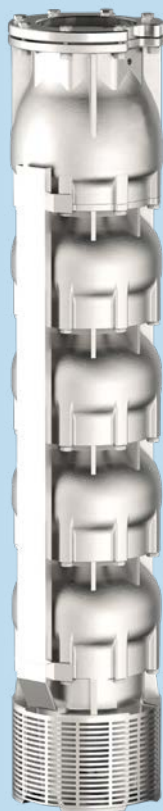


# 10-12LM & E14 lines

## 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 m<sup>3</sup>/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/m<sup>3</sup>
- Drinking water compatibility according to DM174 MEI  $\geq 0,4$  (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B.

### Construction features

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

### Motor

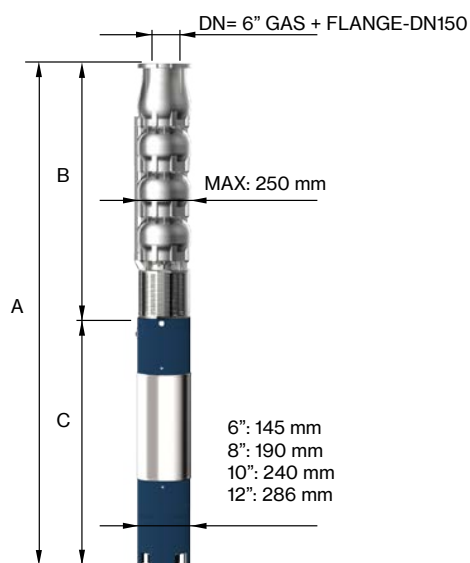
<b>Asynchronous 2 pole</b>	rewindable water cooled
<b>Insulation class</b>	Y (max 30 °C) - PPC winding type F (max 50 °C) - PE2+PA or LPE winding type
<b>Protection degree</b>	IP68
<b>Liquid temperature</b>	max 30 °C (max 50 °C on request)
<b>Depth of immersion</b>	max 350 m



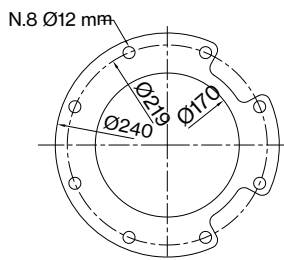
60 Hz - 3500 rpm			Q								
TYPE	P2		l/min	0	2160	2640	3120	3600	4080	4560	4800
			l/sec	0	36	44	52	60	68	76	80
	HP	kW	m³/h	0	129,6	158,4	187,2	216	244,8	273,5	287,9
10LM 190/01DR20	40	30	H (m)	50	46	43	39	35	30	24	20
10LM 190/01DR10	50	37		55	50	48	44	40	35	29	25
10LM 190/01	50	37		60	55	52	49	45	40	34	30
10LM 190/02DR20	75	55		100	91	86	79	70	59	47	40
10LM 190/02DR10	90	66		109	101	95	88	79	69	57	50
10LM 190/02	100	75		120	111	105	98	89	79	67	59
10LM 190/03DR20	125	92		149	137	129	118	105	89	71	60
10LM 190/03DR10D	150	110		164	151	143	132	119	104	86	75
10LM 190/03D	150	110		180	166	157	147	134	119	101	89
10LM 190/04DR20D	150	110		199	182	172	158	141	119	94	81
10LM 190/04DR10D	175	130		219	202	190	176	159	138	114	100
10LM 190/04D	200	150		240	221	210	196	179	159	135	119
10LM 190/05DR20D	200	150		249	228	215	197	176	148	118	101
10LM 190/05DR10D	225	165		274	252	238	220	199	173	143	125
10LM 190/05D	250	185		300	276	262	245	223	199	168	148
10LM 190/06DR20D	225	165		299	273	257	237	211	178	142	121
10LM 190/06DR10D	300	220		328	302	285	264	238	207	171	150
10LM 190/06D	300	220		359	332	314	294	268	238	202	178

Max Eff. % DR20 =	77
Max Eff. % DR10 =	77,5
Max Eff. % =	76,5
Max kW / St. DR20 =	36
Max kW / St. DR10 =	32
Max kW / St. =	27,7

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
10LM 190/01DR20-6	6" NEMA	1876	625	1251	108	41
10LM 190/01DR10-6		1966	625	1341	118	41
10LM 190/01-6		1966	625	1341	118	41
10LM 190/02DR20-8	8" NEMA	2038	805	1233	200	56
10LM 190/02DR10-8		2108	805	1303	214	56
10LM 190/02-8		2188	805	1383	230	56
10LM 190/03DR20-8		2568	985	1583	270	72
10LM 190/03DR10D-8		2718	985	1733	300	72
10LM 190/03D-8	2718	985	1733	300	72	
10LM 190/04DR20D-8	10"	2898	1165	1733	300	87
10LM 190/04DR10D		2799	1165	1634	385	87
10LM 190/04D	10"	2899	1165	1734	415	87
10LM 190/05DR20D		3079	1345	1734	415	103
10LM 190/05DR10D		3199	1345	1854	444	103
10LM 190/05D	10"	3329	1345	1984	480	103
10LM 190/06DR20D		3379	1525	1854	444	118
10LM 190/06DR10D-12		12"	3635	1525	2110	700
10LM 190/06D-12	3635		1525	2110	700	118

