

FIRE PUMPS MAXIMUM ALLOWABLE WORKING PRESSURE

Section 910 Page 71
Date July 2009
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Dated June 2007

The data shown is listed in the current Fire Protection Equipment Directory of U.L. and is consistent with the requirements of F.M.

1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

DI = Ductile Iron construction

RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
250	2.5"-1823BF	51-115	2950/3000	250
250	2.5"-1843BF	51-115	2950	250
250	2.5"-1823BF	52-167	3550/3560	250
250	2.5"-1843BF	52-167	3560	250
250	3"-1824F	40-120	2950/3000	210
250	3"-1824HF	40-120	2950/3000	450
250	3"-1844F	40-120	2950	210
250	3"-1824F	40-100	3550/3560	210
250	3"-1824HF	40-100	3550/3560	450
250	3"-1844F	40-100	3560	210
500	3"-1824F	50-150	3550/3560	210
500	3"-1844F	50-150	3560	210
500	3"-1824HF	50-150	3550/3560	450
500	3"-2874AF	46 - 101	3000	588
500	3"-2874AF	55 - 125	3300	588
500	3"-2874CF	95 - 140	3550/3560	588
500	3"-5876AF	125 - 165	3550/3560	254
500	4"-1823AF	40-55	1750/1770	270
500	4"-1843AF	40-55	1770	270
500	4"-1823CF	55-134	2950/3000	275
500	4"-1843CF	55-134	2950	275
500	4"-1823CHF	55-134	2950/3000	500
500	4"-1823CF	75-180	3300	275
500	4"-1823CHF	75-180	3300	500
500	4"-1823DF	61-138	2950/3000	275
500	4"-1843DF	61-138	2950/3000	275
500	4"-1824F	60-80	1750/1770	200
500	4"-1844F	60-80	1770	200
500	4"-1922F	150-210	1750/1770	270
500	4"-5876F	110 - 170	3550/3560	436
500	4"-5823F	45 - 75	1750/1770	175
500	4"-5824F	76 - 125	1750/1770	175
500	5"-1924F	182-319	2950	625
500	5"-1924F	188-330	3000	625
500	5"-1924F	228-476	3560	625
500	5"-1922F	68-144	1460/1480	270
500	6"-1923F	163-215	1760	600
500	6"-1923F	166-220	1780	600
500	6"-1923F	215-402	2350	600
500	6"-1923F	243-431	2950	600
500	6"-2876AF	97 - 140	2600	425
500	6"-2876AF	149 - 164	2800	425
500	6"-2876AF	157 - 190	2950/3000	425
500	6"-2876AF	163 - 233	3300	425
500	6"-2876AF	191 - 278	3550/3560	425
750	4"-1823AF	40-50	1750/1770	270
750	4"-1843AF	40-50	1770	270
750	4"-1823CHF	66-164	3300	500
750	4"-1823CF	66-164	3300	275

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1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

DI = Ductile Iron construction

RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
750	4"-1823CF	65-192	3550/3560	275
750	4"-1843CF	65-192	3560	275
750	4"-1823CHF	65-192	3550/3560	500
750	4"-1824F	71-95	1750/1770	200
750	4"-1823DF	81-190	3550/3560	275
750	4"-1843DF	81-190	3550/3560	275
750	4"-1844F	71-95	1770	200
750	4"-2876AF	225	3550/3560	363
750	4"-2876AF	100 - 143	3550/3560	363
750	4"-2876AF	100 - 150	2950/3000	363
750	4"-2876AF	100 - 185	3300	363
750	4"-2876AF	144 - 221	3550/3560	363
750	4"-2876CF	140 - 175	3300	363
750	4"-2876CF	145 - 200	3550/3560	363
750	4"-2823CF	55 - 90	1750/1770	396
750	4"-2823CF	60 - 130	2100	396
750	4"-2823CF	75 - 160	2300	396
750	4"-2873AF	67 - 78	2950/3000	225
750	4"-5824F	100 - 125	1750/1770	175
750	5"-1822CF	105-154	2950/3000	325
750	5"-1842CF	105-154	2950	325
750	5"-1822CHF	105-154	2950/3000	450
750	5"-1823F	50-70	1750/1770	210
750	5"-1843F	50-70	1770	210
750	5"-2824AF	115 - 240	2300	345
750	5"-2824AF	90 - 140	1750/1770	345
750	5"-2824AF	95 - 200	2100	345
750	5"-5922F	125 - 180	1750/1770	180
750	6"-1924F	197-340	2950	625
750	6"-1924F	205-352	3000	625
750	6"-1924F	310-506	3560	625
750	6"-1923F	154-206	1760	600
750	6"-1923F	158-211	1780	600
750	6"-1923F	183-242	1900	600
750	6"-1923F	229-300	2100	600
750	6"-1923F	206-390	2350	600
750	6"-1923F	260-413	2600	600
750	6"-1923F	215-340	2800	600
750	6"-1923F	237-421	2950	600
750	6"-1922AF	80-175	1460/1480	330
750	6"-1922AHF	80-175	1460/1480	400
750	6"-1922AF	140-245	1750/1770	330
750	6"-1922AHF	140-245	1750/1770	400
750	6"-2876AF	132 - 148	2800	425
750	6"-2876AF	142 - 175	2950/3000	425
750	6"-2876AF	147 - 218	3300	425
750	6"-2876AF	180 - 266	3550/3560	425
1000	4"-2823CF	95	2100	396
1000	4"-2823CF	100 - 120	2100	396

