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 1/2" MNPT OR BSPT

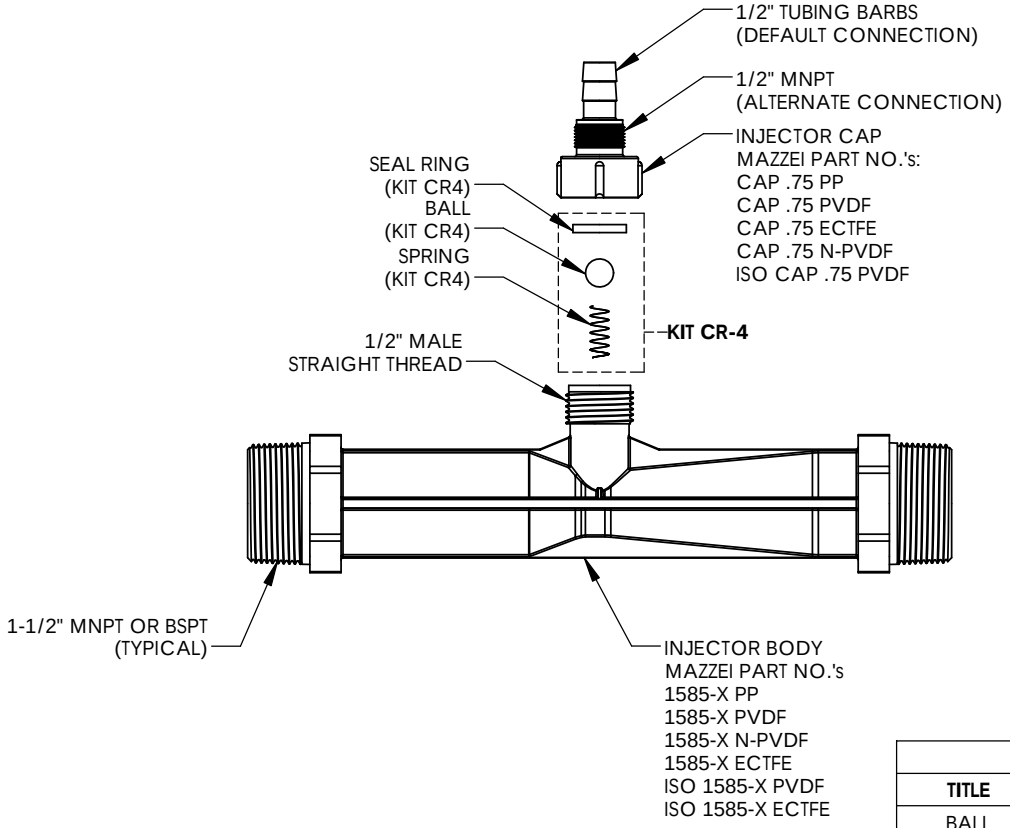
6. SUCTION PORT CONNECTION:

