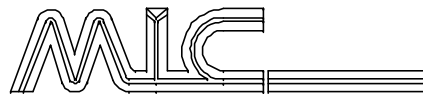
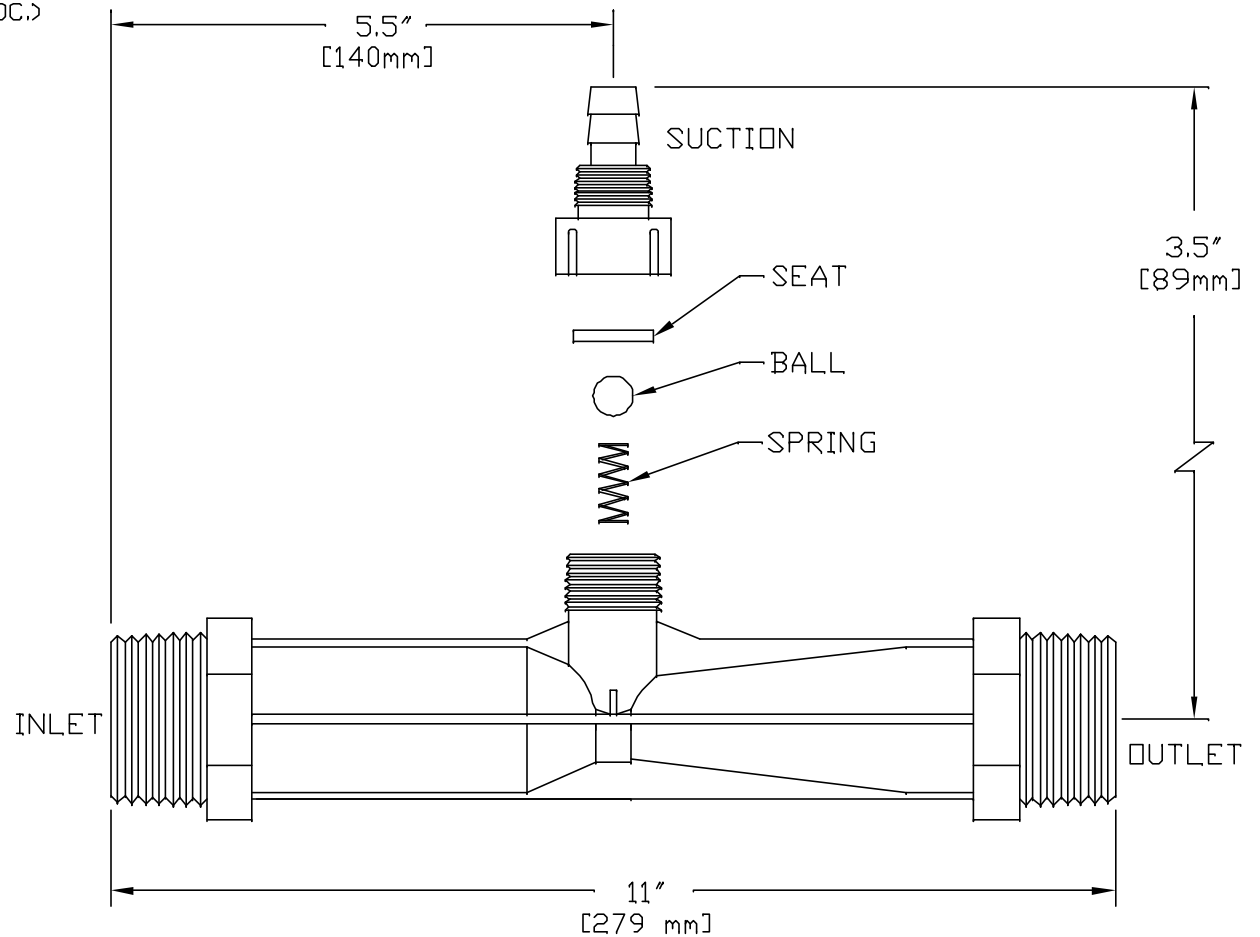


