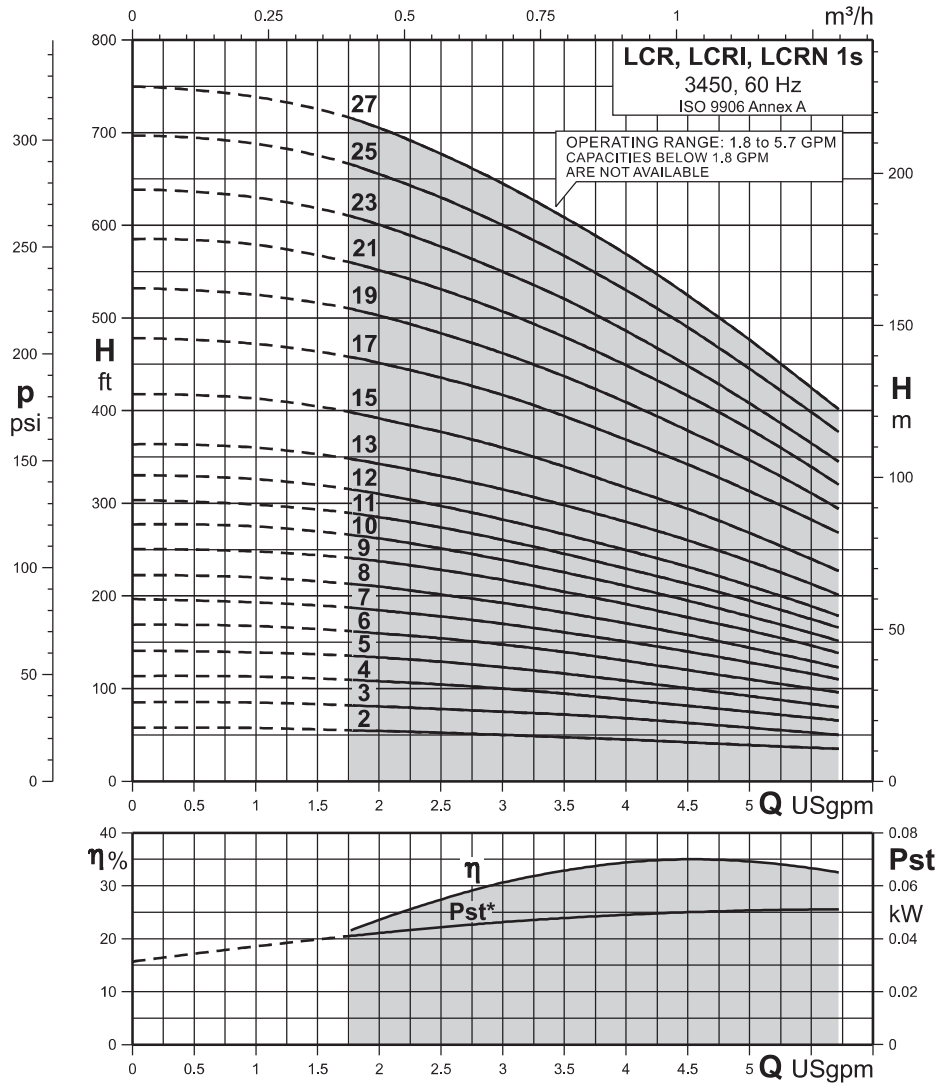


# PERFORMANCE CURVES

## 4.5 GPM

## LCR, LCRI, LCRN 1s

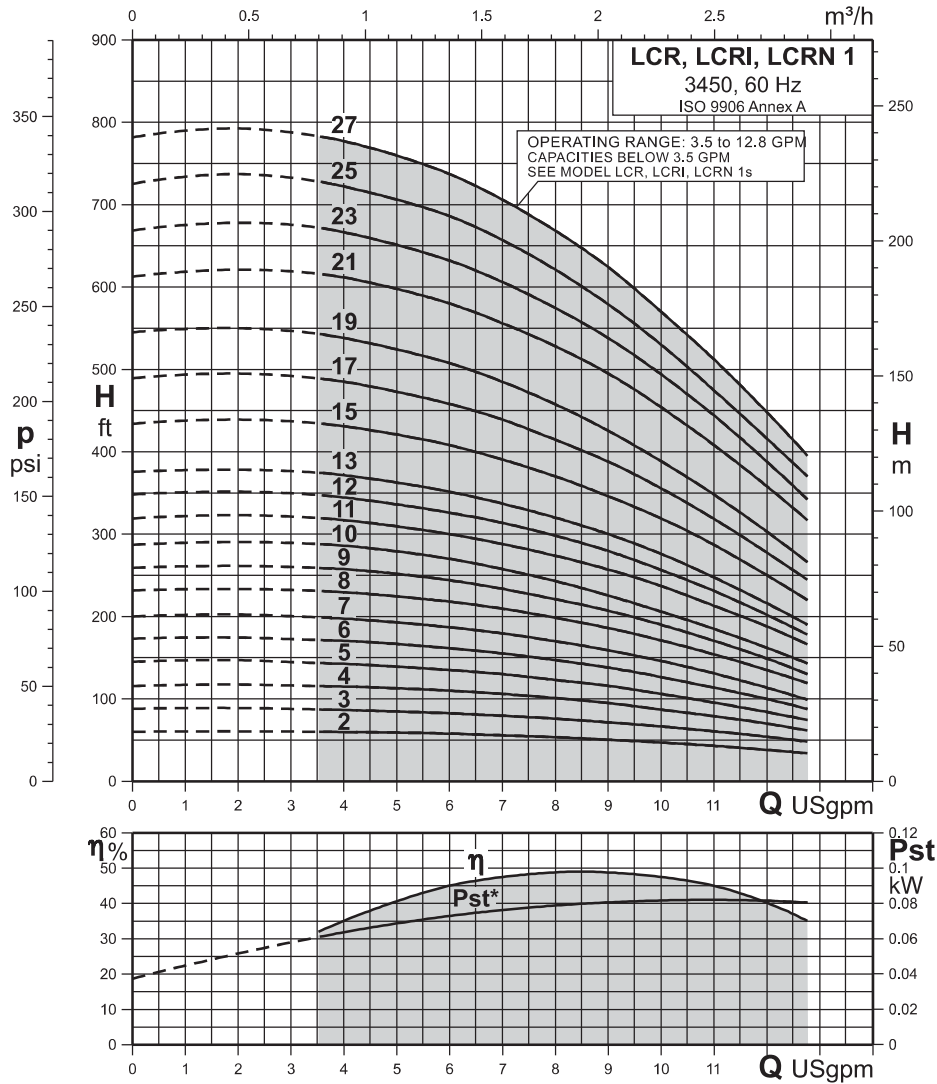


\* Pst = Power with reference to one stage.

### PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm									
				7.6	9.5	11.4	13.2	15.1	17.0	18.9	20.8	21.6	
				2	2.5	3	3.5	4	4.5	5	5.5	5.7	
LCR, LCRI, LCRN 1s/2	1/3	0.25	H ft.	54	52	50	48	45	42	39	36	35	
LCR, LCRI, LCRN 1s/3	1/3	0.25		81	78	75	72	68	63	58	53	50	
LCR, LCRI, LCRN 1s/4	1/3	0.25		108	105	100	95	88	82	75	69	66	
LCR, LCRI, LCRN 1s/5	1/3	0.25		134	129	123	116	109	100	92	84	80	
LCR, LCRI, LCRN 1s/6	1/2	0.37		160	154	148	140	130	120	110	100	96	
LCR, LCRI, LCRN 1s/7	1/2	0.37		185	178	170	161	151	140	128	116	110	
LCR, LCRI, LCRN 1s/8	1/2	0.37		210	202	193	182	171	158	144	130	123	
LCR, LCRI, LCRN 1s/9	3/4	0.55		238	228	217	205	191	177	163	147	139	
LCR, LCRI, LCRN 1s/10	3/4	0.55		262	251	239	226	211	195	178	160	152	
LCR, LCRI, LCRN 1s/11	3/4	0.55		285	274	261	246	230	213	195	175	166	
LCR, LCRI, LCRN 1s/12	3/4	0.55		310	297	283	267	250	232	211	189	179	
LCR, LCRI, LCRN 1s/13	1	0.75		343	330	315	298	280	260	238	213	201	
LCR, LCRI, LCRN 1s/15	1	0.75		392	377	360	340	317	294	268	240	227	
LCR, LCRI, LCRN 1s/17	1 1/2	1.10		451	436	417	394	369	342	313	283	268	
LCR, LCRI, LCRN 1s/19	1 1/2	1.10		502	484	462	437	409	379	347	311	294	
LCR, LCRI, LCRN 1s/21	1 1/2	1.10		552	531	507	480	449	416	380	340	320	
LCR, LCRI, LCRN 1s/23	1 1/2	1.10		601	577	550	521	486	449	408	365	345	
LCR, LCRI, LCRN 1s/25	2	1.50		655	630	600	567	530	490	445	399	377	
LCR, LCRI, LCRN 1s/27	2	1.50		705	677	645	609	569	525	477	425	402	

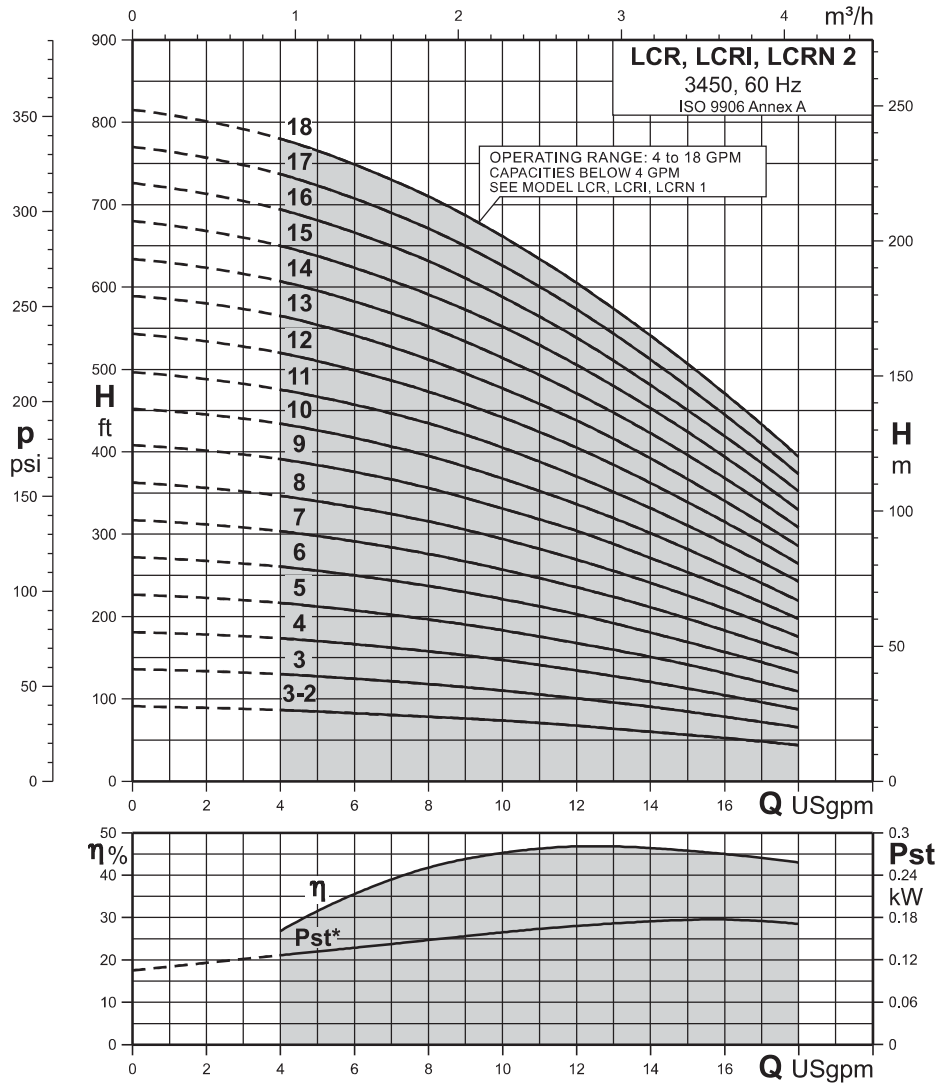




\* Pst = Power with reference to one stage.

PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm									
				15.1	22.7	26.5	30.3	34.1	37.9	41.6	45.4	48.5	
				4	6	7	8	9	10	11	12	12.8	
LCR, LCRI, LCRN 1/2	1/3	0.25	H ft.	60	58	56	54	50	47	43	38	34	
LCR, LCRI, LCRN 1/3	1/3	0.25		87	83	80	76	72	67	61	54	48	
LCR, LCRI, LCRN 1/4	1/2	0.37		115	110	106	101	95	87	79	70	62	
LCR, LCRI, LCRN 1/5	1/2	0.37		143	135	130	123	116	106	96	84	75	
LCR, LCRI, LCRN 1/6	3/4	0.55		171	162	155	147	138	127	114	100	88	
LCR, LCRI, LCRN 1/7	3/4	0.55		198	187	180	170	159	146	131	114	99	
LCR, LCRI, LCRN 1/8	1	0.75		230	218	210	199	186	171	154	135	119	
LCR, LCRI, LCRN 1/9	1	0.75		258	244	234	221	207	190	171	149	130	
LCR, LCRI, LCRN 1/10	1	0.75		286	270	258	243	226	206	185	162	143	
LCR, LCRI, LCRN 1/11	1 1/2	1.10		317	300	288	274	257	237	213	188	166	
LCR, LCRI, LCRN 1/12	1 1/2	1.10		345	326	314	298	280	257	231	202	178	
LCR, LCRI, LCRN 1/13	1 1/2	1.10		372	352	337	320	300	276	248	216	190	
LCR, LCRI, LCRN 1/15	2	1.50		431	408	391	370	346	319	287	250	220	
LCR, LCRI, LCRN 1/17	2	1.50		485	458	439	415	388	356	319	278	245	
LCR, LCRI, LCRN 1/19	2	1.50		538	508	485	458	426	389	348	303	266	
LCR, LCRI, LCRN 1/21	3	2.20		612	580	556	528	495	454	408	358	317	
LCR, LCRI, LCRN 1/23	3	2.20		667	632	606	575	538	494	444	388	342	
LCR, LCRI, LCRN 1/25	3	2.20		722	686	657	621	579	530	475	416	370	
LCR, LCRI, LCRN 1/27	3	2.20		777	737	706	668	624	570	512	448	395	

