10” Submersible Electric Pumps

Z10 Series

MARKET SECTORS
AGRICULTURE, INDUSTRY,MUNICIPAL.

APPLICATIONS
- Water supply from deep wells.
- Pressure boosting and water distribution
- Supply of surge tanks and reservoirs.
- Firefighting and washing systems.
- Water table level control.
- Irrigation.
- Mines.

SPECIFICATIONS
- **Delivery: up to 350 m³/h.**
- **Head: up to 546 m.**
- Maximum pump overall diameter (2 cable covers included): 271 mm for all versions.
- Maximum electric pump immersion depth: 350 m.
- Maximum permissible quantity of suspended sand: 100 g/m³.
- Standard delivery outlet: Rp 6” (according to EN 10226) for all versions.
- Construction materials available:
  - AISI304 stainless steel (Z10)
  - AISI316 stainless steel (ZN10)
  - **DUPLEX stainless steel (ZR10)**
  - **SUPER DUPLEX stainless steel (ZX10)**
- Horizontal installation possible. Minimum recommended inclination 3°. Motor on the lowest position.

CONSTRUCTION FEATURES
- Electric pumps sturdy and lightweight, easy maintenance and resistant corrosion in aggressive and non-aggressive environments.
  - Impellers and diffusers made of stainless steel.
  - Delivery casing made of stainless steel.
  - Non-return valve made of stainless steel, with integrated spring.
  - Suction support made of stainless steel.
  - Shaft made of stainless steel.

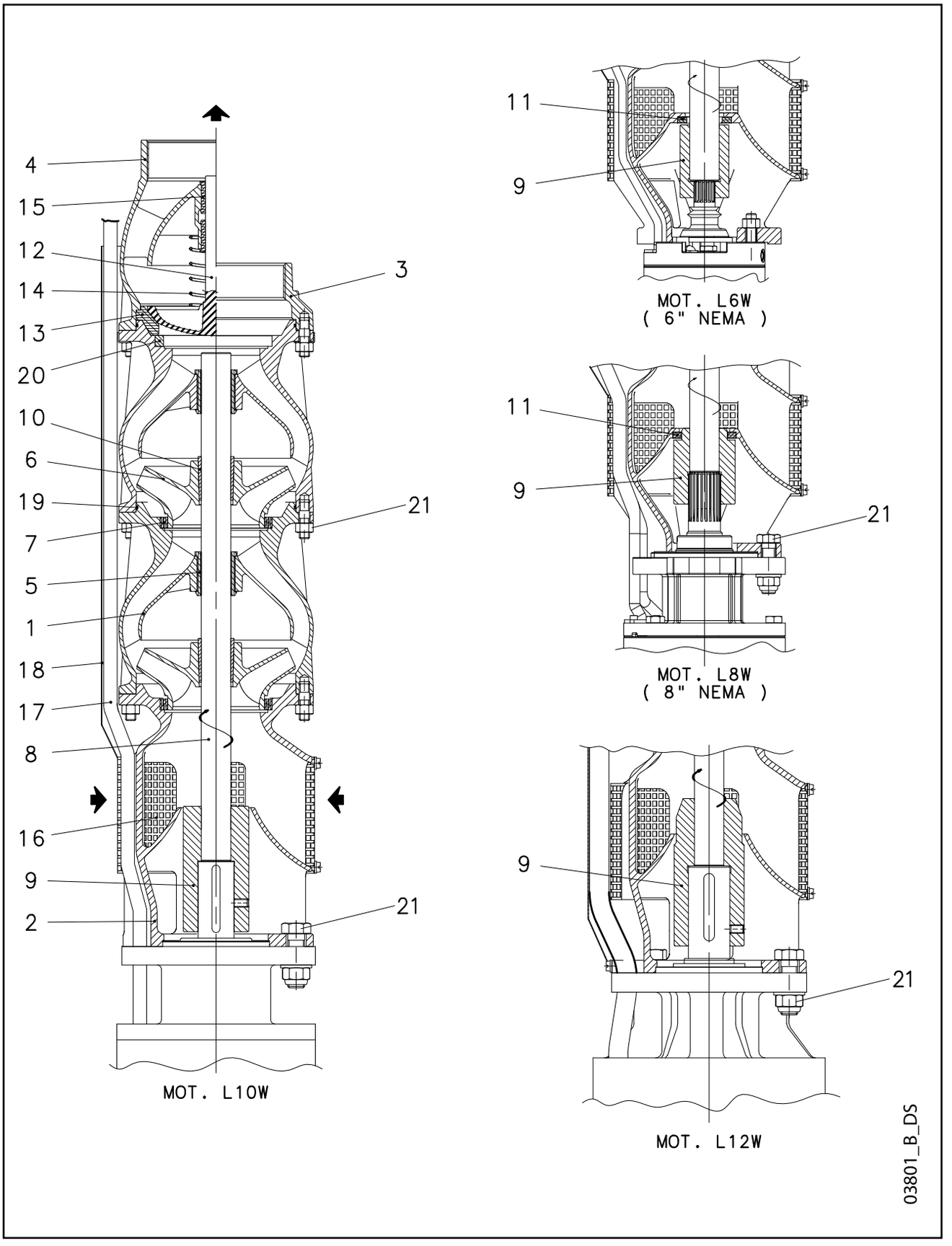
  For available material versions refer to the tables on pages 34-35.
- Coupling and flange mounting according to NEMA standard for 6” and 8” motor, with key connection for 10” and 12” motor.

MOTORS
L6W, L8W, L10W and L12W rewindable three-phase motors with water filled winding.
- Three-phase version:
  L6W: 4 to 37 kW 380-415 V, 50Hz.
  L8W: 30 to 93 kW 380-415 V, 50Hz.
  L10W: 93 to 150 kW 380-415 V, 50Hz.
  L12W: 185 to 300 kW 380-415 V,50Hz.
- Maximum supply voltage variations: 400V ±10% (all sizes)
- Maximum number of starts per hour: 15 (L6W), 10 (L8W), 8 (L10W) and 4 (L12W).
- Horizontal operation:
  - L6W, all versions are designed for horizontal installation, provided that the direction of the axial thrust generated by the impellers is always from the pump to the motor.
  - L8W, L10W and L12W on request for all versions.
- Maximum temperature of water in contact with motor: 30°C (all sizes).

OPTIONAL FEATURES
Customized impeller diameters.

ACCESSORIES
Coupling flanges, control panels,drop cables, cable joints, cooling shrouds, temperature sensor PT 100 / PTC.

Z10 SERIES
PUMP CROSS SECTION AND LIST OF COMPONENTS



Z10 SERIES
TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
2	Lower support / Suction Casing	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
3	Delivery head	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
4	Valve Casing	Acciaio inox	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
5	Bearing bush	EPDM + Lubricant		
6	Impeller	Stainless steel	EN 10213-GX5CrNi19-11 (1.4308)	A744-CF 8
7	Wear ring	Tecnopolymer POM-C		
8	Pump shaft	Stainless steel	EN 10088-1-X17CrNi16-2 (1.4057)	AISI 431
9	Coupling	Stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
10	Taperlock	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
11	Thrust Bearing	PTFE + 25% carbon		
12	Valve	Stainless steel	EN 10213-GX5CrNi19-10 (1.4308)	A744-CF 8
13	Valve seal	NBR 90		
14	Valve spring	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
15	Wing valve			
16	Suction strainer	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
17	Motor cable			
18	Cable protection	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
19	Diffuser O-Ring	NBR 70		
20	Intermediate ring			
21	Screw, stud, nut	Stainless steel	ISO 3506-1/2 A4-70	AISI 316

z10-2p50-en_d_tm

ZN10 SERIES
TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
2	Lower support / Suction Casing	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
3	Delivery head	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
4	Valve Casing	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
5	Bearing bush	EPDM 70	-	-
6	Impeller	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
7	Wear ring	Technopolymer POM-C	-	-
8	Pump shaft	Duplex Stainless Steel	EN 10088-X2CrNiMoN 22 5 3 (1.4462)	ASTM - F51
9	Coupling	Duplex Stainless Steel	EN 10088-X2CrNiMoN 22 5 3 (1.4462)	ASTM - F51
10	Taperlock	Duplex Stainless Steel	EN 10088-X2CrNiMoN 22 5 3 (1.4462)	ASTM - F51
11	Thrust Bearing	Guarniflon G412	-	-
12	Valve	Austenitic Stainless Steel	EN 10283-GX5CrNiMo 19 11 2 (1.4408)	ASTM - CF8M
13	Valve seal	EPDM 90	-	-
14	Valve spring	Stainless steel	EN 10088-X5CrNiMo 17 12 2 (1.4401)	AISI 316
15	Wing valve	-	-	-
16	Suction strainer	Stainless steel	EN 10088-X6CrNiMoTi 17 12 2 (1.4571)	ASTM - 316Ti
17	Motor cable	-	-	-
18	Cable protection	Stainless steel	EN 10088-X6CrNiMoTi 17 12 2 (1.4571)	ASTM - 316Ti
19	Diffuser O-Ring	EPDM 70	-	-
20	Intermediate ring	-	-	-
21	Screw, stud, nut	Stainless steel	ISO 3506-1/2 A4-70	AISI 316

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ZR10 SERIES
TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
2	Lower support / Suction Casing	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
3	Delivery head	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
4	Valve Casing	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
5	Bearing bush	EPDM + Lubricant		
6	Impeller	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
7	Wear ring	Tecnopolimery POM-C		
8	Pump shaft	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
9	Coupling	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
10	Taperlock	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803
11	Thrust Bearing	PTFE + 25% carbon		
12	Valve	Duplex stainless steel	EN 10213-GX2CrNiMoCuN25-6-3-3 (1.4517)	
13	Valve seal	NBR 90		
14	Valve spring	Hastelloy C4	DIN17744-NiMo16Cr16Ti (2.4610)	N06455
15	Wing valve			
16	Suction strainer	Stainless steel	EN 10088-1X1NiCrMoCu25-20-5 (1.4539)	AISI 904L
17	Motor cable			
18	Cable protection	Stainless steel	EN 10088-1X1NiCrMoCu25-20-5 (1.4539)	AISI 904L
19	Diffuser O-Ring	NBR 70		
20	Intermediate ring			
21	Screw, stud, nut	Duplex stainless steel	EN 10088-1-X2CrNiMoN22-5-3 (1.4462)	A276/A790-S31803

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ZX10 SERIES
TABLE OF MATERIALS

REF. N°	COMPONENT	MATERIAL	DESIGNATION	
			EUROPE	USA
1	Diffuser	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
2	Lower support / Suction Casing	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
3	Delivery head	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
4	Valve Casing	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
5	Bearing bush	EPDM 70		
6	Impeller	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
7	Wear ring	Technopolymer POM-C		
8	Pump shaft	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
9	Coupling	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
10	Taperlock	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
11	Thrust Bearing	Guarniflon G412		
12	Valve	Super Duplex Stainless Steel	EN 10283-GX2CrNiMoN 26 7 4 (1.4469)	ASTM - CE3MN
13	Valve seal	EPDM 90		
14	Valve spring	Hastelloy C4	DIN17744-NiMo16Cr16Ti (2.4610)	N06455
15	Wing valve	-	-	-
16	Suction strainer	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
17	Motor cable	-	-	-
18	Cable protection	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53
19	Diffuser O-Ring	EPDM 70	-	-
20	Intermediate ring	-	-	-
21	Screw, stud, nut	Super Duplex Stainless Steel	EN 10088-X2CrNiMoN 25 7 4 (1.4410)	ASTM - F53

