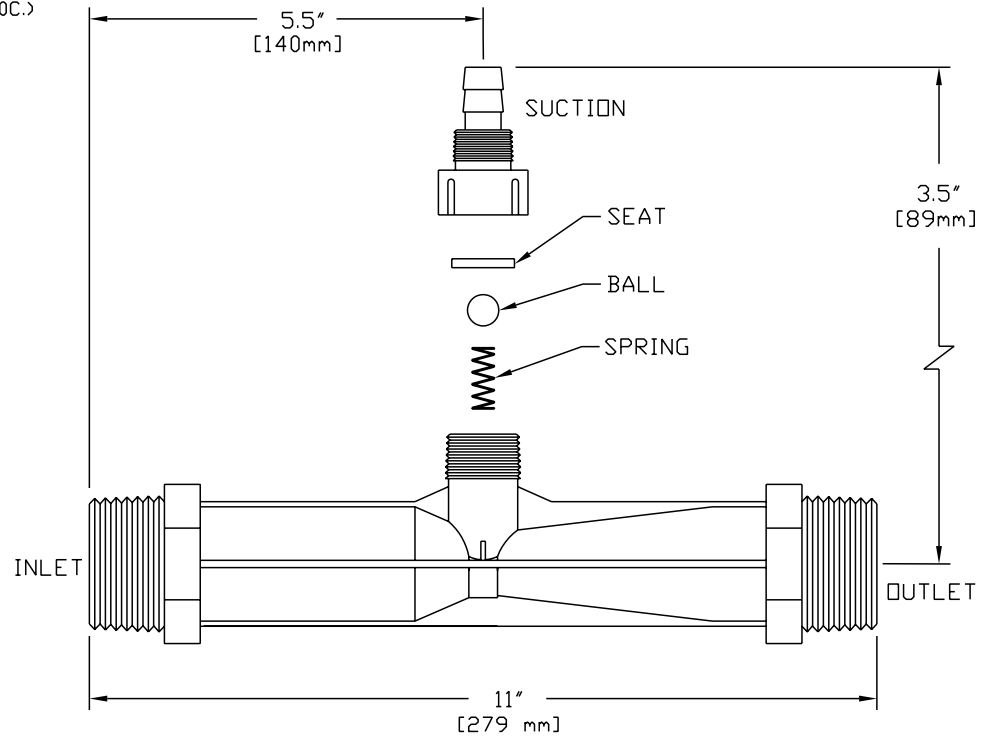


NOTES:

1. INLET & OUTLET: 1.5" MNPT OR BSPT (ISO-R)
2. SUCTION PORT: 1/2" TUBING BARB SHANK OR 1/2" MNPT WITH BUILT-IN CHECK VALVE WITH TEFLON BALL, KEL-F SEAT AND HASTELLOY-C SPRING
3. MATERIAL: 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. (20C.)  
 POLYPROPYLENE: 150 PSIG (10.3 BAR)  
 PVDF: 200 PSIG (13.8 BAR)



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

**MIC**  
 mazzei injector corporation  
 Bakersfield, California, USA

DATE	03-31-05	TITLE	
DRAWN BY	JPB	MODEL 1587 INJECTOR	
REVIEWED BY	RST	NUMBER	SIZE
SCALE	NONE	JRM-19	REV.
MATERIALS: SEE NOTES		PAGE (1) OF (1)	

Mazzei Injector Corporation - Injector Performance Table							
Injector Model				1587			
Operating Pressure PSIG		Water Suction		Operating Pressure PSIG		Water Suction	
Injector Inlet	Injector Outlet	Motive Flow GPM	Water Suction GPH	Injector Inlet	Injector Outlet	Motive Flow GPM	Water Suction GPH
5	0	17.7	244.3	60	0	61.3	275.8
	1		102.9		5		275.8
	2		91.5		10		275.8
	3		54.2		15		275.8
	4				20		275.8
10	0	25.0	269.7		30		271.4
	2		249.1		35		259.4
	5		103.7		40		212.6
	7		58.3		45		117.8
	8		14.4		70		0
15	0	30.6	270.6	5		277.1	
	5		184.7	10		277.1	
	7		154.2	15		277.1	
	10		98.6	20		277.1	
	12		38.0	30		274.5	
20	0	35.4	267.1	40		263.5	
	5		265.7	45		209.0	
	10		174.6	50		151.3	
	12		142.0	55		58.2	
	15		88.0	80	0	275.9	
25	0	39.6	265.2		5	275.9	
	5		264.9		10	275.9	
	10		229.6		15	275.9	
	15		156.8		20	275.9	
	20		55.1		30	275.9	
30	0	43.3	263.5		40	273.4	
	5		261.5		50	229.9	
	10		268.3		60	92.5	
	15		200.4		65	51.4	
	20		164.8	90	0	274.9	
25	33.4	5	274.9				
35	0	46.8	285.7		10	274.9	
	5		284.7		20	274.9	
	10		287.7		30	274.9	
	15		251.8		40	274.9	
	20		191.7		50	272.1	
40	25	143.8	60		208.2		
	0	50.0	287.0		70	62.6	
	5		284.9		75	0.0	
	10		282.6	100	0	275.2	
	15		278.4		5	275.2	
20	244.5		10		275.2		
25	180.3	20	275.2				
30	115.5	30	275.2				
45	0	53.1	259.8		40	275.2	
	5		259.2		50	274.1	
	10		260.4		60	265.7	
	15		257.1		70	179.9	
	20		256.9		80	62.6	
	25		225.9	120	0	269.7	
	30		157.1		5	269.7	
35	73.5	10	269.7				
50	0	56.0	260.5		20	269.7	
	5		259.7		30	269.7	
	10		259.7		40	269.7	
	15		258.3		50	269.7	
	20		257.3		60	270.1	
	25		252.4		70	268.9	
	30		205.4		80	226.1	
	35		137.2	90	106.1		
40	75.1	100	0.0				

