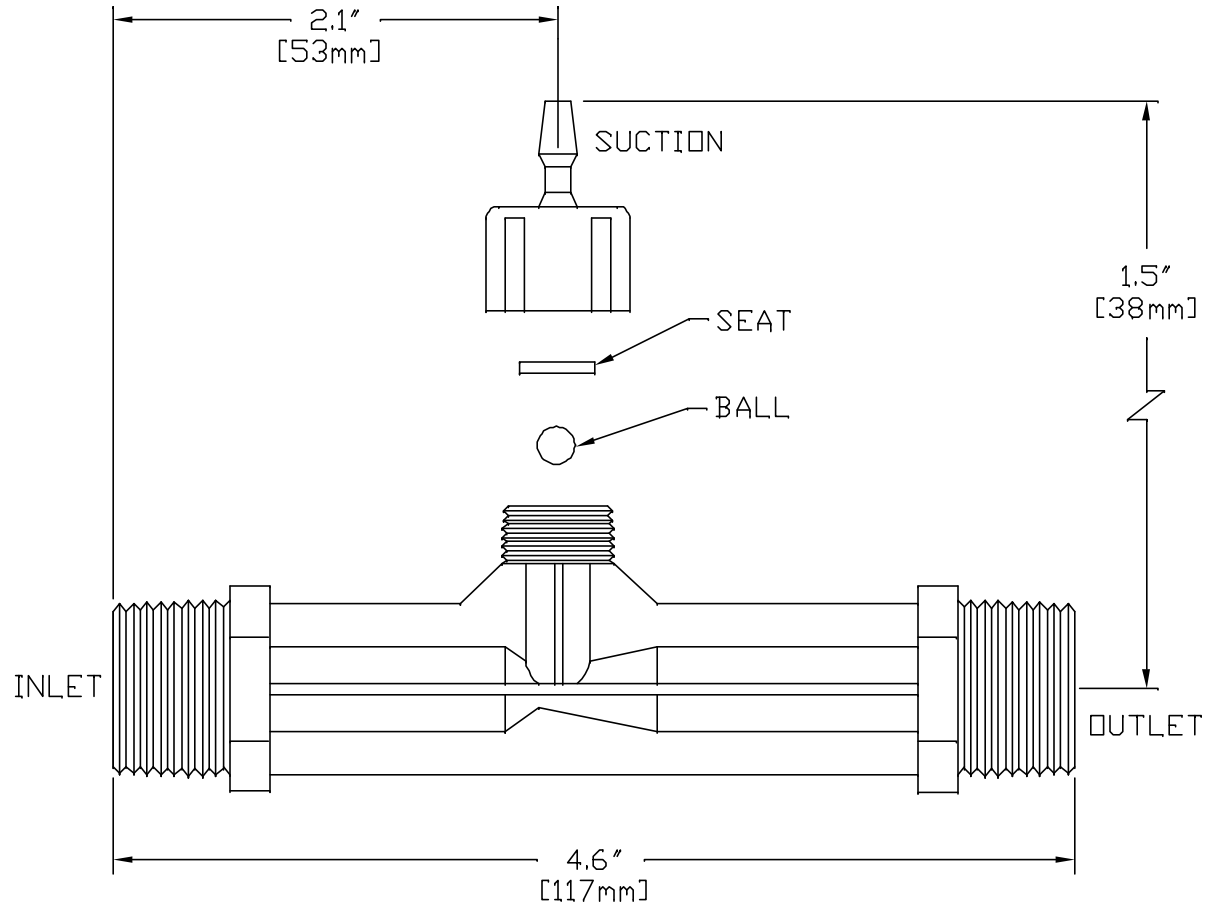
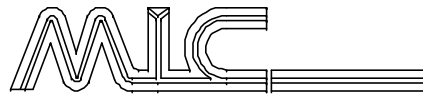


NOTES:

