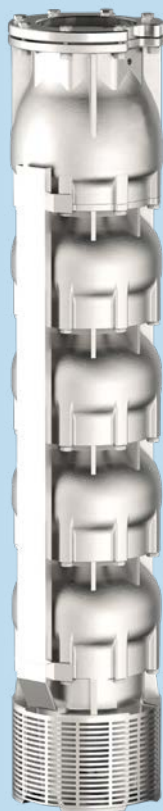


10-12LM & E14 lines

Deepwell Borehole



10LM line



12LM line



E14

Submersible Multistage Centrifugal Pumps for 10", 12", and 14" Wells.

These pumps are equipped with a check valve integrated into the delivery outlet. The pump motor bracket and coupling are designed in accordance with NEMA standards, ensuring reliability and compatibility.

Common applications include civil and agricultural uses. All components are manufactured from stainless steel using lost wax microfusion technology. The standard material is AISI 304 stainless steel, with the following materials available upon request: AISI 316 stainless steel, Duplex steel (EN 1.4462), and AISI 904L stainless steel.

The bushing bearings and wear rings are made from sand abrasion-resistant rubber, while the reverse-thrust ring is constructed from PTFE/Graphite for enhanced durability and performance.

General operating data:

- Capacity up to 1.000 m³/h
- Pressure up to 389 m
- Hydraulic efficiency 10", up to 79,3%
- Hydraulic efficiency 12", up to 82,5%
- Hydraulic efficiency 14", up to 82,3%
- Powers up to 400 kW
- Rotation speed 3.600 rpm
- Maximum depth: 350 m
- Maximum quantity of sand: 100 gr/m³
- Drinking water compatibility according to DM174 MEI $\geq 0,4$ (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B.

Construction features

Suction and delivery outlet	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex EN 1.4462 (LMD - ED) Cast iron (E)
Valve	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex EN 1.4462 (LMD - ED) Cast iron (E)
Impellers and diffusers	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX - EX) Duplex EN 1.4462 (LMD - ED) Cast iron (E)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LMS) stainless steel AISI 316 (LMX) Duplex EN 1.4462 (LMD) AISI 431 (E - EX - ED)
Quantity of sand in the water	max 100 g/m ³

Motor

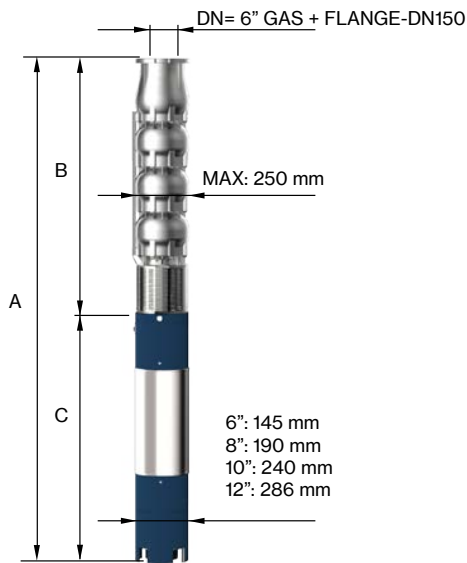
Asynchronous 2 pole	rewindable water cooled
Insulation class	Y (max 30 °C) - PPC winding type F (max 50 °C) - PE2+PA or LPE winding type
Protection degree	IP68
Liquid temperature	max 30 °C (max 50 °C on request)
Depth of immersion	max 350 m



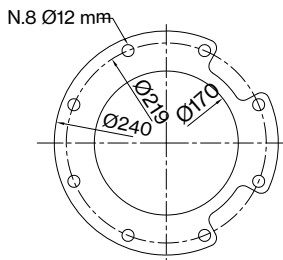
60 Hz - 3500 rpm			Q										
TYPE	P2		l/min	0	3600	4200	4800	5400	6000	6600	7200	7800	8400
			l/sec	0	60	70	80	90	100	110	120	130	140
	HP	kW	m ³ /h	0	216	252	288	324	360	396	432	468	504
12LM 360/01DR35	90	66	H (m)	59	55	53	53	50	48	46	41		
12LM 360/01DR26	100	75		66	64	63	62	60	56	54	52	49	
12LM 360/01DR20	125	92		71	69	68	67	65	63	60	58	54	49
12LM 360/01DR10D	150	110		79	75	74	73	71	69	67	63	60	58
12LM 360/01D	150	110		89	81	79	79	76	75	74	72	67	60
12LM 360/02DR35D	175	130		118	109	107	105	101	95	91	82		
12LM 360/02DR26D	225	165		132	128	127	124	121	112	108	104	98	
12LM 360/02DR20D	250	185		141	137	135	134	130	126	121	115	108	98
12LM 360/02DR10D	300	220		158	150	149	146	143	138	134	127	121	115
12LM 360/02D	300	220		179	161	158	157	153	150	149	144	134	121

Max Eff. % =	81
Max Eff. % DR10 =	80,5
Max Eff. % DR20 =	80
Max Eff. % DR26 =	78,5
Max Eff. % DR35 =	77,5
Max kW / St. Nom. =	111,1
Max kW / St. DR10 =	95,5
Max kW / St. DR20 =	85,6
Max kW / St. DR26 =	76,3
Max kW / St. DR35 =	63,7

