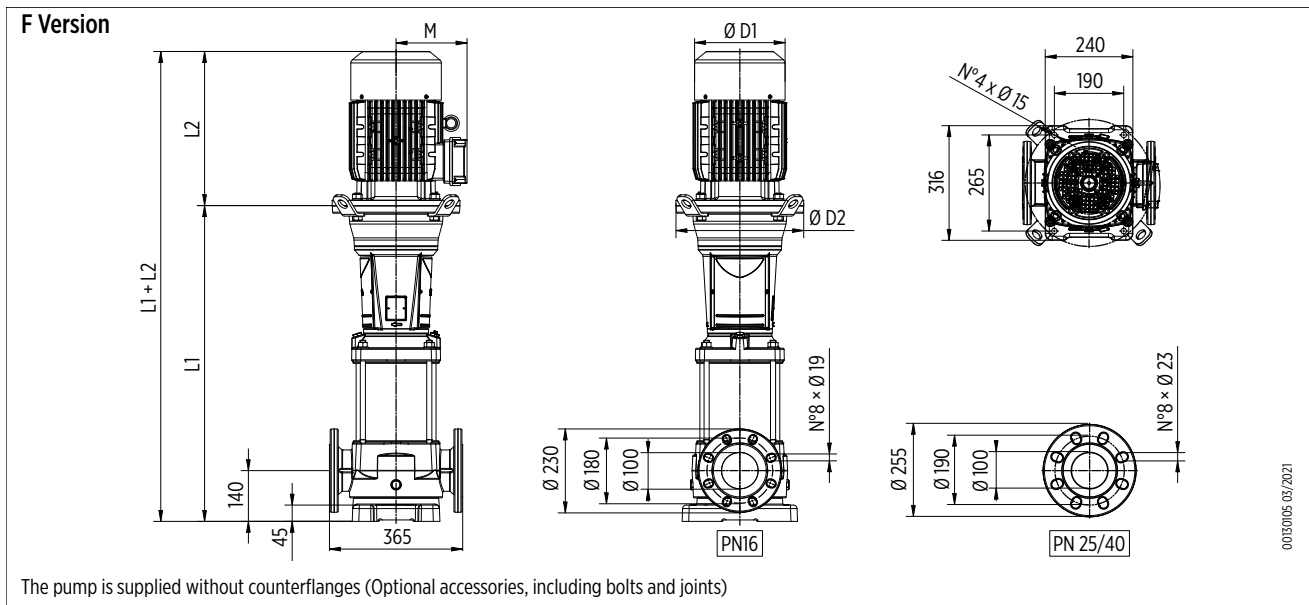


EVR 65 - 50 Hz

TECHNICAL DATA

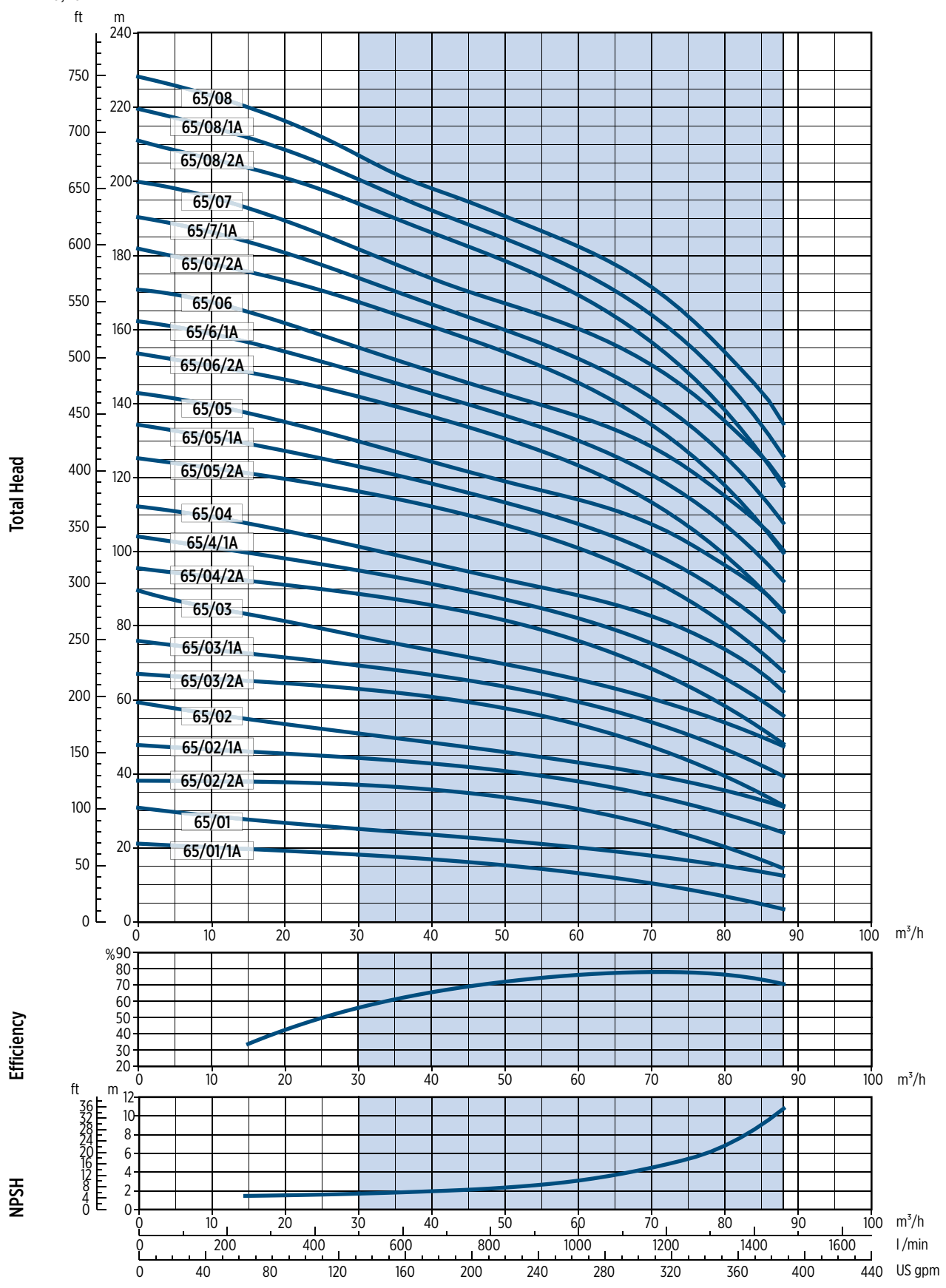
Pump model	Motor		Dimensions [mm]						Weight [kg]		
	[kW]	Dim.	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric pump
65EVR011A-FGS-T52C040-HBQE-L3	4	112	526	306	145	196	170	832	60	26,5	86,5
65EVR0100-FGS-T52C055-HBQE-L3	5,5	132	737	328	160	225	300	1065	80,5	33,6	114,1
65EVR022A-FGS-T52C075-HBQE-L3	7,5	132	829	350	160	225	300	1179	85	36	121
65EVR021A-FGS-T52C110-HBQE-L3	11	160	849	425	194	248	350	1274	88,5	59	147,5
65EVR0200-FGS-T52C110-HBQE-L3	11	160	849	425	194	248	350	1274	88,5	59	147,5
65EVR032A-FGS-T52C150-HBQE-L3	15	160	941	476	194	248	350	1417	93	68	161
65EVR031A-FGS-T52C150-HBQE-L3	15	160	941	476	194	248	350	1417	93	68	161
65EVR0300-FGS-T52C185-HBQE-L3	18,5	160	941	542	238	317	350	1483	93	104	197
65EVR042A-FGS-T52C185-HBQE-L3	18,5	160	1033	542	238	317	350	1575	97,5	104	201,5
65EVR041A-FGS-T52C220-HBQE-L3	22	180	1033	542	238	317	350	1575	97	106	203