1. INLET & OUTLET: 1/2" MNPT
2. SUCTION PORT: 3/16" (ID) TUBING BARB SHANK
3. MATERIAL OF CONSTRUCTION: GLASS REINFORCED POLYPROPYLENE OR PVDF (KYNAR)
4. MAXIMUM TEMPERATURE RATING:
  - POLYPROPYLENE: 150 F. (65.5 C.)
  - PVDF: 200 F. (93.3 C.)
5. MAXIMUM PRESSURE RATING AT 68 F. (20 C.)
  - POLYPROPYLENE: 150 PSIG (10.3 BAR)
  - PVDF: 200 PSIG (13.8 BAR)



Covered By United States Patent No. 5,863,128  
International Patents Pending



mazzei injector corporation  
Bakersfield, California, USA

DATE	12-14-00	TITLE	
DRAWN BY	JRM	MODEL 287 INJECTOR	
REVIEWED BY	RST	NUMBER	JRM-5
SCALE	NONE		
MATERIAL: SEE NOTES		PAGE (1) OF (1)	

## Mazzei Model 287 Injector

English					
Operating Pressure		Model 287		Model 287	
Injector Inlet (psig)	Injector Outlet (psig)	Motive Flow (gph)	Liquid Suction (gph)	Motive Flow (gph)	Air Suction (scfh)
5	0	19.7	5.2	17.5	<1
	1	18.4	2.6		
	2	17.4	1.8		
	3	15.2	1.2		
	4				
psi @ 0 Vacuum		14.8	(3.5)		
10	0	21.5	6.2	18.8	1.0
	2	19.9	4.8	18.8	<1
	5	19.1	1.9		
	7	18.3	0.8		
	8				
psi @ 0 Vacuum		18.0	(7.7)		
15	0	27.0	6.8	24.8	2.0
	5	25.6	4.1	24.8	<1
	7	25.2	2.9		
	10	24.8	1.3		
	12				
psi @ 0 Vacuum		24.5	(11.5)		
20	0	32.1	7.0	30.2	3.0
	5	31.7	6.1	30.2	<1
	10	30.5	3.4		
	12	30.0	1.9		
	15	29.4	0.5		
psi @ 0 Vacuum		29.0	(16.0)		
25	0	37.1	7.8	34.2	3.5
	5	36.1	6.9	34.2	<1
	10	35.0	4.4		
	15	34.1	2.3		
	20				
psi @ 0 Vacuum		33.7	(19.5)		
30	0	40.9	8.0	38.0	3.5
	5	40.7	7.9	38.0	<1
	10	39.6	5.6		
	15	38.9	3.6		
	20	38.6	1.7		
25					
psi @ 0 Vacuum		38.1	(24.5)		
35	0	44.0	8.1	41.5	4.0
	5	44.0	8.0	41.5	<1
	10	43.1	6.8		
	15	42.4	5.0		
	20	41.8	3.0		
25	41.4	1.1			
psi @ 0 Vacuum		41.0	(27.0)		
40	0	46.7	8.1	44.5	4.5
	5	46.7	8.1	44.5	1.0
	10	46.3	7.4	44.3	<1
	15	45.6	6.3		
	20	44.8	4.3		
25	44.6	2.7			
30	44.1	0.3			
psi @ 0 Vacuum		43.8	(31.0)		
45	0	49.0	8.1	47.2	4.5
	5	49.0	8.1	47.2	2.0
	10	49.0	8.1	47.2	<1
	15	48.6	6.9		
	20	48.1	5.5		
25	47.6	4.0			
30	47.2	2.4			
35					
psi @ 0 Vacuum		46.8	(35.0)		
50	0	51.5	8.3	49.9	4.5
	10	51.5	8.3	49.9	<1
	15	51.5	8.0		
	20	51.3	5.9		
	25	50.8	4.5		
30	49.9	3.0			
35	49.5	1.2			
40					
psi @ 0 Vacuum		48.9	(39.0)		