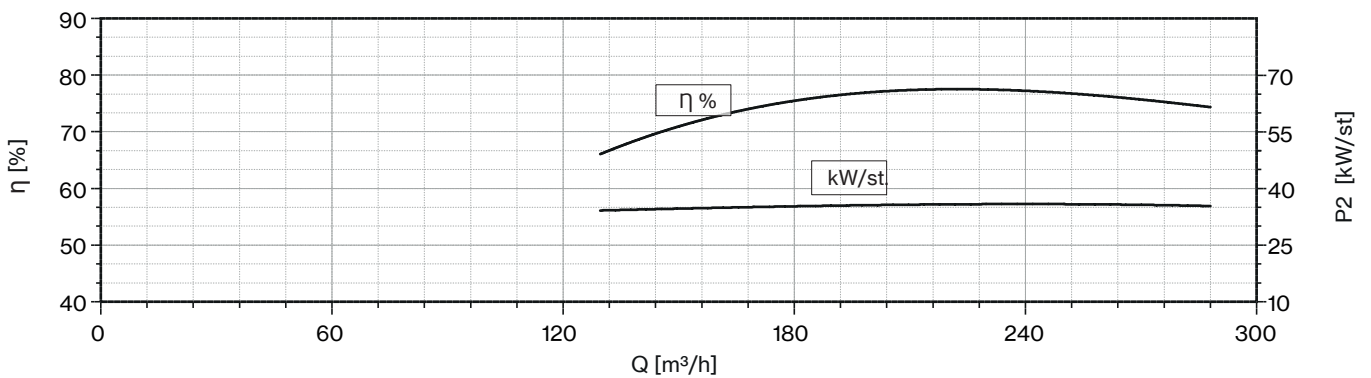
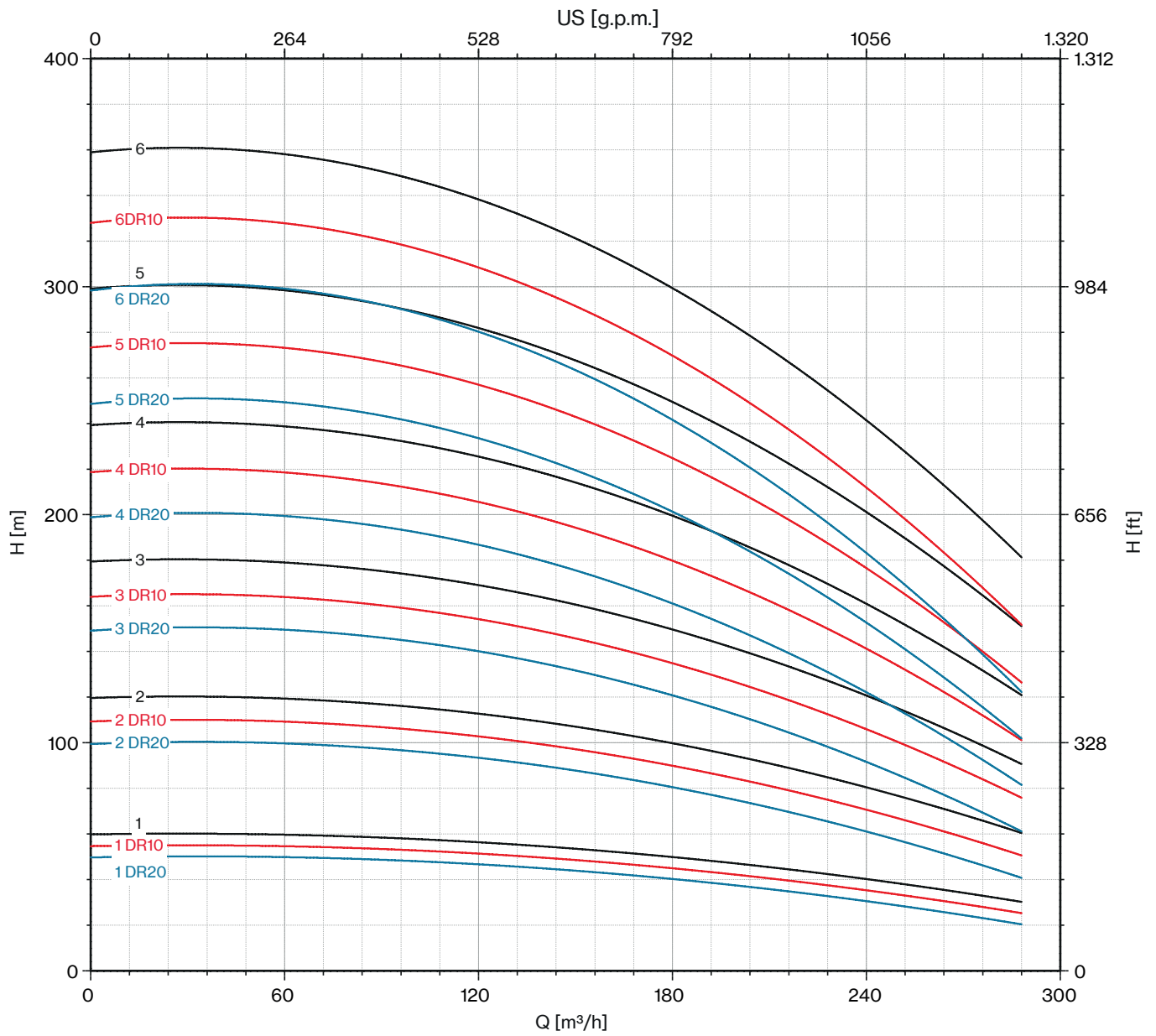