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The data shown is listed in the current Fire Protection Equipment Directory of U.L. and is consistent with the requirements of F.M.

1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

DI = Ductile Iron construction

RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
1000	4"-2823CF	95 - 150	2300	396
1000	5"-1822BF	145-165	3300	325
1000	5"-1822BHF	145-165	3300	450
1000	5"-1822BF	165-200	3550/3560	325
1000	5"-1842BF	165-200	3560	325
1000	5"-1822BHF	165-200	3550/3560	450
1000	5"-1822CF	90-135	3300	325
1000	5"-1822CHF	90-135	3300	450
1000	5"-1822CF	97-146	2950/3000	325
1000	5"-1842CF	97-146	2950	325
1000	5"-1822CHF	97-146	2950/3000	450
1000	5"-1822CF	90-160	3550/3560	325
1000	5"-1842CF	90-160	3560	325
1000	5"-1822CHF	90-160	3550/3560	450
1000	5"-1823F	50-90	1750/1770	210
1000	5"-1843F	50-90	1770	210
1000	5"-1824F	90-125	1750/1770	210
1000	5"-1844F	90-125	1770	210
1000	5"-2823AF	75 - 125	2100	396
1000	5"-2824AF	110 - 240	2300	345
1000	5"-2824AF	85 - 135	1750	345
1000	5"-2824AF	90 - 200	2100	345
1000	5"-5876F	85 - 120	2950/3000	436
1000	5"-5824F	50 - 125	1750/1770	213
1000	6"-1822F	40-50	1750/1770	200
1000	6"-1822HHF	69-115	2600	500
1000	6"-1822HHF	93-155	2950/3000	500
1000	6"-1822HHF	74-186	3300	500
1000	6"-1822HHF	188-219	3550/3560	500
1000	6"-1823HHF	77-133	2100	500
1000	6"-1823HHF	96-160	2300	500
1000	6"-1823HHF	75-203	2600	500
1000	6"-1823HHF	102-287	2950/3000	500
1000	6"-1823HHF	130-248	3300	500
1000	6"-1823HHF	154-287	3550/3560	500
1000	6"-1824CF	81-108	1460/1480	325
1000	6"-1824CHF	81-108	1460/1480	450
1000	6"-1842F	40-50	1770	200
1000	6"-1844CF	81-108	1480	325
1000	6"-1923F	145-197	1760	600
1000	6"-1923F	149-202	1780	600
1000	6"-1923F	172-231	1900	600
1000	6"-1923F	218-290	2100	600
1000	6"-1923F	195-379	2350	600
1000	6"-1923F	251-403	2600	600
1000	6"-1923F	205-329	2800	600
1000	6"-1923F	228-405	2950	600
1000	6"-1922AF	130-240	1750/1770	330
1000	6"-1922AHF	130-240	1770	400
1000	6"-5922F	144 - 244	1750/1770	246

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1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

