

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

## Construction features

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



8LRH line



8LM line

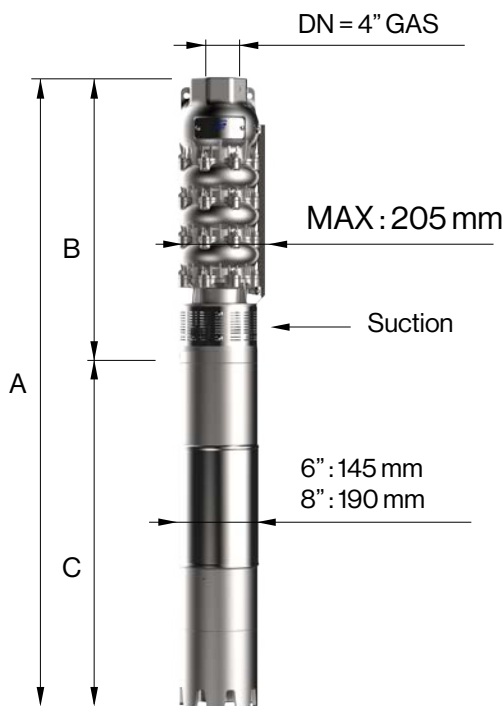


# 8LRH 34

60 Hz - 3500 rpm			Q							
TYPE	P2		l/min	0	240	360	480	600	720	840
			l/sec	0,0	4,0	6,0	8,0	10,0	12,0	14,0
	HP	kW	m <sup>3</sup> /h	0,0	14,4	21,6	28,8	36,0	43,2	50,4
8LRH 34/01	5,5	4	H (m)	33	32	30	29	27	24	20
8LRH 34/02	12,5	9,2		66	63	60	57	53	48	39
8LRH 34/03	17,5	13		99	95	91	86	80	72	59
8LRH 34/04	25	18,5		132	127	121	114	107	96	78
8LRH 34/05	30	22		166	158	151	143	133	120	98
8LRH 34/06	35	26		199	190	181	171	160	143	118
8LRH 34/07	40	30		232	222	212	200	186	167	137
8LRH 34/08	50	37		265	253	242	228	213	191	157
8LRH 34/09	50	37		298	285	272	257	240	215	176
8LRH 34/10	60	44		331	317	302	285	266	239	196
8LRH 34/11	60	44		364	348	333	314	293	263	215
8LRH 34/12	75	55		397	380	363	342	320	287	235
8LRH 34/13	75	55		431	412	393	371	346	311	255
8LRH 34/14	90	66		464	444	423	399	373	335	274
8LRH 34/15	100	75		497	475	454	428	400	359	294
8LRH 34/16	100	75		530	507	484	456	426	382	313
8LRH 34/17	100	75		563	539	514	485	453	406	333
8LRH 34/18	100	75		596	570	544	513	480	430	353
8LRH 34/19	125	92		629	602	575	542	506	454	372
8LRH 34/20	125	92		662	634	605	570	533	478	392
8LRH 34/21	125	92		696	665	635	599	559	502	411
8LRH 34/22	125	92		729	697	665	627	586	526	431