Mazzei Injector Corporation - Injector Performance Table									
Injector Model				1587					
Operating Pressure kg/cm2		Water Suction		Operating Pressure kg/cm2		Water Suction			
Injector Inlet	Injector Outlet	Motive Flow l/min	Water Suction LPH	Injector Inlet	Injector Outlet	Motive Flow l/min	Water Suction LPH		
0.35	0.00	67.0	924.7	4.22	0.00	232.0	1043.8		
	0.07		389.5		0.35		1043.8		
	0.14		346.3		0.70		1043.8		
	0.21		205.3		1.05		1043.8		
	0.28				1.41		1043.8		
0.70	0.00	94.7	1020.7				2.11		1027.1
	0.14		943.0		2.46		981.7		
	0.35		392.7		2.81		804.6		
	0.49		220.8		3.16		445.7		
	0.56		54.6						
1.05	0.00	116.0	1024.1	4.92	0.00	250.6	1049.0		
	0.35		699.1		0.35		1049.0		
	0.49		583.7		1.05		1049.0		
	0.70		373.1		1.41		1049.0		
	0.84		144.0		2.11		1039.0		
1.41	0.00	133.9	1011.0				2.81		997.5
	0.35		1005.6		3.16		791.2		
	0.70		661.0		3.52		572.8		
	0.84		537.5		3.87		220.3		
	1.05		333.0						
1.76	0.00	149.7	1003.6	5.62	0.00	267.9	1044.4		
	0.35		1002.5		0.35		1044.4		
	0.70		869.1		0.70		1044.4		
	1.05		593.6		1.05		1044.4		
	1.41		208.4		1.41		1044.4		
2.11	0.00	164.0	997.5				2.11		1034.8
	0.35		989.8		2.81		870.2		
	0.70		1015.5		3.52		350.0		
	1.05		758.5		4.22		194.6		
	1.41		623.7		4.57				
	1.76		126.4						
2.46	0.00	177.2	1081.4	6.33	0.00	284.1	1040.5		
	0.35		1077.5		0.35		1040.5		
	0.70		1088.9		0.70		1040.5		
	1.05		952.9		1.41		1040.5		
	1.41		725.5		2.11		1029.7		
	1.76		544.1		2.81		787.9		
2.81	0.00	189.4	1086.3				3.52		236.8
	0.35		1078.2		4.22		0.0		
	0.70		1069.5		4.92				
	1.05		1053.6		5.27				
	1.41		925.4						
	1.76		682.3						
3.16	0.00	200.9	983.3	7.03	0.00	299.5	1041.7		
	0.35		981.2		0.35		1041.7		
	0.70		985.5		0.70		1041.7		
	1.05		973.0		1.41		1041.7		
	1.41		972.2		2.11		1041.7		
	1.76		855.1		2.81		1041.7		
	2.11		594.5		3.52		1037.5		
	2.46		278.2		4.22		1005.6		
3.52	0.00	211.8	986.0				4.92		680.9
	0.35		982.8		5.62		236.8		
	0.70		982.8						
	1.05		977.7						
	1.41		974.0						
	1.76		955.2						
	2.11		777.5						
	2.46		519.3						
	2.81		284.4						