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RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
1250	4"-2823CF	116 - 147	2300	396
1250	4"-2823CF	155 - 230	2500	396
1250	4"-2823CF	64 - 84	1750/1770	396
1250	4"-2823CF	94 - 121	2100	396
1250	5"-2824AF	119 - 134	1750/1770	345
1250	5"-2824AF	119 - 193	2100	345
1250	6"-1822HHF	96-110	2600	500
1250	6"-1822HHF	98-151	2950/3000	500
1250	6"-1822HHF	111-182	3300	500
1250	6"-1822HHF	132-216	3550/3560	500
1250	6"-1823HHF	94-130	2100	500
1250	6"-1823HHF	87-156	2300	500
1250	6"-1823HHF	122-301	2600	500
1250	6"-1823HHF	110-287	2950/3000	500
1250	6"-1823HHF	122-247	3300	500
1250	6"-1823HHF	145-287	3550/3560	500
1250	6"-1823F	55-96	1750/1770	230
1250	6"-1843F	55-96	1770	230
1250	6"-1923F	135-185	1760	600
1250	6"-1923F	139-189	1780	600
1250	6"-1923F	161-219	1900	600
1250	6"-1923F	206-277	2100	600
1250	6"-1923F	183-366	2350	600
1250	6"-1923F	239-390	2600	600
1250	6"-1923F	193-317	2800	600
1250	6"-1923F	216-390	2950	600
1250	6"-1824BF	100-140	1750/1770	225
1250	6"-1844BF	100-140	1770	225
1250	6"-1824BHF	100-140	1750/1770	450
1250	6"-1824CF	78-105	1750/1770	325
1250	6"-1844CF	78-105	1770	325
1250	6"-1824CHF	78-105	1750/1770	450
1250	6"-1824CF	81-108	1460/1480	325
1250	6"-1844CF	81-108	1480	325
1250	6"-1824CHF	81-108	1460/1480	450
1250	6"-1825F	84-168	1750/1770	230
1250	6"-1845F	84-168	1770	230
1250	6"-1825HF	84-168	1750/1770	450
1250	8"-1822F	43-52	1750/1770	200
1250	8"-1842F	43-52	1770	200
1250	8"-1825F	90-142	1750/1770	325
1250	8"-1825F	136-200	1750/1770	325
1500	5"-1822DF	90-120	3300	250
1500	6"-1822HHF	121-144	2950/3000	500
1500	6"-1822HHF	142-209	3550/3560	500
1500	6"-1823HHF	142-196	2600	500
1500	6"-1823HHF	153-285	2950/3000	500
1500	6"-1823HHF	137-240	3300	500

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1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

DI = Ductile Iron construction

RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
1500	6"-1823HHF	158-283	3550/3560	500
1500	6"-1823F	50-90	1750/1770	230
1500	6"-1843F	50-90	1770	230
1500	6"-1923F	192-262	2100	600
1500	6"-1923F	170-350	2350	600
1500	6"-1923F	225-374	2600	600
1500	6"-1923F	302	2800	600
1500	6"-1923F	336-375	2950	600
1500	6"-1824BF	95-134	1750/1770	225
1500	6"-1844BF	95-134	1770	225
1500	6"-1824BHF	95-134	1750/1770	450
1500	6"-1824CF	75-102	1460/1480	325
1500	6"-1844CF	75-102	1480	325
1500	6"-1824CHF	75-102	1460/1480	450
1500	6"-1825F	80-165	1750/1770	230
1500	6"-1845F	80-165	1770	230
1500	6"-1825HF	80-165	1750/1770	450
1500	6"-5876F	95-135	3300	440
1500	6"-5876F	100 - 175	3550/3560	440
1500	6"-5876UF	82 - 115	2950/3000	440
1500	6"-2823CF	88-151	2300	482
1500	6"-2823CF	85-125	2100	482
1500	6"-2823CF	90-100	1900	482
1500	6"-2823CF	76-86	1750/1770	482
1500	6"-2823AF	99-164	2300	478
1500	6"-2823AF	95-135	2100	478
1500	#N/A	100 - 160	2300	482
1500	#N/A	150	2300	482
1500	#N/A	120 - 125	2100	482
1500	#N/A	85 - 90	2100	482
1500	#N/A	90 - 100	1900	482
1500	#N/A	90 - 145	2300	482
1500	#N/A	95 - 115	2100	482
1500	6"-5823F	70 - 90	1750/1770	191
1500	6"-5922F	150 - 228	1750/1770	246
1500	8"-1822F	40-50	1750/1770	200
1500	8"-1825F	88-141	1460/1480	325
1500	8"-1825F	135-200	1750/1770	325
1500	8"-1842F	40-50	1770	200
2000	6"-1823BF	80-100	1750/1770	200
2000	6"-1825HF	123-150	1750/1770	450
2000	6"-1823BF	100-125	2100	200
2000	6"-1824CF	100-140	1750/1770	225
2000	6"-1843BF	80-100	1770	200
2000	6"-1824CHF	100-140	1750/1770	450
2000	6"-1825F	123-150	1750/1770	230
2000	6"-1844CF	100-140	1770	225
2000	6"-1845F	123-150	1770	230
2000	6"-2823AF	90 - 125	2100	482

**FIRE PUMPS
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The data shown is listed in the current Fire Protection Equipment Directory of U.L. and is consistent with the requirements of F.M.

