



## MAZZEI VENTURI FERTILISER INJECTORS - 15MM - 50MM

Mazzei Injectors (patented) are extremely efficient, compact differential injection devices. Currently operating successfully in thousands of installations worldwide. Mazzei Injectors offer a reliable, accurate and economical method to inject virtually any liquid or gas substance into a pressurized fluid stream.

### APPLICATION

The highly versatile Mazzei Injectors are suitable for a wide variety of applications -

#### Agriculture

*Ag Irrigation Systems* - to inject fertilizers and other chemicals or water treatment additives.

*Ag Spray Systems* - for mixing and/or the transfer of concentrated pesticide materials.

*Food Processing* - for water chlorination, injection of detergents, bacterial agents and other water treatment purification additives.

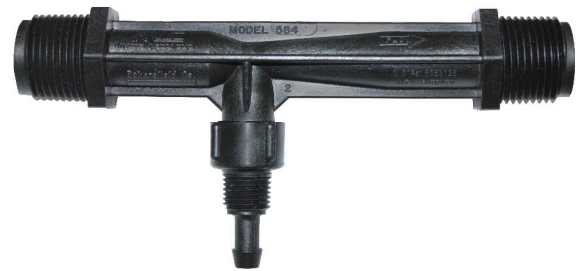
#### Home and Garden

*Irrigation Systems* - for application of liquid fertilizer through landscape sprinkler or drip irrigation systems, hose end sprinklers and/or spray nozzles.  
(Check local guides)

#### Industrial/Commercial

*Water Treatment* - to inject air, liquids, gases (ozone) and other water purification chemicals for cooling tower or other water or fluid recirculatory systems, waste water systems and potable water systems.

*Washing and Cleaning* - to inject detergents, solvents and other cleaning agents into carpet cleaning equipment, car wash systems, dishwashing equipment and other industrial cleaning processes.



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# PRODUCT SPECIFICATION

FERTILISER INJECTORS

## MAZZEI VENTURI FERTILISER INJECTORS - 15MM - 50MM

### FEATURES

- Molded from high quality thermoplastics with superior strength, high temperature capability and resistant to most chemicals
- No moving parts, low maintenance trouble-free operation
- Unique design allows maximum cavitation in the injection chamber, thereby providing instantaneous mixing
- Ideally suited for continuous mixing functions, requires no secondary blending devices
- Initial cost and installation cost are low
- Powered by the motive fluid, no external energy required for most installations
- Available in a broad range of sizes, flows and injection capacities

**\*\*Please note it is strongly recommended that a pressure gauge be fitted on either side of the injector**

### MAZZEI VENTURI FERTILIZER INJECTOR SPARE PARTS

Suction Kit



Ball / Spring & Washer



MODELS	CODE
7.8lph Mazzei Venturi Fertiliser Injector - 15mm	HR283
38.4lph Mazzei Venturi Fertiliser Injector - 15mm	HR384
48lph Mazzei Venturi Fertiliser Injector - 15mm	HR484
PVDF Mazzei Venturi Fertiliser Injector - 20mm Suitable for chlorine, sulphuric and nitric acids Resistant to ozone	484X
81.6lph Mazzei Venturi Fertiliser Injector - 20mm	HR584
212.4lph Mazzei Venturi Fertiliser Injector - 25mm	HR878
327lph Mazzei Venturi Fertiliser Injector - 25mm	HR1078
652.8lph Mazzei Venturi Fertiliser Injector - 40mm	HR1583A
4716lph Mazzei Venturi Fertiliser Injector - 50mm	HR2081A

MODELS	CODE
Suction Kit suits HR283, HR384, HR484 & HR584	HRK184
Suction Kit suits HR878, HR1078 & HR1583A	HRK183
Suction Kit suits HR2081A	HRK282

MODELS	CODE
Ball & Washer for HR383, HR484, HR584	CR2
Ball / Spring & Washer for HR878, HR1078	CR3

\* Injection flow rates for Mazzei Injectors based on 350kPa inlet with 211kPa on outlet

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Information needed to select an Injector -

### 1. INLET PRESSURE (Upstream Pressure Available) -

What is the pressure upstream from the injector?