65EVR0400-FGS-T52C220-HBQE-L3	22	180	1033	542	238	317	350	1575	97	106	203
65EVR052A-FGS-T52C300-HBQE-W3	30	200	1131	658	297	399	400	1789	105	276	381
65EVR051A-FGS-T52C300-HBQE-W3	30	200	1131	658	297	399	400	1789	105	276	381
65EVR0500-FGS-T52C300-HBQE-W3	30	200	1131	658	297	399	400	1789	105	276	381
65EVR062A-FGS-T52C300-HBQE-W3	30	200	1223	658	297	399	400	1881	109,5	276	385,5
65EVR061A-FGS-T52C370-HBQE-W3	37	200	1223	658	297	399	400	1881	109,5	283	392,5
65EVR0600-FGS-T52C370-HBQE-W3	37	200	1223	658	297	399	400	1881	109,5	283	392,5
65EVR072A-FGS-T52C370-HBQE-W3	37	200	1315	658	297	399	400	1973	113,5	283	396,5
65EVR071A-FGS-T52C370-HBQE-W3	37	200	1315	658	297	399	400	1973	113,5	283	396,5
65EVR0700-FGS-T52C450-HBQE-W3	45	225	1315	699	328	465	450	2014	116	370	486
65EVR082A-FGS-T52C450-HBQE-W3	45	225	1407	699	328	465	450	2106	120,5	370	490,5
65EVR081A-FGS-T52C450-HBQE-W3	45	225	1407	699	328	465	450	2106	120,5	370	490,5
65EVR0800-FGS-T52C450-HBQE-W3	45	225	1407	699	328	465	450	2106	120,5	370	490,5