FOR COMMERCIAL TUBE  
EXTERNAL DIAMETER: 168,3 mm

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



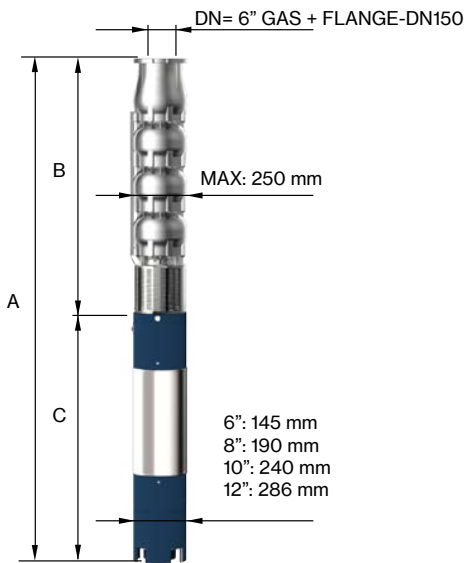
# 10LM 190



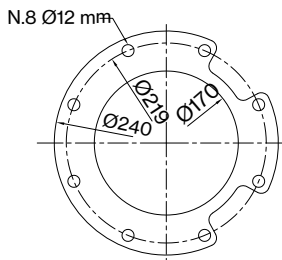
60 Hz - 3500 rpm			Q								
TYPE	P2		l/min	0	2640	3120	3600	4080	4560	5040	5520
	HP	kW	l/sec	0	44	52	60	68	76	84	92
			m³/h	0	158,4	187,2	216	244,8	273,5	302,3	331,1
10LM 230/01DR20	40	30	H (m)	53	45	42	39	36	33	27	23
10LM 230/01DR10	50	37		58	49	47	44	41	37	33	28
10LM 230/01	60	45		63	54	52	49	46	43	38	33
10LM 230/02DR20	90	66		106	89	84	78	72	65	55	46
10LM 230/02DR10	90	66		116	98	94	88	82	75	66	56
10LM 230/02	125	92		126	108	104	98	92	85	76	66
10LM 230/03DR20	125	92		159	134	125	117	108	98	82	69
10LM 230/03DR10D	150	110		175	147	141	132	124	112	98	85
10LM 230/03D	175	130		189	162	156	147	138	128	114	99
10LM 230/04DR20 D	175	130		212	179	167	156	144	130	109	92
10LM 230/04DR10 D	200	150		233	196	188	176	165	150	131	113
10LM 230/04D	225	165		252	217	207	196	184	170	152	132
10LM 230/05DR20D	225	165		265	223	209	194	180	163	137	115
10LM 230/05DR10D	250	185		291	245	235	220	206	187	164	141
10LM 230/05D	300	220		315	271	259	245	230	213	190	166
10LM 230/06DR20D	250	185		318	268	251	233	216	195	164	138
10LM 230/06DR10D	300	220		349	294	282	264	247	225	197	169
10LM 230/06D	340	250		378	325	311	294	276	256	228	199

Max Eff. % DR20 =	79,2
Max Eff. % DR10 =	79,5
Max Eff. % =	78,4
Max kW / St. DR20 =	39,4
Max kW / St. DR10 =	33,7
Max kW / St. =	30,3

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
10LM 230/01DR20-6	6" NEMA	1876	625	1251	108	41
10LM 230/01DR10-6		1966	625	1341	118	41
10LM 230/01-8	8" NEMA	1748	625	1123	178	41
10LM 230/02DR20-8		2108	805	1303	214	56
10LM 230/02DR10-8		2108	805	1303	214	56
10LM 230/02-8		2388	805	1583	270	56
10LM 230/03DR20-8	10"	2568	985	1583	270	72
10LM 230/03DR10D-8		2718	985	1733	300	72
10LM 230/03D		2619	985	1634	385	72
10LM 230/04DR20D		2799	1165	1634	385	87
10LM 230/04DR10D	10"	2899	1165	1734	415	87
10LM 230/04D		3019	1165	1854	444	87
10LM 230/05DR20D	10"	3199	1345	1854	444	103
10LM 230/05DR10D		3329	1345	1984	480	103
10LM 230/05D-12	12"	3455	1345	2110	700	103
10LM 230/06DR20D	10"	3509	1525	1984	480	118
10LM 230/06DR10D-12	12"	3635	1525	2110	700	118
10LM 230/06D-12		3805	1525	2280	775	118

