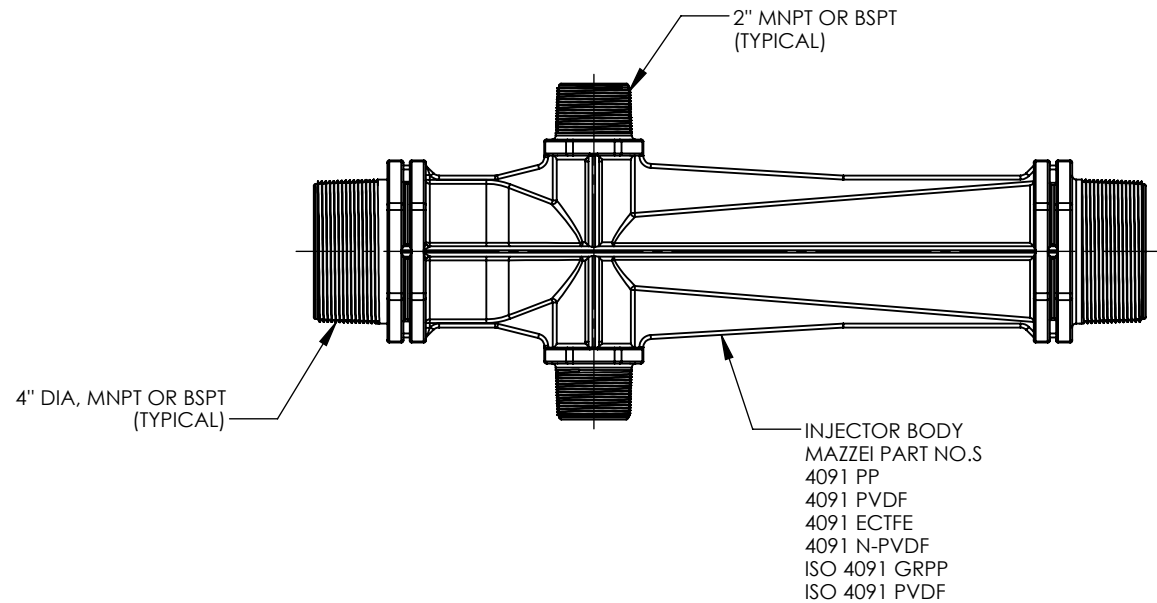

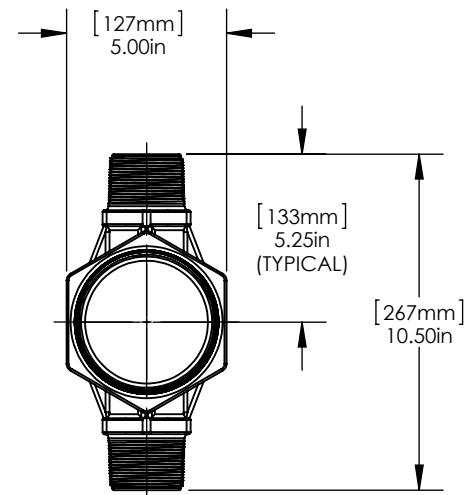
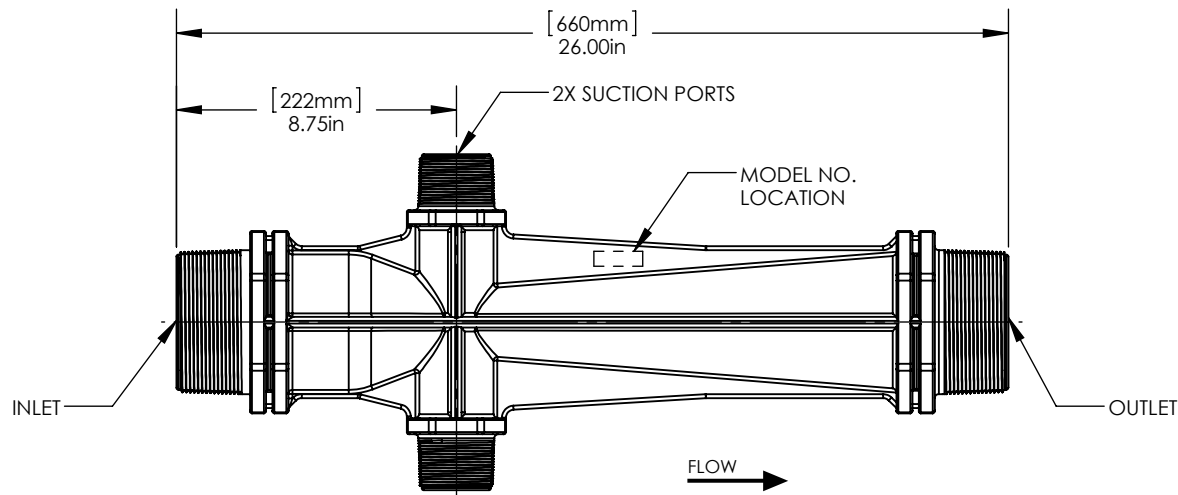
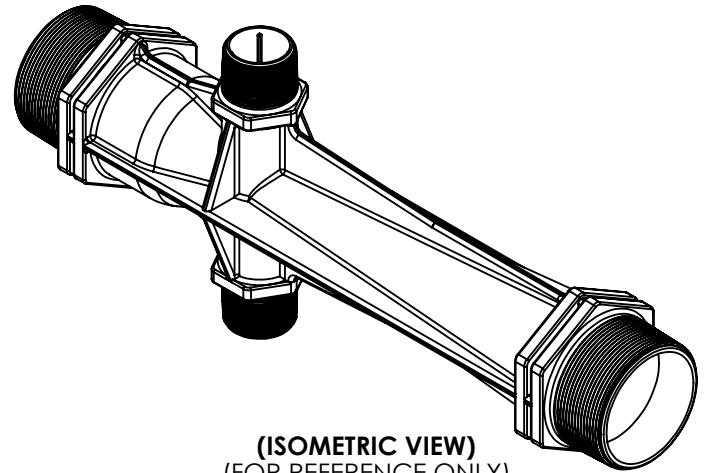


NOTES:

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 NATURAL POLYVINYLIDENE FLUORIDE (N-PVDF) OR ETHYLENE CHLOROTRIFLUOROETHYLENE (ECTFE).
5. INLET/OUTLET CONNECTIONS:
4" DIA, MNPT OR BSPT
6. SUCTION PORT CONNECTIONS:
2" MNPT OR BSPT
7. FOR INSTALLATION RECOMMENDATIONS REFER TO MAZZEI TECHNICAL BULLETINS No. 4, No. 5, No. 6, No. 10 AND No. 11, WHICH CAN BE FOUND AT WWW.MAZZEI.NET.
8. MAZZEI INJECTOR CO., LLC.
500 ROOSTER DR.
BAKERSFIELD, CA 93307
TEL: 661.363.6500
WEB: WWW.MAZZEI.NET



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			TITLE: 4" INJECTOR; MODEL 4091		
DRAWN: J. PEREZ	DATE: 9/25/2014		DRAWING NO.: 4091		
APPROVED: T. JOHNS	SIZE: A	WEIGHT: N/A	SCALE: 1:6	REV.: B	SHEET: 1 OF 2