DIMENSIONAL DRAWINGS



EVR 65 - Performance curves at 50 Hz

MEI ≥ 0,70

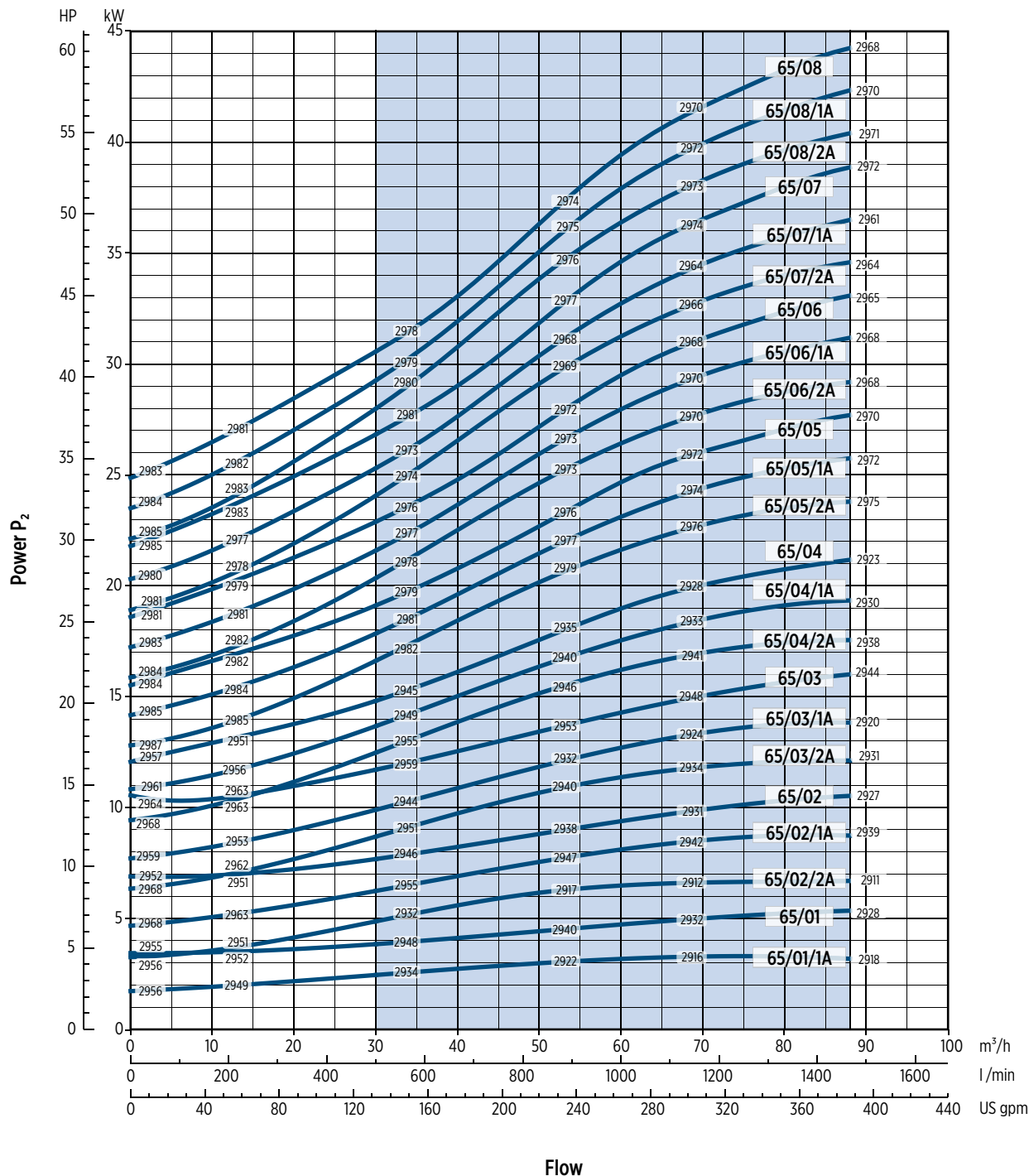


The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012012 03/2021



EVR 65 – Performance curves at 50 Hz

$$MEI \geq 0,70$$


The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

20120122 03/2021

* The efficiency value is referred to 2 or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2=Q_1 \cdot \left(\frac{n_2}{n_1}\right), \quad H_2=H_1 \cdot \left(\frac{n_2}{n_1}\right)^2, \quad P_2=P_1 \cdot \left(\frac{n_2}{n_1}\right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency

