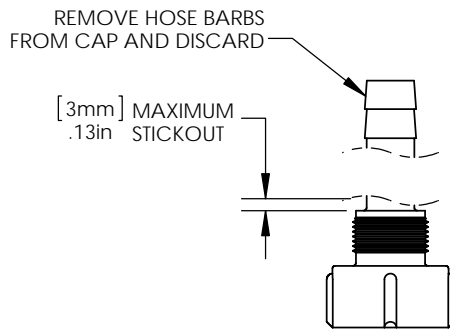
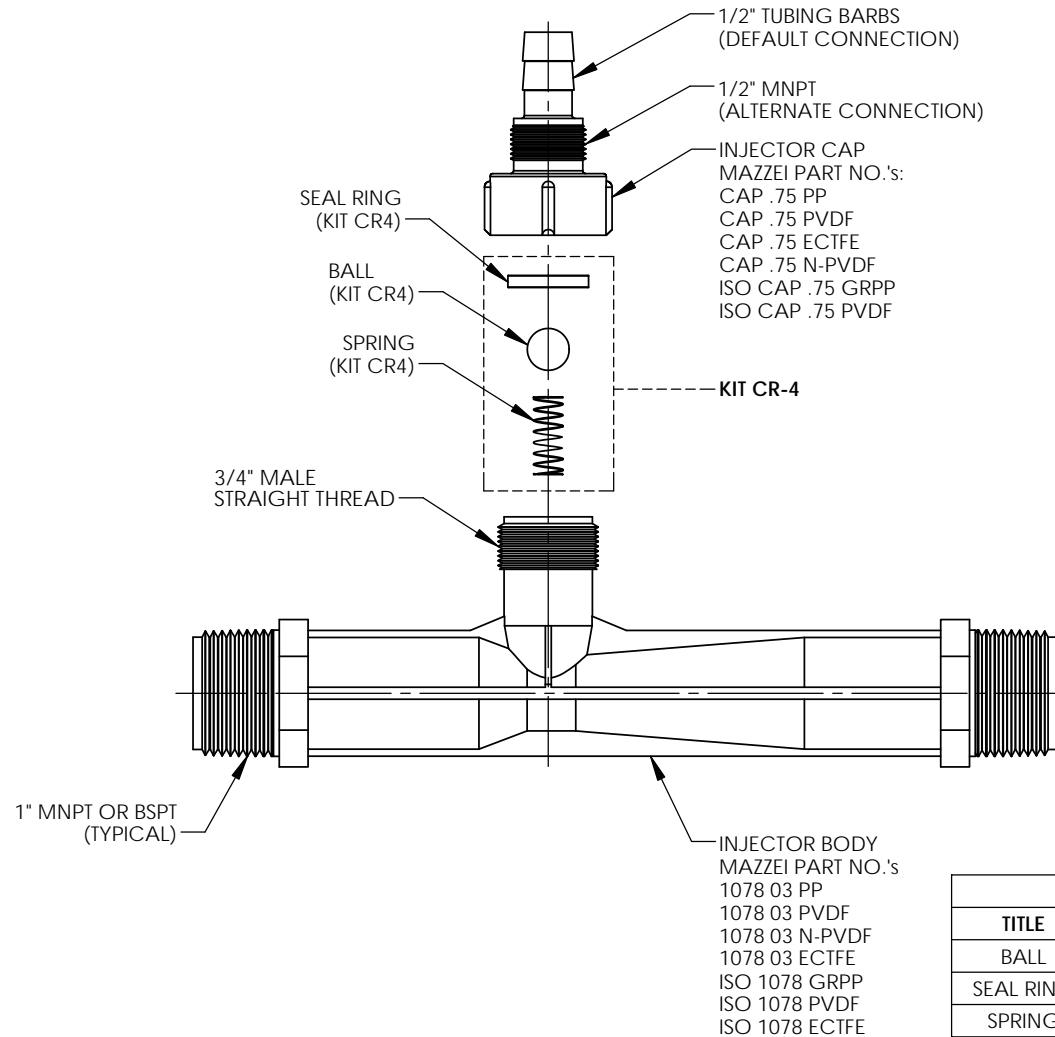


NOTES:

1. MADE IN THE U.S.A.
2. U.S. PATENT No. 5,863,128
3. U.S. No. 3,852,076 AND INTERNATIONAL REGISTERED TRADEMARKS
4. MATERIAL: GLASS FILLED POLYPROPYLENE (PP) OR POLYVINYLIDENE FLOURIDE (PVDF) OR ETHYLENE CHLOROTRIFLUOROETHYLENE (ECTFE)
5. INLET/OUTLET CONNECTION:
1" MNPT OR BSPT
6. SUCTION PORT CONNECTION:

DEFAULT - 1/2" I.D. TUBING BARB WITH INTEGRATED CHECK VALVE

ALTERNATE - 1/2" MNPT - SEE ALTERNATE CAP MODIFICATION DETAIL
7. FOR INSTALLATION RECOMMENDATIONS REFER TO MAZZEI TECHNICAL BULLETINS No. 4, No. 5, No. 6, No. 10 AND No. 11, WHICH CAN BE FOUND IN THE "KNOWLEDGE CENTER" AT WWW.MAZZEI.NET.
8. MAZZEI INJECTOR CO., LLC.
500 ROOSTER DR.
BAKERSFIELD, CA 93307
TEL: 661.363.6500
WEB: WWW.MAZZEI.NET



"CAP MODIFICATION DETAIL"
(ALTERNATE)

- 1/2" TUBING BARBS (DEFAULT CONNECTION)
- 1/2" MNPT (ALTERNATE CONNECTION)
- INJECTOR CAP MAZZEI PART NO.'s:
CAP .75 PP
CAP .75 PVDF
CAP .75 ECTFE
CAP .75 N-PVDF
ISO CAP .75 GRPP
ISO CAP .75 PVDF

- SEAL RING (KIT CR4)
- BALL (KIT CR4)
- SPRING (KIT CR4)
- KIT CR-4

3/4" MALE STRAIGHT THREAD

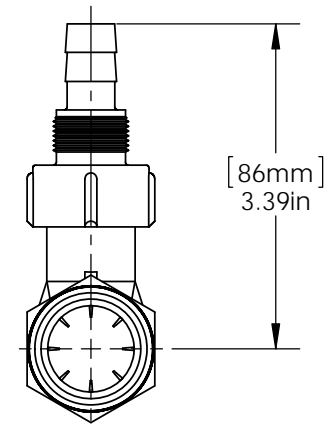
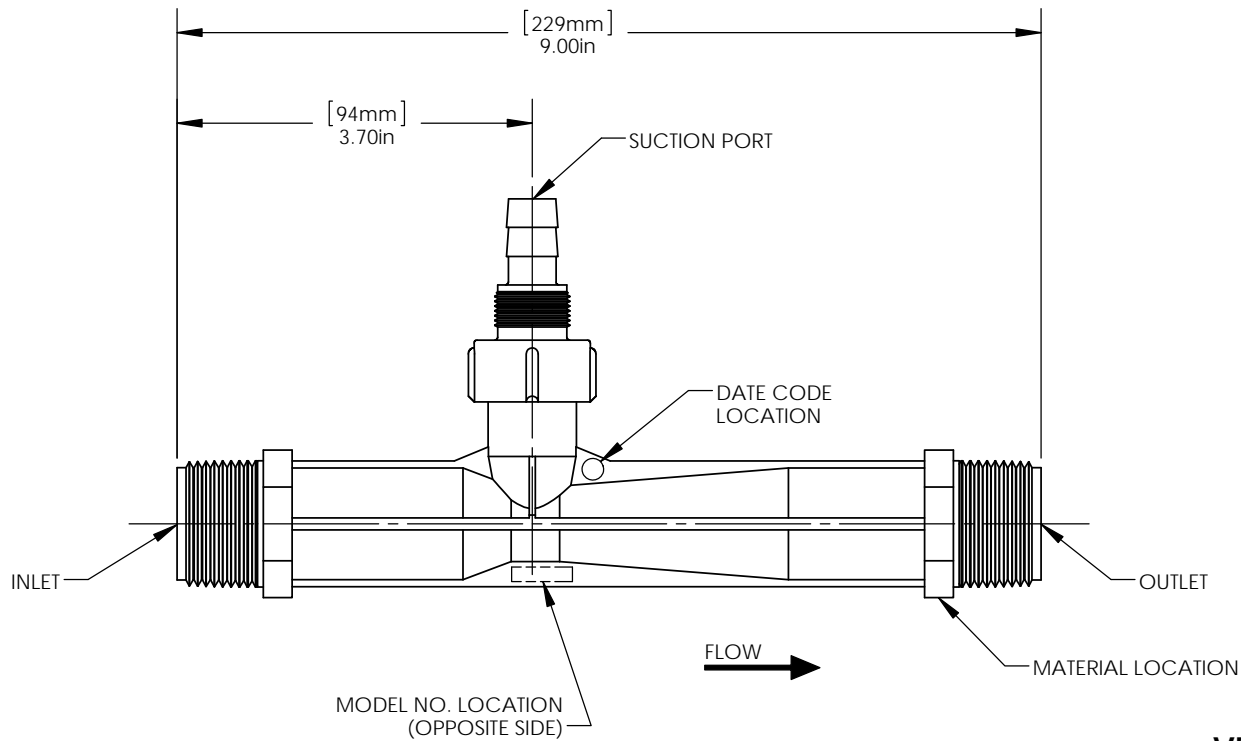
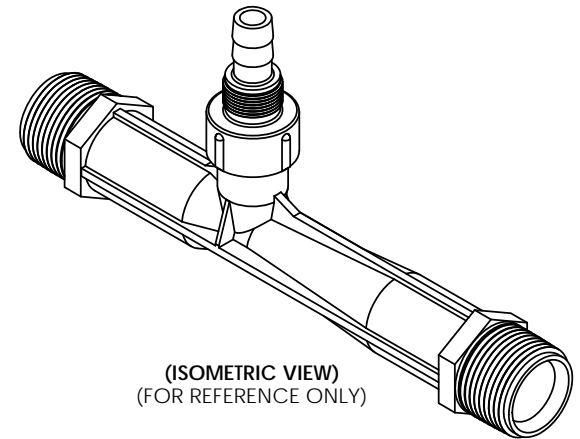
1" MNPT OR BSPT (TYPICAL)