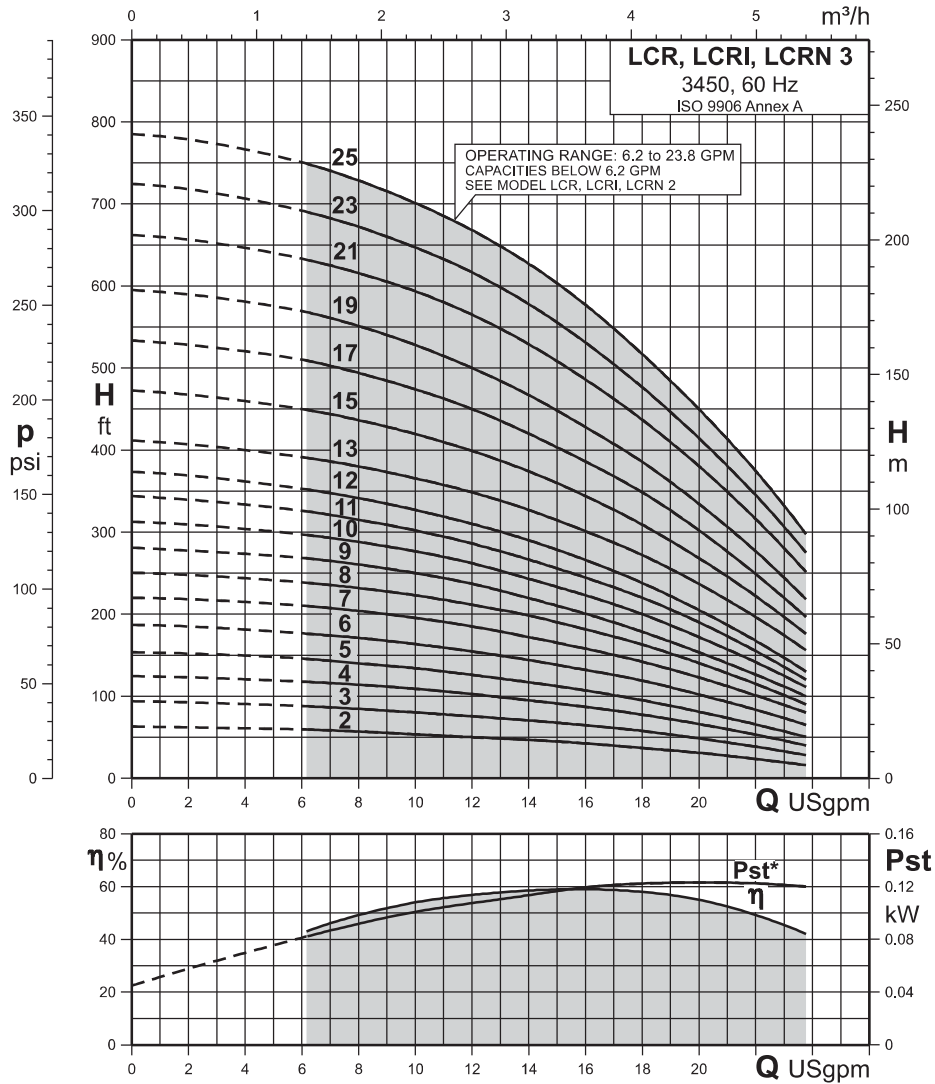


\* Pst = Power with reference to one stage.

PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm							
				15.1	22.7	30.3	37.9	45.4	53	60.6	68.1
				4	6	8	10	12	14	16	18
LCR, LCRI, LCRN 2/3-2	1/2	0.37	H ft.	87	82	78	74	68	60	53	44
LCR, LCRI, LCRN 2/3	3/4	0.55		130	125	118	110	101	91	78	66
LCR, LCRI, LCRN 2/4	1	0.75		174	167	158	147	135	121	105	87
LCR, LCRI, LCRN 2/5	1 1/2	1.10		217	207	197	183	168	151	131	109
LCR, LCRI, LCRN 2/6	1 1/2	1.10		261	250	237	221	203	181	157	132
LCR, LCRI, LCRN 2/7	2	1.50		304	290	276	257	236	211	183	154
LCR, LCRI, LCRN 2/8	2	1.50		347	332	316	294	269	241	210	176
LCR, LCRI, LCRN 2/9	3	2.20		391	375	356	331	304	271	236	197
LCR, LCRI, LCRN 2/10	3	2.20		434	415	395	368	337	301	261	219
LCR, LCRI, LCRN 2/11	3	2.20		476	457	435	405	370	332	289	243
LCR, LCRI, LCRN 2/12	3	2.20		520	499	473	442	405	362	315	264
LCR, LCRI, LCRN 2/13	3	2.20		565	540	512	477	438	392	340	285
LCR, LCRI, LCRN 2/14	5	3.70		607	582	552	514	471	423	368	308
LCR, LCRI, LCRN 2/15	5	3.70		650	624	591	552	506	453	394	329
LCR, LCRI, LCRN 2/16	5	3.70		694	665	632	588	539	481	419	352
LCR, LCRI, LCRN 2/17	5	3.70		737	708	671	626	573	512	445	373
LCR, LCRI, LCRN 2/18	5	3.70		780	749	710	662	605	541	471	394