NOTES:

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)



mazzei injector corporation  
 Bakersfield, California, USA

DATE	12-18-00	TITLE		
DRAWN BY	JRM	MODEL 1583-A INJECTOR		
REVIEWED BY	RST	NUMBER	SIZE	REV.
SCALE	NONE	JRM-19		
MATERIALS: SEE NOTES		PAGE (1) OF (1)		

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

Mazzei Injector Corporation - Injector Performance Table							
Injector Model				1583		6/11/04	
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	10.7	135.8	60	0	37.2	229.7
	1		84.5		5		228.9
	2		53.3		10		229.0
	3				15		227.0
	4				20		227.9
10	0	15.2	219.9		30		206.5
	2		143.8		35		182.3
	5		78.8		40		148.0
	7		42.0		45		82.2
	8				70		0
15	0	18.6	225.2	5		228.7	
	5		163.8	10		228.7	
	7		124.4	15		228.7	
	10		86.5	20		228.7	
	12		14.6	30		225.7	
20	0	21.5	228.0	40		198.6	
	5		205.4	45		159.6	
	10		143.5	50		124.4	
	12		131.7	55		43.3	
	15		66.2	80	0	231.6	
25	0	24.0	226.8		5	231.6	
	5		226.4		10	231.6	
	10		193.9		15	231.6	
	15		148.1		20	231.6	
	20		49.0		30	231.6	
30	0	26.3	226.5		40	220.5	
	5		226.4		50	177.4	
	10		211.6		60	93.2	
	15		167.3		65	12.0	
	20		125.5	90	0	229.4	
25	18.3	5	229.4				
35	0	28.4	226.7		10	229.4	
	5		226.5		20	229.4	
	10		224.2		30	229.4	
	15		205.7		40	229.1	
	20		164.8		50	217.8	
40	0	30.3	227.3		60	177.8	
	5		228.7		70	49.1	
	10		227.2		75		
	15		220.5	100	0	232.0	
	20		192.8		5	232.0	
25	153.4	10	232.0				
30	81.5	20	232.0				
45	0	32.2	227.9		30	232.0	
	5		228.3		40	232.0	
	10		228.0		50	228.4	
	15		223.5		60	206.2	
	20		212.4		70	146.7	
	25		174.9		80	25.7	
	30		113.1	120	0		
35	47.1	5					
50	0	33.9	227.4		10		
	5		227.4		20		
	10		226.3		30		
	15		225.6		40		
	20		224.4		50		
	25		203.7		60		
	30		172.4		70		
	35		120.6		80		
40	40.5	90					
			100				