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

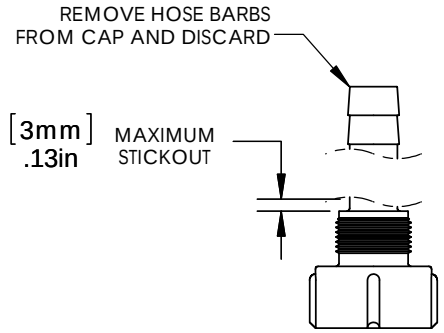
   ALTERNATE - 1/2" MNPT - SEE ALTERNATE CAP MODIFICATION DETAIL

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

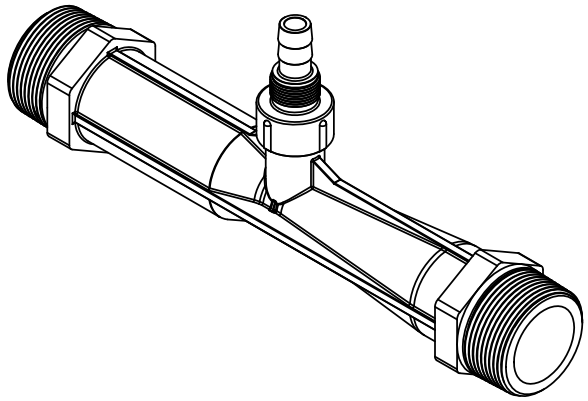


KIT CR-4	
TITLE	**MATERIAL**
BALL	TEFLON ® (PTFE)
SEAL RING	KEL-F ® (PCTFE)
SPRING	HASTELLOY C-22

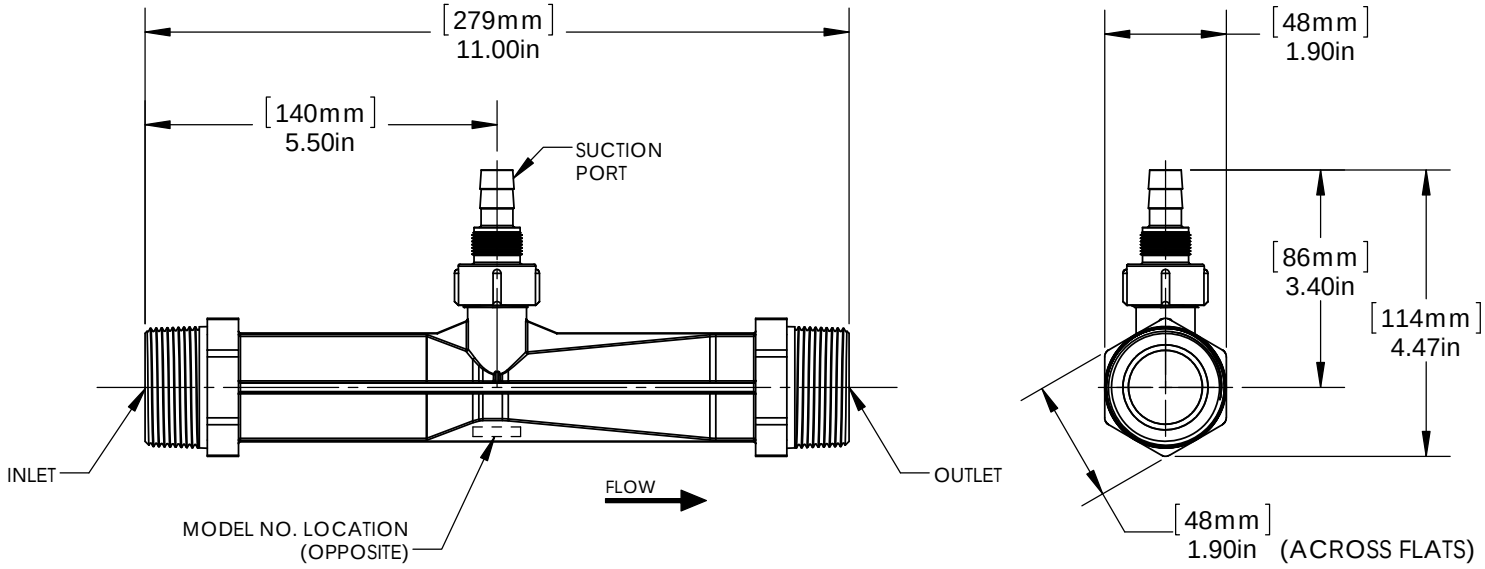


"CAP MODIFICATION DETAIL"
(ALTERNATE)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		Mazzei®	TITLE: 1-1/2" INJECTOR; MODEL 1585-X		
DRAWN:	G. NOVINS		DRAWING NO.: 1585-X PP/PVDF/ECTFE		
DATE:	7/23/2014				
APPROVED:	T. JOHNS	SIZE: A	WEIGHT: N/A	SCALE: 1:3	REV.: NC	SHEET: 1 OF 2



(ISOMETRIC VIEW)
(FOR REFERENCE ONLY)