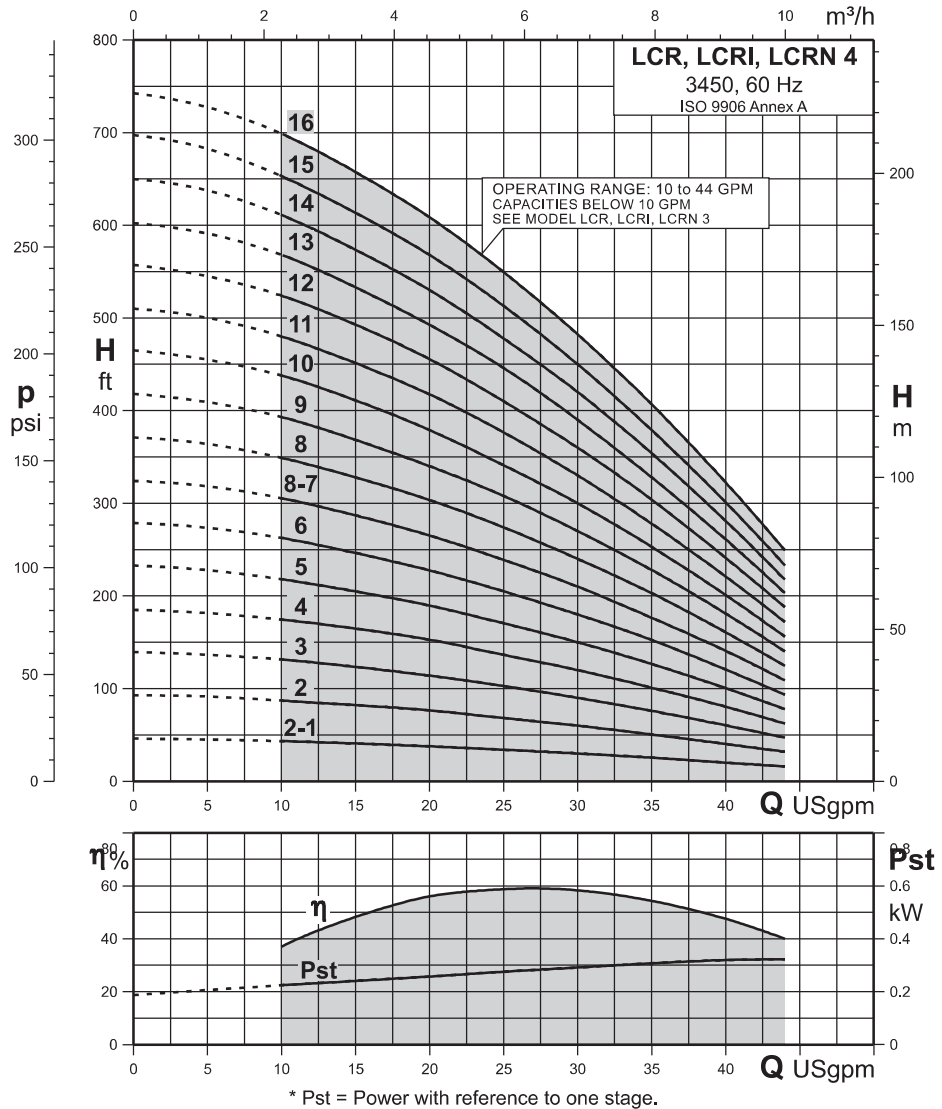


\* Pst = Power with reference to one stage.

PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm									
				30.3	37.9	45.4	53	60.6	68.1	75.7	83.3	90.1	
				8	10	12	14	16	18	20	22	23.8	
LCR, LCRI, LCRN 3/2	1/3	0.25	H ft.	57	54	50	47	43	37	31	24	16	
LCR, LCRI, LCRN 3/3	1/2	0.37		85	80	76	71	65	58	49	39	28	
LCR, LCRI, LCRN 3/4	3/4	0.55		114	109	103	95	87	78	66	53	40	
LCR, LCRI, LCRN 3/5	3/4	0.55		140	134	126	117	107	95	81	66	50	
LCR, LCRI, LCRN 3/6	1	0.75		171	164	155	144	132	119	102	84	65	
LCR, LCRI, LCRN 3/7	1 1/2	1.10		204	196	185	172	158	142	123	101	80	
LCR, LCRI, LCRN 3/8	1 1/2	1.10		232	223	212	198	182	163	140	115	90	
LCR, LCRI, LCRN 3/9	1 1/2	1.10		261	250	237	220	201	179	154	126	100	
LCR, LCRI, LCRN 3/10	2	1.50		288	277	262	243	223	200	172	142	111	
LCR, LCRI, LCRN 3/11	2	1.50		315	302	286	267	245	220	190	155	120	
LCR, LCRI, LCRN 3/12	2	1.50		342	327	310	290	266	238	205	168	130	
LCR, LCRI, LCRN 3/13	3	2.20		380	366	349	327	301	272	237	197	156	
LCR, LCRI, LCRN 3/15	3	2.20		437	420	399	374	344	309	268	222	176	
LCR, LCRI, LCRN 3/17	3	2.20		494	474	450	420	386	349	302	249	197	
LCR, LCRI, LCRN 3/19	3	2.20		551	528	500	467	428	386	335	277	218	
LCR, LCRI, LCRN 3/21	5	3.70		616	594	565	529	486	437	381	316	252	
LCR, LCRI, LCRN 3/23	5	3.70		672	647	617	578	531	477	415	345	275	
LCR, LCRI, LCRN 3/25	5	3.70		729	701	668	627	577	517	450	375	298	