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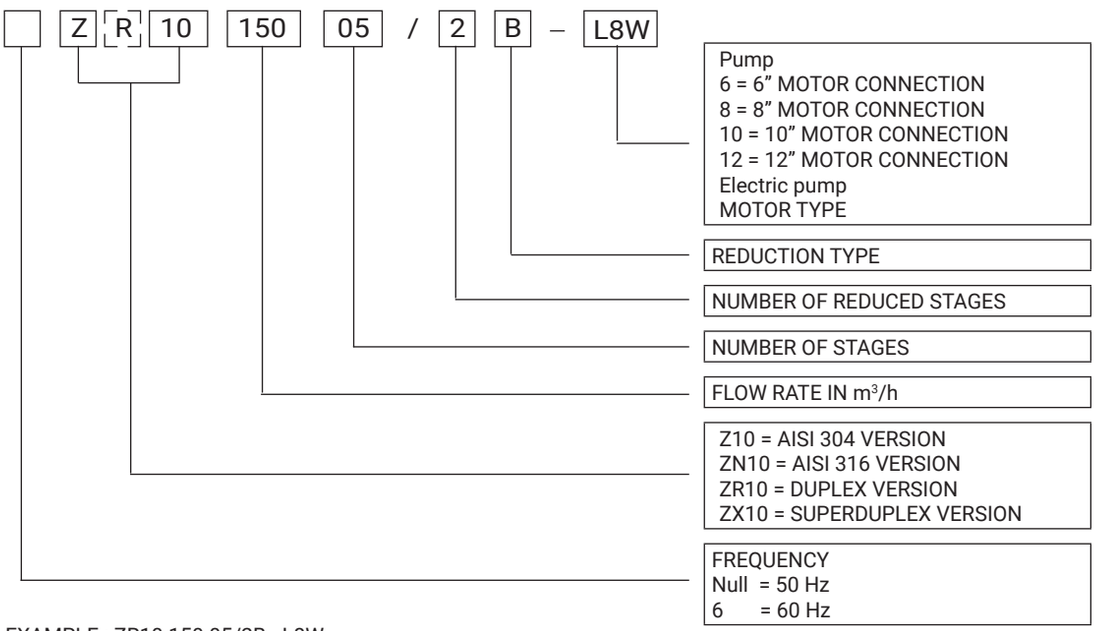
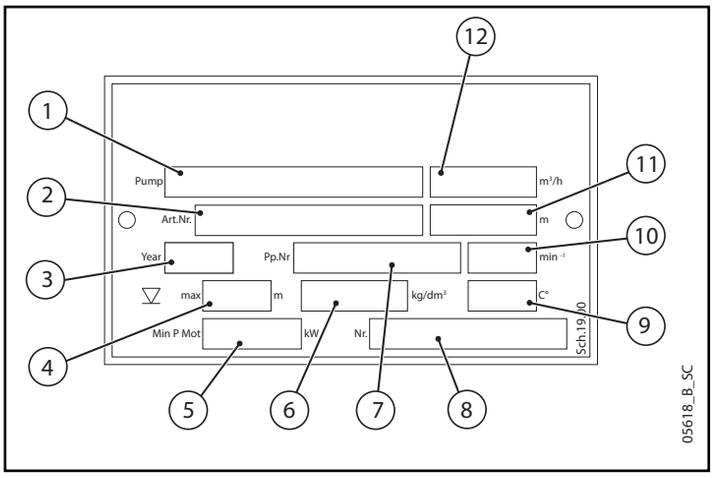
Z10 SERIES
IDENTIFICATION CODES



EXAMPLE : ZR10 150 05/2B - L8W
10” electric pump, 50 Hz, made of DUPLEX, flow rate 150 m³/h, 5 stages including 2 reduced ones, coupled to an 8” L8W motor.

Z10 SERIES
RATING PLATE



LEGEND

1 - Pump type

2 - Article code of the pump

3 - Year of production

4 - Max. immersion depth

5 - Min. required motor power

6 - Density of medium

7 - Data set entry for additional identification

8 - Serial number

9 - Max. water temperature

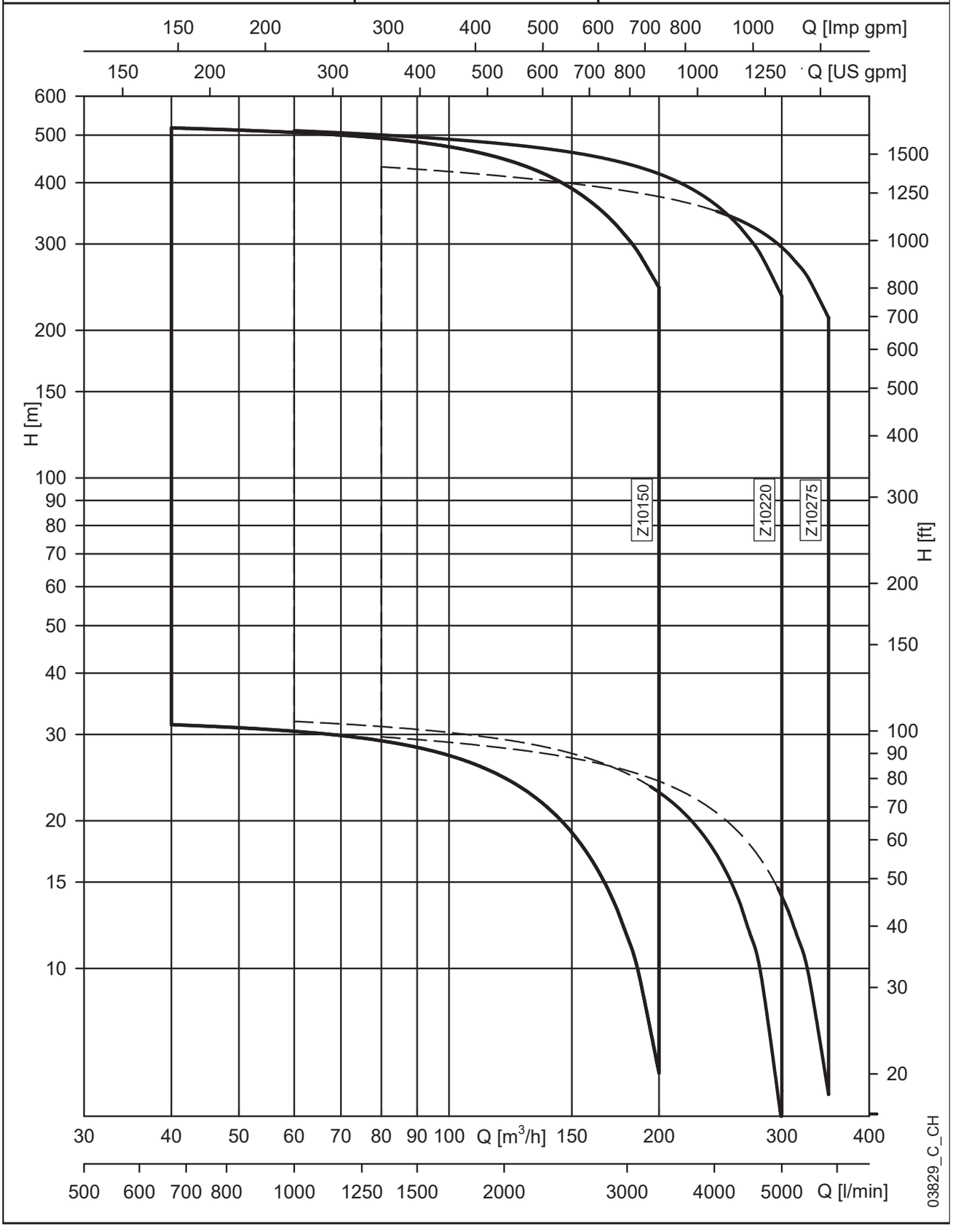
10 - Speed

11 - Head

12 - Nominal flow

Z10 SERIES
HYDRAULIC PERFORMANCE RANGE

Z10	2900 [rpm]	ISO 9906:2012 - Grade 3B

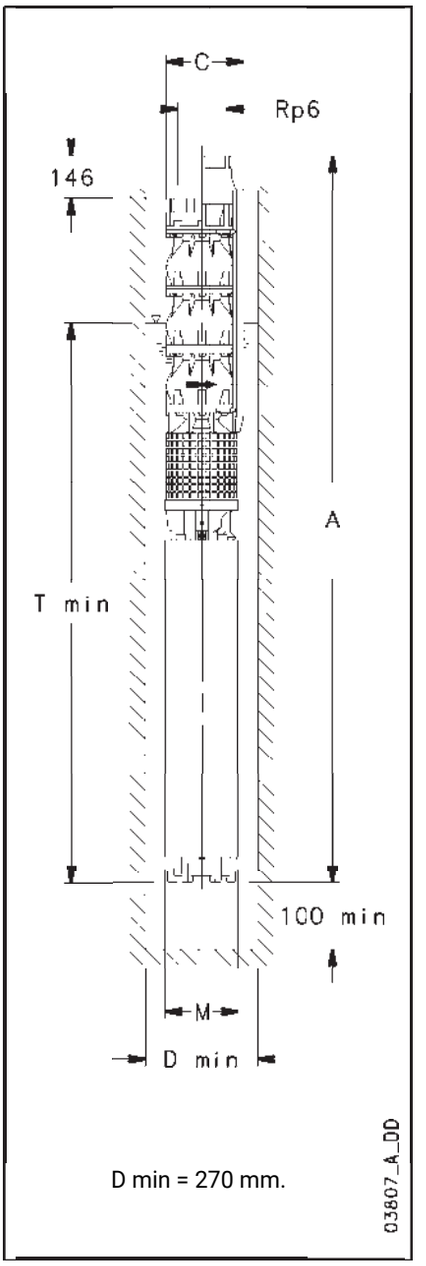


Z10150: 1 TO 3 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	666,7	1200,0	1733,3	2266,7	2800,0	3333,3
		m^3/h 0	40	72	104	136	168	200
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10150 01/1C	11	34,2	32,1	30,4	27,4	22,5	15,5	6,9
Z10150 01/1B	13	39,6	37,3	35,5	32,7	28,1	21,4	12,9
Z10150 01/1A	15	43,1	40,7	39,1	36,5	32,2	25,8	17,4
Z10150 02/2C	22	68,5	64,2	60,8	54,8	45,0	31,0	13,7
Z10150 02/2B	26	79,2	74,5	71,0	65,4	56,1	42,8	25,8
Z10150 02/2A	30	86,2	81,5	78,3	73,0	64,4	51,6	34,8
Z10150 03/2C	37	113,1	106,4	101,4	92,9	78,9	58,7	33,2
Z10150 03/2B	45	123,8	116,8	111,7	103,5	90,1	70,5	45,2
Z10150 03/2A	45	129,3	122,2	117,4	109,6	96,5	77,3	52,2
Z10150 03	52	133,7	126,6	122,0	114,5	101,9	83,0	58,1

Pump performance at 2900 rpm

z10150-2p50-1-en_b_th



DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT кг (3)
Z10150 01/1C-L6W	11	1423	258	144	2323	103
Z10150 01/1B-L6W	13	1463	258	144	2363	107
Z10150 01/1A-L6W	15	1533	258	144	2433	115
Z10150 02/2C-L6W	22	1819	258	144	2543	146
Z10150 02/2B-L6W	26	1839	258	144	2671	155
Z10150 02/2A-L6W	30	1929	258	144	2751	158
Z10150 03/2C-L6W	37	2338	258	144	2851	200
Z10150 03/2B-L8W	45	2107	258	192	2735	270
Z10150 03/2A-L8W	45	2187	258	192	2735	270
Z10150 03-L8W	52	2267	258	192	2815	290

z10150-2p50-1-en_d_td

(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L6W motor.
C = 255 mm with L8W motor.

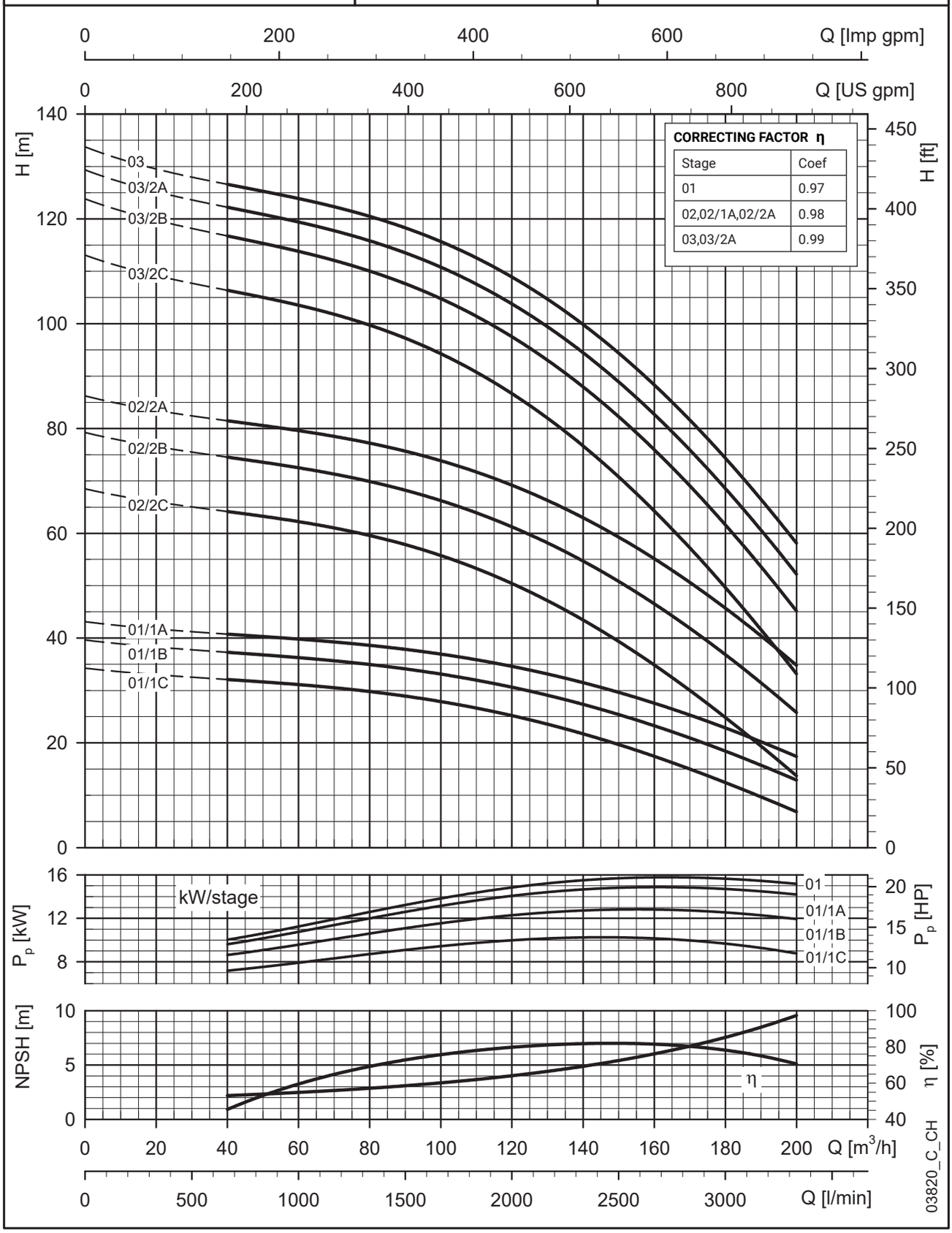
(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,3 kg.