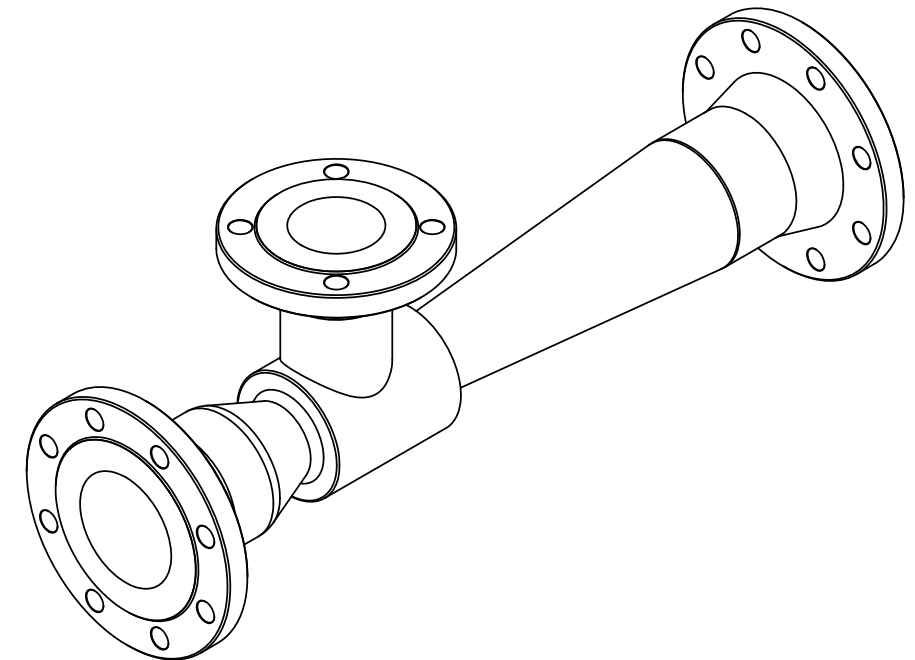


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		 Mazzei	TITLE: 4" INJECTOR; MODEL 4091		
DRAWN: J. PEREZ	DATE: 9/25/2014		DRAWING NO.: 4091		
APPROVED: T. JOHNS	SIZE: A	WEIGHT: N/A	SCALE: 1:6	REV.: B	SHEET: 2 OF 2

NOTES:


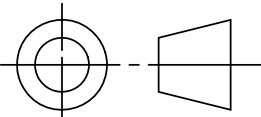
1. MATERIAL OF CONSTRUCTION: TYPE 316L, STAINLESS STEEL
2. MTR/HEAT NUMBERS ARE PROVIDED AND SHALL MEET APPLICABLE MATERIAL SPECIFICATIONS.
3. FLANGE BOLT HOLES TO STRADDLE COMMON CENTERLINES, UNLESS OTHERWISE NOTED.
4. INLET/OUTLET CONNECTION:
4" DIA., ANSI B16.5, CLASS 150, SCHED. 40, RAISED FACE - WELD NECK FLANGE.
5. SUCTION PORT CONNECTION:
3" 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. 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".

