

Pump Performance Testing Report

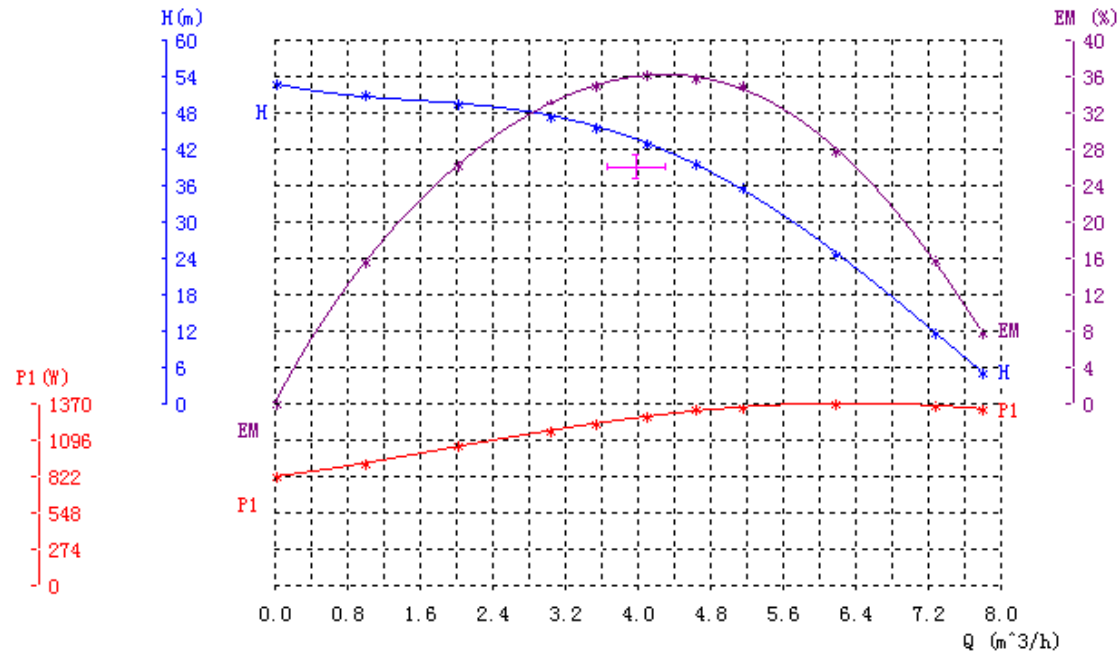
Product Mode:SCM5-0.9
Product Number:2017112901

Fluid Density(kg/m³): Clean Water
Fluid Viscosity(cSt): Clean Water

Flow Meter Coefficient(f/1):323.2911
Outlet Height above Reference Plane(m):1.8

Inlet Diameter(m):0.10
Outlet Diameter(m):0.040

No.	Measured Data					Calculated Data					Data converted to specified speed of 2850(r/min)			
	Inlet Pressure (kPa)	Outlet Pressure (kPa)	Flow Rate (m ³ /h)	Rotate Speed (r/min)	Motor Power Input (W)	Pump Power Input (W)	Velocity Head (m)	Total Head (m)	Pump Power Output (W)	Overall Efficiency (%)	Flow Rate (m ³ /h)	Head (m)	Pump Power Input (W)	Pump Efficiency (%)
1	0.00	518.65	0.00	2904.00	817.30	---	0.00	54.69	0.00	0.00	0.00	52.67	---	---
2	0.00	491.42	1.00	2882.80	912.55	---	0.00	51.91	141.42	15.50	0.99	50.74	---	---
3	0.00	470.81	2.02	2860.59	1048.99	---	0.01	49.82	274.14	26.13	2.01	49.45	---	---
4	0.00	439.77	3.01	2829.81	1161.37	---	0.02	46.67	382.64	32.95	3.03	47.33	---	---
5	0.00	418.19	3.50	2821.22	1213.89	---	0.03	44.47	424.03	34.93	3.54	45.39	---	---
6	0.00	390.19	4.02	2807.69	1263.02	---	0.04	41.63	455.86	36.09	4.08	42.89	---	---
7	0.00	354.78	4.54	2793.51	1316.02	---	0.05	38.03	470.31	35.74	4.63	39.58	---	---
8	0.00	315.45	5.04	2783.80	1340.40	---	0.06	34.03	467.21	34.86	5.16	35.67	---	---
9	0.00	208.81	6.00	2773.90	1364.45	---	0.09	23.18	378.90	27.77	6.16	24.47	---	---
10	0.00	89.68	7.08	2774.10	1354.47	---	0.12	11.07	213.49	15.76	7.27	11.68	---	---
11	0.00	28.63	7.62	2784.56	1322.96	---	0.14	4.86	100.97	7.63	7.80	5.10	---	---