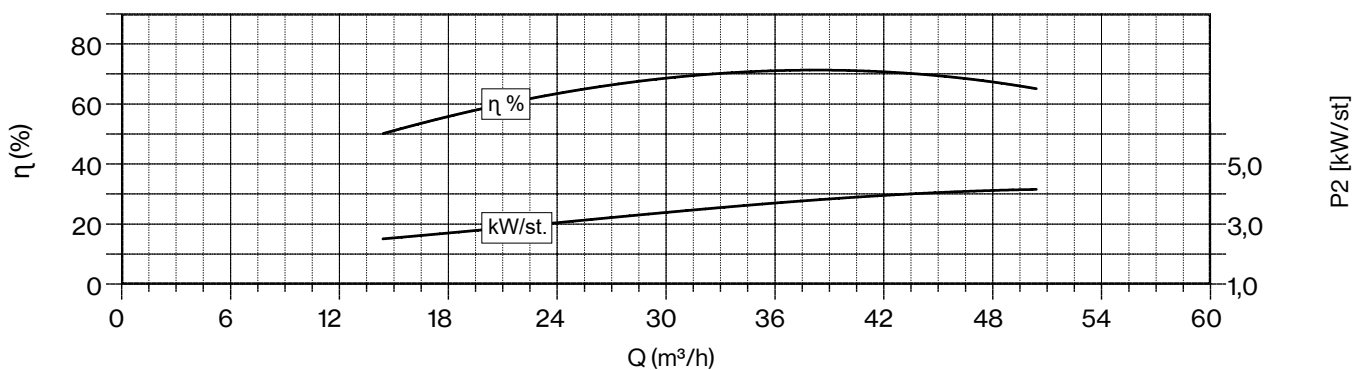
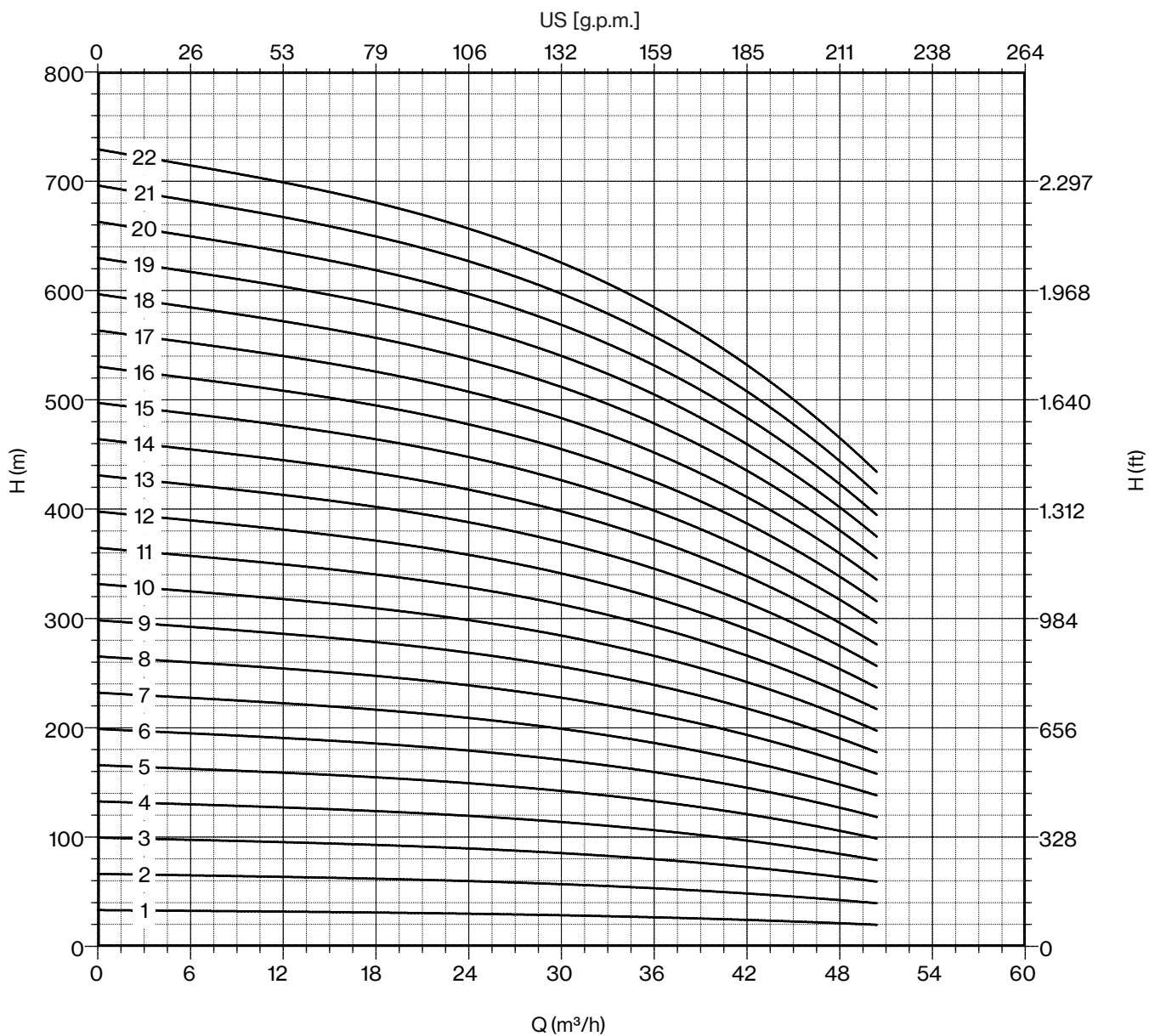
Max Eff. % =	71
Max kW / St. =	4,14

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,2	3,3	4,5	6,7



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 34/01-6	6" NEMA	1106	460	646	40	21
8LRH 34/02-6		1291	540	751	60	27
8LRH 34/03-6		1461	620	841	70	33
8LRH 34/04-6		1691	700	991	83	40
8LRH 34/05-6		1851	780	1071	92	46
8LRH 34/06-6		2041	860	1181	100	52
8LRH 34/07-6		2191	940	1251	108	58
8LRH 34/08-6		2361	1020	1341	118	64
8LRH 34/09-6		2441	1100	1341	118	70
8LRH 34/10	8" NEMA	2303	1180	1123	178	77
8LRH 34/11		2383	1260	1123	178	83
8LRH 34/12		2573	1340	1233	200	89
8LRH 34/13		2653	1420	1233	200	95
8LRH 34/14		2803	1500	1303	214	101
8LRH 34/15		2963	1580	1383	230	107
8LRH 34/16		3043	1660	1383	230	113
8LRH 34/17		3123	1740	1383	230	120
8LRH 34/18		3203	1820	1383	230	126
8LRH 34/19		3483	1900	1583	270	132
8LRH 34/20		3563	1980	1583	270	138
8LRH 34/21		3643	2060	1583	270	144
8LRH 34/22		3723	2140	1583	270	150



