

8LRH & 8LM lines

Deepwell Borehole

Submersible Multistage Centrifugal Pumps for 8" Wells.
 The 8LRH line is a radial type execution, while the 8LM one is a semi-axial type.
 These pumps feature a check valve integrated into the delivery outlet. The pump motor bracket and coupling are manufactured in compliance with NEMA standards. All components are constructed from stainless steel using lost wax microfusion technology. The standard material is AISI 304 stainless steel. Alternatively, the following materials are available upon request: AISI 316 stainless steel and Duplex steel (EN 1.4462).
 The bushing bearings and wear rings are made from sand abrasion-resistant rubber, while the reverse-thrust ring is made of PTFE/Graphite.
 These pumps are suitable for a wide range of applications, including civil and agricultural uses.

General operating data:

- Capacity up to 230 m³/h
- Pressure up to 735 m
- Hydraulic efficiency 8", up to 78,5%
- Powers up to 150 kW
- Rotation speed 3.600 rpm
- Maximum depth: 350 m
- Maximum quantity of sand: 100 gr/m³
- Drinking water compatibility according to DM174 MEI >= 0,4 (EU directive No.547/2012)
- Performance tolerance: ISO9906-3B

Construction features

Suction and delivery outlet	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Valve	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Impellers and diffusers	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Upper bushings	NBR rubber
Shaft pump side	stainless steel AISI 304 (LRHS-LMS) stainless steel AISI 316 (LRHX-LMX) Duplex EN 1.4462 (LRHD-LMD)
Quantity of sand in the water	max 100 gr/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



8LRH line



8LM line

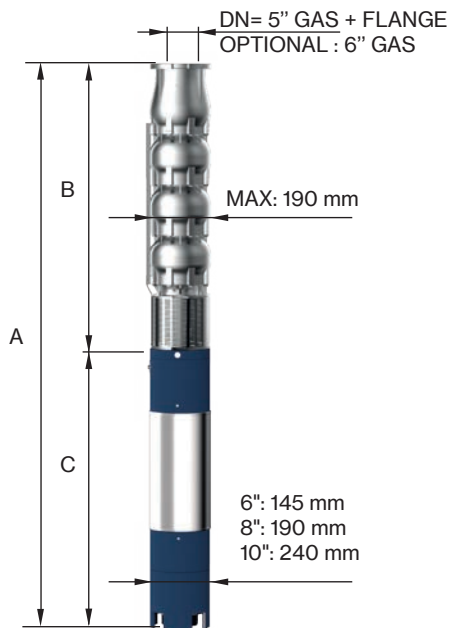


8LM 80

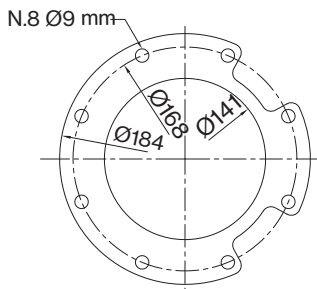
60 Hz - 3500 rpm			Q							
TYPE	P2		l/min	0	720	960	1200	1440	1680	1920
			l/sec	0	12	16	20	24	28	32
	HP	kW	m ³ /h	0	43,2	57,6	72	86,4	100,8	115,2
8LM 80/01	15	11	H (m)	39	35	34	31	29	25	21
8LM 80/02	30	22		78	70	67	63	58	50	43
8LM 80/03	40	30		117	105	101	94	86	76	64
8LM 80/04	60	45		156	140	134	126	115	101	85
8LM 80/05	75	55		194	175	168	157	144	126	107
8LM 80/06	90	66		233	210	201	188	173	151	128
8LM 80/07	100	75		272	245	235	220	202	176	149
8LM 80/08	125	92		311	280	268	251	230	202	170
8LM 80/09	125	92		350	315	302	283	259	227	192
8LM 80/10 D	150	110		389	350	336	314	288	252	213
8LM 80/11 D	150	110		428	385	369	345	317	277	234
8LM 80/12 D	175	130		467	420	403	377	346	302	256
8LM 80/13 D	175	130		505	455	436	408	374	328	277