### 2. MOTIVE FLOW RATE (Flow through the Injector) -

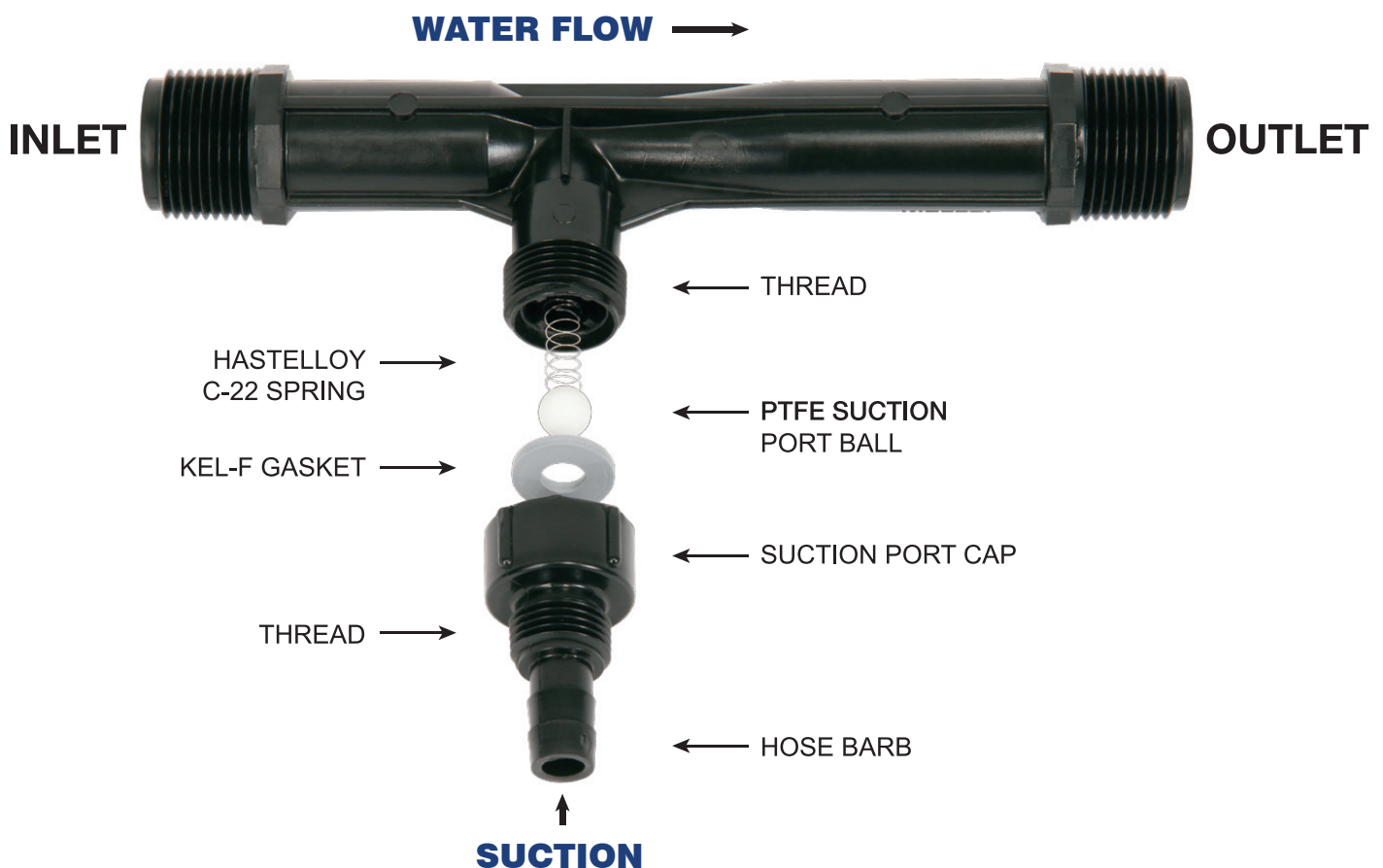
How much water needs to go through the injector?

