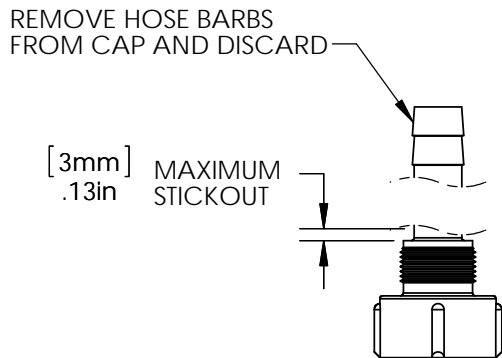
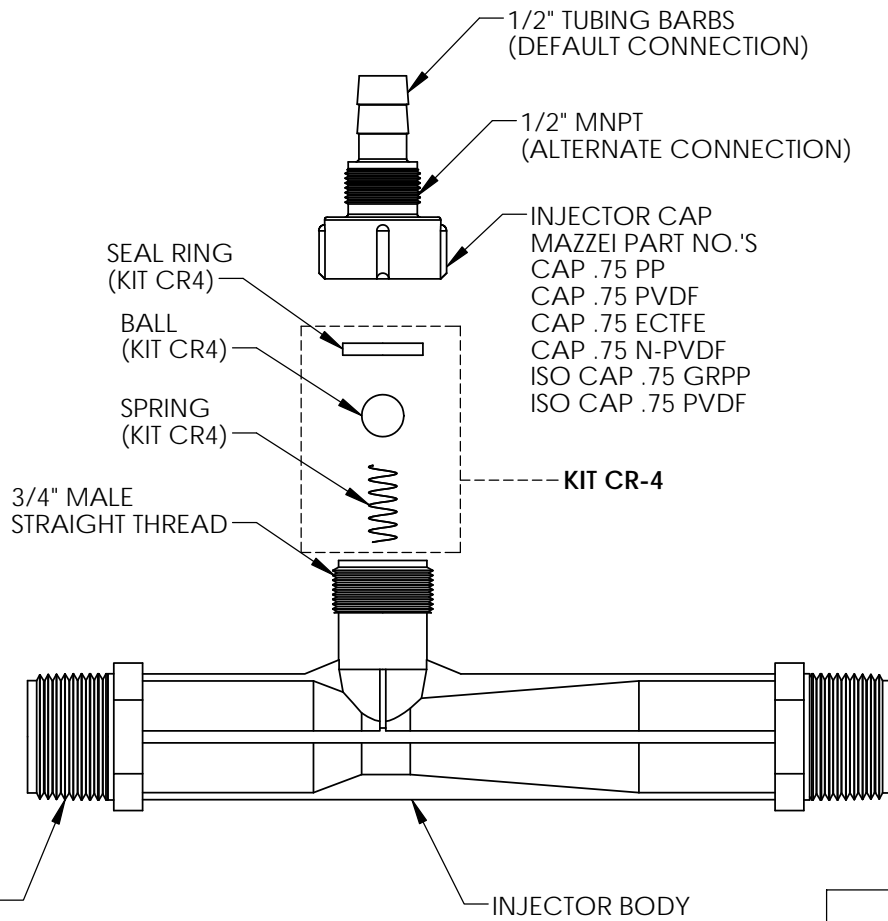


NOTES:

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 FLUORIDE (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