Z10150: 1 TO 3 STAGES
OPERATING CHARACTERISTICS

Z10150	2900 [rpm]	ISO 9906:2012 - Grade 3B



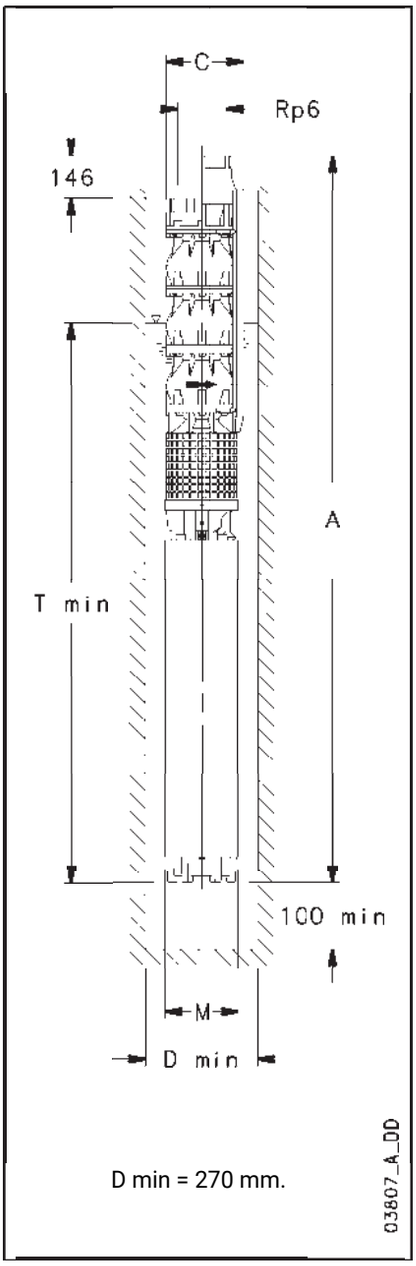
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10150: 4 TO 6 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	666,7	1200,0	1733,3	2266,7	2800,0	3333,3
		m^3/h 0	40	72	104	136	168	200
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10150 04/2C	52	157,7	148,6	142,1	131,1	112,8	86,4	52,7
Z10150 04/2B	60	168,4	159,0	152,3	141,6	124,0	98,2	64,5
Z10150 04	67	178,3	168,8	162,6	152,7	135,8	110,7	77,5
Z10150 05/2C	67	202,2	190,8	182,7	169,2	146,7	114,0	72,1
Z10150 05/2B	75	213,0	201,2	193,0	179,8	157,9	125,9	83,9
Z10150 05	83	222,9	211,0	203,3	190,8	169,8	138,4	96,9
Z10150 06/2C	83	246,8	233,0	223,4	207,3	180,6	141,7	91,6
Z10150 06/1B	93	262,5	248,3	238,8	223,4	197,8	159,8	109,7
Z10150 06	110	267,5	253,2	244,0	229,0	203,7	166,1	116,3

Pump performance at 2900 rpm

z10150-2p50-2-en_b_th



DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10150 04/2C-L8W	52	2578	258	192	2815	311
Z10150 04/2B-L8W	60	2648	258	192	2895	328
Z10150 04-L8W	67	2818	258	192	2975	346
Z10150 05/2C-L8W	67	2944	258	192	2975	367
Z10150 05/2B-L8W	75	3024	258	192	3055	384
Z10150 05-L8W	83	3114	258	192	3145	397
Z10150 06/2C-L8W	83	3330	258	192	3145	417
Z10150 06/1B-L8W	93	3440	258	192	3455	442
Z10150 06-L10W	110	3482	259	236	3302	558

z10150-2p50-2-en_c_td

(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L8W motor.
C = 255 mm with L10W motor.

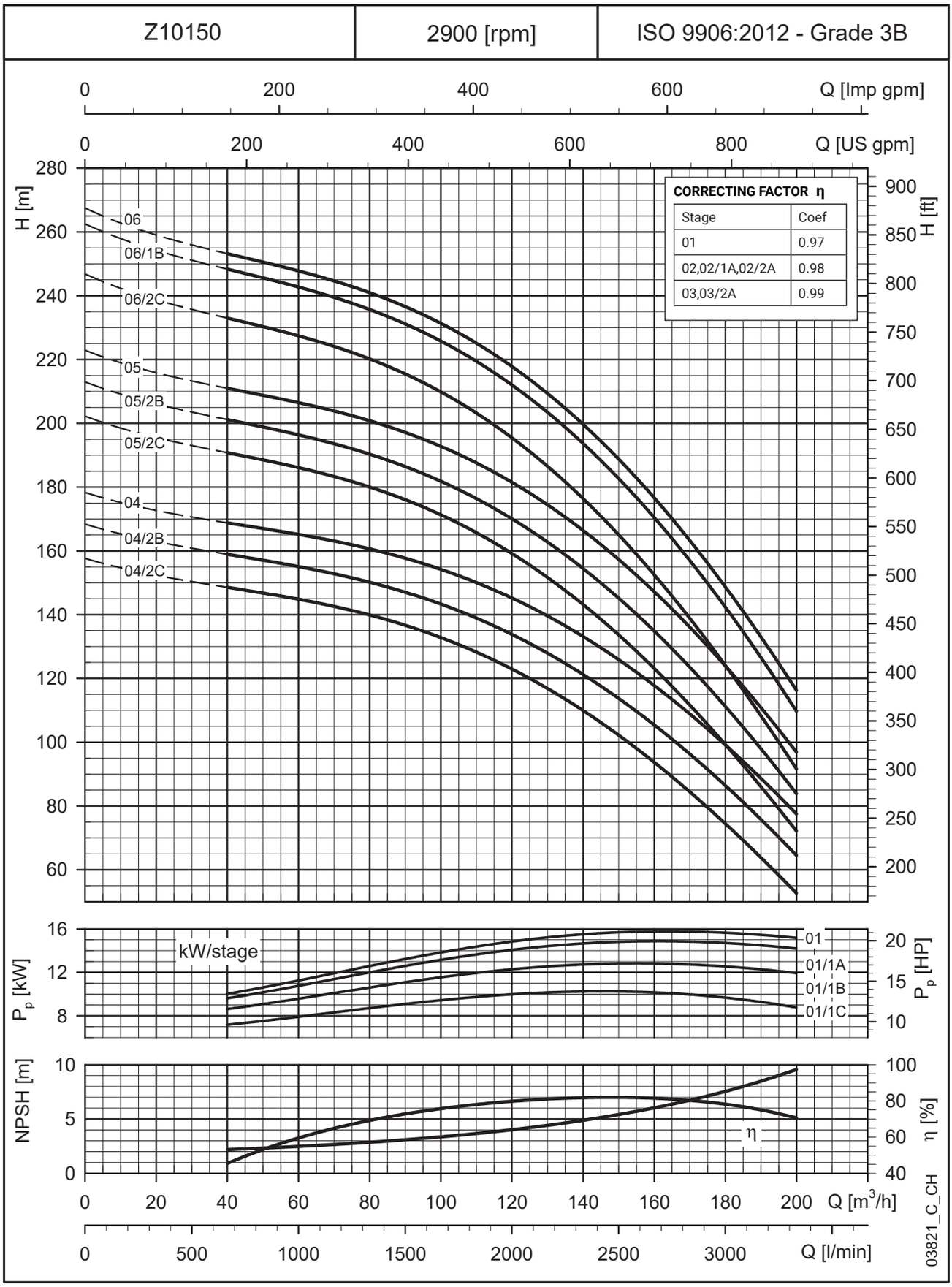
(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm andreduce weight by 8,3 kg.

Z10150: 4 TO 6 STAGES
OPERATING CHARACTERISTICS

Z10150	2900 [rpm]	ISO 9906:2012 - Grade 3B



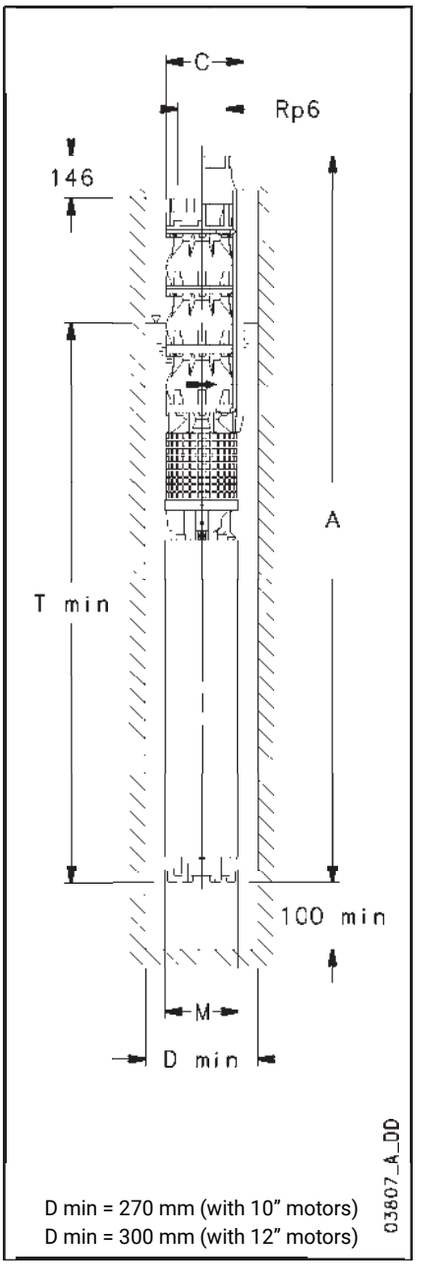
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10150: 7 TO 12 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	666,7	1200,0	1733,3	2266,7	2800,0	3333,3
		m^3/h 0	40	72	104	136	168	200
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10150 07/3B	110	295,1	278,7	267,2	248,6	217,9	172,8	114,0
Z10150 07/1B	110	307,1	290,5	279,4	261,5	231,7	187,5	129,1
Z10150 08/3B	130	341,7	322,9	309,8	288,7	253,9	202,6	135,5
Z10150 08	130	356,6	337,6	325,3	305,3	271,7	221,4	155,0
Z10150 09/3B	150	386,3	365,1	350,5	326,9	287,8	230,3	154,9
Z10150 09	150	401,2	379,8	365,9	343,5	305,6	249,1	174,4
Z10150 10	185	445,8	422,0	406,6	381,7	339,6	276,8	193,8
Z10150 11	185	490,4	464,2	447,3	419,8	373,5	304,5	213,1
Z10150 12	220	535,0	506,4	487,9	458,0	407,5	332,1	232,5

Pump performance at 2900 rpm

z10150-2p50-3-en_b_th



D min = 270 mm (with 10” motors)
D min = 300 mm (with 12” motors)

DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10150 07/3B-L10W	110	3698	259	236	3302	579
Z10150 07/1B-L10W	110	3698	259	236	3302	579
Z10150 08/3B-L10W	130	4064	259	236	3452	647
Z10150 08-L10W	130	4064	259	236	3452	647
Z10150 09/3B-L10W	150	4410	259	236	3582	706
Z10150 09-L10W	150	4410	259	236	3582	706
Z10150 10-L12W	185	4396	283	276	3339	793
Z10150 11-L12W	185	4612	283	276	3339	814
Z10150 12-L12W	220	4978	283	276	3489	898

z10150-2p50-3-en_b_td

(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L10W motor.
C = 280 mm with L12W motor.