### 3. OUTLET PRESSURE (Downstream Pressure) -

What pressure will the Injector see downstream after installation?

### 4. INJECTION RATE (Suction Rate) -

How much do you want to inject?



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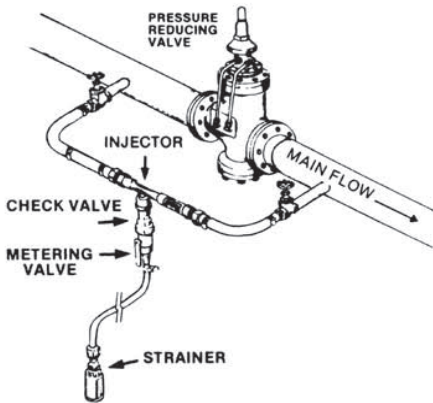
FERTILISER INJECTORS

## MAZZEI VENTURI FERTILISER INJECTORS - 15MM - 50MM

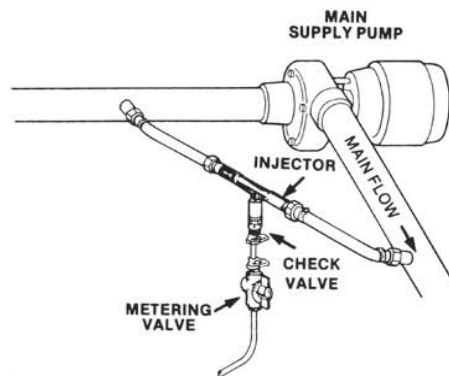
### How the Mazzei Fertilizer Injector works:

When pressurized, operating (motive) fluid enters the Injector inlet, it is constricted toward the injection chamber and changes into a high velocity jet stream. The increase in velocity through the injection chamber results in a decrease in pressure, thereby enabling an additive material to be drawn through the suction port and entrained into the motive stream. As the jet stream is diffused toward the injector outlet, its velocity is reduced and it is converted into pressure energy (but at a pressure lower than the injector inlet pressure.)

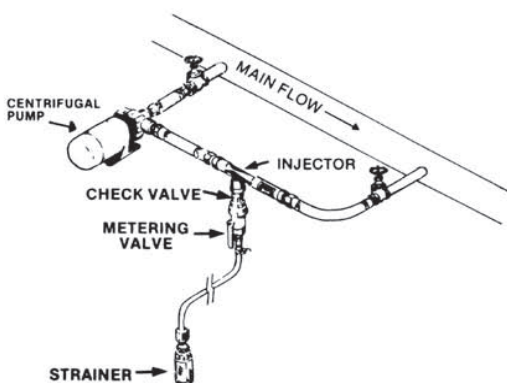
### Typical Installations



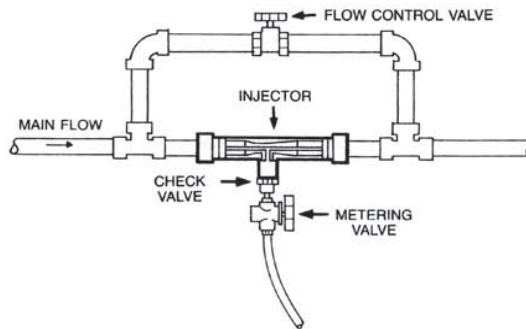
Injector installed around a point of restriction such as a regulator valve or gate valve which creates a differential pressure, thereby allowing the injector to produce a vacuum.



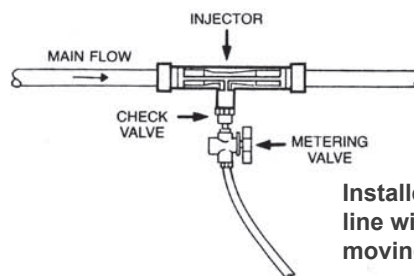
Injector installed across the differential pressure created by an existing booster or supply pump in the system. It is plumbed from the discharge side to the intake side of the pump.