- INJECTOR BODY MAZZEI PART NO.'s
1078 03 PP
1078 03 PVDF
1078 03 N-PVDF
1078 03 ECTFE
ISO 1078 GRPP
ISO 1078 PVDF
ISO 1078 ECTFE

KIT CR-4	
TITLE	MATERIAL
BALL	TEFLON ® (PTFE)
SEAL RING	KEL-F ® (PCTFE)
SPRING	HASTELLOY C-22

VENDOR ITEM CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			TITLE: 1" INJECTOR; MODEL 1078 03			
DRAWN:	T.JOHNS		DRAWING NO.: 107803-PP/PVDF/ECTFE			
DATE:	07/19/13	SIZE:	WEIGHT:	SCALE:	REV.:	SHEET:
APPROVED:	P. BANKOWSKI	A	N/A	1:2	NC	1 OF 2



VENDOR ITEM CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		 Mazzei [®]	TITLE: 1" INJECTOR; MODEL 1078 03		
DRAWN: T.JOHNS	DATE: 07/19/13		DRAWING NO.: 107803-PP/PVDF/ECTFE		
APPROVED: P. BANKOWSKI	SIZE: A	WEIGHT: N/A	SCALE: 1:2	REV.: NC	SHEET: 2 OF 2

Mazzei Injector Company, LLC- Injector Performance Table							
Injector Model				1078			
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	5.5	101.5	60	0	19.0	92.7
	1		46.4		5		92.7
	2		22.2		10		92.7
	3		2.7		15		92.7
	4				20		92.7
10	0	7.7	105.8		30		93.1
	2		75.7		35		91.7
	5		41.8		40		77.1
	7		19.2		45		44.4
	8		4.4		70		0
15	0	9.5	101.3	5		93.4	
	5		79.9	10		93.4	
	7		64.7	15		93.4	
	10		34.3	20		93.4	
	12		17.0	30		93.5	
20	0	11.0	98.2	40		92.3	
	5		95.4	45		81.9	
	10		70.0	50		54.5	
	12		51.5	55		28.8	
	15		30.3	80	0	93.9	
25	0	12.2	96.0		5	93.9	
	5		96.7		10	93.9	
	10		89.4		15	93.9	
	15		68.2		20	93.9	
	20		31.9		30	93.9	
30	0	13.4	94.4		40	94.8	
	5		94.5		50	91.5	
	10		94.5		60	52.9	
	15		82.1		65	33.0	
	20		55.4	90	0	94.5	
25	17.9	5	94.5				
35	0	14.5	94.0		10	94.5	
	5		94.0		20	94.5	
	10		94.0		30	94.5	
	15		91.9		40	95.6	
	20		74.1		50	94.4	
40	25	47.3	60		84.7		
	0	15.5	93.2		70	39.6	
	5		93.2		75	20.6	
	10		93.2	100	0	94.2	
	15		93.2		5	94.2	
20	91.9		10		94.2		
25	72.2	20	94.2				
30	42.7	30	94.2				
45	0	16.4	92.8		40	94.2	
	5		92.8		50	94.0	
	10		92.8		60	94.9	
	15		92.8		70	81.4	
	20		93.9		80	30.6	
	25		86.9	120	0	94.5	
	30		66.2		5	94.5	
35	36.7	10	94.5				
50	0	17.3	92.4		20	94.5	
	5		92.4		30	94.5	
	10		92.4		40	94.5	
	15		92.4		50	94.5	
	20		92.4		60	95.2	
	25		92.4		70	94.5	
	30		86.4		80	90.8	
	35		64.3	90	61.2		
40	35.0	100	22.3				

