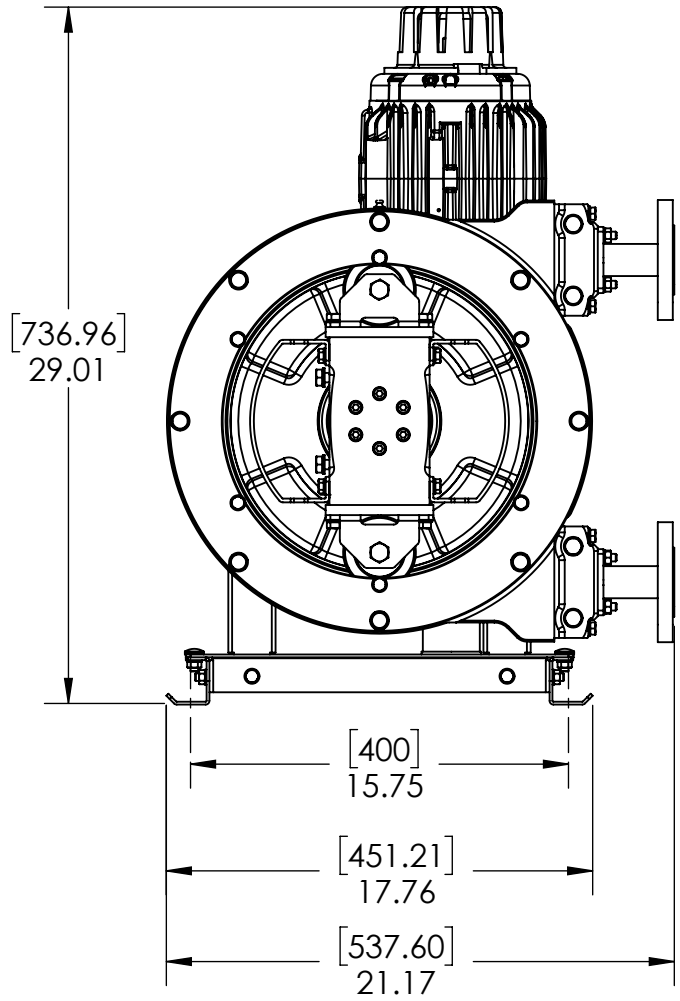

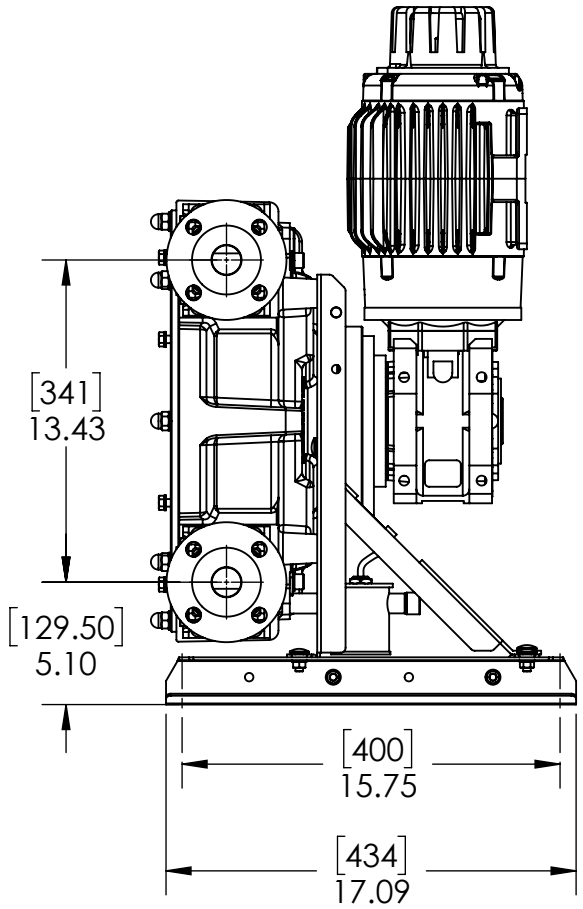

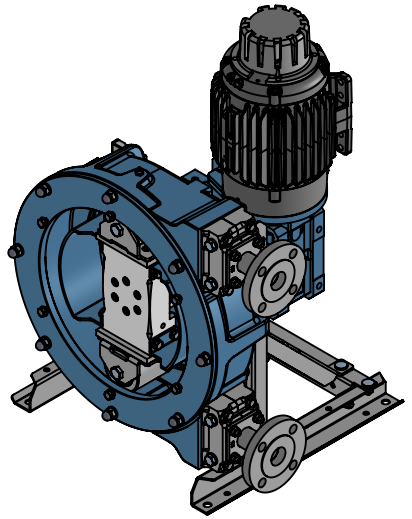

Drawing Notes:

- Right Angle Worm Gear Reducer: 90 PSI (6 Bar) Max, Refer To Pump Data Sheets For Gearbox & Motor Selection.
- Inverter Duty Motor Depicted.