Max Eff. % =	74
Max kW / St. =	9,95

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

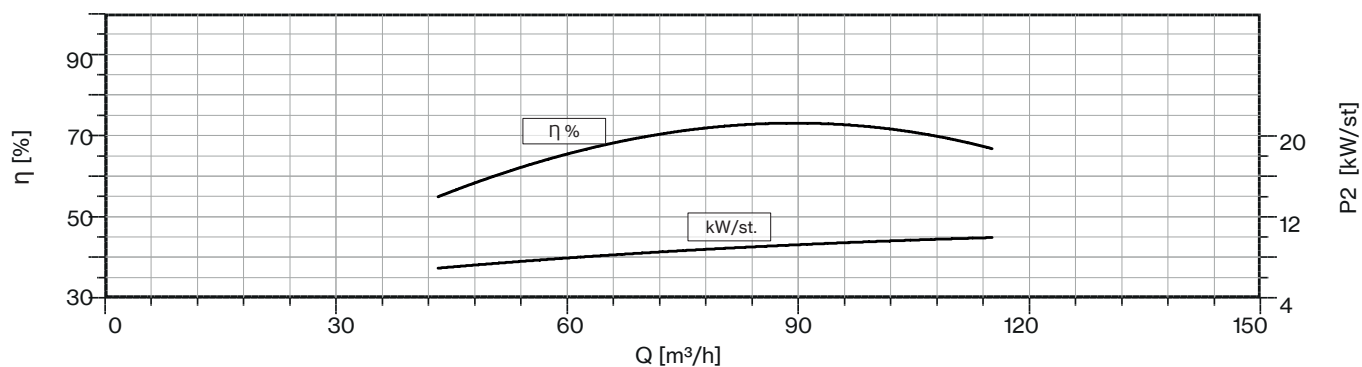
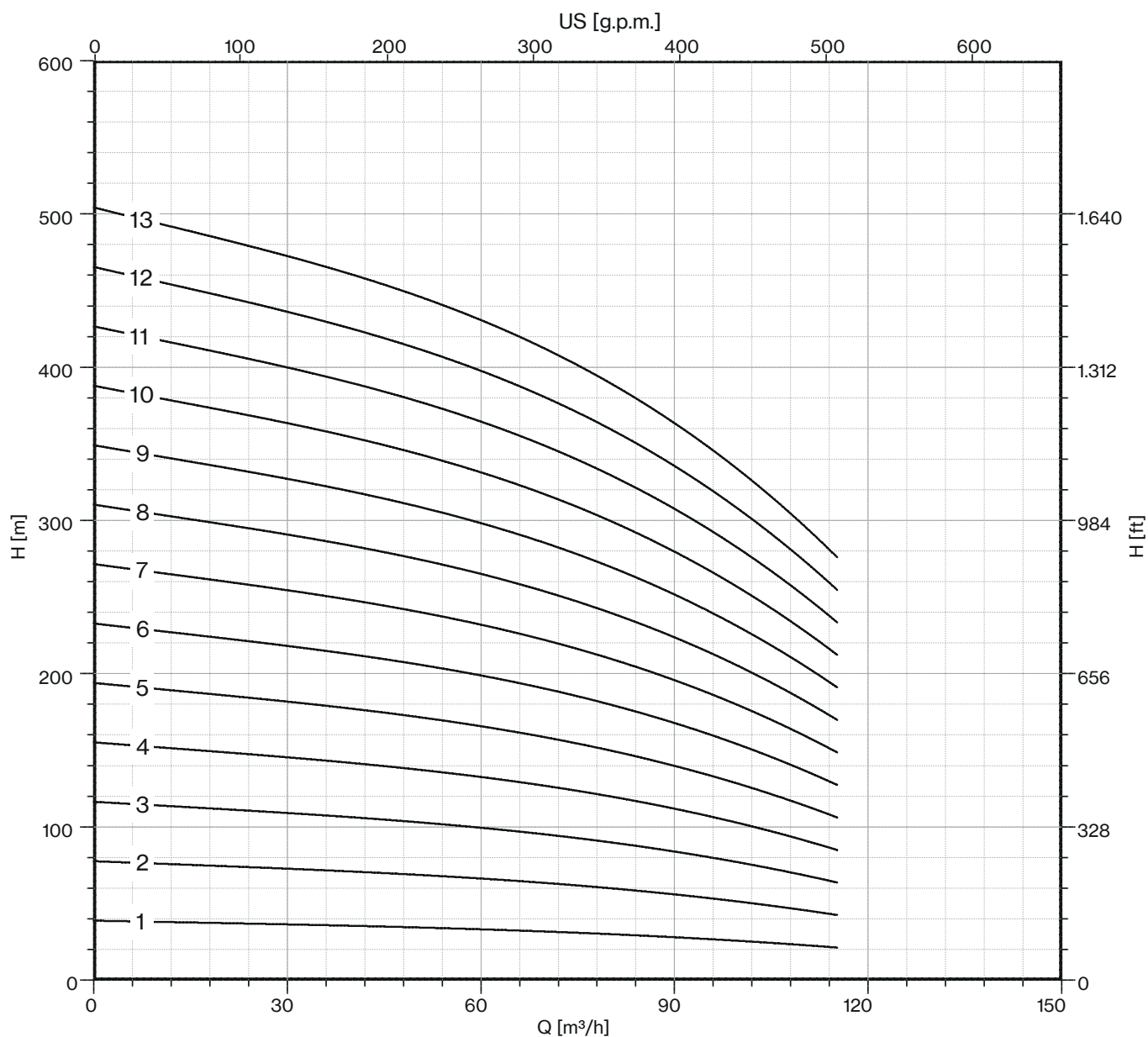


TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 80/01-6	6" NEMA	1336	525	811	65	19
8LM 80/02-6		1721	650	1071	92	26
8LM 80/03-6		2026	775	1251	108	32
8LM 80/04	8" NEMA	2023	900	1123	178	39
8LM 80/05		2258	1025	1233	200	45
8LM 80/06		2453	1150	1303	214	52
8LM 80/07		2658	1275	1383	230	58
8LM 80/08		2983	1400	1583	270	65
8LM 80/09	10"	3108	1525	1583	270	71
8LM 80/10 D		3383	1650	1733	300	78
8LM 80/11 D		3508	1775	1733	300	84
8LM 80/12 D-10		3534	1900	1634	385	91
8LM 80/13 D-10		3659	2025	1634	385	97