Mazzei Injector Company, LLC- Injector Performance Table									
Injector Model				1078					
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	20.7	384.3	4.22	0.00	71.8	350.9		
	0.07		175.7		0.35		350.9		
	0.14		83.9		0.70		350.9		
	0.21		10.3		1.05		350.9		
	0.28				1.41		350.9		
0.70	0.00	29.3	400.4				2.11		352.3
	0.14		286.5		2.46		347.2		
	0.35		158.2		2.81		292.0		
	0.49		72.6		3.16		168.1		
	0.56		16.7						
1.05	0.00	35.9	383.6	4.92	0.00	77.5	353.4		
	0.35		302.5		0.35		353.4		
	0.49		244.7		0.70		353.4		
	0.70		129.8		1.41		353.4		
	0.84		64.3		2.11		353.8		
1.41	0.00	41.5	371.8				2.81		349.5
	0.35		361.3		3.16		309.8		
	0.70		264.9		3.52		206.4		
	0.84		195.0		3.87		109.0		
	1.05		114.8						
1.76	0.00	46.3	363.2	5.62	0.00	82.9	355.4		
	0.35		365.9		0.35		355.4		
	0.70		338.5		0.70		355.4		
	1.05		258.1		1.41		355.4		
	1.41		120.6		2.11		355.4		
2.11	0.00	50.8	357.1				2.81		358.7
	0.35		357.6		3.52		346.5		
	0.70		357.6		4.22		200.1		
	1.05		310.6		4.57		125.0		
	1.41		209.8						
2.46	0.00	54.8	355.7	6.33	0.00	87.9	357.6		
	0.35		355.7		0.35		357.6		
	0.70		355.7		0.70		357.6		
	1.05		347.8		1.41		362.0		
	1.41		280.6		2.11		357.1		
2.81	0.00	58.6	352.7				2.81		357.6
	0.35		352.7		3.52		357.6		
	0.70		352.7		4.22		320.6		
	1.05		347.7		4.92		149.9		
	1.41		273.3		5.27		77.9		
3.16	0.00	62.2	351.3	7.03	0.00	92.7	356.5		
	0.35		351.3		0.35		356.5		
	0.70		351.3		0.70		356.5		
	1.05		351.3		1.41		356.5		
	1.41		355.4		2.11		356.5		
3.52	0.00	65.5	349.9				2.81		356.5
	0.35		349.9		3.52		355.7		
	0.70		349.9		4.22		359.3		
	1.05		349.9		4.92		308.0		
	1.41		349.9		5.62		115.8		
3.52	0.00	65.5	349.9	8.44	0.00	101.5	357.5		
	0.35		349.9		0.35		357.5		
	0.70		349.9		0.70		357.5		
	1.05		349.9		1.41		357.5		
	1.41		349.9		2.11		357.5		
	1.76		349.7		2.81		360.4		
	2.11		327.0		3.52		357.5		
	2.46		243.4		4.22		343.8		
2.81	132.6	4.92	231.7						
					5.62				84.5
				6.33					
				7.03					