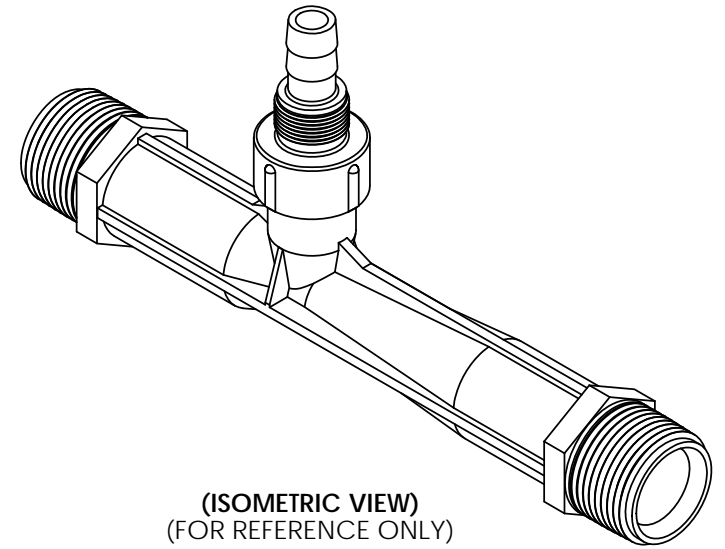


"CAP MODIFICATION DETAIL"
(ALTERNATE)

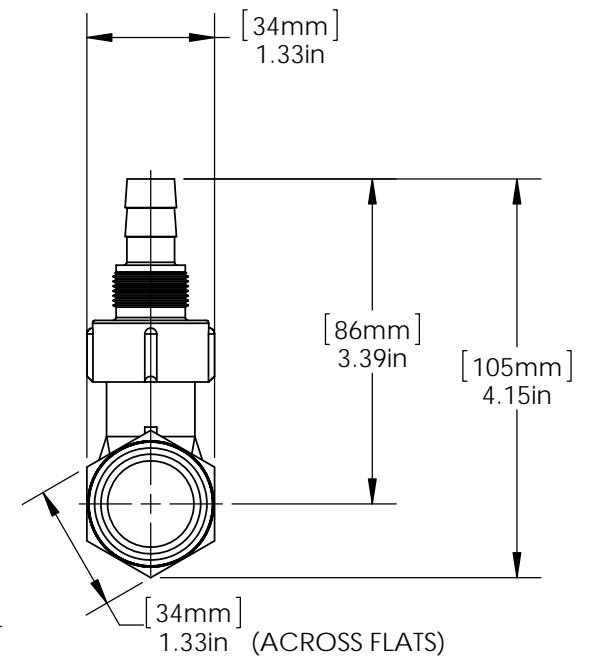
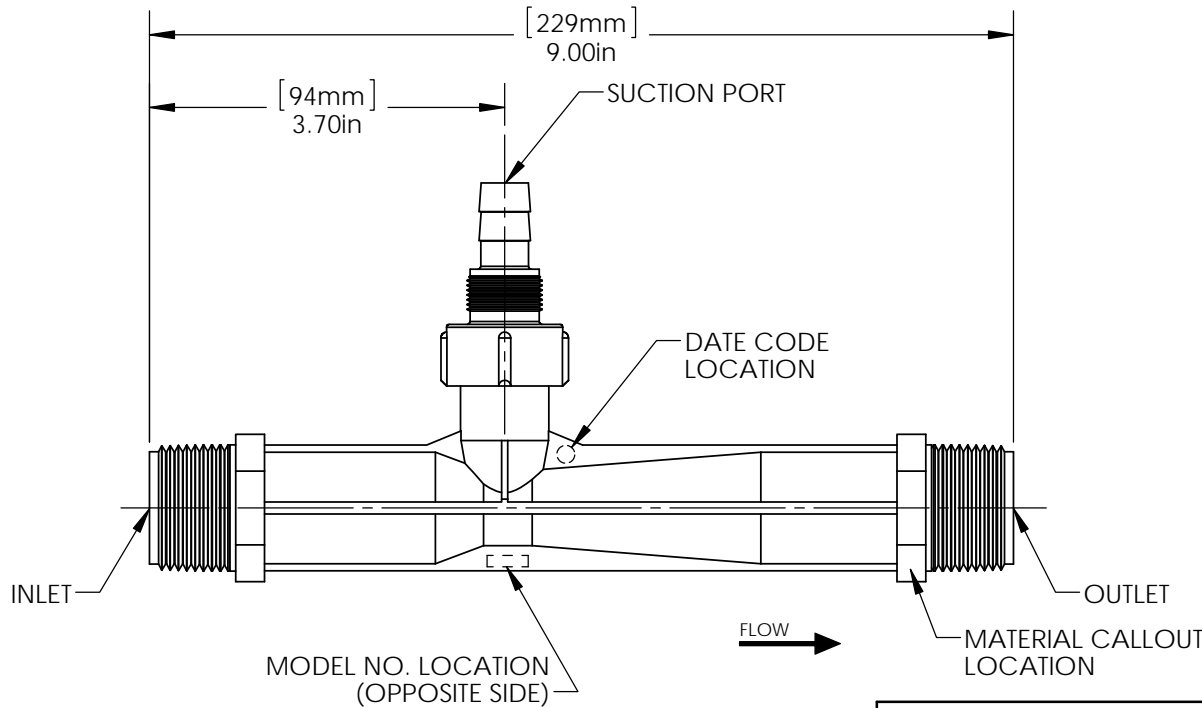
KIT CR-4	
TITLE	MATERIAL
BALL	TEFLON® (PTFE)
SEAL RING	KEL-F® (PCTFE)
SPRING	HASTELLOY C-22