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English					
Operating Pressure		Model 287		Model 287	
Injector Inlet (psig)	Injector Outlet (psig)	Motive Flow (gph)	Liquid Suction (gph)	Motive Flow (gph)	Air Suction (scfh)
60	0	56.1	8.3	54.6	6.0
	10	56.0	7.8	54.6	1.0
	20	56.0	7.8	54.6	<1
	25	55.5	7.3		
	30	55.1	5.7		
	35	54.8	4.1		
	40	54.5	2.7		
45	54.2	0.7			
psi @ 0 Vacuum		53.9	(47)		
70	0	60.3	8.3	58.7	7.0
	10	60.3	8.3	58.7	1.5
	20	60.3	8.3	58.7	<1
	30	60.1	7.4		
	35	59.6	6.1		
	40	59.2	4.7		
	45	58.9	3.5		
50	58.7	1.7			
55					
psi @ 0 Vacuum		58.4	(55)		
80	0	64.2	8.3	62.8	7.0
	20	64.2	8.3	62.8	<1
	30	64.1	8.1		
	35	63.9	7.5		
	40	63.5	6.4		
	45	63.3	5.2		
	50	63.0	4.1		
55	62.6	2.6			
60	62.3	0.9			
65					
psi @ 0 Vacuum		62.1	(63)		
90	0	68.4	8.3	66.4	7.0
	20	68.4	8.3	66.4	1.0
	30	68.4	8.3	66.4	<1
	40	68.0	7.9		
	45	67.7	6.9		
	50	67.5	5.7		
	55	67.3	4.7		
60	67.1	3.5			
65	66.8	2.0			
70	66.6	0.2			
75					
psi @ 0 Vacuum		66.5	(71)		
100	0	72.0	7.7	70.4	7.0
	20	72.0	7.7	70.4	1.0
	40	71.7	7.4	70.1	<1
	50	71.4	7.2		
	60	70.9	5.2		
	65	70.7	4.0		
	70	70.5	3.0		
75	70.3	1.3			
80					
psi @ 0 Vacuum		70.1	(79)		
120	0	79.1	6.4	76.8	7.0
	40	79.1	6.4	76.8	<1
	60	78.9	5.8		
	80	77.7	3.7		
	90	77.3	1.5		
	95				
	100				
psi @ 0 Vacuum		77.1	(95)		
140	0	85.0	6.4	83.2	7.5
	40	85.0	6.4	83.2	<1
	60	85.0	6.4		
	70	84.8	6.1		
	80	84.5	5.5		
	90	84.1	4.5		
	100	83.6	2.9		
110	82.9	0.6			
120					
psi @ 0 Vacuum		82.8	(112)		

## Mazzei Model 287 Injector

Operating Pressure		Metric			
Injector Inlet (Kg/cm2)	Injector Outlet (Kg/cm2)	Model 287		Model 287	
		Motive Flow (l/m)	Liquid Suction (l/m)	Motive Flow (l/m)	Air Suction (l/m)
0.35	0.00	1.24	0.33	1.10	<0.25
	0.07	1.16	0.16		
	0.14	1.10	0.11		
	0.21	0.96	0.08		
	0.28				
	Kg/cm2@0 Vac	0.93	(0.25)		
0.70	0.00	1.36	0.39	1.19	0.5
	0.14	1.26	0.30	1.19	<0.25
	0.35	1.20	0.12		
	0.49	1.15	0.05		
	0.56				
	Kg/cm2@0 Vac	1.14	(0.54)		
1.05	0.00	1.70	0.43	1.56	0.9
	0.35	1.61	0.26	1.56	<0.25
	0.49	1.59	0.18		
	0.70	1.56	0.08		
	0.84				
	Kg/cm2@0 Vac	1.55	(0.81)		
1.41	0.00	2.02	0.44	1.91	1.4
	0.35	2.00	0.38	1.91	<0.25
	0.70	1.92	0.21		
	0.84	1.89	0.12		
	1.05	1.85	<0.1		
	Kg/cm2@0 Vac	1.83	(1.12)		
1.76	0.00	2.34	0.49	2.16	1.7
	0.35	2.28	0.44	2.16	<0.25
	0.70	2.21	0.28		
	1.05	2.15	0.15		
	1.41				
	Kg/cm2@0 Vac	2.13	(1.37)		
2.11	0.00	2.58	0.50	2.40	1.7
	0.35	2.57	0.50	2.40	<0.25
	0.70	2.50	0.35		
	1.05	2.45	0.23		
	1.41	2.43	0.11		
	Kg/cm2@0 Vac	2.40	(1.72)		
2.46	0.00	2.78	0.51	2.62	1.9
	0.35	2.78	0.50	2.62	<0.25
	0.70	2.72	0.43		
	1.05	2.67	0.32		
	1.41	2.64	0.19		
	Kg/cm2@0 Vac	2.59	(1.90)		
2.81	0.00	2.95	0.51	2.81	2.1
	0.35	2.95	0.51	2.81	0.5
	0.70	2.92	0.47	2.79	<0.25
	1.05	2.88	0.40		
	1.41	2.83	0.27		
	Kg/cm2@0 Vac	2.76	(2.18)		
3.16	0.00	3.09	0.51	2.98	2.1
	0.35	3.09	0.51	2.98	0.9
	0.70	3.09	0.51	2.98	<0.25
	1.05	3.07	0.44		
	1.41	3.03	0.35		
	Kg/cm2@0 Vac	2.95	(2.46)		
3.52	0.00	3.25	0.52	3.15	2.1
	0.70	3.25	0.52	3.15	<0.25
	1.05	3.25	0.50		
	1.41	3.24	0.37		
	1.76	3.20	0.28		
	Kg/cm2@0 Vac	3.08	(2.74)		