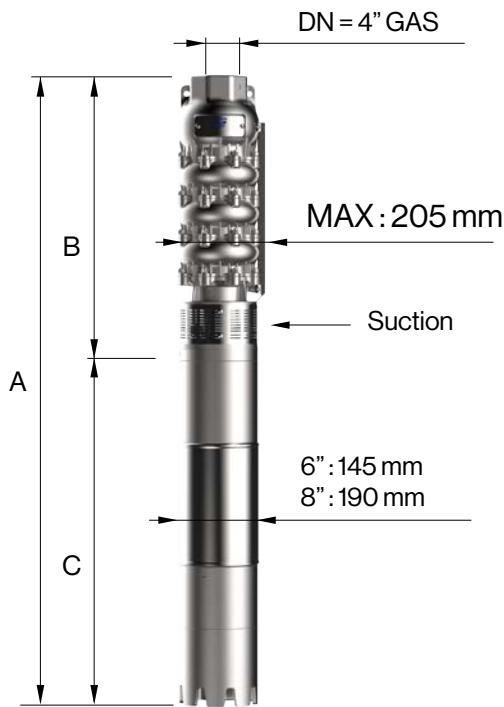


# 8LRH 42

60 Hz - 3500 rpm			Q								
TYPE	P2		l/min	0	360	480	600	720	840	960	1080
			l/sec	0,0	6,0	8,0	10,0	12,0	14,0	16,0	18,0
	HP	kW	m <sup>3</sup> /h	0,0	21,6	28,8	36,0	43,2	50,4	57,6	64,8
8LRH 42/01	7,5	5,5	H (m)	33	32	31	29	26	24	20	17
8LRH 42/02	15	11		67	63	62	58	53	47	40	33
8LRH 42/03	20	15		100	95	92	86	79	71	60	50
8LRH 42/04	30	22		134	127	123	115	106	94	81	67
8LRH 42/05	35	26		167	158	154	144	132	118	101	84
8LRH 42/06	40	30		200	190	185	173	159	142	121	100
8LRH 42/07	50	37		234	222	216	202	185	165	141	117
8LRH 42/08	60	44		267	253	247	230	212	189	161	134
8LRH 42/09	60	44		301	285	277	259	238	213	181	150
8LRH 42/10	75	55		334	317	308	288	265	236	202	167
8LRH 42/11	75	55		255	242	235	220	202	180	154	128
8LRH 42/12	90	66		401	380	370	346	318	283	242	200
8LRH 42/13	90	66		434	412	401	374	344	307	262	217
8LRH 42/14	100	75		468	444	431	403	371	331	282	234
8LRH 42/15	100	75		501	475	462	432	397	354	302	251
8LRH 42/16	125	92		535	507	493	461	424	378	323	267
8LRH 42/17	125	92		568	539	524	490	450	401	343	284
8LRH 42/18	125	92		601	570	555	518	477	425	363	301
8LRH 42/19	125	92		635	602	586	547	503	449	383	317
8LRH 42/20	150	110		668	634	616	576	530	472	403	334
8LRH 42/21	150	110		702	665	647	605	556	496	423	351
8LRH 42/22	150	110		735	697	678	634	583	520	444	367