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	M	P
12LM 360/01DR35-8	8" NEMA	2073	770	1303	214	79
12LM 360/01DR26-8		2153	770	1383	230	79
12LM 360/01DR20-8		2353	770	1583	270	79
12LM 360/01DR10D-8		2503	770	1733	300	79
12LM 360/01D-8		2503	770	1733	300	79
12LM 360/02DR35D-10	10"	2634	1000	1634	385	104
12LM 360/02DR26D-10		2854	1000	1854	444	104
12LM 360/02DR20D-10		2984	1000	1984	480	104
12LM 360/02DR10D	12"	3110	1000	2110	700	104
12LM 360/02D		3110	1000	2110	700	104

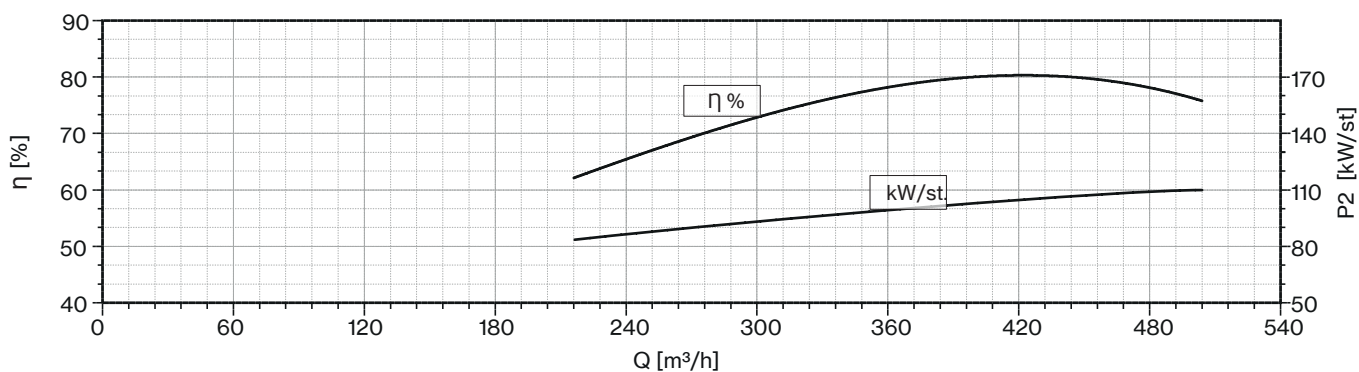
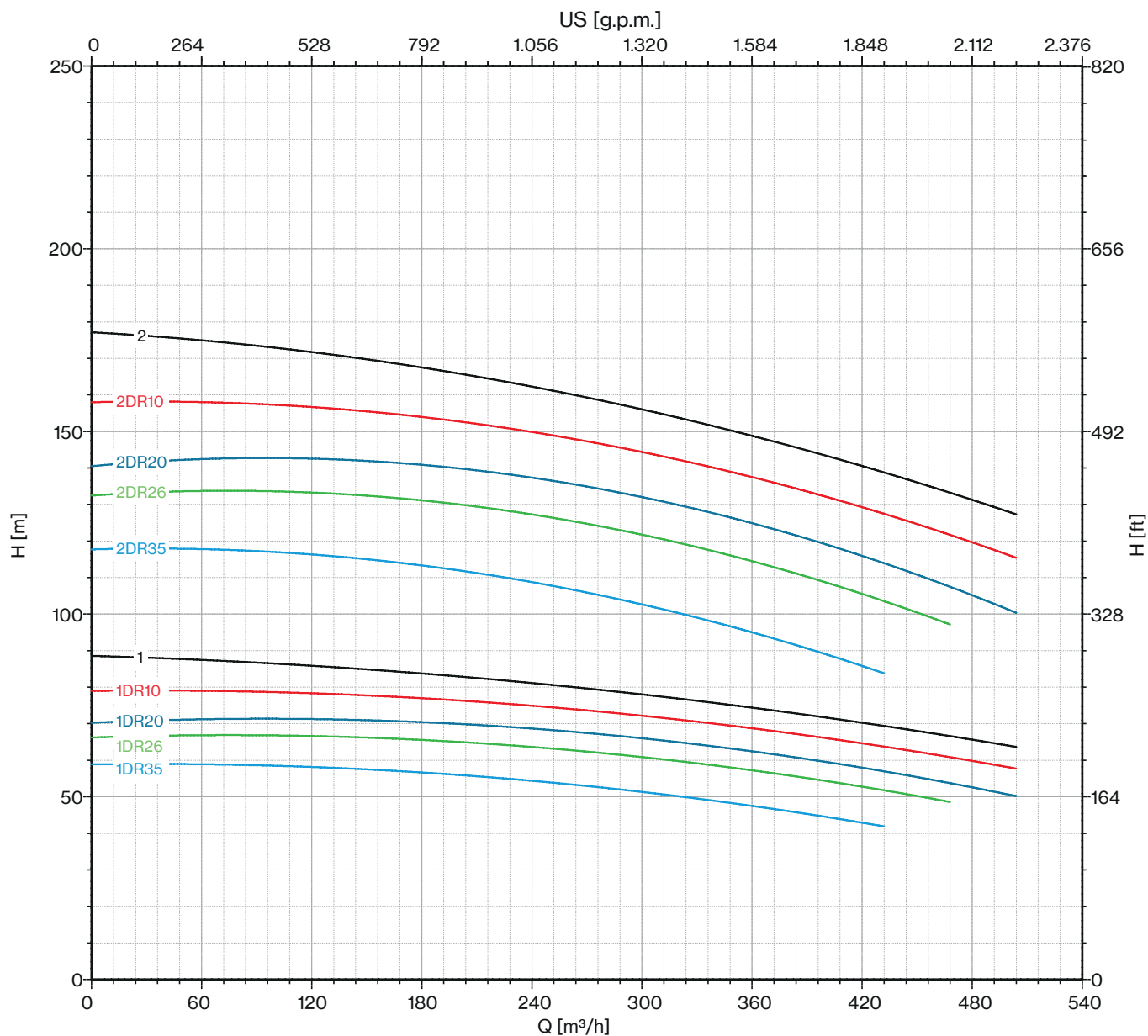


