



DeatschWerks has performed extensive testing of their fuel pumps at a wide range of pressures and voltages. This data characterizes the performance of the pump over all possible operating conditions. Pump characterization data can be especially useful to customers designing demand-regulated returnless fuel systems. Only DW offers such extensive data.

Data from each pump model is contained in its own tab within this excel document.

All DW pumps are rated at 13.5v@40psi. On each tab, this data has been highlighted in **orange** for easy identification.

PRV activation can be influenced by voltage. Therefore, PRV activation point data has also been included for each pump.

Contact techsupport@deatschwerks.com for further assistance in application of this data.



DW100 Fuel Pump Characterization

PN: 9-101

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	1.9	2.1	2.5	3.0	3.4	3.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	
FLOW	174	158	131	110	88	60	19	0	0	0	0	0	0	NA

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	2.5	2.6	3.1	3.5	3.9	4.3	4.7	5.1	5.5	0.0	0.0	0.0	0.0	
FLOW	214	201	177	157	135	117	95	69	31	0	0	0	0	NA

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	3	3.2	3.6	3.9	4.2	4.6	5.0	5.4	5.8	6.2	6.6	0.0	0.0	
FLOW	238	226	204	180	165	140	120	100	80	55	25	0	0	NA

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	3.1	3.4	3.8	4.2	4.5	4.9	5.3	5.7	6.1	6.5	6.9	0.0	0.0	
FLOW	253	240	218	198	179	160	143	125	105	80	43	0	0	NA

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	3.9	4.1	4.5	4.9	5.2	5.7	6.0	6.4	6.7	7.1	7.5	7.8	7.8	
FLOW	289	281	262	242	226	208	188	170	152	131	111	82	82	105

18 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	4.6	4.8	5.1	5.5	5.9	6.2	6.6	6.9	7.3	7.7	8.1	8.4	8.4	
FLOW	324	315	295	274	258	241	224	206	189	170	149	123	123	95

NOTES
 This pump is not recommended for use above 18 volts. Use at higher voltages may result in pump failure.
 Tested 12-4-18
 PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.



DW200 Fuel Pump Characterization

PN: 9-201

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	4.6	4.8	5.4	5.9	6.5	7.0	7.5	8.3	8.9	9.5	10.1	10.6	11.2	
FLOW	230	212	192	172	153	136	120	100	65	60	45	27	12	NA

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	6.1	6.2	6.7	7.2	7.9	8.3	8.9	9.6	10.2	10.7	11.4	11.9	12.4	
FLOW	281	260	236	218	202	185	170	156	142	128	113	92	79	NA

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	7.5	7.6	8.1	8.6	9.2	9.7	10.4	10.9	11.6	11.9	12.7	13.1	13.6	
FLOW	315	301	278	265	255	240	225	210	190	170	155	140	125	130

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	7.7	7.8	8.2	8.8	9.3	9.9	10.6	11.2	11.8	12.1	12.9	13.3	13.8	
FLOW	323	307	288	270	255	240	224	207	194	180	165	151	137	130

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	9.2	9.1	9.4	9.7	10.3	10.9	11.6	12.1	12.6	12.9	13.5	14.0	14.6	
FLOW	16	356	337	321	306	291	275	261	245	232	218	207	192	125

18 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10.6	10.3	10.7	10.7	11.3	12.0	12.6	13.0	13.5	13.8	14.3	14.7	15.4	
FLOW	418	400	378	356	340	334	322	305	290	273	259	244	234	125

Notes

This pump is not recommended for use above 18 volts. Use at higher voltages may result in pump failure.

Tested 12-4-18

PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.



DW65c Fuel Pump Characterization

PN: 9-651, 9-652

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	7	6.9	7.4	7.9	8.5	9.1	9.8	10.4	11.0	11.7	12.4	13.2	13.8	
FLOW	244	224	203	186	170	152	142	122	101	84	63	40	5	115

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	8.5	8.5	9.1	9.6	10.1	10.6	11.2	11.8	12.4	13.1	13.7	14.3	14.3	
FLOW	289	273	259	241	226	211	201	181	159	143	126	107	5	115

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	9.5	9.8	10.3	10.8	11.4	11.9	12.6	13.2	13.8	14.2	14.6	15.2	15.4	
FLOW	324	314	296	280	265	250	235	220	210	190	170	158	0	115