<b>Mazzei Injector Corporation - Injector Performance Table</b>									
<b>Injector Model</b>				<b>1583</b>		6/11/04			
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		
<b>0.35</b>	0.00	43.9	514.1	<b>4.22</b>	0.00	152.1	869.4		
	0.07		319.7		0.35		866.5		
	0.14		201.7		0.70		866.8		
	0.21				1.05		859.2		
	0.28				1.41		862.5		
<b>0.70</b>	0.00	62.1	832.2				2.11		781.6
	0.14		544.1		2.46		690.2		
	0.35		298.1		2.81		560.0		
	0.49		159.2		3.16		311.1		
	0.56								
<b>1.05</b>	0.00	76.0	852.5	<b>4.92</b>	0.00	164.3	865.8		
	0.35		620.0		0.35		865.8		
	0.49		470.8		0.70		865.8		
	0.70		327.5		1.05		865.8		
	0.84		55.3		1.41		865.8		
<b>1.41</b>	0.00	87.8	863.1				2.11		854.3
	0.35		777.4		2.81		751.6		
	0.70		543.3		3.16		604.0		
	0.84		498.3		3.52		471.0		
	1.05		250.6		3.87		163.8		
<b>1.76</b>	0.00	98.2	858.4	<b>5.62</b>	0.00	175.6	876.6		
	0.35		856.7		0.35		876.6		
	0.70		733.8		0.70		876.6		
	1.05		560.4		1.05		876.6		
	1.41		185.4		1.41		876.6		
<b>2.11</b>	0.00	107.5	857.3				2.11		834.5
	0.35		856.9		3.52		671.6		
	0.70		801.1		4.22		352.7		
	1.05		633.1		4.57		45.3		
	1.41		475.2						
	1.76		69.3						
<b>2.46</b>	0.00	116.2	858.2	<b>6.33</b>	0.00	186.3	868.3		
	0.35		857.3		0.35		868.3		
	0.70		848.7		0.70		868.3		
	1.05		778.5		1.41		868.3		
	1.41		623.7		2.11		867.1		
	1.76		337.2		2.81		824.6		
<b>2.81</b>	0.00	124.2	860.4				3.52		673.1
	0.35		865.6		4.22		185.8		
	0.70		860.0		4.92				
	1.05		834.5		5.27				
	1.41		729.9						
	1.76		580.6	<b>7.03</b>	0.00	196.4	0.00	878.3	
2.11	308.3	0.35	878.3						
		0.70	878.3						
		1.41	878.3						
		2.11	878.3						
		2.81	878.3						
<b>3.16</b>	0.00	131.7	862.7				3.52		864.6
	0.35		863.9		4.22		780.6		
	0.70		862.9		4.92		555.2		
	1.05		845.9		5.62		97.4		
	1.41		803.9						
	1.76		662.0	<b>8.44</b>	0.00		0.00		
	2.11		428.0		0.35				
2.46	178.4	0.70							
		1.41							
		2.11							
		2.81							
		3.52							
		4.22							
		4.92							
		5.62							
<b>3.52</b>	0.00	138.8	860.8		6.33				
	0.35		860.8	7.03					
	0.70		856.5						
	1.05		853.9						
	1.41		849.5						
	1.76		770.9						
	2.11		652.6						
	2.46		456.4						
2.81	153.2								

<b>Mazzei Injector Corporation - Injector Performance Table</b>							
<b>Injector Model</b>				<b>1583</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	10.3	39.5	<b>60</b>	0	35.6	214.2
	1		17.1		5		150.3
	2		4.0		10		75.6
	3		2.1		15		52.6
	4				20		39.6
<b>10</b>	0	14.5	85.3		30		20.8
	2		25.9		35		16.9
	5		8.3		40		11.9
	7		4.2		45		10.4
	8		2.9				
<b>15</b>	0	17.8	114.9	<b>70</b>	0	38.5	241.4
	5		21.7		5		189.0
	7		13.9		10		100.3
	10		6.3		15		67.2
	12		4.2		20		47.7
<b>20</b>	0	20.6	133.2		30		27.5
	5		35.6		40		18.0
	10		14.8		45		12.6
	12		9.4		50		12.0
	15		7.1		55		11.1
<b>25</b>	0	23.0	139.5	<b>80</b>	0	41.1	249.5
	5		48.8		5		198.2
	10		23.5		10		108.4
	15		11.8		15		72.5
	20		7.8		20		58.9
<b>30</b>	0	25.2	158.3		30		37.5
	5		56.7		40		23.8
	10		30.9		50		15.1
	15		16.3		60		12.4
	20		8.9		65		8.9
<b>35</b>	0	27.2	161.4	<b>90</b>	0	43.6	262.6
	5		68.4		5		208.4
	10		36.2		10		139.5
	15		22.0		20		71.4
	20		13.6		30		47.4
<b>40</b>	0	29.1	173.4		40		31.5
	5		79.2		50		21.9
	10		43.4		60		12.9
	15		28.4		70		7.2
	20		18.9		75		
<b>45</b>	0	30.8	194.4	<b>100</b>	0	46.0	279.1
	5		97.5		5		231.1
	10		51.3		10		166.5
	15		34.0		20		80.8
	20		23.5		30		55.2
<b>50</b>	0	32.5	195.1		40		38.4
	5		109.4		50		26.7
	10		59.1		60		19.3
	15		41.4		70		17.4
	20		28.2		80		13.4
<b>60</b>	0	35.6	214.2	<b>120</b>	0	50.4	296.0
	5		150.3		5		248.5
	10		75.6		10		216.2
	15		52.6		20		107.1
	20		39.6		30		71.1
	30		20.8		40		53.3
	35		16.9		50		39.7
	40		11.9		60		29.3
45	10.4	70	20.6				
50	8.9	80	19.9				
55	7.2	90	16.1				
60	6.7	100					