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm



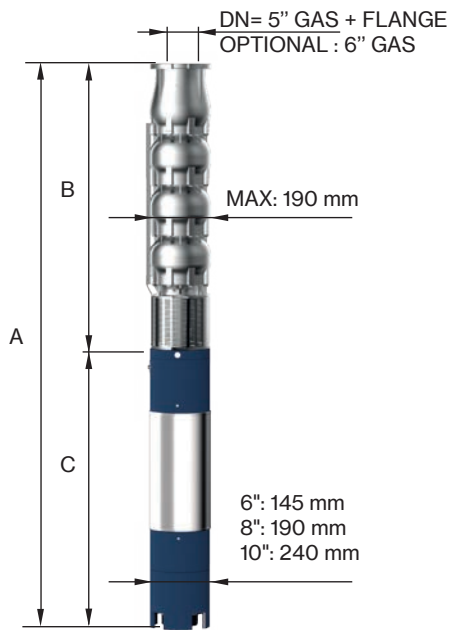


8LM 92

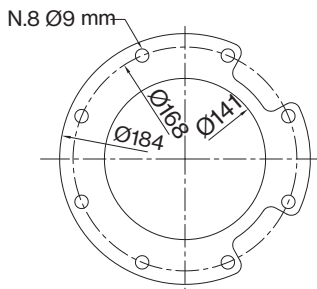
60 Hz - 3500 rpm			Q								
TYPE	P2		l/min	0	960	1200	1440	1680	1920	2160	2400
	HP	kW	l/sec	0	16	20	24	28	32	36	40
			m ³ /h	0	57,6	72	86,4	100,8	115,2	129,6	144
8LM 92/01	15	11	H (m)	39	35	34	31	29	26	22	18
8LM 92/02	30	22		78	70	67	63	58	52	45	36
8LM 92/03	50	37		117	105	101	94	87	77	67	54
8LM 92/04	60	45		156	140	134	126	116	103	89	73
8LM 92/05	75	55		194	175	168	157	145	129	112	91
8LM 92/06	90	66		233	210	201	188	174	155	134	109
8LM 92/07	125	92		272	245	235	220	203	180	156	127
8LM 92/08	125	92		311	280	268	251	232	206	179	145
8LM 92/09D	150	110		350	315	302	283	260	232	201	163
8LM 92/10D	150	110		389	350	336	314	289	258	223	181
8LM 92/11D	175	130		428	385	369	345	318	284	246	200
8LM 92/12D	200	150		467	420	403	377	347	309	268	218
8LM 92/13D	200	150		505	455	436	408	376	335	290	236

Max Eff. % =	75
Max kW / St. =	11,2

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	2,9	3,9	7,8

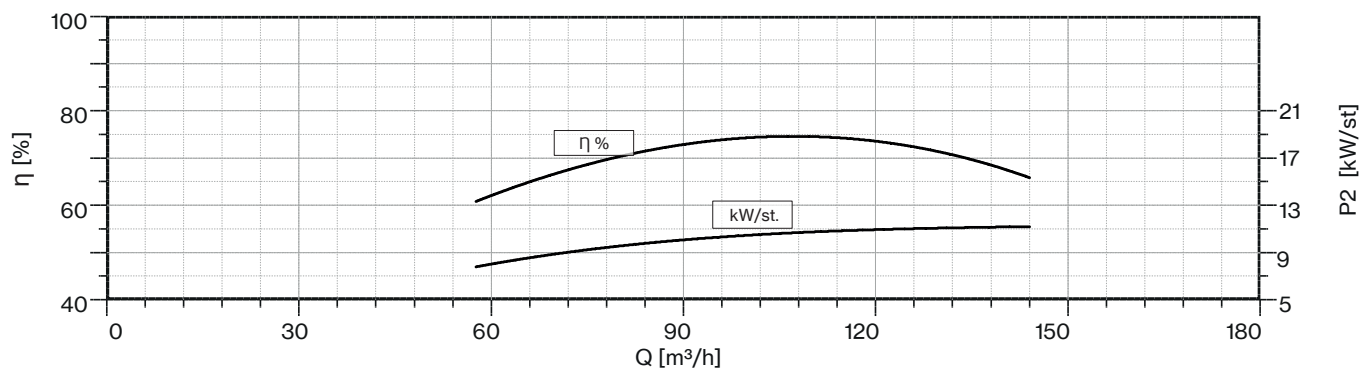
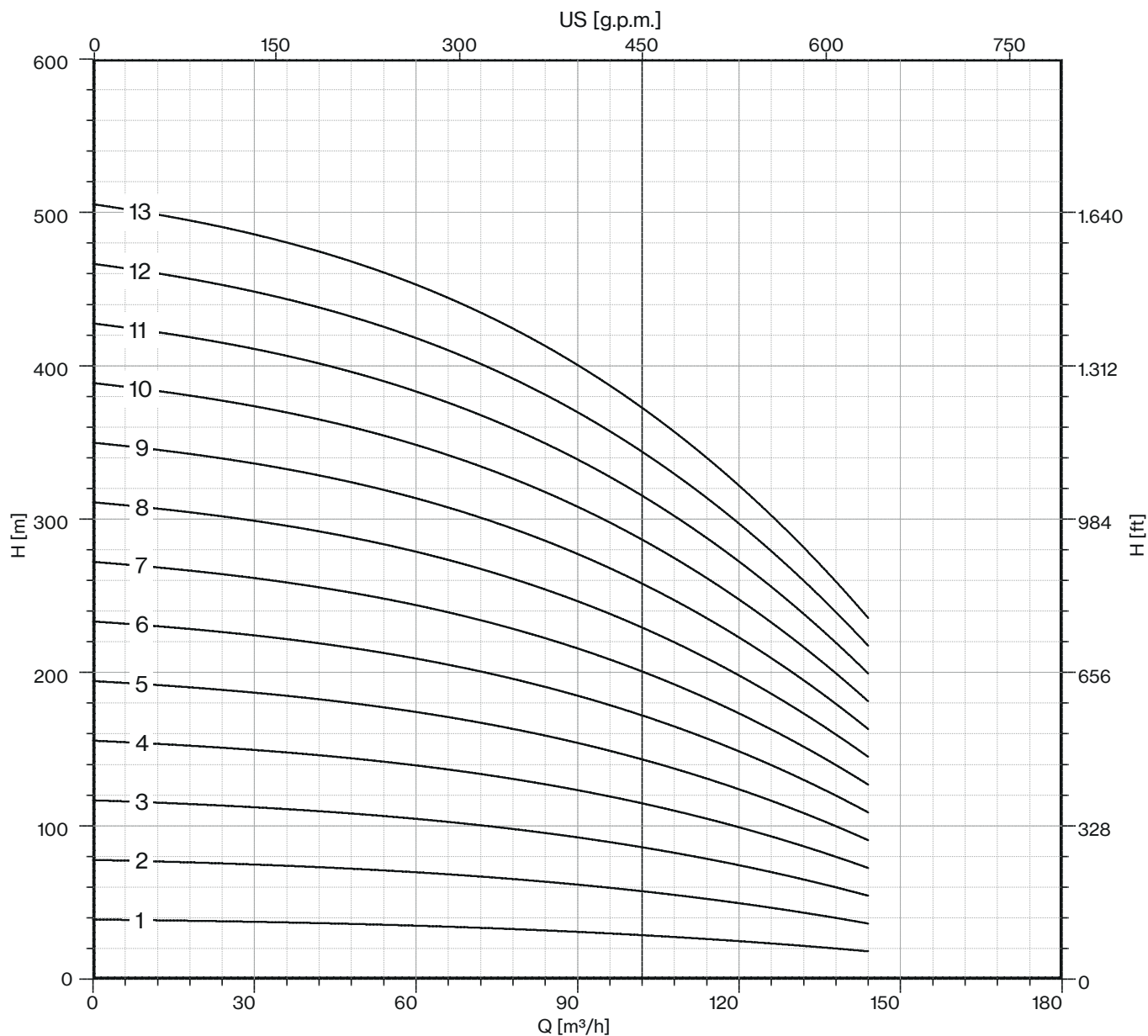


TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 92/01-6	6" NEMA	1336	525	811	65	19
8LM 92/02-6		1721	650	1071	92	26
8LM 92/03-6		2116	775	1341	118	32
8LM 92/04	8" NEMA	2023	900	1123	178	39
8LM 92/05		2258	1025	1233	200	45
8LM 92/06		2453	1150	1303	214	52
8LM 92/07		2858	1275	1583	270	58
8LM 92/08		2983	1400	1583	270	65
8LM 92/09D	10"	3258	1525	1733	300	71
8LM 92/10D		3383	1650	1733	300	78
8LM 92/11D-10		3409	1775	1634	385	84
8LM 92/12D-10		3634	1900	1734	415	91
8LM 92/13D-10		3759	2025	1734	415	97



FOR COMMERCIAL TUBE
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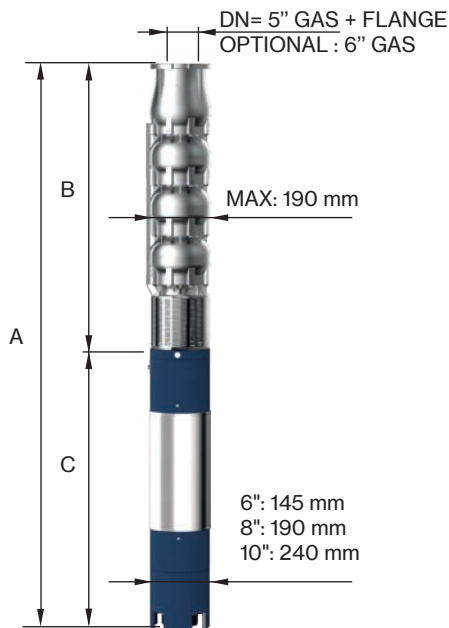


8LM 110

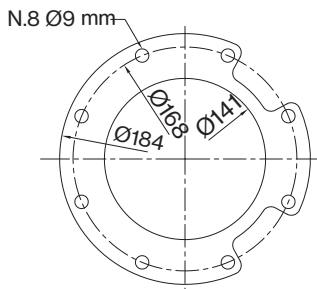
60 Hz - 3500 rpm			Q									
TYPE	P2		l/min	0	1200	1440	1680	1920	2160	2400	2640	2880
	HP	kW	l/sec	0	20	24	28	32	36	40	44	48
			m³/h	0	72	86,4	100,8	115,2	129,6	144	158,4	172,8
8LM 110/01	17,5	13	H (m)	40	32	31	30	29	28	25	22	18
8LM 110/02	35	26		79	65	63	61	59	55	50	44	37
8LM 110/03	50	37		119	97	94	91	88	83	75	67	55
8LM 110/04	75	55		158	130	126	122	118	110	100	89	74
8LM 110/05	90	66		198	162	157	152	147	138	125	111	92
8LM 110/06	100	75		238	194	188	182	176	165	149	133	111
8LM 110/07	125	92		277	227	220	213	206	193	174	155	129
8LM 110/08D	150	110		317	259	251	243	235	220	199	177	147
8LM 110/09D	150	110		356	292	283	273	264	248	224	200	166
8LM 110/10D	175	130		396	324	314	304	294	275	249	222	184
8LM 110/11D	200	150		436	356	345	334	323	303	274	244	203
8LM 110/12D	200	150		475	389	377	365	353	330	299	266	221

