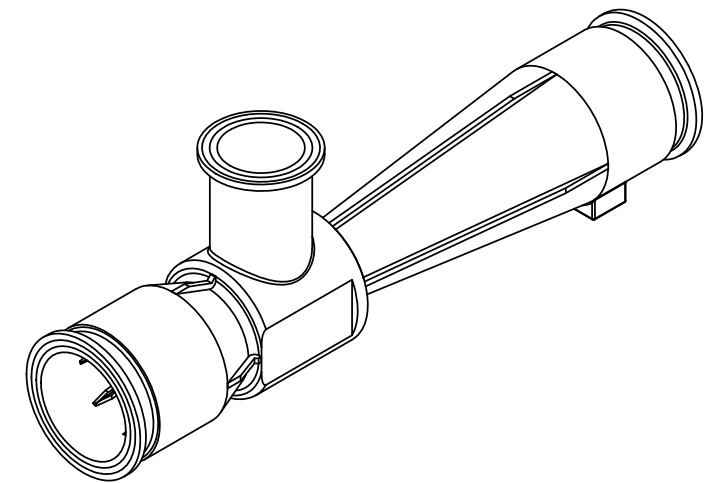


NOTES:


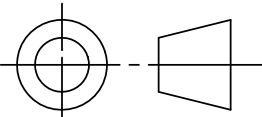
1. MATERIAL OF CONSTRUCTION: CD3MN STAINLESS STEEL
2. MTR/HEAT NUMBERS ARE PROVIDED "AS BUILT" AND SHALL MEET APPLICABLE MATERIAL SPECIFICATIONS.
3. INLET/OUTLET CONNECTION:
2" DIA., SANITARY TRI-CLAMP FITTING
MATERIAL: CD3MN
SPECIFICATION: ASME BPE-2009
4. SUCTION PORT CONNECTION:
1.50" DIA., SANITARY TRI-CLAMP FITTING
MATERIAL: CD3MN
SPECIFICATION: ASME BPE-2009
5. WELDING JOINTS TO BE COMPLETE JOINT PENETRATION, WHERE POSSIBLE.
6. DYE PENETRANT TESTING IN ACCORDANCE WITH ASME B31.3 NORMAL SERVICE RECOMMENDATIONS WILL BE PERFORMED ON A MINIMUM OF 20% OF LINEAR LENGTH OF WELDS; OR HYDROSTATIC TESTING WILL BE PERFORMED AS PART OF MAZZEI'S NON-DESTRUCTIVE TESTING PROCEDURE.
7. CLEANED FOR PASSIVATION PER ASTM A380 GUIDELINES.
8. PASSIVATED PER ASTM A967 SPECIFICATION.
9. WELD MAP, NON DESTRUCTIVE TESTING (NDT), CLEANING AND INSPECTION REPORTS TO BE PROVIDED BY MAZZEI.
10. MAZZEI RECOMMENDS INSTALLING THE INJECTOR IN A HORIZONTAL POSITION. INJECTORS MAY BE INSTALLED IN A VERTICAL POSITION WITH THE LIQUID FLOW UPWARDS. HOWEVER, IN CERTAIN APPLICATIONS THIS MAY AFFECT PERFORMANCE. PLEASE REFER TO MAZZEI TECHNICAL BULLETIN No. 11; "MAZZEI INJECTOR INSTALLATION RECOMMENDATIONS FOR GAS TO LIQUID MIXING APPLICATIONS".