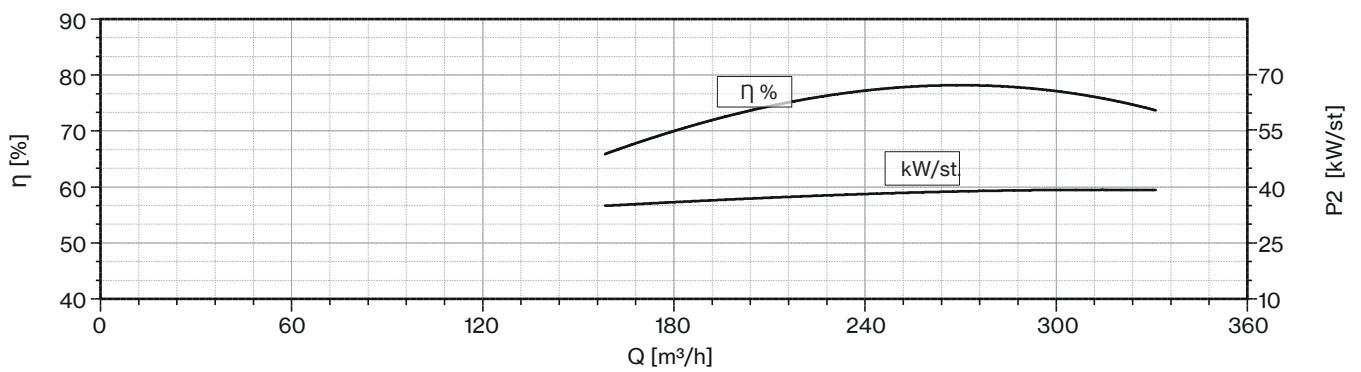
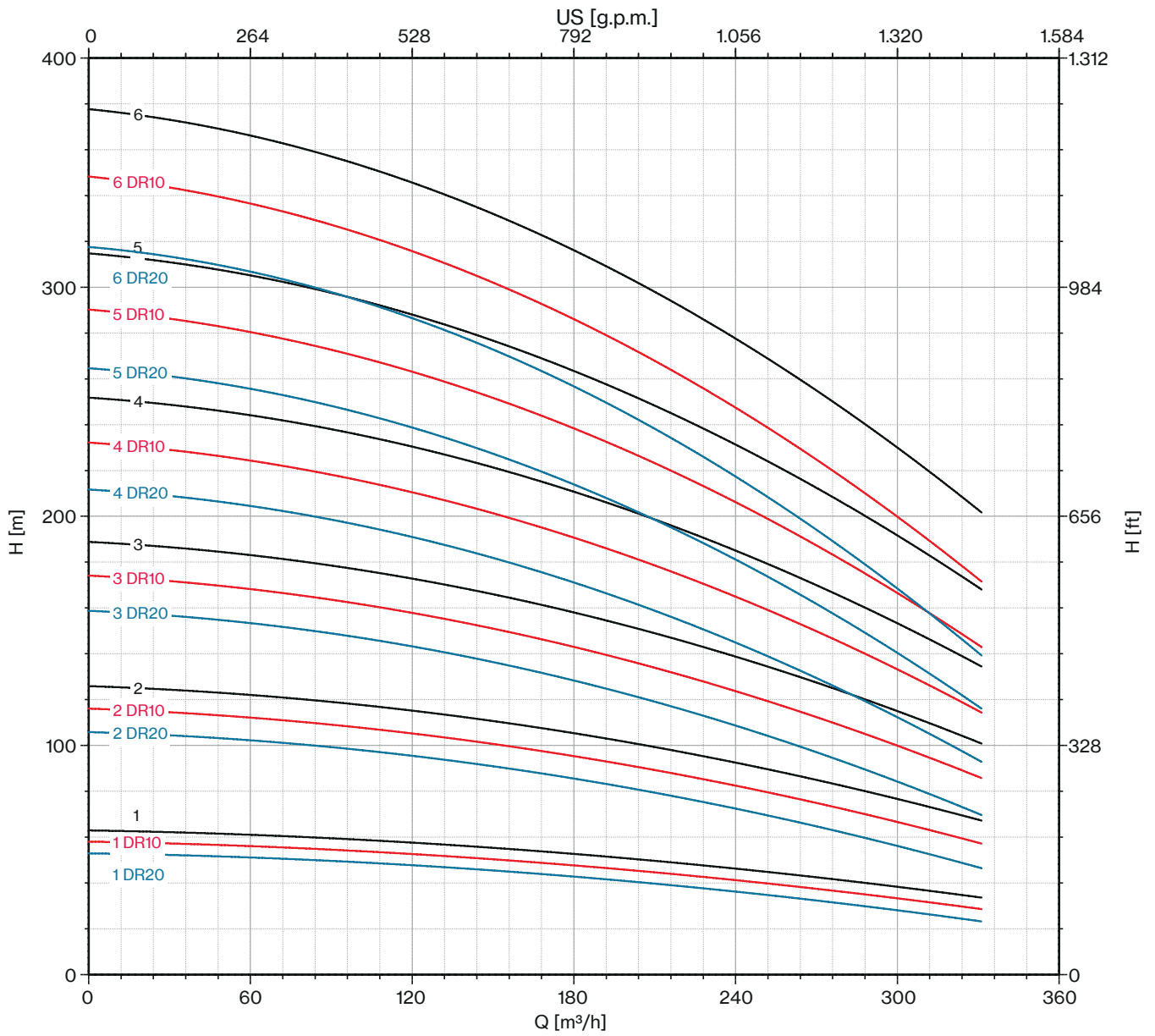