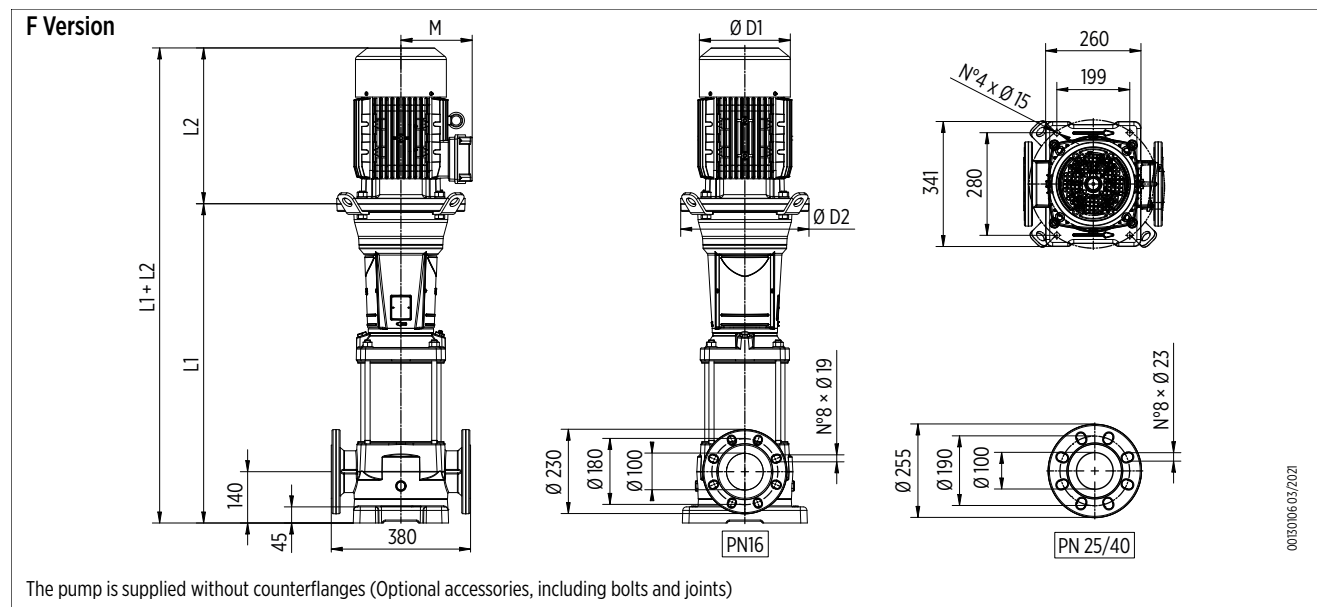


EVR 95 - 50 Hz

TECHNICAL DATA

Pump model	Motor		Dimensions [mm]							Weight [kg]		
	[kW]	Dim.	L1	L2	M	D1	D2	L1+L2	Pump	Motor	Electric pump	
95EVR011A-FGS-T52C055-HBQE-L3	5,5	132	737	328	160	225	300	1065	82	33,6	115,6	
95EVR0100-FGS-T52C075-HBQE-L3	7,5	132	737	350	160	225	300	1087	82	36	118	
95EVR022A-FGS-T52C110-HBQE-L3	11	160	849	425	194	248	350	1274	89	59	148	
95EVR0200-FGS-T52C150-HBQE-L3	15	160	849	476	194	248	350	1325	89	68	157	
95EVR032A-FGS-T52C185-HBQE-L3	18,5	160	941	542	238	317	350	1483	93	104	197	
95EVR0300-FGS-T52C220-HBQE-L3	22	180	941	542	238	317	350	1483	92,5	106	198,5	
95EVR042A-FGS-T52C300-HBQE-W3	30	200	1038	658	297	399	400	1696	99,5	276	375,5	
95EVR0400-FGS-T52C300-HBQE-W3	30	200	1038	658	297	399	400	1696	99,5	276	375,5	
95EVR052A-FGS-T52C370-HBQE-W3	37	200	1131	658	297	399	400	1789	103	283	386	
95EVR0500-FGS-T52C370-HBQE-W3	37	200	1131	658	297	399	400	1789	103	283	386	
95EVR062A-FGS-T52C450-HBQE-W3	45	225	1223	699	328	465	450	1922	109	370	479	
95EVR0600-FGS-T52C450-HBQE-W3	45	225	1223	699	328	465	450	1922	109	370	479	