Max Eff. % =	77
Max kW / St. =	12,5

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	2,9	3,9	7,8

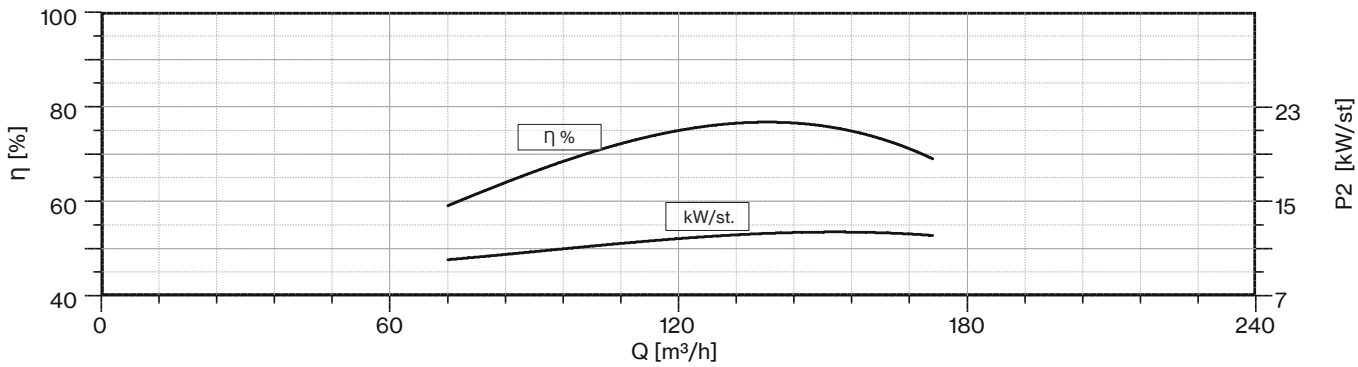
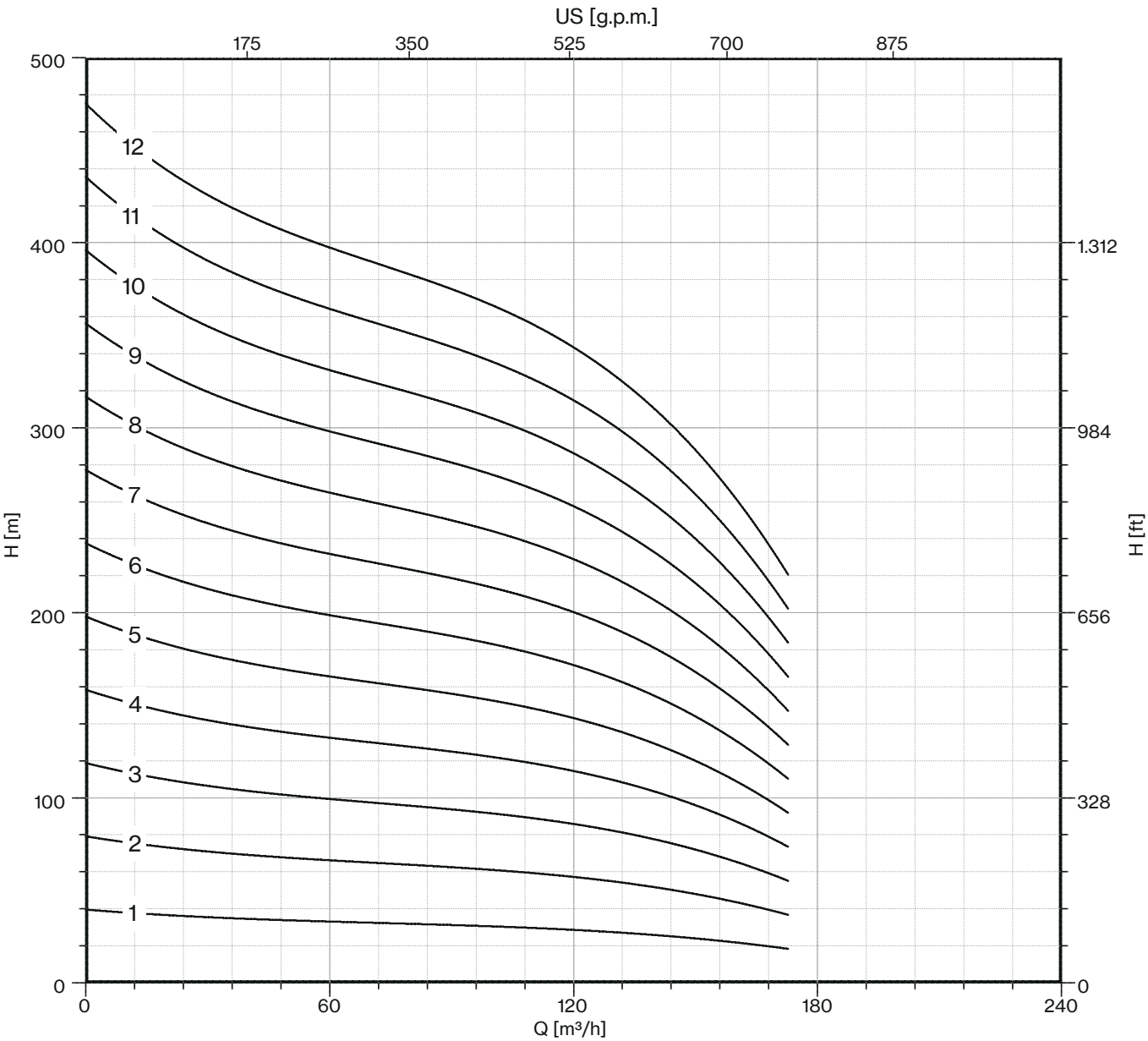


TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 110/01	6" NEMA	1366	525	841	70	19
8LM 110/02		1831	650	1181	100	26
8LM 110/03		2116	775	1341	118	33
8LM 110/04	8" NEMA	2133	900	1233	200	40
8LM 110/05		2328	1025	1303	214	47
8LM 110/06		2533	1150	1383	230	53
8LM 110/07		2858	1275	1583	270	60
8LM 110/08D		3133	1400	1733	300	67
8LM 110/09D	10"	3258	1525	1733	300	74
8LM 110/10D		3284	1650	1634	385	81
8LM 110/11D		3509	1775	1734	415	87
8LM 110/12D		3634	1900	1734	415	94