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 168,3 mm

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462



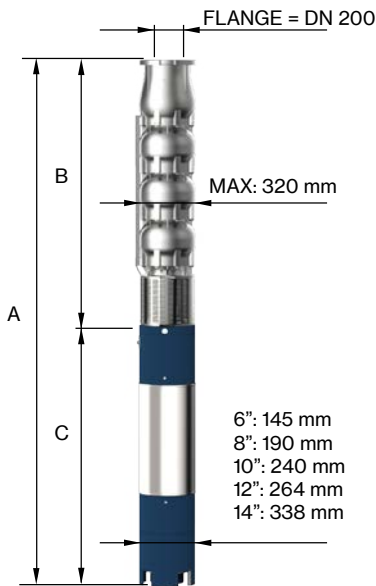
12LM 360



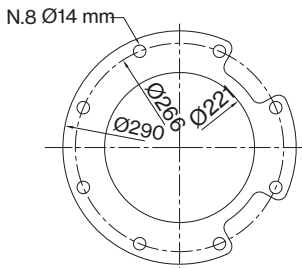
60 Hz - 3500 rpm			Q										
TYPE	P2		l/min	0	3600	4200	4800	5400	6000	6600	7200	7800	8400
			l/sec	0	60	70	80	90	100	110	120	130	140
	HP	kW	m³/h	0	216	252	288	324	360	396	432	468	504
12LM 360/03DR35D	300	220	H (m)	177	164	160	158	151	143	137	124		
12LM 360/03DR26D	340	250		199	193	190	186	181	168	162	156	147	
12LM 360/03DR20D	400	300		212	206	203	201	194	188	181	173	162	147
12LM 360/03DR10D	400	300		238	225	223	219	214	207	201	190	181	173
12LM 360/03D	500	370		268	242	238	236	229	225	223	216	201	181
12LM 360/04DR35D	400	300		236	219	213	211	202	190	182	165		
12LM 360/04DR26D	500	370		265	257	253	248	242	225	217	207	196	
12LM 360/04DR20D	500	370		282	274	271	268	259	251	242	230	217	196
12LM 360/04DR10D	550	400		317	300	297	291	286	276	268	253	242	230

Max Eff. % =	81
Max Eff. % DR10 =	80,5
Max Eff. % DR20 =	80
Max Eff. % DR26 =	78,5
Max Eff. % DR35 =	77,5
Max kW / St. Nom. =	111,1
Max kW / St. DR10 =	95,5
Max kW / St. DR20 =	85,6
Max kW / St. DR26 =	76,3
Max kW / St. DR35 =	63,7

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 360/03DR35D	12"	3340	1230	2110	700	129
12LM 360/03DR26D		3510	1230	2280	775	129
12LM 360/03DR20D-14	14"	3510	1230	2280	775	129
12LM 360/03DR10D-14		3510	1230	2280	775	129
12LM 360/03D-14		3550	1230	2320	1010	129
12LM 360/04DR35D-14		3740	1460	2280	775	154
12LM 360/04DR26D-14		3780	1460	2320	1010	154
12LM 360/04DR20D-14		3780	1460	2320	1010	154
12LM 360/04DR10D-14		3920	1460	2460	1105	154