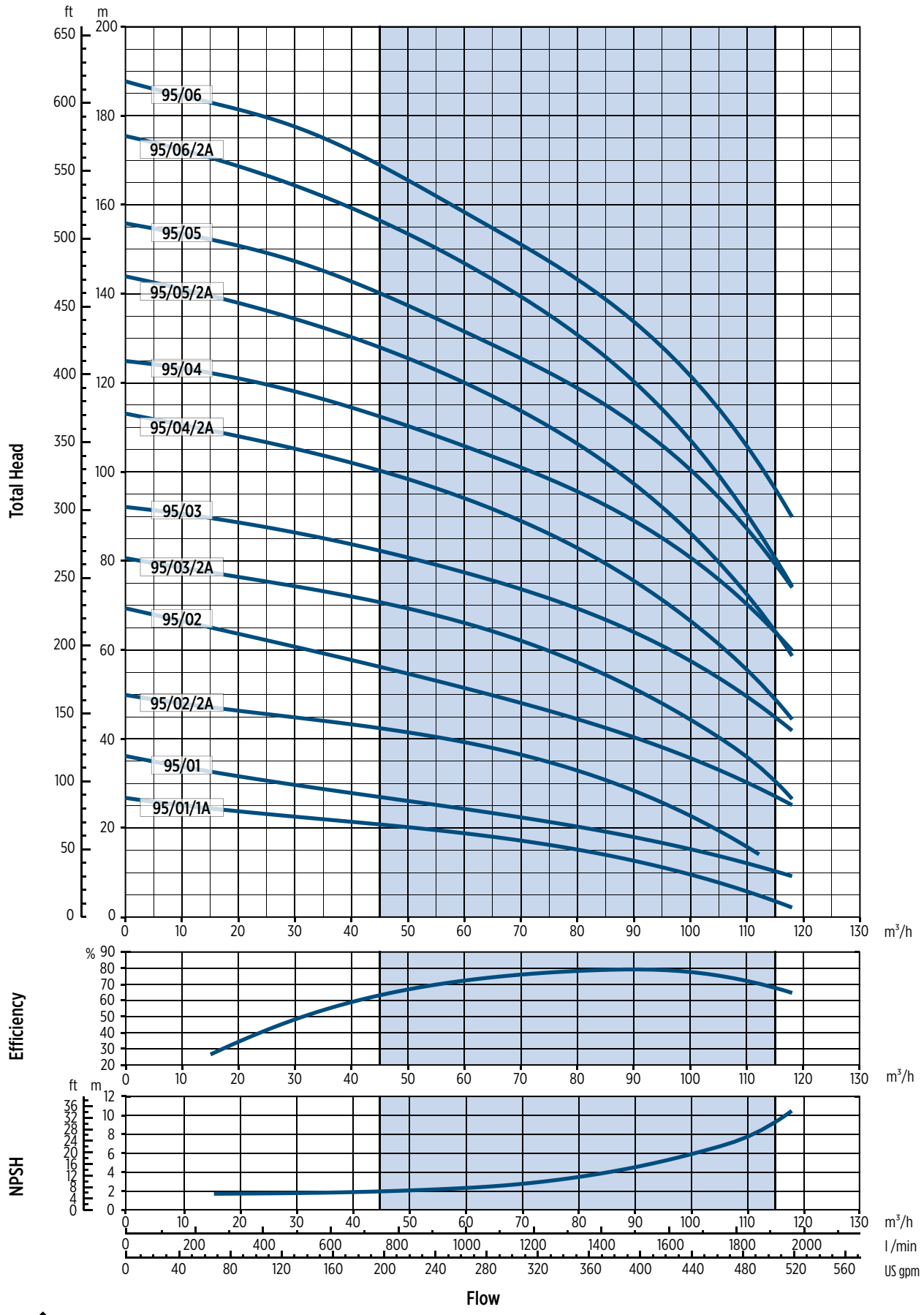
DIMENSIONAL DRAWINGS



003006.03/2021

EVR 95 - Performance curves at 50 Hz