- Inlet/Outlet Right Facing (position 1).
- Clear window removed to show full detail.

Model: M34- A Position 1

Rotho® PERISTALTIC PUMPS

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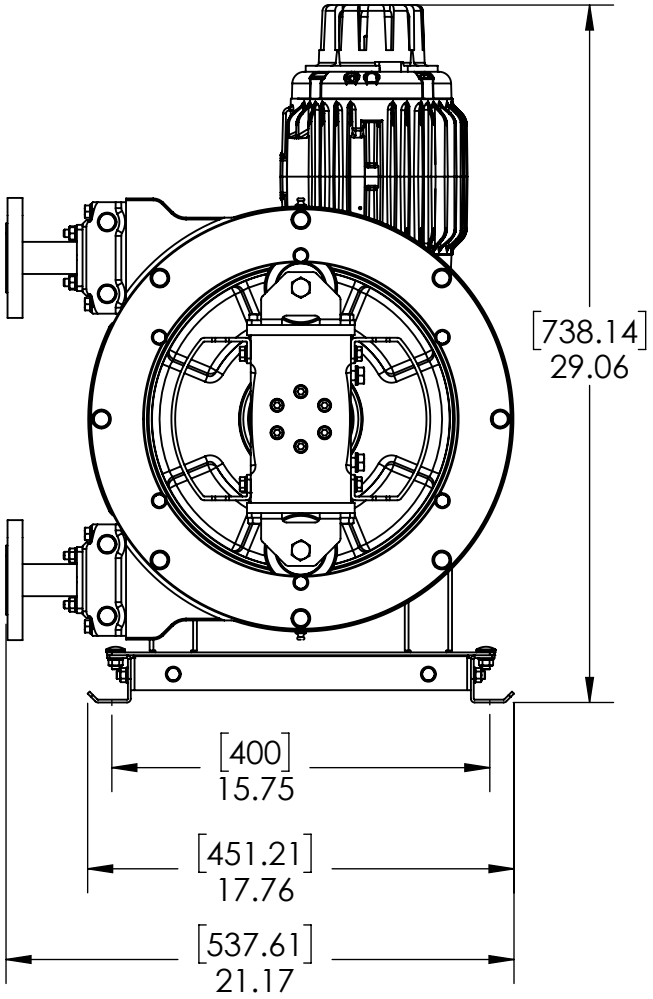
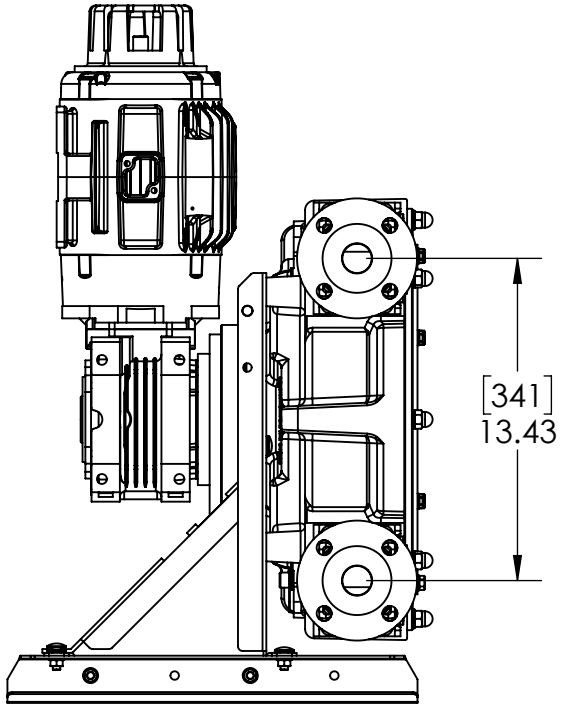
800-900-7867 (PUMP)

