Type Series Booklet
1798.52/6-10

Movitec B

High-pressure in-line pumps with and without speed control 50 Hz

Movitec VME 2/6 Movitec VF 6/18 PD Movitec VCF 6/6 Movitec VSF 90/3

Applications

Movitec VC/V/VS /-PD are used for general water supply, spray irrigation, irrigation and pressure boosting duties, for warm water, hot water and cooling water recirculation, condensate transport, boiler feed circuits, domestic water supply systems, washing plants, water treatment and filter systems, degreasing baths/alkaline cleaning agents, alkaline solutions and oils/emulsions, fire-fighting systems, as well as for reverse osmosis and surface treatment applications.

Design

Pump

Multistage, vertical (horizontal installation see page 7) high-pressure centrifugal pump, with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design).

Drive

Without speed control

Electric motor, 50 Hz, air-cooled, 2-pole and 4-pole, standard KSB motor with PTC thermistors, efficiency class IE2 (from 0.75 kW), with main dimensions to IEC. Other motor makes subject to prior consultation with KSB.

With PumpDrive speed control system

Enhanced with PumpDrive, a Movitec pump together with the appropriate sensors is turned into an intelligent, variable speed pumping system, ideal for both single-pump operation and multiple pump configurations with up to six pumps (see type series booklet PumpDrive 4070.5).

Short designation

Movitec V (M) C F 4 / 3 PD

- Type series
- Motor design
  - ( ) = long-coupled
  - M = close-coupled [1])
- Material variant
  - C = Grey cast iron/stainless steel
  - ( ) = Stainless steel 1.4301
  - S = Stainless steel 1.4404
- Line connection
  - ( ) = Oval flange
  - E = External thread
  - F = Round flange
  - V = Victaulic coupling
  - T = Triclamp coupling
- Size
- Number of stages
- PumpDrive

[1]) Not in combination with material variant C, sizes 2, 4, 6 only

Operating data

Flow rate	Q	up to 112.8 m^3/h (31 l/s)
Head	H	up to 249 m
Operating pressure	p_d	up to 40 bar [2])
Operating temperature	t	–20 °C to +140 °C [3])

[2]) The sum of inlet pressure and shut-off head must not exceed the value indicated.

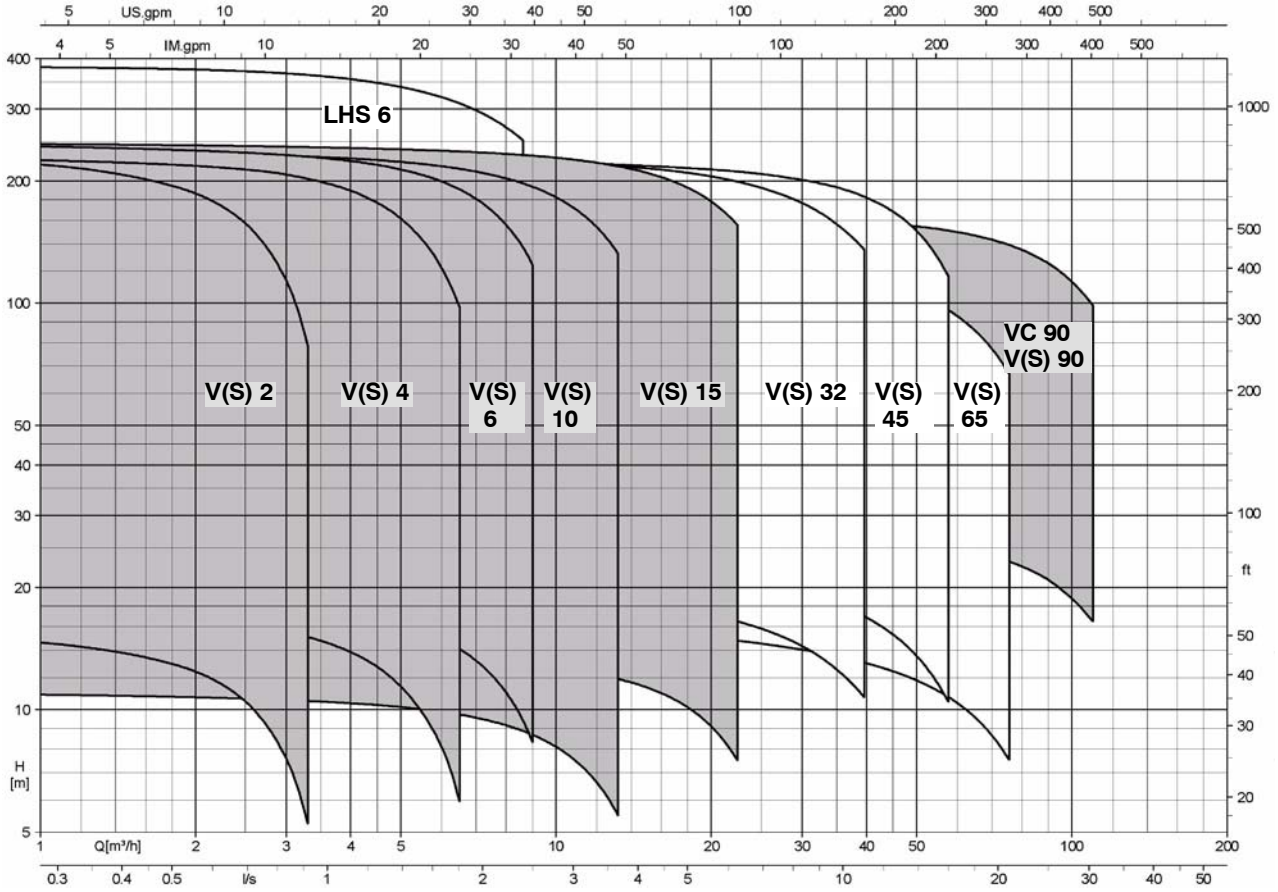
[3]) Standard: –20 °C to +120 °C

Conformity mark

CE (all pumps),
ACS and WRc as standard for Movitec V
ATEX Group II, Categories 2 and 3 on request (not for Movitec PD)

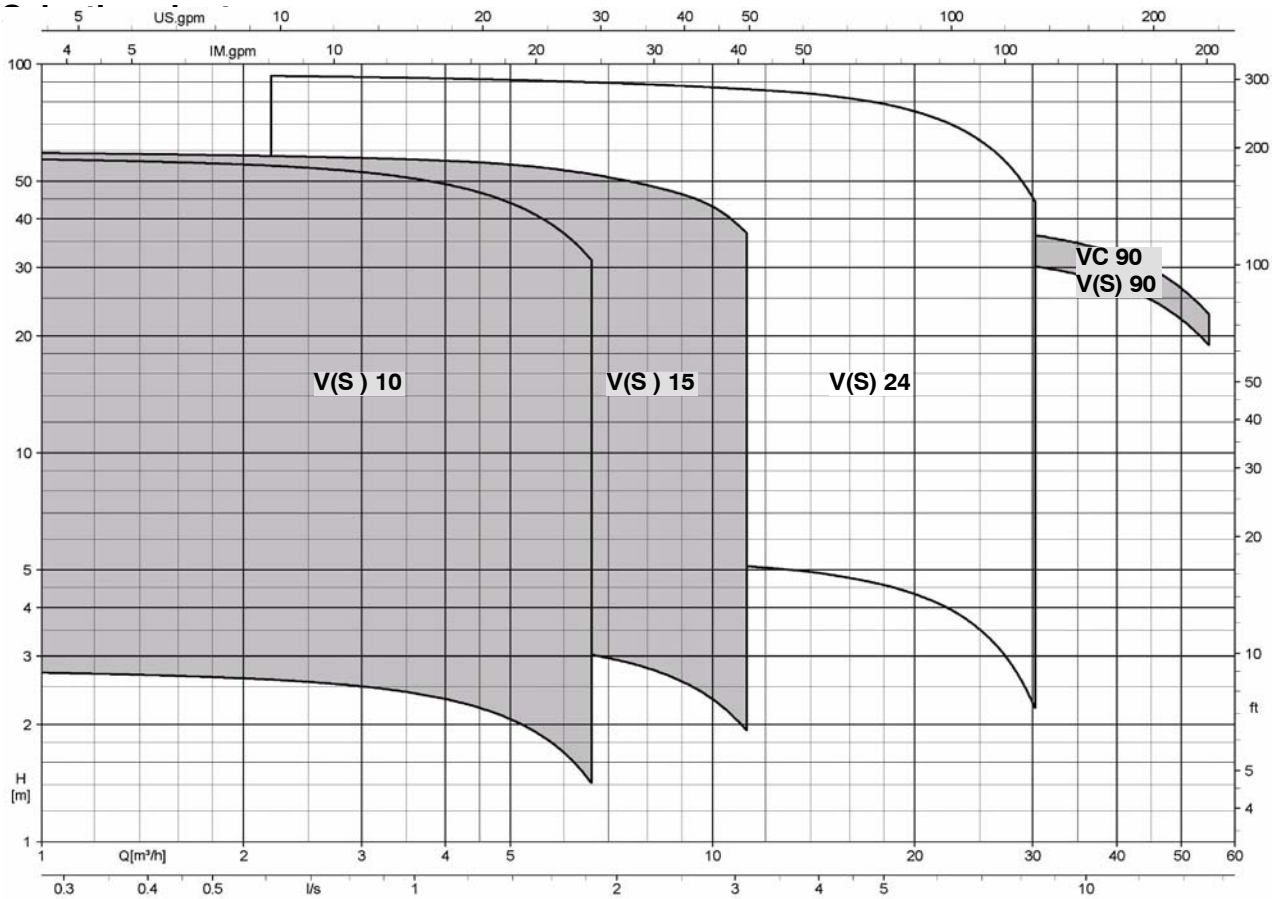
Selection charts

n ≈ 2900 1/min



Movitec 32, 45, 65 and LHS see separate type series booklet Movitec A, reference No. 1798.5-10

n ≈ 1450 1/min



Materials

Part No.	Description	Material		
		Movitec VC	**Movitec V**	**Movitec VS**
101	Pump casing	JL 1040	1.4308	1.4408
108	Stage casing	1.4301 [3]) / 1.4308 [4])		1.4404 [3]) / 1.4408 [4])
160	Discharge cover	1.4301 [3])	1.4301 [3]) / 1.4308 [4])	1.4404 [3]) / 1.4408 [4])
10-6	Pump shroud	1.4301		1.4404
210	Shaft	1.4057		1.4460
230	Impeller	1.4038 [3]) / 1.4308 [4])		1.4404 [3]) / 1.4408 [4])
341	Motor stool	JL 1040		
412	O-ring	EPDM	EPDM-WRc / ACS / ACS	VITON / HNBR [2])
525	Spacer sleeve	1.4301		1.4401
529	Bearing sleeve	Tungsten carbide		
[1])	Bearing sleeve	Aluminium oxide		
890	Baseplate	-	JS 1030 / JL 1040 [1]) / 1.4308 [2])	
905	Tie bolt	1.4057		
920	Nut	1.4301		1.4404
932	Circlip	1.4571		

[1]) Permanently connected with stage casing 108 or diffuser 171
[2]) On model with round flange
[3]) Movitec 2, 4, 6
[4]) Movitec 90

Key to materials

Description	Code and material No.	Standard	to ASTM
Grey cast iron	JL1040 / GJL-250	EN 1561	A48:40B
Chrome nickel steel	1.4301 / X5CrNi18-10	EN 10088	A276:304
	1.4057+QT800 / X17CrNi16-2-QT800	EN 10088-3	A276:431
	1.4401 / X5CrNiMo 17-12-2	EN 10088	A276:316
	1.4308 / GX5CrNi 19-10	EN 10283	A743:CF8
Chrome nickel molybdenum steel	1.4404 / X2CrNiMo 17-12-2	EN 10088	A276:316L
	1.4571 / X6CrNiMoTi17-12-2	EN 10088	A276:316
	1.4460 / X3CrNiMo N27-5-2	EN 10088	
Carbon chrome nickel molybdenum steel	1.4408 / GX5CrNiMo19-11-2	EN 10213	A743CF8M

Please note: Information on material designations to ASTM/AISI is not binding.

Bearings

All pumps are equipped with tungsten carbide plain bearings at the hydraulic rotor.

Shaft seal

Single, uncooled mechanical seal in accordance with EN 12756.

Material codes

Mechanical seal	Description	Code letter to EN 12756	Material
	Primary ring	Q1 U3	Silicon carbide (sintered without pressure) Tungsten carbide (CrNiMo binder)
	Mating ring	B U3 A	Hard carbon, resin-impregnated Tungsten carbide (CrNiMo binder) Carbon graphite, antimony impregnated
	Elastomer	E V X4	EPDM (ethylene propylene rubber) Fluoroelastomer (Viton) HNBR
	Spring	G	CrNiMo steel
	Other metal parts	G	CrNiMo steel
	Code number 13 14 15 16 18 20 21 22 23	Q1BEGG-WRc Q1BVGG U3U3X4GG U3U3VGG U3BEGG Q1AEGG Q1AVGG Q1AX4GG Q1BEGG	Silicon carbide / Hard carbon / EPDM WRc Silicon carbide / Hard carbon / Viton Tungsten carbide / Tungsten carbide/ HNBR Tungsten carbide / Tungsten carbide/ Viton Tungsten carbide / Hard carbon / EPDM Silicon carbide / Hard carbon / EPDM 559236 Silicon carbide / Hard carbon / Viton Silicon carbide / Hard carbon / HNBR Silicon carbide / Hard carbon / EPDM

Pressure and temperature limits

Fluid temperature t [3]	Flange design/connection	Material variant	Max. operating pressure p_s [1]	Code number of mechanical seal	
				Standard	**Optional**
– 20 °C to + 120 °C	F = Round flange [2]	Movitec VC	16/25 bar [5]	23	13, 14, 15, 16, 18
	All line connection variants [6]	Movitec V		13	14, 15, 16, 18
		Movitec VS		14	13, 15, 16, 18
– 20 °C to + 140 °C	F = Round flange [2]	Movitec VC	16/40 bar [6]	20 [4]	–
	All line connection variants [6]	Movitec V		21 [4]	–
		Movitec VS		22 [4]	–

1) The sum of inlet pressure and shut-off head must not exceed the value indicated.
2) Drilled to EN 1092-1 / 1092-2 PN 25 (optional: ASME B 16.1 Class 250 or JIS B2238 16K)
3) Subject to special application limits (see List of Fluids Handled)
4) Cartridge seal
5) Depending on line connection variant
6) 120 to +140 °C: PN 16

Detailed product designation

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
M	**o**	**v**	**i**	**t**	**e**	**c**	**V**		**F**	**0**	**0**	**6**	/	**0**	**6**	**1**	**B**	**1**	**A**	**1**	**3**	**E**	**0**	**0**	**1**	**3**	**2**	**5**	**A**	**A**	**X**
M	**o**	**v**	**i**	**t**	**e**	**c**	**V**		**F**	**0**	**0**	**6**	/	**0**	**6**	**1**	**B**	**3**	**A**	**1**	**3**	**E**	**S**	**0**	**0**	**3**	**2**	**5**	**A**	**A**	**X**
Pump name							Pump version		Connection standard	Size				Number of stages		Number of trimmed impellers	Generation	Connection version	Material variant	Seal code		Design type of mech. seal	Drive - Standard / Type	Motor rating and no. of poles				Mains frequency	Motor voltage	PumpMeter	Off-standard design

Pump name (1 - 7)	**M**	**o**	**v**	**i**	**t**	**e**	**c**	=	Movitec

Pump version (8 + 9)	V	-			=	1.4301
	V	C			=	1.4301/GG
	V	M			=	1.4301/close-coupled
	V	S			=	1.4401/1.4404
Connection version (10)	-				=	Oval flange
	E				=	External thread
	F				=	Round flange
	V				=	Victaulic coupling
	T				=	Tri-clamp coupling
Size (11 - 13)	0	0	2		=	Size 2
	0	0	4		=	Size 4
	0	0	6		=	Size 6
	0	1	0		=	Size 10
	0	1	5		=	Size 15
	0	9	0		=	Size 90
Number of stages (15 + 16)	0	1			=	1 stage
	0	2			=	2 stages
	0	3			=	3 stages
	0	4			=	4 stages
	0	5			=	5 stages
	0	6			=	6 stages
	0	7			=	7 stages
	0	8			=	8 stages
	0	9			=	9 stages
	1	0			=	10 stages
	1	1			=	11 stages
	1	2			=	12 stages
	1	3			=	13 stages
	1	4			=	14 stages
	1	5			=	15 stages
	1	6			=	16 stages
	1	7			=	17 stages
	1	8			=	18 stages
	1	9			=	19 stages
	2	0			=	20 stages
	2	1			=	21 stages
	2	2			=	22 stages
	2	4			=	24 stages
	2	6			=	26 stages
	2	8			=	28 stages
	3	0			=	30 stages
Number of trimmed impellers (17)	-				=	No trimmed impeller
	1				=	1 trimmed impeller
	2				=	2 trimmed impellers
Generation (18)	A				=	Old generation
	B				=	New generation

Connection standard (19)	0				=	Vitaulic / No standard
	1				=	EN 1092
	2				=	ASME B16.1
	3				=	JIS B2238
	4				=	EN ISO 228-1
	5				=	ASME B16.5 Oval flange
	6				=	DIN 32676
	7				=	EN ISO 228-1
	8				=	ISO 7-1
	9				=	ASME B16.5 Round flange
Material variant (20) Casing - Flange - Baseplate	A				=	304 - JL 1040 - JL 1040
	B				=	304 - JL 1040 - 304
	C				=	304 - JL 1040 - JS 1030
	D				=	304 - JS 1030 - JL 1040
	E				=	304 - JS 1030 - 304
	F				=	304 - 304 - JL 1040
	G				=	304 - 304 - JS 1030
	H				=	304 - 304 - 304
	K				=	304 - 316 - JS 1030
	L				=	304 - 316 - JL 1040
	M				=	304 - 316 - 304
	N				=	316 - JS 1030 - JL 1040
	O				=	316 - JS 1030 - 304
	P				=	316 - 304 - JL 1040
	Q				=	316 - 304 - 304
	R				=	316 - 316 - JL 1040
	S				=	316 - 316 - JS 1030
	T				=	316 - 316 - 304
	U				=	JL 1040-JL 1040-JL 1040
Seal code (21 + 22)	1	3			=	Q1BEGG-WRC-EPDM-WRC
	1	4			=	Q1BVGG-Viton
	1	5			=	U3U3X4GG-HNBR
	1	6			=	U3U3VGG-Viton
	1	7			=	U3BEGG-EPDM
	2	0			=	Q1AEGG-EPDM
	2	1			=	Q1AVGG-Viton
	2	2			=	Q1AX4GG-HNBR
	2	3			=	Q1BEGG
Design type of mech. seal (23)	F				=	"Fixed" design
	E				=	"Easy Access" design
	C				=	"Cartridge" design
Drive standard / Type (24)	P				=	with PumpDrive
	A				=	ATEX IEC
	S				=	Standard IEC
	N				=	NEMA standard
	0				=	without motor

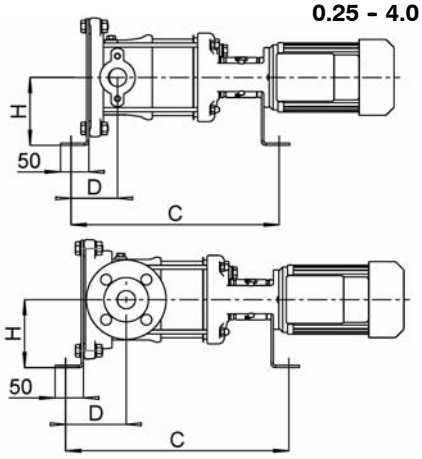
Moto rating and number of poles (25 - 28)	**P, A, S, N motors**					
	0	0	3	2	=	0.37 kW, 2-pole
	0	0	5	2	=	0.55 kW, 2-pole
	0	0	7	2	=	0.75 kW, 2-pole
	0	1	1	2	=	1.1 kW, 2-pole
	0	1	5	2	=	1.5 kW, 2-pole
	0	2	2	2	=	2.2 kW, 2-pole
	0	3	0	2	=	3.0 kW, 2-pole
	0	4	0	2	=	4.0 kW, 2-pole
	0	5	5	2	=	5.5 kW, 2-pole
	0	7	5	2	=	7.5 kW, 2-pole
	1	1	0	2	=	11.0 kW, 2-pole
	1	5	0	2	=	15.0 kW, 2-pole
	1	8	5	2	=	18.5 kW, 2-pole
	2	2	0	2	=	22.0 kW, 2-pole
	3	0	0	2	=	30.0 kW, 2-pole
	3	7	0	2	=	37.0 kW, 2-pole
	4	5	0	2	=	45.0 kW, 2-pole
	0	1	3	2	=	1.3 kW, 2-pole
	0	1	9	2	=	1.85 kW, 2-pole
	0	2	5	2	=	2.5 kW, 2-pole
	0	3	3	2	=	3.3 kW, 2-pole
	0	4	6	2	=	4.6 kW, 2-pole
	1	0	0	2	=	10.0 kW, 2-pole
	1	2	5	2	=	12.5 kW, 2-pole
	2	0	0	2	=	20.0 kW, 2-pole
	2	4	0	2	=	24.0 kW, 2-pole
	2	8	0	2	=	28.0 kW, 2-pole
	3	8	0	2	=	38.0 kW, 2-pole
	0	0	2	4	=	0.25 kW, 4-pole
	0	0	3	4	=	0.37 kW, 4-pole
	0	0	5	4	=	0.55 kW, 4-pole
	0	0	7	4	=	0.75 kW, 4-pole
	0	1	1	4	=	1.1 kW, 4-pole
	0	1	5	4	=	1.5 kW, 4-pole
	0	2	2	4	=	2.2 kW, 4-pole
	0	3	0	4	=	3.0 kW, 4-pole
	0	4	0	4	=	4.0 kW, 4-pole
	0	5	5	4	=	5.5 kW, 4-pole
	0	7	5	4	=	7.5 kW, 4-pole

Moto rating and number of poles (25 - 28) cont.	**without motor**					
	0	0	7	1	=	IEC 071
	0	0	8	0	=	IEC 080
	0	0	9	0	=	IEC 090S/L
	0	1	0	0	=	IEC 100L
	0	1	1	2	=	IEC 112M
	0	1	3	2	=	IEC 132S/M
	0	1	6	0	=	IEC 160M/L
	0	1	8	0	=	IEC 180M/L
	0	2	0	0	=	IEC 200L
	0	2	2	5	=	IEC 225M
	0	0	5	6	=	NEMA 58c
	0	1	4	3	=	NEMA 143TC
	0	1	4	5	=	NEMA 145TC
	0	1	8	2	=	NEMA 182TC
	0	1	8	4	=	NEMA 184TC
	0	2	1	5	=	NEMA 215TC
	0	2	5	6	=	NEMA 256TC
	0	2	8	4	=	NEMA 284TSC
	0	2	8	6	=	NEMA 286TSC
	0	3	2	4	=	NEMA 324TSC
	0	3	2	6	=	NEMA 326TSC
	0	3	6	4	=	NEMA 364TSC
Mains frequency (29)	5				=	50 Hz
	6				=	60 Hz
Motor voltage (30)	A				=	230/400 V - IE1
	B				=	400/690 V - IE1
	C				=	230/400 V - IE2
	D				=	400/690 V - IE2
	E				=	EXM IEC - DP
	F				=	EXM IEC - TBH
	G				=	EXM NEMA
	J				=	400/690 V - IE 2
	K				=	EXM IEC - Movitec
	L				=	400/690 V - IE 2/PDX
	M				=	230 V - single-phase
PumpMeter (31)	A				=	with PumpMeter
	W				=	without PumpMeter
Off-standard design (32)	X				=	One or several components in off-standard design

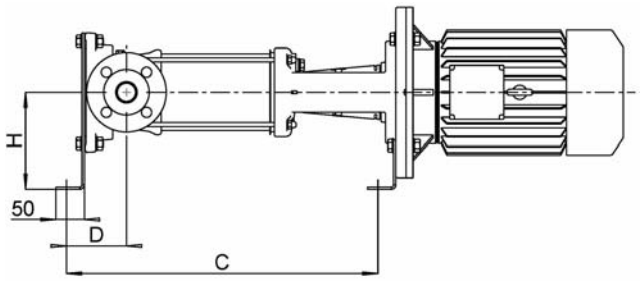
Horizontal installation

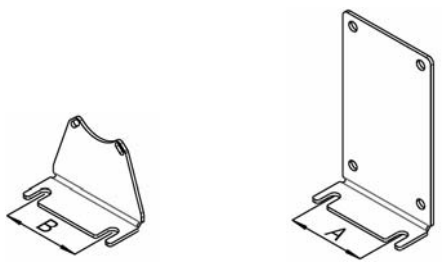
Movitec (motor ratings up to 7.5 kW) can be installed horizontally in systems where the installation conditions do not allow vertical installation.

0.25 - 4.0 kW

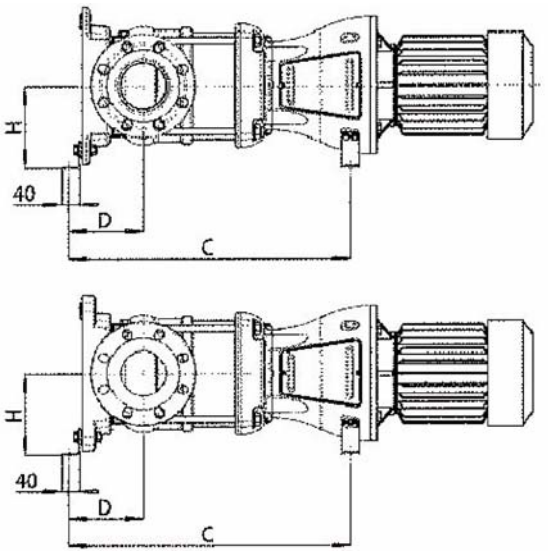


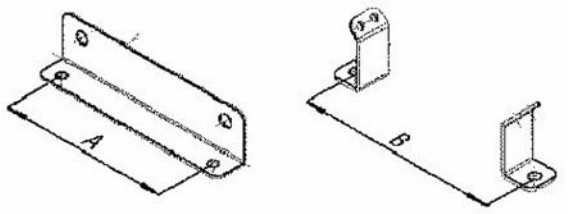
5.5 - 7.5 kW





Motor flange and pump brackets Movitec B





Motor flange and pump brackets Movitec B 90

Dimensions in mm

Motor rating [kW]	C [mm]	D [mm]	H [mm]	A [mm]	B [mm]	Ident. No. of set [1]
Movitec 2, 4, 6						
0.37/0.55 2-pole	F2 +49	V = 82 VF = 107	120	100	100	48 895 741
0.75/1.1 2-pole	F2 +49		120	100	100	48 895 742
1.5/2.2 2-pole	F2 +47		120	100	100	48 895 743
3.0/4.0 2-pole	F2 +47		120	100	100	48 895 744
5.5/7.5 2-pole	F2 -18		170	100	210	48 895 745
Movitec 10, 15						
0.75-1.1 2-pole 0.55-0.75 4-pole	F2 +49	V/VF10/ V15 = 111.5 V15 = 121.5	140	130	130	01 338 571
1.5-2.2 2-pole 1.1-1.52 4-pole	F2 +47		140	130	130	01 338 572
3.0/4.0 2-pole 2.2-4.0 4-pole	F2 +47		140	130	130	01 338 573
5.5/7.5 2/4-pole	F2 -18		170	130	210	01 338 577
Movitec 90						
5.5/7.5 2/4-pole	F2 -16	V = 82 VF = 107	180	210	250	48 895 593

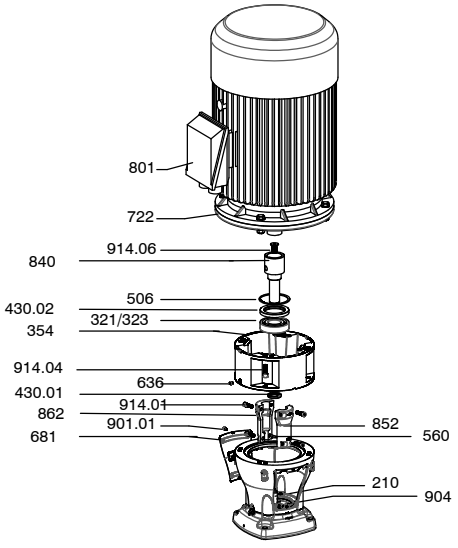
[1]) Not possible for Movitec PumpDrive

The set for horizontal installation includes 3 stainless steel holding brackets and the required fasteners.