INJECTOR BODY
MAZZEI PART NO.'S
0978 3 PP
0978 3 PVDF
0978 3 N-PVDF
0978 3 ECTFE
ISO 0978 3 GRPP
ISO 0978 3 PVDF
ISO 0978 3 ECTFE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			TITLE: 1" INJECTOR; MODEL 0978 3			
DRAWN:	T. JOHNS		DRAWING NO.: 0978 3 PP/PVDF/ECTFE			
DATE:	7/19/2013	SIZE:	WEIGHT:	SCALE:	REV.:	SHEET:
APPROVED:	P. BANKOWSKI	A	N/A	1:2	A	1 OF 2



(ISOMETRIC VIEW)
(FOR REFERENCE ONLY)



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		 Mazzei [®]	TITLE: 1" INJECTOR; MODEL 0978 3		
DRAWN:	T. JOHNS		DRAWING NO.:		
DATE:	7/19/2013	0978 3 PP/PVDF/ECTFE			
APPROVED:	P. BANKOWSKI	SIZE: A	WEIGHT: N/A	SCALE: 1:2	REV.: A
				SHEET: 2 OF 2	



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	4.1	18.5	60	0	14.1	73.0	
	1		5.1		5		57.0	
	2		1.8		10		37.3	
	3		0.90		15		24.7	
	4		*(3.9)		20		18.1	
10	0	5.7	29.9		30		10.7	
	2		11.2		35		7.9	
	5		3.1		40		5.6	
	7		1.2		45		*(51.5)	
	8		*(9.0)		0.85			
15	0	7.0	37.9	70	0	15.2	73.6	
	5		8.8		5		62.7	
	7		5.6		10		49.3	
	10		2.4		15		32.0	
	12		*(13.4)		1.2		20	22.9
20	0	8.1	44.1		30		14.9	
	5		14.5		40		9.2	
	10		6.0		45		6.9	
	12		4.0		50		4.7	
	15		*(16.8)		2.1		55	*(60.0)
25	0	9.1	48.0	80	0	16.2	76.3	
	5		18.7		5		67.3	
	10		8.6		10		55.9	
	15		4.6		15		38.1	
	20		*(20.8)		1.7		20	27.8
30	0	9.9	49.7		30		19.0	
	5		26.6		40		11.6	
	10		12.6		50		7.4	
	15		7.2		60		4.0	
	20		*(26.5)		3.8		65	*(67.5)
35	0	10.7	48.2	90	0	17.2	87.9	
	5		29.1		5		69.8	
	10		16.2		10		61.1	
	15		11.0		20		33.1	
	20		6.8		30		22.6	
40	0	11.5	52.0		40		16.0	
	5		38.7		50		9.9	
	10		20.2		60		7.2	
	15		13.1		70		4.4	
	25		*(34.3)		5.5		75	*(76.4)
45	0	12.2	54.8	100	0	18.2	90.9	
	5		42.5		5		76.1	
	10		23.4		10		67.3	
	15		16.1		20		39.0	
	20		11.1		30		27.7	
50	0	12.8	61.1		40		19.2	
	5		48.3		50		13.3	
	10		27.0		60		9.7	
	15		19.3		70		6.9	
	20		13.7		80		*(85.1)	
60	25	12.8	10.0	120	0	19.9	93.9	
	30		6.8		5		81.7	
	35		4.5		10		71.7	
	40		*(42.1)		2.5		20	48.3
							30	33.4
							40	23.9
							50	16.0
							60	13.4
			70		10.0			
			80		7.7			
			90	5.5				
			100	*(103)	3.9			