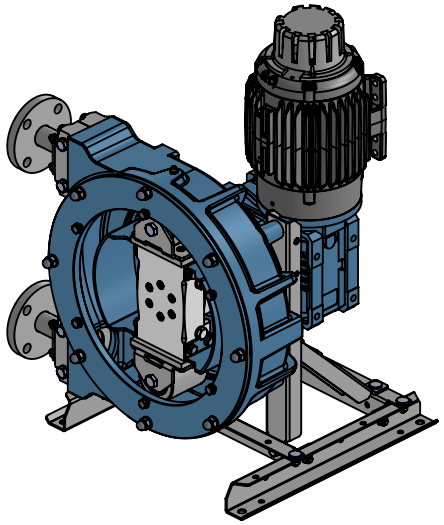
Dimension: Inches / (XX) MM

SHEET 1 OF 4

5 4 3 2 1







Drawing Notes:

- Right Angle Worm Gear Reducer: 120 PSI (8 Bar) Max, Refer To Pump Data Sheets For Gearbox & Motor Selection.
- Inverter Duty Motor Depicted.
- Inlet/Outlet Verticle Oriented (position 3).

Model: M34 A Position 2

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Dimension: Inches / (XX) MM

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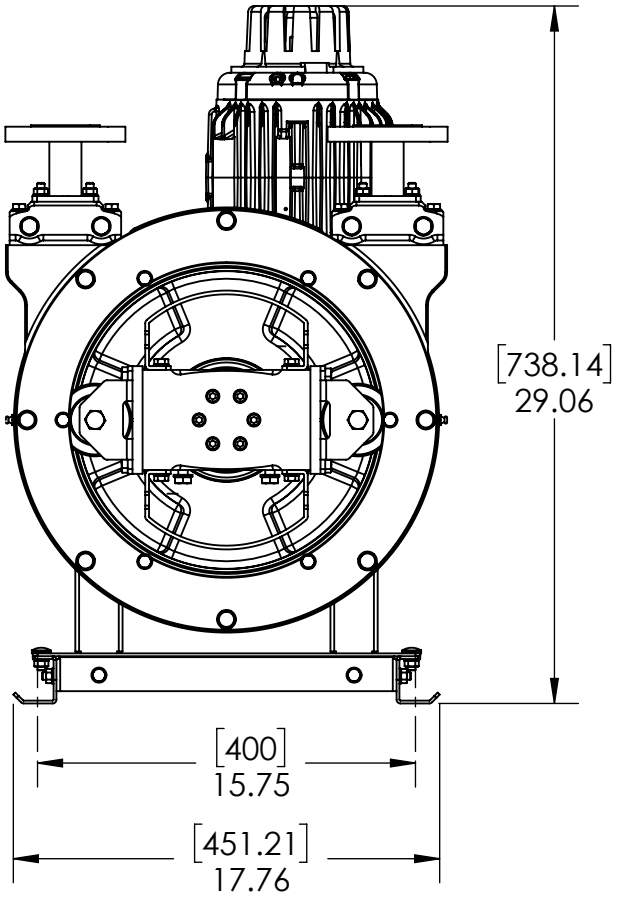