<b>Mazzei Injector Corporation - Injector Performance Table</b>								
<b>Injector Model</b>				<b>1587</b>				
Operating Pressure PSIG		Air Suction		Operating Pressure PSIG		Air Suction		
Injector Inlet	Injector Outlet	Motive Flow GPM	Air Suction SCFH	Injector Inlet	Injector Outlet	Motive Flow GPM	Air Suction SCFH	
<b>5</b>	0	17.0	65.9	<b>60</b>	0	58.7	306.7	
	1		21.9		5		250.7	
	2		15.7		10		161.9	
	3		8.7		15		96.1	
	4				20		71.8	
<b>10</b>	0	24.0	127.8		30		40.4	
	2		61.1		35		32.0	
	5		21.7		40		23.3	
	7		9.8		45		21.9	
	8		5.1					
<b>15</b>	0	29.4	153.8	<b>70</b>	0			
	5		42.7		5			
	7		26.8		10			
	10		13.7		15			
	12		9.1		20			
<b>20</b>	0	33.9	173.1		30			
	5		64.3		40			
	10		25.5		45			
	12		18.8		50			
	15		12.0		55			
<b>25</b>	0	37.9	195.6	<b>80</b>	0			
	5		91.1		5			
	10		43.5		10			
	15		19.1		15			
	20		9.8		20			
<b>30</b>	0	41.5	230.5		30			
	5		114.6		40			
	10		54.8		50			
	15		30.0		60			
	20		17.5		65			
	25		10.2					
<b>35</b>	0	44.9	230.7	<b>90</b>	0			
	5		143.6		5			
	10		70.9		10			
	15		41.6		20			
	20		27.0		30			
	25		18.7		40			
<b>40</b>	0	48.0	255.0		50			
	5		189.7		60			
	10		86.8		70			
	15		52.4		75			
	20		36.2					
	25		26.7					
<b>45</b>	0	50.9	267.3	<b>100</b>	0			
	5		207.9		5			
	10		91.2		10			
	15		58.9		20			
	20		39.9		30			
	25		28.2		40			
	30		18.9		50			
35	15.1	60						
<b>50</b>	0	53.6	269.3		<b>120</b>	0		
	5		222.0			5		
	10		111.5	10				
	15		70.7	20				
	20		51.7	30				
	25		37.4	40				
	30		22.8	50				
	35		19.6	60				
	40		14.4	70				
			80					
			90					
			100					

<b>Mazzei Injector Corporation - Injector Performance Table</b>								
<b>Injector Model</b>				<b>1587</b>		6/8/04		
Operating Pressure kg/cm2		Air Suction		Operating Pressure kg/cm2		Air Suction		
Injector Inlet	Injector Outlet	Motive Flow l/min	Air Suction l/min	Injector Inlet	Injector Outlet	Motive Flow l/min	Air Suction l/min	
<b>0.35</b>	0.00	64.2	31.1	<b>4.22</b>	0.00	222.4	144.8	
	0.07		10.3		0.35		118.3	
	0.14		7.4		0.70		76.4	
	0.21		4.1		1.05		45.4	
	0.28		#DIV/0!		1.41		33.9	
<b>0.70</b>	0.00	90.8	60.3		2.11		19.1	
	0.14		28.8		2.46		15.1	
	0.35		10.2		2.81		11.0	
	0.49		4.6		3.16		10.3	
	0.56		2.4		0.00			
<b>1.05</b>	0.00	111.2	72.6	<b>4.92</b>	0.35			
	0.35		20.1		0.70			
	0.49		12.6		1.05			
	0.70		6.5		1.41			
	0.84		4.3		2.11			
<b>1.41</b>	0.00	128.4	81.7		2.81			
	0.35		30.3		3.16			
	0.70		12.1		3.52			
	0.84		8.9		3.87			
	1.05		5.7		0.00			
<b>1.76</b>	0.00	143.5	92.3	<b>5.62</b>	0.35			
	0.35		43.0		0.70			
	0.70		20.5		1.05			
	1.05		9.0		1.41			
	1.41		4.6		2.11			
<b>2.11</b>	0.00	157.2	108.8		2.81			
	0.35		54.1		3.52			
	0.70		25.9		4.22			
	1.05		14.2		4.57			
	1.41		8.3		0.00			
<b>2.46</b>	0.00	169.8	108.9	<b>6.33</b>	0.35			
	0.35		67.8		0.70			
	0.70		33.5		1.41			
	1.05		19.6		2.11			
	1.41		12.8		2.81			
<b>2.81</b>	0.00	181.6	120.4		4.22			
	0.35		89.6		4.92			
	0.70		41.0		5.27			
	1.05		24.8		0.00			
	1.41		17.1		0.35			
<b>3.16</b>	0.00	192.6	126.2	<b>7.03</b>	0.70			
	0.35		98.1		1.41			
	0.70		43.0		2.11			
	1.05		27.8		2.81			
	1.41		18.9		3.52			
<b>3.52</b>	0.00	203.0	127.1		<b>8.44</b>	4.22		
	0.35		104.8			4.92		
	0.70		52.6			5.62		
	1.05		33.4			0.00		
	1.41		24.4			0.35		
<b>3.52</b>	1.76	203.0	17.6	<b>8.44</b>		0.70		
	2.11		10.7			1.41		
	2.46		9.3			2.11		
	2.81		6.8			2.81		
						3.52		
					4.22			
					4.92			
					5.62			
					6.33			
					7.03			