Mazzei Injector Company, LLC- Injector Performance Table							
Injector Model				1078			
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	5.2	24.3	60	0	18.2	91.5
	1		6.4		5		76.3
	2		2.7		10		57.6
	3		1.5		15		34.5
	4				20		24.4
10	0	7.4	40.1		30		14.0
	2		16.2		35		10.4
	5		4.1		40		7.3
	7		1.6		45		4.5
	8						
15	0	9.1	48.6	70	0	19.6	100.5
	5		13.1		5		81.8
	7		7.9		10		67.5
	10		3.4		15		46.3
	12		2.2		20		31.8
20	0	10.5	55.0		30		19.7
	5		22.2		40		12.5
	10		8.6		45		8.8
	12		5.6		50		7.0
	15		3.2		55		4.5
25	0	11.7	60.9	80	0	21.0	105.6
	5		33.3		5		89.6
	10		14.3		10		74.9
	15		7.5		15		57.8
	20		3.4		20		39.5
30	0	12.9	70.6		30		24.7
	5		46.4		40		17.0
	10		20.5		50		10.2
	15		11.2		60		6.3
	20		6.1		65		4.6
35	0	13.9	74.0	90	0	22.3	112.7
	5		52.9		5		96.3
	10		24.7		10		81.7
	15		13.7		20		48.9
	20		9.1		30		29.4
40	0	14.8	79.9		40		20.8
	5		57.9		50		14.9
	10		31.4		60		9.2
	15		18.9		70		5.9
	20		13.1		75		4.3
45	0	15.7	85.9	100	0	23.5	116.7
	5		62.8		5		103.1
	10		38.4		10		87.8
	15		23.3		20		62.9
	20		15.8		30		37.2
50	0	16.6	87.7		40		25.8
	5		66.5		50		18.1
	10		42.4		60		12.6
	15		25.7		70		8.4
	20		16.2		80		5.6
50	25	16.6	11.3	120	0	25.7	124.7
	30		7.0		5		110.9
	35		4.5		10		97.9
	40				20		77.8
					30		47.0
					40		33.6
					50		25.0
					60		19.2
		70	14.2				
		80	10.3				
		90	6.7				
		100	5.2				

Mazzei Injector Company, LLC- Injector Performance Table									
Injector Model				1078					
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	19.9	11.5	4.22	0.00	68.8	43.2		
	0.07		3.0		0.35		36.0		
	0.14		1.3		0.70		27.2		
	0.21		0.7		1.05		16.3		
	0.28				1.41		11.5		
0.70	0.00	28.1	18.9				2.11		6.6
	0.14		7.6		2.46		4.9		
	0.35		2.0		2.81		3.5		
	0.49		0.7		3.16		2.1		
	0.56								
1.05	0.00	34.4	22.9	4.92	0.00	74.3	47.4		
	0.35		6.2		0.35		38.6		
	0.49		3.7		0.70		31.9		
	0.70		1.6		1.05		21.9		
	0.84		1.0		1.41		15.0		
1.41	0.00	39.7	26.0				2.11		9.3
	0.35		10.5		2.81		5.9		
	0.70		4.0		3.16		4.1		
	0.84		2.7		3.52		3.3		
	1.05		1.5		3.87		2.1		
1.76	0.00	44.4	28.8	5.62	0.00	79.5	49.9		
	0.35		15.7		0.35		42.3		
	0.70		6.8		0.70		35.3		
	1.05		3.6		1.05		27.3		
	1.41		1.6		1.41		18.6		
2.11	0.00	48.7	33.3				2.11		11.7
	0.35		21.9		2.81		8.0		
	0.70		9.7		3.52		4.8		
	1.05		5.3		4.22		3.0		
	1.41		2.9		4.57		2.1		
	1.76		1.1						
2.46	0.00	52.6	34.9	6.33	0.00	84.3	53.2		
	0.35		25.0		0.35		45.5		
	0.70		11.7		0.70		38.6		
	1.05		6.5		1.05		23.1		
	1.41		4.3		1.41		13.9		
	1.76		2.6		2.11		9.8		
2.81	0.00	56.2	37.7				2.11		7.0
	0.35		27.3		2.81		4.3		
	0.70		14.8		3.52		2.8		
	1.05		8.9		4.22		2.0		
	1.41		6.2	4.92					
	1.76		3.8	5.27					
3.16	0.00	59.6	40.6	7.03	0.00	88.8	55.1		
	0.35		29.7		0.35		48.6		
	0.70		18.1		0.70		41.4		
	1.05		11.0		1.05		29.7		
	1.41		7.5		1.41		17.5		
	1.76		5.3		2.11		12.2		
	2.11		3.3		2.81		8.5		
3.52	0.00	62.8	41.4				2.81		6.0
	0.35		31.4		3.52		4.0		
	0.70		20.0		4.22		2.6		
	1.05		12.1	4.92					
	1.41		7.6	5.62					
	1.76		6.0						
	2.11		4.1						
	2.46		2.5						
	2.81		1.5						