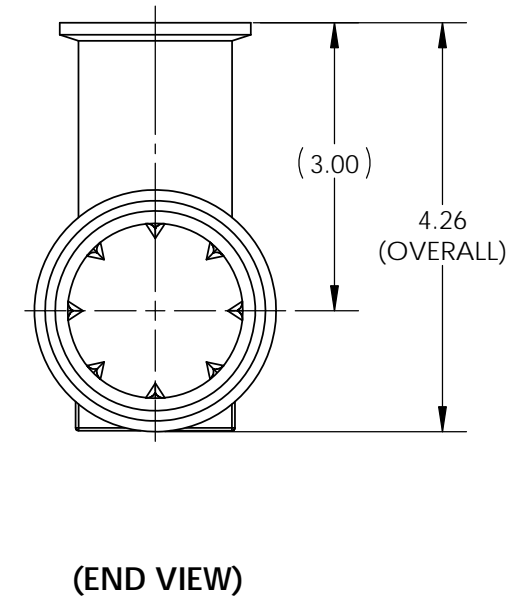
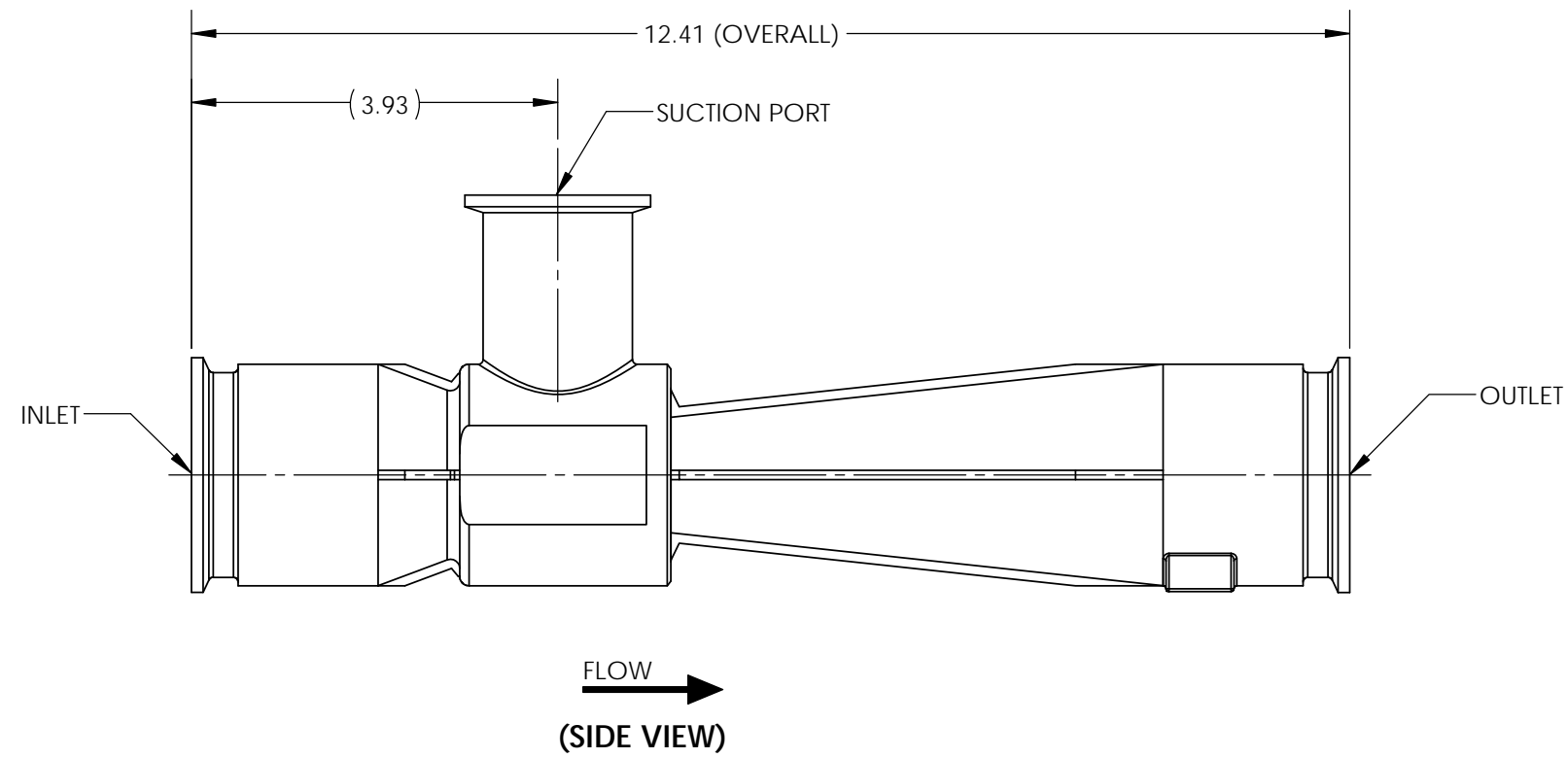
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
NC	RELEASED FOR SUBMITTAL.	4/12/2013	P. BANKOWSKI