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Operating Pressure		Metric			
Injector Inlet (Kg/cm2)	Injector Outlet (Kg/cm2)	Model 287		Model 287	
		Motive Flow (l/m)	Liquid Suction (l/m)	Motive Flow (l/m)	Air Suction (l/m)
4.22	0.00	3.54	0.52	3.44	2.8
	0.70	3.53	0.49	3.44	0.5
	1.41	3.53	0.49	3.44	<0.25
	1.76	3.50	0.46		
	2.11	3.48	0.36		
	2.46	3.46	0.26		
	2.81	3.44	0.17		
	3.16	3.42	<0.1		
	Kg/cm2@0 Vac	3.40	(3.30)		
4.92	0.00	3.80	0.52	3.70	3.3
	0.70	3.80	0.52	3.70	0.7
	1.41	3.80	0.52	3.70	<0.25
	2.11	3.79	0.47		
	2.46	3.76	0.38		
	2.81	3.73	0.30		
	3.16	3.72	0.22		
	3.52	3.70	0.11		
	Kg/cm2@0 Vac	3.68	(3.87)		
5.62	0.00	4.05	0.52	3.96	3.3
	1.41	4.05	0.52	3.96	<0.25
	2.11	4.04	0.51		
	2.46	4.03	0.47		
	2.81	4.01	0.40		
	3.16	3.99	0.33		
	3.52	3.97	0.26		
	3.87	3.95	0.16		
	Kg/cm2@0 Vac	3.92	(4.43)		
6.33	0.00	4.31	0.52	4.19	3.3
	1.41	4.31	0.52	4.19	0.5
	2.11	4.31	0.52	4.19	<0.25
	2.81	4.29	0.50		
	3.16	4.27	0.44		
	3.52	4.26	0.36		
	3.87	4.25	0.30		
	4.22	4.23	0.22		
	Kg/cm2@0 Vac	4.20	(4.99)		
7.03	0.00	4.54	0.49	4.44	3.3
	1.41	4.54	0.49	4.44	0.5
	2.81	4.52	0.47	4.42	<0.25
	3.52	4.50	0.45		
	4.22	4.47	0.33		
	4.57	4.46	0.25		
	4.92	4.45	0.19		
	5.27	4.43	0.08		
	Kg/cm2@0 Vac	4.42	(5.55)		
8.44	0.00	4.99	0.40	4.84	3.3
	2.81	4.99	0.40	4.84	<0.25
	4.22	4.98	0.37		
	5.62	4.90	0.23		
	6.33	4.88	0.09		
	6.68				
	7.03				
		Kg/cm2@0 Vac	4.86	(6.68)	
9.84	0.00	5.36	0.40	5.25	3.5
	2.81	5.36	0.40	5.25	<0.25
	4.22	5.36	0.40		
	4.92	5.35	0.38		
	5.62	5.33	0.35		
	6.33	5.31	0.28		
	7.03	5.27	0.18		
	7.73	5.23	<0.1		
	Kg/cm2@0 Vac	5.22	(7.07)		