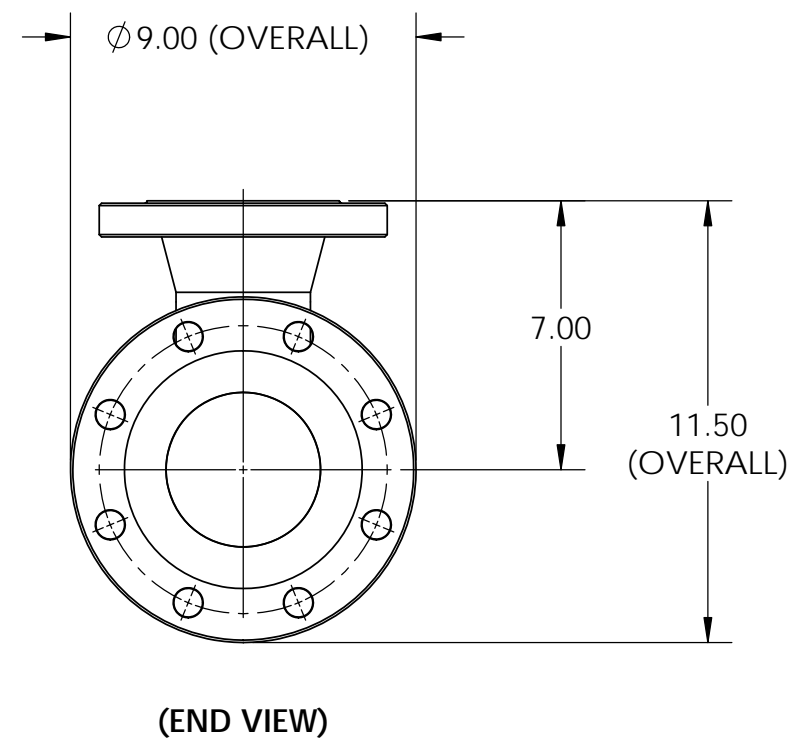
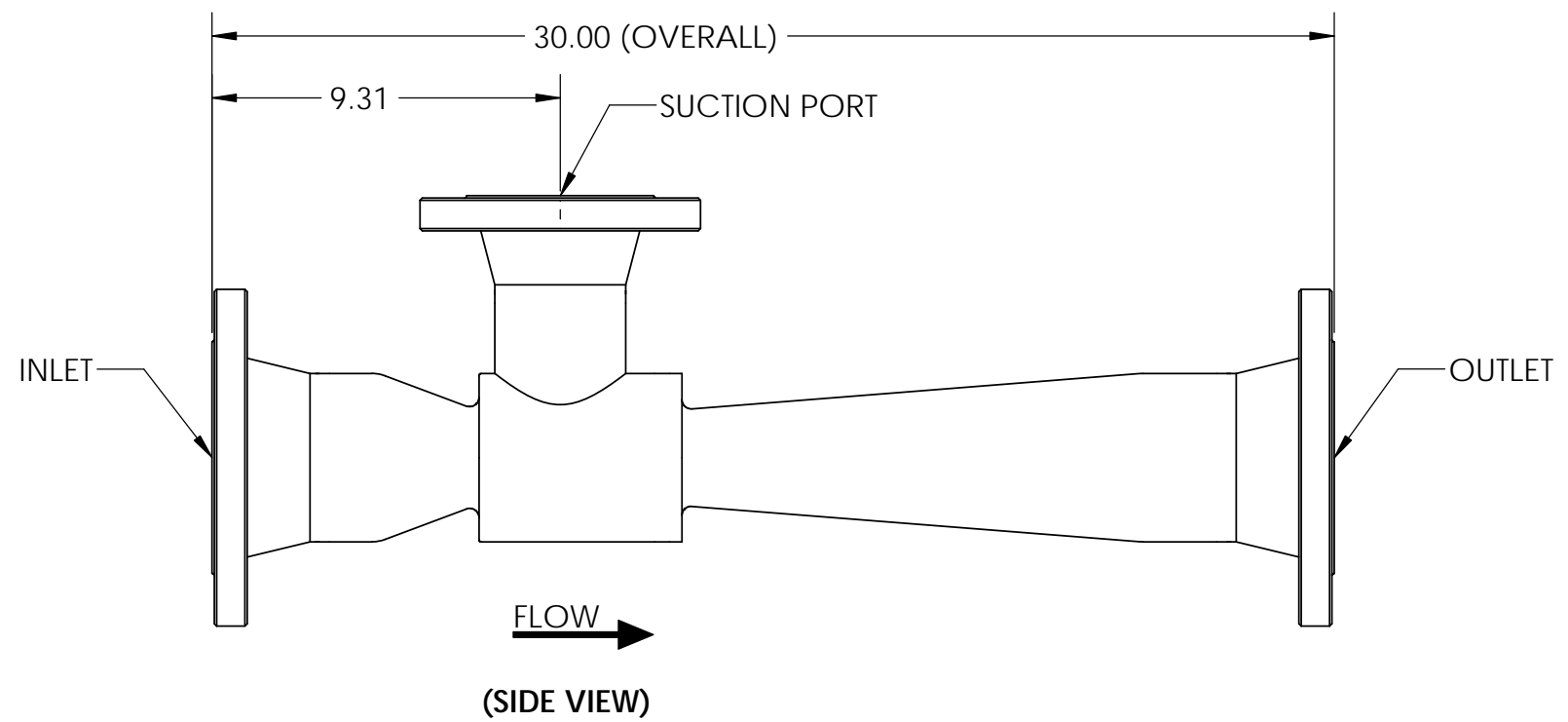
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	UPDATED NOTE 11.	5/6/2013	P. BANKOWSKI