(ISOMETRIC VIEW)
(FOR REFERENCE ONLY)

SUBMITTAL DRAWING

SUBMITTAL NOTICE	CONFIDENTIALITY NOTICE	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE $\pm .1/2^\circ$ 1 PL $\pm .125$ 2 PL $\pm .060$ 3 PL $\pm .030$ INTERPRET DIM AND TOL PER ASME Y14.5M-1994	APPROVALS	DATE		MAZZEI INJECTOR CO., LLC 500 ROOSTER DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 363-6500 FAX: (661)363-7500 WWW.MAZZEI.NET			
ANY RECOMMENDATIONS FOR PRODUCT AND/OR SYSTEM DESIGN, WHETHER CONTAINED IN A DOCUMENT, WITHIN THIS DRAWING, COMMUNICATED BY ELECTRONIC MEANS OR GIVEN VERBALLY, ARE INTENDED SOLELY AS GUIDELINES TO ACTUAL SYSTEM DESIGN. SAID RECOMMENDATIONS ARE BASED UPON INFORMATION SUPPLIED BY OTHERS, THE ACCURACY OF WHICH IS BEYOND VERIFICATION BY MAZZEI INJECTOR CO. LLC. THEREFOR MAZZEI CANNOT AND DOES NOT WARRANT THE SUITABILITY OF ITS PRODUCTS FOR A PARTICULAR SERVICE NOR THE PERFORMANCE OF ANY SYSTEM CONTAINING COMPONENTS MADE OR SOLD BY MAZZEI.	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAZZEI INJECTOR COMPANY LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAZZEI IS STRICTLY PROHIBITED.	THIRD ANGLE PROJECTION	DRAWN: T. JOHNS	4/12/2013		INJECTOR; MODEL SSC2081-M			
			CHECKED: J. MILLAN	4/12/2013	SIZE: B				
	DRAWING MAY NOT BE PRINTED FULL SIZE DO NOT SCALE		APPROVED: P. BANKOWSKI	4/12/2013	SCALE: NONE	WEIGHT: 6 LBS	SHEET: 1 OF 2		
			QA: -						
			CUSTOMER APPROVAL: -						
			CUSTOMER: NA						

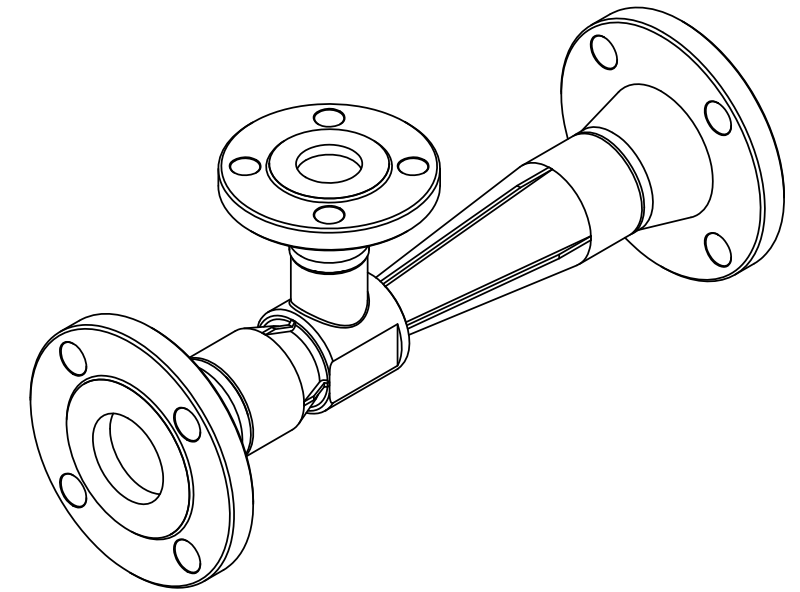


		MAZZEI INJECTOR CO., LLC 500 ROOSTER DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 363-6500 FAX: (661)363-7500 WWW.MAZZEI.NET		
		TITLE: INJECTOR; MODEL SSC2081-M		
SIZE:	JOB NO.:	DRAWING NUMBER:	REV.:	
B	NA	SSC02081MBB00-SUB	NC	
SCALE:	WEIGHT:	SHEET:		
1:2	6 LBS	2 OF 2		

NOTES:

1. MATERIAL OF CONSTRUCTION: CD3MN/2205 DUPLEX STAINLESS STEEL
2. MTR/HEAT NUMBERS ARE PROVIDED "AS BUILT" AND SHALL MEET APPLICABLE MATERIAL SPECIFICATIONS.
3. FLANGE BOLTS HOLES TO STRADDLE COMMON CENTERLINES, UNLESS OTHERWISE NOTED.
4. INLET/OUTLET CONNECTION: 2" DIA., ANSI B16.5, CLASS 150, SCHED. 40, RAISED FACE - WELD NECK FLANGE.
5. SUCTION PORT CONNECTION: 1.25" DIA., ANSI B16.5, CLASS 150, SCHED. 40, RAISED FACE - WELD NECK FLANGE.
6. WELDING JOINTS TO BE COMPLETE JOINT PENETRATION, WHERE POSSIBLE.
7. DYE PENETRANT TESTING IN ACCORDANCE WITH ASME B31.3 NORMAL SERVICE RECOMMENDATIONS WILL BE PERFORMED ON A MINIMUM OF 20% OF LINEAR LENGTH OF WELDS; OR HYDROSTATIC TESTING WILL BE PERFORMED AS PART OF MAZZEI'S NON-DESTRUCTIVE TESTING PROCEDURE.
8. CLEANED FOR PASSIVATION PER ASTM A380 GUIDELINES.
9. PASSIVATED PER ASTM A967 SPECIFICATION.
10. WELD MAP, NON DESTRUCTIVE TESTING (NDT), CLEANING AND INSPECTION REPORTS TO BE PROVIDED BY MAZZEI.
11. MAZZEI RECOMMENDS INSTALLING THE INJECTOR IN A HORIZONTAL POSITION OR IN A VERTICAL POSITION WITH THE LIQUID FLOW UP. MAZZEI DOESN'T HAVE ANY PREFERENCE FOR THE POSITION OF THE GAS CONNECTION, IT CAN POINT IN ANY DIRECTION, TOP, BOTTOM OR ON THE SIDE.

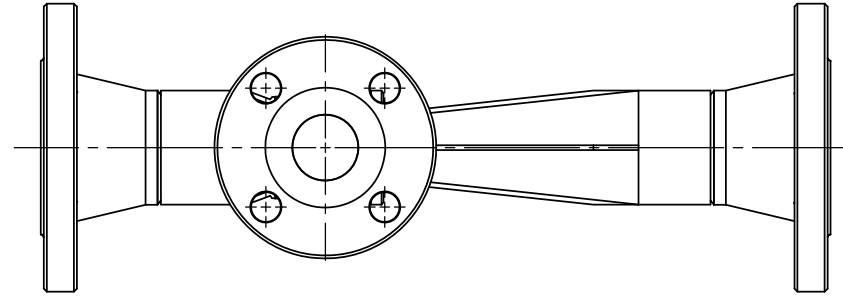
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
NC	RELEASED FOR SUBMITTAL.	11/9/2012	P. BANKOWSKI