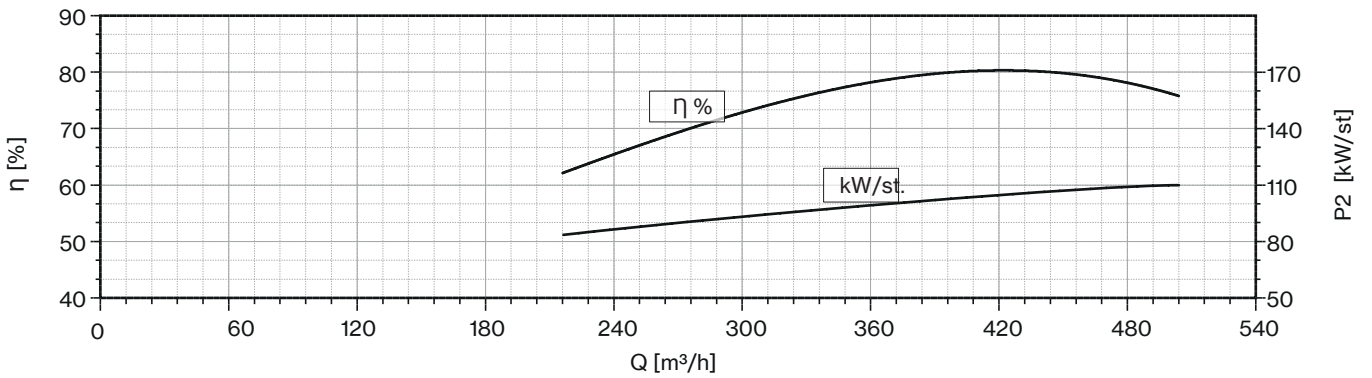
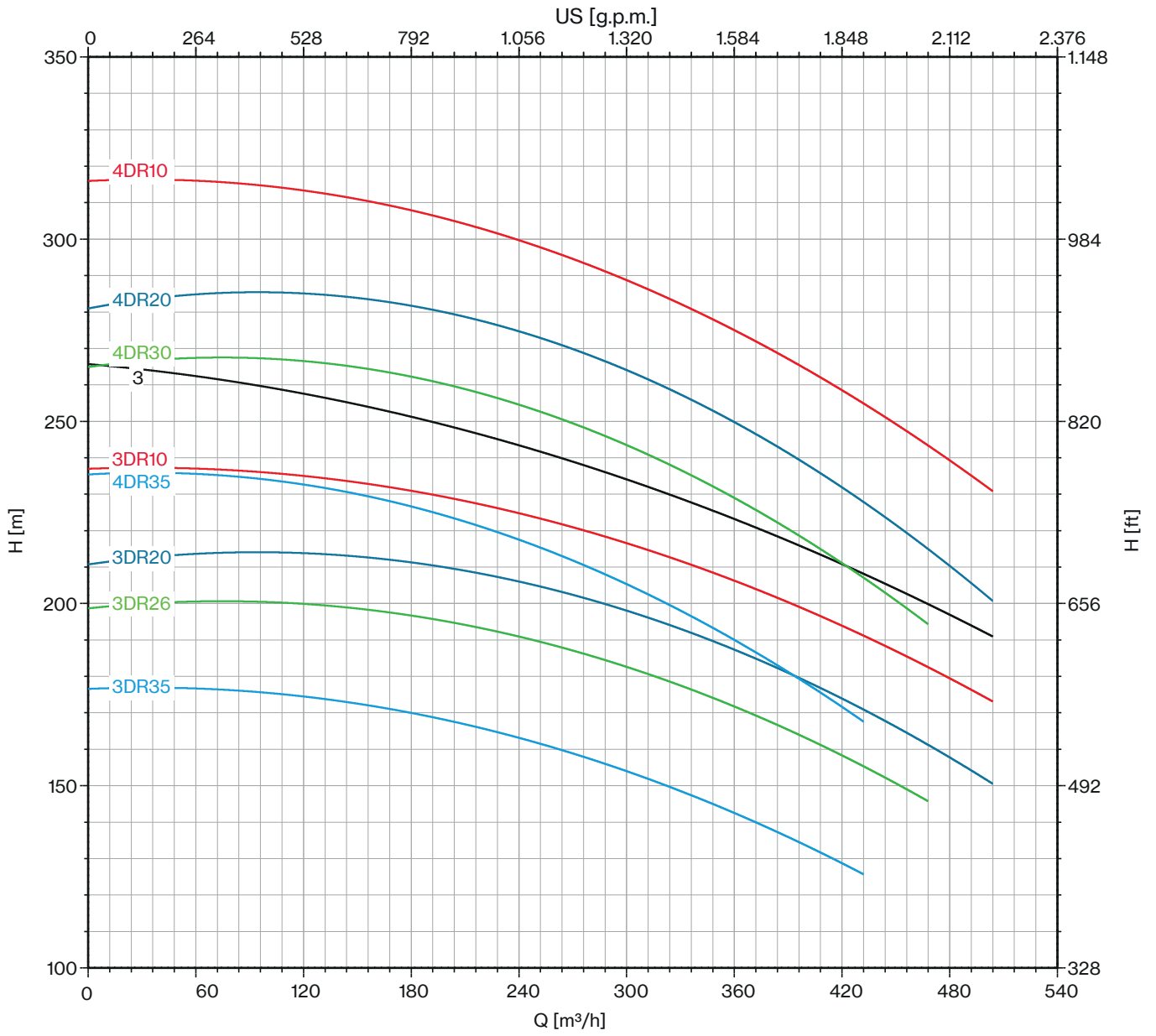