(ISOMETRIC VIEW)
(FOR REFERENCE ONLY)

SUBMITTAL DRAWING

<p>SUBMITTAL NOTICE</p> <p>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.</p>	<p>CONFIDENTIALITY NOTICE</p> <p>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.</p>	<p>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</p>	<p>APPROVALS</p> <p>DRAWN: T. JOHNS</p>	<p>DATE</p> <p>12/28/2012</p>	 <p>MAZZEI INJECTOR CO., LLC 500 ROOSTER DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 363-6500 FAX: (661)363-7500 WWW.MAZZEI.NET</p>
			<p>CHECKED: P. BANKOWSKI</p> <p>APPROVED: P. BANKOWSKI</p> <p>QA: -</p> <p>CUSTOMER APPROVAL: -</p> <p>CUSTOMER: NA</p>	<p>12/28/2012</p> <p>12/28/2012</p>	
<p>DRAWING MAY NOT BE PRINTED FULL SIZE DO NOT SCALE</p>		<p>THIRD ANGLE PROJECTION</p> 	<p>SIZE: B JOB NO.: NA DRAWING NUMBER: SSF04091AAA00-SUB REV: B</p> <p>SCALE: NONE WEIGHT: 72 LBS SHEET: 1 OF 2</p>		




		MAZZEI INJECTOR CO., LLC 500 ROOSTER DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 363-6500 FAX: (661)363-7500 WWW.MAZZEI.NET		
		TITLE: INJECTOR; MODEL SSF04091AAA00		
SIZE:	JOB NO.:	DRAWING NUMBER:	REV:	
B	NA	SSF04091AAA00-SUB	B	
SCALE:	WEIGHT:	SHEET:		
1:5	72 LBS	2 OF 2		



Tabla de Rendimiento de Inyectores
Capacidad de Succión de Agua

Presión Operacional PSIG		Succión de Agua		Presión Operacional PSIG		Succión de Agua	
ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal GPM	Succión de Agua GPM	ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal GPM	Succión de Agua GPM
5	0	170	35	60	0	460	47
	1		25		47		
	2		20		47		
	3		14		47		
	4		*(4.5)		6		47
10	0	214	47	70	0	495	46
	2		47		5		46
	5		31		10		46
	7		13		15		46
	8		*(8.8)		4		46
15	0	251	47	80	0	532	45
	5		47		5		45
	7		38		10		45
	10		12		15		45
	12		*(13.1)		6		45
20	0	272	47	90	0	569	42
	5		47		5		42
	10		45		10		42
	12		30		15		42
	15		*(17.5)		12		42
25	0	307	47	100	0	600	42
	5		47		5		42
	10		47		10		42
	15		33		15		42
	20		*(21.7)		7		42
30	0	332	47	100	0	600	42
	5		47		5		42
	10		47		10		42
	15		43		15		42
	20		23		20		42
25	*(26.0)	4	42				
35	0	360	47	100	0	600	42
	5		47		5		42
	10		47		10		42
	15		47		15		42
	20		44		20		42
25	*(30.5)	24	39				
40	0	382	47	100	0	600	28
	5		47		5		14
	10		47		10		42
	15		47		15		42
	20		47		20		42
25	31	25	42				
30	*(35.0)	15	39				
45	0	402	47	100	0	600	42
	5		47		5		42
	10		47		10		42
	15		47		15		42
	20		47		20		42
25	47	25	42				
30	40	30	42				
35	*(38.9)	16	39				
50	0	416	47	100	0	600	15
	5		47		5		42
	10		47		10		42
	15		47		15		42
	20		47		20		42
25	47	25	42				
30	44	30	42				
35	27	35	42				
40	*(43.1)	6	15				

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

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* Los números entre paréntesis indican la presión de salida del inyector cuando deja de aspirar (punto cero de succión).