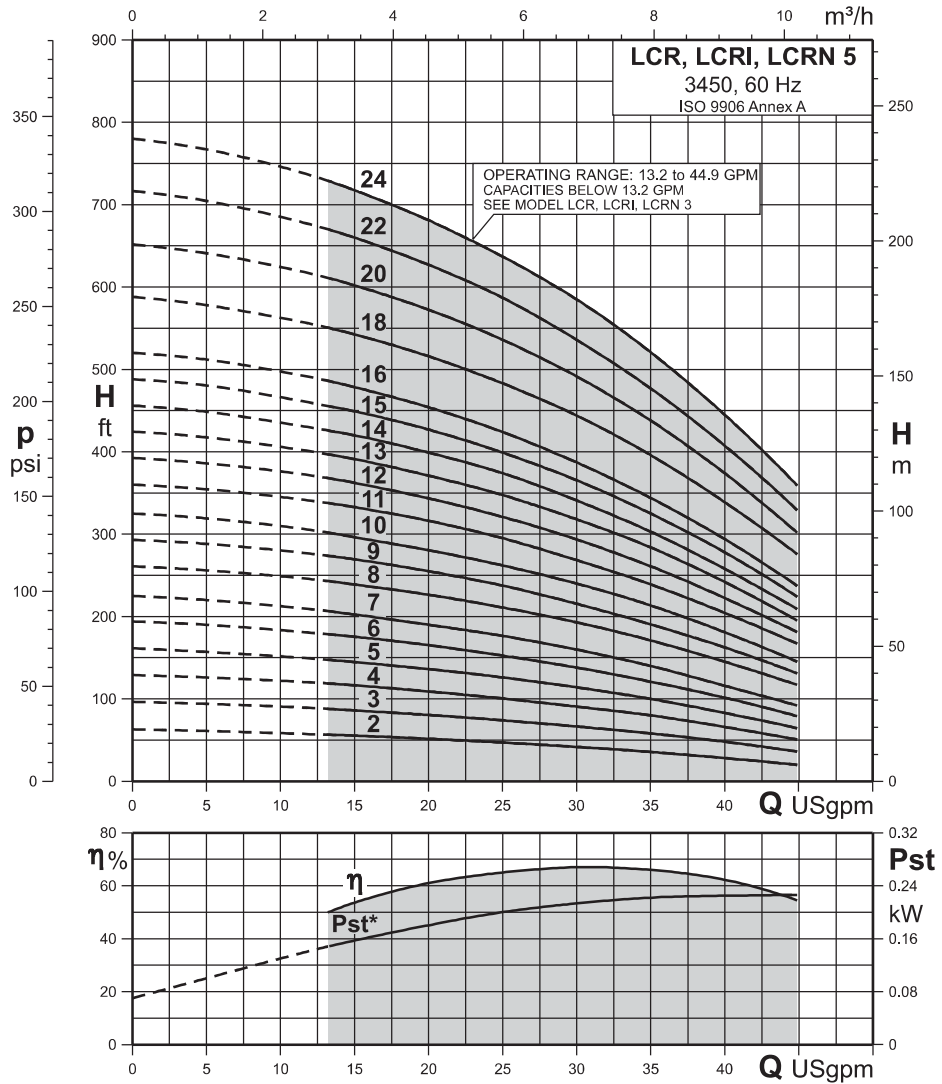
PERFORMANCE CHART

PUMP TYPE	HP	kW	Q	n = 3450 rpm								
				I/min	37.9	56.8	75.7	74.6	113.6	132.5	151.4	166.6
				USgpm	10	15	20	25	30	35	40	44
LCR, LCRI, LCRN 4 - 2-1	1/2	0.37	H ft.	43	41	38	34	30	26	20	16	
LCR, LCRI, LCRN 4 - 2	3/4	0.55		87	83	77	68	60	51	40	32	
LCR, LCRI, LCRN 4 - 3	1 1/2	1.10		131	123	114	103	90	76	60	47	
LCR, LCRI, LCRN 4 - 4	1 1/2	1.10		175	165	153	137	120	101	80	62	
LCR, LCRI, LCRN 4 - 5	2	1.50		218	205	190	171	150	127	101	78	
LCR, LCRI, LCRN 4 - 6	3	2.20		263	246	228	205	180	153	121	94	
LCR, LCRI, LCRN 4 - 8-7	3	2.20		306	287	265	239	210	177	141	109	
LCR, LCRI, LCRN 4 - 8	3	2.20		349	328	304	274	240	203	161	125	
LCR, LCRI, LCRN 4 - 9	5	3.70		393	369	340	308	270	228	181	140	
LCR, LCRI, LCRN 4 - 10	5	3.70		438	412	379	341	300	253	201	156	
LCR, LCRI, LCRN 4 - 11	5	3.70		480	451	418	377	330	278	221	172	
LCR, LCRI, LCRN 4 - 12	5	3.70		524	494	456	410	360	304	241	188	
LCR, LCRI, LCRN 4 - 13	5	3.70		568	532	493	446	390	328	261	203	
LCR, LCRI, LCRN 4 - 14	5	3.70		611	573	530	478	420	354	281	218	
LCR, LCRI, LCRN 4 - 15	7 1/2	5.50		653	614	568	513	450	379	301	233	
LCR, LCRI, LCRN 4 - 16	7 1/2	5.50		699	657	609	550	482	407	323	249	

# PERFORMANCE CURVES

## 30 GPM

## LCR, LCRI, LCRN 5

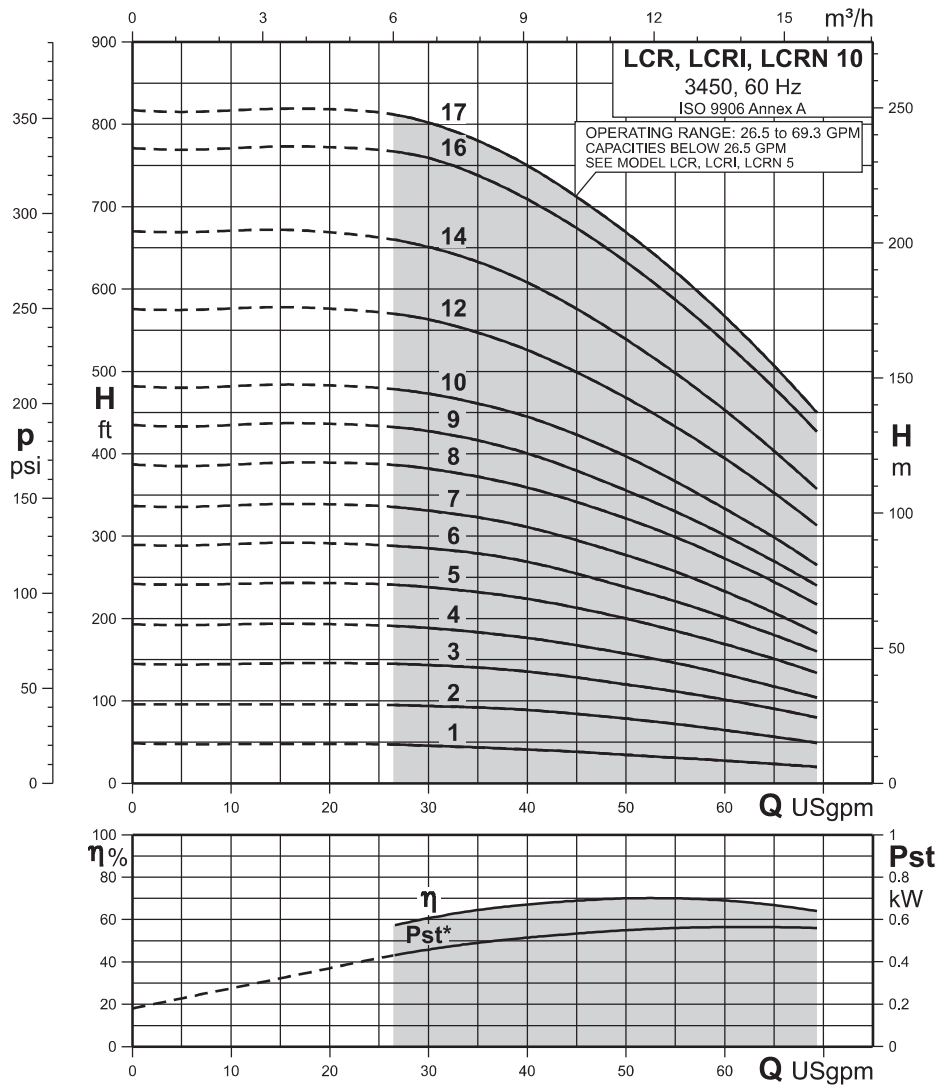


\* Pst = Power with reference to one stage.

### PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm						
				56.8	75.7	94.6	113.6	132.5	151.4	170.3
				15	20	25	30	35	40	45
LCR, LCRI, LCRN 5/2	3/4	0.55	H ft.	55	52	47	42	36	28	20
LCR, LCRI, LCRN 5/3	1	0.75		86	81	74	67	58	48	36
LCR, LCRI, LCRN 5/4	1 1/2	1.10		117	109	101	91	80	66	51
LCR, LCRI, LCRN 5/5	1 1/2	1.10		145	136	126	114	100	83	65
LCR, LCRI, LCRN 5/6	2	1.50		176	165	153	138	121	102	79
LCR, LCRI, LCRN 5/7	2	1.50		203	190	177	160	140	116	92
LCR, LCRI, LCRN 5/8	3	2.20		239	227	211	193	171	145	117
LCR, LCRI, LCRN 5/9	3	2.20		270	255	238	216	191	163	131
LCR, LCRI, LCRN 5/10	3	2.20		296	281	262	240	214	181	145
LCR, LCRI, LCRN 5/11	5	3.70		333	316	295	269	239	205	167
LCR, LCRI, LCRN 5/12	5	3.70		362	344	321	294	261	223	181
LCR, LCRI, LCRN 5/13	5	3.70		391	371	348	318	284	242	195
LCR, LCRI, LCRN 5/14	5	3.70		420	399	374	341	303	258	209
LCR, LCRI, LCRN 5/15	5	3.70		449	427	399	366	325	278	224
LCR, LCRI, LCRN 5/16	5	3.70		479	454	424	387	344	294	237
LCR, LCRI, LCRN 5/18	7 1/2	5.50		543	516	483	444	396	339	276
LCR, LCRI, LCRN 5/20	7 1/2	5.50		602	573	536	492	438	374	302
LCR, LCRI, LCRN 5/22	7 1/2	5.50		660	627	587	536	477	408	329
LCR, LCRI, LCRN 5/24	7 1/2	5.50		718	681	637	585	521	445	359