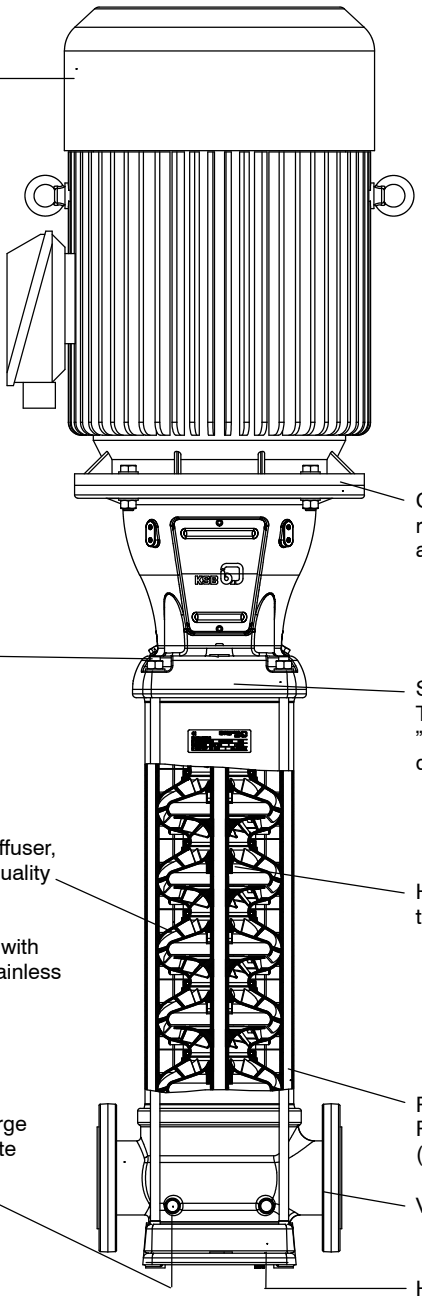
Foundation bolts must be supplied by the operator.

Thrust bearing housing for standardised IEC motors

For motor ratings of 5.5 kW and above, a special thrust bearing housing is available for using any standardised IEC motor.



Design features of Movitec B



Maintenance-free electric motor
Multi-range voltage/frequency
Enclosure IP 55
Thermal class F
Efficiency class IE2
High levels of efficiency

Optional thrust bearing housing (available for motor ratings of 5.5 kW and above) enables installation of any standardised IEC motor

Straightforward commissioning and servicing; vent plug and pressure gauge connection (G $^{3}/_{8}$")
Two separate screw plugs for venting and/or measurement

Service-friendly and durable shaft seals:
Three designs available:
"Fixed" design, "Easy Access" design, "Cartridge" design

All wetted components (e.g. impeller, diffuser, shaft and pump shroud) made of high-quality corrosion-proof stainless steel.

Cast-iron pump casing in in-line design with cataphoretic coating (Movitec VC) or stainless steel pump casing (Movitec V/VS)

High operating reliability due to product-lubricated tungsten carbide plain bearings

Robust design
Reinforced pump shroud made of stainless steel (PN 40)

Two drain plugs (on suction and discharge side) for connection of sensors, complete drainage, connection of by-pass

Various line connection options

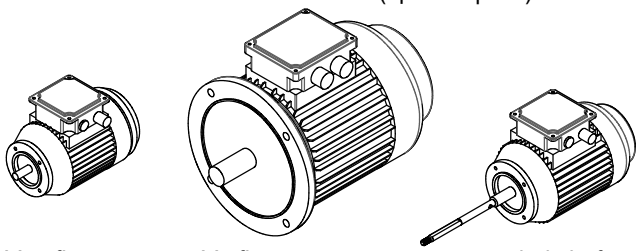
Heavy-duty baseplate,
powder coated (100 µm),
also available in stainless steel

Casing
Pump casing with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design).
Movitec VC: Pump casing made of grey cast iron
Movitec V/VS: Pump casing made of stainless steel and baseplate made of powder-coated grey cast iron.

Shaft seal
The shaft seal is an uncooled, maintenance-free mechanical seal to EN 12756.
Three designs are available:
- **Fixed** design (code FX)
  Standard mechanical seal design, non-balanced bellows-type mechanical seal,
  max. 25 bar, can be used on Movitec 2, 4, 6, 10 and 15
- **Easy Access** design (code AC)
  Easy-to-replace, non-balanced bellows-type mechanical seal,
  max. 25 bar, can be used on Movitec 2, 4, 6, 10, 15 and 90.
  Motor stool need not be removed for seal replacement.
  Motor rating 5.5 kW and above: Motor need not be removed.
- **Cartridge** design (code CT)
  Cartridge-type seal, available in
  non-balanced bellows-type design (PN 25) or
  specially balanced PN 40 design.
  Can be used for Movitec 2, 4, 6, 10, 15 and 90.
  Motor stool need not be removed for seal replacement.
  Motor rating 5.5 kW and above: Motor need not be removed.

Drive
Standard for VC/V/VS:
- Electric motor, efficiency class IE2, 50 Hz, air-cooled, 2-pole and 4-pole, KSB standard motor with main dimensions to IEC. Other motor makes after prior consultation with KSB,
  220–240 V/380–420 V,
  380–420 V/660–725 V,
  enclosure IP 55,
  thermal class F,
  type of construction V18/V1 and close-coupled design (extended shaft),
  from 3 kW with PTC thermistor as standard

Approved variants:
- Explosion-proof motor II 2 G Eexd/Eexe T3/T4,
  type of construction V1/V18, make to KSB's choice.
- Motor for 500 V mains voltage, type of construction V1/V18, motor make on request.
- Motor make to customer's choice (upon request).



V18 flange V1 flange extended shaft

Direction of rotation:
Clockwise, viewed from the drive end (see rotation arrow on motor stool).

Coupling:
- Movitec 2, 4, 6, 10, 15, 90: rigid coupling
- Movitec 2, 4, 6: close-coupled design
- The couplings comply with the EC Machinery Directive.

Installation
Vertical installation (horizontal installation see page 7).

Coating
Movitec VC:
Pump casing made of grey cast iron with cataphoretic paint coat.
Movitec V/VS:
Powder-coated grey cast iron motor stool and baseplate. Grey cast iron sliding flanges protected by cataphoretic coating.
All pumps: Stainless steel parts without additional protective coating.

Tests/Inspections
Standard:
Pressure test to EN 809
Leak test with water

Possible variant (on request):
Hydraulic test evidenced by test report. This test is always carried out using the original motor.
The NPSH and the suction head are not measured (3.2 certificate available).

Materials testing
Certificate of compliance with the order (corresponds to EN 10 204)
In the certificate of compliance with the order the manufacturing or processing works confirms by way of an informal report without specifying test results that the delivery complies with the stipulations of the purchase order (certificate to 2.2 and 3.1 available upon request).

Characteristic curves [1]
The characteristic curves are based on the following principles:

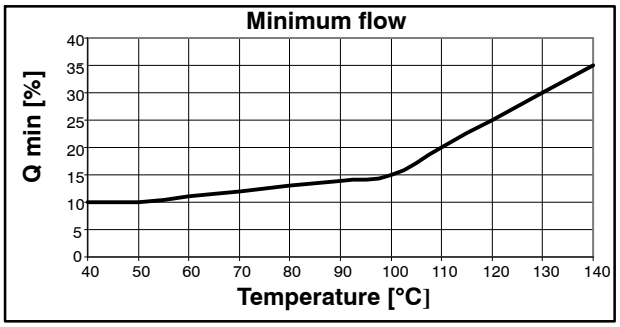
- Tolerances to ISO 9906 Class 2/Annex A
- Measurements are made with standardised KSB motors with integrated frequency inverters [2]
- The characteristic curves were obtained with deaerated water at a temperature of 20 °C and a density of 1.0 kg/dm^3 [2]
- The characteristic curves are valid for a kinematic viscosity of 1 mm^2/s (1 cst) [2]
- The pump is designed to give optimum performance at the point of best efficiency (Q_{opt}). This means:
- **Recommended operating range: 0.50 to 1.20 of Q_{opt}** [1]
- A minimum flow must be maintained to prevent the pump from overheating.

Movitec	Q_{min} in m^3/h
2	0.2
4	0.4
6	0.6
10	1.0
15	1.5
90	9.0

[1] See example on page 10

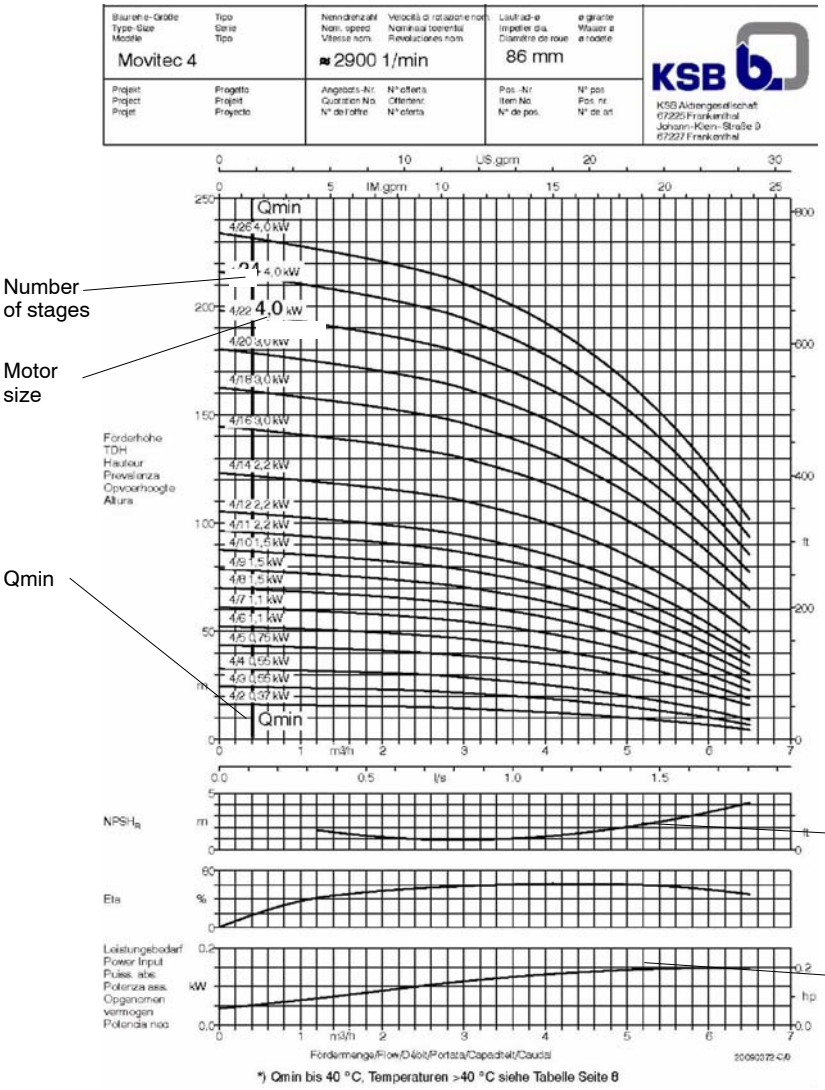
[2] In case of different parameters, the performance data must be corrected accordingly.

The following curve shows the minimum flow, corresponding to a percentage of the optimum flow Q_{opt} (flow rate at best efficiency point), as a function of the temperature of the fluid pumped.



- Maximum pressure at the discharge nozzle:
  40 bar – head at zero flow point with round flange
- **NPSH**
  The NPSH values given in the individual characteristic curves are minimum values which correspond to the cavitation limit. They refer to deaerated water.
  A safety allowance of at least 0.5 m must be added when selecting the pump to compensate for measuring inaccuracies and minor manufacturing deviations. The NPSH curve reflects mean values.

Selection example for pump set without speed control



NPSH required. A safety allowance of 0.5 m must be added to the NPSH value of the characteristic curve when selecting the system.

Power input per stage at a density ρ = 1 kg/dm^3

The pumps are optionally available with the PumpDrive speed control system.
PumpDrive features:

Functions	PumpDrive ...	
	Basic	Advanced
Protective functions		
Thermal motor protection by PTC thermistors	■	■
Electrical motor protection by overvoltage/undervoltage monitoring	■	■
Dynamic overload protection by speed limitation (i^2t control)	■	■
Dry running protection		■
Minimum flow stop		■
Characteristic curve control (Q_{min}, Q_{max})		■
Open-loop control		
Open-loop operation via specified setpoint	■	■
User-definable speed (0 to 70 Hz)	■	■
Stand-by mode (stop at minimum speed after a defined period of time)	■	■
Programmable start and stop ramps	■	■
Slave in multiple pump configuration with up to 6 pumps	■	■
Master in multiple pump configuration with up to 6 pumps		■
Parameterisable H/Q/P curves		■
Closed-loop control		
Closed-loop operation via integrated, programmable PI controller	■	■
Differential pressure control	■	■
Level control	■	■
Temperature control	■	■
Flow control	■	■
Dynamic pressure setpoint compensation	■	■
Commissioning		
Plug & run	■	■
Automatic sensor recognition (when frequency inverter is started)	■	■
Operation		
3 LEDs (OK, warning and alert)	■	■
Control panel (optional), rotatable 180°	■	
Control panel, rotatable 180°		■
Monitoring		
Fault history	■	■
Energy meter (kWh)	■	
Operating hours counter (motor, FI)	■	■
Energy savings meter (kWh)		■
Communication		
Profibus field bus system	■	■
LON field bus system	■	■
RS 232 service interface	■	■
Installation		
CM: in control cabinet IP 21	■	■
MM: with adapter on motor, IP 55	■	■
WM: wall-mounted IP 55	■	■
Functional enhancements (planned)		
Sensorless flow rate estimation		■
Sensorless closed-loop control		■

PumpDrive

Standard functions:
- Diagnostic LEDs signal operation, overload or fault
- Increased starting torque
- Pump-specific[1]) minimum and maximum speeds
- Two isolated analog inputs for standard signals / live-zero yes/no [1])
- Automatic restart after automatic safety tripping yes / no[1])
- Three restarting attempts within 3 seconds each [1])
- Modes of operation: open-loop control/differential pressure control by integrated PI controller with automatic detection
- Direction of rotation: anti-clockwise/clockwise [1])
- External standard signal 0/2 – 10 V / 0/4 – 20 mA
- General fault message contact (240 V AC, max. 1 A)
- Pump is stopped when flow rate falls below a minimum value
- Setpoint specified via motor potentiometer function

1) With optional control panel

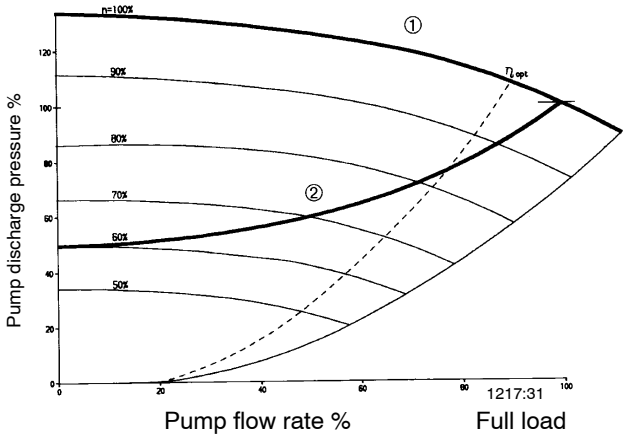
Protective functions:
- Electronic overcurrent trip
- Integrated EMC (electromagnetic compatibility) filter, class B $\leq$7.5 kW, class A $\geq$11 kW
- Automatic overload control
- Thermal overload control
- Full motor protection by PTC thermistors
- Undervoltage/overvoltage protection
- Phase short-circuit protection
- Earth fault current protection
- Dry running protection
- Start/Stop via digital input
- No motor protection or mains switch required

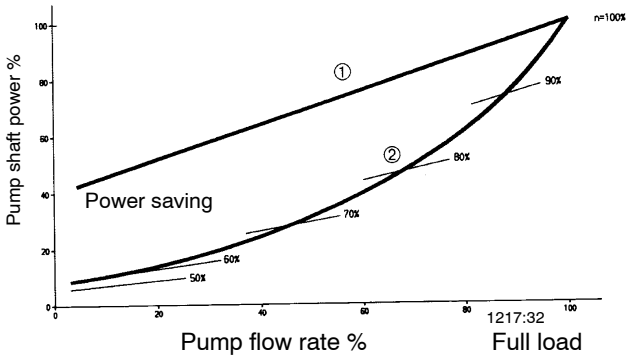
For details please refer to type series booklet PumpDrive 4070.5-10

Example: Differential pressure control

Control task:

Maintaining the differential supply pressure even with changing operating conditions and interferences.





η_{opt} : optimum pump efficiency curve

① Pump curve for fixed-speed operation (n = 100 %)

② Pump curve for variable-speed operation (n = variable)

Motor rating kW	**Nominal speed** 50 Hz
0,37 – 0,55	2800
0,75 – 2,2	2880
3 – 4	2920
5,5 – 7,5	2940
11 – 22	2950
30 – 45	2960

Pump performance

A pump's performance is described by several characteristic curves combined in a performance chart, which correspond to the different frequencies (Hz) or motor speeds.
The motor speed is indicated for each characteristic curve.
The range covered by the H/Q curves and the power input curves extends from the minimum speed stipulated for the pump up to the maximum speed.
Any duty point within this performance range can be obtained by adjusting the rotational speed accordingly.
Speed range: 100 – 25 % or 50 – 12.5 Hz.

Change in operating data

Flow rate Q, pump head H and power input P change as a function of speed N or frequency F.

$$Q_2 = \frac{n_2}{n_1} \cdot Q_1$$

$$H_2 = \frac{(n_2)^2}{(n_1)^2} \cdot H_1$$

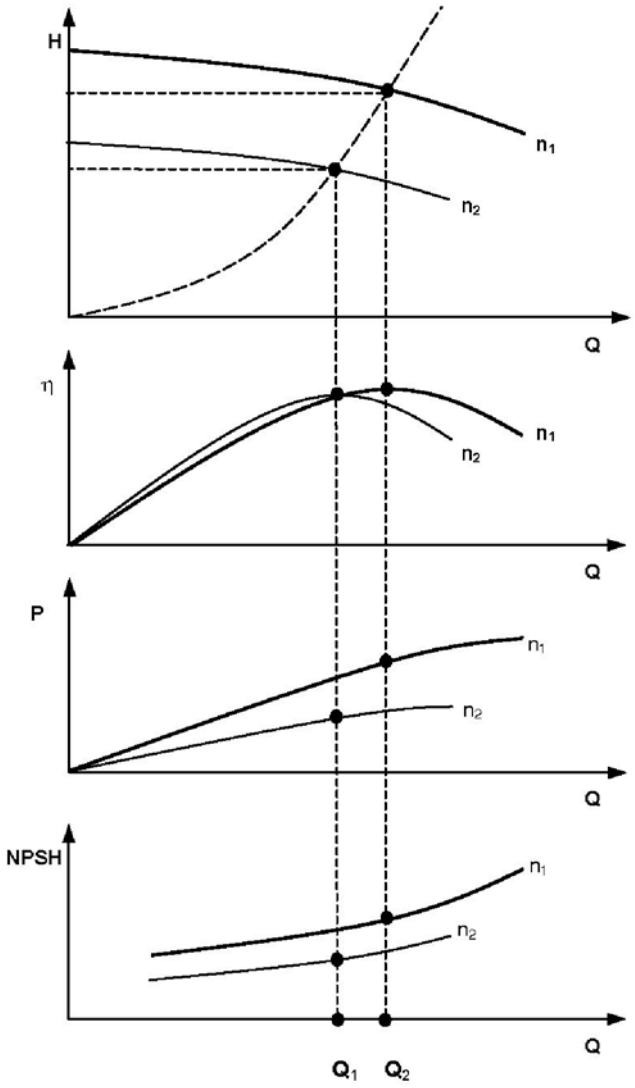
$$\eta_2 = 1 - \left((1 - \eta_1) \cdot \frac{(n_1)^{0,1}}{(n_2)^{0,1}} \right)$$

$$P_2 = \frac{(n_2)^3}{(n_1)^3} \cdot P_1$$

$$NPSH_2 = \frac{(n_2)^2}{(n_1)^2} \cdot NPSH_1$$

A pump's NPSH changes depending on the respective H/Q curve. However, the NPSH of the pump at maximum speed (or maximum frequency) must always be taken into account and used as calculation basis.

Performance chart



Recommended spare parts stock for two years' continuous operation

Number of pumps of identical size (including stand-by pumps) ->		2	3	4	5	6 and 7	8 and 9	10 and more
Part No.	Description	Quantity of spare parts						%
108.02	**Stage casing kit** Stage casing with bearing (108.02) + bearing sleeve (529) + spacer sleeve (525.01)	1 set		2 sets			3 sets	30
433	1 Mechanical seal kit	1 set		2 sets			3 sets	30

List of fluids handled

The data refer to the chemical resistance of the materials. The relevant regulations/standards governing individual pump applications have to be complied with.
The actual operating conditions must always be checked (concentration, temperature, solids content).
The penetration of air into the system must be avoided by all means.
If the operating conditions differ from the data given (e.g. mixed products) or if the fluids are not included in the table below, please contact KSB.

Basic data:

- Temperature ranges:
  - Reference temperature: 20 °C.
  - In the case of temperatures ≤0 °C: Contact KSB.
  - In the case of temperatures > 50 °C: check and observe the vapour pressure of the fluid handled!
  - Max. temperature = 120 °C, unless indicated otherwise.
- Max. concentration = 100 % unless indicated otherwise.
- Mechanical seal of silicon carbide / carbon (Q1B): not suitable for fluids containing solids.
  This rule also covers particles developing as a result of salt crystallisation at low fluid temperatures.
- Mechanical seal of tungsten carbide / tungsten carbide (U3U3): max. solids content 20 ppm (depending on particle size), with the exception of corrosive fluids. Fluids with a higher solids content are not permitted (ppm = 1 mg/kg).
- Please note: High temperatures will increase corrosion (reference temperature = 20 °C).
- Under unfavourable conditions (high temperatures, deposits, long idle periods), chloride contents of more than 300 mg/l may result in localised corrosion.

Fluid handled	Max. content in %	Max. temperature in °C	Mechanical seal variant					
			23	13	14	15	16	18
Alkaline solution, bottle rinsing, max. 2 % of sodium hydroxide		40				VC/V/VS		
Alcohol								
Butanol		60	VC	VC/V/VS				
Ethanol		60	VC	VC/V/VS				
Propanol		80	VC	VC/V/VS				
Alum, acid-free [4]	3 %	80			V/VS			
Ammonium bicarbonate	10 %	40	VC	VC/V/VS				
Aluminium sulphate, acid-free [5]	5 %	60					V/VS	
Ammonium sulphate	20 %	60		V/VS				
Spirits (40 % ethanol)		60		V/VS				
Calcium acetate, acid-free	10 %	60	VC	VC/V/VS				
Calcium nitrate, acid-free	10 %	60					V/VS	
Ferric sulphate (II)	5 %	80					V/VS	
Oil-water emulsion (95 % / 5 %), free from solids		80			VC/V/VS			
Ethylene glycol base anti-freeze, inhibited, closed system	20 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
	25 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
	30 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
	35 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
	40 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
	45 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
	50 %	110	VC [1]	VC/V/VS [1]	VC/V/VS		VC/V/VS [2]	
Ethylene glycol base anti-freeze, inhibited, open system	20 %	110		V/VS [1]	V/VS		V/VS [2]	
	25 %	110		V/VS [1]	V/VS		V/VS [2]	
	30 %	110		V/VS [1]	V/VS		V/VS [2]	
	35 %	110		V/VS [1]	V/VS		V/VS [2]	
	40 %	110		V/VS [1]	V/VS		V/VS [2]	
	45 %	110		V/VS [1]	V/VS		V/VS [2]	
	50 %	110		V/VS [1]	V/VS		V/VS [2]	
Glycerine	40 %	80	VC	VC/V/VS	VC/V/VS			
Glycols (pure)								
Diethylene glycol		100	VC	VC/V/VS	VC/V/VS			
Ethylene glycol		100	VC	VC/V/VS	VC/V/VS			

[1] max. 100 °C
[2] max. 110 °C
[4] Movitec V up to 50 °C, Movitec VS up to 80 °C, not for Movitec VC
[5] Movitec V up to 50 °C, Movitec VS up to 60 °C, not for Movitec VC

Fluid handled	Max. content in %	Max. temperature in °C	Mechanical seal variant					
			23	13	14	15	16	18
Potassium hydroxide	5 %	40				VC/V/VS		
Potassium nitrate, acid-free	5 %	30				VC/V/VS		
Potassium sulphate, acid-free	3 %	20			VC/V/VS			
Copper sulphate	5 %	80				V/VS		
Magnesium sulphate	10 %	80			V/VS			
Milk		60		V/VS	V/VS			
Sodium carbonate	6 %	60	VC	VC/V/VS				
Sodium hydroxide	5 %	40				VC/V/VS		
Sodium nitrate, acid-free [6])	10 %	60	VC	VC/V/VS				
Sodium sulphate, acid-free	5 %	60		V/VS				
Oil, vegetable oil								
Peanut oil		90			VC/V/VS			
Linseed oil, max. 3 % H_2SO_4 [7])		60			V/VS			
Linseed oil		60			VC/V/VS			
Corn oil		100			VC/V/VS			
Rapeseed oil		100			VC/V/VS			
Soybean oil		100			VC/V/VS			
Petroleum (crude oil)		80			V/VS			
Juice (fruit and sugar juice)		60			V/VS			
Acid								
Acetic acid	10 %	60		V/VS				
Acetic acid	5 %	60		V/VS				
Tannic acid	20 %	80			V/VS			
Maleic acid	10 %	60			V/VS			
Lactic acid	5 %	60			V/VS			
Lactic acid	40 %	60			V/VS			
Phosphoric acid	5 %	20			V/VS			
Sulphuric acid	5 %	20					VS	
Tartaric acid	8 %	40			VS			
Citric acid	25 %	30			V/VS			
Citric acid	10 %	30			V/VS			
Fuel								
Diesel oil		80			V/VS			
Heating oil		80			V/VS			
Kerosene (jet fuel)		80			V/VS			
Trisodium phosphate	4 %	80				VC/V/VS		

[6]) Movitec V up to 60 °C, Movitec VS up to 60 °C, Movitec VC up to 30 °C
[7]) Movitec V up to 20 °C, Movitec VS up to 60 °C, not for Movitec VC

Fluid handled	Max. content in %	Max. temperature in °C	Mechanical seal variant					
			23	13	14	15	16	18
Water, desalinated								
Deionised water (fully desalinated water)		140		V/VS [1]				V/VS [3]
Dealkalised water		120				V/VS [3]		
Decarbonised water		120				V/VS [3]		
Permeate (osmosis)		140		V/VS [1]				V/VS [3]
Partly desalinated water		120				V/VS [3]		
Water, fire-fighting water		60				VC/V/VS		
Water, heating water Heating water up to max. 100 °C, to VDI 2035		140	VC [1]	VC/V/VS [1]				VC/V/VS [3]
Water, hot water Hot water treated to VdTüV 1466		140	VC [1]	VC/V/VS [1]				VC/V/VS [3]
Water, boiler feed water in acc. with VdTÜV 1466		140	VC [1]	VC/V/VS [1]				VC/V/VS [3]
Water, condensate								
treated to VdTüV 1466		140	VC [1]	VC/V/VS [1]				VC/V/VS [3]
Vapour condensate (brewery)		140	VC [1]	VC/V/VS [1]				VC/V/VS [3]
Water, cooling water								
Closed cooling circuit		100					VC/V/VS	
Open cooling circuit		100					VC/V/VS	
Water, drinking/tap water								
Tap water		60		VC/V/VS				
Brewing water		60		VC/V/VS				
Ice water (brewery)		60		VC/V/VS				
Water, drinking water / tap water		60		VC/V/VS				
Hot water (brewery)		60		VC/V/VS				
Water, clean water		60	VC	VC/V/VS	VC/V/VS	VC/V/VS	VC/V/VS	VC/V/VS
Water, seawater and brackish water								
Brackish water		15					VS	
Seawater		15					VS	
Water, seawater and brackish water		15					VS	
Water, raw water		60				VC/V/VS		
Water, waste water, slightly contaminated water		60				VC/V/VS		
Water, surface water								
River water		60				VC/V/VS		
Lake water (fresh water)		60				VC/V/VS		
Dam water		60				VC/V/VS		
Water, surface water		60				VC/V/VS		
Water, swimming pool and bathing water								
Seawater		15					VS	
Fresh water		60			VC/V/VS			
Water, process water								
Barrier water		70					VC/V/VS	
Rinsing water		70					VC/V/VS	
Water, rainwater, with strainer		60					VC/V/VS	
Wine (white, red)		40		V/VS	V/VS			