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

"DR" : reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462



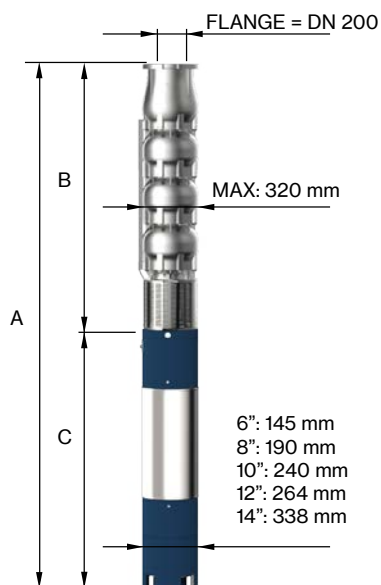
12LM 360



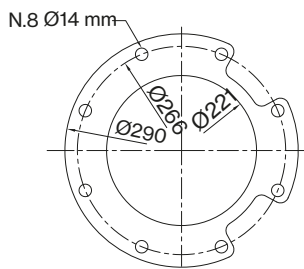
60 Hz - 3500 rpm			Q													
TYPE	P2		l/min	0	4800	5400	6000	6600	7200	7800	8400	9000	9600	10200	10800	
			l/sec	0	80	90	100	110	120	130	140	150	160	170	180	
	HP	kW	m ³ /h	0	287,9	323,9	359,9	395,9	431,9	467,9	503,9	539,9	575,9	611,9	647,9	
12LM 400/01DR30	90	66	H (m)	62	56	54	52	49	46	43	39	35				
12LM 400/01DR20	125	92		68	63	62	59	56	53	50	47	43	37	32		
12LM 400/01DR10	125	92		76	72	69	66	63	60	58	55	51	46	40		
12LM 400/01D	150	110		84	78	75	72	69	66	63	60	58	53	45	39	
12LM 400/01AD	175	130		88	82	78	76	75	72	69	66	64	59	56	46	
12LM 400/02DR30D	175	130		124	112	108	104	98	92	85	78	69				
12LM 400/02DR20D	225	165		135	127	124	118	111	105	100	94	85	75	63		
12LM 400/02DR10D	250	185		153	144	138	132	127	121	115	109	103	92	81		
12LM 400/02D	300	220		167	156	150	144	138	132	127	121	115	105	89	78	
12LM 400/02AD	340	250		176	164	156	153	150	144	138	132	128	118	112	92	

Max Eff. % A =	82,5
Max Eff. % =	81,6
Max Eff. % DR10 =	82,7
Max Eff. % DR20 =	81,8
Max Eff. % DR30 =	81,2
Max kW / St. A =	115,9
Max kW / St. Nom. =	104,5
Max kW / St. DR10 =	91,7
Max kW / St. DR20 =	78,9
Max kW / St. DR30 =	64

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 400/01DR30-8	8" NEMA	2073	770	1303	214	79
12LM 400/01DR20-8		2353	770	1583	270	79
12LM 400/01DR10-8		2353	770	1583	270	79
12LM 400/01D-8		2503	770	1733	300	79
12LM 400/01AD-10	10"	2404	770	1634	385	79
12LM 400/02DR30D-10		2634	1000	1634	385	104
12LM 400/02DR20D-10		2854	1000	1854	444	104
12LM 400/02DR10D-10	12"	2984	1000	1984	480	104
12LM 400/02D		3110	1000	2110	700	104
12LM 400/02AD		3280	1000	2280	775	104