Modelo 4091



Tabla de Rendimiento de Inyectores
Capacidad de Succión de Agua - MÉTRICO

Presión Operacional kg/cm ²		Succión de Agua		Presión Operacional kg/cm ²		Succión de Agua		
ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal l/min	Succión de Agua l/min	ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal l/min	Succión de Agua l/min	
0.35	0.00	643	132	4.22	0.00	1,741	177	
	0.07		94.6		0.35		177	
	0.14		75.7		0.70		177	
	0.21		53.0		1.05		177	
	0.28		* <i>(0.32)</i>		22.7		1.41	177
0.70	0.00	810	177		2.11		177	
	0.14		177		2.46		174	
	0.35		117		2.81		159	
	0.49		49.2		3.16		* <i>(3.59)</i>	106
	0.56		* <i>(0.62)</i>		15.1		0.00	174
1.05	0.00	950	177		0.35		174	
	0.35		177	0.70	174			
	0.49		143	1.05	174			
	0.70		45.4	1.41	174			
	0.84		* <i>(0.92)</i>	22.7	2.11	174		
1.41	0.00	1,030	177	2.81	174			
	0.35		177	3.16	174			
	0.70		170	3.52	117			
	0.84		113	3.87	* <i>(4.25)</i>	60.6		
	1.05		* <i>(1.23)</i>	45.4	0.00	170		
1.76	0.00	1,162	177	0.35	170			
	0.35		177	0.70	170			
	0.70		177	1.05	170			
	1.05		124	1.41	170			
	1.41		* <i>(1.53)</i>	26.5	2.11	170		
2.11	0.00	1,257	177	2.81	170			
	0.35		177	3.52	170			
	0.70		177	4.22	113			
	1.05		162	4.57	* <i>(4.89)</i>	53.0		
	1.41		87.1	0.00	159			
2.46	0.00	1,363	177	0.35	159			
	0.35		177	0.70	159			
	0.70		177	1.41	159			
	1.05		177	2.11	159			
	1.41		166	2.81	159			
2.81	0.00	1,446	177	3.52	151			
	0.35		177	4.22	147			
	0.70		177	4.92	106			
	1.05		177	5.27	* <i>(5.56)</i>	53.0		
	1.41		117	0.00	159			
3.16	0.00	1,522	177	0.35	159			
	0.35		177	0.70	159			
	0.70		177	1.41	159			
	1.05		177	2.11	159			
	1.41		177	2.81	159			
3.52	0.00	1,575	177	3.52	159			
	0.35		177	4.22	159			
	0.70		177	4.92	147			
	1.05		177	5.62	* <i>(6.23)</i>	56.8		
	1.41		177	0.00	159			
4.92	0.00	1,874	177	0.35	159			
	0.35		177	0.70	159			
	0.49		143	1.41	159			
	0.70		45.4	2.11	159			
	0.84		* <i>(0.92)</i>	22.7	2.81	159		
5.62	0.00	2,014	177	3.52	147			
	0.35		177	4.22	106			
	0.70		177	4.92	53.0			
	1.05		124	0.00	159			
	1.41		* <i>(1.53)</i>	26.5	0.35	159		
6.33	0.00	2,154	177	0.70	159			
	0.35		177	1.41	159			
	0.70		177	2.11	159			
	1.05		177	2.81	159			
	1.41		166	3.52	151			
7.03	0.00	2,271	177	4.22	147			
	0.35		177	4.92	106			
	0.70		177	5.27	53.0			
	1.05		177	0.00	159			
	1.41		117	0.35	159			

Modelo 4091

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* Los números entre paréntesis indican la presión de salida del inyector cuando deja de aspirar (punto cero de succión).