MEI ≥ 0,70



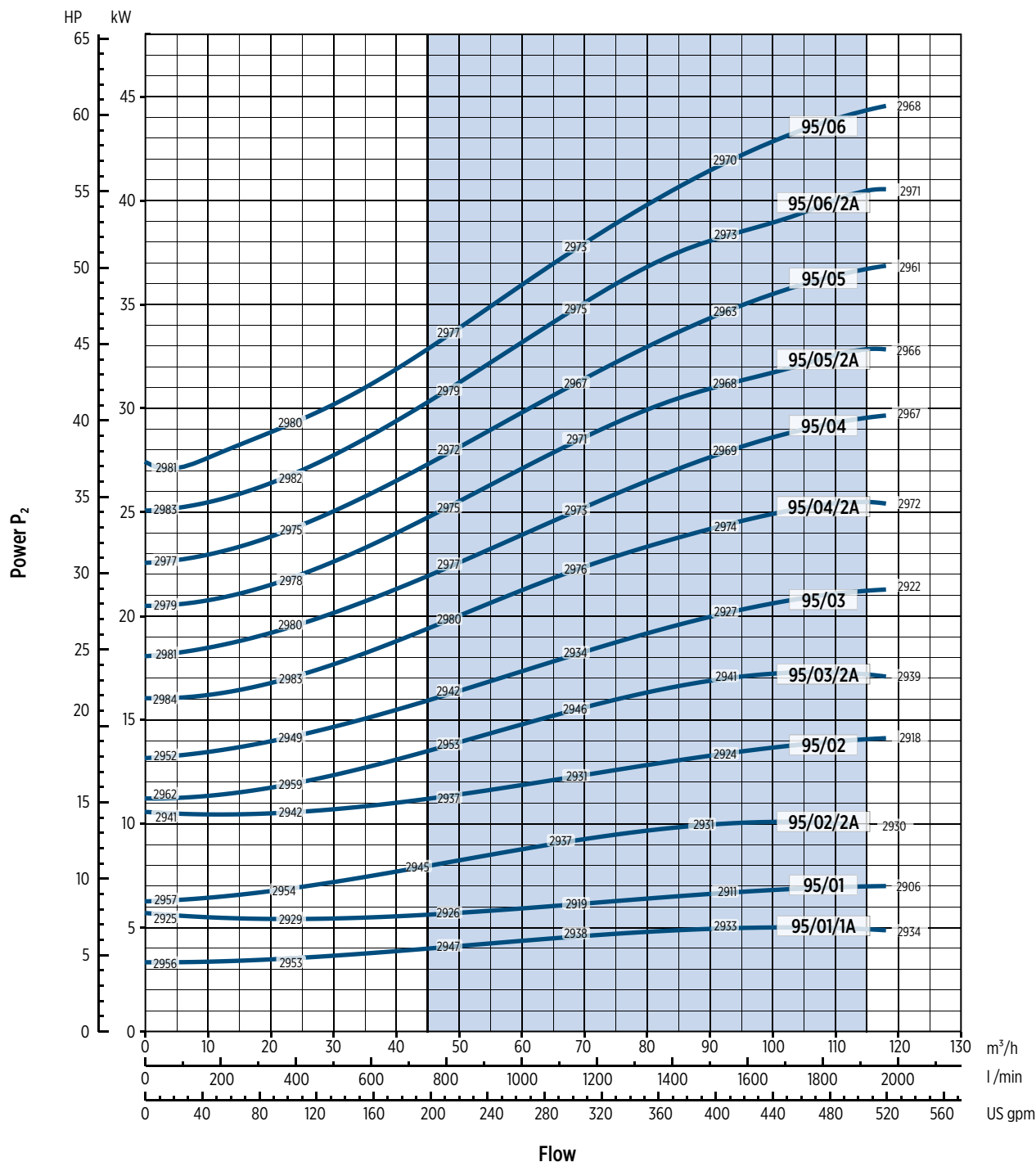
The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