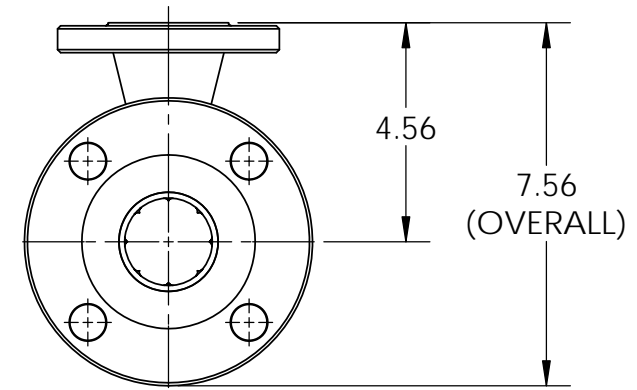
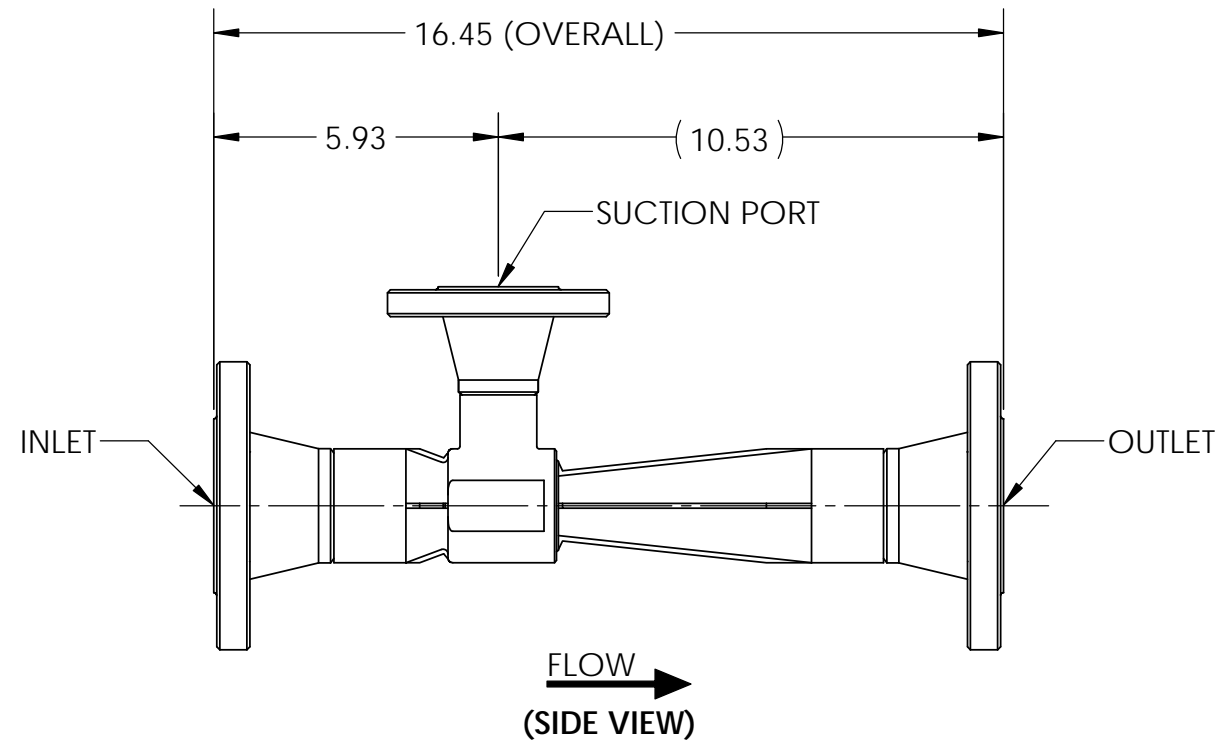
(ISOMETRIC VIEW)
(FOR REFERENCE ONLY)

SUBMITTAL DRAWING


SUBMITTAL NOTICE	CONFIDENTIALITY NOTICE	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES TOL ON ANGLE $\pm .1/2^\circ$ 1 PL $\pm .125$ 2 PL $\pm .060$ 3 PL $\pm .030$ INTERPRET DIM AND TOL PER ASME Y14.5M-1994	APPROVALS	DATE		MAZZEI INJECTOR CO., LLC 500 ROOSTER DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 363-6500 FAX: (661)363-7500 WWW.MAZZEI.NET			
ANY RECOMMENDATIONS FOR PRODUCT AND/OR SYSTEM DESIGN, WHETHER CONTAINED IN A DOCUMENT, WITHIN THIS DRAWING, COMMUNICATED BY ELECTRONIC MEANS OR GIVEN VERBALLY, ARE INTENDED SOLELY AS GUIDELINES TO ACTUAL SYSTEM DESIGN. SAID RECOMMENDATIONS ARE BASED UPON INFORMATION SUPPLIED BY OTHERS, THE ACCURACY OF WHICH IS BEYOND VERIFICATION BY MAZZEI INJECTOR CO. LLC. THEREFOR MAZZEI CANNOT AND DOES NOT WARRANT THE SUITABILITY OF ITS PRODUCTS FOR A PARTICULAR SERVICE NOR THE PERFORMANCE OF ANY SYSTEM CONTAINING COMPONENTS MADE OR SOLD BY MAZZEI.	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAZZEI INJECTOR COMPANY LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAZZEI IS STRICTLY PROHIBITED.	THIRD ANGLE PROJECTION 	DRAWN: T. JOHNS	11/9/2012		TITLE: INJECTOR; MODEL SSC2081-M	SIZE:	JOB NO.:	DRAWING NUMBER:
DRAWING MAY NOT BE PRINTED FULL SIZE DO NOT SCALE			CHECKED: J. BENNETT	11/9/2012	SCALE:		NA	WEIGHT:	SSC02081MAA00-SUB
		APPROVED: P. BANKOWSKI	11/9/2012	NONE	21 LBS		SHEET:	1 OF 2	