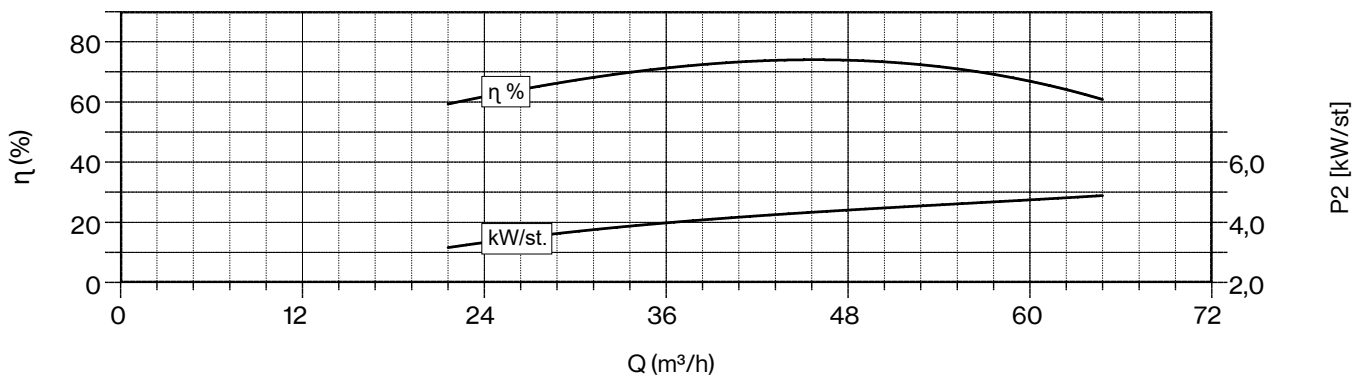
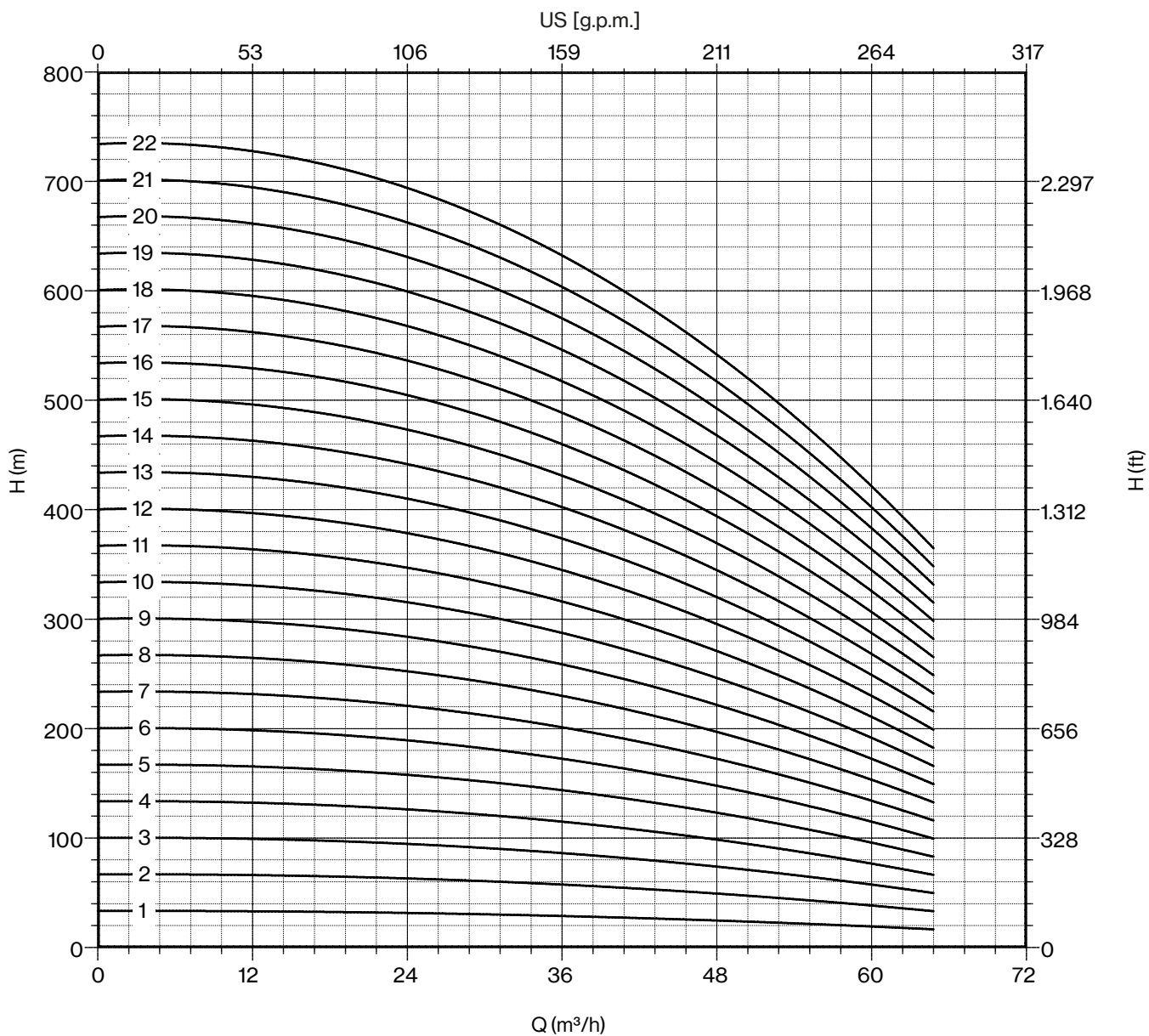
Max Eff. % =	74
Max kW / St. =	4,9

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,2	3,3	4,5	6,7



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 42/01-6	6" NEMA	1131	460	671	45	21
8LRH 42/02-6		1351	540	811	65	27
8LRH 42/03-6		1551	620	931	75	33
8LRH 42/04-6		1771	700	1071	92	40
8LRH 42/05-6		1961	780	1181	100	46
8LRH 42/06-6		2111	860	1251	108	52
8LRH 42/07-6		2281	940	1341	118	58
8LRH 42/08	8" NEMA	2143	1020	1123	178	64
8LRH 42/09		2223	1100	1123	178	70
8LRH 42/10		2413	1180	1233	200	77
8LRH 42/11		2493	1260	1233	200	83
8LRH 42/12		2643	1340	1303	214	89
8LRH 42/13		2723	1420	1303	214	95
8LRH 42/14		2883	1500	1383	230	101
8LRH 42/15		2963	1580	1383	230	107
8LRH 42/16		3243	1660	1583	270	113
8LRH 42/17		3323	1740	1583	270	120
8LRH 42/18		3403	1820	1583	270	126
8LRH 42/19		3483	1900	1583	270	132
8LRH 42/20		3713	1980	1733	300	138
8LRH 42/21		3793	2060	1733	300	144
8LRH 42/22		3873	2140	1733	300	150