1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

DI = Ductile Iron construction

RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
2000	6"-2823AF	90 - 150	2300	482
2000	6"-2824CF	105 - 170	2100	362
2000	6"-2825AF	210	2200	332
2000	6"-2825AF	115 - 155	1750/1770	332
2000	6"-2825AF	135 - 200	2100	332
2000	8"-1824BF	52-94	1460/1480	208
2000	8"-1844BF	52-94	1480	208
2000	8"-1824BF	53-127	1750/1770	208
2000	8"-1844BF	53-127	1770	208
2000	8"-1825F	82-135	1460/1480	325
2000	8"-1825F	130-195	1750/1770	325
2000	8"-1826F	110-172	1475	350
2000	8"-1826F	162-214	1750	350
2500	8"-1824BF	75-130	1750/1770	208
2500	8"-1844BF	75-130	1770	208
2500	8"-1824BF	115-144	2100	208
2500	8"-1825AF	100-125	1460/1480	325
2500	8"-1825AF	123-190	1750/1770	325
2500	8"-1826F	113-167	1475	350
2500	8"-1826F	160-215	1775	350
2500	8"-2823AF	50	1750/1770	321
2500	8"-2823AF	125 - 135	2300	321
2500	8"-2823AF	55 - 75	1750/1770	321
2500	8"-2823AF	75 - 85	2100	321
2500	8"-2823AF	90 - 115	2100	321
2500	8"-2823AF	90 - 120	2300	321
2500	8"-2824AF	135	1750/1770	330
2500	10"-1824F	65-100	1460/1480	200
2500	10"-1824DF	63-96	1460/1480	237
3000	8"-2823AF	60 - 80	1750/1770	321
3000	8"-2823AF	95 - 115	2100	321
3000	8"-2824AF	130	1750/1770	330
3000	8"-2824AF	104 - 115	1750/1770	330
3000	8"-2824AF	120 - 125	1750/1770	330
3000	8"-2824AF	130 - 165	2100	330
3000	10"-1823CF	100-110	2300	200
3000	10"-1824F	61-99	1460/1480	200
3000	10"-1824F	99-145	1460/1480	200
3000	10"-1824DF	61-95	1460/1480	237
3000	10"-1824DF	90-138	1750/1770	237
3000	10"-5824F	94 - 151	1750/1770	185
3500	10"-1824F	60-97	1460/1480	200
3500	10"-1824F	98-140	1750/1770	200
3500	10"-1824DF	59-94	1460/1480	237
3500	10"-1824DF	88-135	1750/1770	237
3500	10"-5824F	100 - 153	1750/1770	185
4000	10"-1824F	95-100	1750/1770	200
4000	10"-1824DF	64-92	1460/1480	237
4000	10"-1824DF	85-134	1750/1770	237
4000	10"-2825AF	94 - 98	1750/1770	335
4000	10"-2825AF	110 - 225	1900	335
4000	12"-1824AF	67-102	1460/1480	200
4500	10"-1824DF	81-132	1750/1770	237

**FIRE PUMPS
MAXIMUM ALLOWABLE
WORKING PRESSURE**

**Section 910 Page 74.3
Date July 2009**

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1. Maximum Working Pressure (PSI) is defined by U.L. as the maximum pressure that can be developed at the discharge flange under any operating condition. Applications where working pressures exceed these limits must be referred to the factory. Maximum pressure at the discharge flange = maximum suction pressure plus maximum total developed head.

2. In determining "Maximum Allowable Working Pressure", both agencies require initial hydrostatic testing approval at twice the values shown above.

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RATED CAPACITY G.P.M.	FN MODEL DESIGNATIONS	RATED HEAD PRESSURE RANGE P.S.I.	APPROXIMATE SPEED R.P.M.	MAXIMUM ALLOWABLE WORKING PRESSURE P.S.I.
4500	10"-2825AF	90 - 195	1750/1770	335
4500	10"-2825AF	106 - 223	1900	335
5000	10"-1824DF	91-130	1750/1770	237
5000	10"-2825AF	88 - 109	1750/1770	335
5000	10"-2825AF	110 - 195	1750/1770	335
5000	10"-2825AF	110 - 221	1900	335
5000	10"-2825AF	102 - 109	1900	335

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