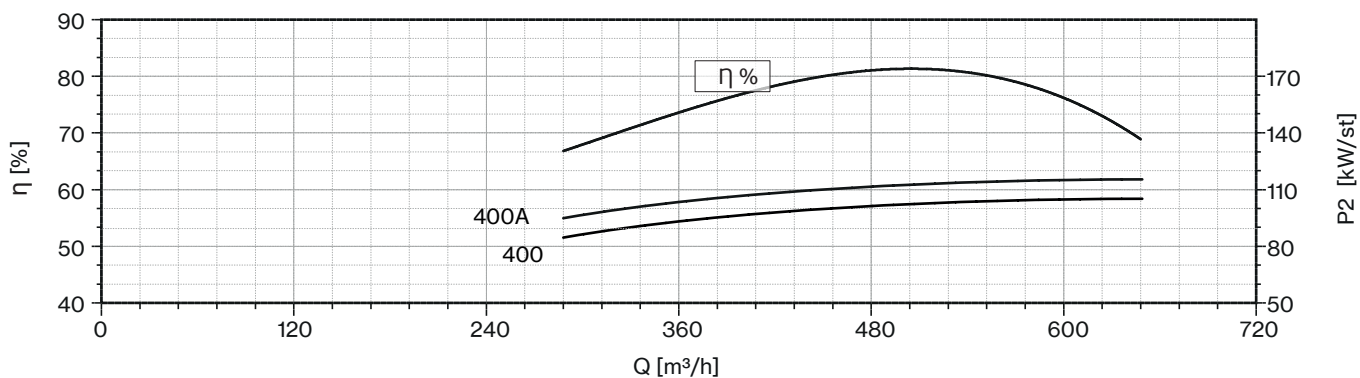
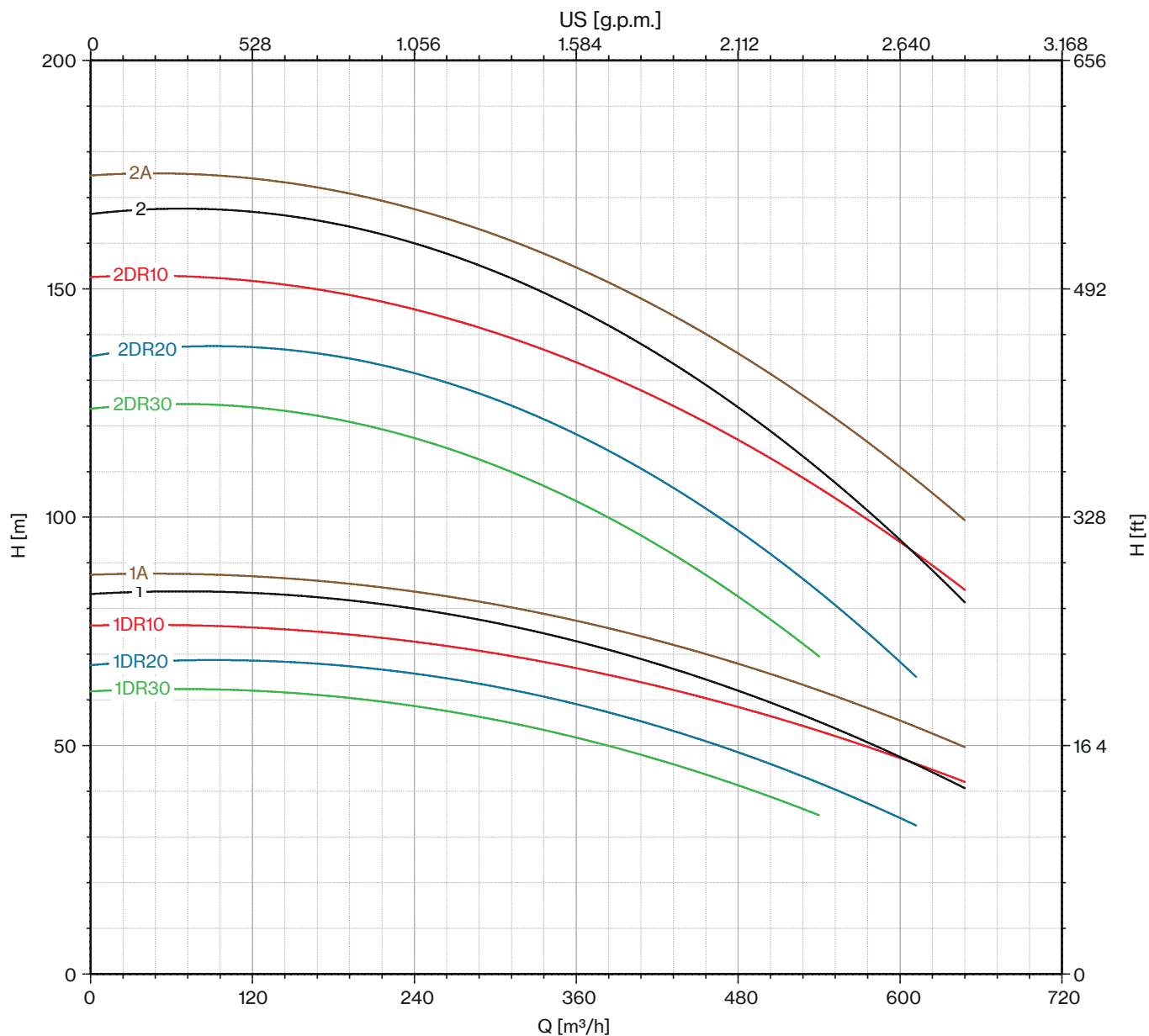


FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

"DR": reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462



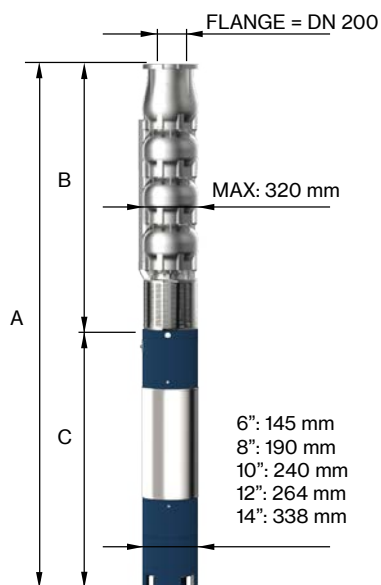
12LM 400



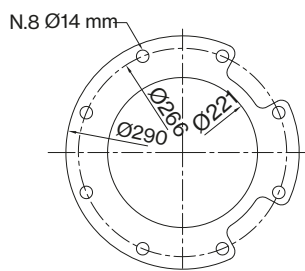
60 Hz - 3500 rpm			Q												
TYPE	P2		l/min	0	4800	5400	6000	6600	7200	7800	8400	9000	9600	10200	10800
			l/sec	0	80	90	100	110	120	130	140	150	160	170	180
	HP	kW	m ³ /h	0	288	324	360	396	432	468	504	540	576	612	648
12LM 400/03DR30D	300	220	H (m)	186	168	162	156	147	138	128	117	104			
12LM 400/03DR20D	340	250		203	190	186	177	167	158	149	141	128	112	95	
12LM 400/03DR10D	400	300		229	216	207	199	190	181	173	164	154	138	121	
12LM 400/03D	450	330		251	233	225	216	207	199	190	181	173	158	134	117
12LM 400/03AD	500	370		264	246	233	229	225	216	207	199	193	177	168	138
12LM 400/04DR30D	400	300		248	225	217	207	196	184	170	156	138			
12LM 400/04DR20D	450	330		271	253	248	236	222	211	199	188	170	150	127	
12LM 400/04DR10D	500	370		305	288	276	265	253	242	230	219	205	184	161	

Max Eff. % A =	82,5
Max Eff. % =	81,6
Max Eff. % DR10 =	82,7
Max Eff. % DR20 =	81,8
Max Eff. % DR30 =	81,2
Max kW / St. A =	115,9
Max kW / St. Nom. =	104,5
Max kW / St. DR10 =	91,7
Max kW / St. DR20 =	78,9
Max kW / St. DR30 =	64