[1] max. 100 °C
[3] max. 120 °C

Movitec VME
Mechanical seal in “Fixed” design, code 13, close-coupled motor IE2
External thread, with integrated (discharge-side) swing check valve,
Fixed-speed – 3~230/400 V

Size	Number of stages	Motor rating	Max. current	Thread Movitec VME	
		kW	I_{max} in A	Ident. No.	kg
2-pole					
Movitec VME 2	2	0.37	1.64 / 0.94	48 894 195	14.1
Movitec VME 2	3	0.37	1.64 / 0.94	48 894 196	14.4
Movitec VME 2	4	0.37	1.64 / 0.94	48 894 197	14.9
Movitec VME 2	5	0.37	1.64 / 0.94	48 894 198	15.3
Movitec VME 2	6	0.55	2.31 / 1.33	48 894 199	17.3
Movitec VME 4	2	0.37	1.64 / 0.94	48 894 220	14.1
Movitec VME 4	3	0.55	2.31 / 1.33	48 894 221	16.2
Movitec VME 4	4	0.55	2.31 / 1.33	48 894 222	16.9
Movitec VME 4	5	0.75	2.99 / 1.73	48 894 223	21.1
Movitec VME 4	6	1.1	4.22 / 2.43	48 894 224	21.5
Movitec VME 6	2	0.37	1.64 / 0.94	48 894 244	14.5
Movitec VME 6	3	0.75	2.99 / 1.73	48 894 245	18.2
Movitec VME 6	4	1.1	4.22 / 2.43	48 894 246	21.3
Movitec VME 6	5	1.1	4.22 / 2.43	48 894 247	21.8

[1]) IE2 for motor ratings ≥0.75 kW

Movitec VE
Mechanical seal in “Fixed” design, code 13, motor IE2
External thread, with integrated (discharge-side) swing check valve,
Fixed-speed – 3~230/400 V

Size	Number of stages	Motor rating	Max. current	Thread Movitec VE	
		kW	I_{max} in A	Ident. No.	kg
2-pole					
Movitec VE 10	1	0.75	2.99 / 1.73	48 896 664	29.5
Movitec VE 10	2	0.75	2.99 / 1.73	48 896 665	29.8
Movitec VE 10	3	1.1	4.22 / 2.43	48 896 666	32.9
Movitec VE 10	4	1.5	5.05 / 2.9	48 896 667	38.2
Movitec VE 10	5	2.2	7.25 / 4.17	48 896 668	41.7
Movitec VE 10	6	2.2	7.25 / 4.17	48 896 669	42.6
Movitec VE 10	7	3.0	5.55 / 3.22	48 896 670	51.5
Movitec VE 10	8	3.0	5.55 / 3.22	48 896 671	52.4

Movitec V
Mechanical seal in “Fixed” design, code 13, motor IE2
Fixed-speed – 1~230 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec V		Round flange Movitec VF	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg
2-pole							
Movitec V 2	2	0.37	2.6	48 895 170	15.7	–	–
Movitec V 2	3	0.37	2.6	48 895 171	16.1	–	–
Movitec V 2	4	0.37	2.6	48 895 172	16.5	–	–
Movitec V 2	5	0.37	2.6	48 895 173	16.9	–	–
Movitec V 2	6	0.55	3.69	48 895 174	18.2	–	–
Movitec V 2	7	0.55	3.69	48 895 175	18.6	–	–
Movitec V 2	8	0.55	3.69	48 895 176	19.0	–	–
Movitec V 2	9	0.75	5.4	48 895 177	22.6	–	–
Movitec V 2	10	0.75	5.4	48 895 178	23.0	–	–
Movitec V 2	11	1.1	6.68	48 895 179	25.0	–	–
Movitec V 2	12	1.1	6.68	48 895 180	25.4	–	–
Movitec V 2	14	1.1	6.68	48 895 181	26.2	–	–
Movitec V 2	16	1.5	8.99	48 895 182	28.2	–	–
Movitec V 2	18	1.5	8.99	48 895 183	29.1	–	–
Movitec V 2	20	1.5	8.99	–	–	48 895 184	34.6
Movitec V 2	22	2.2	13.04	–	–	48 895 185	41.0
Movitec V 2	24	2.2	13.04	–	–	48 895 186	41.8
Movitec V 2	26	2.2	13.04	–	–	48 895 187	42.6
Movitec V 2	28	2.2	13.04	–	–	48 895 188	43.4
Movitec V 2	30	2.2	13.04	–	–	48 895 189	59.8
Movitec V 4	2	0.37	2.6	48 895 190	15.8	–	–
Movitec V 4	3	0.55	3.69	48 895 191	17.0	–	–
Movitec V 4	4	0.55	3.69	48 895 192	17.8	–	–
Movitec V 4	5	0.75	5.4	48 895 193	21.0	–	–
Movitec V 4	6	1.1	6.68	48 895 194	23.0	–	–
Movitec V 4	7	1.1	6.68	48 895 195	23.4	–	–
Movitec V 4	8	1.5	8.99	48 895 196	24.6	–	–
Movitec V 4	9	1.5	8.99	48 895 197	25.5	–	–
Movitec V 4	10	1.5	8.99	48 895 198	25.9	–	–
Movitec V 4	11	2.2	13.04	48 895 199	31.4	–	–
Movitec V 4	12	2.2	13.04	48 895 260	32.2	–	–
Movitec V 4	14	2.2	13.04	48 895 261	33.1	–	–
Movitec V 6	2	0.37	2.6	48 895 263	14.9	–	–
Movitec V 6	3	0.75	5.4	48 895 264	20.3	–	–
Movitec V 6	4	1.1	6.68	48 895 265	22.2	–	–
Movitec V 6	5	1.1	6.68	48 895 266	22.7	–	–
Movitec V 6	6	1.5	8.99	48 895 267	22.4	–	–
Movitec V 6	7	1.5	8.99	48 895 268	24.9	–	–
Movitec V 6	8	2.2	13.04	48 895 269	30.9	–	–
Movitec V 6	9	2.2	13.04	48 895 270	31.4	–	–
Movitec V 6	10	2.2	13.04	48 895 271	31.9	–	–
Movitec V 10	1	0.75	5.4	48 896 678	28.9	–	–
Movitec V 10	2	0.75	5.4	48 896 679	29.1	–	–
Movitec V 10	3	1.1	6.68	48 896 680	30.7	–	–
Movitec V 10	4	1.5	8.99	48 896 681	36.8	–	–
Movitec V 10	5	2.2	13.04	48 896 682	39.7	–	–
Movitec V 10	6	2.2	13.04	48 896 683	40.6	–	–
Movitec V 15	1	1.1	6.68	–	–	48 869 969	29.3
Movitec V 15	2	2.2	13.04	–	–	48 869 970	36.2

[1]) IE2 for motor ratings ≥0.75 kW

Movitec V
Mechanical seal in “Fixed” design, code 13, motor IE2
Fixed-speed – 3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec V		Round flange Movitec VF	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg
2-pole							
Movitec V 2	2	0.37	1.64 / 0.94	48 894 200	16.1	–	–
Movitec V 2	3	0.37	1.64 / 0.94	48 894 201	16.5	–	–
Movitec V 2	4	0.37	1.64 / 0.94	48 894 202	16.9	–	–
Movitec V 2	5	0.37	1.64 / 0.94	48 894 203	17.3	–	–
Movitec V 2	6	0.55	2.31 / 1.33	48 894 204	19.5	–	–
Movitec V 2	7	0.55	2.31 / 1.33	48 894 205	19.9	–	–
Movitec V 2	8	0.55	2.31 / 1.33	48 894 206	20.3	–	–
Movitec V 2	9	0.75	2.99 / 1.73	48 894 207	22.6	–	–
Movitec V 2	10	0.75	2.99 / 1.73	48 894 208	23.0	–	–
Movitec V 2	11	1.1	4.22 / 2.43	48 894 209	26.0	–	–
Movitec V 2	12	1.1	4.22 / 2.43	48 894 210	26.4	–	–
Movitec V 2	14	1.1	4.22 / 2.43	48 894 211	27.2	–	–
Movitec V 2	16	1.5	5.05 / 2.9	48 894 212	31.6	–	–
Movitec V 2	18	1.5	5.05 / 2.9	48 894 213	32.5	–	–
Movitec V 2	20	1.5	5.05 / 2.9	–	–	48 894 214	38.0
Movitec V 2	22	2.2	7.25 / 4.17	–	–	48 894 215	41.9
Movitec V 2	24	2.2	7.25 / 4.17	–	–	48 894 216	42.7
Movitec V 2	26	2.2	7.25 / 4.17	–	–	48 894 217	46.5
Movitec V 2	28	2.2	7.25 / 4.17	–	–	48 894 218	44.3
Movitec V 2	30	2.2	7.25 / 4.17	–	–	48 894 219	60.7
Movitec V 4	2	0.37	1.64 / 0.94	48 894 225	16.2	–	–
Movitec V 4	3	0.55	2.31 / 1.33	48 894 226	18.3	–	–
Movitec V 4	4	0.55	2.31 / 1.33	48 894 227	19.0	–	–
Movitec V 4	5	0.75	2.99 / 1.73	48 894 228	21.0	–	–
Movitec V 4	6	1.1	4.22 / 2.43	48 894 229	24.0	–	–
Movitec V 4	7	1.1	4.22 / 2.43	48 894 230	24.4	–	–
Movitec V 4	8	1.5	5.05 / 2.9	48 894 231	28.1	–	–
Movitec V 4	9	1.5	5.05 / 2.9	48 894 232	28.9	–	–
Movitec V 4	10	1.5	5.05 / 2.9	48 894 233	29.3	–	–
Movitec V 4	11	2.2	7.25 / 4.17	48 894 234	32.3	–	–
Movitec V 4	12	2.2	7.25 / 4.17	48 894 235	33.1	–	–
Movitec V 4	14	2.2	7.25 / 4.17	48 894 236	34.0	–	–
Movitec V 4	16	3.0	5.55 / 3.22	48 894 237	48.2	–	–
Movitec V 4	18	3.0	5.55 / 3.22	–	–	48 894 238	49.0
Movitec V 4	20	3.0	5.55 / 3.22	–	–	48 894 239	49.9
Movitec V 4	22	4.0	7.29 / 4.22	–	–	48 894 240	59.7
Movitec V 4	24	4.0	7.29 / 4.22	–	–	48 894 241	60.6
Movitec V 4	26	4.0	7.29 / 4.22	–	–	48 894 242	61.4
Movitec V 6	2	0.37	1.64 / 0.94	48 894 248	16.2	–	–
Movitec V 6	3	0.75	2.99 / 1.73	48 894 249	20.3	–	–
Movitec V 6	4	1.1	4.22 / 2.43	48 894 250	23.2	–	–
Movitec V 6	5	1.1	4.22 / 2.43	48 894 251	23.7	–	–
Movitec V 6	6	1.5	5.05 / 2.9	48 894 252	27.8	–	–
Movitec V 6	7	1.5	5.05 / 2.9	48 894 253	28.3	–	–
Movitec V 6	8	2.2	7.25 / 4.17	48 894 254	31.8	–	–
Movitec V 6	9	2.2	7.25 / 4.17	48 894 255	32.3	–	–
Movitec V 6	10	2.2	7.25 / 4.17	48 894 256	32.8	–	–
Movitec V 6	11	3.0	5.55 / 3.22	48 894 257	42.7	–	–
Movitec V 6	12	3.0	5.55 / 3.22	48 894 258	43.1	–	–
Movitec V 6	14	3.0	5.55 / 3.22	48 894 259	43.6	–	–
Movitec V 6	16	4.0	7.29 / 4.22	48 894 260	54.1	–	–
Movitec V 6	18	4.0	7.29 / 4.22	–	–	48 894 261	60.4
Movitec V 6	20	5.5	10.07 / 5.84	–	–	48 894 262	77.5
Movitec V 6	22	5.5	10.07 / 5.84	–	–	48 894 263	78.5
Movitec V 6	24	5.5	10.07 / 5.84	–	–	48 894 264	78.9
Movitec V 6	26	5.5	10.07 / 5.84	–	–	48 894 265	79.4

[1]) IE2 for motor ratings $\geq$0.75 kW

Movitec V
Mechanical seal in “Fixed” design, code 13, motor IE2
Fixed-speed – 3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec V		Round flange Movitec VF	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg
2-pole							
Movitec V 10	1	0.75	2.99 / 1.73	48 896 616	32.4	–	–
Movitec V 10	2	0.75	2.99 / 1.73	48 896 617	32.6	–	–
Movitec V 10	3	1.1	4.22 / 2.43	48 896 618	35.7	–	–
Movitec V 10	4	1.5	5.05 / 2.9	48 896 619	41.0	–	–
Movitec V 10	5	2.2	7.25 / 4.17	48 896 620	44.5	–	–
Movitec V 10	6	2.2	7.25 / 4.17	48 896 621	45.4	–	–
Movitec V 10	7	3.0	5.55 / 3.22	48 896 622	54.3	–	–
Movitec V 10	8	3.0	5.55 / 3.22	48 896 623	55.2	–	–
Movitec V 10	9	4.0	7.25 / 4.17	48 896 624	61.6	–	–
Movitec V 10	10	4.0	7.25 / 4.17	48 896 625	62.6	–	–
Movitec V 10	11	4.0	7.25 / 4.17	48 896 626	63.6	–	–
Movitec V 10	13	5.5	10.07 / 5.84	48 896 627	104.4	–	–
Movitec V 10	15	5.5	10.07 / 5.84	–	–	48 896 628	107.8
Movitec V 10	17	7.5	13.6 / 7.88	–	–	48 896 629	116.2
Movitec V 10	19	7.5	13.6 / 7.88	–	–	48 896 630	118.2
Movitec V 10	21	7.5	13.6 / 7.88	–	–	48 896 631	120.1
Movitec V 15	1	1.1	4.22 / 2.43	48 896 837	34.3	–	–
Movitec V 15	2	2.2	7.25 / 4.17	48 896 838	41.0	–	–
Movitec V 15	3	3.0	5.55 / 3.22	48 896 839	50.3	–	–
Movitec V 15	4	4.0	7.25 / 4.17	48 896 840	56.2	–	–
Movitec V 15	5	5.5	10.07 / 5.84	48 896 841	94.9	–	–
Movitec V 15	6	5.5	10.07 / 5.84	48 896 842	95.9	–	–
Movitec V 15	7	7.5	13.6 / 7.88	48 896 843	100.9	–	–
Movitec V 15	8	7.5	13.6 / 7.88	48 896 844	103.3	–	–
Movitec V 15	9	11.0	19.47 / 11.24	48 896 845	179.8	–	–
Movitec V 15	10	11.0	19.47 / 11.24	48 896 846	180.8	–	–
Movitec V 15	11	11.0	19.47 / 11.24	–	–	48 896 847	185.2
Movitec V 15	13	15.0	26.35 / 15.21	–	–	48 896 848	200.2
Movitec V 15	15	15.0	26.35 / 15.21	–	–	48 896 849	202.3
Movitec V 15	17	15.0	26.35 / 15.21	–	–	48 896 850	204.4

[1]) IE2 for motor ratings $\geq$0.75 kW

Movitec V
Mechanical seal in “Easy-Access” design, code 13, motor IE2
3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec V fixed-speed		Round flange Movitec VF fixed-speed		Pump-Drive	Oval flange Movitec V variable-speed		Round flange Movitec VF variable-speed	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg	Type	Ident. No.	kg	Ident. No.	kg
2-pole												
Movitec V 2	2	0.37	1.64 / 0.94	48 894 326	16.3	48 894 386	20.3	..000K55..	48 894 346	24.8	–	–
Movitec V 2	3	0.37	1.64 / 0.94	48 894 327	16.7	48 894 387	20.7	..000K55..	48 894 347	25.2	–	–
Movitec V 2	4	0.37	1.64 / 0.94	48 894 328	17.1	48 894 388	21.1	..000K55..	48 894 348	25.6	–	–
Movitec V 2	5	0.37	1.64 / 0.94	48 894 329	17.5	48 894 389	21.5	..000K55..	48 894 349	26.0	–	–
Movitec V 2	6	0.55	2.31 / 1.33	48 894 330	19.7	48 894 390	23.7	..000K55..	48 894 350	28.2	–	–
Movitec V 2	7	0.55	2.31 / 1.33	48 894 331	20.0	48 894 391	24.0	..000K55..	48 894 351	28.5	–	–
Movitec V 2	8	0.55	2.31 / 1.33	48 894 332	20.4	48 894 392	24.4	..000K55..	48 894 352	28.9	–	–
Movitec V 2	9	0.75	2.99 / 1.73	48 894 333	22.8	48 894 393	26.7	..000K75..	48 894 353	31.3	–	–
Movitec V 2	10	0.75	2.99 / 1.73	48 894 334	23.3	48 894 394	27.3	..000K75..	48 894 354	31.8	–	–
Movitec V 2	11	1.1	4.22 / 2.43	48 894 335	26.1	48 894 395	30.1	..001K10..	48 894 355	34.6	–	–
Movitec V 2	12	1.1	4.22 / 2.43	48 894 336	26.5	48 894 396	30.5	..001K10..	48 894 356	35.0	–	–
Movitec V 2	14	1.1	4.22 / 2.43	48 894 337	27.6	48 894 397	31.6	..001K10..	48 894 357	36.1	–	–
Movitec V 2	16	1.5	5.05 / 2.9	48 894 338	31.8	48 894 398	35.8	..001K50..	48 894 358	40.3	–	–
Movitec V 2	18	1.5	5.05 / 2.9	48 894 339	32.6	48 894 399	36.6	..001K50..	48 894 359	41.1	–	–
Movitec V 2	20	1.5	5.05 / 2.9	–	–	48 894 340	37.4	..001K50..	–	–	48 894 360	45.9
Movitec V 2	22	2.2	7.25 / 4.17	–	–	48 894 341	43.0	..002K20..	–	–	48 894 361	53.5
Movitec V 2	24	2.2	7.25 / 4.17	–	–	48 894 342	42.1	..002K20..	–	–	48 894 362	52.6
Movitec V 2	26	2.2	7.25 / 4.17	–	–	48 894 343	42.9	..002K20..	–	–	48 894 363	53.4
Movitec V 2	28	2.2	7.25 / 4.17	–	–	48 894 344	43.7	..002K20..	–	–	48 894 364	54.2
Movitec V 2	30	2.2	7.25 / 4.17	–	–	48 894 345	60.1	..002K20..	–	–	48 894 365	70.6
Movitec V 4	2	0.37	1.64 / 0.94	48 894 517	16.3	48 894 574	20.3	..000K55..	48 894 536	24.8	–	–
Movitec V 4	3	0.55	2.31 / 1.33	48 894 518	18.4	48 894 575	22.4	..000K55..	48 894 537	26.9	–	–
Movitec V 4	4	0.55	2.31 / 1.33	48 894 519	19.3	48 894 576	23.3	..000K55..	48 894 538	27.8	–	–
Movitec V 4	5	0.75	2.99 / 1.73	48 894 520	21.2	48 894 577	25.2	..000K75..	48 894 539	29.7	–	–
Movitec V 4	6	1.1	4.22 / 2.43	48 894 521	24.1	48 894 578	28.1	..001K10..	48 894 540	32.6	–	–
Movitec V 4	7	1.1	4.22 / 2.43	48 894 522	24.5	48 894 579	28.5	..001K10..	48 894 541	33.0	–	–
Movitec V 4	8	1.5	5.05 / 2.9	48 894 523	28.2	48 894 580	32.1	..001K50..	48 894 542	36.7	–	–
Movitec V 4	9	1.5	5.05 / 2.9	48 894 524	29.0	48 894 581	33.0	..001K50..	48 894 543	37.5	–	–
Movitec V 4	10	1.5	5.05 / 2.9	48 894 525	29.5	48 894 582	33.4	..001K50..	48 894 544	38.0	–	–
Movitec V 4	11	2.2	7.25 / 4.17	48 894 526	32.5	48 894 583	36.4	..002K20..	48 894 545	43.0	–	–
Movitec V 4	12	2.2	7.25 / 4.17	48 894 527	33.3	48 894 584	37.3	..002K20..	48 894 546	43.8	–	–
Movitec V 4	14	2.2	7.25 / 4.17	48 894 528	34.1	48 894 585	38.1	..002K20..	48 894 547	44.6	–	–
Movitec V 4	16	3.0	5.55 / 3.22	48 894 529	47.3	48 894 586	43.4	..003K00..	48 894 548	58.9	–	–
Movitec V 4	18	3.0	5.55 / 3.22	–	–	48 894 530	49.2	..003K00..	–	–	48 894 549	59.7
Movitec V 4	20	3.0	5.55 / 3.22	–	–	48 894 531	50.0	..003K00..	–	–	48 894 550	60.6
Movitec V 4	22	4.0	7.29 / 4.22	–	–	48 894 532	59.9	..004K00..	–	–	48 894 551	71.1
Movitec V 4	24	4.0	7.29 / 4.22	–	–	48 894 533	60.7	..004K00..	–	–	48 894 552	71.9
Movitec V 4	26	4.0	7.29 / 4.22	–	–	48 894 534	61.6	..004K00..	–	–	48 894 553	72.8
Movitec V 6	2	0.37	1.64 / 0.94	48 894 711	16.3	48 894 765	23.4	..000K55..	48 894 729	24.8	–	–
Movitec V 6	3	0.75	2.99 / 1.73	48 894 712	20.4	48 894 766	25.8	..000K75..	48 894 730	28.9	–	–
Movitec V 6	4	1.1	4.22 / 2.43	48 894 713	23.4	48 894 767	28.8	..001K10..	48 894 731	31.9	–	–
Movitec V 6	5	1.1	4.22 / 2.43	48 894 714	23.9	48 894 768	29.3	..001K10..	48 894 732	32.4	–	–
Movitec V 6	6	1.5	5.05 / 2.9	48 894 715	28.0	48 894 769	33.4	..001K50..	48 894 733	36.5	–	–
Movitec V 6	7	1.5	5.05 / 2.9	48 894 716	28.5	48 894 770	33.9	..001500..	48 894 734	37.0	–	–
Movitec V 6	8	2.2	7.25 / 4.17	48 894 717	32.0	48 894 771	37.4	..002K20..	48 894 735	42.5	–	–
Movitec V 6	9	2.2	7.25 / 4.17	48 894 718	32.4	48 894 772	37.8	..002K20..	48 894 736	42.9	–	–
Movitec V 6	10	2.2	7.25 / 4.17	48 894 719	33.0	48 894 773	38.4	..002K20..	48 894 737	43.5	–	–
Movitec V 6	11	3.0	5.55 / 3.22	48 894 720	42.8	48 894 774	48.2	..003K00..	48 894 738	53.4	–	–
Movitec V 6	12	3.0	5.55 / 3.22	48 894 721	43.3	48 894 775	48.7	..003K00..	48 894 739	53.8	–	–
Movitec V 6	14	3.0	5.55 / 3.22	48 894 722	53.3	48 894 776	49.2	..003K00..	48 894 740	54.3	–	–
Movitec V 6	16	4.0	7.29 / 4.22	48 894 723	54.2	48 894 777	59.6	..004K00..	48 894 741	65.4	–	–
Movitec V 6	18	4.0	7.29 / 4.22	–	–	48 894 724	60.6	..004K00..	–	–	48 894 742	71.8
Movitec V 6	20	5.5	10.07 / 5.84	–	–	48 894 725	77.7	..005K50..	–	–	48 894 743	89.7
Movitec V 6	22	5.5	10.07 / 5.84	–	–	48 894 726	78.6	..005K50..	–	–	48 894 744	90.7
Movitec V 6	24	5.5	10.07 / 5.84	–	–	48 894 727	79.1	..005K50..	–	–	48 894 745	91.2
Movitec V 6	26	5.5	10.07 / 5.84	–	–	48 894 728	79.6	..005K50..	–	–	48 894 746	91.6
Movitec V 10	1	0.75	2.99 / 1.73	48 896 632	32.5	–	–	..000K75..	48 897 231	42.6	–	–
Movitec V 10	2	0.75	2.99 / 1.73	48 896 633	32.8	–	–	..000K75..	48 897 232	42.9	–	–
Movitec V 10	3	1.1	4.22 / 2.43	48 896 634	35.9	–	–	..001K10..	48 897 233	46.0	–	–
Movitec V 10	4	1.5	5.05 / 2.9	48 896 635	41.2	–	–	..001K50..	48 897 234	51.3	–	–
Movitec V 10	5	2.2	7.25 / 4.17	48 896 636	44.7	–	–	..002K20..	48 897 235	56.8	–	–
Movitec V 10	6	2.2	7.25 / 4.17	48 896 637	45.6	–	–	..002K20..	48 897 236	57.7	–	–
Movitec V 10	7	3.0	5.55 / 3.22	48 896 638	54.4	–	–	..003K00..	48 897 237	67.2	–	–
Movitec V 10	8	3.0	5.55 / 3.22	48 896 639	55.4	–	–	..003K00..	48 897 238	68.1	–	–
Movitec V 10	9	4.0	7.25 / 4.17	48 896 640	61.8	–	–	..004K00..	48 897 239	76.0	–	–
Movitec V 10	10	4.0	7.25 / 4.17	48 896 641	62.8	–	–	..004K00..	48 897 240	77.0	–	–
Movitec V 10	11	4.0	7.25 / 4.17	48 896 642	63.7	–	–	..004K00..	48 897 241	77.9	–	–
Movitec V 10	13	5.5	10.07 / 5.84	48 896 643	104.6	–	–	..005K50..	48 897 242	120.5	–	–
Movitec V 10	15	5.5	10.07 / 5.84	–	–	48 896 644	108.0	..005K50..	–	–	48 897 243	123.9
Movitec V 10	17	7.5	13.6 / 7.88	–	–	48 896 645	116.4	..007K50..	–	–	48 897 244	132.3
Movitec V 10	19	7.5	13.6 / 7.88	–	–	48 896 646	118.3	..007K50..	–	–	48 897 245	134.3
Movitec V 10	21	7.5	13.6 / 7.88	–	–	48 896 647	120.2	..007K50..	–	–	48 897 246	136.2