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm



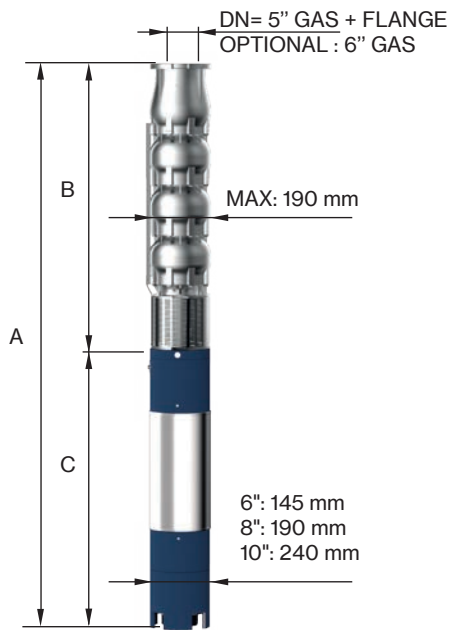


8LM 130

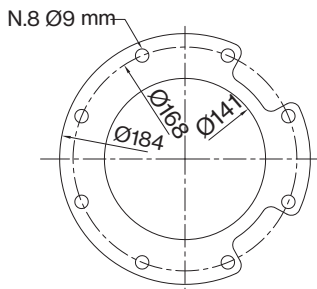
60 Hz - 3500 rpm			Q										
TYPE	P2		l/min	0	1433	1683	1917	2167	2400	2633	2883	3117	3367
	HP	kW	l/sec	0	23,9	28,1	31,9	36,1	40,0	43,9	48,1	51,9	56,1
			m³/h	0	86	101	115	130	144	158	173	187	202
8LM 130/01	20	15	H (m)	39	32	31	30	29	27	26	24	21	17
8LM 130/02	40	30		78	65	62	60	57	55	52	47	42	35
8LM 130/03	60	45		117	97	93	89	86	82	78	71	63	52
8LM 130/04	90	66		156	130	124	119	114	109	104	94	84	69
8LM 130/05	100	75		194	162	155	149	143	137	130	118	104	86
8LM 130/06	125	92		233	194	186	179	171	164	156	142	125	104
8LM 130/07D	150	110		272	227	217	209	200	192	181	165	146	121
8LM 130/08D	175	130		311	259	248	238	228	219	207	189	167	138
8LM 130/09D	175	130		350	292	279	268	257	246	233	213	188	156
8LM 130/10D	200	150		389	324	310	298	285	274	259	236	209	173

Max Eff. % =	78
Max kW / St. =	14,5

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	2,5	3	3,5	8,7



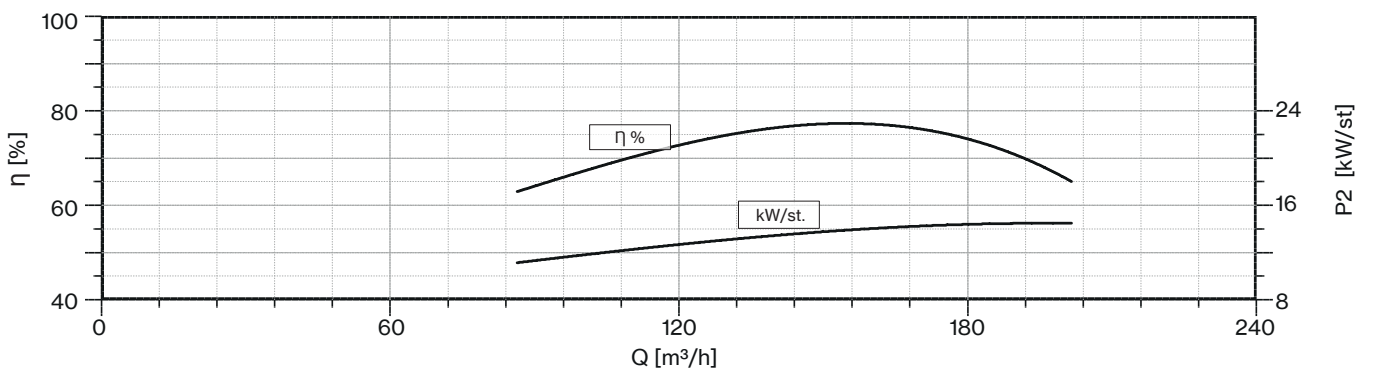
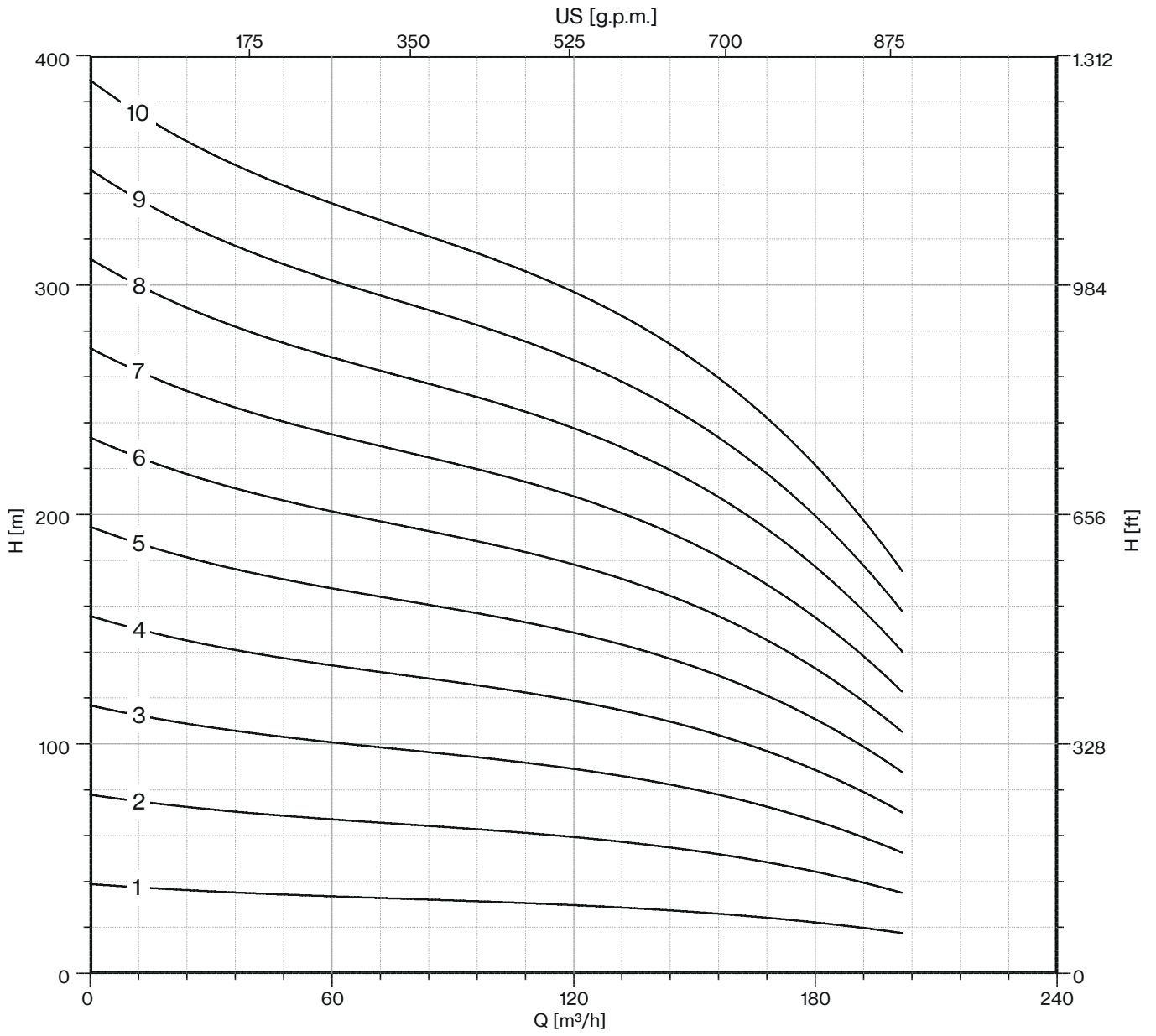
TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 130/01-6	6" NEMA	1456	525	931	75	20
8LM 130/02-6		1901	650	1251	108	27
8LM 130/03	8" NEMA	1898	775	1123	178	34
8LM 130/04		2203	900	1303	214	41
8LM 130/05		2408	1025	1383	230	48
8LM 130/06		2733	1150	1583	270	55
8LM 130/07D	10"	3008	1275	1733	300	62
8LM 130/08D-10		3034	1400	1634	385	69
8LM 130/09D-10		3159	1525	1634	385	76
8LM 130/10D-10		3384	1650	1734	415	83



