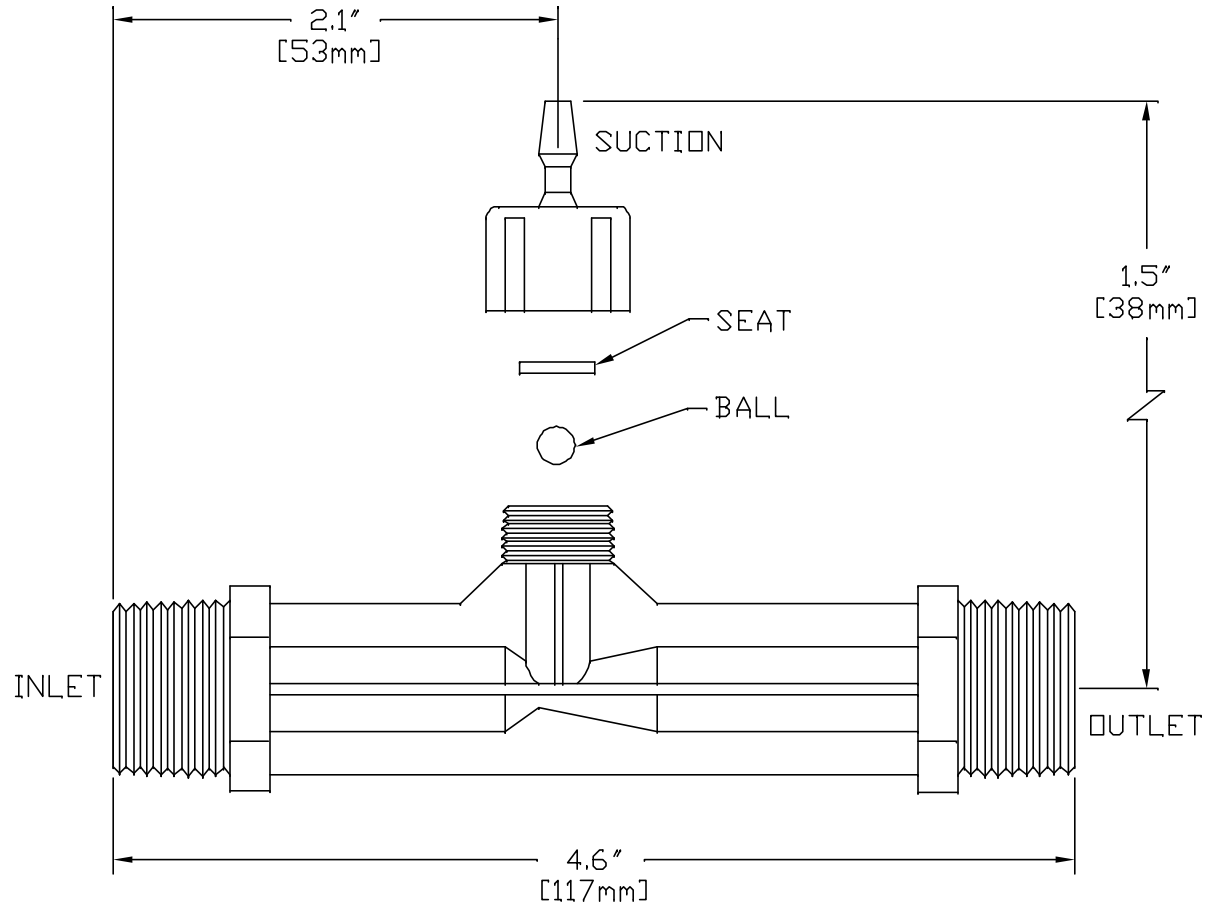


NOTES:

1. INLET & OUTLET: 1/2" MNPT
2. SUCTION PORT: 1/4" (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 Company, LLC
 500 Rooster Drive, Bakersfield, CA 93307
 Tel: 661.363.6500 Fax: 661.363.7500

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)		

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		
	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

Metric					
Operating Pressure		Model 287		Model 287	
Injector Inlet (Kg/cm2)	Injector Outlet (Kg/cm2)	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		
	1.76				
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		
	1.76	2.61	0.07		
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		
	1.76	2.81	0.17		
2.11	2.78	<0.1			
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		
	1.76	3.00	0.25		
2.11	2.98	0.15			
2.46					
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		
	2.11	3.15	0.19		
2.46	3.12	0.08			
2.81					
Kg/cm2@0 Vac	3.08	(2.74)			

Metric					
Operating Pressure		Model 287		Model 287	
Injector Inlet (Kg/cm2)	Injector Outlet (Kg/cm2)	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		
3.87					
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		
4.22	3.93	0.06			
4.57					
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		
4.57	4.21	0.13			
4.92	4.20	<0.1			
5.27					
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		
5.62					
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		
	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		
8.44					
Kg/cm2@0 Vac	5.22	(7.07)			