0012023 03/2021



EVR 95 - Performance curves at 50 Hz

MEI ≥ 0,70



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

* The efficiency value is referred to or more stages only for full diameter impeller

Performance curves of Q, H and P depend on the rpm number according to the following formula:

$$Q_2 = Q_1 \cdot \left(\frac{n_2}{n_1} \right), \quad H_2 = H_1 \cdot \left(\frac{n_2}{n_1} \right)^2, \quad P_2 = P_1 \cdot \left(\frac{n_2}{n_1} \right)^3, \quad \eta \text{ remains approximately the same.}$$

The rpm number related to the performance curves (Q-H-P) is indicated in the power chart.

Performance curves (Q-H-P) will change according to the formulas above.

Q=Flow, H=Head, P=Power, η =Efficiency



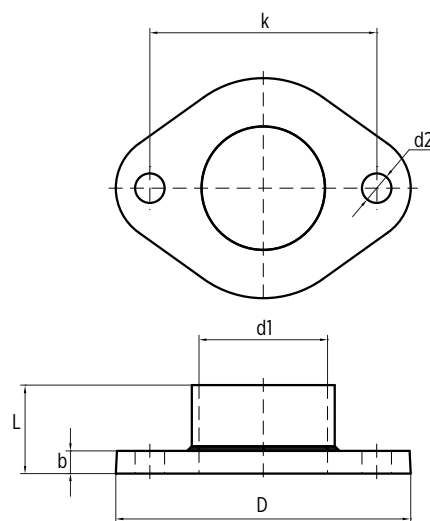
Accessories

Hydraulic connections

OVAL COUNTERFLANGES

DN	Dimensions [mm]					Holes		PN
	D	dI	k	L	b	d2	N°	
32	99	Rp 1" ¼	75	33	8	11	2	16
		NPT1" ¼						
40	130	Rp 1" ½	100	35	10	13		
		NPT1" ½						
50		Rp 2"		39				
		NPT 2"						

Kit oval counterflanges available on request: AISI 304 (EN 1.4301)



001300107 02/2018

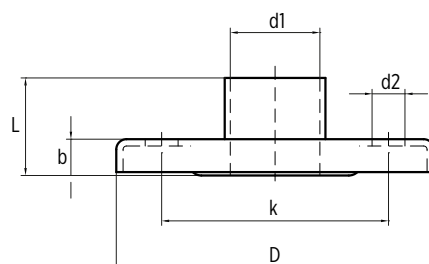
ROUND THREADED COUNTERFLANGES ACCORDING TO EN 1092-1

DN	Dimensions [mm]					Holes		PN
	D	dI	k	L	b	d2	N°	
25	115	Rp 1" NPT 1"	85	43	16	14	4	25
32	140	Rp 1" ¼ NPT 1" ¼	100			18		
40	150	Rp 1" ½ NPT 1" ½	110			19		
50	165	Rp 2" NPT 2"	127			8		
65	185	Rp 2" ½ NPT 2" ½	145	32	18	18	8	16
80	200	Rp 3" NPT 3"	160	34	20			
100	220	Rp 4" NPT 4"	180	40				