FOR COMMERCIAL TUBE  
EXTERNAL DIAMETER: 168,3 mm

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



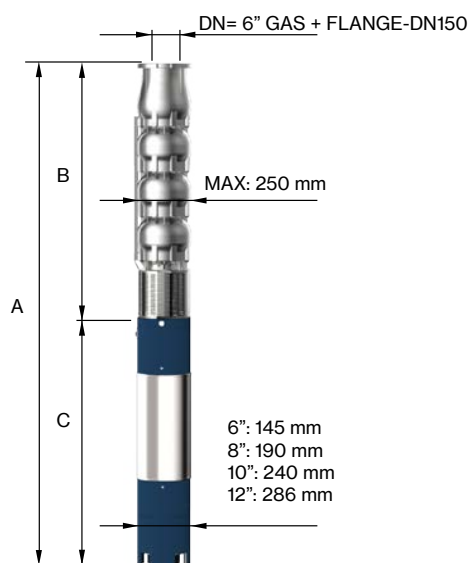
# 10LM 230



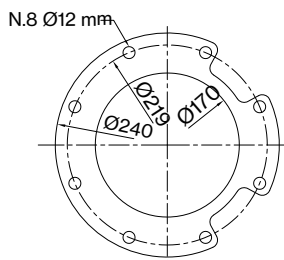
60 Hz - 3500 rpm			Q										
TYPE	P2		l/min	0	2880	3360	3840	4320	4800	5280	5760	6000	6240
			l/sec	0	48	56	64	72	80	88	96	100	104
	HP	kW	m³/h	0	172,8	201,6	230,4	259,1	287,9	316,7	345,5	359,9	374,3
10LM 250/01DR20	40	30	H (m)	45	42	41	39	36	33	30	26		
10LM 250/01DR10	50	37		52	48	46	45	41	39	35	31	29	
10LM 250/01	60	45		63	53	50	48	46	43	40	37	36	35
10LM 250/02DR20	90	66		90	84	81	78	73	67	60	51		
10LM 250/02DR10	90	66		103	96	93	89	83	77	70	63	57	
10LM 250/02	125	92		127	105	100	97	92	85	80	75	72	69
10LM 250/03DR20	125	92		135	126	122	117	109	100	91	77		
10LM 250/03DR10D	150	110		155	143	139	134	124	116	105	94	86	
10LM 250/03D	175	130		190	158	149	145	138	128	120	112	108	104
10LM 250/04DR20D	175	130		180	168	162	156	145	134	121	103		
10LM 250/04DR10D	200	150		206	191	185	179	166	154	139	126	114	
10LM 250/04D	225	165		253	211	199	194	184	170	160	150	144	138
10LM 250/05DR20D	225	165		225	210	203	194	181	167	151	128		
10LM 250/05DR10D	250	185		258	239	232	223	207	193	174	157	143	
10LM 250/05D	300	220		317	264	249	242	230	213	200	187	180	173
10LM 250/06DR20D	250	185		270	252	244	233	218	200	181	154		
10LM 250/06DR10D	300	220		309	287	278	268	249	232	209	188	171	
10LM 250/06D	340	250		380	316	299	290	276	256	240	225	216	207

Max Eff. % DR20 =	79,3
Max Eff. % DR10 =	79,5
Max Eff. % =	79
Max kW / St. DR20 =	47,6
Max kW / St. DR10 =	38,9
Max kW / St. =	31,1

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	
10LM 250/01DR20-6	6" NEMA	1876	625	1251	108	41	
10LM 250/01DR10-6		1966	625	1341	118	41	
10LM 250/01-8	8" NEMA	1858	625	1233	200	41	
10LM 250/02DR20-8		2108	805	1303	214	56	
10LM 250/02DR10-8		2188	805	1383	230	56	
10LM 250/02-8		2388	805	1583	270	56	
10LM 250/03DR20-8		2568	985	1583	270	72	
10LM 250/03DR10D-8	10"	2619	985	1634	385	72	
10LM 250/03D		2719	985	1734	415	72	
10LM 250/04DR20D		2799	1165	1634	385	87	
10LM 250/04DR10D		3019	1165	1854	444	87	
10LM 250/04D		3275	1165	2110	700	87	
10LM 250/05DR20D		3199	1345	1854	444	103	
10LM 250/05DR10D		3455	1345	2110	700	103	
10LM 250/05D-12		12"	3625	1345	2280	775	103
10LM 250/06DR20D		10"	3509	1525	1984	480	118
10LM 250/06DR10D-12		12"	3805	1525	2280	775	118
10LM 250/06D-12	3805		1525	2280	775	118	