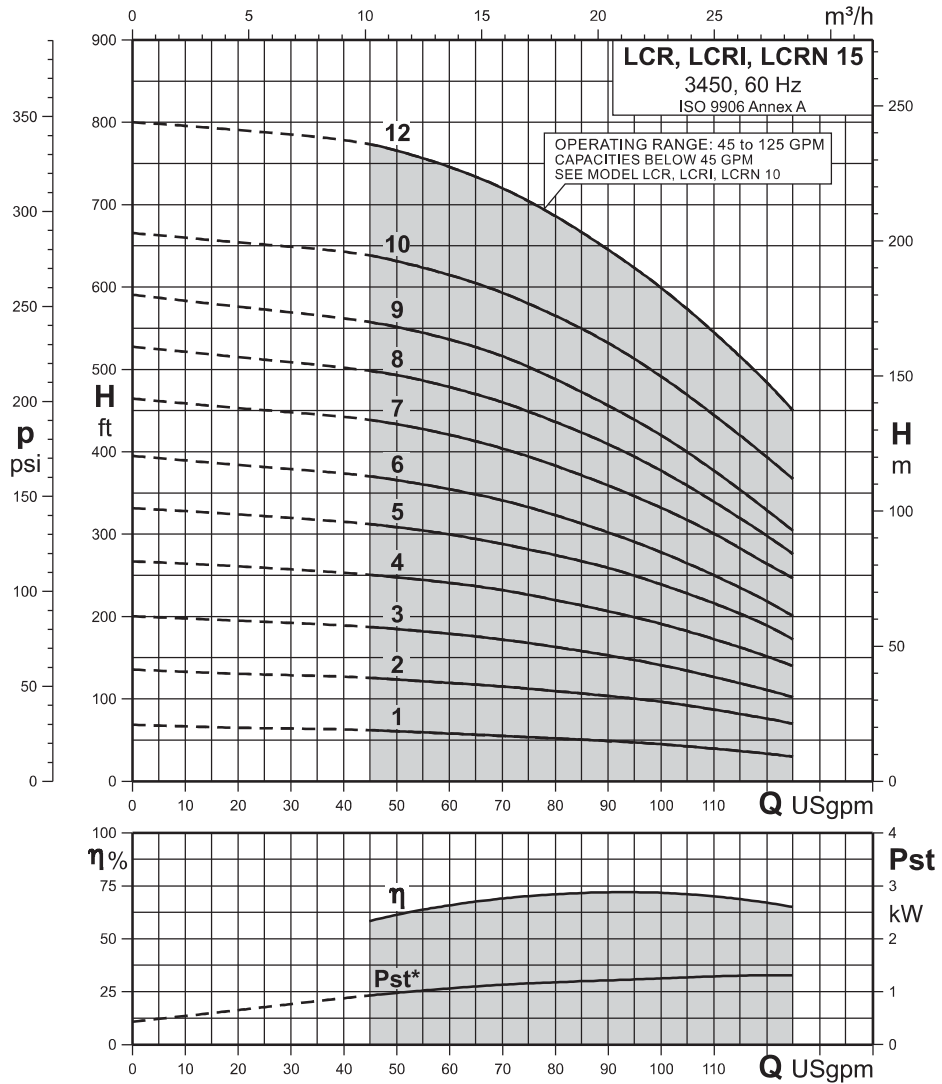
\* Pst = Power with reference to one stage.

PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm							
				113.6	151.4	170.3	189.3	208.2	227.1	246.1	262.3
				30	40	45	50	55	60	65	69.3
LCR, LCRI, LCRN 10/1	3/4	0.55	H ft.	46	41	38	35	31	28	24	20
LCR, LCRI, LCRN 10/2	1 1/2	1.10		94	89	84	79	72	65	57	49
LCR, LCRI, LCRN 10/3	3	2.20		144	136	129	120	112	102	91	80
LCR, LCRI, LCRN 10/4	3	2.20		189	177	168	157	146	133	118	104
LCR, LCRI, LCRN 10/5	5	3.70		238	224	213	200	185	169	151	134
LCR, LCRI, LCRN 10/6	5	3.70		285	269	255	238	221	201	180	160
LCR, LCRI, LCRN 10/7	5	3.70		331	311	295	277	257	233	207	182
LCR, LCRI, LCRN 10/8	7 1/2	5.50		382	359	342	322	299	273	245	217
LCR, LCRI, LCRN 10/9	7 1/2	5.50		428	401	380	356	330	301	270	240
LCR, LCRI, LCRN 10/10	7 1/2	5.50		473	445	423	397	367	334	299	265
LCR, LCRI, LCRN 10/12	10	7.50		563	526	499	468	433	395	353	313
LCR, LCRI, LCRN 10/14	10	7.50		651	608	576	539	498	453	404	357
LCR, LCRI, LCRN 10/16	15	11.0		759	709	674	633	587	536	480	427
LCR, LCRI, LCRN 10/17	15	11.0		802	750	712	669	621	567	507	450







\* Pst = Power with reference to one stage.

PERFORMANCE CHART

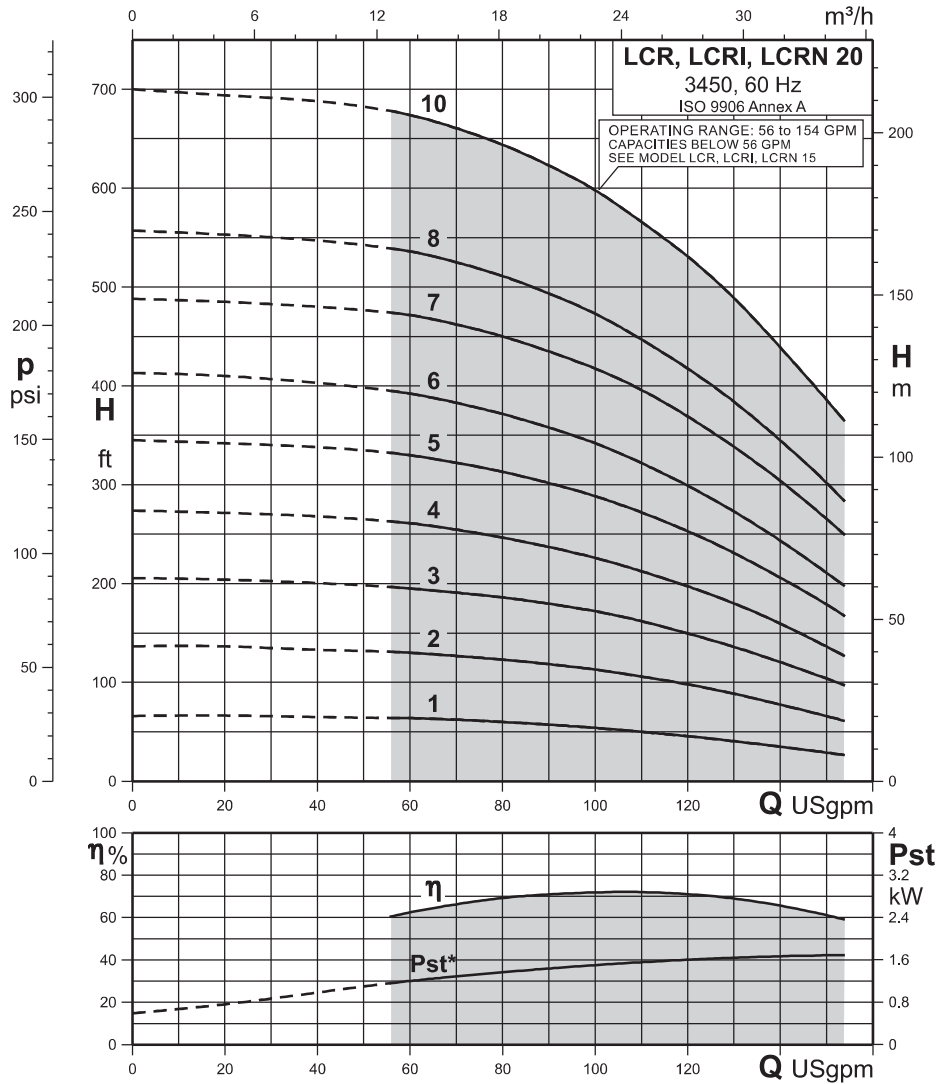
PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm									
				189.3	265	302.8	340.7	378.5	416.4	454.2	473.2		
				50	70	80	90	100	110	120	125		
LCR, LCRI, LCRN 15/1	2	1.50	H ft.	61	55	52	49	45	40	34	30		
LCR, LCRI, LCRN 15/2	5	3.70		124	115	110	104	97	87	76	70		
LCR, LCRI, LCRN 15/3	5	3.70		185	172	163	153	141	127	111	102		
LCR, LCRI, LCRN 15/4	7 1/2	5.50		248	232	220	207	191	173	152	140		
LCR, LCRI, LCRN 15/5	10	7.50		309	288	275	259	239	216	189	172		
LCR, LCRI, LCRN 15/6	10	7.50		366	341	323	302	278	250	219	201		
LCR, LCRI, LCRN 15/7	15	11.0		434	404	383	359	332	301	264	247		
LCR, LCRI, LCRN 15/8	15	11.0		493	460	436	409	377	339	298	276		
LCR, LCRI, LCRN 15/9	15	11.0		552	516	488	456	420	377	329	304		
LCR, LCRI, LCRN 15/10	20	15.0		631	593	565	532	492	445	394	367		
LCR, LCRI, LCRN 15/12	25	18.5		766	720	686	645	599	545	484	450		