FOR COMMERCIAL TUBE
EXTERNAL DIAMETER: 139,7 mm

"D" Pump shaft in Duplex EN 1.4462



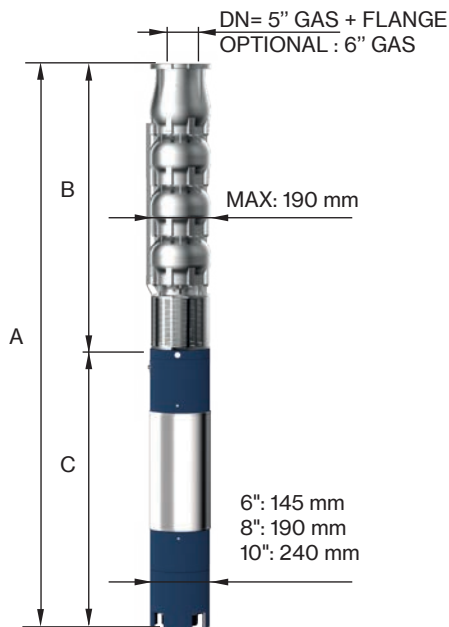


8LM 160

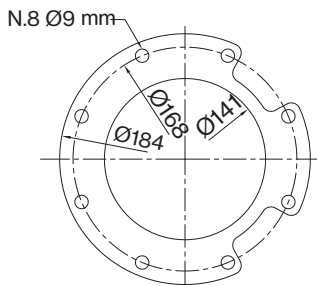
60 Hz - 3500 rpm			Q										
TYPE	P2		l/min	0	1920	2160	2400	2640	2880	3120	3360	3600	3840
	HP	kW	l/sec	0	32	36	40	44	48	52	56	60	64
			m ³ /h	0	115,2	129,6	144	158,4	172,8	187,2	201,6	216	230,4
8LM 160/01	25	18,5	H (m)	36	29	28	27	26	25	24	22	20	17
8LM 160/02	50	37		72	58	56	54	52	50	48	45	40	35
8LM 160/03	75	55		108	86	83	81	78	75	72	67	60	52
8LM 160/04	90	66		144	115	111	108	104	100	96	89	79	69
8LM 160/05	125	92		180	144	139	135	130	125	120	112	99	86
8LM 160/06D	150	110		216	173	167	162	156	150	143	134	119	104
8LM 160/07D	175	130		252	202	195	190	182	175	167	156	139	121
8LM 160/08D	175	130		288	230	222	217	209	200	191	179	159	138
8LM 160/09D	200	150		324	259	250	244	235	226	215	201	179	156