[1]) IE2 for motor ratings ≥0.75 kW

Movitec V
Mechanical seal in “Easy-Access” design, code 13, motor IE2
3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec V fixed-speed		Round flange Movitec VF fixed-speed		Pump-Drive	Oval flange Movitec V variable-speed		Round flange Movitec VF variable-speed	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg	Type	Ident. No.	kg	Ident. No.	kg
2-pole												
Movitec V 15	1	1.1	4.22 / 2.43	48 896 851	34.4	48 896 865	37.8	..001K10..	48 897 277	44.6	–	–
Movitec V 15	2	2.2	7.25 / 4.17	48 896 852	41.1	48 896 866	44.5	..002K20..	48 897 278	53.2	–	–
Movitec V 15	3	3.0	5.55 / 3.22	48 896 853	50.4	48 896 867	53.8	..003K00..	48 897 279	63.2	–	–
Movitec V 15	4	4.0	7.25 / 4.17	48 896 854	56.4	48 896 868	59.7	..004K00..	48 897 280	70.6	–	–
Movitec V 15	5	5.5	10.07 / 5.84	48 896 855	95.1	48 896 869	98.4	..005K50..	48 897 281	111.0	–	–
Movitec V 15	6	5.5	10.07 / 5.84	48 896 856	96.0	48 896 870	99.4	..005K50..	48 897 282	112.0	–	–
Movitec V 15	7	7.5	13.6 / 7.88	48 896 857	101.0	48 896 871	104.4	..007K50..	48 897 283	117.0	–	–
Movitec V 15	8	7.5	13.6 / 7.88	48 896 858	103.5	48 896 872	106.8	..007K50..	48 897 284	119.4	–	–
Movitec V 15	9	11.0	19.47 / 11.24	48 896 859	180.0	48 896 873	183.3	..011K00..	48 897 285	211.3	–	–
Movitec V 15	10	11.0	19.47 / 11.24	48 896 860	181.0	48 896 874	184.3	..011K00..	48 897 286	212.4	–	–
Movitec V 15	11	11.0	19.47 / 11.24	–	–	48 896 861	185.4	..011K00..	–	–	48 897 287	216.7
Movitec V 15	13	15.0	26.35 / 15.21	–	–	48 896 862	200.4	..015K00..	–	–	48 897 288	231.8
Movitec V 15	15	15.0	26.35 / 15.21	–	–	48 896 863	202.5	..015K00..	–	–	48 897 289	233.8
Movitec V 15	17	15.0	26.35 / 15.21	–	–	48 896 864	204.5	..015K00..	–	–	48 897 290	235.8
4-pole												
Movitec V 15	1	0.55	2.34 / 1.34	48 897 090	34.4	48 897 118	37.8	–	–	–	–	–
Movitec V 15	2	0.55	2.34 / 1.34	48 897 091	34.8	48 897 119	38.1	–	–	–	–	–
Movitec V 15	3	0.55	2.34 / 1.34	48 897 092	35.7	48 897 120	39.1	–	–	–	–	–
Movitec V 15	4	0.55	2.34 / 1.34	48 897 093	36.7	48 897 121	40.1	–	–	–	–	–
Movitec V 15	5	0.55	2.34 / 1.34	48 897 094	38.3	48 897 122	41.7	–	–	–	–	–
Movitec V 15	6	0.75	c3.09 / 1.78	48 897 095	40.3	48 897 123	43.6	–	–	–	–	–
Movitec V 15	7	0.75	3.09 / 1.78	48 897 096	41.2	48 897 124	44.6	–	–	–	–	–
Movitec V 15	8	1.1	4.71 / 2.40	48 897 097	44.1	48 897 125	47.4	–	–	–	–	–
Movitec V 15	9	1.1	4.71 / 2.40	48 897 098	45.6	48 897 126	49.0	–	–	–	–	–
Movitec V 15	10	1.1	4.71 / 2.40	48 897 099	46.6	48 897 127	50.0	–	–	–	–	–
Movitec V 15	11	1.5	5.61 / 3.22	48 897 100	49.6	48 897 128	53.0	–	–	–	–	–
Movitec V 15	13	1.5	5.61 / 3.22	48 897 101	51.7	48 897 129	55.0	–	–	–	–	–
Movitec V 15	15	2.2	8.19 / 4.71	48 897 102	61.6	48 897 130	65.0	–	–	–	–	–
Movitec V 15	17	2.2	8.19 / 4.71	48 897 103	63.7	48 897 131	67.0	–	–	–	–	–

[1]) IE2 for motor ratings ≥0.75 kW

Movitec VCF with round flange
Mechanical seal in “Easy-Access” design, code 23, motor IE2
3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Round flange Movitec VCF fixed-speed		Pump-Drive	Round flange Movitec VCF variable-speed	
		kW	I_{max} in A	Ident. No.	kg	Type	Ident. No.	kg
2-pole								
Movitec VCF 2	2	0.37	1.64 / 0.94	48 894 266	21.0	..000K55..	48 894 286	29.5
Movitec VCF 2	3	0.37	1.64 / 0.94	48 894 267	21.4	..000K55..	48 894 287	30.0
Movitec VCF 2	4	0.37	1.64 / 0.94	48 894 268	21.8	..000K55..	48 894 288	30.3
Movitec VCF 2	5	0.37	1.64 / 0.94	48 894 269	22.2	..000K55..	48 894 289	30.8
Movitec VCF 2	6	0.55	2.31 / 1.33	48 894 270	24.5	..000K55..	48 894 290	33.0
Movitec VCF 2	7	0.55	2.31 / 1.33	48 894 271	24.8	..000K55..	48 894 291	33.3
Movitec VCF 2	8	0.55	2.31 / 1.33	48 894 272	25.2	..000K55..	48 894 292	33.7
Movitec VCF 2	9	0.75	2.99 / 1.73	48 894 273	27.5	..000K75..	48 894 293	36.0
Movitec VCF 2	10	0.75	2.99 / 1.73	48 894 274	28.1	..000K75..	48 894 294	36.6
Movitec VCF 2	11	1.1	4.22 / 2.43	48 894 275	30.8	..001K10..	48 894 295	39.4
Movitec VCF 2	12	1.1	4.22 / 2.43	48 894 276	31.3	..001K10..	48 894 296	39.8
Movitec VCF 2	14	1.1	4.22 / 2.43	48 894 277	32.3	..001K10..	48 894 297	40.8
Movitec VCF 2	16	1.5	5.05 / 2.9	48 894 278	36.5	..001K50..	48 894 298	45.0
Movitec VCF 2	18	1.5	5.05 / 2.9	48 894 279	37.4	..001K50..	48 894 299	45.9
Movitec VCF 2	20	1.5	5.05 / 2.9	48 894 280	38.2	..001K50..	48 894 300	46.7
Movitec VCF 2	22	2.2	7.25 / 4.17	48 894 281	43.7	..002K20..	48 894 301	54.2
Movitec VCF 2	24	2.2	7.25 / 4.17	48 894 282	42.8	..002K20..	48 894 302	53.3
Movitec VCF 2	26	2.2	7.25 / 4.17	48 894 283	43.7	..002K20..	48 894 303	54.2
Movitec VCF 2	28	2.2	7.25 / 4.17	48 894 284	44.5	..002K20..	48 894 304	55.0
Movitec VCF 2	30	2.2	7.25 / 4.17	48 894 285	60.8	..002K20..	48 894 305	71.4
Movitec VCF 4	2	0.37	1.64 / 0.94	48 894 460	21.1	..000K55..	48 894 479	29.6
Movitec VCF 4	3	0.55	2.31 / 1.33	48 894 461	23.2	..000K55..	48 894 480	31.7
Movitec VCF 4	4	0.55	2.31 / 1.33	48 894 462	24.0	..000K55..	48 894 481	32.5
Movitec VCF 4	5	0.75	2.99 / 1.73	48 894 463	25.9	..000K75..	48 894 482	34.4
Movitec VCF 4	6	1.1	4.22 / 2.43	48 894 464	28.9	..001K10..	48 894 483	37.4
Movitec VCF 4	7	1.1	4.22 / 2.43	48 894 465	29.3	..001K10..	48 894 484	37.8
Movitec VCF 4	8	1.5	5.05 / 2.9	48 894 466	32.9	..001K50..	48 894 485	41.4
Movitec VCF 4	9	1.5	5.05 / 2.9	48 894 467	33.8	..001K50..	48 894 486	42.3
Movitec VCF 4	10	1.5	5.05 / 2.9	48 894 468	34.2	..001K50..	48 894 487	42.7
Movitec VCF 4	11	2.2	7.25 / 4.17	48 894 469	37.2	..002K20..	48 894 488	47.7
Movitec VCF 4	12	2.2	7.25 / 4.17	48 894 470	38.0	..002K20..	48 894 489	48.6
Movitec VCF 4	14	2.2	7.25 / 4.17	48 894 471	38.9	..002K20..	48 894 490	49.4
Movitec VCF 4	14	3.0	5.55 / 3.22	48 894 472	49.1	..003K00..	48 894 491	59.7
Movitec VCF 4	18	3.0	5.55 / 3.22	48 894 473	49.9	..003K00..	48 894 492	60.5
Movitec VCF 4	20	3.0	5.55 / 3.22	48 894 474	50.8	..003K00..	48 894 493	61.4
Movitec VCF 4	22	4.0	7.29 / 4.22	48 894 475	60.7	..004K00..	48 894 494	71.9
Movitec VCF 4	24	4.0	7.29 / 4.22	48 894 476	61.5	..004K00..	48 894 495	72.7
Movitec VCF 4	26	4.0	7.29 / 4.22	48 894 477	62.4	..004K00..	48 894 496	73.6
Movitec VCF 6	2	0.37	1.64 / 0.94	48 894 657	22.4	..000K55..	48 894 675	30.9
Movitec VCF 6	3	0.75	2.99 / 1.73	48 894 658	26.5	..000K75..	48 894 676	35.0
Movitec VCF 6	4	1.1	4.22 / 2.43	48 894 659	29.5	..001K10..	48 894 677	38.0
Movitec VCF 6	5	1.1	4.22 / 2.43	48 894 660	30.0	..001K10..	48 894 678	38.5
Movitec VCF 6	6	1.5	5.05 / 2.9	48 894 661	34.1	..001K50..	48 894 679	42.6
Movitec VCF 6	7	1.5	5.05 / 2.9	48 894 662	34.6	..001K50..	48 894 680	43.1
Movitec VCF 6	8	2.2	7.25 / 4.17	48 894 663	38.1	..002K20..	48 894 681	48.6
Movitec VCF 6	9	2.2	7.25 / 4.17	48 894 664	38.5	..002K20..	48 894 682	49.0
Movitec VCF 6	10	2.2	7.25 / 4.17	48 894 665	39.1	..002K20..	48 894 683	49.6
Movitec VCF 6	11	3.0	5.55 / 3.22	48 894 666	48.9	..003K00..	48 894 684	59.5
Movitec VCF 6	12	3.0	5.55 / 3.22	48 894 667	49.4	..003K00..	48 894 685	59.9
Movitec VCF 6	14	3.0	5.55 / 3.22	48 894 668	49.9	..003K00..	48 894 686	60.4
Movitec VCF 6	16	4.0	7.29 / 4.22	48 894 669	60.3	..004K00..	48 894 687	71.5
Movitec VCF 6	18	4.0	7.29 / 4.22	48 894 670	61.3	..004K00..	48 894 688	72.5
Movitec VCF 6	20	5.5	10.07 / 5.84	48 894 671	78.4	..005K50..	48 894 689	90.4
Movitec VCF 6	22	5.5	10.07 / 5.84	48 894 672	79.3	..005K50..	48 894 690	91.4
Movitec VCF 6	24	5.5	10.07 / 5.84	48 894 673	79.8	..005K50..	48 894 691	91.9
Movitec VCF 6	26	5.5	10.07 / 5.84	48 894 674	80.3	..005K50..	48 894 692	92.3
Movitec VCF 10	1	0.75	2.99 / 1.73	48 896 600	36.1	..000K75..	48 897 215	46.2
Movitec VCF 10	2	0.75	2.99 / 1.73	48 896 601	36.3	..000K75..	48 897 216	46.4
Movitec VCF 10	3	1.1	4.22 / 2.43	48 896 602	39.4	..001K10..	48 897 217	49.5
Movitec VCF 10	4	1.5	5.05 / 2.9	48 896 603	44.7	..001K50..	48 897 218	54.8
Movitec VCF 10	5	2.2	7.25 / 4.17	48 896 604	48.2	..002K20..	48 897 219	60.3
Movitec VCF 10	6	2.2	7.25 / 4.17	48 896 605	49.1	..002K20..	48 897 220	61.2
Movitec VCF 10	7	3.0	5.55 / 3.22	48 896 606	58.0	..003K00..	48 897 221	70.8
Movitec VCF 10	8	3.0	5.55 / 3.22	48 896 607	58.9	..003K00..	48 897 222	71.7
Movitec VCF 10	9	4.0	7.25 / 4.17	48 896 608	65.4	..004K00..	48 897 223	79.6
Movitec VCF 10	10	4.0	7.25 / 4.17	48 896 609	68.3	..004K00..	48 897 224	80.5
Movitec VCF 10	11	4.0	7.25 / 4.17	48 896 610	67.3	..004K00..	48 897 225	81.5
Movitec VCF 10	13	5.5	10.07 / 5.84	48 896 611	109.1	..005K50..	48 897 226	124.1
Movitec VCF 10	15	5.5	10.07 / 5.84	48 896 612	112.6	..005K50..	48 897 227	128.5
Movitec VCF 10	17	7.5	13.6 / 7.88	48 896 613	118.5	..007K50..	48 897 228	134.4
Movitec VCF 10	19	7.5	13.6 / 7.88	48 896 614	120.4	..007K50..	48 897 229	136.4
Movitec VCF 10	21	7.5	13.6 / 7.88	48 896 615	122.3	..007K50..	48 897 230	138.3

[1]) IE2 for motor ratings ≥0.75 kW

Movitec VCF with round flange
Mechanical seal in “Easy-Access” design, code 23, motor IE2
3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Round flange Movitec VCF fixed-speed		Pump-Drive	Round flange Movitec VCF variable-speed	
		kW	I_{max} in A	Ident. No.	kg	Type	Ident. No.	kg
2-pole								
Movitec VCF 15	1	1.1	4.22 / 2.43	48 896 823	40.6	..001K10..	48 897 263	50.7
Movitec VCF 15	2	2.2	7.25 / 4.17	48 896 824	47.3	..002K20..	48 897 264	59.4
Movitec VCF 15	3	3.0	5.55 / 3.22	48 896 825	56.6	..003K00..	48 897 265	69.3
Movitec VCF 15	4	4.0	7.25 / 4.17	48 896 826	62.6	..004K00..	48 897 266	76.8
Movitec VCF 15	5	5.5	10.07 / 5.84	48 896 827	101.2	..005K50..	48 897 267	117.2
Movitec VCF 15	6	5.5	10.07 / 5.84	48 896 828	102.2	..005K50..	48 897 268	118.2
Movitec VCF 15	7	7.5	13.6 / 7.88	48 896 829	107.2	..007K50..	48 897 269	123.1
Movitec VCF 15	8	7.5	13.6 / 7.88	48 896 830	109.6	..007K50..	48 897 270	125.6
Movitec VCF 15	9	11.0	19.47 / 11.24	48 896 831	186.1	..011K00..	48 897 271	217.5
Movitec VCF 15	10	11.0	19.47 / 11.24	48 896 832	187.2	..011K00..	48 897 272	218.5
Movitec VCF 15	11	11.0	19.47 / 11.24	48 896 833	188.2	..011K00..	48 897 273	219.5
Movitec VCF 15	13	15.0	26.35 / 15.21	48 896 834	203.2	..015K00..	48 897 274	234.6
Movitec VCF 15	15	15.0	26.35 / 15.21	48 896 835	205.3	..015K00..	48 897 275	236.7
Movitec VCF 15	17	15.0	26.35 / 15.21	48 896 836	207.3	..015K00..	48 897 276	238.7
4-pole								
Movitec VCF 15	1	0.55	2.34 / 1.34	48 897 076	40.6	–	–	–
Movitec VCF 15	2	0.55	2.34 / 1.34	48 897 077	40.9	–	–	–
Movitec VCF 15	3	0.55	2.34 / 1.34	48 897 078	41.9	–	–	–
Movitec VCF 15	4	0.55	2.34 / 1.34	48 897 079	42.9	–	–	–
Movitec VCF 15	5	0.55	2.34 / 1.34	48 897 080	44.5	–	–	–
Movitec VCF 15	6	0.75	3.09 / 1.78	48 897 081	46.4	–	–	–
Movitec VCF 15	7	0.75	3.09 / 1.78	48 897 082	47.4	–	–	–
Movitec VCF 15	8	1.1	4.71 / 2.40	48 897 083	50.2	–	–	–
Movitec VCF 15	9	1.1	4.71 / 2.40	48 897 084	51.8	–	–	–
Movitec VCF 15	10	1.1	4.71 / 2.40	48 897 085	52.8	–	–	–
Movitec VCF 15	11	1.5	5.61 / 3.22	48 897 086	55.8	–	–	–
Movitec VCF 15	13	1.5	5.61 / 3.22	48 897 087	57.8	–	–	–
Movitec VCF 15	15	2.2	8.19 / 4.71	48 897 088	67.8	–	–	–
Movitec VCF 15	17	2.2	8.19 / 4.71	48 897 089	69.9	–	–	–

[1]) IE2 for motor ratings ≥0.75 kW

Movitec VS
Mechanical seal in “Easy-Access” design, code 14, motor IE2
3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec VS fixed-speed		Round flange Movitec VSF fixed-speed		Pump-Drive [2]	Oval flange Movitec VS variable-speed		Round flange Movitec VSF variable-speed	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg	Type	Ident. No.	kg	Ident. No.	kg
2-pole												
Movitec VS 2	2	0.37	1.64/ 0.94	48 894 400	16.9	–	–	..000K55..	48 894 420	25.5	–	–
Movitec VS 2	3	0.37	1.64/ 0.94	48 894 401	17.4	–	–	..000K55..	48 894 421	25.9	–	–
Movitec VS 2	4	0.37	1.64/ 0.94	48 894 402	17.8	–	–	..000K55..	48 894 422	26.3	–	–
Movitec VS 2	5	0.37	1.64/ 0.94	48 894 403	18.2	–	–	..000K55..	48 894 423	26.7	–	–
Movitec VS 2	6	0.55	2.31/ 1.33	48 894 404	20.4	–	–	..000K55..	48 894 424	28.9	–	–
Movitec VS 2	7	0.55	2.31/ 1.33	48 894 405	20.7	–	–	..000K55..	48 894 425	29.2	–	–
Movitec VS 2	8	0.55	2.31/ 1.33	48 894 406	21.1	–	–	..000K55..	48 894 426	29.6	–	–
Movitec VS 2	9	0.75	2.99/ 1.73	48 894 407	23.4	–	–	..000K75..	48 894 427	31.9	–	–
Movitec VS 2	10	0.75	2.99/ 1.73	48 894 408	24.0	–	–	..000K75..	48 894 428	32.5	–	–
Movitec VS 2	11	1.1	4.22/ 2.43	48 894 409	26.8	–	–	..001K10..	48 894 429	35.3	–	–
Movitec VS 2	12	1.1	4.22/ 2.43	48 894 410	27.2	–	–	..001K10..	48 894 430	35.7	–	–
Movitec VS 2	14	1.1	4.22/ 2.43	48 894 411	28.3	–	–	..001K10..	48 894 431	36.8	–	–
Movitec VS 2	16	1.5	5.05/ 2.9	48 894 412	32.5	–	–	..001K50..	48 894 432	41.0	–	–
Movitec VS 2	18	1.5	5.05/ 2.9	48 894 413	33.3	–	–	..001K50..	48 894 433	41.8	–	–
Movitec VS 2	20	1.5	5.05/ 2.9	–	–	48 894 414	36.8	..001K50..	–	–	48 894 434	45.3
Movitec VS 2	22	2.2	7.25/ 4.17	–	–	48 894 415	42.3	..002K20..	–	–	48 894 435	52.8
Movitec VS 2	24	2.2	7.25/ 4.17	–	–	48 894 416	41.5	..002K20..	–	–	48 894 436	52.0
Movitec VS 2	26	2.2	7.25/ 4.17	–	–	48 894 417	42.3	..002K20..	–	–	48 894 437	52.8
Movitec VS 2	28	2.2	7.25/ 4.17	–	–	48 894 418	43.1	..002K20..	–	–	48 894 438	53.6
Movitec VS 2	30	2.2	7.25/ 4.17	–	–	48 894 419	59.5	..002K20..	–	–	48 894 439	70.0
Movitec VS 4	2	0.37	1.64/ 0.94	48 894 587	17.0	48 894 644	21.1	..000K55..	48 894 606	25.5	–	–
Movitec VS 4	3	0.55	2.31/ 1.33	48 894 588	19.1	48 894 645	23.2	..000K55..	48 894 607	27.6	–	–
Movitec VS 4	4	0.55	2.31/ 1.33	48 894 589	20.0	48 894 646	24.0	..000K55..	48 894 608	28.5	–	–
Movitec VS 4	5	0.75	2.99/ 1.73	48 894 590	21.8	48 894 647	25.9	..000K75..	48 894 609	30.4	–	–
Movitec VS 4	6	1.1	4.22/ 2.43	48 894 591	24.8	48 894 648	28.9	..001K10..	48 894 610	33.3	–	–
Movitec VS 4	7	1.1	4.22/ 2.43	48 894 592	25.2	48 894 649	29.3	..001K10..	48 894 611	33.7	–	–
Movitec VS 4	8	1.5	5.05/ 2.9	48 894 593	28.8	48 894 650	32.9	..001K50..	48 894 612	37.3	–	–
Movitec VS 4	9	1.5	5.05/ 2.9	48 894 594	29.7	48 894 651	33.8	..001K50..	48 894 613	38.2	–	–
Movitec VS 4	10	1.5	5.05/ 2.9	48 894 595	30.1	48 894 652	34.2	..001K50..	48 894 614	38.6	–	–
Movitec VS 4	11	2.2	7.25/ 4.17	48 894 596	33.1	48 894 653	37.2	..002K20..	48 894 615	43.6	–	–
Movitec VS 4	12	2.2	7.25/ 4.17	48 894 597	34.0	48 894 654	38.0	..002K20..	48 894 616	44.5	–	–
Movitec VS 4	14	2.2	7.25/ 4.17	48 894 598	34.8	48 894 655	38.9	..002K20..	48 894 617	45.3	–	–
Movitec VS 4	16	3.0	5.55/ 3.22	48 894 599	47.7	48 894 656	44.1	..003K00..	48 894 618	58.3	–	–
Movitec VS 4	18	3.0	5.55/ 3.22	–	–	48 894 600	48.6	..003K00..	–	–	48 894 619	59.1
Movitec VS 4	20	3.0	5.55/ 3.22	–	–	48 894 601	49.4	..003K00..	–	–	48 894 620	60.0
Movitec VS 4	22	4.0	7.29/ 4.22	–	–	48 894 602	59.3	..004K00..	–	–	48 894 621	70.5
Movitec VS 4	24	4.0	7.29/ 4.22	–	–	48 894 603	60.1	..004K00..	–	–	48 894 622	71.3
Movitec VS 4	26	4.0	7.29/ 4.22	–	–	48 894 604	61.0	..004K00..	–	–	48 894 623	72.2
Movitec VS 6	2	0.37	1.64/ 0.94	48 894 778	17.0	48 894 832	20.5	..000K55..	48 894 796	25.9	–	–
Movitec VS 6	3	0.75	2.99/ 1.73	48 894 779	21.0	48 894 833	24.6	..000K75..	48 894 797	29.6	–	–
Movitec VS 6	4	1.1	4.22/ 2.43	48 894 780	24.0	48 894 834	27.6	..001K10..	48 894 798	32.5	–	–
Movitec VS 6	5	1.1	4.22/ 2.43	48 894 781	24.5	48 894 835	28.1	..001K10..	48 894 799	33.0	–	–
Movitec VS 6	6	1.5	5.05/ 2.9	48 894 782	28.6	48 894 836	32.2	..001K50..	48 894 800	37.1	–	–
Movitec VS 6	7	1.5	5.05/ 2.9	48 894 783	29.1	48 894 837	32.7	..001K50..	48 894 801	37.6	–	–
Movitec VS 6	8	2.2	7.25/ 4.17	48 894 784	32.6	48 894 838	36.1	..002K20..	48 894 802	43.1	–	–
Movitec VS 6	9	2.2	7.25/ 4.17	48 894 785	33.1	48 894 839	36.6	..002K20..	48 894 803	43.6	–	–
Movitec VS 6	10	2.2	7.25/ 4.17	48 894 786	33.6	48 894 840	37.1	..002K20..	48 894 804	44.1	–	–
Movitec VS 6	11	3.0	5.55/ 3.22	48 894 787	43.4	48 894 841	47.0	..003K00..	48 894 805	54.0	–	–
Movitec VS 6	12	3.0	5.55/ 3.22	48 894 788	43.9	48 894 842	47.5	..003K00..	48 894 806	54.5	–	–
Movitec VS 6	14	3.0	5.55/ 3.22	48 894 789	44.4	48 894 843	48.0	..003K00..	48 894 807	55.0	–	–
Movitec VS 6	16	4.0	7.29/ 4.22	48 894 790	54.9	48 894 844	58.4	..004K00..	48 894 808	66.1	–	–
Movitec VS 6	18	4.0	7.29/ 4.22	–	–	48 894 791	59.4	..004K00..	–	–	48 894 809	70.6
Movitec VS 6	20	5.5	10.07/ 5.84	–	–	48 894 792	76.4	..005K50..	–	–	48 894 810	88.5
Movitec VS 6	22	5.5	10.07/ 5.84	–	–	48 894 793	77.4	..005K50..	–	–	48 894 811	89.4
Movitec VS 6	24	5.5	10.07/ 5.84	–	–	48 894 794	77.9	..005K50..	–	–	48 894 812	89.9
Movitec VS 6	26	5.5	10.07/ 5.84	–	–	48 894 795	78.4	..005K50..	–	–	48 894 813	90.4
Movitec VS 10	1	0.75	2.99/ 1.73	48 896 648	31.5	–	–	..000K75..	48 897 247	41.6	–	–
Movitec VS 10	2	0.75	2.99/ 1.73	48 896 649	32.2	–	–	..000K75..	48 897 248	42.3	–	–
Movitec VS 10	3	1.1	4.22/ 2.43	48 896 650	35.7	–	–	..001K10..	48 897 249	45.9	–	–
Movitec VS 10	4	1.5	5.05/ 2.9	48 896 651	41.5	–	–	..001K50..	48 897 250	51.6	–	–
Movitec VS 10	5	2.2	7.25/ 4.17	48 896 652	45.4	–	–	..002K20..	48 897 251	57.5	–	–
Movitec VS 10	6	2.2	7.25/ 4.17	48 896 653	46.8	–	–	..002K20..	48 897 252	58.9	–	–
Movitec VS 10	7	3.0	5.55/ 3.22	48 896 654	56.1	–	–	..003K00..	48 897 253	68.8	–	–
Movitec VS 10	8	3.0	5.55/ 3.22	48 896 655	57.4	–	–	..003K00..	48 897 254	70.1	–	–
Movitec VS 10	9	4.0	7.25/ 4.17	48 896 656	64.3	–	–	..004K00..	48 897 255	78.5	–	–
Movitec VS 10	10	4.0	7.25/ 4.17	48 896 657	65.7	–	–	..004K00..	48 897 256	79.9	–	–
Movitec VS 10	11	4.0	7.25/ 4.17	48 896 658	67.1	–	–	..004K00..	48 897 257	81.3	–	–
Movitec VS 10	13	5.5	10.07/ 5.84	48 896 659	108.8	–	–	..005K50..	48 897 258	124.8	–	–
Movitec VS 10	15	5.5	10.07/ 5.84	–	–	48 896 660	114.1	..005K50..	–	–	48 897 259	130.1
Movitec VS 10	17	7.5	13.6 / 7.88	–	–	48 896 661	123.4	..007K50..	–	–	48 897 260	139.3
Movitec VS 10	19	7.5	13.6 / 7.88	–	–	48 896 662	126.2	..007K50..	–	–	48 897 261	142.2
Movitec VS 10	21	7.5	13.6 / 7.88	–	–	48 896 663	129.0	..007K50..	–	–	48 897 262	145.0

[1] IE2 for motor ratings ≥0.75 kW

[2] Voltage for variable-speed motors generally 3~400 V, currents see type series booklet 4070.5-10

Movitec VS
Mechanical seal in “Easy-Access” design, code 14, motor IE2
3~230/400 V up to 2.2 kW, 3 kW and above: 3~400/692 V

