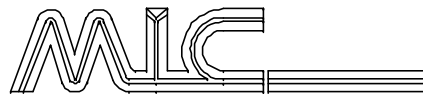
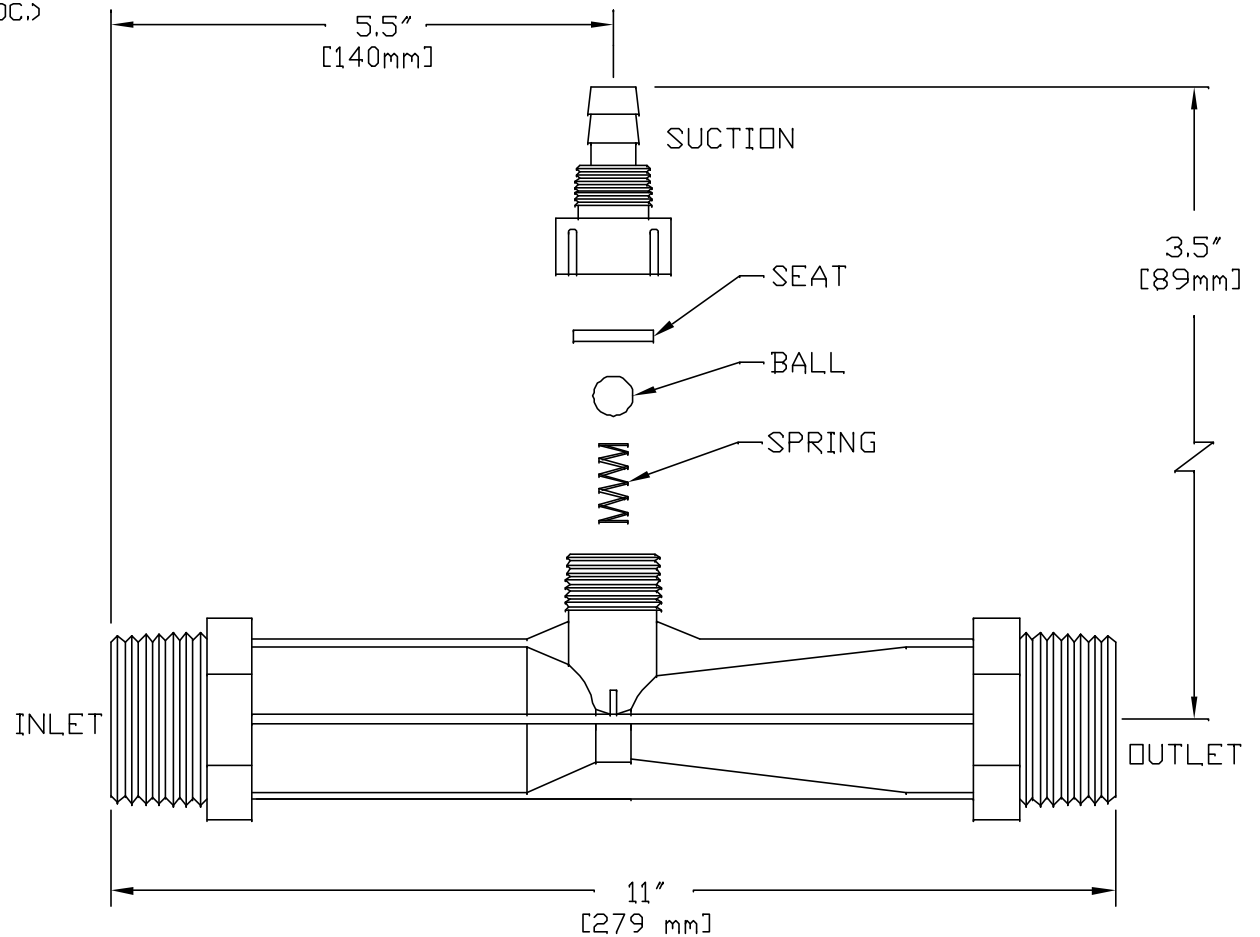


NOTES:

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				

Mazzei Injector Corporation - Injector Performance Table									
Injector Model				1583					
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	43.9	514.1	4.22	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		
0.70	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								
1.05	0.00	76.0	852.5	4.92	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		
1.41	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		
1.76	0.00	98.2	858.4	5.62	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		
2.11	0.00	107.5	857.3				2.11		876.6
	0.35		856.9		2.81		834.5		
	0.70		801.1		3.52		671.6		
	1.05		633.1		4.22		352.7		
	1.41		475.2		4.57		45.3		
	1.76		69.3						
2.46	0.00	116.2	858.2	6.33	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		
2.81	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	7.03	0.00	196.4	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						
3.16	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	8.44	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							
3.52	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>50</b>	25	18.9	<b>120</b>	0	50.4	296.0	
	30	14.0		5		248.5	
	35	9.8		10		216.2	
	40	6.7		20		107.1	
				30		71.1	
				40		53.3	
				50		39.7	
				60		29.3	
		70	20.6				
		80	19.9				
		90	16.1				
		100					

<b>Mazzei Injector Corporation - Injector Performance Table</b>									
<b>Injector Model</b>				<b>1583</b>					
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	91.7				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>	0.00	121.4	92.1	<b>8.44</b>	0.00	188.1	139.7		
	0.35		51.7		0.35		117.3		
	0.70		27.9		0.70		102.0		
	1.05		19.6		1.41		50.6		
	1.41		13.3		2.11		33.6		
	1.76		8.9		2.81		25.2		
	2.11		6.6		3.52		18.7		
	2.46		4.6		4.22		13.8		
2.81	3.2	4.92	9.7						
			3.2				5.62		9.4
					6.33		7.6		
					7.03				