Copyright© 2014 REV 2014

Mazzei Injector Company, LLC
500 Rooster Drive, Bakersfield, CA 93307-9555 USA

TEL 661.363.6500 • FAX 661.363.7500 • www.mazzei.net

**NUMBERS IN PARENTHESIS indicate the injector outlet pressure when suction stops (Zero Suction Point).*

Injector Performance Table
Air Suction Capacity
Model 978-03



Operating Pressure kg/cm ²		AIR SUCTION		Operating Pressure kg/cm ²		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	15.4	8.7	4.22	0.00	53.3	34.5
	0.07		2.4		0.35		26.9
	0.14		0.86		0.70		17.6
	0.21		0.42		1.05		11.6
	0.28		<i>*(0.27)</i>		1.41		8.5
0.00	21.7	14.1	2.11		5.0		
0.14		5.2	2.46		3.7		
0.35		1.4	2.81		2.6		
0.49		0.60	3.16		<i>*(3.62)</i>		1.7
0.56		<i>*(0.63)</i>	0.40		0.00		34.7
0.00	26.6	17.9	0.35	29.6			
0.35		4.1	0.70	23.2			
0.49		2.6	1.05	15.1			
0.70		1.1	1.41	10.8			
0.84		<i>*(0.94)</i>	0.60	2.11	7.0		
0.00	30.8	20.8	2.81	4.3			
0.35		6.8	3.16	3.2			
0.70		2.8	3.52	2.2			
0.84		1.9	3.87	<i>*(4.22)</i>	1.3		
1.05		<i>*(1.18)</i>	1.0	0.00	36.0		
0.00	34.4	22.6	0.35	31.8			
0.35		8.8	0.70	26.3			
0.70		4.1	1.05	17.9			
1.05		2.1	1.41	13.1			
1.41		<i>*(1.46)</i>	0.81	2.11	8.9		
0.00	37.7	23.5	2.81	5.4			
0.35		12.5	3.52	3.5			
0.70		5.9	4.22	1.9			
1.05		3.4	4.57	<i>*(4.75)</i>	1.7		
1.41		1.8	0.00	0.00	41.4		
1.76	<i>*(1.86)</i>	0.68	0.35	32.9			
0.00	40.7	22.7	0.70	28.8			
0.35		13.7	1.41	15.6			
0.70		7.6	2.11	10.6			
1.05		5.2	2.81	7.5			
1.41		3.2	3.52	4.6			
1.76	<i>*(2.13)</i>	1.5	4.22	3.4			
0.00	43.5	24.5	4.92	2.0			
0.35		18.2	5.27	<i>*(5.37)</i>	1.7		
0.70		9.5	0.00	0.00	42.9		
1.05		6.2	0.35	0.35	35.9		
1.41		4.0	0.70	0.70	31.8		
1.76	2.6	1.41	1.41	18.4			
2.11	<i>*(2.41)</i>	1.5	2.11	13.0			
0.00	46.1	25.8	2.81	9.0			
0.35		20.0	3.52	6.2			
0.70		11.0	4.22	4.6			
1.05		7.6	4.92	3.2			
1.41		5.2	5.62	<i>*(5.98)</i>	2.1		
1.76	3.4	0.00	0.00	44.3			
2.11	2.2	0.35	0.35	38.6			