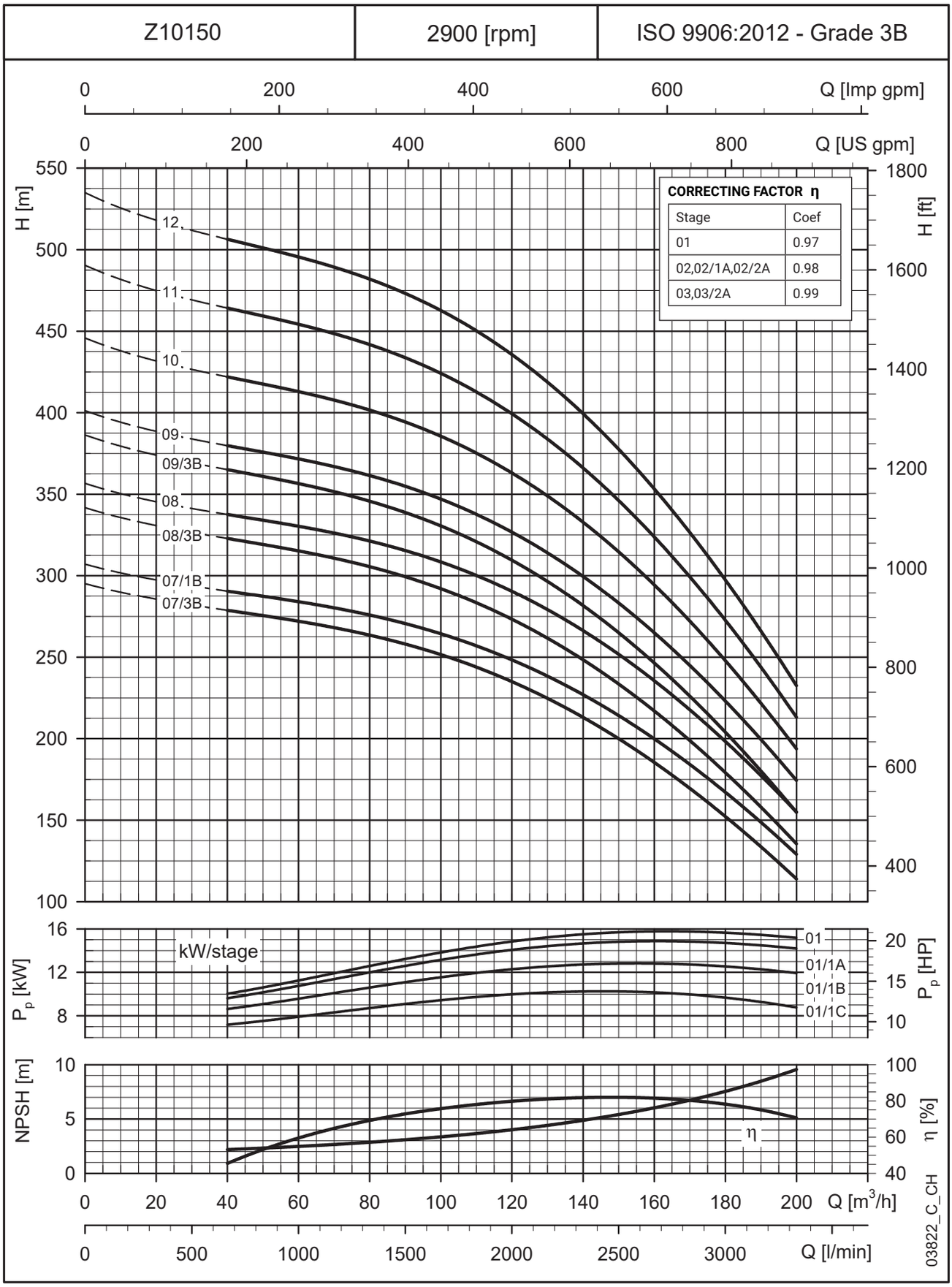
(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,3 kg.

Z10150: 7 TO 12 STAGES
OPERATING CHARACTERISTICS

Z10150	2900 [rpm]	ISO 9906:2012 - Grade 3B



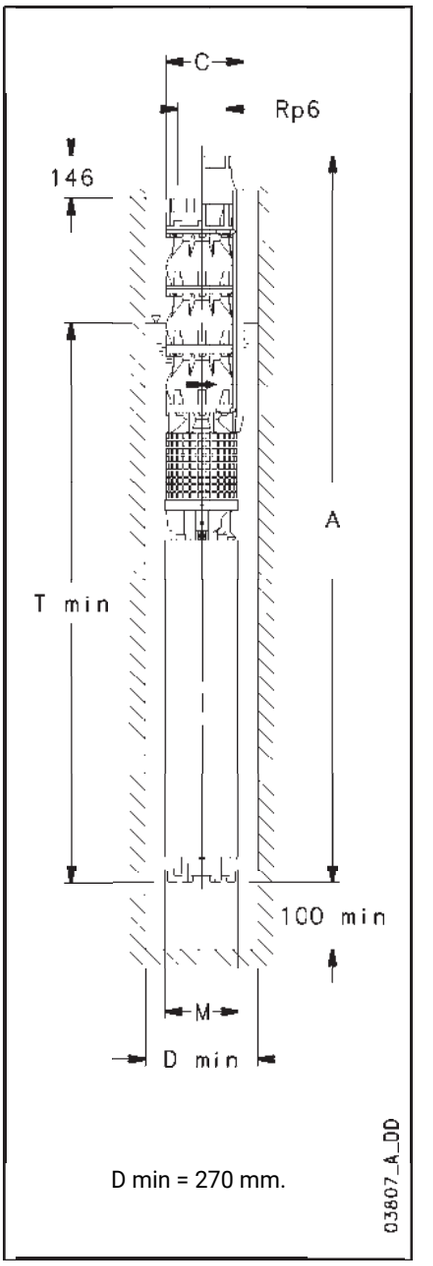
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10220: 1 TO 3 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	1000,0	1800,0	2600,0	3400,0	4200,0	5000,0
		m^3/h 0	60	108	156	204	252	300
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10220 01/1C	15	33,2	31,1	28,7	25,5	20,6	13,1	1,2
Z10220 01/1B	18,5	38,0	35,6	33,6	30,7	26,2	19,2	8,8
Z10220 01/1A	22	42,2	39,4	37,5	34,9	30,8	24,3	14,7
Z10220 01	26	45,0	41,8	39,8	37,3	33,6	27,7	18,7
Z10220 02/2C	30	66,4	62,2	57,4	50,9	41,2	26,1	2,5
Z10220 02/2B	37	75,9	71,3	67,3	61,5	52,4	38,4	17,6
Z10220 02/2A	45	84,5	78,9	74,9	69,7	61,6	48,7	29,4
Z10220 02	52	90,0	83,6	79,6	74,7	67,2	55,4	37,3
Z10220 03/2B	60	120,8	112,9	107,0	98,8	85,9	65,9	36,3
Z10220 03/2A	67	129,1	120,3	114,4	106,8	94,9	76,1	47,9
Z10220 03	75	135,0	125,4	119,3	112,0	100,8	83,1	56,0

Pump performance at 2900 rpm

z10220-2p50-1-en_b_th



D min = 270 mm.

DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10220 01/1C-L6W	15	1533	258	144	3733	114
Z10220 01/1B-L6W	18,5	1603	258	144	3803	122
Z10220 01/1A-L6W	22	1623	258	144	3843	125
Z10220 01-L6W	26	1713	258	144	3971	134
Z10220 02/2C-L6W	30	2062	258	144	4051	156
Z10220 02/2B-L6W	37	2122	258	144	4151	177
Z10220 02/2A-L8W	45	2051	258	192	4035	247
Z10220 02-L8W	52	2136	258	192	4115	267
Z10220 03/2B-L8W	60	2432	258	192	4195	304
Z10220 03/2A-L8W	67	2512	258	192	4275	322
Z10220 03-L8W	75	2592	258	192	4355	339

z10220-2p50-1-en_d_td

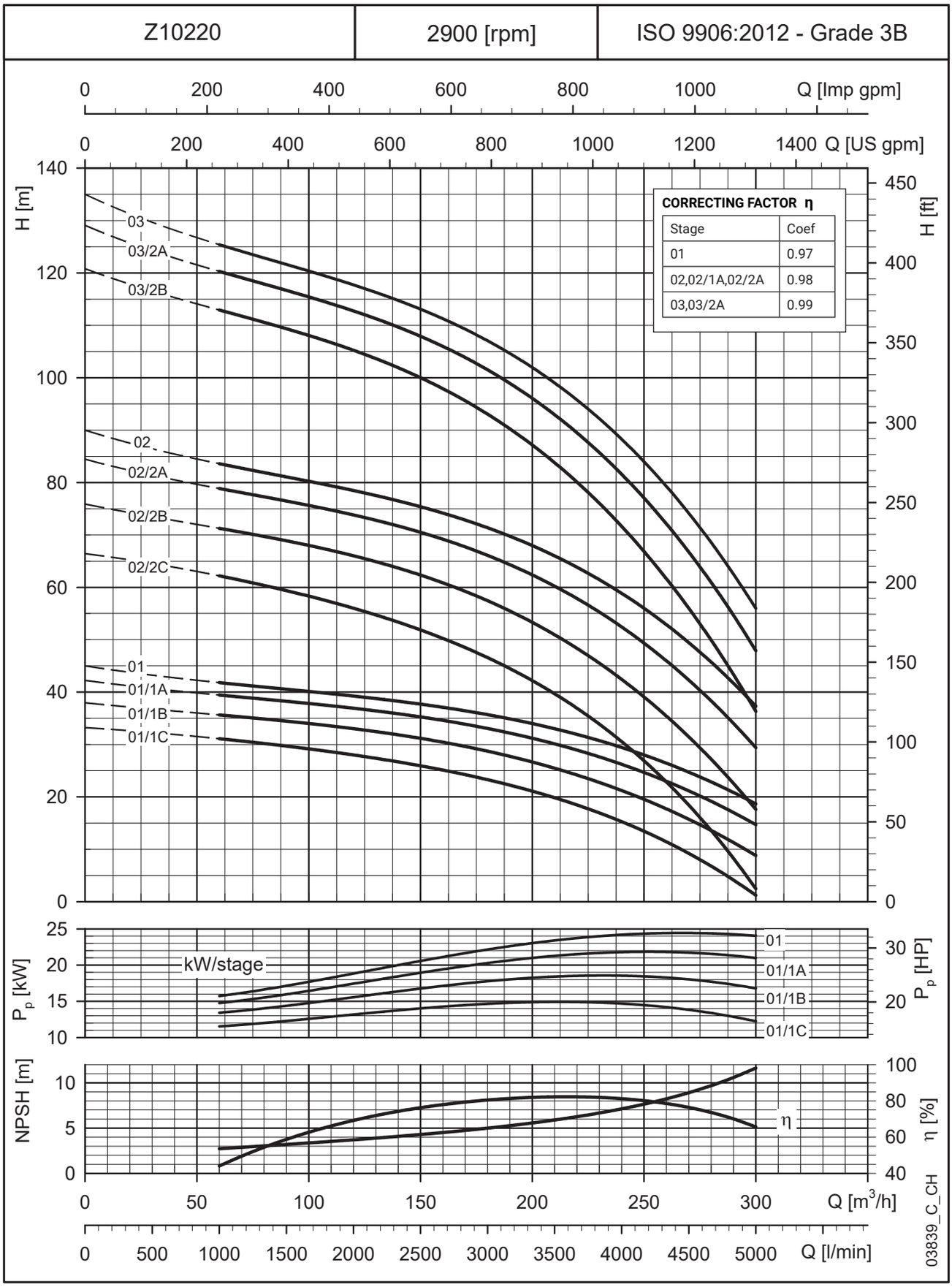
(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L6W motor.
C = 255 mm with L8W motor.

(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,3 kg.