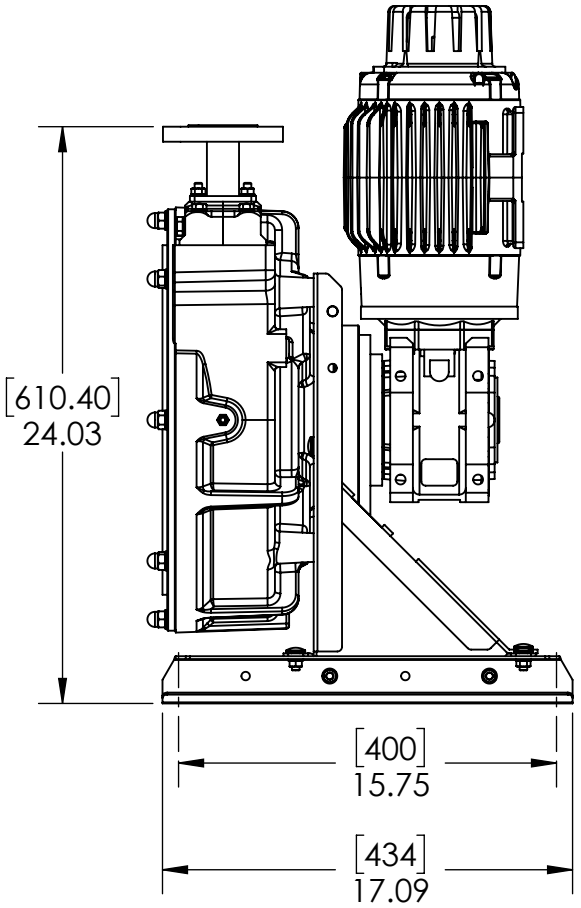

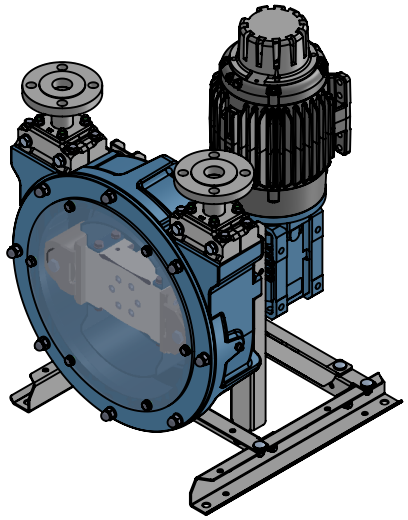

Drawing Notes:

- Right Angle Worm Gear Reducer: 120 PSI (8 Bar) Max, Refer To Pump Data Sheets For Gearbox & Motor Selection.
- Inverter Duty Motor Depicted.
- Inlet/Outlet Verticle Facing (position 3).