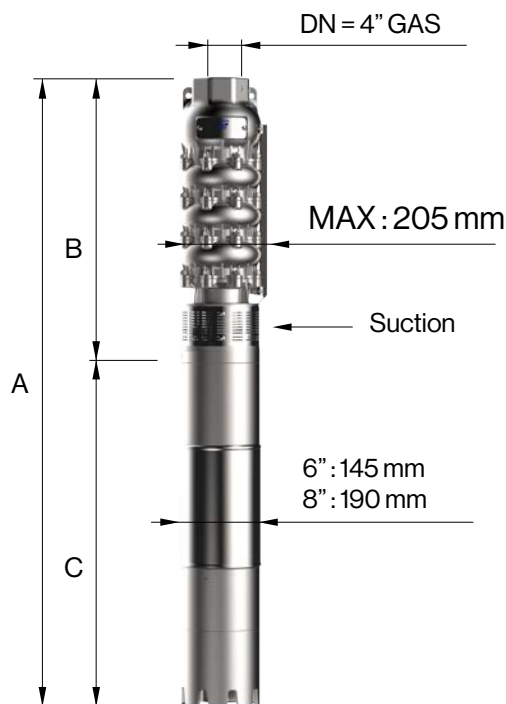


# 8LRH 52

60 Hz - 3500 rpm			Q								
TYPE	P2		l/min	0	600	720	840	960	1080	1200	1320
			l/sec	0,0	10,0	12,0	14,0	16,0	18,0	20,0	22,0
	HP	kW	m³/h	0,0	36,0	43,2	50,4	57,6	64,8	72,0	79,2
8LRH 52/01	10	7,5	H (m)	35	31	30	28	26	24	21	18
8LRH 52/02	17,5	13		69	62	59	56	52	48	43	36
8LRH 52/03	25	18,5		104	92	89	84	79	72	64	54
8LRH 52/04	35	26		138	123	119	112	105	96	85	73
8LRH 52/05	40	30		173	154	148	140	131	120	107	91
8LRH 52/06	50	37		207	185	178	168	157	143	128	109
8LRH 52/07	60	44		242	216	208	196	183	167	149	127
8LRH 52/08	75	55		276	247	237	223	210	191	170	145
8LRH 52/09	75	55		311	277	267	251	236	215	192	163
8LRH 52/10	90	66		346	308	297	279	262	239	213	181
8LRH 52/11	90	66		380	339	326	307	288	263	234	200
8LRH 52/12	100	75		415	370	356	335	314	287	256	218
8LRH 52/13	125	92		449	401	386	363	341	311	277	236
8LRH 52/14	125	92		484	431	415	391	367	335	298	254
8LRH 52/15	125	92		518	462	445	419	393	359	320	272
8LRH 52/16	150	110		553	493	475	447	419	382	341	290
8LRH 52/17	150	110		588	524	504	475	446	406	362	308
8LRH 52/18	150	110		622	555	534	503	472	430	384	327

Max Eff. % =	73
Max kW / St. =	6

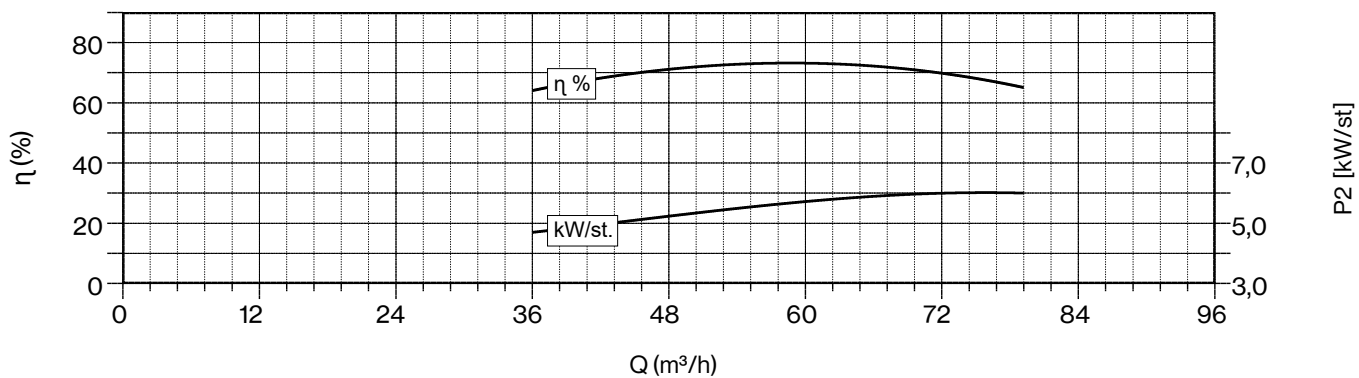
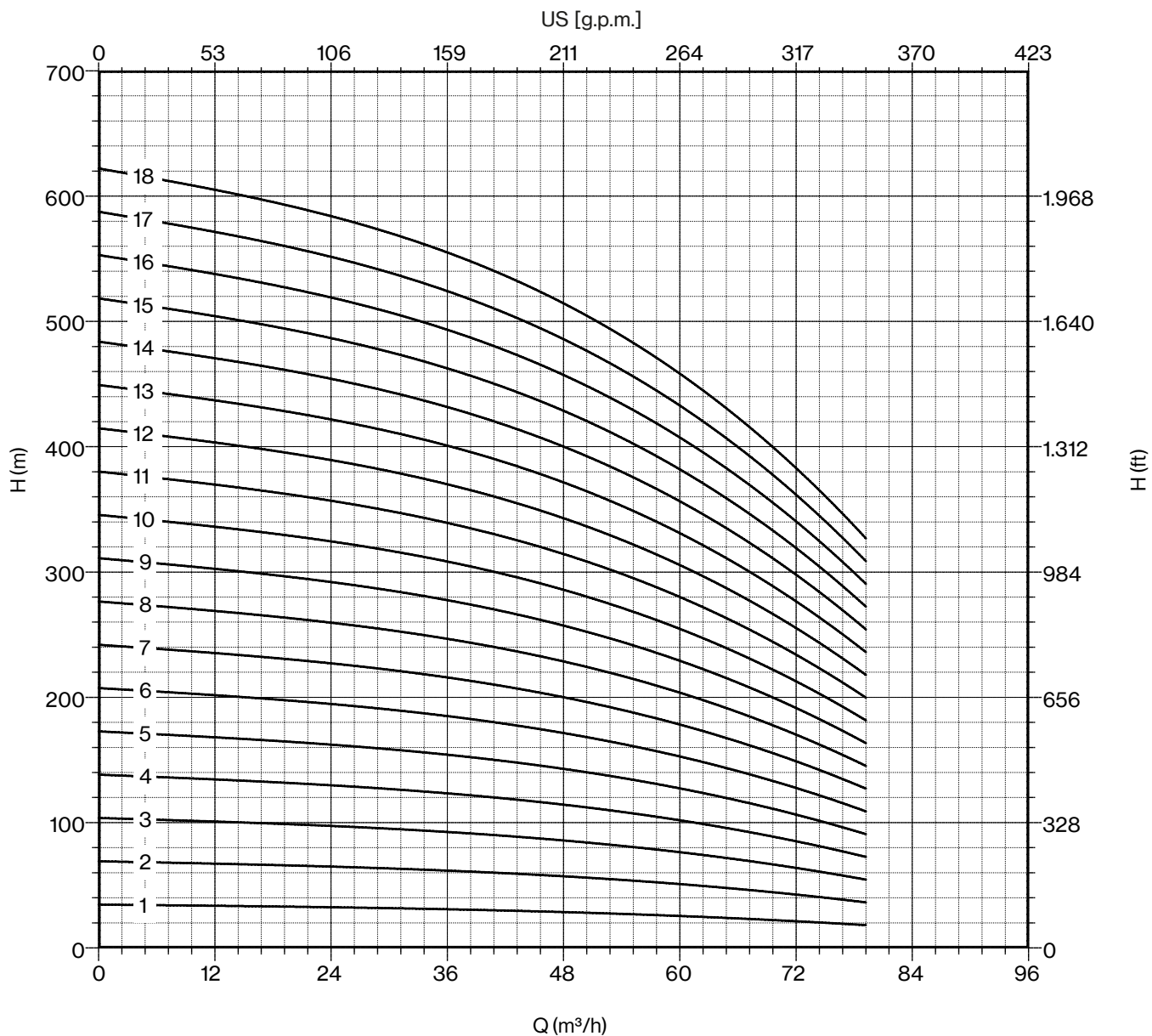
NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,5	3,5	6	8



TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 52/01-6	6" NEMA	1169	468	701	55	22
8LRH 52/02-6		1397	556	841	70	29
8LRH 52/03-6		1635	644	991	83	36
8LRH 52/04-6		1913	732	1181	100	44
8LRH 52/05-6		2071	820	1251	108	51
8LRH 52/06-6		2249	908	1341	118	58
8LRH 52/07	8" NEMA	2119	996	1123	178	65
8LRH 52/08		2317	1084	1233	200	72
8LRH 52/09		2405	1172	1233	200	79
8LRH 52/10		2563	1260	1303	214	87
8LRH 52/11		2651	1348	1303	214	94
8LRH 52/12		2819	1436	1383	230	101
8LRH 52/13		3107	1524	1583	270	108
8LRH 52/14		3195	1612	1583	270	115
8LRH 52/15		3283	1700	1583	270	122
8LRH 52/16		3521	1788	1733	300	129
8LRH 52/17		3609	1876	1733	300	137
8LRH 52/18		3697	1964	1733	300	144

\* Coupled pump shaft



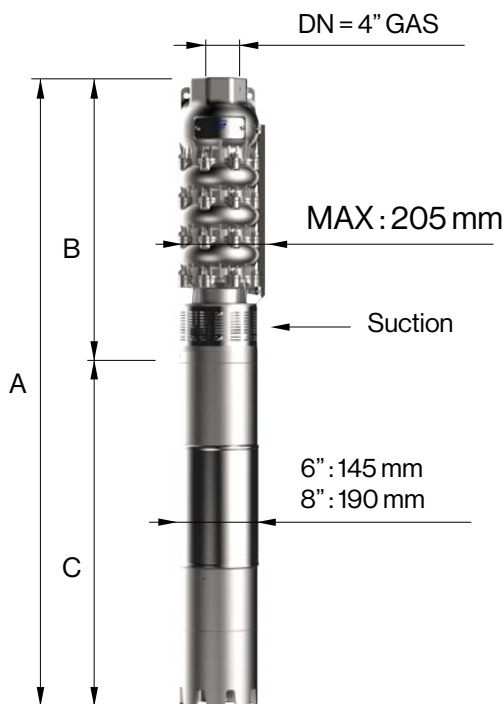


# 8LRH 62

60 Hz - 3500 rpm			Q								
TYPE	P2		l/min	0	720	960	1080	1200	1320	1440	1560
			l/sec	0,0	12,0	16,0	18,0	20,0	22,0	24,0	26,0
	HP	kW	m <sup>3</sup> /h	0	43	58	65	72	79	86	94
8LRH 62/01	10	7,5	H (m)	33	30	27	26	24	22	20	17
8LRH 62/02	17,5	13		65	60	55	52	48	44	39	33
8LRH 62/03	30	22		98	91	82	78	73	66	59	50
8LRH 62/04	35	26		130	121	109	104	97	88	78	67
8LRH 62/05	50	37		163	151	137	130	121	109	98	84
8LRH 62/06	60	44		195	181	164	156	145	131	118	100
8LRH 62/07	60	44		228	212	192	181	169	153	137	117
8LRH 62/08	75	55		260	242	219	207	194	175	157	134
8LRH 62/09	90	66		293	272	246	233	218	197	176	150
8LRH 62/10	90	66		325	302	274	259	242	219	196	167
8LRH 62/11	100	75		358	333	301	285	266	241	215	184
8LRH 62/12	125	92		391	363	328	311	290	263	235	200
8LRH 62/13	125	92		423	393	356	337	314	285	255	217
8LRH 62/14	125	92		456	423	383	363	339	306	274	234
8LRH 62/15	150	110		488	454	410	389	363	328	294	251
8LRH 62/16	150	110		521	484	438	415	387	350	313	267
8LRH 62/17	150	110		553	514	465	441	411	372	333	284