# PERFORMANCE CURVES

# 110 GPM

# LCR, LCRI, LCRN 20



\* Pst = Power with reference to one stage.

## PERFORMANCE CHART

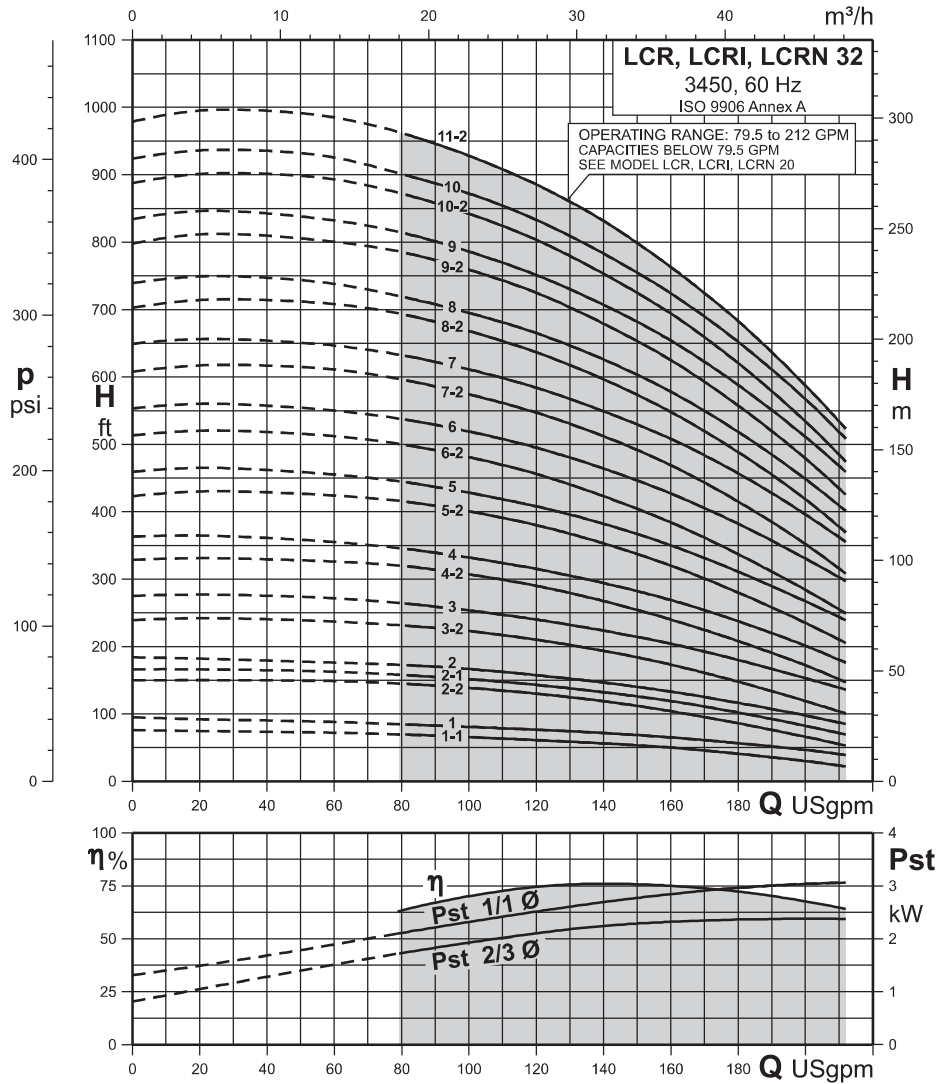
PUMP TYPE	HP	kW	Q l/min USgpm	n = 3450 rpm								
				227.1	378.5	416.4	454.2	492.1	530	567.8	583	
				60	100	110	120	130	140	150	154	
LCR, LCRI, LCRN 20/1	3	2.20	H ft.	64	54	50	46	41	35	29	27	
LCR, LCRI, LCRN 20/2	5	3.70		130	113	106	98	89	78	66	61	
LCR, LCRI, LCRN 20/3	7 1/2	5.50		195	172	162	150	136	121	104	97	
LCR, LCRI, LCRN 20/4	10	7.50		261	226	213	197	180	160	136	127	
LCR, LCRI, LCRN 20/5	15	11.0		330	289	272	253	231	206	179	167	
LCR, LCRI, LCRN 20/6	15	11.0		392	342	322	299	273	244	211	198	
LCR, LCRI, LCRN 20/7	20	15.0		472	418	396	369	339	304	266	249	
LCR, LCRI, LCRN 20/8	20	15.0		536	473	447	418	384	345	302	283	
LCR, LCRI, LCRN 20/10	25	18.5		674	598	566	531	489	439	386	364	