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10	10.3	10.8	11.2	11.7	12.2	12.7	13.2	13.8	14.4	15.0	15.6	15.6	
FLOW	333	325	308	292	277	261	252	231	211	194	178	159	0	115

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	11.7	11.9	12.4	12.9	13.4	13.9	14.3	14.8	15.4	16.0	16.6	17.1	17.1	
FLOW	370	367	351	337	324	308	299	279	259	242	227	204	0	115

18 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	13.4	14.1	14.6	15.1	15.8	16.2	16.6	17.2	17.7	18.1	18.7	18.7	18.7	
FLOW	411	412	397	385	373	357	348	329	307	292	271	0	0	105

NOTES

This pump is not recommended for use above 18 volts. Use at higher voltages may result in pump failure.

Tested 12-17-18

PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.



DW65v Fuel Pump Characterization

PN: 9-654, 9-655

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	4.9	5.3	5.6	6.4	7.2	8.0	8.8	9.6	10.3	11.1	11.8	12.2	12.2	
FLOW	229	215	194	169	148	126	104	81	56	37	18	2.5	0	open

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	6.6	7.1	7.3	7.9	8.7	9.5	10.2	11.0	11.6	12.2	12.9	13.6	14.2	
FLOW	282	272	255	235	216	197	177	158	143	120	110	97	84	160

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	7.9	8.5	8.7	10.0	10.5	11.2	11.5	12.2	12.7	13.4	14.1	15.1	15.6	
FLOW	317	319	299	280	265	250	235	215	200	180	165	152	137	160

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	8.5	8.9	9.7	10.4	11.2	11.9	12.7	13.3	13.9	14.4	15.0	15.6	16.3	
FLOW	331	327	319	292	274	256	245	227	211	192	176	163	147	160

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10.4	11.0	11.4	12.4	13.0	13.8	14.5	15.1	15.7	16.4	17.0	17.7	18.3	
FLOW	369	372	351	335	315	300	289	273	257	240	227	211	197	160

18 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	12.9	13.1	13.8	14.5	15.1	16.1	16.7	17.2	18.2	18.8	19.4	20.2	20.7	
FLOW	411	409	395	378	365	355	336	321	315	301	284	268	254	160

NOTES

This pump is not recommended for use above 18 volts. Use at higher voltages may result in pump failure.

Tested 12-3-18

PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.



DW300 Fuel Pump Characterization

PN: 9-301

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	6.9	6.9	7.5	8.2	8.8	9.4	10.1	10.7	11.3	11.9	12.6	12.6	12.6	
FLOW	324	295	269	247	223	201	174	152	126	85	47	47	47	NA

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	8.6	8.8	9.3	9.9	10.5	11.1	11.8	12.5	13.2	15.8	14.4	14.9	15.7	
FLOW	378	354	331	311	290	270	247	228	208	185	156	112	70	NA

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10	10.4	11.0	11.2	11.7	12.3	12.9	13.5	14.1	14.7	15.4	16.7	17.3	
FLOW	440	419	397	360	340	320	295	275	260	240	220	179	154	125

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10.5	11.2	11.7	12.3	12.8	13.3	14.0	14.5	15.2	15.7	16.4	17.2	17.9	
FLOW	428	420	400	382	364	348	328	313	296	279	252	224	196	125

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	12.7	13.5	13.9	14.5	14.9	15.3	15.8	16.3	16.8	17.4	17.9	18.5	19.2	
FLOW	479	475	454	438	421	407	389	376	366	346	326	294	261	125

18 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	14.8	14.9	15.5	15.9	16.5	17.0	17.4	17.9	18.5	19.0	19.4	20.0	20.8	
FLOW	509	507	494	480	465	458	440	429	426	413	388	355	330	125

20 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	16.7	16.3	17.0	17.5	18.2	18.9	19.4	20.1	20.6	21.2	21.6	22.2	22.9	
FLOW	518	513	506	503	504	502	493	489	486	472	453	425	378	120

NOTES

This pump is not recommended for use above 20 volts. Use at higher voltages may result in pump failure.
 PRV did not open at 10v and 12v.
 Tested 12-4-18
 PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.