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		Mazzei®	TITLE: 1-1/2" INJECTOR; MODEL 1585-X			
DRAWN:	G. NOVINS		DRAWING NO.: 1585-X PP/PVDF/ECTFE			
DATE:	7/23/2014					
APPROVED:	T. JOHNS	SIZE: A	WEIGHT: N/A	SCALE: 1:3	REV.: NC	SHEET: 2 OF 2

Injector Performance Table
Water Suction Capacity

Model 1585X

Operating Pressure PSIG		WATER SUCTION	
Injector INLET	Injector OUTLET	Motive Flow GPM	*Water Suction* GPH
5	0	10.7	123
	1		74.7
	2		26.3
	3		
	4	*(3.5)	
10	0	15.2	241
	2		155
	5		43.3
	7		
	8	*(6.5)	
15	0	18.6	262
	5		157
	7		86.5
	10		
	12	*(9.4)	
20	0	21.4	308
	5		231
	10		120
	12		39.3
	15	*(12.7)	
25	0	24.0	324
	5		275
	10		204
	15		50.5
	20	*(15.4)	
30	0	26.3	323
	5		299
	10		251
	15		137
	20		
	25	*(19.3)	
35	0	28.4	326
	5		318
	10		286
	15		204
	20		66.6
	25	*(22.4)	
40	0	30.3	324
	5		321
	10		307
	15		257
	20		146
	25		11.9
	30	*(25.5)	
45	0	32.2	326
	5		324
	10		318
	15		287
	20		210
	25		106
	30		
	35	*(28.7)	
50	0	33.9	323
	5		319
	10		315
	15		296
	20		251
	25		156
	30		45.4
	35		
	40	*(32.4)	

Operating Pressure PSIG		WATER SUCTION	
Injector INLET	Injector OUTLET	Motive Flow GPM	*Water Suction* GPH
60	0	37.2	319
	5		318
	10		317
	15		307
	20		288
	30		174
	35		76.4
	40		
	45	*(38.2)	
70	0	40.1	316
	5		316
	10		316
	15		312
	20		300
	30		260
	40		68.2
	45		
	50		
	55	*(44.7)	
80	0	42.9	321
	5		321
	10		321
	15		321
	20		311
	30		287
	40		209
	50		
	60		
	65	*(51.1)	
90	0	45.5	309
	5		309
	10		309
	20		302
	30		295
	40		270
	50		106
	60		
	70		
	75	*(57.5)	
100	0	48.0	305
	5		305
	10		305
	20		300
	30		282
	40		273
	50		193
	60		14.6
	70		
	80	*(63.2)	

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

Mazzei Injector Company, LLC
500 Rooster Drive, Bakersfield, CA 93307-9555 USA
TEL 661.363.6500 • FAX 661.363.7500 • www.mazzei.net

Injector Performance Table

Water Suction Capacity - METRIC

Model 1585X

Operating Pressure kg/cm²		WATER SUCTION	
Injector Inlet	Injector Outlet	Motive Flow l/min	*Water Suction* l/hr
0.35	0.00	40.6	467
	0.07		283
	0.14		99.5
	0.21		
	0.28	*(0.25)	
0.70	0.00	57.4	914
	0.14		589
	0.35		164
	0.49		
	0.56	*(0.46)	
1.05	0.00	70.3	991
	0.35		597
	0.49		327
	0.70		
	0.84	*(0.66)	
1.41	0.00	81.2	1,168
	0.35		877
	0.70		455
	0.84		148
	1.05	*(0.89)	
1.76	0.00	90.8	1,228
	0.35		1,042
	0.70		774
	1.05		191
	1.41	*(1.08)	
2.11	0.00	99.4	1,222
	0.35		1,134
	0.70		950
	1.05		520
	1.41		
	1.76	*(1.36)	
2.46	0.00	107	1,234
	0.35		1,204
	0.70		1,084
	1.05		772
	1.41		252
	1.76	*(1.58)	
2.81	0.00	115	1,227
	0.35		1,216
	0.70		1,165
	1.05		972
	1.41		554
	1.76		45.0
	2.11	*(1.79)	
3.16	0.00	122	1,233
	0.35		1,226
	0.70		1,204
	1.05		1,086
	1.41		795
	1.76		404
	2.11		
	2.46	*(2.02)	
3.52	0.00	128	1,222
	0.35		1,208
	0.70		1,194
	1.05		1,122
	1.41		952
	1.76		593
	2.11		171
	2.46		
	2.81	*(2.28)	