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,4	5	7,8	11,8



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
12LM 400/03DR30D	12"	3340	1230	2110	700	129
12LM 400/03DR20D		3510	1230	2280	775	129
12LM 400/03DR10D-14	14"	3510	1230	2280	775	129
12LM 400/03D-14		3390	1230	2160	906	129
12LM 400/03AD-14		3550	1230	2320	1010	129
12LM 400/04DR30D-14		3740	1460	2280	775	154
12LM 400/DR20D-14		3620	1460	2160	906	154
12LM 400/04DR10D-14		3780	1460	2320	1010	154

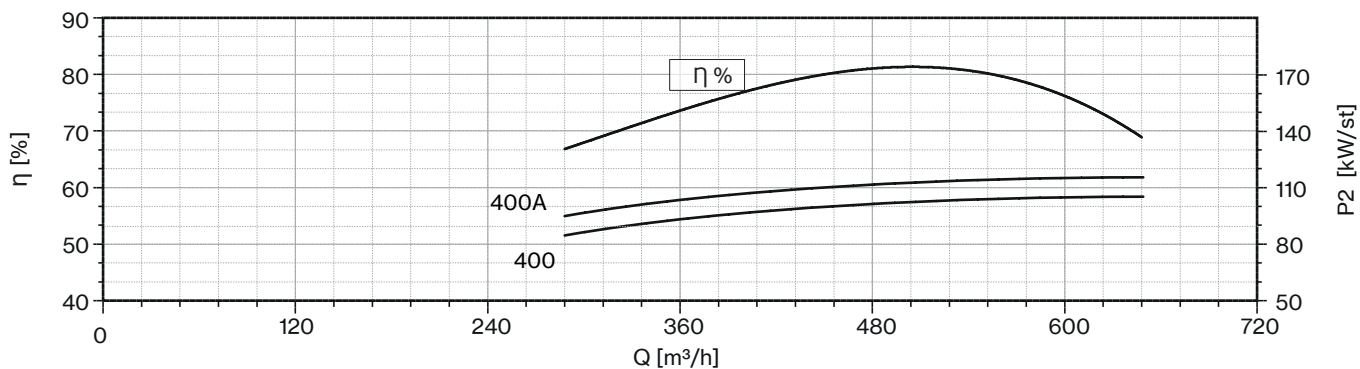
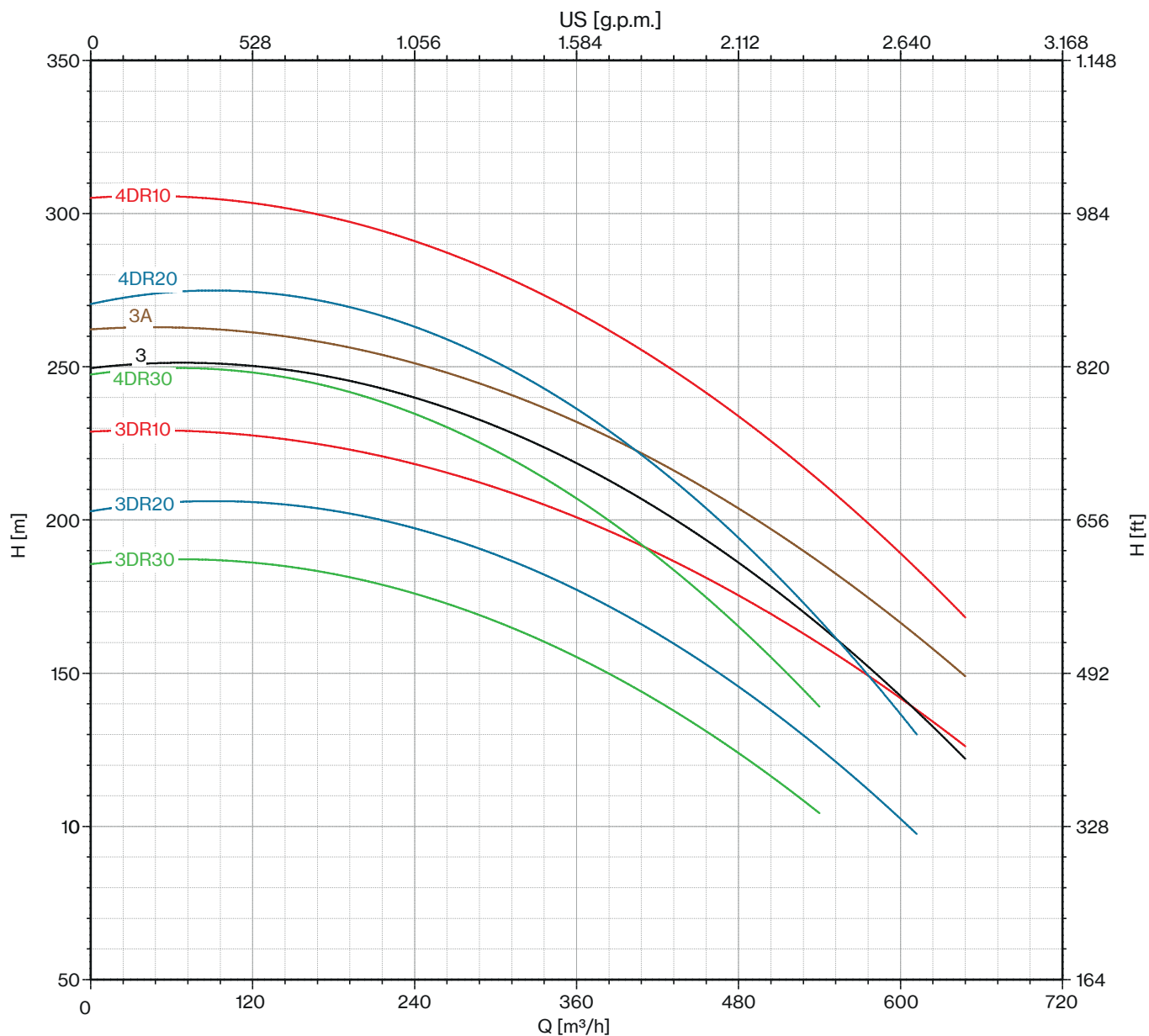