Z10220: 1 TO 3 STAGES
OPERATING CHARACTERISTICS



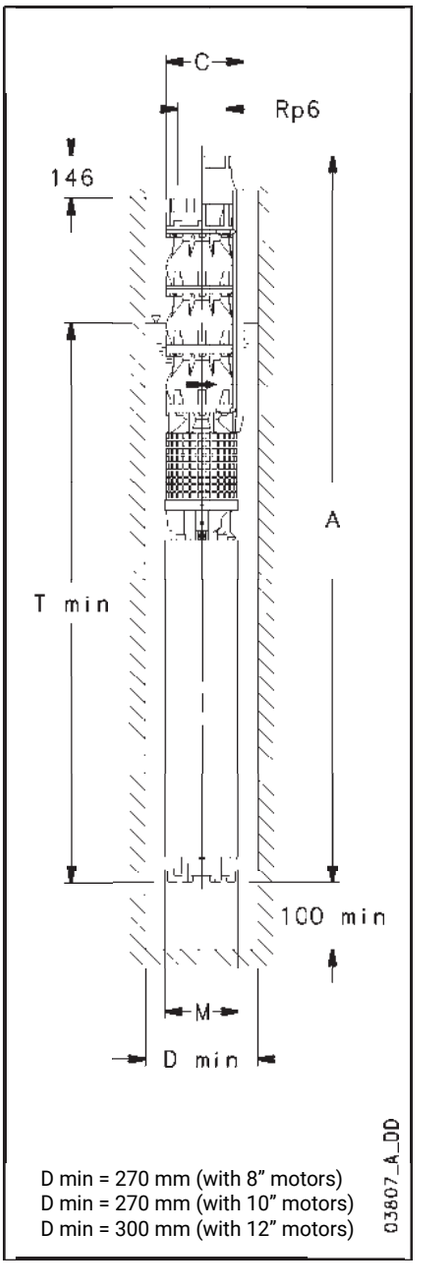
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10220: 4 TO 7 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	1000,0	1800,0	2600,0	3400,0	4200,0	5000,0
		m^3/h 0	60	108	156	204	252	300
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10220 04/2B	83	165,9	154,8	146,9	136,2	119,5	93,5	55,1
Z10220 04/2A	93	174,5	162,4	154,5	144,5	128,8	104,0	66,6
Z10220 04	110	183,8	170,8	162,6	152,9	138,1	114,7	79,0
Z10220 05/2B	110	211,0	196,6	186,8	173,7	153,1	121,0	73,8
Z10220 05	130	225,0	209,0	198,9	186,7	168,1	138,5	93,3
Z10220 06/2B	150	258,4	240,6	228,8	213,3	188,9	150,8	94,9
Z10220 06	150	268,2	249,1	237,0	222,3	199,9	164,2	109,8
Z10220 07/2B	185	301,6	280,7	267,0	249,0	220,7	176,6	111,6
Z10220 07	185	315,0	292,6	278,5	261,4	235,3	193,9	130,6

Pump performance at 2900 rpm

z10220-2p50-2-en_b_th



DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10220 04/2B-L8W	83	2968	258	192	4515	371
Z10220 04/2A-L8W	93	3108	258	192	4655	396
Z10220 04-L10W	110	3050	259	236	4602	512
Z10220 05/2B-L10W	110	3266	259	236	4602	531
Z10220 05-L10W	130	3416	259	236	4752	578
Z10220 06/2B-L10W	150	3762	259	236	4882	636
Z10220 06-L10W	150	3762	259	236	4882	636
Z10220 07/2B-L12W	185	3748	283	276	4639	722
Z10220 07-L12W	185	3748	283	276	4639	722

z10220-2p50-2-en_b_td

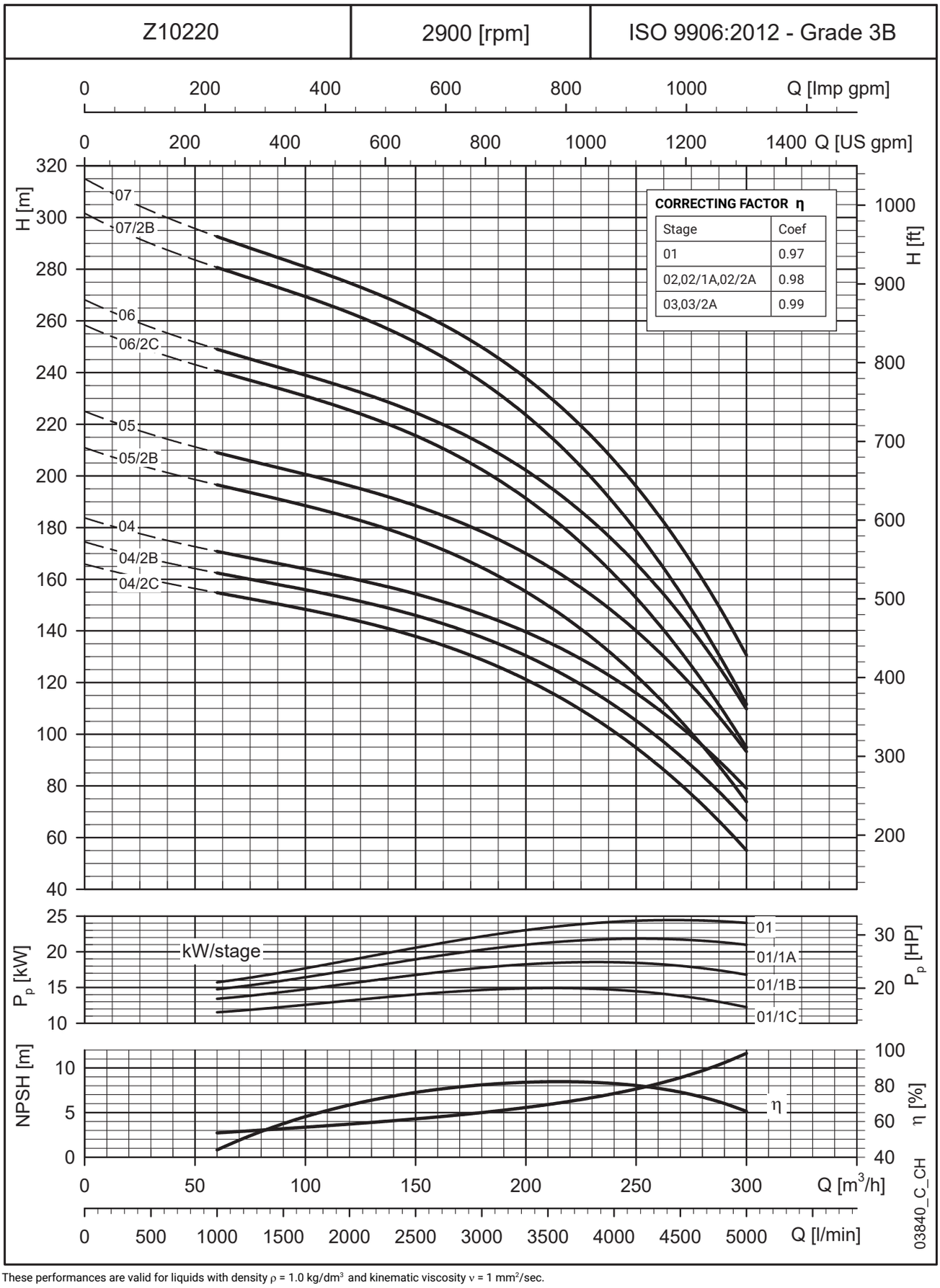
(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L8W motor.
C = 255 mm with L10W motor
C = 280 mm with L12W motor.

(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,3 kg.

Z10220: 4 TO 7 STAGES
OPERATING CHARACTERISTICS



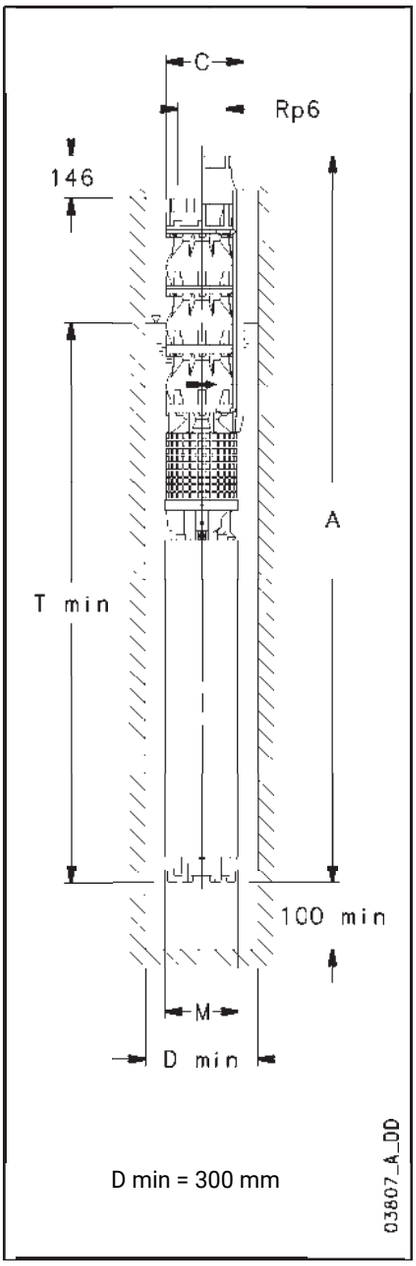
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10220: 8 TO 12 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	1000,0	1800,0	2600,0	3400,0	4200,0	5000,0
		m^3/h 0	60	108	156	204	252	300
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10220 8/2B	185	346,7	322,4	306,8	286,4	254,3	204,1	130,3
Z10220 8	220	360,0	334,4	318,3	298,7	268,9	221,6	149,2
Z10220 9/2B	220	391,7	364,2	346,7	323,8	287,9	231,7	149,1
Z10220 9/1A	220	402,3	373,8	355,9	333,8	299,7	245,6	163,7
Z10220 10/2B	260	436,7	406,0	386,5	361,2	321,4	259,3	167,9
Z10220 10	260	450,0	418,0	397,8	373,4	336,1	276,9	186,5
Z10220 11/2B	260	481,7	447,7	426,4	398,6	355,0	286,9	186,6
Z10220 11	300	495,0	459,8	437,6	410,7	369,7	304,6	205,2
Z10220 12/2B	300	526,8	489,5	466,2	436,0	388,6	314,5	205,4

Pump performance at 2900 rpm

z10220-2p50-3-en_b_th



DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10220 08/2B-L12W	185	3964	283	276	4639	741
Z10220 08-L12W	220	4114	283	276	4789	805
Z10220 09/2B-L12W	220	4330	283	276	4789	824
Z10220 09/1A-L12W	220	4330	283	276	4789	824
Z10220 10/2B-L12W	260	4696	283	276	4939	907
Z10220 10-L12W	260	4696	283	276	4939	907
Z10220 11/2B-L12W	260	4912	283	276	4939	927
Z10220 11-L12W	300	5062	283	276	5089	992
Z10220 12/2B-L12W	300	5278	283	276	5089	1011
Z10220 12-L12W	300	5278	283	276	5089	1011

z10220-2p50-3-en_b_td

(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 280 mm with L12W motor.

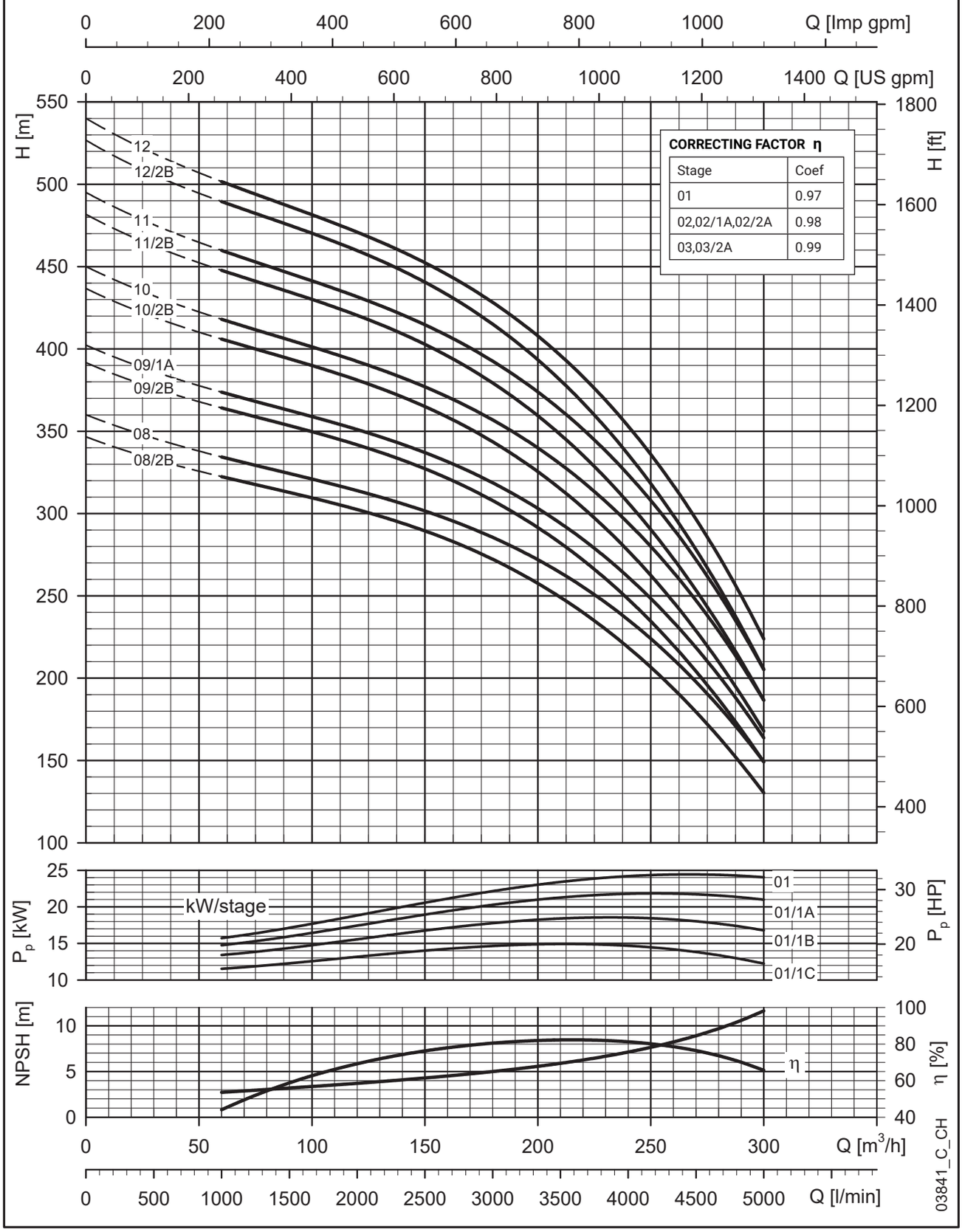
(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,3 kg.