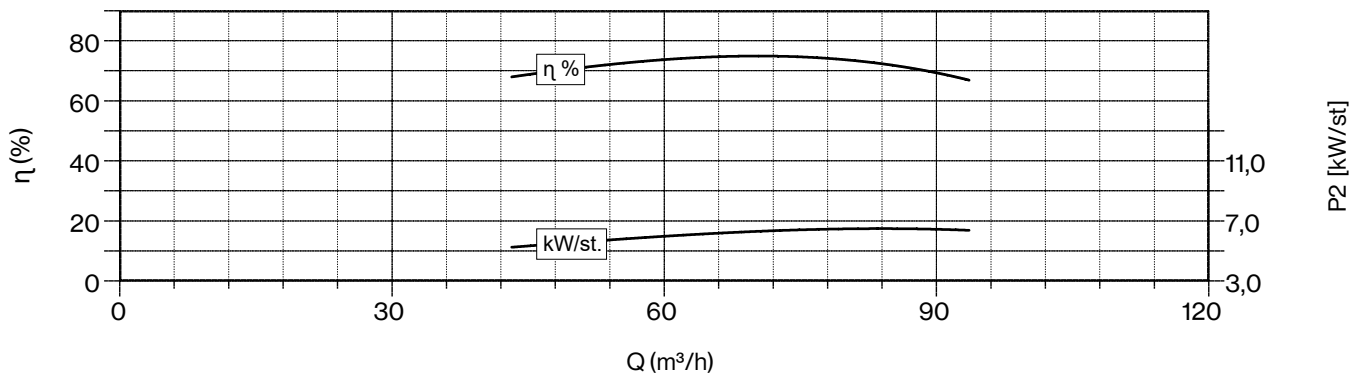
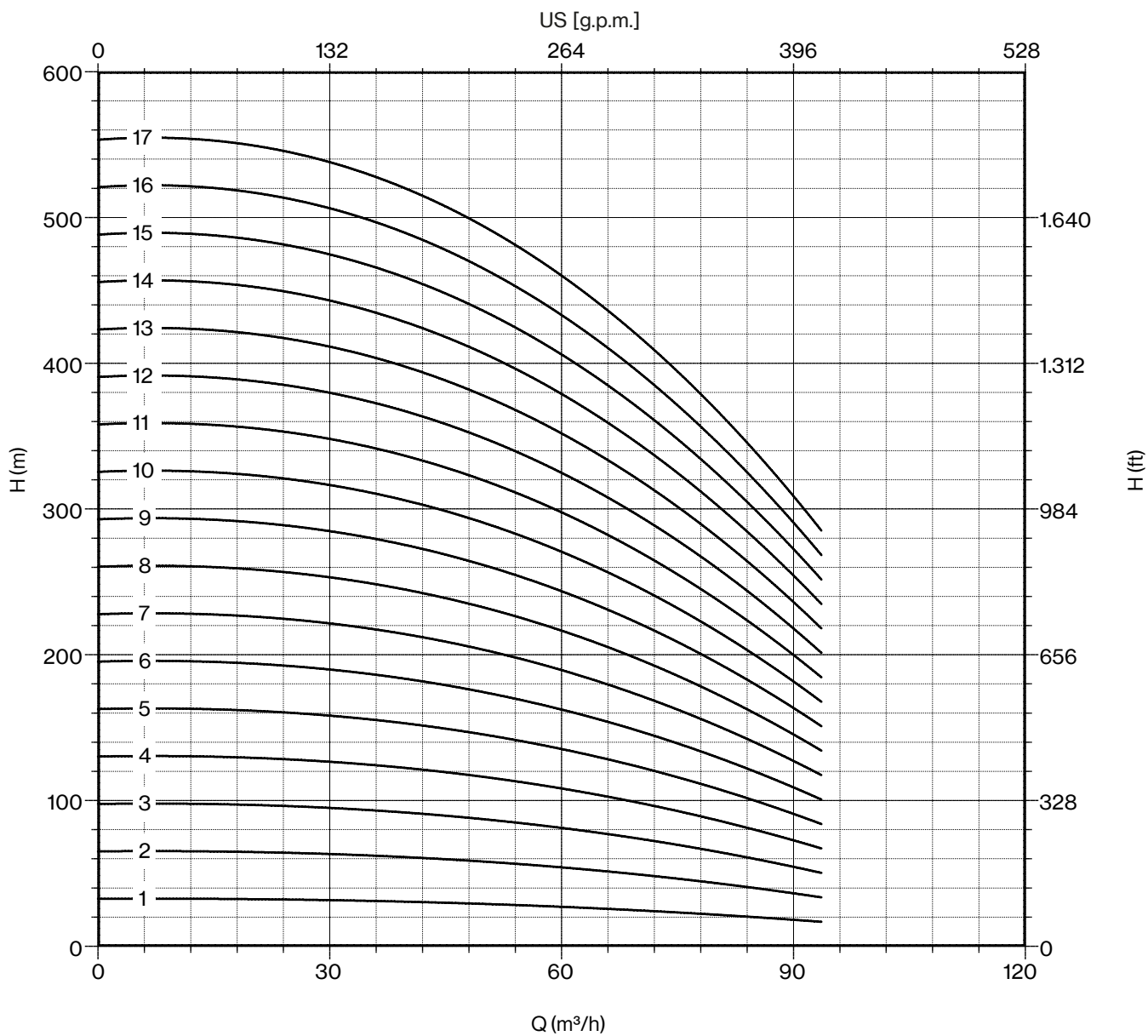
Max Eff. % =	75
Max kW / St. =	6,5