(TOP VIEW)

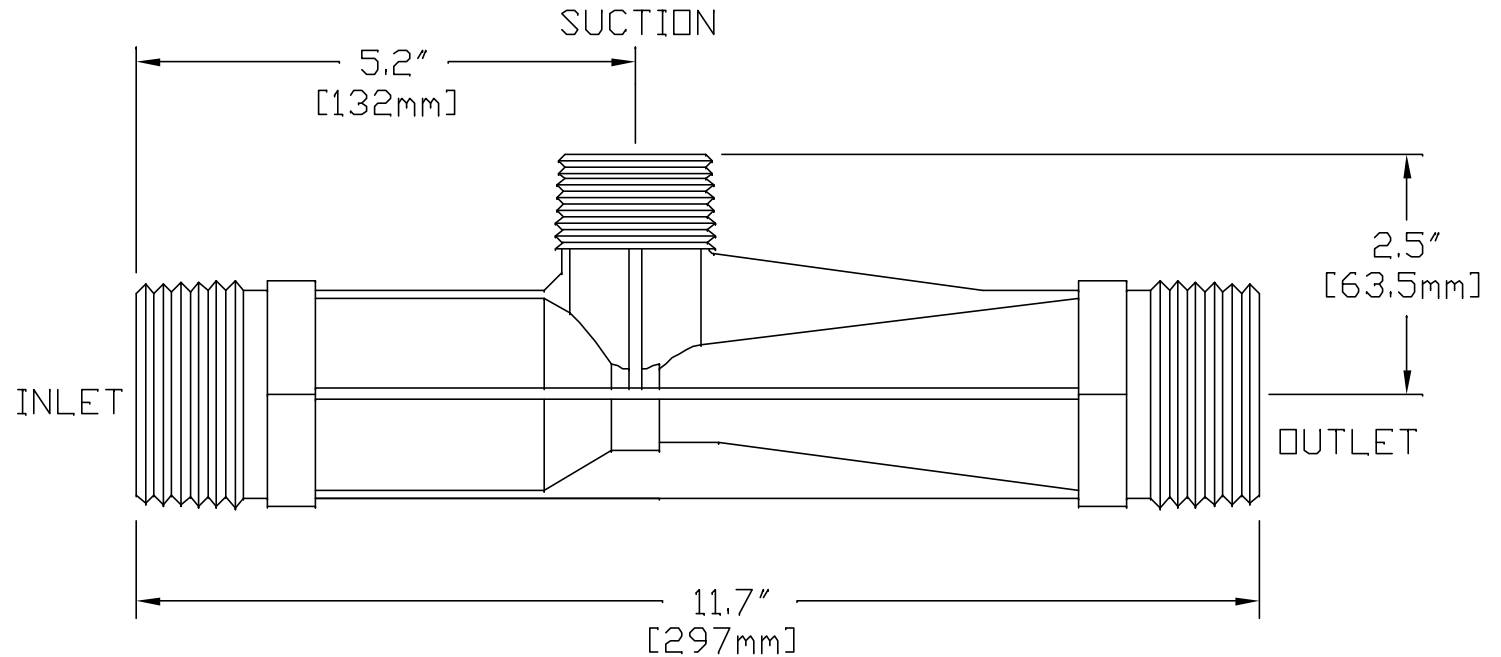


(END VIEW)

		MAZZEI INJECTOR CO., LLC 500 ROOSTER DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 363-6500 FAX: (661) 363-7500 WWW.MAZZEI.NET		
		TITLE: INJECTOR; MODEL SSC2081-M		
SIZE:	JOB NO.:	DRAWING NUMBER:	REV.:	
B	NA	SSC02081MAA00-SUB	NC	
SCALE:	WEIGHT:	SHEET:		
1:4	21 LBS	2 OF 2		

NOTES:

1. INLET AND OUTLET: 2" MNPT OR BSPT (ISO-R)
2. SUCTION PORT: 1.25" MNPT OR BSPT (ISO-R)
3. MATERIAL: GLASS REINFORCED POLYPROPYLENE OR PVDF (KYNAR)
4. MAXIMUM TEMPERATURE RATING:
 POLYPROPYLENE: 150 F. (65.5 C.)
 PVDF (KYNAR): 200 F. (93.3 C.)
5. MAXIMUM PRESSURE RATING AT 68 F. (20 C.)
 POLYPROPYLENE: 150 PSIG (10.3 BAR)
 PVDF (KYNAR): 200 PSIG (13.8 BAR)



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



Mazzei

Mazzei Injector Company, LLC
 500 Rooster Drive, Bakersfield, CA 93307
 Tel: 661.363.6500 Fax: 661.363.7500

DATE	12-19-00	TITLE	
DRAWN BY	JRM	MODEL 2081-A INJECTOR	
REVIEWED BY	RST	NUMBER	REV.
SCALE	NONE	JRM-22	
MATERIALS: SEE NOTES		PAGE (1) OF (1)	

Mazzei Injector Company, LLC- Injector Performance Table							
Injector Model				2081			
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	34	630	60	0	119	631
	1		630		5		631
	2		630		10		631
	3		215		15		631
	4		136		20		631
10	0	48	630		30		600
	2		630		35		509
	5		468		40		381
	7		149		45		217
	8		30		0		631
15	0	59	631	70	5	128	631
	5		623		10		631
	7		576		15		631
	10		213		20		631
	12		77		30		631
20	0	68	631		40		529
	5		631		45		440
	10		468		50		326
	12		299		55		142
	15		152		0		631
25	0	77	631	80	5	137	631
	5		631		10		631
	10		627		15		631
	15		404		20		631
	20		134		30		631
30	0	84	631		40		604
	5		631		50		506
	10		631		60		270
	15		511		65		61
	20		341		0		631
35	0	91	631	90	5	145	631
	5		631		10		631
	10		631		20		631
	15		627		30		631
	20		460		40		631
40	0	97	631		50		602
	5		631		60		459
	10		631		70		179
	15		631		75		
	20		524		0		631
45	0	103	631	100	5	153	631
	10		631		10		631
	15		631		20		631
	20		607		30		631
	25		508		40		631
50	0	108	631		50		622
	5		631		60		594
	10		631		70		412
	15		631		80		121
	20		631		0		631
50	25	108	588	120	5	158	631
	30		453		10		631
	35		300		20		631
	40		115		30		631
					40		631
					50		631
					60		612
					70		595
		80	523				
		90	309				
		100					

Mazzei Injector Company, LLC - Injector Performance Table							
Injector Model				2081			
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	130	2384	4.22	0.00	449	2387
	0.07		2384		0.35		2387
	0.14		2384		0.70		2387
	0.21		812		1.05		2387
	0.28		514		1.41		2387
0.70	0.00	183	2384		2.11		2273
	0.14		2384		2.46		1925
	0.35		1770		2.81		1441
	0.49		565		3.16		820
	0.56		114		0.00		2387
1.05	0.00	224	2387	0.35	2387		
	0.35		2359	0.70	2387		
	0.49		2182	1.05	2387		
	0.70		807	1.41	2387		
	0.84		290	2.11	2387		
1.41	0.00	259	2387	2.81	2002		
	0.35		2387	3.16	1667		
	0.70		1772	3.52	1235		
	0.84		1130	3.87	538		
	1.05		574	0.00	2387		
1.76	0.00	290	2387	0.35	2387		
	0.35		2387	0.70	2387		
	0.70		2372	1.05	2387		
	1.05		1529	1.41	2387		
	1.41		508	2.11	2387		
2.11	0.00	317	2387	2.81	2287		
	0.35		2387	3.52	1915		
	0.70		2387	4.22	1020		
	1.05		1935	4.57	230		
	1.41		1292	0.00	2387		
	1.76		234	0.35	2387		
2.46	0.00	343	2387	0.70	2387		
	0.35		2387	1.41	2387		
	0.70		2387	2.11	2387		
	1.05		2372	2.81	2387		
	1.41		1741	3.52	2278		
	1.76		968	4.22	1736		
2.81	0.00	366	2387	4.92	678		
	0.35		2387	5.27			
	0.70		2387	0.00	2387		
	1.05		2387	0.35	2387		
	1.41		1982	0.70	2387		
	1.76		1493	1.41	2387		
3.16	2.11	389	639	2.11	2387		
	0.00		2387	2.81	2387		
	0.35		2387	3.52	2353		
	0.70		2387	4.22	2247		
	1.05		2387	4.92	1561		
	1.41		2296	5.62	457		
	1.76		1921	0.00	2387		
	2.11		1292	0.35	2387		
2.46	564	0.70	2387				
3.52	0.00	410	2387	1.41	2387		
	0.35		2387	2.11	2387		
	0.70		2387	2.81	2387		
	1.05		2387	3.52	2387		
	1.41		2387	4.22	2317		
	1.76		2225	4.92	2253		
	2.11		1714	5.62	1980		
	2.46		1135	6.33	1171		
	2.81		436	7.03			