Rated Point: Flow = 4.00 (m³/h)
Cross Point: Flow = 4.28 (m³/h)
Tolerance: Flow = 17.10 (%)

Head = 39.00 (m)
Head = 41.76 (m)
Head = 11.34 (%)

Pump Efficiency = 29.28 (%)
Overall Efficiency = 36.14 (%)
Efficiency = 23.42 (%)

Tester:

Testing Date: 2017-11-29

Pump Performance Testing Report

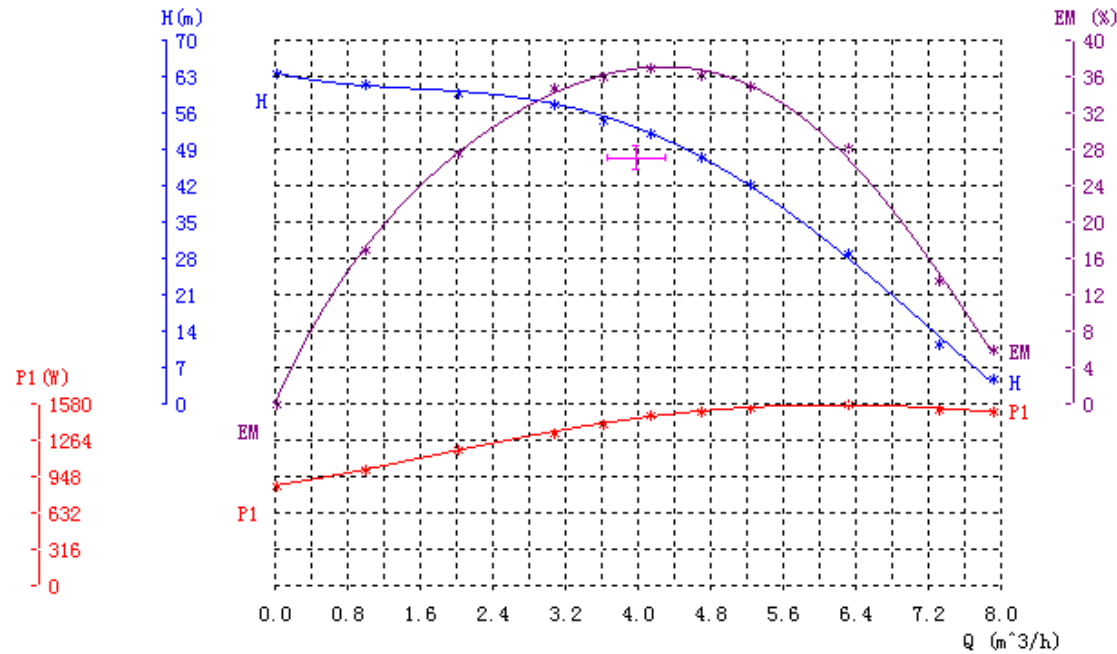
Product Mode:SCM6-1.1
Product Number:2017112903