Operating Pressure kg/cm²		WATER SUCTION	
Injector Inlet	Injector Outlet	Motive Flow l/min	*Water Suction* l/hr
4.22	0.00	141	1,210
	0.35		1,206
	0.70		1,202
	1.05		1,163
	1.41		1,092
	2.11		661
	2.46		289
	2.81		
	3.16	*(2.69)	
4.92	0.00	152	1,199
	0.35		1,199
	0.70		1,199
	1.05		1,181
	1.41		1,139
	2.11		984
	2.81		258
	3.16		
	3.52		
	3.87	*(3.14)	
5.62	0.00	162	1,217
	0.35		1,217
	0.70		1,217
	1.05		1,217
	1.41		1,178
	2.11		1,086
	2.81		792
	3.52		
	4.22		
	4.57	*(3.59)	
6.33	0.00	172	1,170
	0.35		1,170
	0.70		1,170
	1.41		1,146
	2.11		1,120
	2.81		1,025
	3.52		402
	4.22		
	4.92		
	5.27	*(4.04)	
7.03	0.00	182	1,154
	0.35		1,154
	0.70		1,154
	1.41		1,136
	2.11		1,070
	2.81		1,036
	3.52		732
	4.22		55.4
	4.92		
	5.62	*(4.44)	

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

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Injector Performance Table

Air Suction Capacity

Model 1585X

Operating Pressure PSIG		AIR SUCTION	
Injector INLET	Injector OUTLET	Motive Flow GPM	*Air Suction* SCFH
5	0	10.3	56.3
	1		12.0
	2		6.9
	3		
	4	*(3.5)	
10	0	14.5	64.9
	2		20.0
	5		11.6
	7		
	8	*(6.5)	
15	0	17.8	117
	5		18.7
	7		11.6
	10		
	12	*(9.4)	
20	0	20.6	130
	5		31.1
	10		12.7
	12		6.4
	15	*(12.7)	
25	0	23.0	145
	5		48.5
	10		20.2
	15		8.0
	20	*(15.4)	
30	0	25.2	169
	5		60.8
	10		25.7
	15		14.7
	20		
	25	*(19.3)	
35	0	27.2	175
	5		78.1
	10		34.2
	15		20.6
	20		10.5
	25	*(22.4)	
40	0	29.1	177
	5		87.4
	10		45.3
	15		24.9
	20		16.6
	25		2.6
	30	*(25.5)	
45	0	30.8	229
	5		105
	10		51.1
	15		32.5
	20		21.6
	25		12.2
	30		
	35	*(28.7)	
50	0	32.5	203
	5		129
	10		56.6
	15		38.1
	20		27.4
	25		17.5
	30		6.3
	35		
	40	*(32.4)	

Operating Pressure PSIG		AIR SUCTION	
Injector INLET	Injector OUTLET	Motive Flow GPM	*Air Suction* SCFH
60	0	35.6	232
	5		182
	10		77.7
	15		51.6
	20		35.6
	30		18.5
	35		10.1
	40		
	45	*(38.2)	
70	0	38.5	261
	5		213
	10		90.3
	15		59.9
	20		46.4
	30		26.9
	40		12.2
	45		
	50		
	55	*(44.7)	
80	0	41.1	276
	5		233
	10		120
	15		79.3
	20		59.0
	30		34.4
	40		22.2
	50		1.4
	60		
	65	*(51.1)	
90	0	43.6	291
	5		234
	10		138
	20		65.8
	30		41.9
	40		27.6
	50		13.2
	60		
	70		
	75	*(57.5)	
100	0	46.0	318
	5		250
	10		188
	20		76.8
	30		51.5
	40		33.5
	50		21.8
	60		7.1
	70		
	80	*(63.2)	
120	0	50.4	337
	5		262
	10		234
	20		100
	30		64.9
	40		46.2
	50		35.5
	60		22.2
	70		8.3
	80		
	90		
	100	*(75.3)	