Z10220: 8 TO 12 STAGES
OPERATING CHARACTERISTICS

Z10220	2900 [rpm]	ISO 9906:2012 - Grade 3B



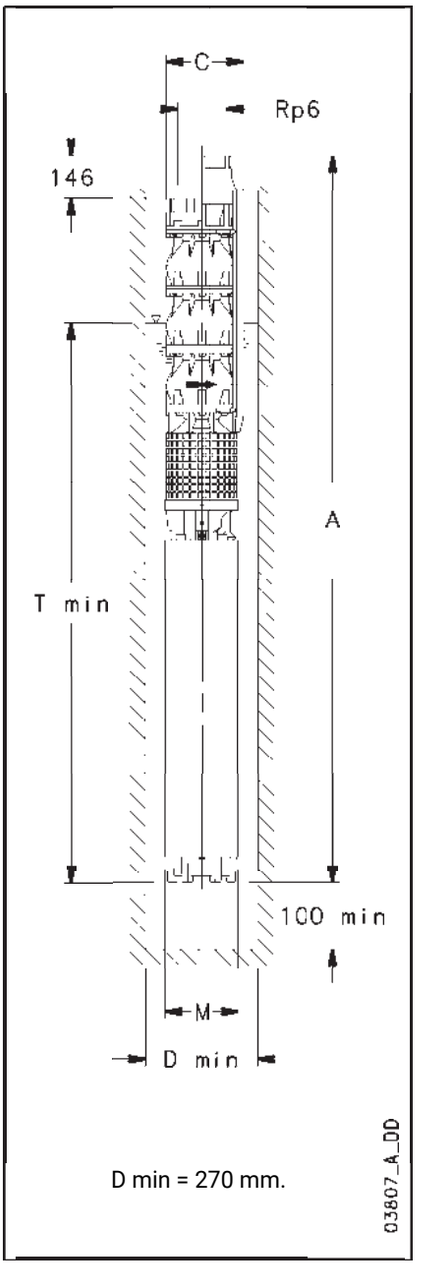
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10275: 1 TO 3 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	1333,3	2233,3	3133,3	4033,3	4933,3	5833,3
		m^3/h 0	80	134	188	242	296	350
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10275 01/1B	18,5	33,7	30,3	28,2	25,5	21,4	15,3	6,4
Z10275 01/1A	22	38,2	34,7	32,6	30,1	26,6	21,3	13,1
Z10275 01	30	41,6	38,6	36,5	34,3	31,4	26,8	19,0
Z10275 02/2B	37	67,4	60,6	56,4	50,9	42,9	30,7	12,8
Z10275 02/2A	45	76,3	69,5	65,2	60,2	53,2	42,5	26,3
Z10275 02	55	83,2	77,3	73,0	68,5	62,8	53,7	37,9
Z10275 03/2B	60	109,0	99,2	92,8	85,2	74,2	57,5	31,9
Z10275 03/3A	67	114,5	104,2	97,9	90,4	79,8	63,8	39,4
Z10275 03/1A	75	121,3	112,1	105,5	98,5	89,4	75,1	50,5
Z10275 03	83	124,8	115,9	109,5	102,8	94,2	80,5	56,9

Pump performance at 2900 rpm

z10275-2p50-1-en_b_th



DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10275 01/1B-L6W	19	1603	258	144	3803	122
Z10275 01/1A-L6W	22	1623	258	144	3843	125
Z10275 01-L6W	30	1846	258	144	4051	137
Z10275 02/2B-L6W	37	2122	258	144	4151	177
Z10275 02/2A-L8W	45	2051	258	192	4035	248
Z10275 02-L8W	55	2166	258	192	4145	274
Z10275 03/2B-L8W	60	2432	258	192	4195	304
Z10275 03/3A-L8W	67	2512	258	192	4275	322
Z10275 03/1A-L8W	75	2592	258	192	4355	339
Z10275 03-L8W	83	2682	258	192	4445	352

z10275-2p50-1-en_d_td

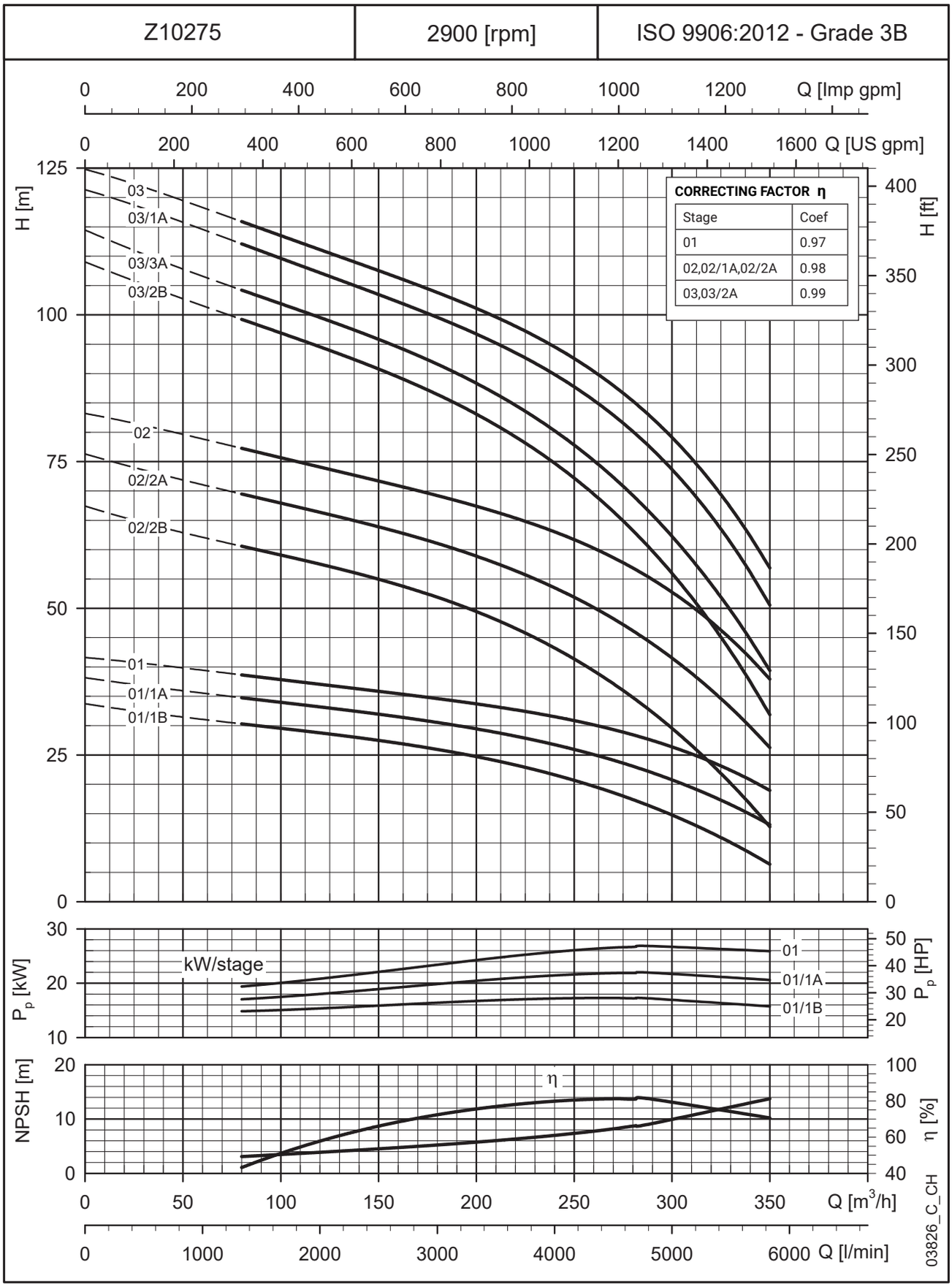
(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L6W motor.
C = 255 mm with L8W motor.

(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,8 kg.

Z10275: 1 TO 3 STAGES
OPERATING CHARACTERISTICS



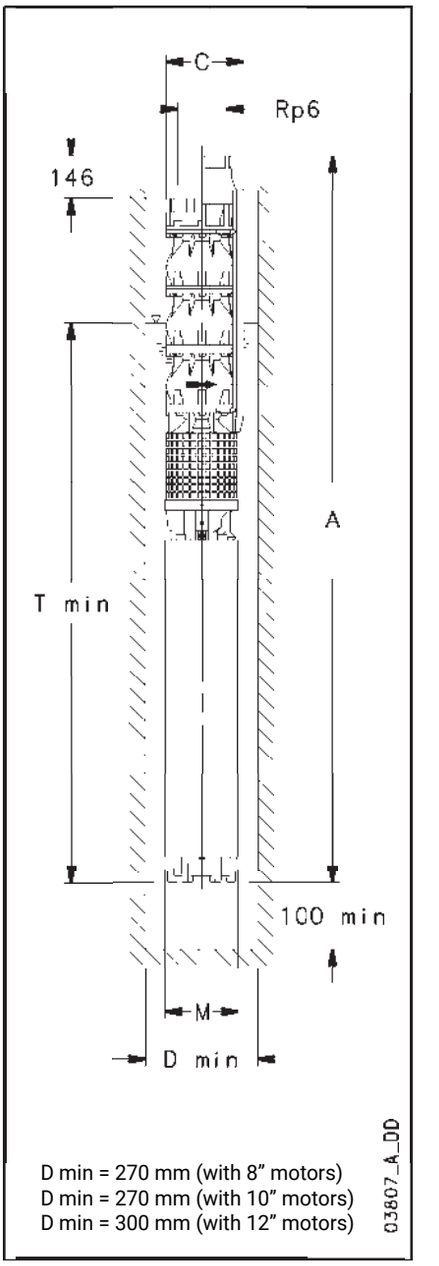
These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

Z10275: 4 TO 7 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	1333,3	2233,3	3133,3	4033,3	4933,3	5833,3
		m^3/h 0	80	134	188	242	296	350
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10275 04/3A	93	156,0	142,9	134,3	124,5	111,2	90,7	58,1
Z10275 04/2A	110	159,5	146,9	138,1	128,6	116,0	96,3	63,7
Z10275 04	110	166,4	154,5	145,9	137,0	125,6	107,3	75,8
Z10275 05/3A	130	197,6	181,6	170,7	158,7	142,6	117,6	76,8
Z10275 05	150	208,0	193,2	182,4	171,3	157,0	134,1	94,8
Z10275 06/3A	150	239,2	220,3	207,1	192,9	174,1	144,5	95,5
Z10275 06	185	249,6	231,8	218,9	205,5	188,4	161,0	113,8
Z10275 07/2A	185	284,2	262,9	247,3	231,1	210,3	177,1	119,8
Z10275 07	185	291,2	270,4	255,4	239,8	219,7	187,8	132,7

Pump performance at 2900 rpm

z10275-2p50-2-en_b_th



D min = 270 mm (with 8” motors)
D min = 270 mm (with 10” motors)
D min = 300 mm (with 12” motors)

DIMENSIONS AND WEIGHT

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10275 04/3A-L8W	93	3108	258	192	4655	397
Z10275 04/2A-L10W	110	3050	259	236	4602	513
Z10275 04-L10W	110	3050	259	236	4602	513
Z10275 05/3A-L10W	130	3416	259	236	4752	579
Z10275 05-L10W	150	3546	259	236	4882	618
Z10275 06/3A-L10W	150	3762	259	236	4882	638
Z10275 06-L12W	185	3532	283	276	4639	703
Z10275 07/2A-L12W	185	3748	283	276	4639	723
Z10275 07-L12W	185	3748	283	276	4639	723

z10275-2p50-2-en_c_td

(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L8W motor.
C = 255 mm with L10W motor
C = 280 mm with L12W motor.