2.46	<i>*(2.72)</i>	1.3	0.70	33.8			
0.00	48.6	28.8	1.41	22.8			
0.35		22.8	2.11	15.7			
0.70		12.7	2.81	11.3			
1.05		9.1	3.52	7.5			
1.41		6.4	4.22	6.3			
1.76	4.7	4.92	4.7				
2.11	3.2	5.62	3.6				
2.46	2.1	6.33	2.6				
2.81	<i>*(2.96)</i>	1.1	7.03	<i>*(7.24)</i>	1.8		
0.00	53.3	34.7	0.00	34.7			
0.35		29.6	0.35	29.6			
0.70		23.2	0.70	23.2			
1.05		15.1	1.05	15.1			
1.41		10.8	1.41	10.8			
2.11		7.0	2.11	7.0			
2.81		4.3	2.81	4.3			
3.16		3.2	3.16	3.2			
3.52		2.2	3.52	2.2			
3.87		1.3	3.87	1.3			
0.00	57.5	36.0	0.00	36.0			
0.35		31.8	0.35	31.8			
0.70		26.3	0.70	26.3			
1.05		17.9	1.05	17.9			
1.41		13.1	1.41	13.1			
2.11		8.9	2.11	8.9			
2.81		5.4	2.81	5.4			
3.52		3.5	3.52	3.5			
4.22		1.9	4.22	1.9			
4.57		1.7	4.57	1.7			
0.00	61.5	41.4	0.00	41.4			
0.35		32.9	0.35	32.9			
0.70		28.8	0.70	28.8			
1.41		15.6	1.41	15.6			
2.11		10.6	2.11	10.6			
2.81		7.5	2.81	7.5			
3.52		4.6	3.52	4.6			
4.22		3.4	4.22	3.4			
4.92		2.0	4.92	2.0			
5.27		1.7	5.27	1.7			
0.00	65.2	42.9	0.00	42.9			
0.35		35.9	0.35	35.9			
0.70		31.8	0.70	31.8			
1.41		18.4	1.41	18.4			
2.11		13.0	2.11	13.0			
2.81		9.0	2.81	9.0			
3.52		6.2	3.52	6.2			
4.22		4.6	4.22	4.6			
4.92		3.2	4.92	3.2			
5.62		2.1	5.62	2.1			
0.00	68.8	44.3	0.00	44.3			
0.35		38.6	0.35	38.6			
0.70		33.8	0.70	33.8			
1.41		22.8	1.41	22.8			
2.11		15.7	2.11	15.7			
2.81		11.3	2.81	11.3			
3.52		7.5	3.52	7.5			
4.22		6.3	4.22	6.3			
4.92		4.7	4.92	4.7			
5.62		3.6	5.62	3.6			
6.33	2.6	6.33	2.6				
7.03	1.8	7.03	1.8				
0.00	75.3	44.3	0.00	44.3			
0.35		38.6	0.35	38.6			
0.70		33.8	0.70	33.8			
1.41		22.8	1.41	22.8			
2.11		15.7	2.11	15.7			
2.81		11.3	2.81	11.3			
3.52		7.5	3.52	7.5			
4.22		6.3	4.22	6.3			
4.92		4.7	4.92	4.7			
5.62		3.6	5.62	3.6			
6.33	2.6	6.33	2.6				
7.03	1.8	7.03	1.8				

**NUMBERS IN PARENTHESIS indicate the injector outlet pressure when suction stops (Zero Suction Point).*