Size	Number of stages	Motor rating	Max. current	Oval flange Movitec VS fixed-speed		Round flange Movitec VSF fixed-speed		Pump-Drive [2]	Oval flange Movitec VS variable-speed		Round flange Movitec VSF variable-speed	
		kW	I_{max} in A	Ident. No.	kg	Ident. No.	kg	Type	Ident. No.	kg	Ident. No.	kg
2-pole												
Movitec VS 15	1	1.1	4.22/ 2.43	48 896 875	33.2	48 896 889	37.3	..001K10..	48 897 291	43.3	–	–
Movitec VS 15	2	2.2	7.25/ 4.17	48 896 876	39.9	48 896 890	44.0	..002K20..	48 897 292	52.0	–	–
Movitec VS 15	3	3.0	5.55/ 3.22	48 896 877	48.7	48 896 891	52.9	..003K00..	48 897 293	61.5	–	–
Movitec VS 15	4	4.0	7.25/ 4.17	48 896 878	54.2	48 896 892	58.4	..004K00..	48 897 294	68.4	–	–
Movitec VS 15	5	5.5	10.07/ 5.84	48 896 879	92.5	48 896 893	96.6	..005K50..	48 897 295	108.4	–	–
Movitec VS 15	6	5.5	10.07/ 5.84	48 896 880	93.0	48 896 894	97.2	..005K50..	48 897 296	109.0	–	–
Movitec VS 15	7	7.5	13.6 / 7.88	48 896 881	97.5	48 896 895	101.7	..007K50..	48 897 297	113.5	–	–
Movitec VS 15	8	7.5	13.6 / 7.88	48 896 882	99.6	48 896 896	103.7	..007K50..	48 897 298	115.5	–	–
Movitec VS 15	9	11.0	19.47/ 11.24	48 896 883	175.6	48 896 897	179.7	..011K00..	48 897 299	207.0	–	–
Movitec VS 15	10	11.0	19.47/ 11.24	48 896 884	176.2	48 896 898	180.3	..011K00..	48 897 300	207.5	–	–
Movitec VS 15	11	11.0	19.47/ 11.24	–	–	48 896 885	180.9	..011K00..	–	–	48 897 301	212.3
Movitec VS 15	13	15.0	26.35/ 15.21	–	–	48 896 886	195.1	..015K00..	–	–	48 897 302	226.4
Movitec VS 15	15	15.0	26.35/ 15.21	–	–	48 896 887	196.3	..015K00..	–	–	48 897 303	227.6
Movitec VS 15	17	15.0	26.35/ 15.21	–	–	48 896 888	197.4	..015K00..	–	–	48 897 304	228.8
4-pole												
Movitec VS 15	1	0.55	2.34/ 1.34	48 897 132	33.2	48 897 146	37.3	–	–	–	–	–
Movitec VS 15	2	0.55	2.34/ 1.34	48 897 133	33.5	48 897 147	37.6	–	–	–	–	–
Movitec VS 15	3	0.55	2.34/ 1.34	48 897 134	34.0	48 897 148	38.2	–	–	–	–	–
Movitec VS 15	4	0.55	2.34/ 1.34	48 897 135	34.5	48 897 149	38.7	–	–	–	–	–
Movitec VS 15	5	0.55	2.34/ 1.34	48 897 136	35.7	48 897 150	39.9	–	–	–	–	–
Movitec VS 15	6	0.75	3.09/ 1.78	48 897 137	37.2	48 897 151	41.4	–	–	–	–	–
Movitec VS 15	7	0.75	3.09/ 1.78	48 897 138	37.8	48 897 152	41.9	–	–	–	–	–
Movitec VS 15	8	1.1	4.71/ 2.40	48 897 139	40.1	48 897 153	44.3	–	–	–	–	–
Movitec VS 15	9	1.1	4.71/ 2.40	48 897 140	41.2	48 897 154	45.4	–	–	–	–	–
Movitec VS 15	10	1.1	4.71/ 2.40	48 897 141	41.8	48 897 155	46.0	–	–	–	–	–
Movitec VS 15	11	1.5	5.61/ 3.22	48 897 142	44.4	48 897 156	48.5	–	–	–	–	–
Movitec VS 15	13	1.5	5.61/ 3.22	48 897 143	45.6	48 897 157	49.7	–	–	–	–	–
Movitec VS 15	15	2.2	8.19/ 4.71	48 897 144	54.6	48 897 158	58.8	–	–	–	–	–
Movitec VS 15	17	2.2	8.19/ 4.71	48 897 145	55.8	48 897 159	59.9	–	–	–	–	–

[1]) IE2 for motor ratings ≥0.75 kW

[2]) Voltage for variable-speed motors generally 3~400 V, currents see type series booklet 4070.5-10

Movitec VS with KSB standard motor IE2 [1]), mechanical seal: “Easy Access” design, shaft seal code 23, fixed/variable-speed, PD Basic - 3~400/692 V

Size	Number of stages	Motor size	Motor rating	Rated current	Round flange Movitec VCF fixed-speed		Pump-Drive [2])	Round flange Movitec VCF variable-speed	
			kW	I_{nom} in A	Ident. No.	kg	Type	Ident. No.	kg
2-pole									
Movitec VCF 90	1-1	132	5.5	10.7 / 6.2	48 890 033	124	..005K50..	48 890 129	137
Movitec VCF 90	1	132	7.5	14.3 / 8.3	48 890 032	153	..007K50..	48 890 128	166
Movitec VCF 90	2-2	160M	11	20.3 / 11.7	48 890 036	206	..011K00..	48 890 132	234
Movitec VCF 90	2-1	160M	15	26.7 / 15.4	48 890 035	212	..015K00..	48 890 131	240
Movitec VCF 90	2	160M	15	26.7 / 15.4	48 890 034	212	..015K00..	48 890 130	240
Movitec VCF 90	3-2	160L	18.5	33.7 / 23.5	48 890 039	236	..018K50..	48 890 135	271
Movitec VCF 90	3-1	180M	22	39.8 / 23.0	48 890 038	272	..022K00..	48 890 134	307
Movitec VCF 90	3	180M	22	39.8 / 23.0	48 890 037	272	..022K00..	48 890 133	307
Movitec VCF 90	4-2	200L	30	52.8 / 30.5	48 890 042	374	..030K00..	48 890 138	437
Movitec VCF 90	4-1	200L	30	52.8 / 30.5	48 890 041	374	..030K00..	48 890 137	437
Movitec VCF 90	4	200L	30	52.8 / 30.5	48 890 040	374	..030K00..	48 890 136	437
Movitec VCF 90	5-2	200L	37	64.5 / 37.3	48 890 045	404	..037K00..	48 890 141	467
Movitec VCF 90	5-1	200L	37	64.5 / 37.3	48 890 044	404	..037K00..	48 890 140	467
Movitec VCF 90	5	200L	37	64.5 / 37.3	48 890 043	404	..037K00..	48 890 139	467
Movitec VCF 90	6-2	225M	45	78.2 / 45.2	48 890 048	563	..045K00..	48 890 144	628
Movitec VCF 90	6-1	225M	45	78.2 / 45.2	48 890 047	563	..045K00..	48 890 143	628
Movitec VCF 90	6	225M	45	78.2 / 45.2	48 890 046	563	..045K00..	48 890 142	628

Movitec VF with KSB standard motor IE2 [1]), mechanical seal: “Easy Access” design, shaft seal code 13, fixed/variable-speed, PD Basic - 3~400/692 V

Size	Number of stages	Motor size	Motor rating	Rated current	Round flange Movitec VF fixed-speed		Pump-Drive [2])	Round flange Movitec VF variable-speed	
			kW	I_{nom} in A	Ident. No.	kg	Type	Ident. No.	kg
2-pole									
Movitec VF 90	1-1	132	5.5	10.7 / 6.2	48 890 007	126	..005K50..	48 890 112	139
Movitec VF 90	1	132	7.5	14.3 / 8.3	48 890 006	155	..007K50..	48 890 111	168
Movitec VF 90	2-2	160M	11	20.3 / 11.7	48 890 010	208	..011K00..	48 890 115	236
Movitec VF 90	2-1	160M	15	26.7 / 15.4	48 890 009	214	..015K00..	48 890 114	412
Movitec VF 90	2	160M	15	26.7 / 15.4	48 890 008	214	..015K00..	48 890 113	412
Movitec VF 90	3-2	160L	18.5	33.7 / 19.5	48 890 013	238	..018K50..	48 890 118	273
Movitec VF 90	3-1	180M	22	39.8 / 23.0	48 890 012	274	..022K00..	48 890 117	309
Movitec VF 90	3	180M	22	39.8 / 23.0	48 890 011	274	..022K00..	48 890 116	309
Movitec VF 90	4-2	200L	30	52.8 / 30.5	48 890 016	376	..030K00..	48 890 121	439
Movitec VF 90	4-1	200L	30	52.8 / 30.5	48 890 015	376	..030K00..	48 890 120	439
Movitec VF 90	4	200L	30	52.8 / 30.5	48 890 014	376	..030K00..	48 890 119	439
Movitec VF 90	5-2	200L	37	64.5 / 37.3	48 890 019	406	..037K00..	48 890 124	469
Movitec VF 90	5-1	200L	37	64.5 / 37.3	48 890 018	406	..037K00..	48 890 123	469
Movitec VF 90	5	200L	37	64.5 / 37.3	48 890 017	406	..037K00..	48 890 122	469
Movitec VF 90	6-2	225M	45	78.2 / 45.2	48 890 022	564	..045K00..	48 890 127	629
Movitec VF 90	6-1	225M	45	78.2 / 45.2	48 890 021	564	..045K00..	48 890 128	629
Movitec VF 90	6	225M	45	78.2 / 45.2	48 890 020	564	..045K00..	48 890 125	629

[1]) IE2 for motor ratings ≥0.75 kW

[2]) Voltage for variable-speed motors generally 3~400 V, currents see type series booklet 4070.5-10

Movitec VSF with KSB standard motor IE2 [1]), mechanical seal: “Easy Access” design, shaft seal code 14, fixed/variable-speed, PD Basic - 3~400/692 V

Size	Number of stages	Motor size	Motor rating	Rated current	Round flange Movitec VSF fixed-speed		Pump-Drive [2])	Round flange Movitec VSF variable-speed	
			kW	I_{nom} in A	Ident. No.	kg	Type	Ident. No.	kg
2-pole									
Movitec VSF 90	1-1	132	5.5	10.7 / 6.2	48 890 059	126	..005K50..	48 890 146	139
Movitec VSF 90	1	132	7.5	14.3 / 8.3	48 890 058	155	..007K50..	48 890 145	168
Movitec VSF 90	2-2	160M	11	20.3 / 11.7	48 890 062	208	..011K00..	48 890 149	236
Movitec VSF 90	2-1	160M	15	26.7 / 15.4	48 890 061	214	..015K00..	48 890 148	412
Movitec VSF 90	2	160M	15	26.7 / 15.4	48 890 060	214	..015K00..	48 890 147	412
Movitec VSF 90	3-2	160L	18.5	33.7 / 19.5	48 890 065	238	..018K50..	48 890 152	273
Movitec VSF 90	3-1	180M	22	39.8 / 23.0	48 890 064	274	..022K00..	48 890 151	309
Movitec VSF 90	3	180M	22	39.8 / 23.0	48 890 063	274	..022K00..	48 890 150	309
Movitec VSF 90	4-2	200L	30	52.8 / 30.5	48 890 068	376	..030K00..	48 890 155	439
Movitec VSF 90	4-1	200L	30	52.8 / 30.5	48 890 067	376	..030K00..	48 890 154	439
Movitec VSF 90	4	200L	30	52.8 / 30.5	48 890 066	376	..030K00..	48 890 153	439
Movitec VSF 90	5-2	200L	37	64.5 / 37.3	48 890 071	404	..037K00..	48 890 158	469
Movitec VSF 90	5-1	200L	37	64.5 / 37.3	48 890 070	406	..037K00..	48 890 157	469
Movitec VSF 90	5	200L	37	64.5 / 37.3	48 890 069	406	..037K00..	48 890 156	469
Movitec VSF 90	6-2	225M	45	78.2 / 45.2	48 890 074	564	..045K00..	48 890 161	629
Movitec VSF 90	6-1	225M	45	78.2 / 45.2	48 890 073	564	..045K00..	48 890 160	629
Movitec VSF 90	6	225M	45	78.2 / 45.2	48 890 072	564	..045K00..	48 890 159	629

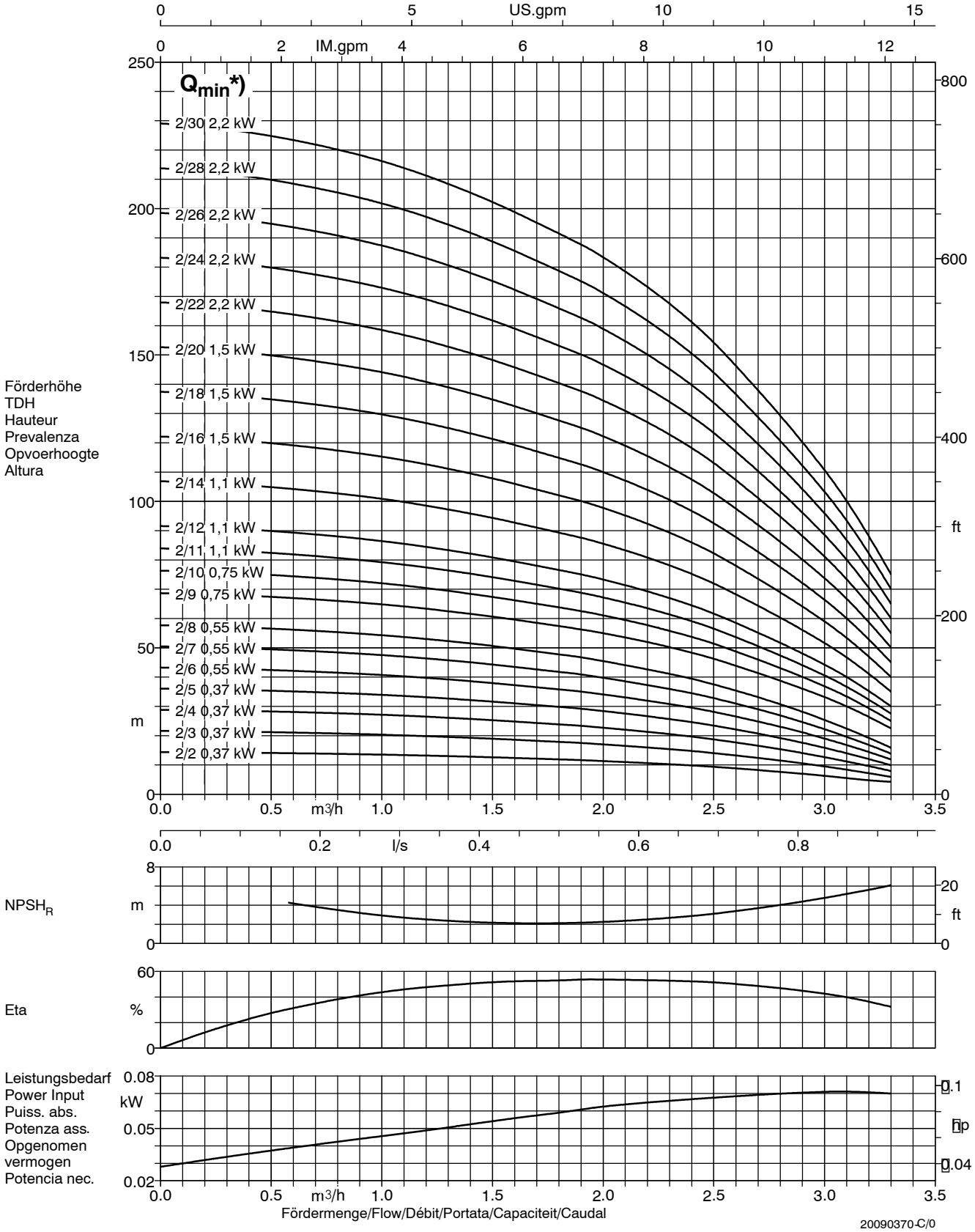
[1]) IE2 for motor ratings $\geq$0.75 kW

[2]) Voltage for variable-speed motors generally 3~400 V, currents see type series booklet 4070.5-10

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue	ø girante / Waaier ø / ø rodete
Movitec 2		≈2900 1/min		80 mm	

Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre	N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos.	N° pos / Pos. nr. / N° de art

KSB Aktiengesellschaft
67225 Frankenthal
Johann-Klein-Straße 9
67227 Frankenthal



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*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle	Nenndrehzahl / Nom. speed / Vitesse nom.	Laufrad-ø / Impeller dia. / Diamètre de roue
Tipo / Serie / Tipo	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	ø girante / Waaier ø / ø rodete
Movitec 4	≈2900 1/min	86 mm
Projekt / Project / Projet	Angebots-Nr. / Quotation No. / N° de l'offre	Pos.-Nr. / Item No. / N° de pos.
Progetto / Projekt / Proyecto	N° offerta / Offertenr. / N° oferta	N° pos / Pos. nr. / N° de art

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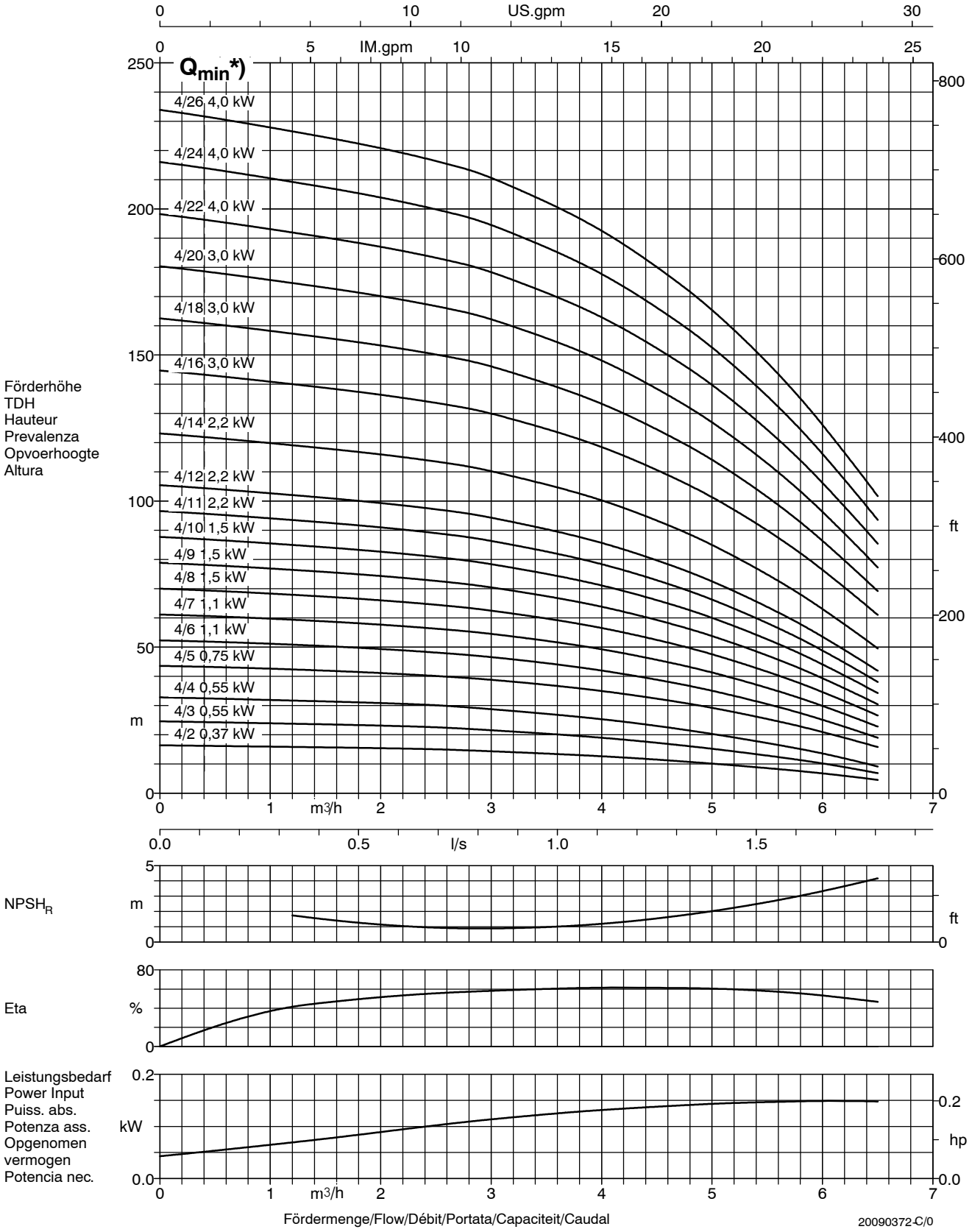

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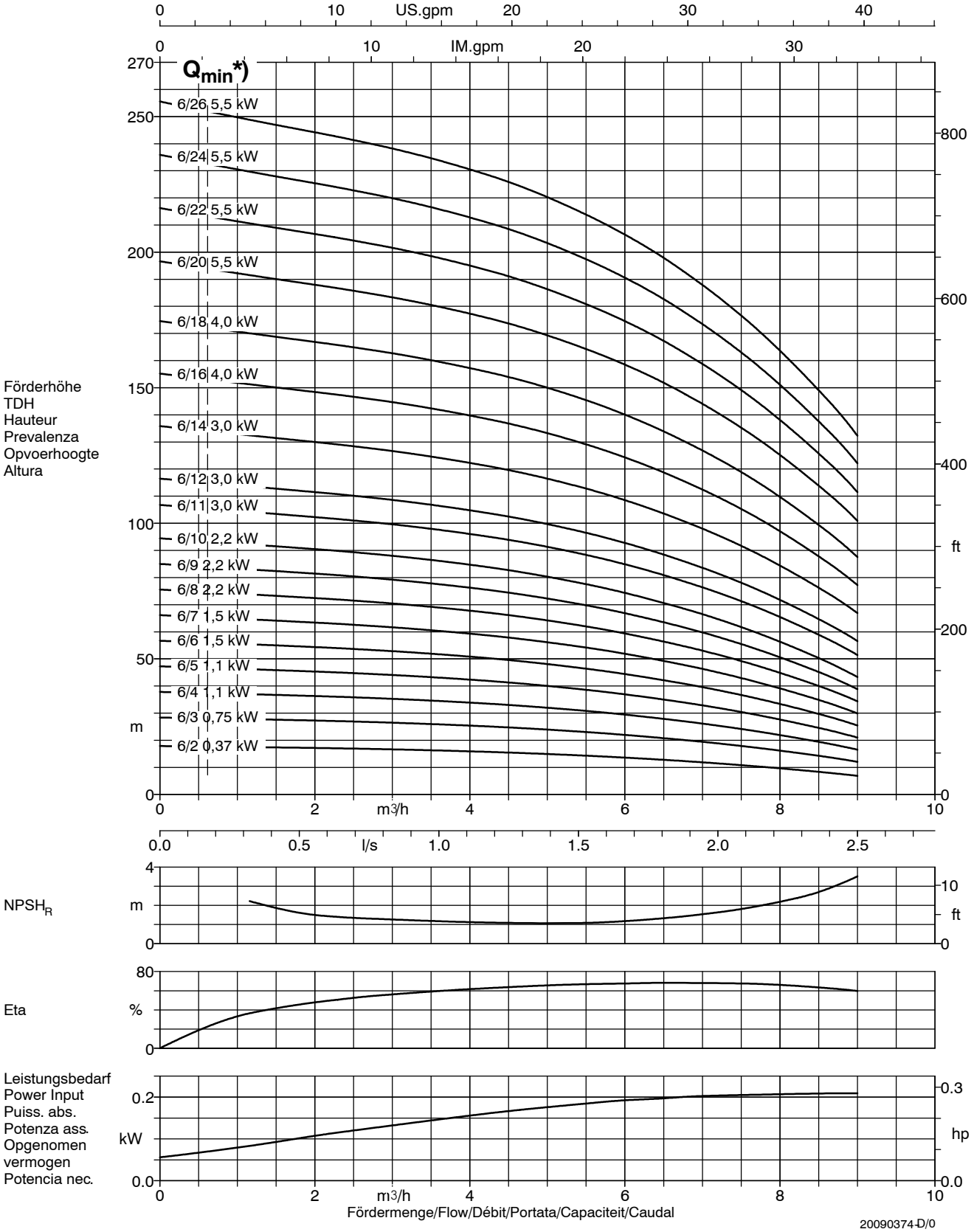
*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue	ø girante / Waaier ø / ø rodete
Movitec 6		≈2900 1/min		90 mm	
Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre	N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos.	N° pos / Pos. nr. / N° de art

KSB Aktiengesellschaft
67225 Frankenthal
Johann-Klein-Straße 9
67227 Frankenthal



20090374-D/0

*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue	ø girante / Waaier ø / ø rodete
Movitec 10		≈2900 1/min		96 mm	

Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre	N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos.	N° pos / Pos. nr. / N° de art

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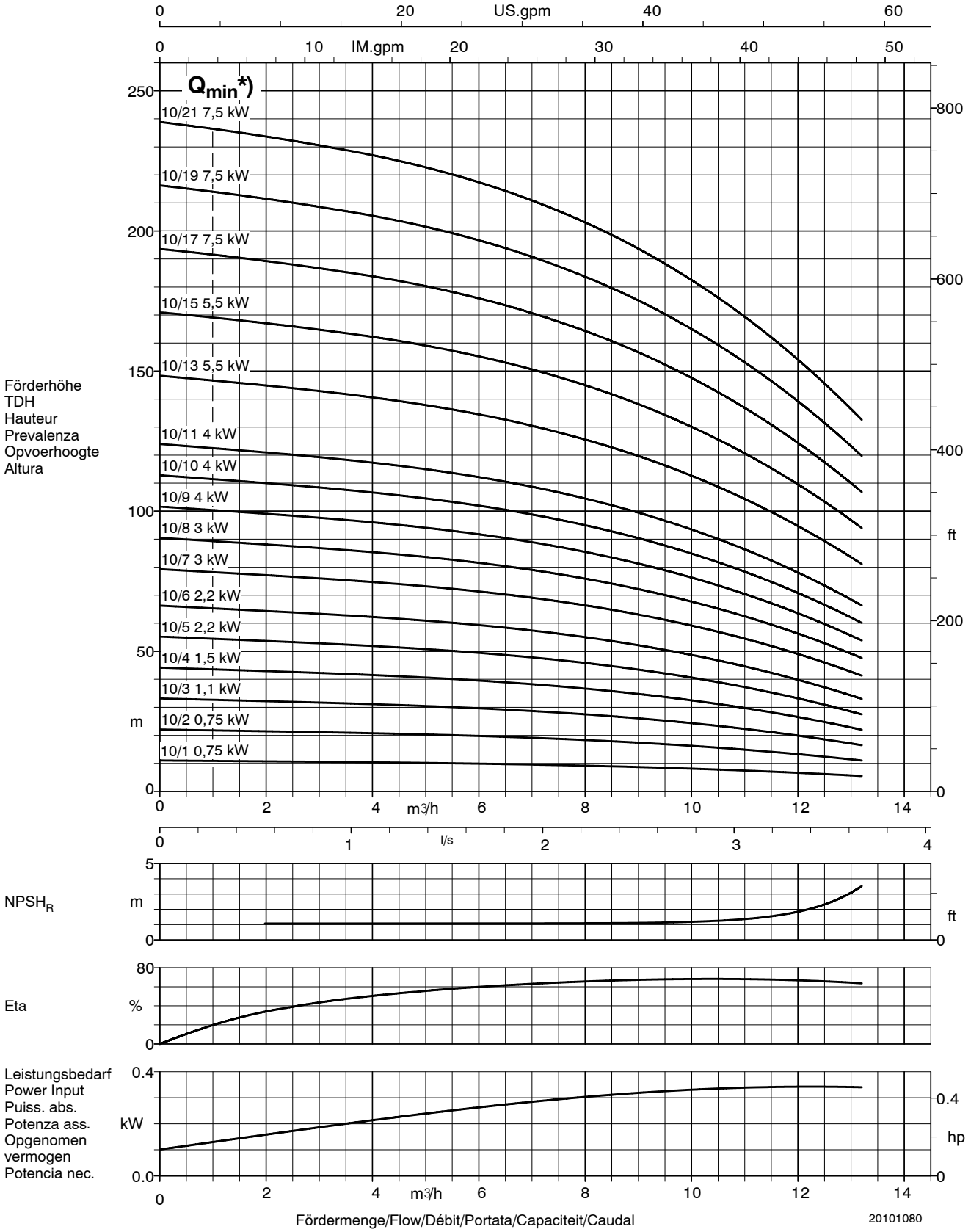

*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue	ø girante / Waaier ø / ø rodete
Movitec 10		≈1450 1/min		96 mm	
Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre	N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos.	N° pos / Pos. nr. / N° de art