Fluid Density(kg/m³): Clean Water
Fluid Viscosity(cSt): Clean Water

Flow Meter Coefficient(f/1):323.2911
Outlet Height above Reference Plane(m):1.8

Inlet Diameter(m):0.10
Outlet Diameter(m):0.040

No.	Measured Data					Calculated Data					Data converted to specified speed of 2850(r/min)			
	Inlet Pressure (kPa)	Outlet Pressure (kPa)	Flow Rate (m ³ /h)	Rotate Speed (r/min)	Motor Power Input (W)	Pump Power Input (W)	Velocity Head (m)	Total Head (m)	Pump Power Output (W)	Overall Efficiency (%)	Flow Rate (m ³ /h)	Head (m)	Pump Power Input (W)	Pump Efficiency (%)
1	0.00	624.04	0.00	2894.93	861.53	---	0.00	65.43	0.00	0.00	0.00	63.42	---	---
2	0.00	593.02	1.00	2866.68	1007.38	---	0.00	62.27	169.64	16.84	0.99	61.55	---	---
3	0.00	562.96	2.00	2835.96	1169.22	---	0.01	59.21	322.62	27.59	2.01	59.80	---	---
4	0.00	528.51	3.02	2800.63	1323.38	---	0.02	55.71	458.36	34.64	3.07	57.70	---	---
5	0.00	494.04	3.53	2786.90	1401.47	---	0.03	52.21	502.04	35.82	3.61	54.60	---	---
6	0.00	466.53	4.03	2775.42	1471.74	---	0.04	49.41	542.46	36.86	4.14	52.10	---	---
7	0.00	415.26	4.53	2755.84	1514.83	---	0.05	44.20	545.38	36.00	4.68	47.27	---	---
8	0.00	364.55	5.04	2744.32	1533.22	---	0.06	39.04	535.95	34.96	5.23	42.10	---	---
9	0.00	243.24	6.05	2736.33	1570.26	---	0.09	26.69	439.95	28.02	6.30	28.96	---	---
10	0.00	86.43	7.05	2751.19	1526.16	---	0.12	10.74	206.20	13.51	7.30	11.52	---	---
11	0.00	23.01	7.65	2757.40	1506.24	---	0.15	4.29	89.44	5.94	7.91	4.59	---	---



Rated Point: Flow = 4.00 (m³/h)
Cross Point: Flow = 4.31 (m³/h)
Tolerance: Flow = 18.24 (%)

Head = 47.00 (m)
Head = 50.63 (m)
Head = 12.51 (%)

Pump Efficiency = 29.28 (%)
Overall Efficiency = 36.99 (%)
Efficiency = 26.33 (%)

Tester:

Testing Date: 2017-11-29

Pump Performance Testing Report

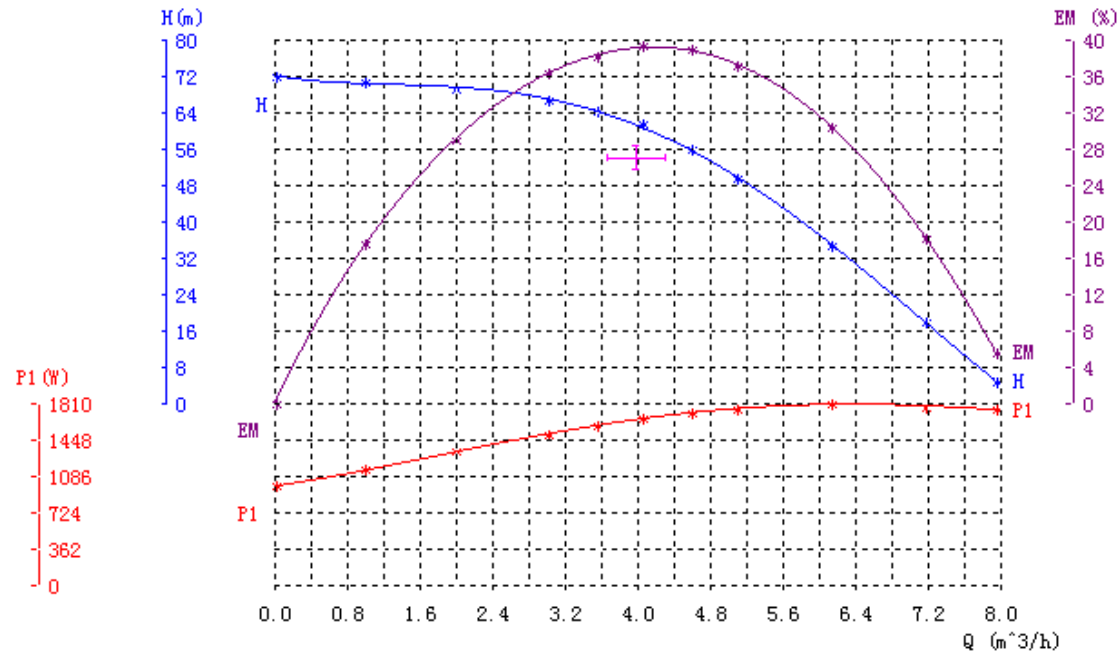
Product Mode:SCM7-1.5
Product Number:2017112905