Presión Operacional PSIG		Succión de Aire		Presión Operacional PSIG		Succión de Aire	
ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal GPM	Succión de Aire SCFM	ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal GPM	Succión de Aire SCFM
5	0	146	15.6	60	0	457	79.4
	1		6.8		5		58.0
	2		2.6		10		52.6
	3		1.0		15		19.3
	4				20		13.9
10	0	189	27.1		25		11.3
	2		10.8		30		8.8
	5		2.7		35		6.3
	7		1.1		40		4.3
	8				45		2.8
15	0	230	40.6	70	0	494	80.6
	5		7.0		5		63.5
	7		3.9		10		56.6
	10		1.8		15		26.7
	12				20		17.9
20	0	267	46.2		30		11.8
	5		12.4		40		7.0
	10		4.4		45		5.1
	12		2.8		50		3.4
	15		1.5		55		2.7
25	0	296	54.2	80	0	530	81.3
	5		17.6		5		66.8
	10		7.2		10		66.0
	15		3.4		15		48.0
	20		1.4		20		21.1
30	0	324	62.8		30		13.7
	5		32.5		40		9.5
	10		10.5		50		5.4
	15		5.3		60		3.0
	20		2.9		65		2.4
35	0	351	61.7				
	5		38.8				
	10		12.8				
	15		7.9				
	20		4.5				
40	0	374	67.3				
	5		44.4				
	10		16.0				
	15		10.4				
	20		6.7				
45	0	397	71.7				
	5		47.8				
	10		19.7				
	15		12.3				
	20		8.7				
50	0	419	74.9				
	5		51.5				
	10		27.0				
	15		14.2				
	20		10.8				
	25	7.5					
	30	5.0					
	35	3.1					
	40						

Tabla de Rendimiento de Inyectores
Capacidad de Succión de Aire

Modelo 4091



Tabla de Rendimiento de Inyectores
Capacidad de Succión de Aire - MÉTRICO

Presión Operacional kg/cm ²		Succión de Aire		Presión Operacional kg/cm ²		Succión de Aire	
ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal l/min	Succión de Aire l/min	ENTRADA del Inyector	SALIDA del Inyector	Flujo de la Línea Principal l/min	Succión de Aire l/min
0.35	0.00	553	441	4.22	0.00	1,730	2,248
	0.07		192		0.35		1,642
	0.14		73.6		0.70		1,489
	0.21		28.3		1.05		546
	0.28				1.41		393
0.70	0.00	715	767		1.76		320
	0.14		305		2.11		249
	0.35		76.4		2.46		178
	0.49		31.1		2.81		121
	0.56				3.16		79.2
1.05	0.00	871	1,149	4.92	0.00	1,870	2,282
	0.35		198		0.35		1,798
	0.49		110		0.70		1,602
	0.70		50.9		1.05		756
	0.84				1.41		506
1.41	0.00	1,011	1,308		2.11		334
	0.35		351		2.81		198
	0.70		124		3.16		144
	0.84		79.2		3.52		96.2
	1.05		42.4		3.87		76.4
1.76	0.00	1,120	1,534	5.62	0.00	2,006	2,302
	0.35		498		0.35		1,891
	0.70		203		0.70		1,868
	1.05		96.2		1.05		1,359
	1.41		39.6		1.41		597
2.11	0.00	1,226	1,778		2.11		387
	0.35		920		2.81		269
	0.70		297		3.52		152
	1.05		150		4.22		84.9
	1.41		82.1		4.57		67.9
	1.76						
2.46	0.00	1,329	1,747				
	0.35		1,098				
	0.70		362				
	1.05		223				
	1.41		127				
	1.76		67.9				
2.81	0.00	1,416	1,905				
	0.35		1,257				
	0.70		453				
	1.05		294				
	1.41		189				
	1.76		116				
3.16	0.00	1,503	2,030				
	0.35		1,353				
	0.70		557				
	1.05		348				
	1.41		246				
	1.76		161				
	2.11		99.1				
3.52	0.00	1,586	2,120				
	0.35		1,458				
	0.70		764				
	1.05		402				
	1.41		305				
	1.76		212				
	2.11		141				
	2.46		87.7				
2.81							

Modelo 4091