Kit round counterflanges available on request:

DN 25-32-40-50: galvanized steel, AISI 304 (EN 1.4301), AISI 316L (EN 1.4404)

DN 65-80-100: galvanized steel, AISI 316 (EN 1.4401)

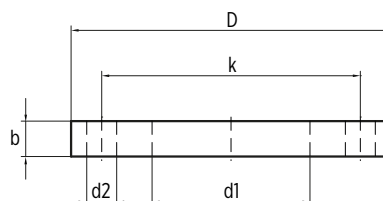


001300108 02/2018

WELD-ON ROUND COUNTERFLANGES ACCORDING TO EN 1092-1

DN	Dimensions [mm]					Holes		PN
	D	dI	k	L	b	d2	N°	
65	185	77,5	145	-	22	18	8	25/40
80	200	90,5	160		24			
100	235	116	190		26			

Kit round counterflanges available on request: AISI 316 (EN 1.4401)



001300109 02/2018

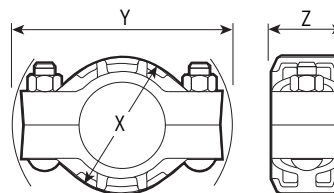
Hydraulic connections

VICTAULIC COUNTERFLANGES

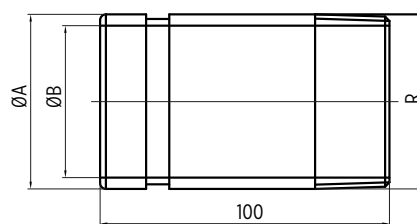
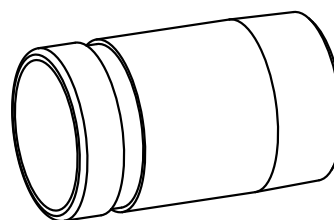
Collars			
DN	Dimensions [mm]		
	X	Y	Z
32	67	127	48
50	92	149	48

Nipple			
DN	Dimensions [mm]		
	Ø A	Ø B	R *
32	42,2	35	1" ¼
50	60,3	52,5	2" -11

* Pipe threads UNI EN 10226-1



001300247 03/2021



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High pressure kit

This is an assembly kit for a high-pressure set with two pumps. This kit facilitates a hydraulic connection between the pumps. For more information, please contact Franklin Electric.

Variable Frequency Drives (VFD)

For details on variable frequency drives, please refer to the dedicated product catalog.



Variable Frequency drives
& Accessories

Construction options

MOTORS

- With PTC sensor
- Heavy duty (for heavy application)
- 4 poles

VARIABLE FREQUENCY DRIVES (VFD)

- Installed on motor and wired

PUMPS

- Mechanical seals, wear parts, and elastomers are available in EPDM or FKM. They can be combined with SiC/graphite, SiC/SiC, or WC/WC wear parts.
- Balanced mechanical seal: the design reduces the liquid load on wear parts, thereby extending the product's lifespan.
- Optional upper thrust bearings are available for motors up to 4 kW. They protect the motor bearing from the pump's upper thrust and in case the motors do not meet the minimum requirements. The installation of the upper thrust bearing is reversible (it is always possible to switch back to the standard version or to install it).
- High-pressure pumps are reinforced design pumps with a maximum working pressure of 50 bar (only available with Victaulic connections).
- Passivated pumps are ideal for pumping corrosive liquids, such as those used in reverse osmosis systems. These pumps are available in AISI 316/CF-8M. They have a chemical treatment and special design features that provide higher corrosion resistance.

CATALOG REVISION CHANGES NOTICE

Rev. No.	Changes	Page
01	Updated EVR 1-3-6 Hydraulic connection (dimensions), T (Oval flange) / I (AISI 304 SS) version	5





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