# PERFORMANCE CURVES

## 140 GPM

## LCR, LCRI, LCRN 32



### PERFORMANCE CHART

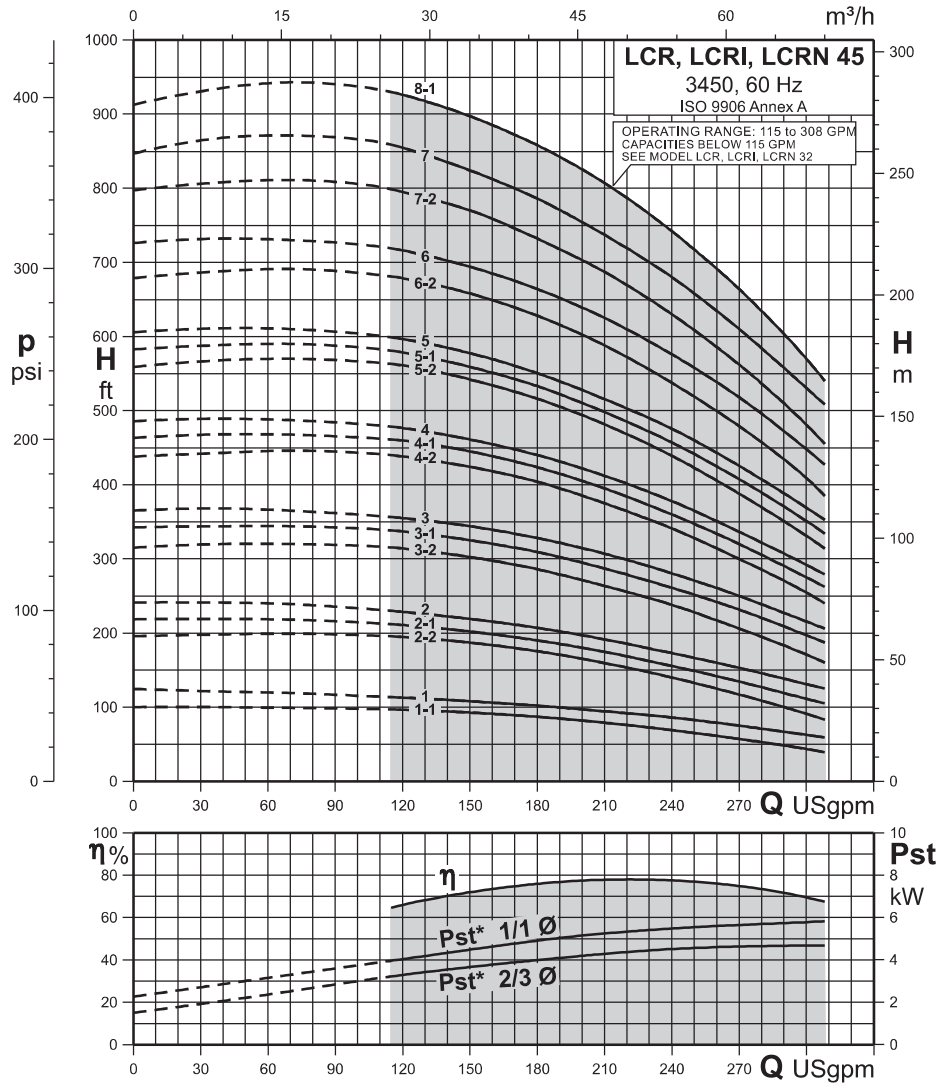
PUMP TYPE	HP	kW	Q	n = 3450 rpm								
				I/min	302.8	378.5	454.2	530	605.7	681.4	757.1	802.5
				USgpm	80	100	120	140	160	180	200	212
LCR, LCRI, LCRN 32/1-1	3	2.20	H ft.	69	66	61	56	50	41	30	22	
LCR, LCRI, LCRN 32/1	5	3.70		84	81	77	72	65	57	47	39	
LCR, LCRI, LCRN 32/2-2	7 1/2	5.50		145	139	130	119	104	86	66	53	
LCR, LCRI, LCRN 32/2-1	7 1/2	5.50		158	152	143	132	119	102	82	69	
LCR, LCRI, LCRN 32/2	7 1/2	5.50		173	167	158	147	133	116	98	85	
LCR, LCRI, LCRN 32/3-2	10	7.50		231	223	210	194	173	148	119	101	
LCR, LCRI, LCRN 32/3	15	11.0		264	254	240	224	204	180	153	136	
LCR, LCRI, LCRN 32/4-2	15	11.0		319	307	290	268	240	208	172	147	
LCR, LCRI, LCRN 32/4	15	11.0		345	332	315	294	269	238	201	176	
LCR, LCRI, LCRN 32/5-2	20	15.0		416	401	380	353	320	280	235	205	
LCR, LCRI, LCRN 32/5	20	15.0		444	428	408	382	350	311	267	239	
LCR, LCRI, LCRN 32/6-2	25	18.5		500	481	456	423	384	337	284	249	
LCR, LCRI, LCRN 32/6	25	18.5		538	519	495	464	427	382	331	297	
LCR, LCRI, LCRN 32/7-2	25	18.5		597	574	547	512	469	415	352	308	
LCR, LCRI, LCRN 32/7	30	22.0		632	611	584	549	508	457	396	355	
LCR, LCRI, LCRN 32/8-2	30	22.0		692	668	637	597	548	489	419	369	
LCR, LCRI, LCRN 32/8	30	22.0		718	695	665	626	578	519	449	401	
LCR, LCRI, LCRN 32/9-2	40	30.0		785	759	725	679	625	558	479	425	
LCR, LCRI, LCRN 32/9	40	30.0		814	786	751	707	654	588	511	459	
LCR, LCRI, LCRN 32/10-2	40	30.0		871	842	804	753	694	621	534	474	
LCR, LCRI, LCRN 32/10	40	30.0		900	872	833	783	724	652	567	508	
LCR, LCRI, LCRN 32/11-2	40	30.0	962	928	886	832	763	683	587	523		



# PERFORMANCE CURVES

## 220 GPM

## LCR, LCRI, LCRN 45



\* Pst = Power with reference to one stage.

### PERFORMANCE CHART

PUMP TYPE	HP	kW	Q I/min USgpm	n = 3450 rpm								
				454.2	567.8	681.4	794.9	908.5	1022	1136	1166	
				120	150	180	210	240	270	300	308	
LCR, LCRI, LCRN 45/1-1	7 1/2	5.50	H ft.	97	93	87	79	69	57	44	39	
LCR, LCRI, LCRN 45/1	7 1/2	5.50		113	108	102	94	86	75	63	59	
LCR, LCRI, LCRN 45/2-2	15	11.0		195	187	176	160	140	117	91	83	
LCR, LCRI, LCRN 45/2-1	15	11.0		211	202	190	175	156	135	111	105	
LCR, LCRI, LCRN 45/2	15	11.0		229	219	207	191	173	153	131	125	
LCR, LCRI, LCRN 45/3-2	20	15.0		314	303	286	264	238	206	171	160	
LCR, LCRI, LCRN 45/3-1	25	18.5		337	325	309	287	261	232	197	187	
LCR, LCRI, LCRN 45/3	25	18.5		355	344	328	307	281	250	216	206	
LCR, LCRI, LCRN 45/4-2	30	22.0		438	424	404	375	341	300	255	240	
LCR, LCRI, LCRN 45/4-1	30	22.0		460	445	424	395	360	320	275	262	
LCR, LCRI, LCRN 45/4	30	22.0		477	461	440	412	378	337	292	279	
LCR, LCRI, LCRN 45/5-2	40	30.0		561	542	516	482	439	388	331	314	
LCR, LCRI, LCRN 45/5-1	40	30.0		579	559	533	498	457	408	351	334	
LCR, LCRI, LCRN 45/5	40	30.0		597	578	551	516	476	426	369	353	
LCR, LCRI, LCRN 45/6-2	50	37.0		679	658	628	588	538	479	409	385	
LCR, LCRI, LCRN 45/6	50	37.0		716	694	664	625	576	518	448	427	
LCR, LCRI, LCRN 45/7-2	50	37.0		795	770	732	687	630	562	481	455	
LCR, LCRI, LCRN 45/7	60	45.0		855	824	786	737	680	610	531	508	
LCR, LCRI, LCRN 45/8-1	60	45.0	926	897	858	807	742	664	570	540		