Model: M34-A Position 3

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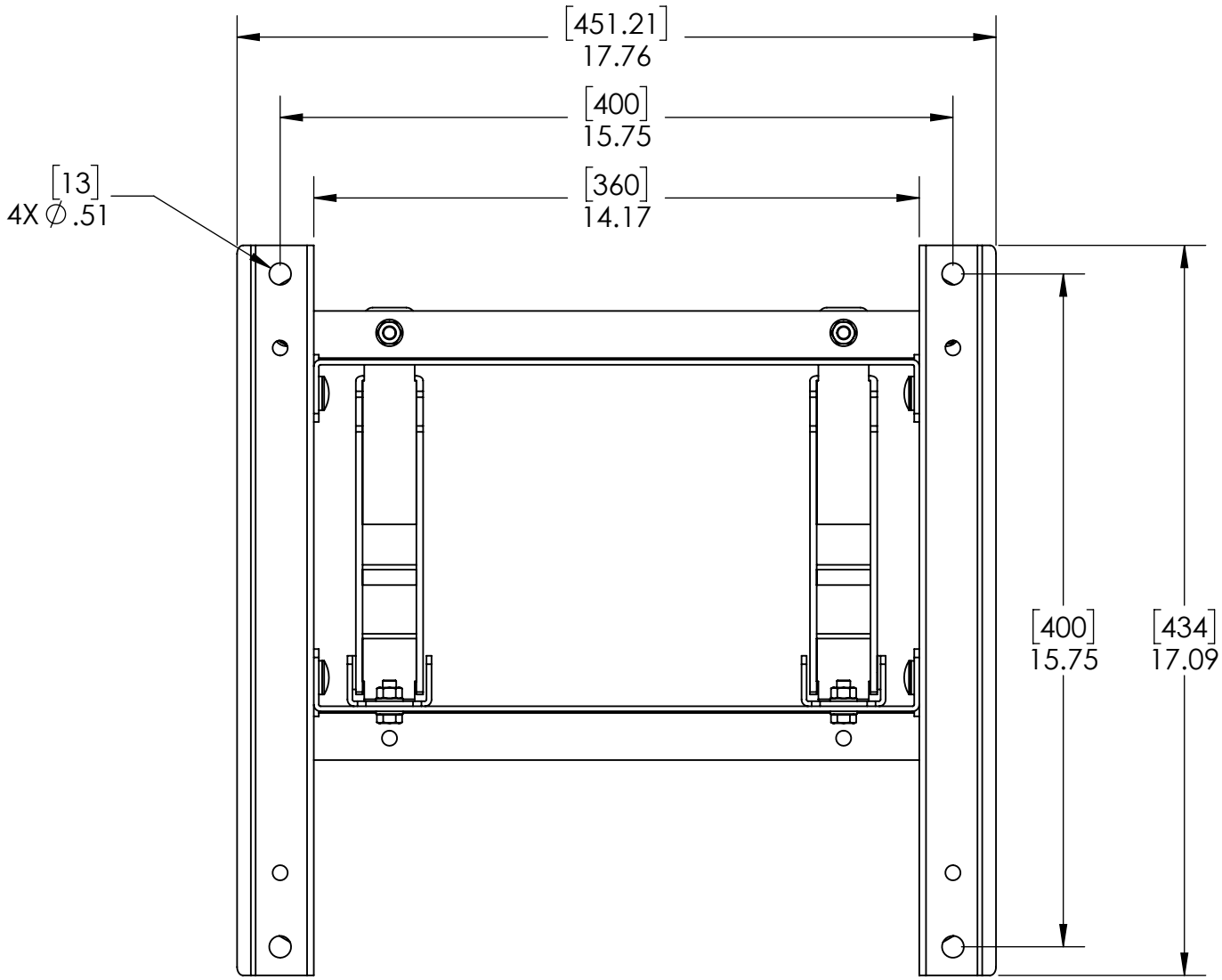
Dimension: Inches / (XX) MM

5 4 3 2 1



Drawing Notes:

- Right Angle Worm Gear Reducer: 120 PSI (8 Bar) Max, Refer To Pump Data Sheets For Gearbox & Motor Selection.
- Inverter Duty Motor Depicted.
- Inlet/Outlet Right Facing (position 1).

Model: M34-A1

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5 4 3 2 1

Call Toll Free **800.900.PUMP**
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Pump it, Don't Dump it!™

900-Series Peristaltic Pump / M34 – 2HP Specifications

Standard Performance:

Volume……18 GPM / 68 LPM
Dry Suction Lift……29ft / 8.8 m
Vacuum Rating……29 Hg / -.9.5 bar
Discharge Head……103 ft / 31 m
Discharge Pressure……60 Psi / 4.0 bar

Maximum Performance:

Volume……32 GPM / 121 LPM
Dry Suction Lift ……29 ft / 8.8 m
Vacuum Rating……29 Hg / -.9.5 bar
Discharge Head ……550 ft / 161 m
Discharge Pressure……240 Psi / 16 bar

Standard Features:

2-HP TEFC Baldor Electric Motor
316 – Stainless Steel Pump Frame
Aluminum Pump Housing (Epoxy Coated)
Clear Acrylic Viewing Window
Oil Free Pump Housing
Factory Installed Suction & Discharge Plumbing
Direct Drive, Maintenance Free Gearbox
Leak Detection with Auto Pump Shutdown
Integrated Vacuum Relief Valve
NEMA 4X Control Panel
Textile Reinforced Internal Hose Element
Integrated Solid State Adjustable Run-Timer
NEMA 4X Hour Meter