DW300c Fuel Pump Characterization

PN: 9-307, 9-309

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	6.2	6.5	7.2	7.8	8.5	9.2	9.9	10.6	11.2	11.9	12.7	13.4	14.2	
FLOW	322	305	275	254	232	208	185	163	145	123	104	82	57	NA

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	8.1	8.4	8.9	9.7	10.3	11.0	11.6	12.3	13.0	13.6	14.2	14.9	15.5	
FLOW	378	357	334	315	293	273	252	232	210	190	172	151	131	NA

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	9.6	9.7	10.6	11.2	11.7	12.3	12.9	13.5	14.1	14.7	15.4	16.2	16.8	
FLOW	411	396	379	360	340	320	295	275	260	240	220	195	176	125

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10.2	10.3	10.9	11.5	12.1	12.8	13.4	14.1	14.6	15.3	16.0	16.7	17.4	
FLOW	422	408	387	368	349	327	308	287	270	249	229	210	190	125

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	12	12.6	13.3	13.9	14.6	15.1	15.7	16.2	16.8	17.3	18.0	18.7	19.1	
FLOW	461	458	445	428	408	389	372	352	336	315	296	273	251	125

NOTES

This pump is not recommended for use above 16 volts. Use at higher voltages may result in pump failure.

Tested 12-4-18

PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.



DW300m Fuel Pump Characterization

PN: 9-305

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	5.9	6.1	6.9	7.5	8.2	9.0	9.7	10.4	11.1	11.9	12.7	13.4	14.2	
FLOW	330	293	267	242	219	196	172	148	128	107	87	67	44	NA

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	7.6	8.0	8.7	9.4	10.0	10.7	11.4	12.0	12.8	13.8	14.6	15.3	15.9	
FLOW	375	357	330	306	285	266	243	222	200	180	157	138	119	NA

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	9.4	9.5	10.2	10.7	11.2	11.8	12.4	13.1	13.7	14.2	14.9	16.4	17.2	
FLOW	390	390	372	355	340	315	290	270	250	230	210	188	167	125

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	9.8	10.3	10.7	11.4	11.9	12.6	13.2	13.7	14.6	15.1	15.6	16.7	17.4	
FLOW	391	392	381	365	343	324	307	285	268	245	225	203	182	125

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	10.6	11.9	12.7	13.4	14.2	14.5	15.1	15.6	16.3	16.9	17.4	18.2	19.0	
FLOW	316	327	376	377	377	372	353	335	322	299	279	259	242	125

NOTES														
This pump is not recommended for use above 16 volts. Use at higher voltages may result in pump failure.														
Tested 12-4-18														
PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.														



DW400 Fuel Pump Characterization

PN: 9-401, 9-402, 9-403

Flow and Amps VS Voltage and Pressure

10 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	9.3	9.7	10.6	11.6	12.4	13.1	13.9	14.8	15.4	16.4	17.1	17.8	18.5	
FLOW	385	365	334	310	289	270	251	231	215	197	179	160	140	125

12 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	11.9	12.3	13.1	13.9	14.7	15.4	16.0	16.8	17.3	18.4	19.1	19.9	20.6	
FLOW	447	433	407	383	361	342	323	303	288	271	253	238	218	125

13.5 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	14.0	14.2	15.1	15.8	16.5	17.0	17.7	18.6	19.3	20.1	20.8	21.6	22.4	
FLOW	505	483	457	440	415	405	390	370	350	340	320	290	275	125

14 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	14.7	15.0	15.8	16.6	17.2	17.7	18.3	19.1	19.7	20.7	21.4	22.3	23.1	
FLOW	517	500	478	455	436	416	399	377	362	342	325	309	291	125

16 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	17.6	18.0	18.6	19.3	20.1	20.6	21.1	21.8	22.4	23.4	24.2	25.0	25.7	
FLOW	586	569	549	530	510	493	476	455	437	417	402	385	369	130

18 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	20.9	21.1	21.7	22.4	23.2	23.6	24.2	24.8	25.3	26.4	27.1	27.9	28.7	
FLOW	651	642	623	602	585	568	552	531	514	490	474	455	438	130

20 volts														
PSI	0	10	20	30	40	50	60	70	80	90	100	110	120	PRV
AMP	24.1	24.5	25.0	25.7	26.5	26.9	27.3	28.1	28.5	29.5	30.2	30.9	31.7	
FLOW	712	712	693	674	659	640	625	602	588	563	541	525	507	130

NOTES
 This pump is not recommended for use above 20 volts. Use at higher voltages may result in pump failure.
 Tested 12-17-18
 PRV = pressure release valve. An integrated safety device on all in-tank pumps. Pump output significantly decreases upon activation of PRV. Working pressure should be kept below PRV activation point.