<b>Mazzei Injector Corporation - Injector Performance Table</b>									
<b>Injector Model</b>				<b>1583</b>		6/11/04			
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	38.4	18.6	<b>4.22</b>	0.00	133.0	101.1		
	0.07		8.1		0.35		70.9		
	0.14		1.9		0.70		35.7		
	0.21		1.0		1.05		24.8		
	0.28				1.41		18.7		
<b>0.70</b>	0.00	54.3	40.3				2.11		9.8
	0.14		12.2		2.46		8.0		
	0.35		3.9		2.81		5.6		
	0.49		2.0		3.16		4.9		
	0.56		1.4						
<b>1.05</b>	0.00	66.5	54.2	<b>4.92</b>	0.00	143.7	114.0		
	0.35		10.3		0.35		89.2		
	0.49		6.6		0.70		47.4		
	0.70		3.0		1.05		31.7		
	0.84		2.0		1.41		22.5		
<b>1.41</b>	0.00	76.8	62.9				2.11		13.0
	0.35		16.8		2.81		8.5		
	0.70		7.0		3.16		5.9		
	0.84		4.4		3.52		5.7		
	1.05		3.4		3.87		5.2		
<b>1.76</b>	0.00	85.9	65.8	<b>5.62</b>	0.00	153.6	117.8		
	0.35		23.0		0.35		93.5		
	0.70		11.1		0.70		51.2		
	1.05		5.6		1.05		34.2		
	1.41		3.7		1.41		27.8		
<b>2.11</b>	0.00	94.1	74.7				2.11		17.7
	0.35		26.7		2.81		11.2		
	0.70		14.6		3.52		7.1		
	1.05		7.7		4.22		5.9		
	1.41		4.2		4.57		4.2		
<b>2.46</b>	0.00	101.6	76.2	<b>6.33</b>	0.00	162.9	124.0		
	0.35		32.3		0.35		98.4		
	0.70		17.1		0.70		65.9		
	1.05		10.4		1.41		33.7		
	1.41		6.4		2.11		22.4		
<b>2.81</b>	0.00	108.6	81.9				2.81		14.9
	0.35		37.4		3.52		10.4		
	0.70		20.5		4.22		6.1		
	1.05		13.4		4.92		3.4		
	1.41		8.9		5.27				
<b>3.16</b>	0.00	116.8	91.7	<b>7.03</b>	0.00	171.8	131.7		
	0.35		46.0		0.35		109.1		
	0.70		24.2		0.70		78.6		
	1.05		16.0		1.41		38.1		
	1.41		11.1		2.11		26.1		
<b>3.52</b>	0.00	121.4	92.1				2.81		18.1
	0.35		51.7		3.52		12.6		
	0.70		27.9		4.22		9.1		
	1.05		19.6		4.92		8.2		
	1.41		13.3		5.62		6.3		
<b>3.52</b>	1.76		7.7	<b>8.44</b>	0.00	188.1	139.7		
	2.11		6.1		0.35		117.3		
	2.46		4.3		0.70		102.0		
					1.41		50.6		
					2.11		33.6		
					2.81		25.2		
					3.52		18.7		
					4.22		13.8		
			4.92		9.7				
			5.62		9.4				
			6.33	7.6					
			7.03						