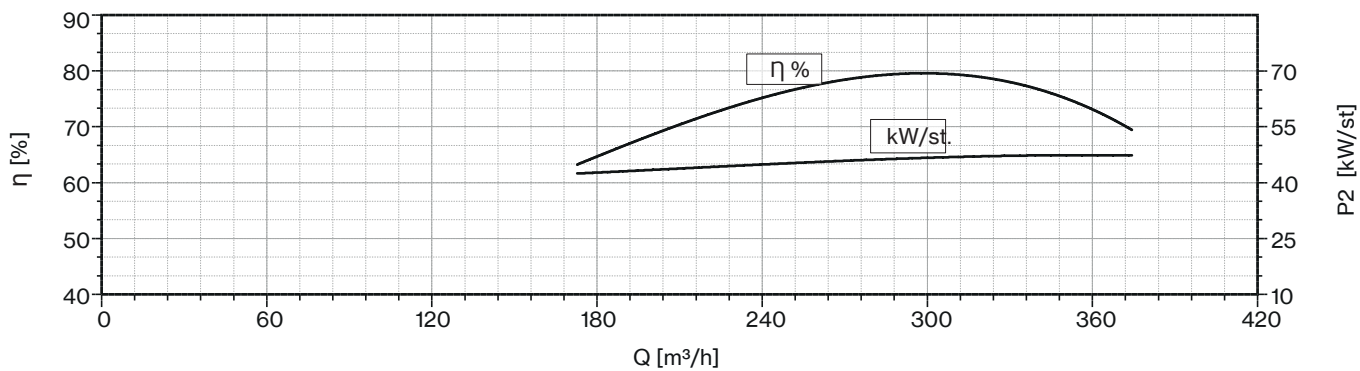
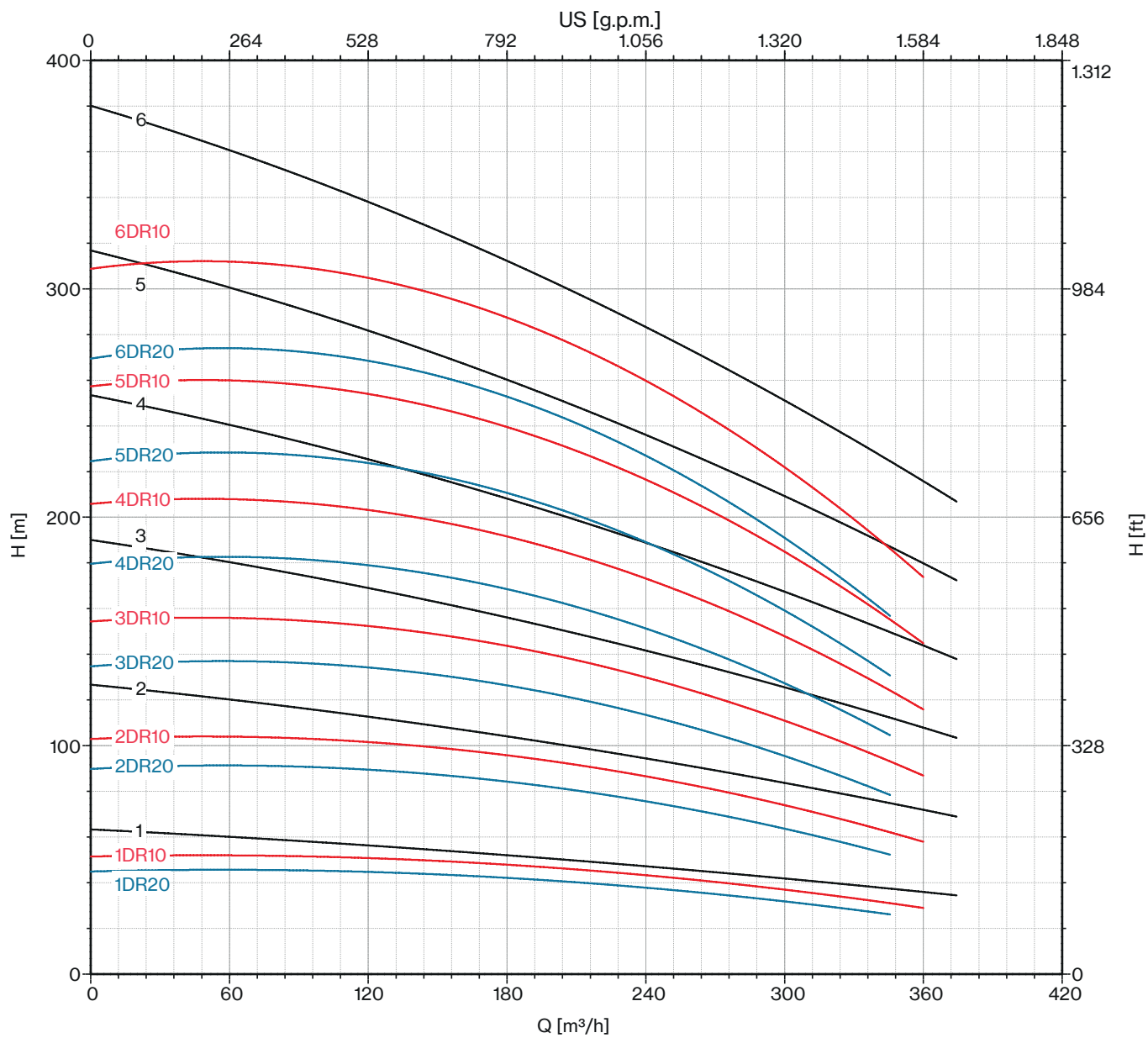