Optional Features:

UL Listed NEMA 4X Control Panel
Variable Speed Pump Controller
Explosion Proof Leak Detector
Explosion Proof Electric Motor
Main Power Disconnect Switch
Fiberglass, Stainless or Aluminum Pump Enclosure
MarineSync Remote Monitoring
Extended Warranty

Dimensions:

Pump – 24"x25"x36" @ 300lbs
Fiberglass Enclosure – 40"x40"x45" @ 35lbs

Applications:

- Marine / Recreational PumpOuts
- Bilge PumpOuts
- Forward Lift Stations

Design Consideration:

-Pump body shall be constructed of cast aluminum.

- Pump frame shall be constructed of 316 stainless steel.

- Pump body shall NOT be filled with a lubricant bath.

- Pump shall be equipped with a direct drive gearbox (Belts, pulleys or couplers shall NOT be accepted)

- Pump shall be equipped with a natural rubber or nitrile internal hose with an inside diameter of 32mm.

- Pump shall be equipped with two hi-efficiency rollers that gradually compress the elastomeric peristaltic hose.

- Pump rollers shall feature permanently sealed stainless steel bearings with double lipped oil seals.

- Pump rotor shall be supported by double-shaft bearings protected by double lipped oil seals.

- Peristaltic hose and rollers shall be visible through a 12" clear acrylic site window.

- Pump shall be equipped with suction & discharge plumbing manifolds with unions for quick disconnect.

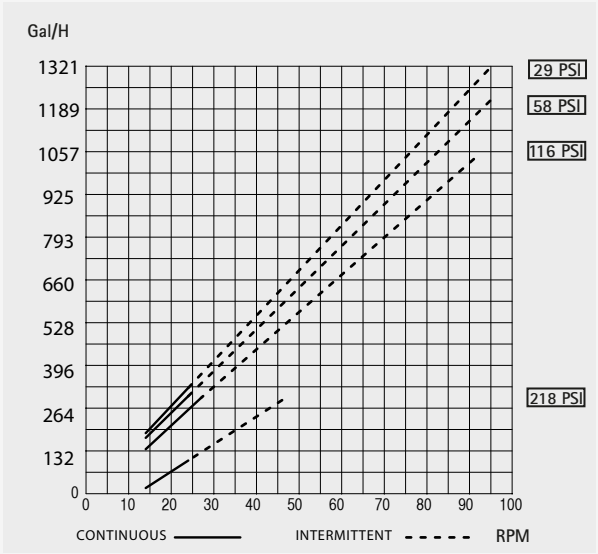
- Pump shall include a vacuum gauge and ball valve on the suction manifold for isolating and testing.

-Leak detection shall instantly disable motor if the peristaltic hose ruptures.

- Pump shall come equipped with an electronic hour meter, displaying hours and decimal hours.

Low Pressure						
RPM	Gal/H	Lt/H	Pressure		HP	Kw
			PSI	BAR		
14	182	687	58	4	1	0.8
18	236	893	58	4	1	0.8
24	317	1201	58	4	1	0.8
29	385	1457	58	4	1	0.8
36	480	1817	58	4	2	1.5
48	643	2433	58	4	2	1.5
57	765	2894	58	4	2	1.5
71	954	3613	58	4	2	1.5
95	1280	4845	58	4	3	2.2

Medium Pressure						
RPM	Gal/H	Lt/H	Pressure		HP	Kw
			PSI	BAR		
14	178	673	116	8	1	0.75
15	191	723	116	8	1	0.75
17	218	824	116	8	1	0.75
19	244	924	116	8	1	0.75
21	271	1025	116	8	1	0.75
27	350	1326	116	8	1	0.75
30	390	1477	116	8	2	1.5
31	404	1528	116	8	2	1.5
35	457	1729	116	8	2	1.5
39	510	1930	116	8	2	1.5
44	576	2181	116	8	2	1.5
48	629	2382	116	8	2	1.5
57	749	2835	116	8	2	1.5
63	829	3137	87	6	2	1.5
71	963	3644	87	6	2	1.5
78	1058	4004	87	6	3	2.2
91	1234	4671	87	6	3	2.2