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Injector Performance Table

Air Suction Capacity - METRIC

Model 1585X

Operating Pressure kg/cm²		AIR SUCTION	
Injector INLET	Injector OUTLET	Motive Flow l/min	*Air Suction* l/min
0.35	0.00	38.9	26.6
	0.07		5.6
	0.14		3.2
	0.21		
	0.28	*(0.25)	
0.70	0.00	55.0	30.6
	0.14		9.4
	0.35		5.5
	0.49		
	0.56	*(0.46)	
1.05	0.00	67.4	55.3
	0.35		8.8
	0.49		5.5
	0.70		
	0.84	*(0.66)	
1.41	0.00	77.8	61.7
	0.35		14.6
	0.70		6.0
	0.84		3.0
	1.05	*(0.89)	
1.76	0.00	87.0	68.6
	0.35		22.9
	0.70		9.5
	1.05		3.8
	1.41	*(1.08)	
2.11	0.00	95.3	79.8
	0.35		28.7
	0.70		12.1
	1.05		6.9
	1.41		
	1.76	*(1.36)	
2.46	0.00	103	82.8
	0.35		36.9
	0.70		16.1
	1.05		9.7
	1.41		4.9
	1.76	*(1.58)	
2.81	0.00	110	83.5
	0.35		41.2
	0.70		21.3
	1.05		11.7
	1.41		7.8
	1.76		1.2
	2.11	*(1.79)	
3.16	0.00	117	108
	0.35		49.7
	0.70		24.1
	1.05		15.3
	1.41		10.1
	1.76		5.7
	2.11		
	2.46	*(2.02)	
3.52	0.00	123	96.1
	0.35		61.1
	0.70		26.7
	1.05		17.9
	1.41		12.9
	1.76		8.2
	2.11		3.0
	2.46		
	2.81	*(2.28)	

Operating Pressure kg/cm²		AIR SUCTION	
Injector INLET	Injector OUTLET	Motive Flow l/min	*Air Suction* l/min
4.22	0.00	135	109
	0.35		85.9
	0.70		36.7
	1.05		24.3
	1.41		16.8
	2.11		8.7
	2.46		4.7
	2.81		
	3.16	*(2.69)	
4.92	0.00	146	123
	0.35		100
	0.70		42.6
	1.05		28.3
	1.41		21.9
	2.11		12.6
	2.81		5.8
	3.16		
	3.52		
	3.87	*(3.14)	
5.62	0.00	156	130
	0.35		110
	0.70		56.7
	1.05		37.4
	1.41		27.8
	2.11		16.2
	2.81		10.4
	3.52		0.69
	4.22		
	4.57	*(3.59)	
6.33	0.00	165	137
	0.35		110
	0.70		65.2
	1.41		31.0
	2.11		19.7
	2.81		13.0
	3.52		6.2
	4.22		
	4.92		
	5.27	*(4.04)	
7.03	0.00	174	150
	0.35		118
	0.70		89.0
	1.41		36.2
	2.11		24.3
	2.81		15.8
	3.52		10.3
	4.22		3.3
	4.92		
	5.62	*(4.44)	
8.44	0.00	191	159
	0.35		123
	0.70		110
	1.41		47.3
	2.11		30.6
	2.81		21.8
	3.52		16.7
	4.22		10.4
	4.92		3.9
	5.62		
	6.33		
	7.03	*(5.29)	

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