NPSH (m)	Q=25%	Q=50%	Q=75%	Q=100%
	3,5	3,5	6	8

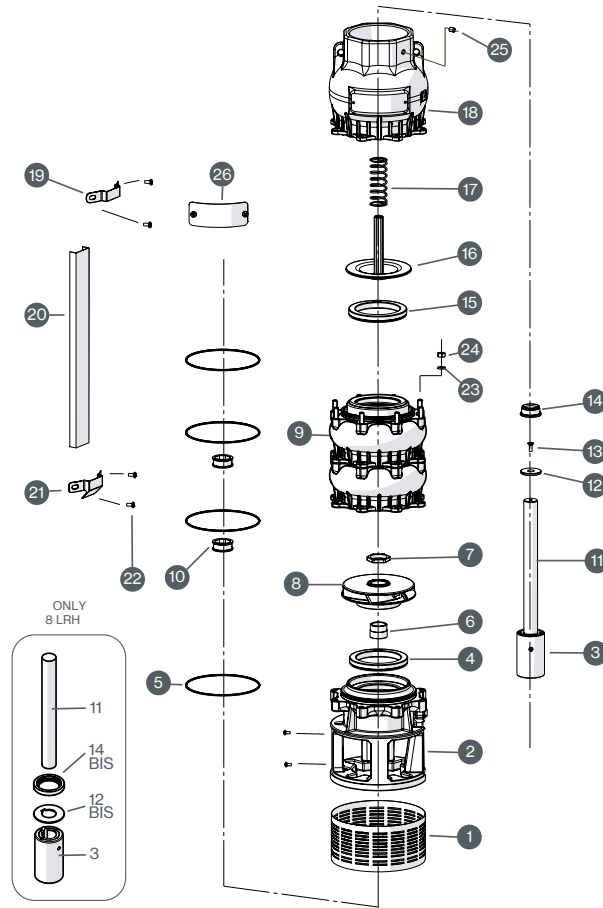


TYPE	MOTOR BRACKET	DIMENSIONS (mm)			WEIGHT (kg)	
		A	B	C	MOTOR	PUMP
8LRH 62/01-6	6" NEMA	1169	468	701	55	22
8LRH 62/02-6		1397	556	841	70	29
8LRH 62/03-6		1715	644	1071	92	36
8LRH 62/04-6		1913	732	1181	100	44
8LRH 62/05-6		2161	820	1341	118	51
8LRH 62/06	8" NEMA	2031	908	1123	178	58
8LRH 62/07		2119	996	1123	178	65
8LRH 62/08		2317	1084	1233	200	72
8LRH 62/09		2475	1172	1303	214	79
8LRH 62/10		2563	1260	1303	214	87
8LRH 62/11		2731	1348	1383	230	94
8LRH 62/12		3019	1436	1583	270	101
8LRH 62/13		3107	1524	1583	270	108
8LRH 62/14		3195	1612	1583	270	115
8LRH 62/15		3433	1700	1733	300	122
8LRH 62/16		3521	1788	1733	300	129
8LRH 62/17		3609	1876	1733	300	137





# 6LRH-8LRH



N. CODE	DESCRIPTION	LRHS EXECUTION	LRHX EXECUTION	LRHD 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>O-RING</b>	NBR	NBR	NBR	N° of Stages
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>IMPELLER</b>	AISI 304	AISI 316	Duplex EN 1.4462	N° of Stages
9	<b>DIFFUSER</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
10	<b>BEARING BUSH</b>	NBR	NBR	NBR	N° of Stages
11	<b>SHAFT</b>	AISI 304	AISI 316	Duplex EN 1.4462	1
12	<b>DISK</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
13	<b>SCREW</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
14	<b>COUNTERTHRUST</b>	PTFE+25% CARBON	PTFE+25% CARBON	PTFE+25% CARBON	1
15	<b>GASKET VALVE</b>	NBR	NBR	NBR	1
16	<b>VALVE</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
17	<b>SPRING</b>	AISI 301	AISI 316	Duplex EN 1.4462	-
18	<b>BODY VALVE</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
19	<b>UPPER FLANGE</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
20	<b>COVER CABLE</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
21	<b>LOWER FLANGE</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
22	<b>SCREW M4x8</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
23	<b>WASHER</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
24	<b>NUT</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
25	<b>GRAIN</b>	AISI 304	AISI 316	Duplex EN 1.4462	-
26	<b>METALLIC LABEL</b>	AISI 304	AISI 316	Duplex EN 1.4462	-

\* Recommended spare parts quantity