High Pressure						
RPM	Gal/H	Lt/H	Pressure		HP	Kw
			PSI	BAR		
14	137	520	174	12	1	0.75
15	150	566	174	12	1	0.75
17	174	659	174	12	1	0.75
19	198	751	174	12	2	1.5
21	223	843	174	12	2	1.5
27	296	1120	174	12	2	1.5
30	332	1258	174	12	2	1.5
31	345	1304	174	12	2	1.5
35	393	1489	174	12	2	1.5
39	442	1673	174	12	2	1.5
44	503	1904	174	12	3	2.2
48	552	2088	145	10	3	2.2
57	661	2503	145	10	3	2.2
63	734	2780	116	8	3	2.2
71	790	2992	116	8	3	2.2
78	876	3315	87	6	3	2.2
91	1034	3914	87	6	3	2.2

Max Pressure						
RPM	Gal/H	Lt/H	Pressure		HP	Kw
			PSI	BAR		
14	171	646	232	16	1	0.75
15	183	692	232	16	1	0.75
17	207	784	232	16	2	1.5
19	231	876	232	16	2	1.5
22	268	1014	232	16	2	1.5
24	292	1107	232	16	2	1.5
28	341	1291	232	16	2	1.5
30	365	1383	232	16	2	1.5
35	426	1614	232	16	3	2.2
39	475	1798	232	16	3	2.2
46	560	2121	232	16	3	2.2
50	609	2306	203	14	3	2.2
57	694	2628	174	12	3	2.2
63	767	2905	116	8	3	2.2
72	877	3320	116	8	3	2.2

Variable Speed Low Pressure										
RPM		Gal/H		Lt/H		Pressure		HP	Kw
Min	Max	Min	Max	Min	Max	PSI	BAR		
2	10	17	127	66	482	58	4	1	0.75
2	12	24	154	92	585	58	4	1	0.75
3	16	35	209	133	790	58	4	1	0.75
4	19	43	249	164	944	58	4	1	0.75
5	24	57	317	215	1201	58	4	1	0.75
6	32	77	426	292	1611	58	4	1	0.75
8	40	95	534	359	2022	58	4	2	1.5
10	50	121	670	456	2535	58	4	2	1.5
13	67	164	900	621	3408	58	4	2	1.5
19	100	249	1348	944	5102	29	2	2	1.5

Variable Speed High Pressure									
RPM		Gal/H		Lt/H		Pressure		HP	Kw
Min	Max	Min	Max	Min	Max	PSI	BAR		
1.8	9	24	120	91	453	116	8	1	0.75
2	10	27	133	101	503	116	8	1	0.75
2.3	12	31	159	116	603	116	8	1	0.75
2.6	13	35	173	131	654	116	8	1	0.75
2.8	14	37	186	141	704	116	8	1	0.75
3.6	18	48	239	181	905	116	8	1	0.75
4	20	53	266	201	1006	116	8	1	0.75
4.2	21	56	279	211	1056	116	8	1	0.75
4.7	25	62	332	236	1257	116	8	2	1.5
5.3	28	70	372	267	1408	116	8	2	1.5
5.8	31	77	412	292	1559	116	8	2	1.5
6.4	34	85	452	322	1710	116	8	2	1.5
7.6	40	101	531	382	2011	116	8	2	1.5
8.4	44	112	585	422	2213	116	8	2	1.5
9.5	50	126	664	478	2514	116	8	3	2.2
10.5	55	139	731	528	2766	87	6	3	2.2
12.2	64	162	850	613	3218	87	6	3	2.2
13.6	71	181	943	684	3570	58	4	3	2.2