FOR COMMERCIAL TUBE  
EXTERNAL DIAMETER: 168,3 mm

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



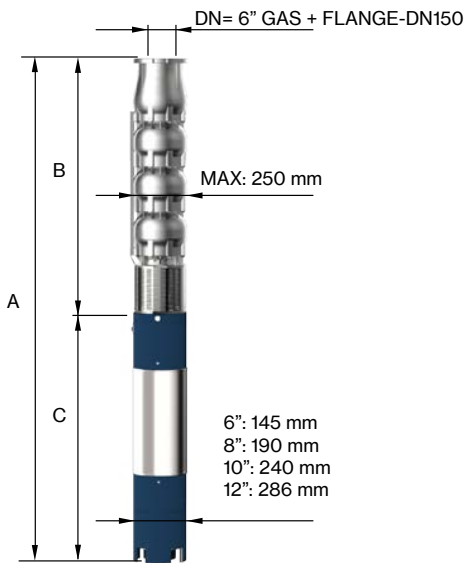
# 10LM 250



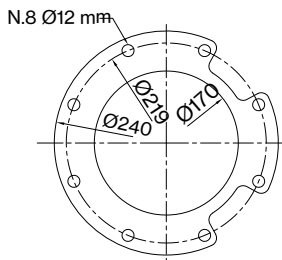
60 Hz - 3500 rpm			Q										
TYPE	P2		l/min	0	3600	4080	4560	5040	5520	6000	6480	6960	
	HP	kW	l/sec	0	60	68	76	84	92	100	108	116	
			m³/h	0	216	244,8	273,5	302,3	331,1	359,9	388,7	417,5	
10LM 275/01DR20	60	45	H (m)	52	41	40	38	36	33	31	28	23	
10LM 275/01DR10	75	55		59	48	47	44	42	39	37	35	30	30
10LM 275/01	90	66		65	54	53	50	48	46	43	41	36	36
10LM 275/02DR20	125	92		104	83	80	75	71	66	61	56	47	47
10LM 275/02DR10D	150	110		118	96	93	89	85	79	74	69	60	60
10LM 275/02D	175	130		130	108	105	101	97	91	86	81	72	72
10LM 275/03DR20D	175	130		156	124	120	113	107	98	92	84	70	70
10LM 275/03DR10D	200	150		176	144	140	133	127	118	111	104	90	90
10LM 275/03D	250	185		194	162	158	151	145	137	130	122	108	108
10LM 275/04DR20D	250	185		209	166	160	151	143	131	122	112	93	93
10LM 275/04DR10D	300	220		235	192	187	177	169	158	149	138	120	120
10LM 275/04D	340	250		259	217	211	202	194	182	173	162	144	144
10LM 275/05DR20D	300	220		261	207	200	189	179	164	153	140	117	117
10LM 275/05DR10D	340	250		294	240	233	222	212	197	186	173	150	150
10LM 275/05D	400	300		324	271	264	252	242	228	216	203	180	180
10LM 275/06DR20D	400	300		313	249	240	226	214	197	183	168	140	140
10LM 275/06DR10D	400	300	353	289	280	266	254	237	223	207	180	180	
10LM 275/06D	500	370	389	325	316	302	290	273	259	244	216	216	

Max Eff. % DR20 =	76,5
Max Eff. % DR10 =	77,2
Max Eff. % =	76,1
Max kW / St. DR20 =	57,1
Max kW / St. DR10 =	50,2
Max kW / St. =	43,3

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
10LM 275/01DR20-8	8" NEMA	1748	625	1123	178	41
10LM 275/01DR10-8		1858	625	1233	200	41
10LM 275/01-8		1928	625	1303	214	41
10LM 275/02DR20-8		2388	805	1583	270	56
10LM 275/02DR10D-8		2538	805	1733	300	56
10LM 275/02D		2439	805	1634	385	56
10LM 275/03DR20D	10"	2619	985	1634	385	72
10LM 275/03DR10D		2719	985	1734	415	72
10LM 275/03D		2969	985	1984	480	72
10LM 275/04DR20D	12"	3149	1165	1984	480	87
10LM 275/04DR10D-12		3275	1165	2110	700	87
10LM 275/04D-12		3445	1165	2280	775	87
10LM 275/05DR20D-12	12"	3455	1345	2110	700	103
10LM 275/05DR10D-12		3625	1345	2280	775	103
10LM 275/05D-14	14"	3625	1345	2280	775	103
10LM 275/06DR20D-14		3805	1525	2280	775	118
10LM 275/06DR10D-14		3805	1525	2280	775	118
10LM 275/06D-14		3845	1525	2320	1010	118