Fluid Density(kg/m³): Clean Water
Fluid Viscosity(cSt): Clean Water

Flow Meter Coefficient(f/1):323.2911
Outlet Height above Reference Plane(m):1.8

Inlet Diameter(m):0.10
Outlet Diameter(m):0.040

No.	Measured Data					Calculated Data					Data converted to specified speed of 2850(r/min)			
	Inlet Pressure (kPa)	Outlet Pressure (kPa)	Flow Rate (m ³ /h)	Rotate Speed (r/min)	Motor Power Input (W)	Pump Power Input (W)	Velocity Head (m)	Total Head (m)	Pump Power Output (W)	Overall Efficiency (%)	Flow Rate (m ³ /h)	Head (m)	Pump Power Input (W)	Pump Efficiency (%)
1	0.00	721.48	0.00	2919.04	982.99	---	0.00	75.37	0.00	0.00	0.00	71.85	---	---
2	0.00	697.44	1.01	2894.01	1144.49	---	0.00	72.92	200.63	17.53	0.99	70.72	---	---
3	0.00	669.73	2.01	2870.38	1324.11	---	0.01	70.10	383.84	28.99	2.00	69.11	---	---
4	0.00	632.69	3.01	2843.91	1496.34	---	0.02	66.34	543.94	36.35	3.02	66.62	---	---
5	0.00	602.13	3.52	2831.77	1587.34	---	0.03	63.23	606.31	38.20	3.54	64.05	---	---
6	0.00	568.83	4.00	2815.26	1663.45	---	0.04	59.84	652.08	39.20	4.05	61.33	---	---
7	0.00	511.41	4.52	2808.06	1707.44	---	0.05	54.00	664.89	38.94	4.59	55.62	---	---
8	0.00	450.18	5.01	2802.93	1755.46	---	0.06	47.77	651.92	37.14	5.09	49.39	---	---
9	0.00	307.94	6.01	2792.05	1804.10	---	0.09	33.29	545.03	30.21	6.13	34.69	---	---
10	0.00	146.45	7.02	2786.97	1771.76	---	0.12	16.86	322.35	18.19	7.18	17.63	---	---
11	0.00	25.67	7.78	2790.12	1745.97	---	0.15	4.57	96.82	5.55	7.95	4.77	---	---



Rated Point: Flow = 4.00 (m³/h)
Cross Point: Flow = 4.31 (m³/h)
Tolerance: Flow = 18.24 (%)

Head = 54.00 (m)
Head = 58.24 (m)
Head = 12.91 (%)

Pump Efficiency = 29.28 (%)
Overall Efficiency = 39.10 (%)
Efficiency = 33.52 (%)

Tester:

Testing Date: 2017-11-29