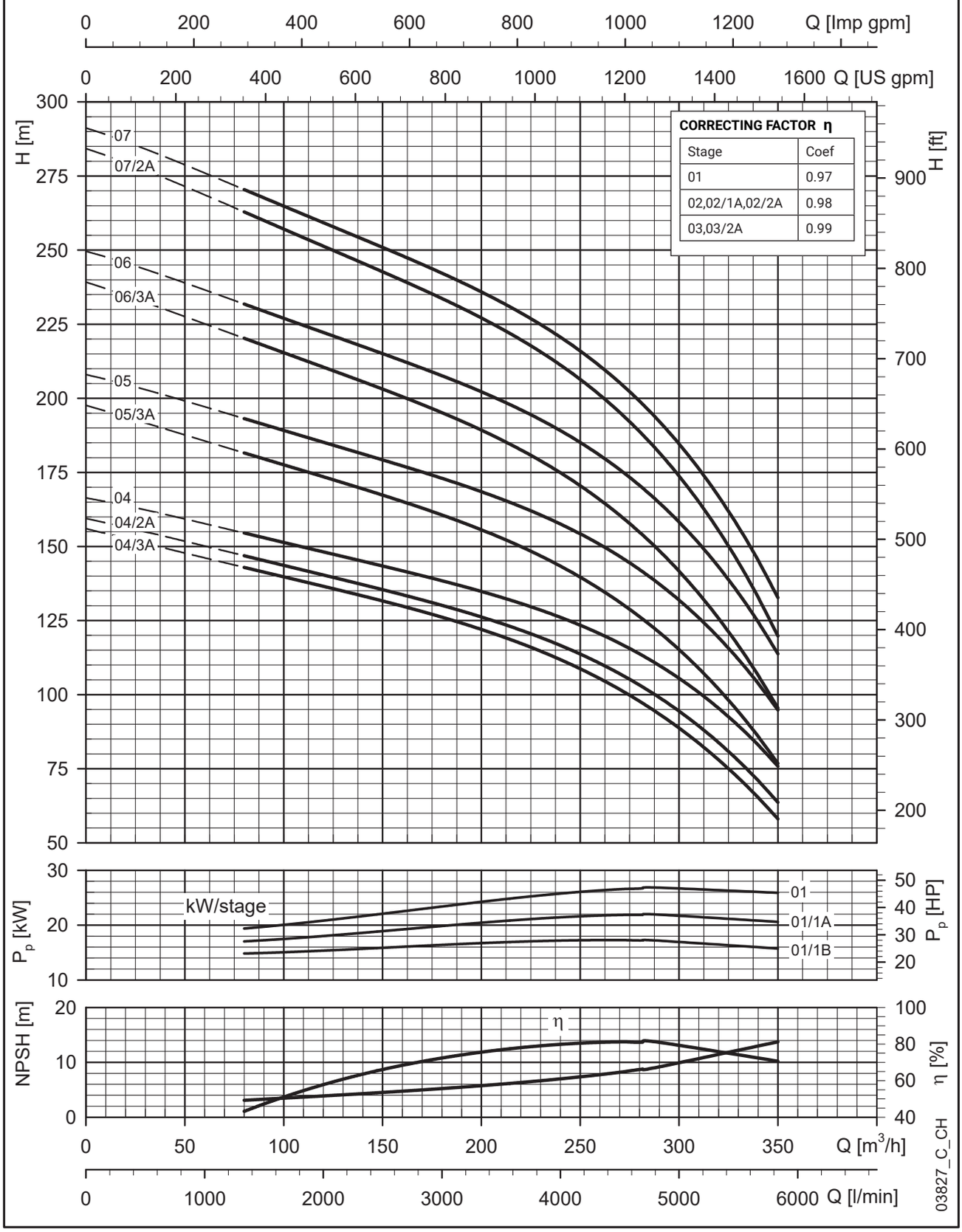
(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,8 kg.

Z10275: 4 TO 7 STAGES
OPERATING CHARACTERISTICS

Z10275	2900 [rpm]	ISO 9906:2012 - Grade 3B



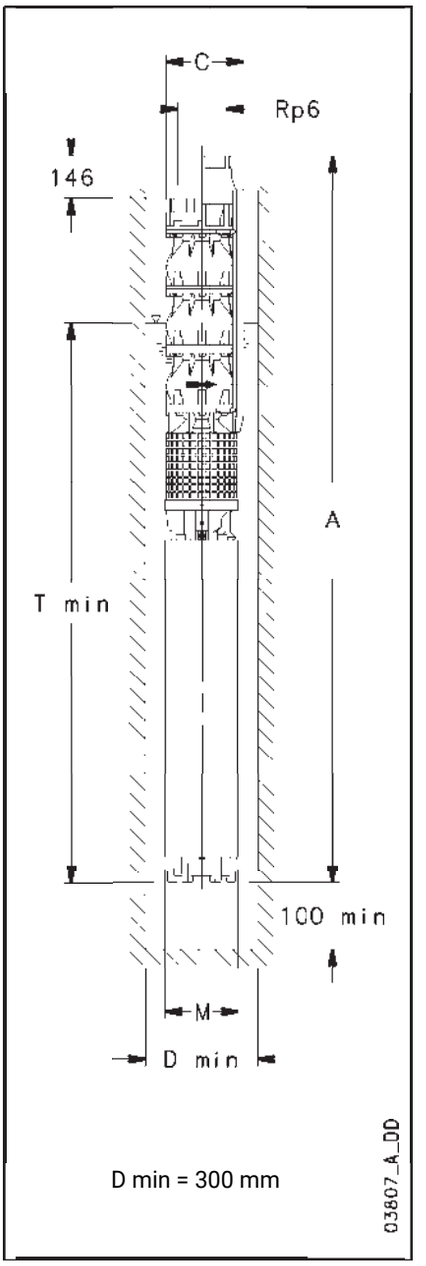
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10275: 8 TO 11 STAGES
OPERATING CHARACTERISTICS

PUMP TYPE	MOTOR POWER kW	Q = DELIVERY l/min 0	1333,3	2233,3	3133,3	4033,3	4933,3	5833,3
		m^3/h 0	80	134	188	242	296	350
		H = TOTAL HEAD METRES COLUMN OF WATER						
Z10275 08/2B	220	317,0	292,5	275,1	256,2	231,1	191,9	127,3
Z10275 08/1A	220	329,3	305,5	287,5	269,4	246,6	209,6	144,0
Z10275 09/3A	260	364,0	336,3	316,4	295,4	268,3	225,2	151,6
Z10275 09	260	374,4	347,7	328,4	308,3	282,5	241,4	170,6
Z10275 10/3A	260	405,6	375,0	352,8	329,6	299,8	252,1	170,3
Z10275 10	300	416,0	386,4	364,9	342,5	313,9	268,3	189,6
Z10275 11/1A	300	454,0	421,6	396,8	371,9	340,9	290,4	200,1

Pump performance at 2900 rpm

z10275-2p50-3-en_b_th



DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE	RATED POWER kW	DIMENSIONS (mm) A (4)	C (1)	M	T (2)	WEIGHT kg (3)
Z10275 08/2B-L12W	220	4114	283	276	4789	806
Z10275 08/1A-L12W	220	4114	283	276	4789	806
Z10275 09/3A-L12W	260	4480	283	276	4939	890
Z10275 09-L12W	260	4480	283	276	4939	890
Z10275 10/3A-L12W	260	4696	283	276	4939	909
Z10275 10-L12W	300	4846	283	276	5089	974
Z10275 11/1A-L12W	300	5062	283	276	5089	994

z10275-2p50-3-en_b_td

(1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 280 mm with L12W motor.

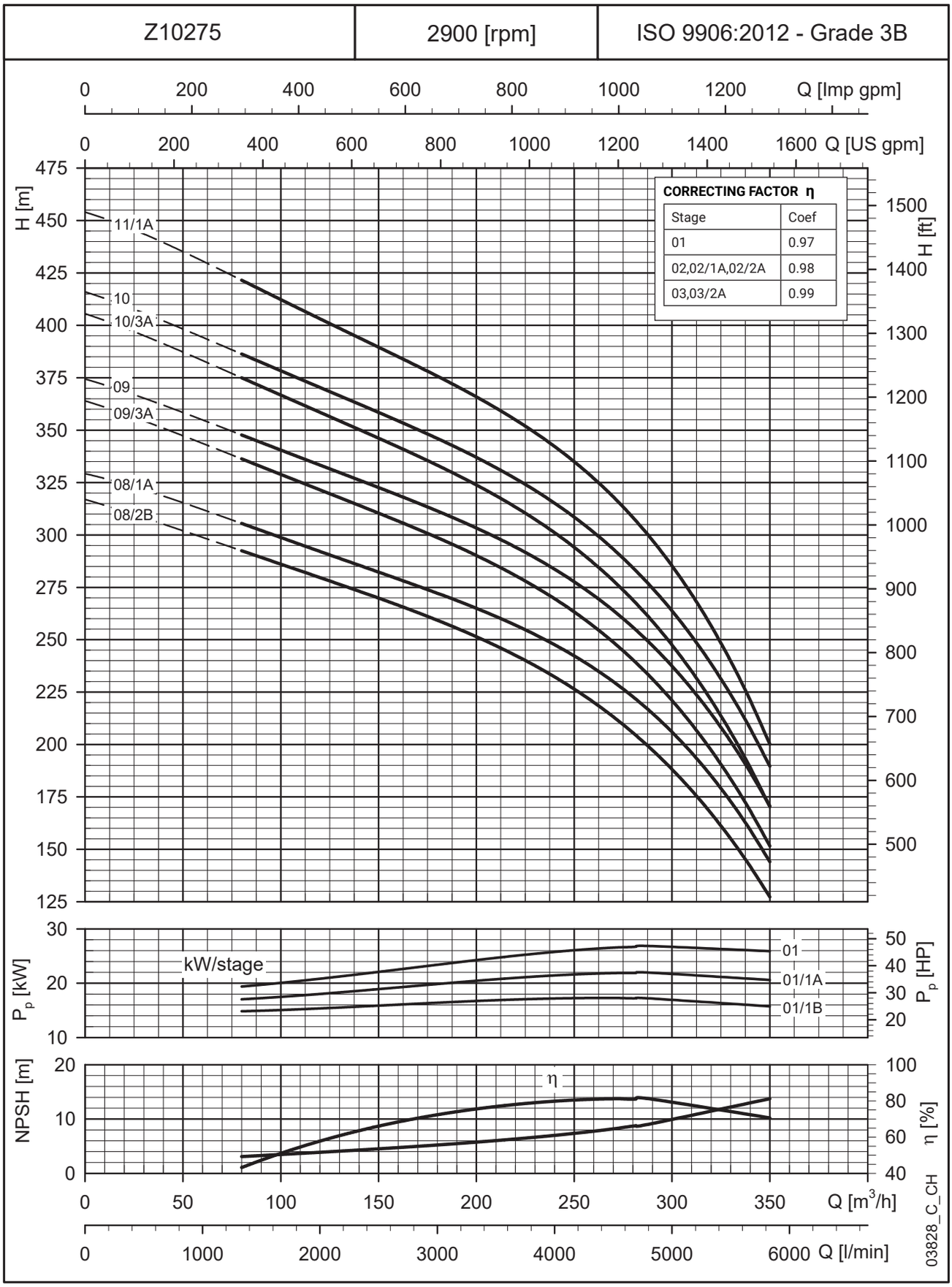
(2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.

(3) Without cables.

(4) For pumps without non-return valve, reduce dimension A by 146 mm and reduce weight by 8,8 kg.

Z10275: 8 TO 11 STAGES
OPERATING CHARACTERISTICS

Z10275	2900 [rpm]	ISO 9906:2012 - Grade 3B

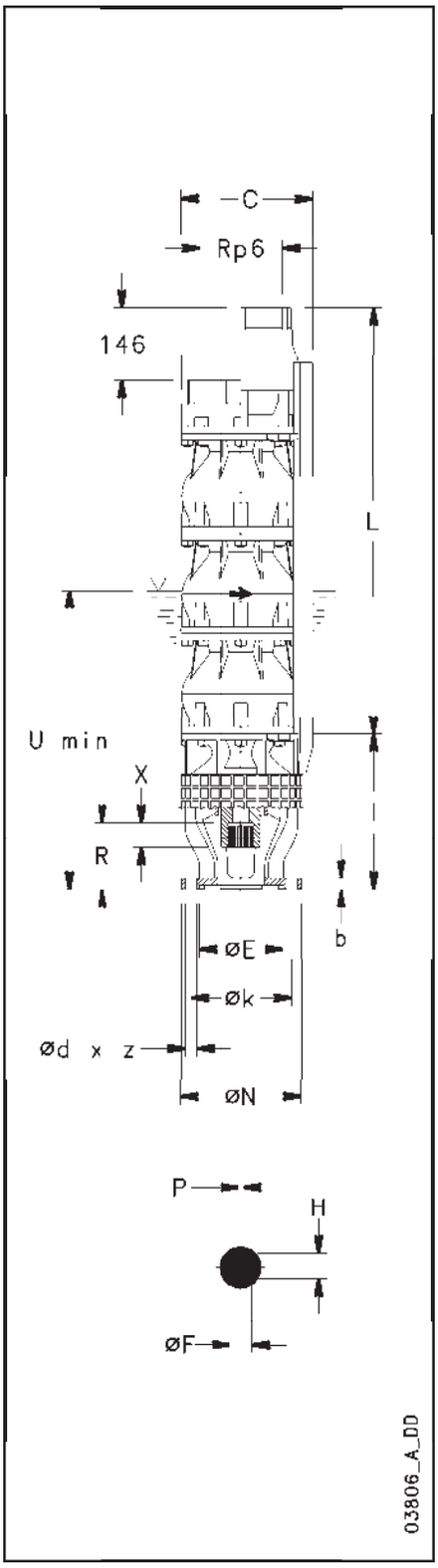


These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

Z10150 SERIES
PUMP DIMENSIONS AND WEIGHTS

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L [4]	C [1]	U [2]	WEIGHT kg [3]	Ø MIN. WELL mm
Z10150 01/1C-6	10,3	442	258	1600	48,1	270
Z10150 01/1B-6	12,8	442	258	1600	48,1	270
Z10150 01/1A-6	14,8	442	258	1600	48,1	270
Z10150 02/2C-6	20,5	658	258	1600	68,8	270
Z10150 02/2B-6	25,7	658	258	1600	68,8	270
Z10150 02/2A-6	29,6	658	258	1600	68,8	270
Z10150 03/2C-6	36,2	874	258	1600	89,5	270
Z10150 03/2B-8	41,3	874	258	1600	89,8	270
Z10150 03/2A-8	44,4	874	258	1600	89,8	270
Z10150 03-8	46,9	874	258	1600	89,8	270
Z10150 04/2C-8	51,8	1090	258	1600	110,5	270
Z10150 04/2B-8	57,0	1090	258	1600	110,5	270
Z10150 04-8	62,6	1090	258	1600	110,5	270
Z10150 05/2C-8	67,4	1306	258	1600	131,2	270
Z10150 05/2B-8	72,6	1306	258	1600	131,2	270
Z10150 05-8	78,2	1306	258	1600	131,2	270
Z10150 06/2C-8	83,0	1522	258	1600	151,9	270
Z10150 06/1B-8	91,0	1522	258	1600	151,9	270
Z10150 06-10	93,8	1522	258	1600	156,8	270
Z10150 07/3B-10	101,1	1738	258	1600	177,5	270
Z10150 07/1B-10	106,7	1738	258	1600	177,5	270
Z10150 08/3B-10	116,7	1954	258	1600	198,2	270
Z10150 08-10	125,1	1954	258	1600	198,2	270
Z10150 09/3B-10	132,4	2170	258	1600	218,9	270
Z10150 09-10	140,8	2170	258	1600	218,9	270
Z10150 10-12	156,4	2386	271	1600	240,4	300
Z10150 11-12	172,0	2602	271	1600	261,1	300
Z10150 12-12	187,7	2818	271	1600	281,8	300

z10150p-50-en_b_td



[1] Max pump diameter with 2 motor cables included.