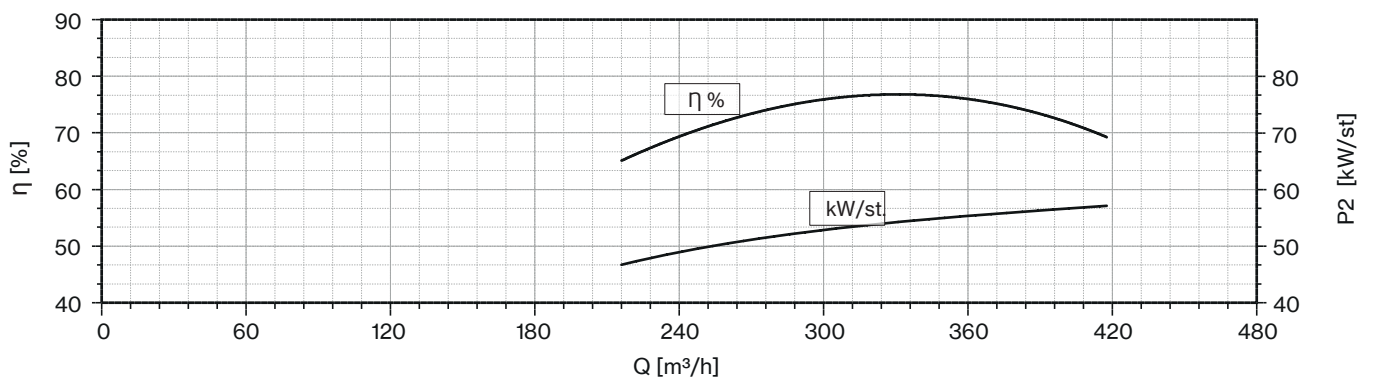
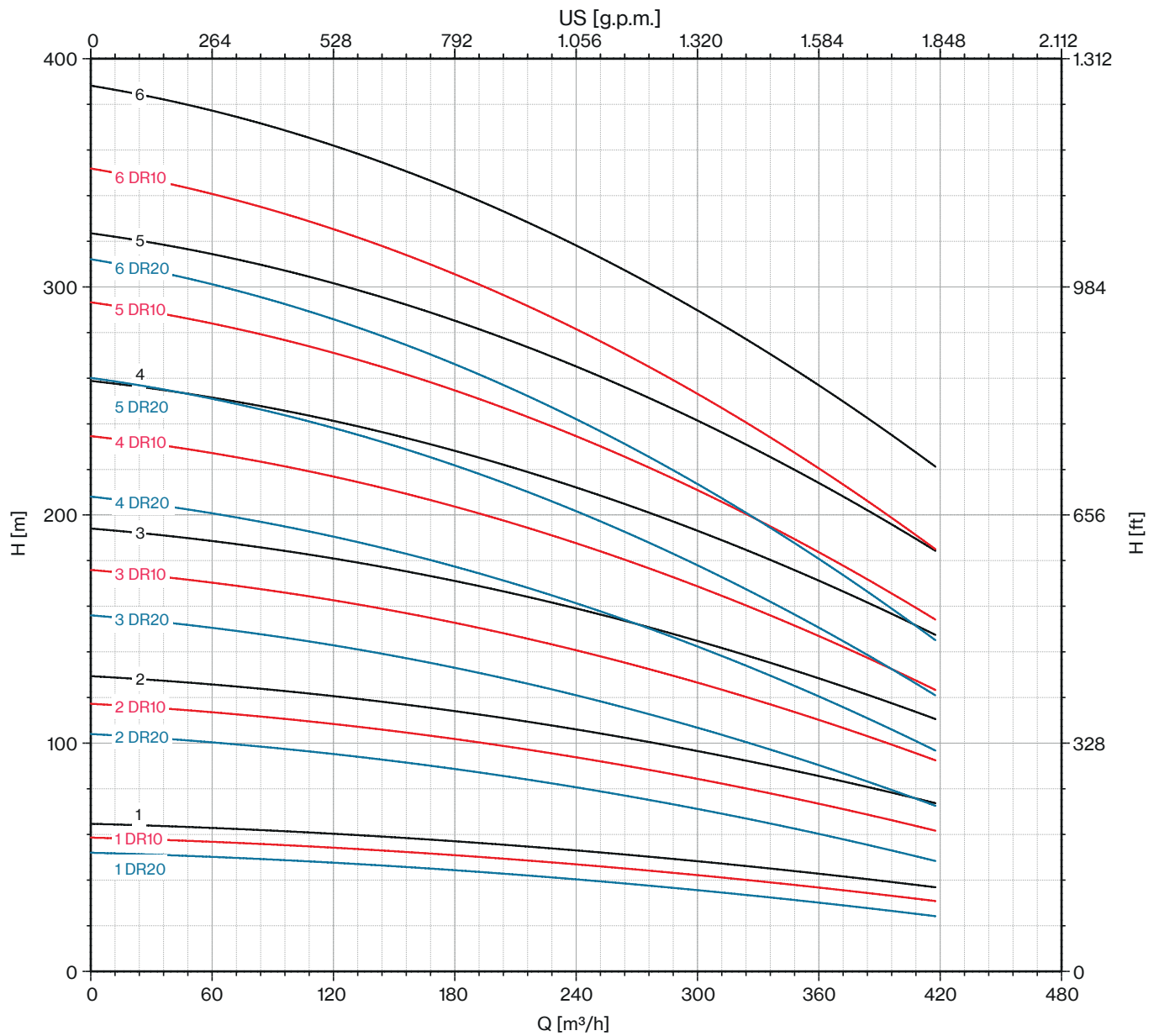


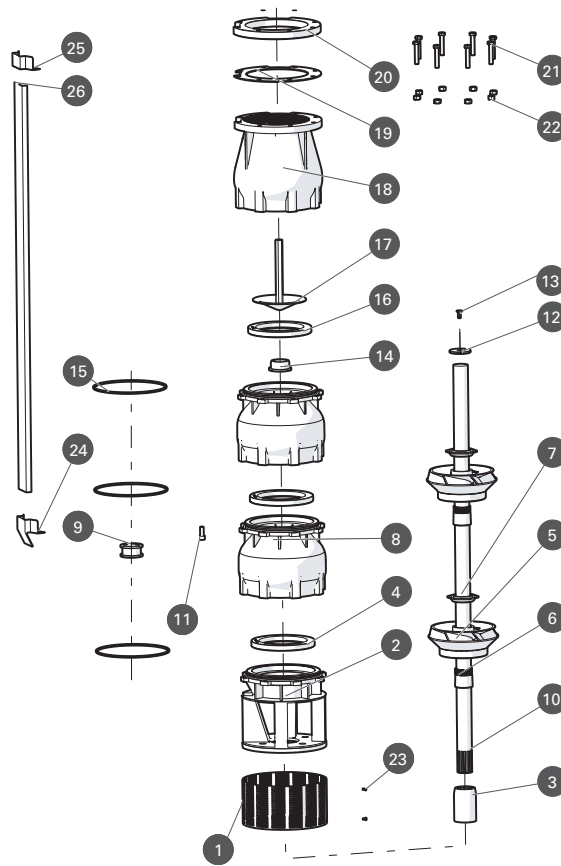
FOR COMMERCIAL TUBE  
EXTERNAL DIAMETER: 168,3 mm

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



# 10LM 275





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

\* Recommended spare parts quantity