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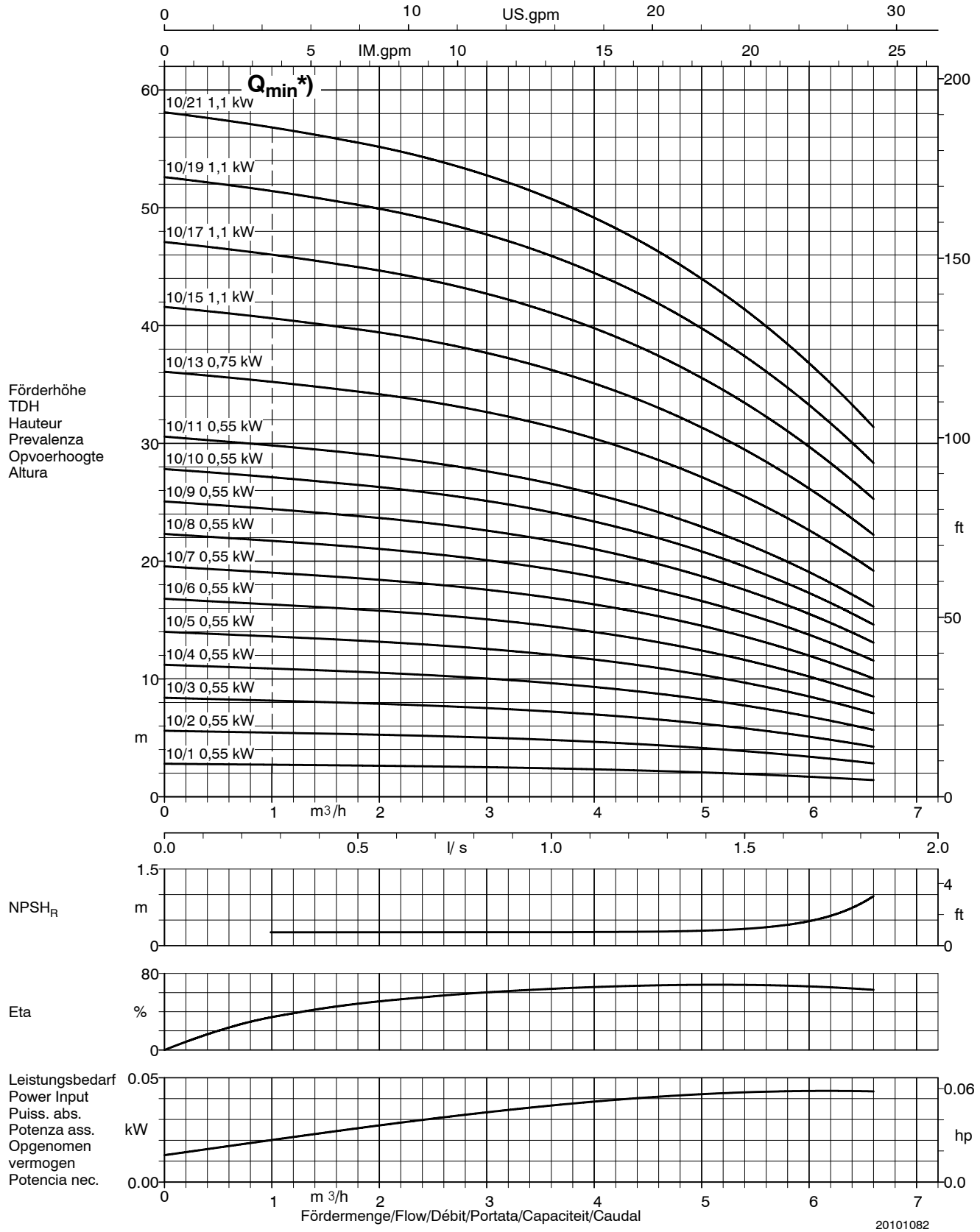

*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle / Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom. / Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue / ø girante / Waaier ø / ø rodete
Movitec 15	≈2900 1/min	110 mm

Projekt / Project / Projet / Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre / N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos. / N° pos / Pos. nr. / N° de art

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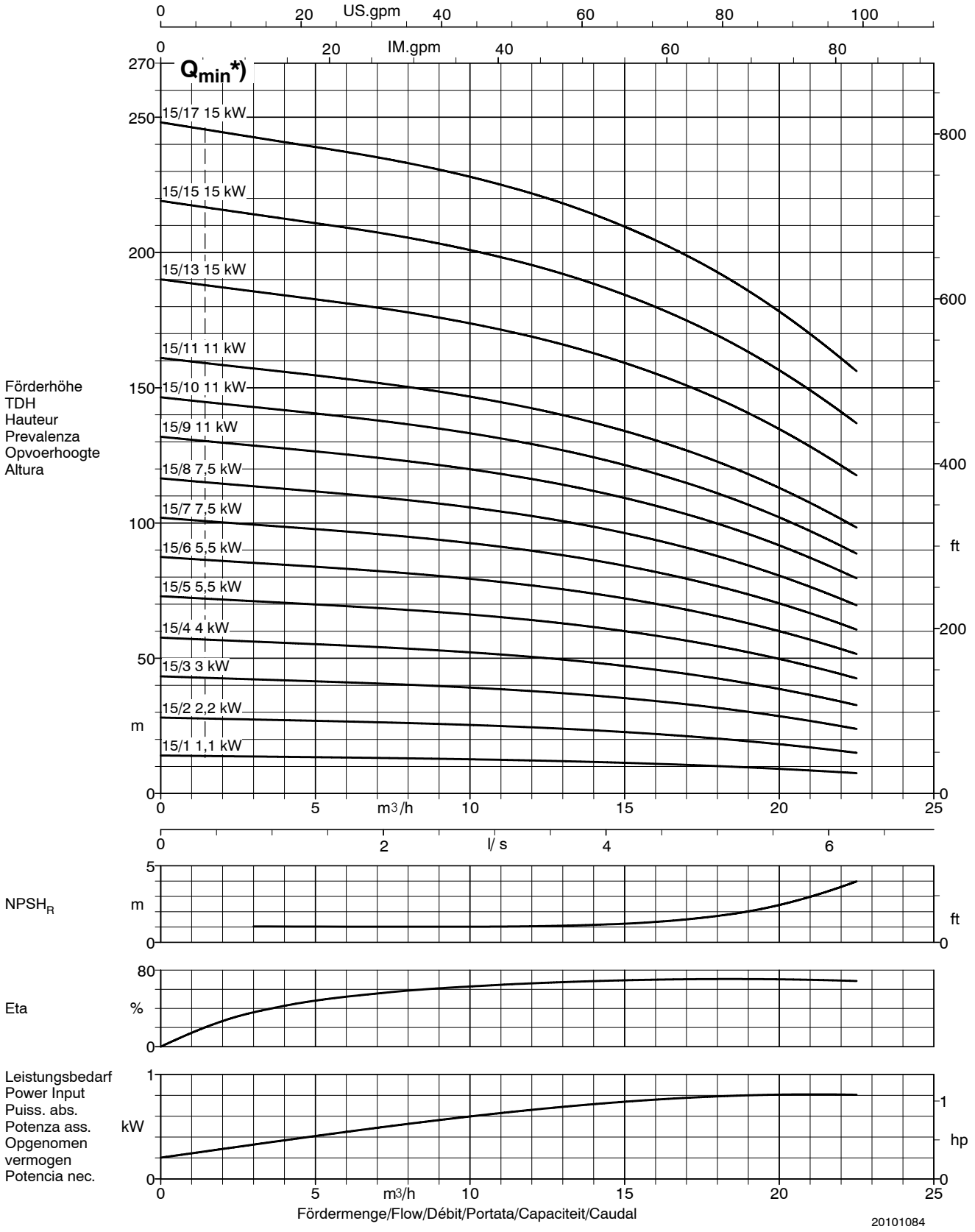

*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom. / Velocità di rotazione nom. / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue / ø girante / Waaier ø / ø rodete
Movitec 15	≈1450 1/min	110 mm

Projekt / Project / Projet / Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre / N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos. / N° pos / Pos. nr. / N° de art

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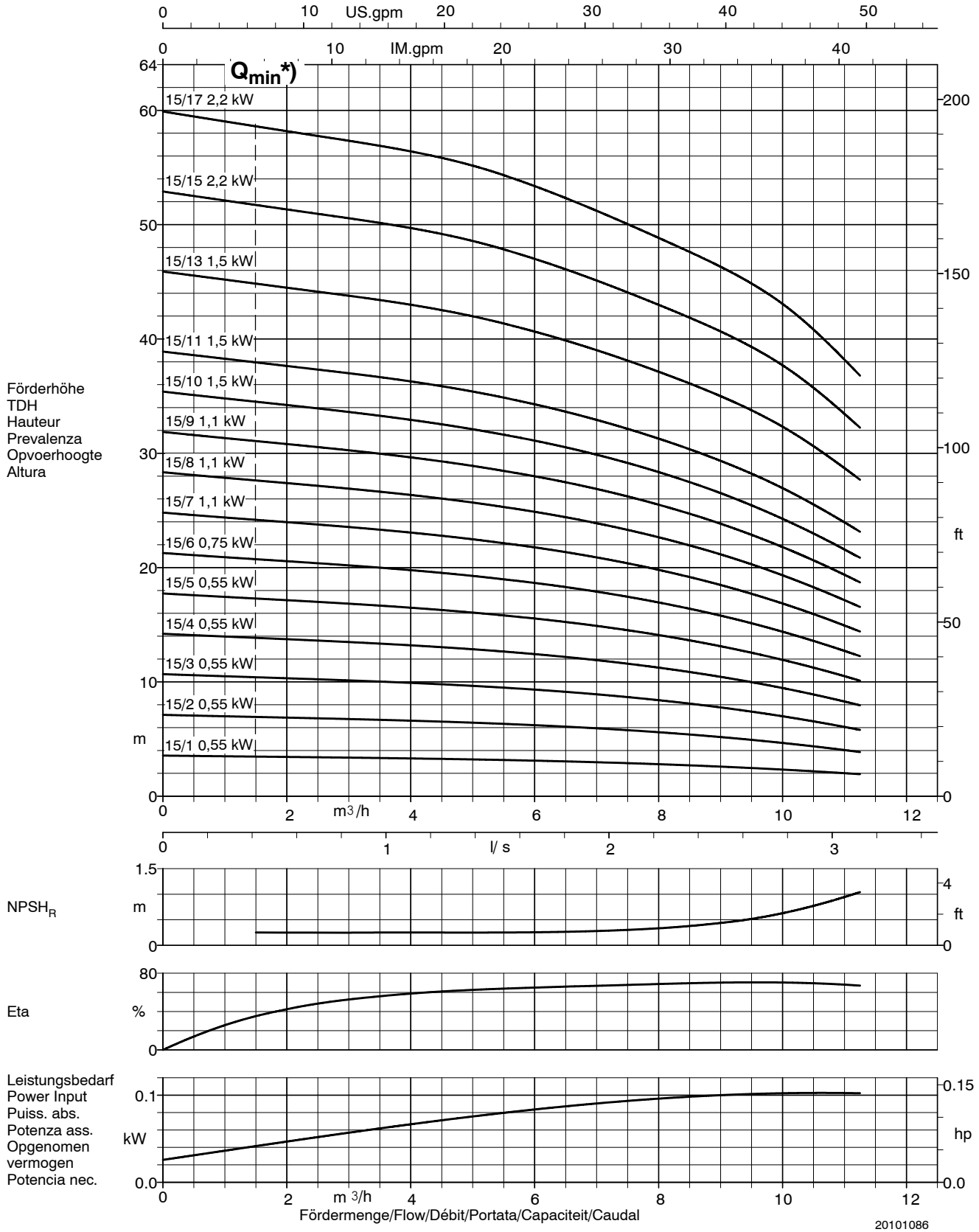

*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue	ø girante / Waaier ø / ø rodete
Movitec 90		≈2900 1/min			
Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre	N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos.	N° pos / Pos. nr. / N° de art

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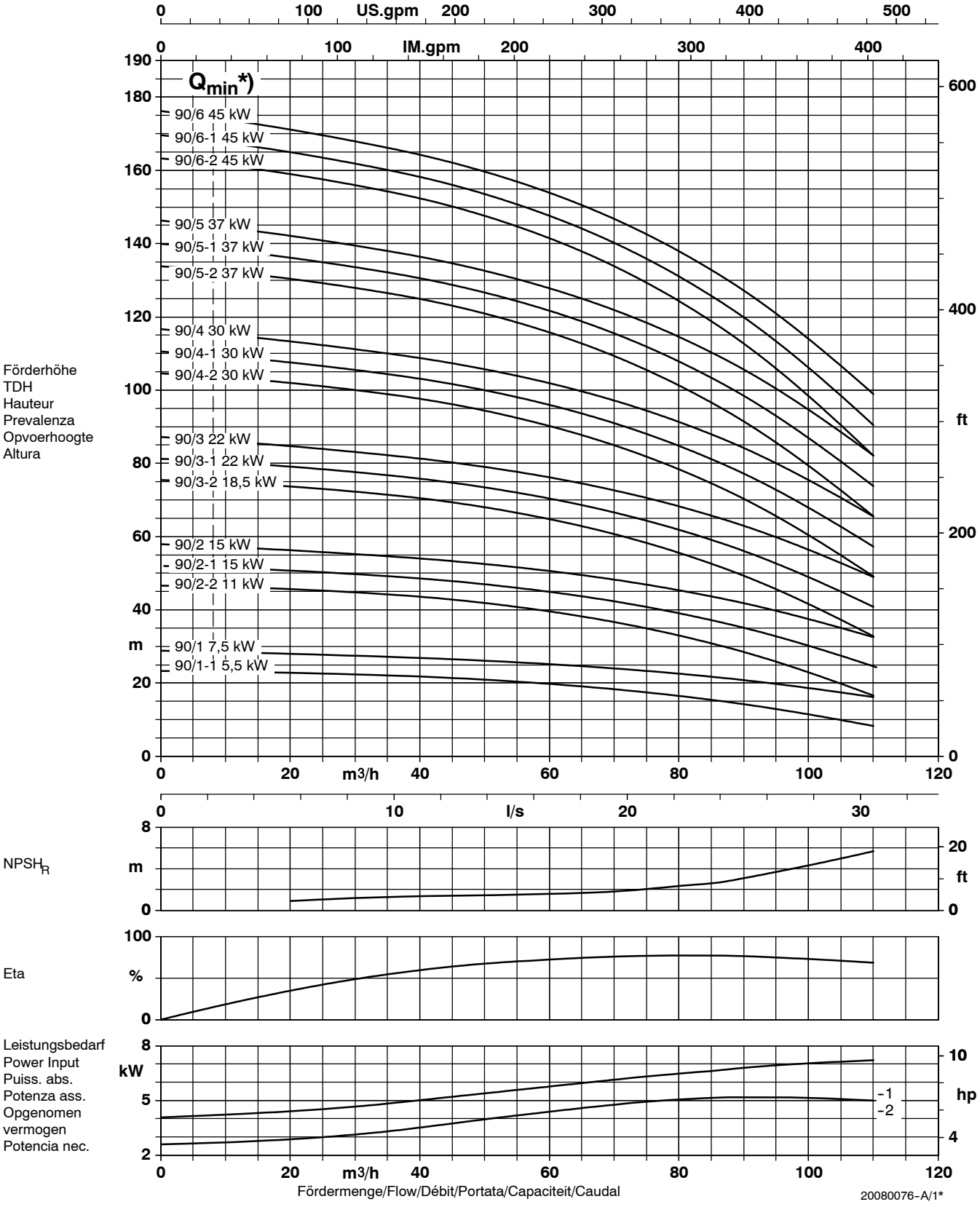

*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revoluciones nom.	Laufrad-ø / Impeller dia. / Diamètre de roue	ø girante / Waaier ø / ø rodete
Movitec 90		≈1450 1/min			
Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Quotation No. / N° de l'offre	N° offerta / Offertenr. / N° oferta	Pos.-Nr. / Item No. / N° de pos.	N° pos / Pos. nr. / N° de art

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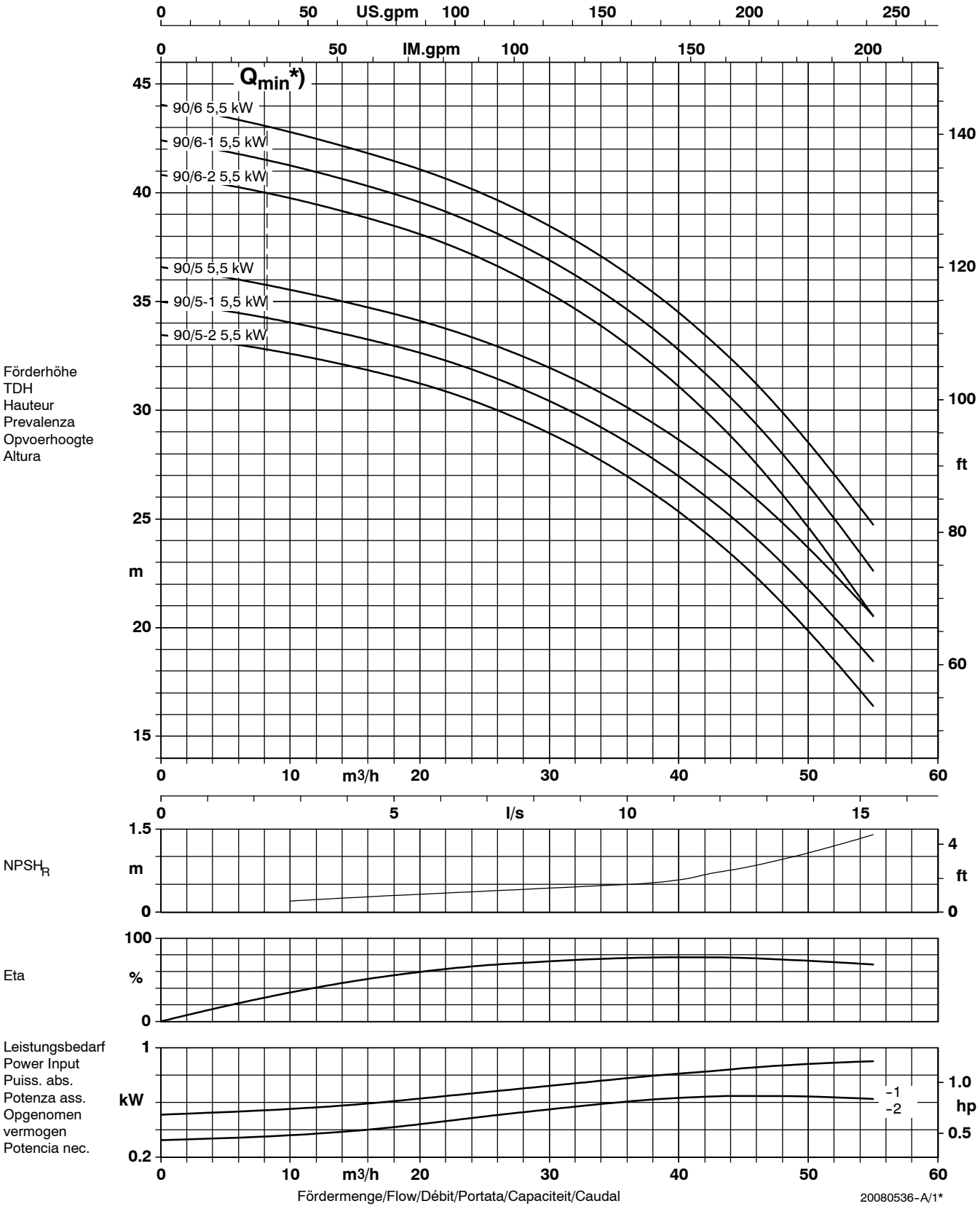
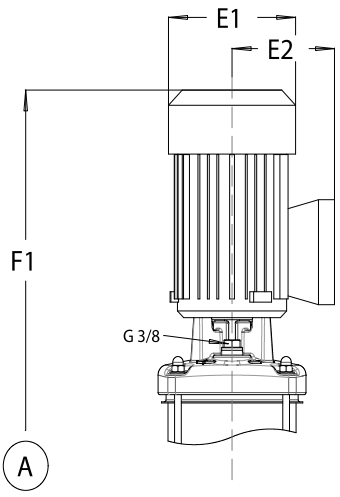
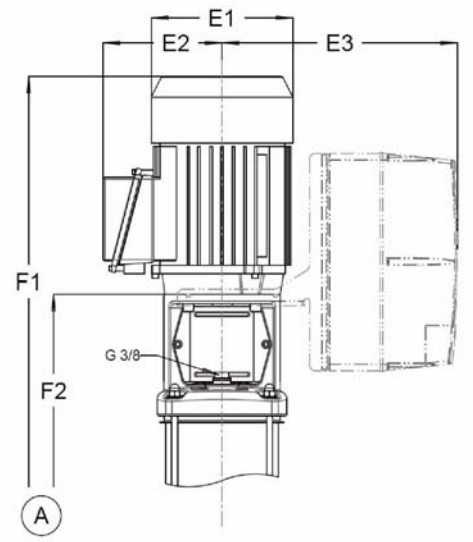


*) Qmin up to 40 °C, for temperatures >40 °C refer to the table on page 10

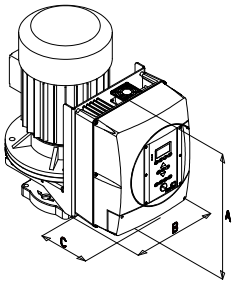
Dimensions tables
Movitec V 2 2900 1/min



VM 2 Stages	E1	E2	F1
2	138	109	420
3	138	109	441
4	138	109	463
5	138	108	484
6	138	109	506

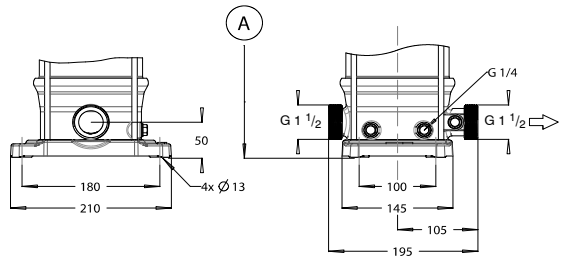


V 2					Oval flange Victaulic		Round flange	
Stages	**PD**	**E1**	**E2**	**E3**	**F1**	**F2**	**F1**	**F2**
2	**A**	138	109	251	472	259	497	284
3	**A**	138	109	251	493	280	518	305
4	**A**	138	109	251	515	302	540	327
5	**A**	138	109	251	536	323	561	348
6	**A**	138	109	251	558	345	583	370
7	**A**	138	109	251	579	366	604	391
8	**A**	138	109	251	601	388	626	413
9	**A**	160	150	251	676	419	701	444
10	**A**	160	150	251	698	441	723	466
11	**A**	160	150	251	719	462	744	487
12	**A**	160	150	251	741	484	766	509
14	**A**	160	150	286	784	527	809	552
16	**A**	185	160	286	833	580	858	605
18	**A**	185	160	286	876	623	901	648
20	**A**	185	160	286	919	666	944	691
22	**A**	185	160	286	–	–	1016	734
24	**B**	185	160	286	–	–	1059	777
26	**B**	185	160	286	–	–	1102	820
28	**B**	185	160	286	–	–	1145	863
30	**B**	185	160	286	–	–	1188	906

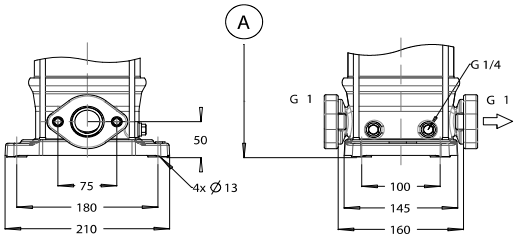


PumpDrive Model	Dimensions A	B	C
A	260	190	158
B	325	250	170

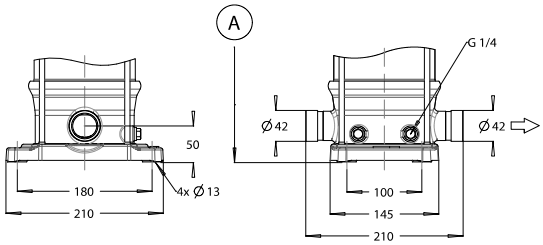
Dimensions in mm
Other motor and line connection options on request



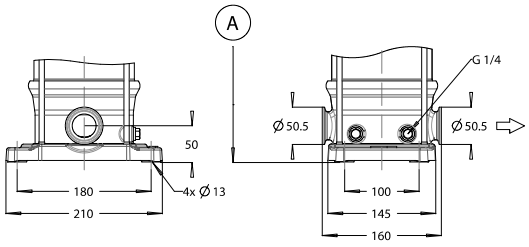
Movitec V(M)E, external thread
With discharge-side non-return valve insert and upstream pressure measurement plug
Standard: G EN ISO 228
Size: G 1 $^{1}/_{2}$
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308



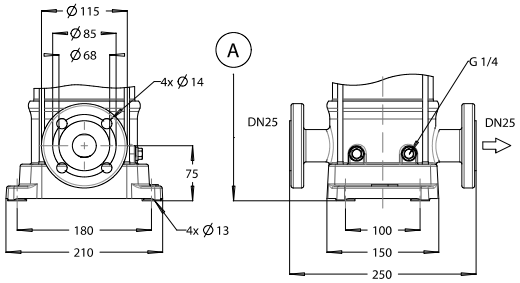
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 1
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308



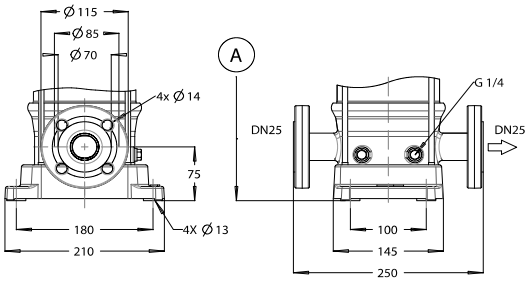
Movitec V (S) V Victaulic
Standard: –
Size: 42.2
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308



Movitec V (S) T Tri-Clamp
Standard: 32676
Size: DN 32
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

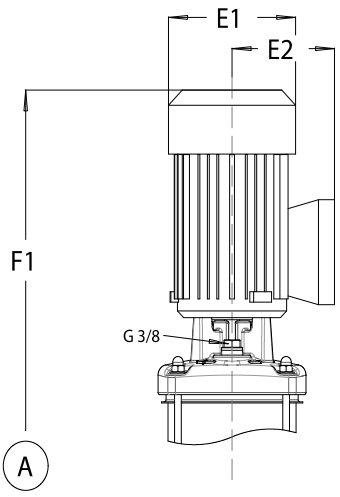


Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 25
Pressure class: PN 40

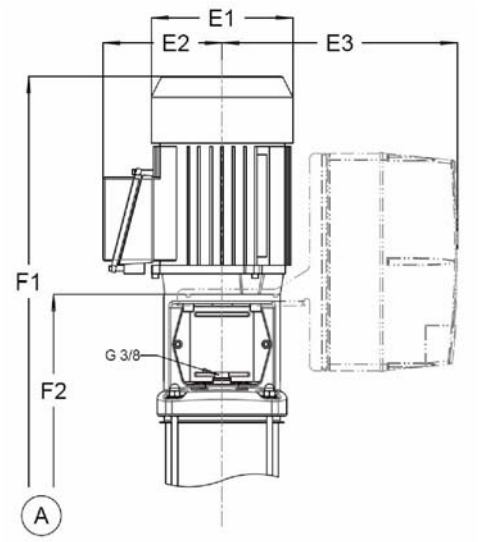


Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 25
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

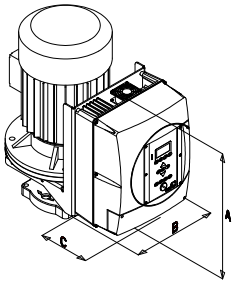
Dimensions tables
Movitec V 4 2900 1/min



VM 4 Stages	E1	E2	F1
2	138	109	420
3	138	109	441
4	158	109	463
5	160	150	528
6	160	150	556