Mazzei Injector Company, LLC - Injector Performance Table							
Injector Model				2081			
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
5	0	33		60	0	114	1046
	1				5		865
	2				10		667
	3				15		422
	4				20		301
10	0	46	422		30		152
	2		230		35		139
	5		61		40		127
	7		48		45		105
	8		33				
15	0	57	523	70	0	123	1129
	5		150		5		955
	7		80		10		790
	10		63		15		568
	12		41		20		405
20	0	66	606		30		198
	5		244		40		152
	10		88		45		141
	12		79		50		125
	15		61		55		96
25	0	73	670	80	0	131	1202
	5		365		5		1031
	10		137		10		894
	15		88		15		697
	20		52		20		485
30	0	80	734		30		281
	5		468		40		175
	10		211		50		153
	15		107		60		120
	20		89		65		85
35	0	87	798	90	0	139	
	5		559		5		
	10		287		10		
	15		140		20		
	20		107		30		
40	0	93	853		40		
	5		634		50		
	10		344		60		
	15		199		70		
	20		124		75		
45	0	98	899	100	0	147	
	5		696		5		
	10		433		10		
	15		259		20		
	20		144		30		
	25		123		40		
	30		109		50		
	35		80		60		
50	0	104	954		0		
	5		761		5		
	10		519		10		
	15		321		20		
	20		195		30		
	25		139		40		
	30		125		50		
	35		109		60		
40	74	70					

Mazzei Injector Company, LLC - Injector Performance Table									
Injector Model				2081					
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		
0.35	0.00	125		4.22	0.00	431	494		
	0.07				0.35		408		
	0.14				0.70		315		
	0.21				1.05		199		
	0.28				1.41		142		
0.7	0.00	174	199				2.11		72
	0.14				2.46		66		
	0.35				2.81		60		
	0.49				3.16		49		
	0.56				0.00		533		
1.05	0.00	216	247	4.92	0.35	466	451		
	0.35				0.70		373		
	0.49				1.05		268		
	0.70				1.41		191		
	0.84				2.11		93		
1.41	0.00	250	286				2.81		72
	0.35				3.16		67		
	0.70				3.52		59		
	0.84				3.87		45		
	1.05				0.00		567		
1.76	0.00	276	316	5.62	0.35	496	487		
	0.35				0.70		422		
	0.70				1.05		329		
	1.05				1.41		229		
	1.41				2.11		132		
2.11	0.00	303	346				2.81		83
	0.35				3.52		72		
	0.70				4.22		57		
	1.05				4.57		40		
	1.41				0.00				
2.46	0.00	329	377	6.33	0.35	526			
	0.35				0.70				
	0.70				1.41				
	1.05				2.11				
	1.41				2.81				
2.81	0.00	352	403				3.52		
	0.35				4.22				
	0.70				4.92				
	1.05				5.27				
	1.41				0.00				
3.16	0.00	371	424	7.03	0.35	556			
	0.35				0.70				
	0.70				1.41				
	1.05				2.11				
	1.41				2.81				
3.52	0.00	394	450				3.52		
	0.35				4.22				
	0.70				4.92				
	1.05				5.62				
	1.41								
	1.76		58						
	2.11		51						
	2.46		38						
			450						
			359						
		245							
		152							
		92							
		66							
		59							
		52							
		35							