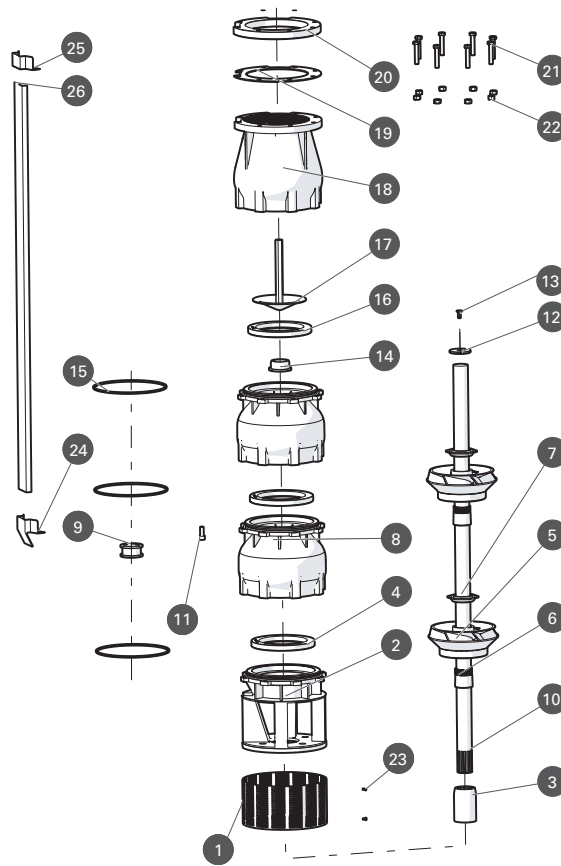
FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 219,1 mm

"DR": reduced-diameter impellers
"D" Pump shaft in Duplex EN 1.4462



12LM 400





N. CODE	DESCRIPTION	LMS EXECUTION	LMX EXECUTION	LMD EXECUTION	(*) Q.TY
1	SUCTION STRAINER	AISI 304	AISI 316	Duplex EN 1.4462	-
2	MOTOR BRACKET	AISI 304	AISI 316	Duplex EN 1.4462	-
3	COUPLING	AISI 304	AISI 316	Duplex EN 1.4462	1
4	WEAR RING	NBR	NBR	NBR	N° of Stages
5	IMPELLER	AISI 304	AISI 316	Duplex EN 1.4462	-
6	CONE	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
7	HEXAGONAL RING	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
8	DIFFUSER	AISI 304	AISI 316	Duplex EN 1.4462	-
9	BEARING BUSH	NBR	NBR	NBR	N° of Stages
10	PUMP SHAFT	AISI 304	AISI 316	Duplex EN 1.4462	1
11	N.8 SCREW FOR DIFFUSEUR	AISI 304	AISI 316	Duplex EN 1.4462	-
12	RING	AISI 304	AISI 316	Duplex EN 1.4462	1
13	SCREW FOR DISK	AISI 304	AISI 316	Duplex EN 1.4462	1
14	COUNTERTHRUST	PTFE + 25% CARBON	PTFE + 25% CARBON	PTFE + 25% CARBON	1
15	O-RING	NBR	NBR	NBR	N° of Stages
16	GASKET VALVE	NBR	NBR	NBR	1
17	CAP VALVE	AISI 304	AISI 316	Duplex EN 1.4462	-
18	BODY VALVE	AISI 304	AISI 316	Duplex EN 1.4462	-
19	SEAL COUNTERFLANGE	NBR	NBR	NBR	1
20	COUNTERFLANGE	AISI 304	AISI 316	Duplex EN 1.4462	-
21	N.8 SCREW FOR COUNTERFLANGE	AISI 304	AISI 316	Duplex EN 1.4462	-
22	N.8 NUT FOR COUNTERFLANGE	AISI 304	AISI 316	Duplex EN 1.4462	-
23	N.2 SCREW FOR SUCTION STRAINER	AISI 304	AISI 316	Duplex EN 1.4462	-
24	LOWER CLAMP	AISI 304	AISI 316	Duplex EN 1.4462	-
25	UPPER CLAMP	AISI 304	AISI 316	Duplex EN 1.4462	-
26	COVER CABLE	AISI 304	AISI 316	Duplex EN 1.4462	-

* Recommended spare parts quantity