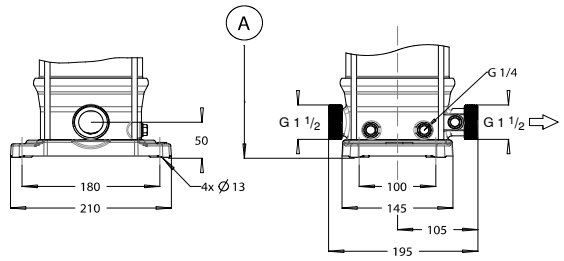


V 4					Oval flange Victaulic		Round flange	
Stages	**PD**	**E1**	**E2**	**E3**	**F1**	**F2**	**F1**	**F2**
2	**A**	138	109	251	472	259	497	284
3	**A**	138	109	251	493	280	518	305
4	**A**	138	109	251	515	302	540	327
5	**A**	160	150	251	590	333	615	358
6	**A**	160	150	251	612	355	637	380
7	**A**	160	150	251	633	376	658	401
8	**A**	185	160	286	661	408	686	433
9	**A**	185	160	286	682	429	707	454
10	**A**	185	160	286	704	451	729	476
11	**A**	185	160	286	754	472	779	497
12	**A**	185	160	286	776	494	801	519
14	**A**	185	160	286	819	537	844	562
16	**B**	205	175	286	904	590	929	615
18	**B**	205	175	286	–	–	972	658
20	**B**	205	175	286	–	–	1015	701
22	**B**	220	190	305	–	–	1067	744
24	**B**	220	190	305	–	–	1110	787
26	**B**	220	190	305	–	–	1153	830

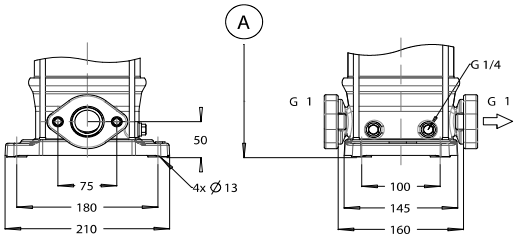


PumpDrive Model	Dimensions A	B	C
A	260	190	158
B	325	250	170

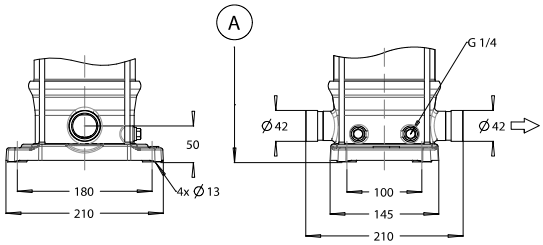
Dimensions in mm
Other motor and line connection options on request



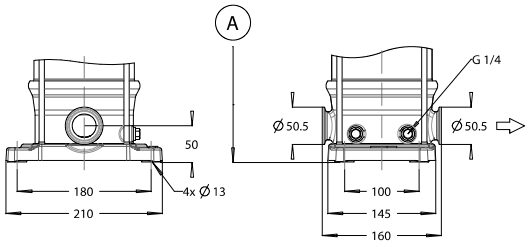
Movitec V(M)E, external thread
With discharge-side non-return valve insert and upstream pressure measurement plug
Standard: G EN ISO 228
Size: G 1 $^{1}/_{2}$
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308



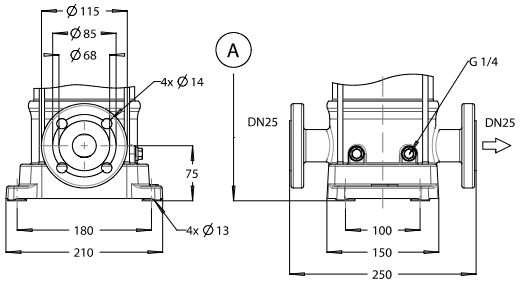
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 1
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308



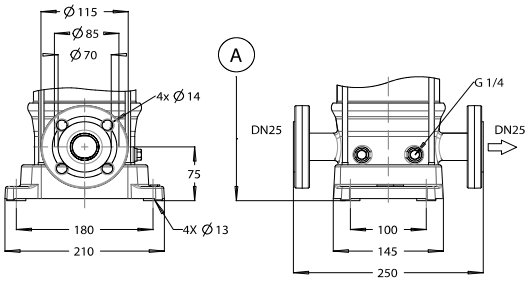
Movitec V (S) V Victaulic
Standard: –
Size: 42.2
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308



Movitec V (S) T Tri-Clamp
Standard: 32676
Size: DN 32
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

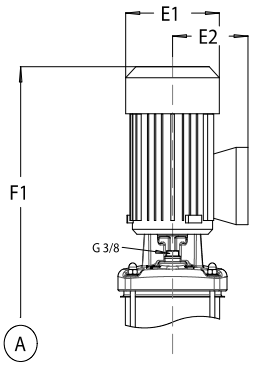


Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 25
Pressure class: PN 40

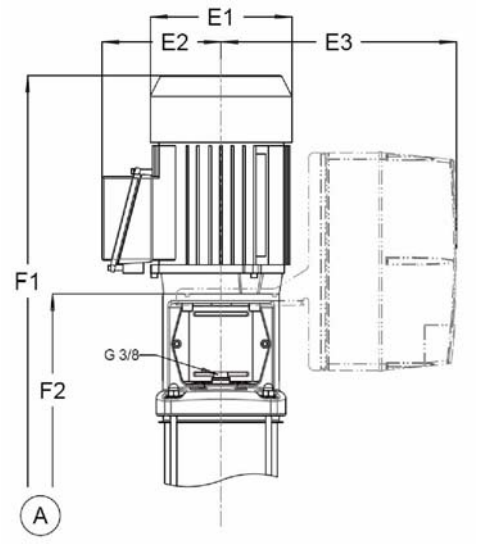


Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 25
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

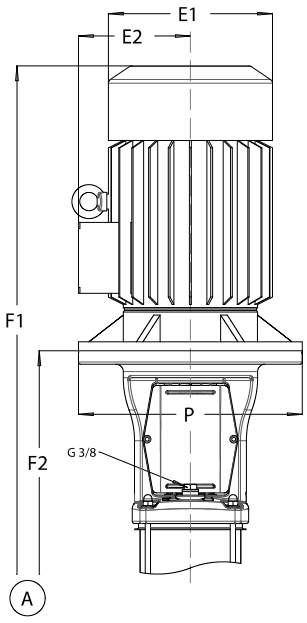
Dimensions tables
Movitec V 6 2900 1/min



VM 6 Stages	E1	E2	F1
2	138	109	427
3	160	150	496
4	160	150	521
5	160	150	546

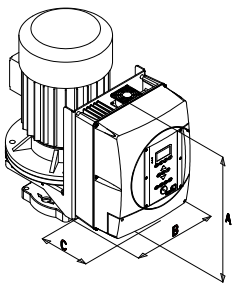


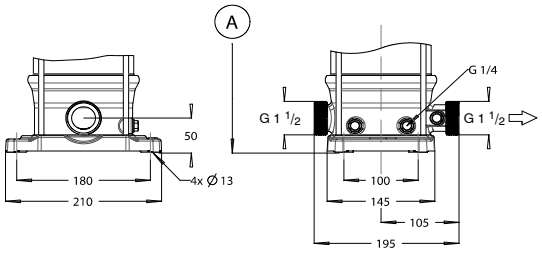
V 6					Oval flange Victaulic		Round flange	
Stages	**PD**	**E1**	**E2**	**E3**	**F1**	**F2**	**F1**	**F2**
2	**A**	138	109	251	479	266	504	291
3	**A**	160	150	251	558	301	563	326
4	**A**	160	150	251	583	326	608	351
5	**A**	160	150	251	608	351	633	376
6	**A**	185	160	286	639	386	664	411
7	**A**	185	160	286	664	411	689	436
8	**A**	185	160	286	718	436	743	461
9	**A**	185	160	286	743	461	768	486
10	**A**	185	160	286	768	486	793	511
11	**A**	205	175	286	835	521	860	546
12	**A**	205	175	286	860	546	885	571
14	**A**	205	175	286	910	596	935	621
16	**B**	220	190	305	869	646	994	671
18	**B**	220	190	305	–	–	1044	721
20	**B**	260	220	328	–	–	1193	847
22	**B**	260	220	328	–	–	1243	897
24	**B**	260	220	328	–	–	1293	947
26	**B**	260	220	328	–	–	1343	997



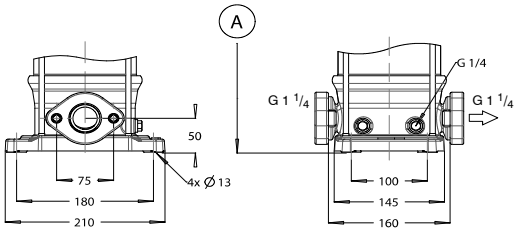
PumpDrive Model	Dimensions A	B	C
A	260	190	158
B	325	250	170

Dimensions in mm
Other motor and line connection options on request



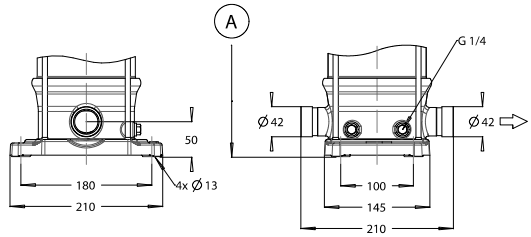


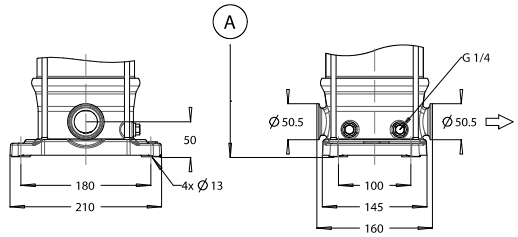
Movitec VE, external thread
With discharge-side non-return valve insert and upstream pressure measurement plug
Standard: G EN ISO 228
Size: G 1 $^1/_2$
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308



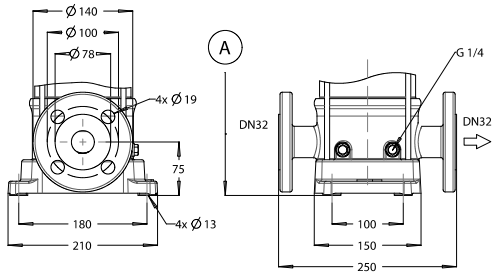
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 1 $^1/_4$
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308

Movitec V (S) V Victaulic
Standard: –
Size: 42.2
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308

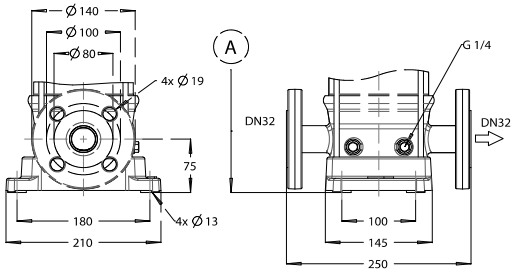




Movitec V (S) T Tri-Clamp
Standard: 32676
Size:DN 32
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

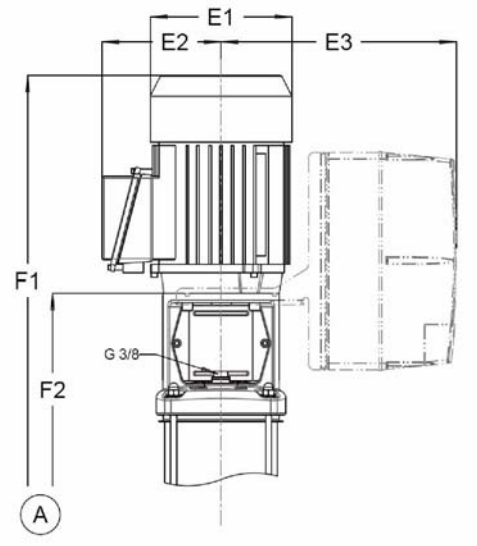


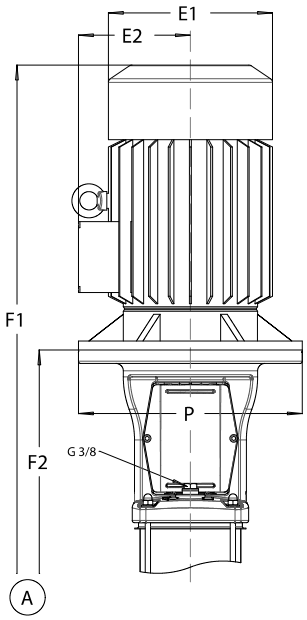
Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 32
Pressure class: PN 40



Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 32
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

Dimensions tables
Movitec V 10 2900 1/min

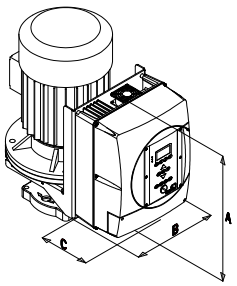


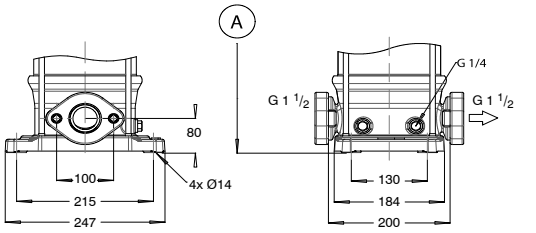


V 10					Oval flange Victaulic		Round flange	
Stages	PD	E1	E2	E3	F1	F2	F1	F2
1	A	160	150	262	621	346	621	346
2	A	160	150	262	621	346	621	346
3	A	160	150	262	647	372	647	372
4	A	185	160	275	679	409	679	409
5	A	185	160	275	720	435	720	435
6	A	185	160	275	747	462	747	462
7	A	205	175	285	828	498	828	498
8	A	205	175	285	855	525	855	525
9	B	205	175	297	891	551	891	551
10	B	205	175	297	918	578	918	578
11	B	205	175	297	944	604	944	604
13	B	260	220	324	1102	737	1102	737
15	B	260	220	324	1155	790	1155	790
17	B	260	220	324	1208	843	1208	843
19	B	260	220	324	1261	896	1261	896
21	B	260	220	324	1314	949	1314	949

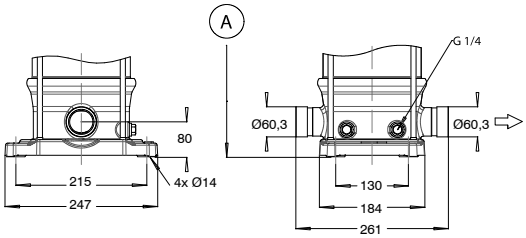
PumpDrive Model	Dimensions A	B	C
A	260	190	158
B	325	250	170

Dimensions in mm
Other motor and line connection options on request

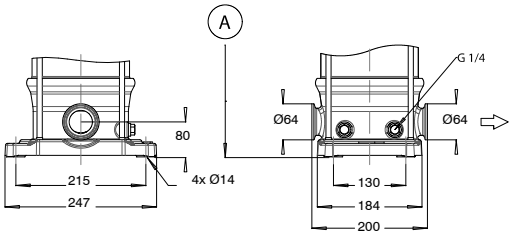




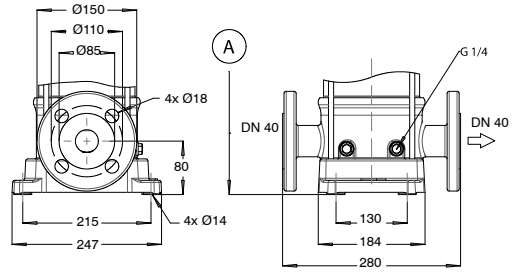
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 1 $^1/_2$
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308



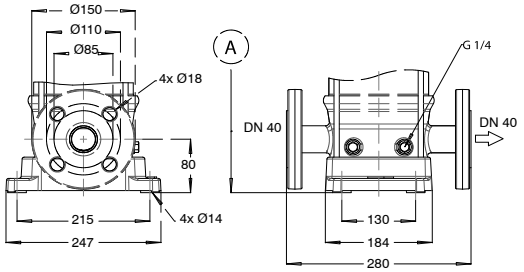
Movitec V (S) V Victaulic
Standard: –
Size: 60,3
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308



Movitec V (S) T Tri-Clamp
Standard: 32676
Size:DN 50
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

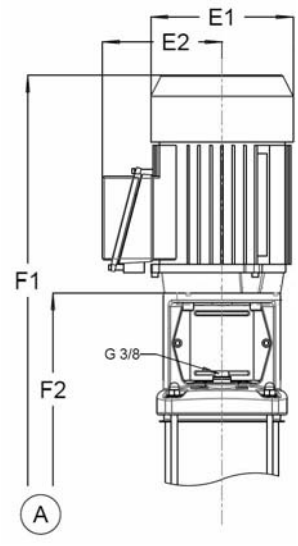


Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 40
Pressure class: PN 40



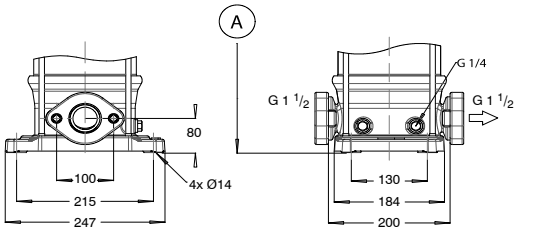
Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 40
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

Dimensions tables
Movitec V 10 1450 1/min

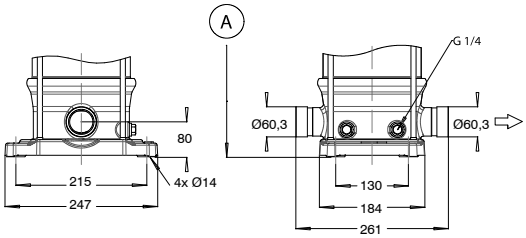


V 10			Oval flange Victaulic		Round flange	
Stages	E1	E2	F1	F2	F1	F2
1	138.5	110	592	346	592	346
2	138.5	110	592	346	592	346
3	138.5	110	618	372	618	372
4	138.5	110	645	399	645	399
5	138.5	110	671	425	671	425
6	138.5	110	698	452	698	452
7	138.5	110	724	478	724	478
8	138.5	110	750	505	750	505
9	138.5	110	777	531	777	531
10	138.5	110	804	558	804	558
11	138.5	110	830	584	830	584
13	159	155	912	672	912	672
15	159	155	970	700	970	700
17	159	155	1023	733	1023	753
19	159	155	1076	806	1076	806
21	159	155	1129	859	1129	859

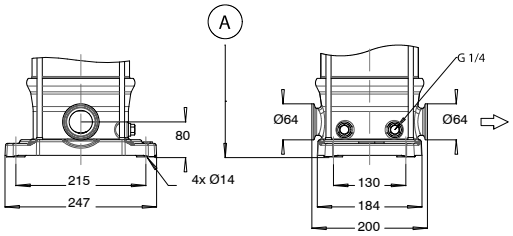
Dimensions in mm
Other motor and line connection options on request



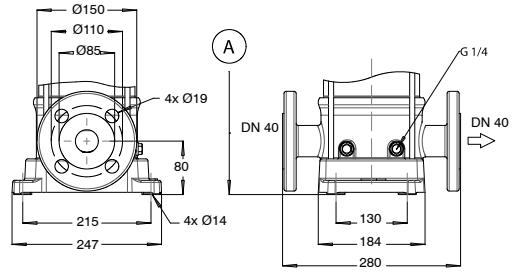
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 1 $^1/_2$
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308



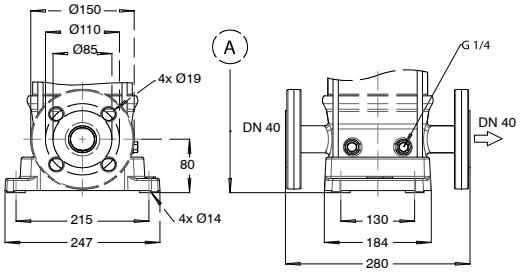
Movitec V (S) V Victaulic
Standard: –
Size: 60,3
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308



Movitec V (S) T Tri-Clamp
Standard: 32676
Size:DN 50
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

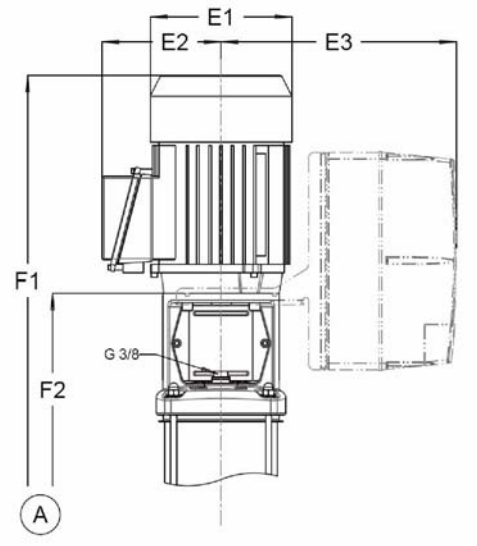


Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 40
Pressure class: PN 40

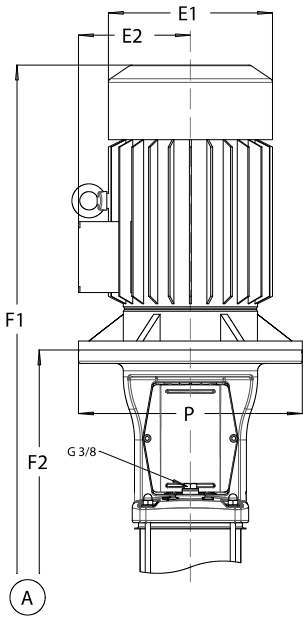


Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 40
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

Dimensions tables
Movitec V 15 2900 1/min

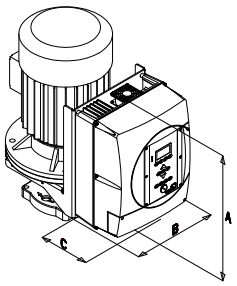


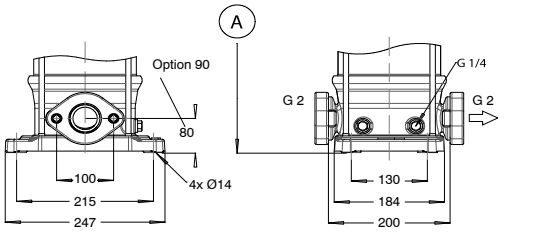
V 15					Oval flange Victaulic		Round flange	
Stages	PD	E1	E2	E3	F1	F2	F1	F2
1	A	160	150	262	621	346	631	356
2	A	185	160	275	641	356	651	366
3	A	205	175	285	722	392	732	402
4	B	205	175	297	759	419	769	429
5	B	260	220	324	890	525	900	535
6	B	260	220	324	916	551	926	561
7	B	260	220	324	943	578	953	588
8	B	260	220	324	969	604	979	614
9	C	315	265	417	1159	661	1169	671
10	C	315	265	417	1185	687	1195	697
11	C	315	265	417	1222	724	1222	724
13	C	315	265	417	1275	777	1275	777
15	C	315	265	417	1328	830	1328	830
17	C	315	265	417	1381	883	1381	883



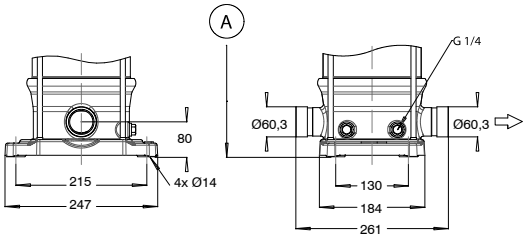
PumpDrive Model	Dimensions A	B	C
A	260	190	158
B	325	250	170
C	420	320	235

Dimensions in mm
Other motor and line connection options on request

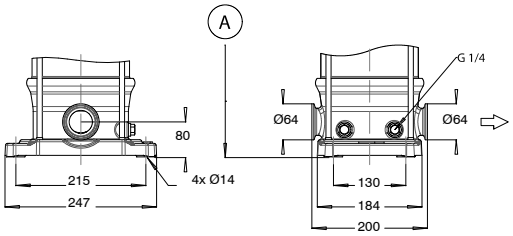




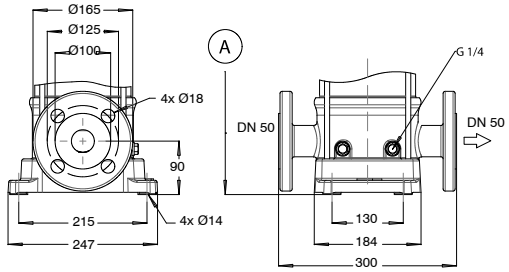
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 2
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308



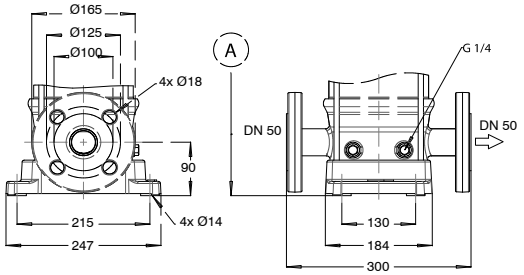
Movitec V (S) V Victaulic
Standard: –
Size: 60,3
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308



Movitec V (S) T Tri-Clamp
Standard: 32676
Size:DN 50
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

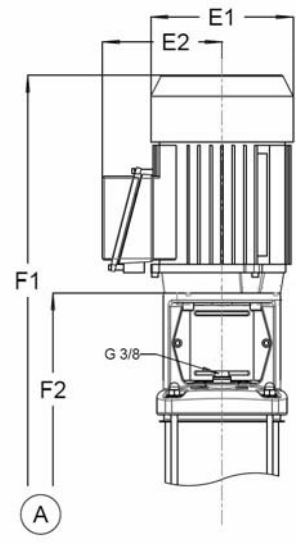


Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 50
Pressure class: PN 40



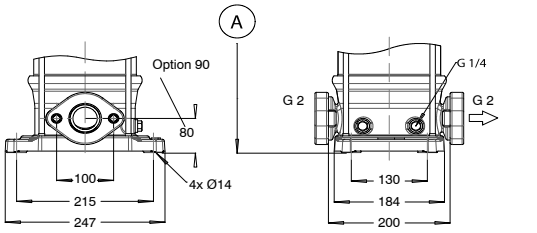
Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 50
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

Dimensions tables
Movitec V 15 1450 1/min

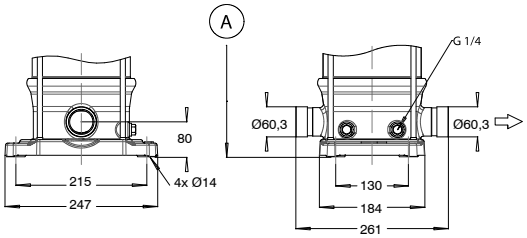


V 15			Oval flange Victaulic		Round flange	
Stages	E1	E2	F1	F2	F1	F2
1	138.5	110	592	346	602	356
2	138.5	110	592	346	602	356
3	138.5	110	618	372	628	382
4	138.5	110	645	399	655	409
5	138.5	110	671	425	681	435
6	159	155	727	452	737	462
7	159	155	758	488	768	498
8	159	155	785	515	795	525
9	159	155	811	541	821	551
10	159	155	838	568	848	578
11	176.5	160	879	594	889	604
13	176.5	160	932	647	942	657
15	176.5	160	1040	710	1050	720
17	176.5	160	1093	763	1103	773

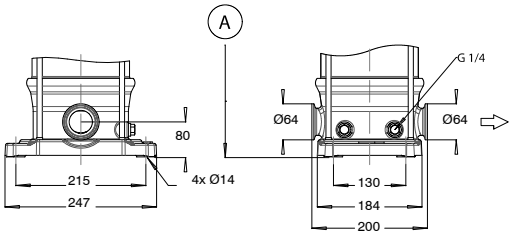
Dimensions in mm
Other motor and line connection options on request



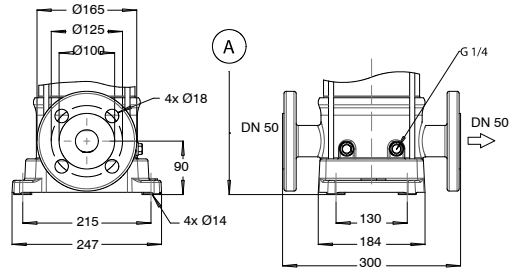
Movitec V (S)
Incl. counterflange with internal thread
Movitec V: cast iron with cataphoretic coating
Movitec VS: cast stainless steel 1.4408
Standard: G EN ISO 228
Size: G 2
Pressure class: PN 16
Option: flange and baseplate made of stainless steel 1.4308