Max Eff. % =	78,5
Max kW / St. =	9,3

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	4	4,5	7	13

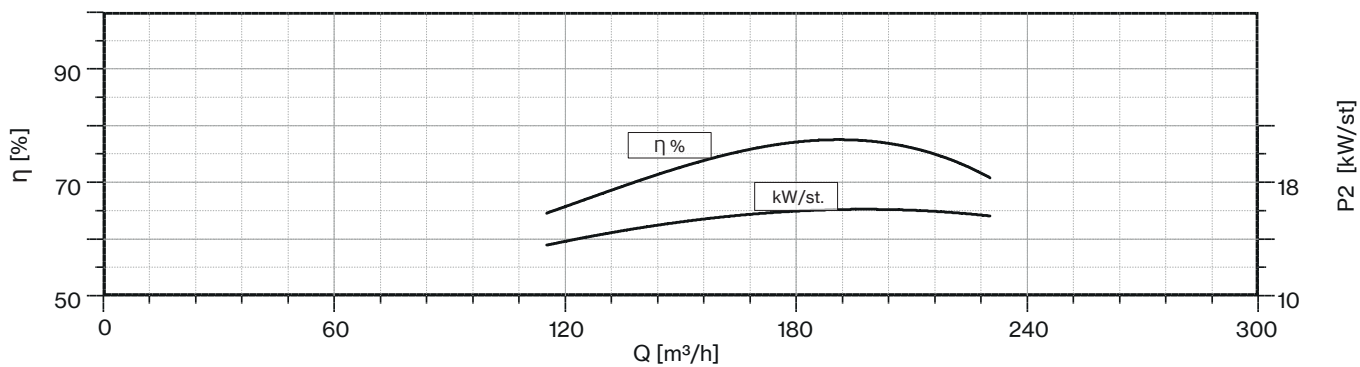
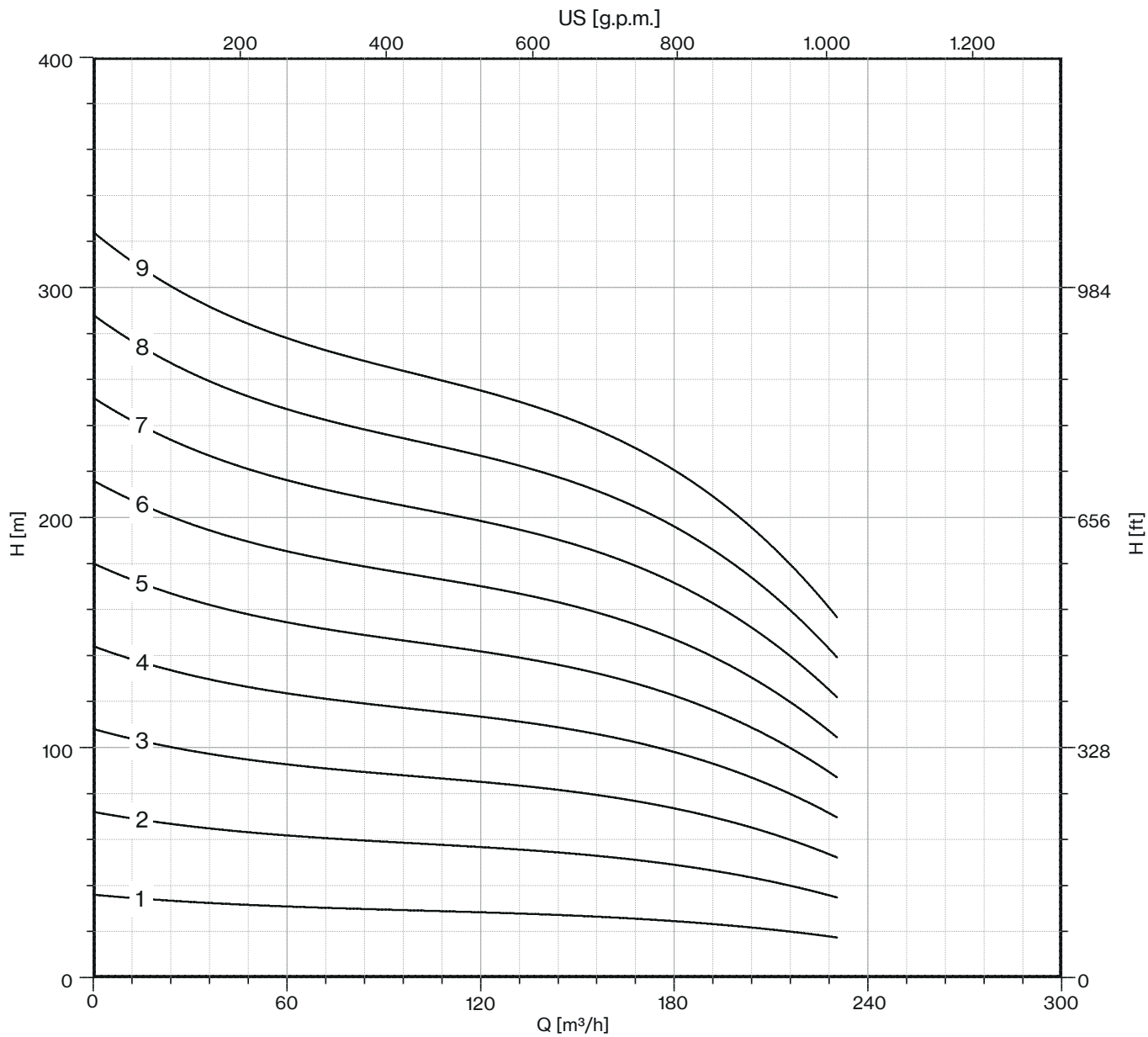


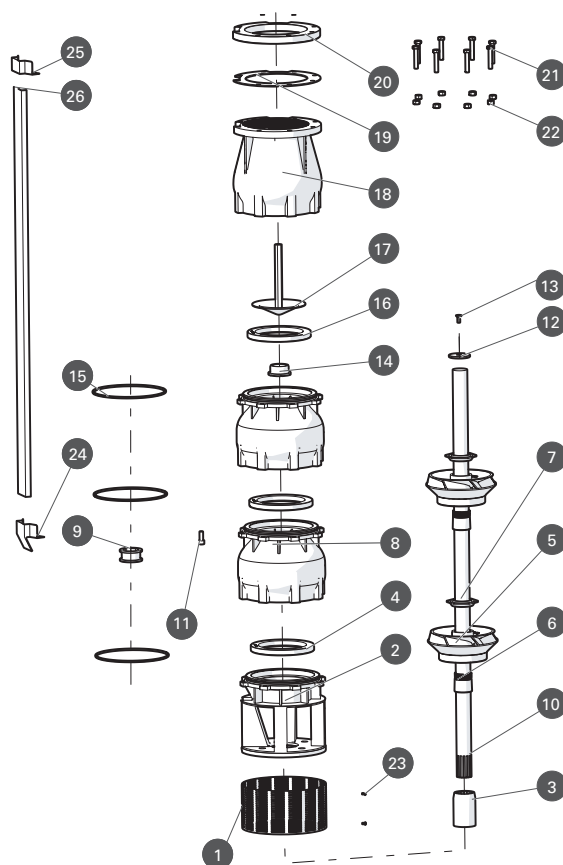
TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LM 160/01-6	6" NEMA	1541	550	991	83	20
8LM 160/02-6		2041	700	1341	118	28
8LM 160/03	8" NEMA	2083	850	1233	200	35
8LM 160/04		2303	1000	1303	214	43
8LM 160/05		2733	1150	1583	270	50
8LM 160/06D	10"	3033	1300	1733	300	58
8LM 160/07D-10		3084	1450	1634	385	65
8LM 160/08D-10		3234	1600	1634	385	73
8LM 160/09D-10		3484	1750	1734	415	80



FOR COMMERCIAL TUBE
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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	DIFFUSEUR	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