[2] U min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.

[3] Weight with non-return valve. For pumps without non-return valve, reduce by 8,3 kg.

[4] For pumps without non-return valve, reduce dimension L by 146 mm.

The dimensions in the table are valid for pumps up to 12” and power 300kW. In other cases dimensions might differ.

MOTOR COUPLING

MOTOR CONNECTION	DIMENSIONS (mm) N	k	d	z	b	E H7	R	l
6" (NEMA)	182	111,2	13,5	4	17	76,2	73	263
8" (NEMA)	182	152,4	18	4	17	127	101,45	263
10"	232	190,5	22	4	15	127	101,45	300
12"	232	190,5	22	4	15	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
6" (NEMA)	15	16/32	30°	20
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm) F +0.084 +0.059	H +0.1	P +0.05 +0.02	X
10"	42,85	47,6	9,5	84
12"	49.212	54,5	12,7	95

z10-mtcn-50-en_b_td

Z10220 SERIES
PUMP DIMENSIONS AND WEIGHTS

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z10220 01/1C-6	14,6	442	258	2900	47,3	270
Z10220 01/1B-6	18	442	258	2900	47,3	270
Z10220 01/1A-6	21,5	442	258	2900	47,3	270
Z10220 01-6	24	442	258	2900	47,3	270
Z10220 02/2C-6	29,2	658	258	2900	66,6	270
Z10220 02/2B-6	36	658	258	2900	66,6	270
Z10220 02/2A-8	43	658	258	2900	66,9	270
Z10220 02-8	48	658	258	2900	66,9	270
Z10220 03/2B-8	60	874	258	2900	86,2	270
Z10220 03/2A-8	67	874	258	2900	86,2	270
Z10220 03-8	72	874	258	2900	86,2	270
Z10220 04/2B-8	84	1090	258	2900	105,5	270
Z10220 04/2A-8	91	1090	258	2900	105,5	270
Z10220 04-10	96	1090	258	2900	110,4	270
Z10220 05/2B-10	108	1306	258	2900	129,7	270
Z10220 05-10	120	1306	258	2900	129,7	270
Z10220 06/2B-10	132	1522	258	2900	149	270
Z10220 06-10	144	1522	258	2900	149	270
Z10220 07/2B-12	156	1738	271	2900	169,1	300
Z10220 07-12	168	1738	271	2900	169,1	300
Z10220 08/2B-12	180	1954	271	2900	188,4	300
Z10220 08-12	192	1954	271	2900	188,4	300
Z10220 09/2B-12	204	2170	271	2900	207,7	300
Z10220 09/1A-12	213,5	2170	271	2900	207,7	300
Z10220 10/2B-12	228	2386	271	2900	227	300
Z10220 10-12	240	2386	271	2900	227	300
Z10220 11/2B-12	252	2602	271	2900	246,3	300
Z10220 11-12	264	2602	271	2900	246,3	300
Z10220 12/2B-12	276	2818	271	2900	265,6	300
Z10220 12-12	288	2818	271	2900	265,6	300

z10220p-50-en_b_td

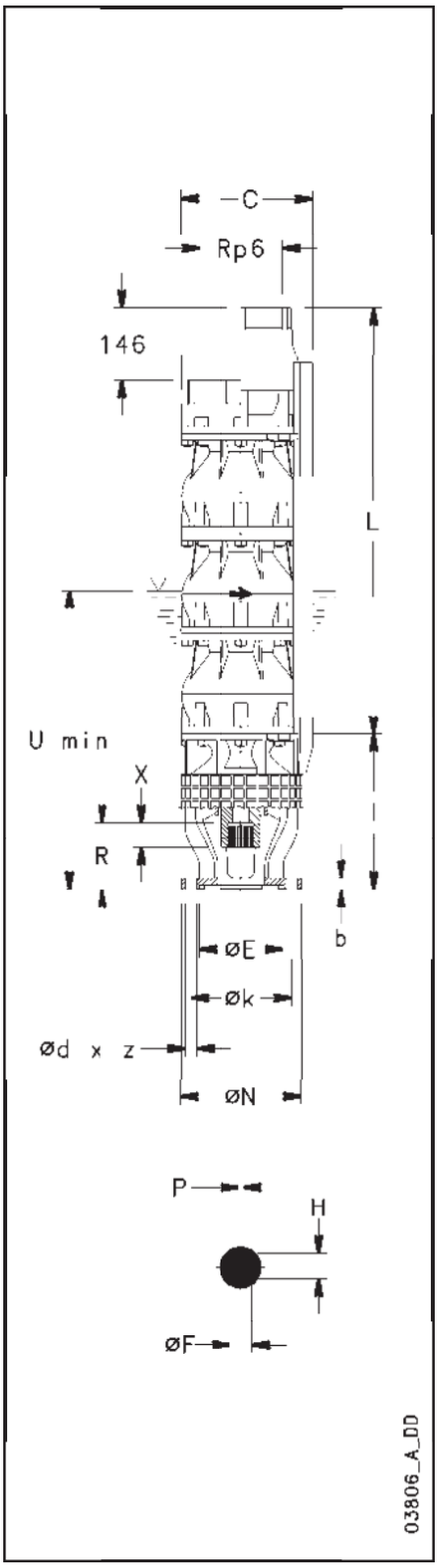
(1) Max pump diameter with 2 motor cables included.

(2) U min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.

(3) Weight with non-return valve. For pumps without non-return valve, reduce by 8,3 kg.

(4) For pumps without non-return valve, reduce dimension L by 146 mm.

The dimensions in the table are valid for pumps up to 12" and power 300kW. In other cases dimensions might differ.



MOTOR COUPLING

MOTOR CONNECTION	DIMENSIONS (mm) N	k	d	z	b	E H7	R	l
6" (NEMA)	182	111,2	13,5	4	17	76,2	73	263
8" (NEMA)	182	152,4	18	4	17	127	101,45	263
10"	232	190,5	22	4	15	127	101,45	300
12"	232	190,5	22	4	15	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
6" (NEMA)	15	16/32	30°	20
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm) F +0.084 +0.059	H +0.1	P +0.05 +0.02	X
10"	42,85	47,6	9,5	84
12"	49.212	54,5	12,7	95

z10-mtcn-50-en_b_td

Z10275 SERIES
PUMP DIMENSIONS AND WEIGHTS

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z10275 01/1B-6	17,3	442	258	2900	47,4	270
Z10275 01/1A-6	21,9	442	258	2900	47,4	270
Z10275 01-6	26,9	442	258	2900	47,4	270
Z10275 02/2B-6	34,6	658	258	2900	66,9	270
Z10275 02/2A-8	43,8	658	258	2900	67,2	270
Z10275 02-8	53,8	658	258	2900	67,2	270
Z10275 03/2B-8	61,5	874	258	2900	86,7	270
Z10275 03/3A-8	65,7	874	258	2900	86,7	270
Z10275 03/1A-8	75,7	874	258	2900	86,7	270
Z10275 03-8	80,7	874	258	2900	86,7	270
Z10275 04/3A-8	92,6	1090	258	2900	106,2	270
Z10275 04/2A-10	97,6	1090	258	2900	111,1	270
Z10275 04-10	107,6	1090	258	2900	111,1	270
Z10275 05/3A-10	119,5	1306	258	2900	130,6	270
Z10275 05-10	134,5	1306	258	2900	130,6	270
Z10275 06/3A-10	146,4	1522	258	2900	150,1	270
Z10275 06-12	161,4	1522	271	2900	150,1	300
Z10275 07/2A-12	178,3	1738	271	2900	170,4	300
Z10275 07-12	188,3	1738	271	2900	170,4	300
Z10275 08/2B-12	196,0	1954	271	2900	189,9	300
Z10275 08/1A-12	210,2	1954	271	2900	189,9	300
Z10275 09/3A-12	227,1	2170	271	2900	209,4	300
Z10275 09-12	242,1	2170	271	2900	209,4	300
Z10275 10/3A-12	254,0	2386	271	2900	228,9	300
Z10275 10-12	269,0	2386	271	2900	228,9	300
Z10275 11/1A-12	290,9	2602	271	2900	248,4	300

z10275p-50-en_b_td

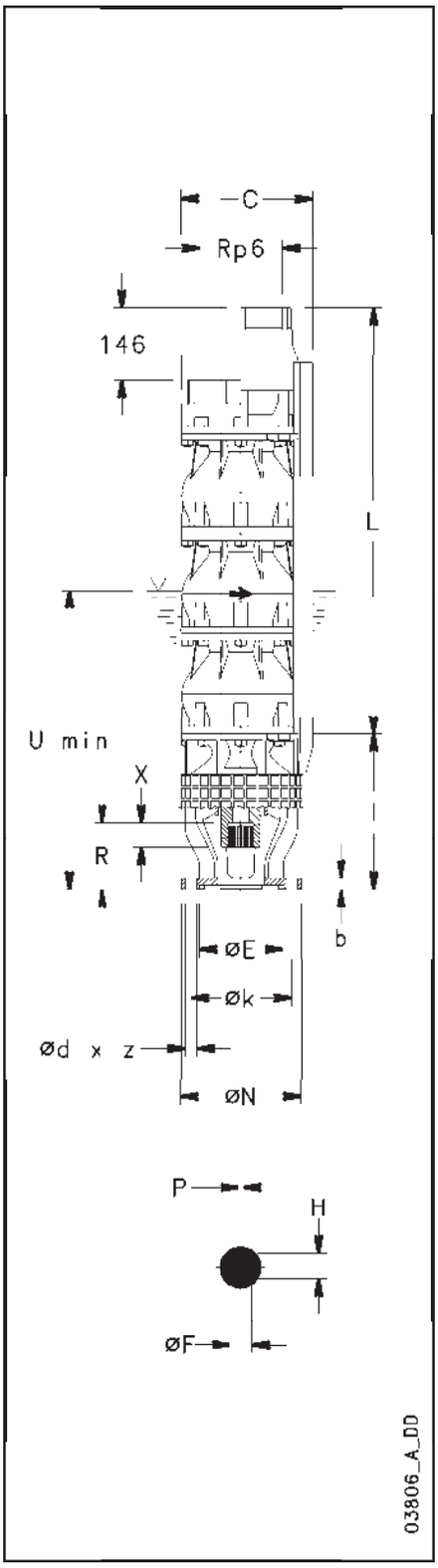
(1) Max pump diameter with 2 motor cables included.

(2) U min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.

(3) Weight with non-return valve. For pumps without non-return valve, reduce by 8,8 kg.

(4) For pumps without non-return valve, reduce dimension L by 146 mm.

The dimensions in the table are valid for pumps up to 12” and power 300kW. In other cases dimensions might differ.



MOTOR COUPLING

MOTOR CONNECTION	DIMENSIONS (mm) N	k	d	z	b	E H7	R	l
6" (NEMA)	182	111,2	13,5	4	17	76,2	73	263
8" (NEMA)	182	152,4	18	4	17	127	101,45	263
10"	232	190,5	22	4	15	127	101,45	300
12"	232	190,5	22	4	15	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
6" (NEMA)	15	16/32	30°	20
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COUPLING	DIMENSIONS (mm) F +0.084 +0.059	H +0.1	P +0.05 +0.02	X
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z10-mtcn-50-en_b_td