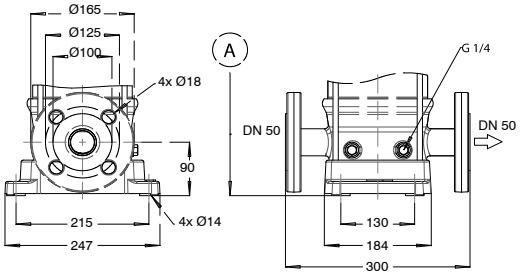
Movitec V (S) V Victaulic
Standard: –
Size: 60.3
Pressure class: PN 25
Option: baseplate made of cast stainless steel 1.4308



Movitec V (S) T Tri-Clamp
Standard: 32676
Size: DN 50
Pressure class: PN 16
Option: baseplate made of cast stainless steel 1.4308

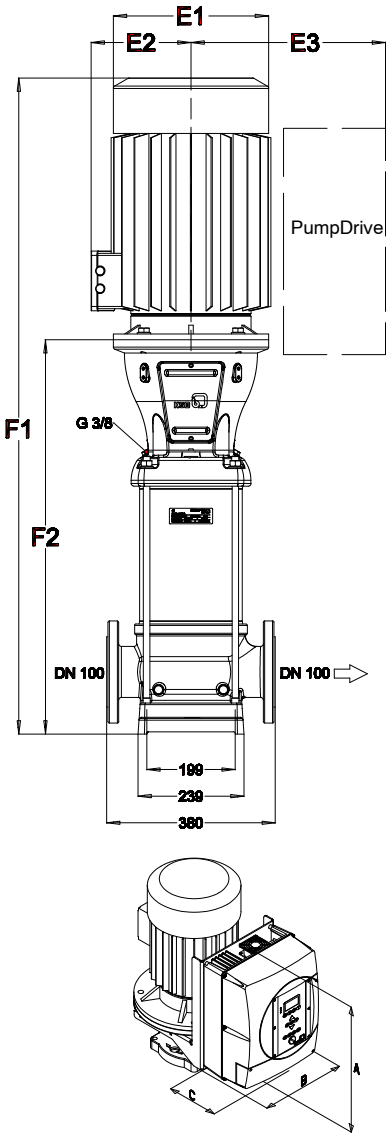


Movitec V C F, cast iron flange
Standard: EN 1092-1/1092-2
Size: DN 50
Pressure class: PN 40



Movitec V (S) F, round flange
Round flange with cataphoretic coating
Standard: EN 1092-1/1092-2
Size: DN 50
Pressure class: PN 40
Option: round flange and/or baseplate in cast stainless steel 1.4308

Dimensions tables
Movitec VCF 90 2900 1/min

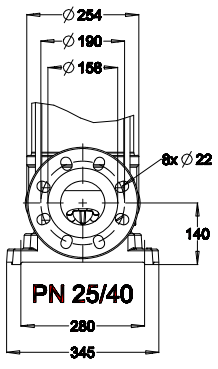
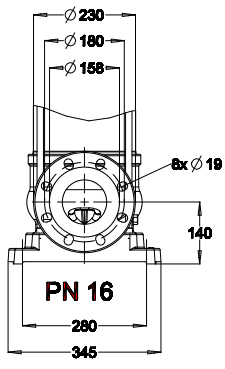


V(S)F 90 Stages	PD	E1	E2	E3	F1	F2
1-1	B	233	162	328	970	641
1	B	266	179	328	1062	641
2-2	C	315	206	431	1282	780
2-1	C	315	206	431	1282	780
2	C	315	206	431	1282	780
3-2	C	315	206	431	1435	889
3-1	C	350	225	431	1484	889
3	C	350	225	431	1484	889
4-2	D	450	355	520	1713	998
4-1	D	450	355	520	1713	998
4	D	450	355	520	1713	998
5-2	D	450	355	520	1822	1107
5-1	D	450	355	520	1822	1107
5	D	450	355	520	1822	1107
6-2	D	466	373	543	1953	1216
6-1	D	466	373	543	1953	1216
6	D	466	373	543	1953	1216

PumpDrive Model	Dimensions A	B	C
B	325	250	170
C	420	320	235
D	600	450	290

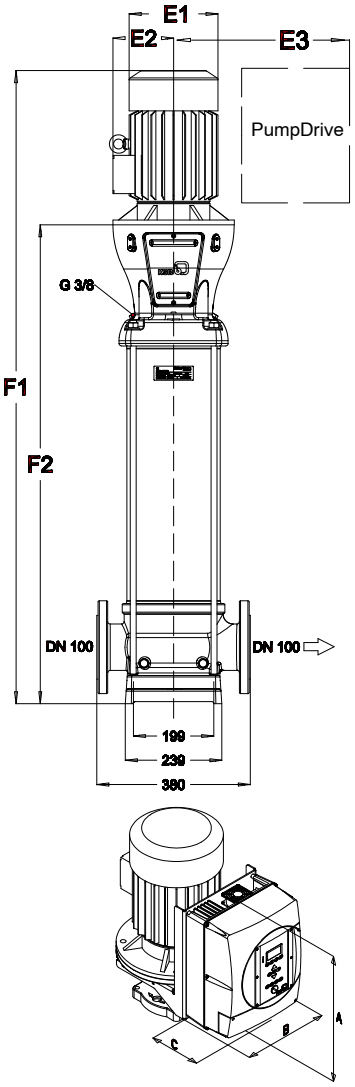
Dimensions in mm (details see type series booklet PumpDrive 4070.5-10)

Flange variants

Round flange PN 25/40 Movitec VCF	Round flange PN 16 Movitec VCF
	

Position of terminal box for all pump sizes see page 55

Dimensions tables
Movitec VCF 90 1450 1/min

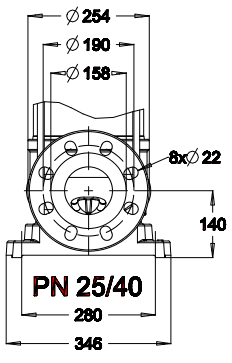
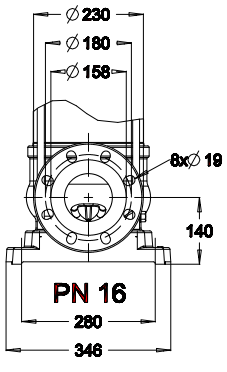


V(S)F 90 Stages	PD	E1	E2	E3	F1	F2
5-2	B	266	179	328	1460	1077
5-1	B	266	179	328	1460	1077
5	B	266	179	328	1460	1077
6-2	B	266	179	328	1569	1186
6-1	B	266	179	328	1569	1186
6	B	266	179	328	1569	1186

PumpDrive Model	Dimensions A	B	C
B	325	250	170

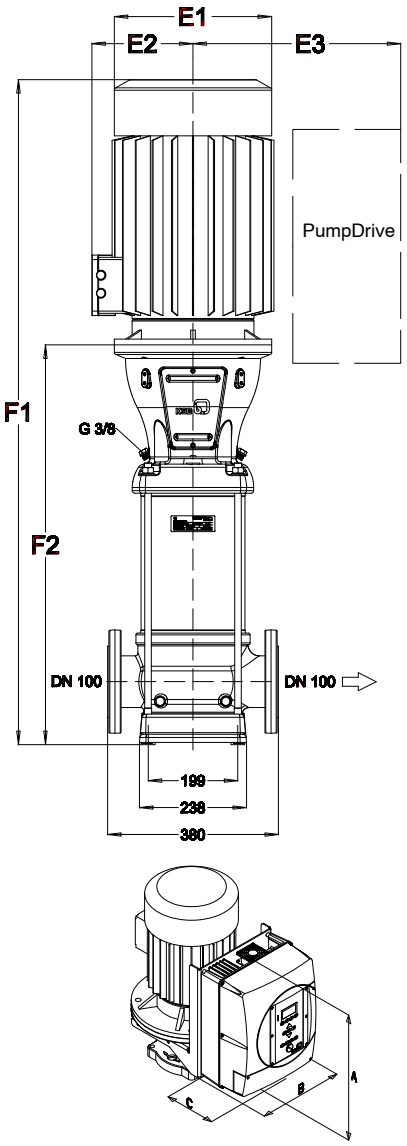
Dimensions in mm (details see type series booklet PumpDrive 4070.5-10)

Flange variants

Round flange PN 25/40 Movitec VCF	Round flange PN 16 Movitec VCF
	

Position of terminal box for all pump sizes see page 55

Dimensions tables
Movitec V(S)F 90 2900 1/min

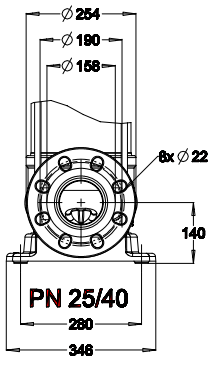
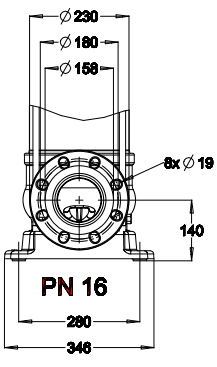


V(S)F 90 Stages	PD	E1	E2	E3	F1	F2
1-1	B	233	162	328	970	641
1	B	266	179	328	1062	641
2-2	C	315	206	431	1282	780
2-1	C	315	206	431	1282	780
2	C	315	206	431	1282	780
3-2	C	315	206	431	1435	889
3-1	C	350	225	431	1484	889
3	C	350	225	431	1484	889
4-2	D	450	355	520	1713	998
4-1	D	450	355	520	1713	998
4	D	450	355	520	1713	998
5-2	D	450	355	520	1822	1107
5-1	D	450	355	520	1822	1107
5	D	450	355	520	1822	1107
6-2	D	466	373	543	1953	1216
6-1	D	466	373	543	1953	1216
6	D	466	373	543	1953	1216

PumpDrive Model	Dimensions A	B	C
B	325	250	170
C	420	320	235
D	600	450	290

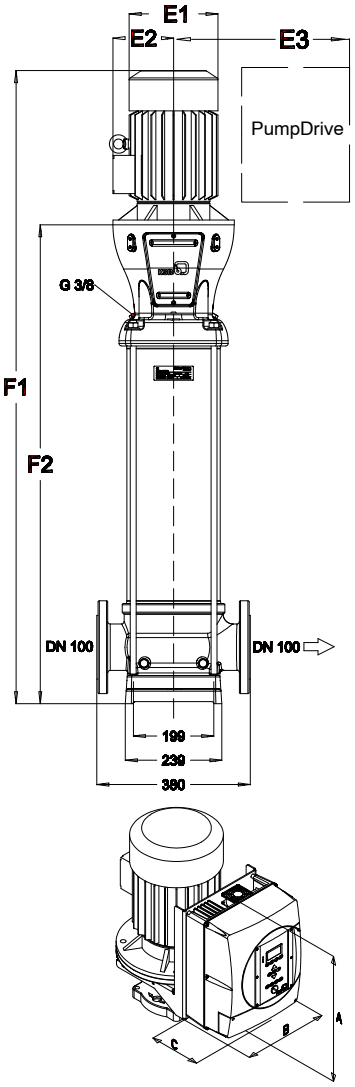
Dimensions in mm (details see type series booklet PumpDrive 4070.5-10)

Flange variants

Round flange PN 25/40 Movitec V(S)F	Round flange PN 16 Movitec V(S)F
	

Position of terminal box for all pump sizes see page 55

Dimensions tables
Movitec V(S)F 90 1450 1/min

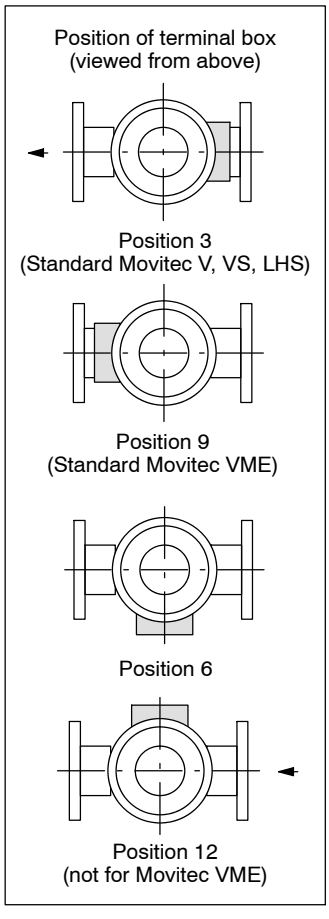


V(S)F 90 Stages	PD	E1	E2	E3	F1	F2
5-2	B	266	179	328	1460	1077
5-1	B	266	179	328	1460	1077
5	B	266	179	328	1460	1077
6-2	B	266	179	328	1569	1186
6-1	B	266	179	328	1569	1186
6	B	266	179	328	1569	1186

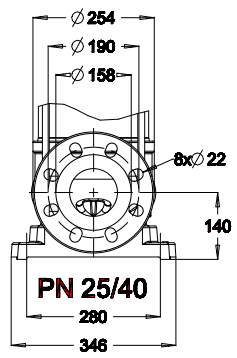
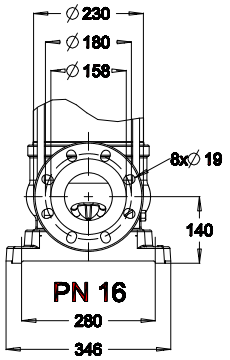
PumpDrive Model	Dimensions A	B	C
B	325	250	170

Dimensions in mm (details see type series booklet PumpDrive 4070.5-10)

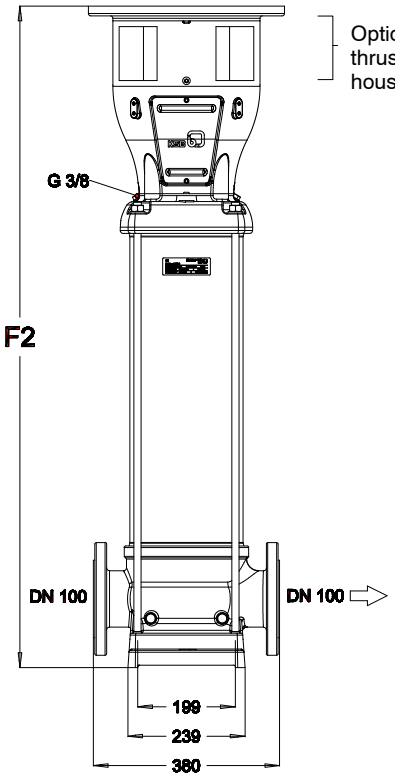
Position of terminal box for all sizes



Flange variants

Round flange PN 25/40 Movitec V(S)F	Round flange PN 16 Movitec V(S)F
	

Dimensions and weights
Movitec VCF 90 without motor – 2900 1/min

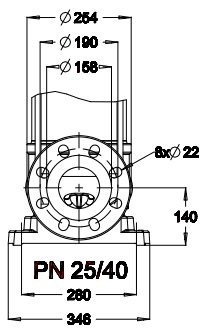
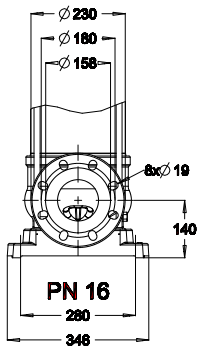


V(S)F 90	With bearing housing		Without bearing housing	
Stages	F2	kg	F2	kg
1-1	775	98	641	79
1	775	98	641	79
2-2	914	120	780	101
2-1	914	120	780	101
2	914	120	780	101
3-2	1023	130	889	111
3-1	1023	130	889	111
3	1023	130	889	111
4-2	1132	143	998	124
4-1	1132	143	998	124
4	1132	143	998	124
5-2	1241	153	1107	134
5-1	1241	153	1107	134
5	1241	153	1107	134
6-2	1350	172	1216	153
6-1	1350	172	1216	153
6	1350	172	1216	153

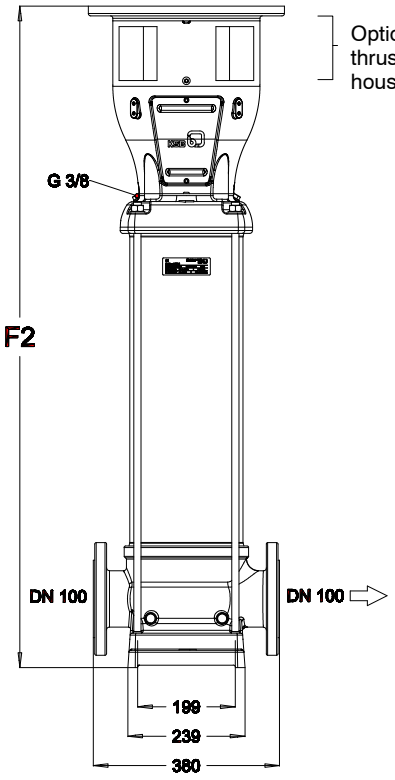
Dimensions in mm (details see type series booklet PumpDrive 4070.5-10)

Movitec VCF 90 without motor – 1450 1/min – *on request*

Flange variants

Round flange PN 25/40 Movitec VCF	Round flange PN 16 Movitec VCF
	

Dimensions and weights
Movitec V(S)F 90 without motor - 2900 1/min

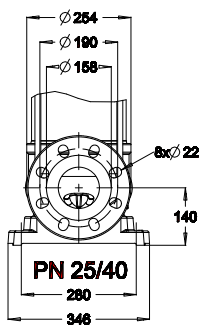
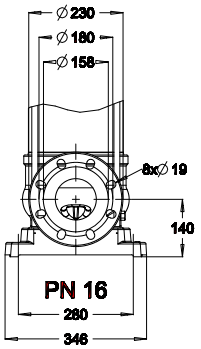


V(S)F 90	With bearing housing		Without bearing housing	
Stages	F2	kg	F2	kg
1-1	775	100	641	81
1	775	100	641	81
2-2	914	122	780	103
2-1	914	122	780	103
2	914	122	780	103
3-2	1023	132	889	113
3-1	1023	132	889	113
3	1023	132	889	113
4-2	1132	145	998	126
4-1	1132	145	998	126
4	1132	145	998	126
5-2	1241	155	1107	136
5-1	1241	155	1107	136
5	1241	155	1107	136
6-2	1350	173	1216	154
6-1	1350	173	1216	154
6	1350	173	1216	154

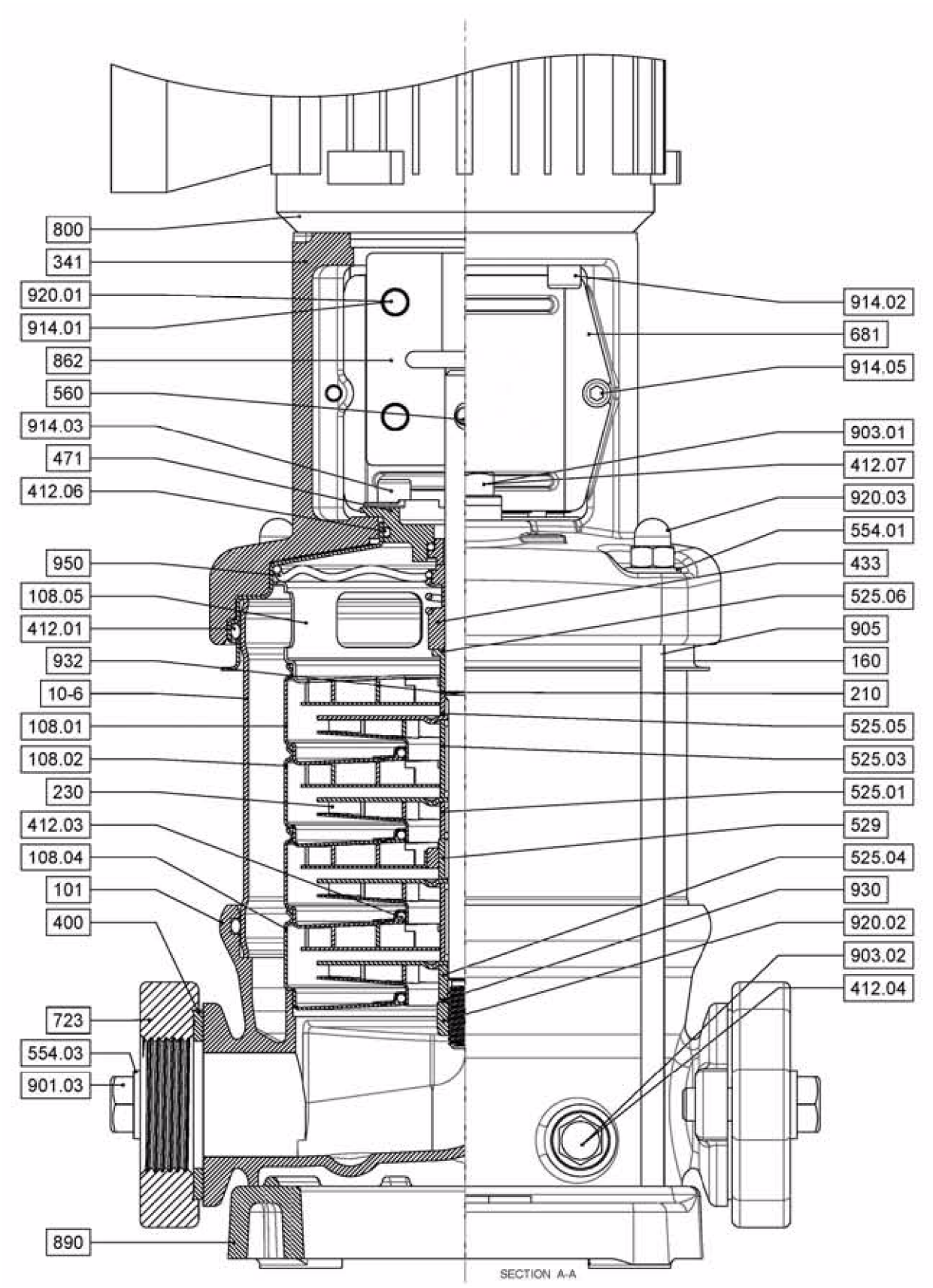
Dimensions in mm (details see type series booklet PumpDrive 4070.5-10)

Movitec V(S)F 90 without motor - 1450 1/min - *on request*

Flange variants

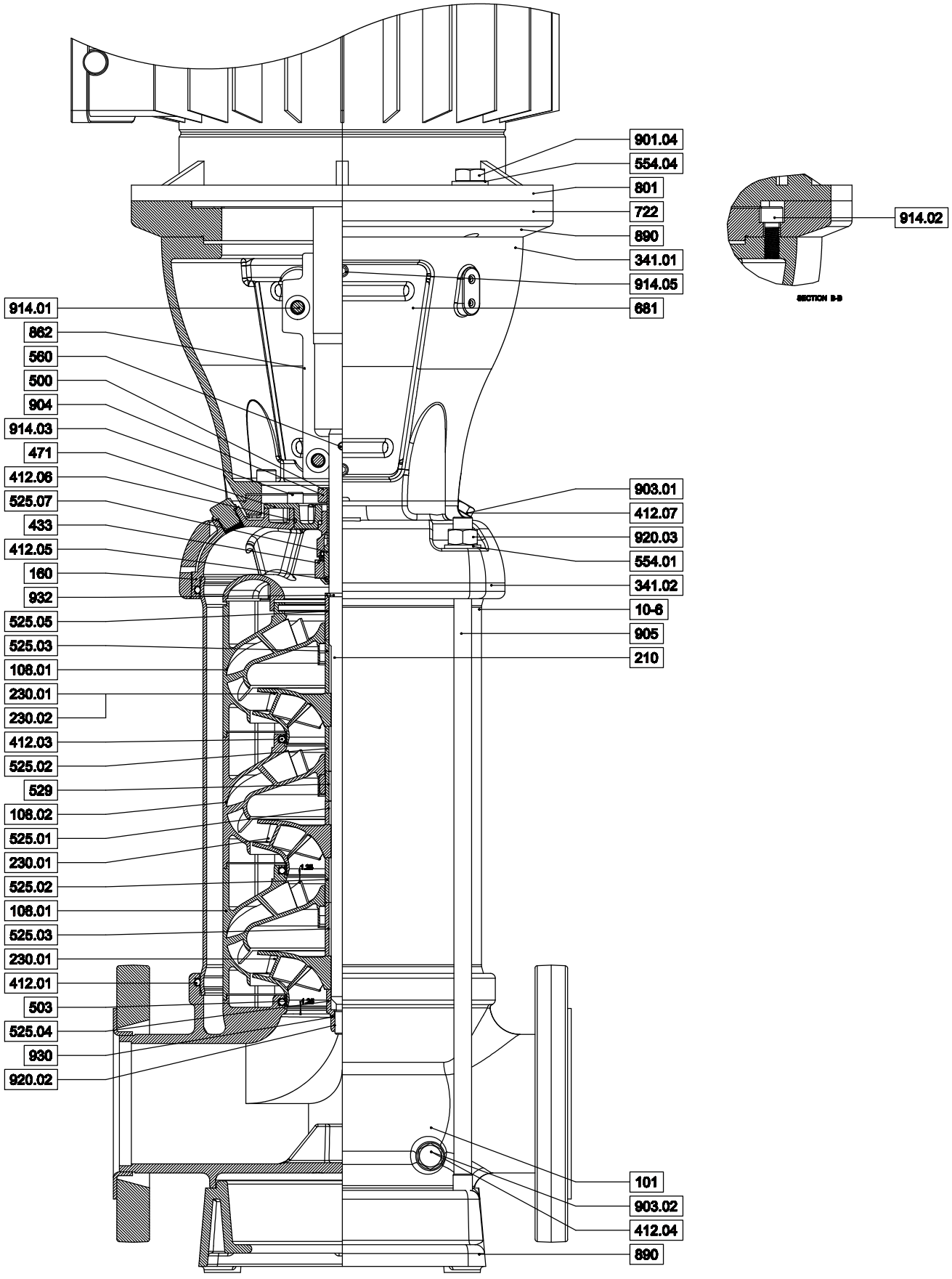
Round flange PN 25/40 Movitec V(S)F	Round flange PN 16 Movitec V(S)F
	

Sectional drawing
Movitec V 2, 4, 6, 10, 15



Part No.	Description
10-6	Pump shroud
101	Pump casing
108.01	Stage casing
108.02	Stage casing
108.04	Stage casing
108.05	Stage casing
160	Cover
210	Shaft
230	Impeller
341	Motor stool
400	Gasket
412.01	O-ring
412.03	O-ring
412.04	O-ring
412.06	O-ring
412.07	O-ring
433	Mechanical seal
471	Seal cover
525.01	Spacer sleeve
525.03	Spacer sleeve
525.04	Spacer sleeve
525.05	Spacer sleeve
525.06	Spacer sleeve
529	Bearing sleeve
554.01	Washer
554.03	Washer
560	Pin
681	Coupling guard
723	Flange
800	Motor
862	Coupling
890	Baseplate
901.03	Hexagon head bolt
903.01	Vent plug
903.02	Screw plug
905	Tie bolt
914.01	Hexagon socket head cap screw
914.02	Hexagon socket head cap screw
914.03	Hexagon socket head cap screw
914.05	Hexagon socket head cap screw
920.01	Nut
920.02	Nut
920.03	Nut
930	Safety device
932	Circlip
950	Spring

Movitec VCF, VF, VSF 90



Part No.	Description
10-6	Pump shroud
101	Pump casing
108.01	Stage casing
108.02	Stage casing
160	Cover
230.01	Impeller
230.02	Impeller
341.01	Motor stool
341.02	Motor stool
412.01	O-ring
412.03	O-ring
412.04	O-ring
412.05	O-ring
412.06	O-ring
412.07	O-ring
433	Mechanical seal
471	Seal cover
500	Ring
503	Impeller wear ring
525.01	Spacer sleeve
525.02	Spacer sleeve
525.03	Spacer sleeve
525.04	Spacer sleeve
525.05	Spacer sleeve
525.07	Spacer sleeve
529	Bearing sleeve
554.01	Washer
554.04	Washer
560	Pin
681	Coupling guard
722	Taper piece, flanged
801	Flanged motor
862	Coupling
890	Baseplate
901.04	Hexagon head bolt
903.01	Vent plug
903	Screw plug
904	Grub screw
905	Tie bolt
914.01	Hexagon socket head cap screw
914.02	Hexagon socket head cap screw
914.03	Hexagon socket head cap screw
914.05	Hexagon socket head cap screw
920.02	Nut
920.03	Nut
930	Safety device
932	Circlip

1.2.2011

1798.52/6-10

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