Installed in conjunction with a centrifugal pump to boost pressure through the injector thereby creating a differential pressure and producing a vacuum for chemical induction downstream from the pump.



Injector installed in main flow line with flow control valve on by-pass line.



Installed directly in the main flow line with total flow of the system moving through the injector.

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# PRODUCT SPECIFICATION

## FERTILISER INJECTORS

INJECTOR PERFORMANCE TABLE

Operating Pressure		Suction Capacity of Mazzei Injectors at Various Operating Conditions																										
Inlet kPa	Outlet kPa	HR283 15mm		HR384 15mm		HR484 15mm		484X 20mm		HR584 20mm		HR878 25mm		HR1078 25mm		HR1583 40mm		HR2081A 50mm										
		Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm									
35	0	0.64	0.20	2.7	0.65	0.92	4.5	0.65	4.5	1.4	1.8	13.8	3.9	6.4	20.7	6.4	8.5	123	39.7									
	7		0.13																	0.54	0.47	0.42	1.0	1.8	2.2	2.9	5.3	39.7
	14		0.06																	0.32	0.46	0.46	1.7	1.7	1.5	1.3	3.3	39.7
	21																						1.6	0.63	0.46	0.17		13.5
	28		*(0.25)																	*(0.27)	*(0.31)	*(0.25)	*(0.31)	*(0.28)	*(0.28)	*(0.31)	*(0.32)	8.5
70	0	0.91	0.30	3.8	0.96	1.1	6.4	0.88	6.4	1.4	1.7	19.5	5.9	6.6	29.3	4.7	9.0	174	39.7									
	14		0.18																	0.72	0.38	0.74	1.7	1.7	2.3	2.6	4.9	29.5
	35		0.07																	0.48	0.17	0.23	0.83	0.83	0.99	1.2	2.6	9.4
	49																			0.13			0.69	0.69	0.23	0.27		1.9
	56		*(0.49)																	*(0.58)	*(0.59)	*(0.53)	*(0.63)	*(0.61)	*(0.61)	*(0.57)	*(0.61)	*(0.63)
105	0	1.1	0.34	4.6	0.84	1.1	7.8	0.72	7.8	2.4	1.7	23.9	5.5	6.3	35.9	4.0	7.8	213	39.7									
	35		0.17																	0.71	0.52	0.98	1.7	1.7	3.9	5.0	10.3	39.3
	49		0.11																	0.53	0.30	0.30	0.88	0.88	1.4	2.1	5.4	36.3
	70																						0.69	0.69	0.45	1.0	0.92	13.4
	84		*(0.74)																	*(0.91)	*(0.88)	*(0.61)	*(0.95)	*(0.88)	*(0.88)	*(0.92)	*(0.91)	*(0.94)
141	0	1.2	0.37	5.4	0.82	1.1	9.0	0.98	9.0	2.4	1.5	27.6	5.2	6.1	41.4	4.4	9.0	245	39.7									
	35		0.23																	0.83	0.59	0.53	1.5	1.5	5.0	6.0	12.9	39.7
	70		0.13																	0.58	0.40	0.49	0.84	0.84	3.0	3.2	8.3	29.5
	84		0.03																	0.40			1.2	1.2	2.1	3.2	8.3	18.8
	105		*(1.05)																	*(1.16)	*(1.20)	*(0.93)	*(1.27)	*(1.16)	*(1.16)	*(1.22)	*(1.26)	*(1.23)
176	0	1.3	0.37	6.0	0.89	1.1	10.1	1.0	10.1	2.4	1.5	30.9	5.1	6.0	46.3	5.6	9.0	274	39.7									
	35		0.20																	0.89	0.86	0.62	1.5	1.5	5.1	6.0	14.2	39.7
	70		0.16																	0.80	0.86	0.46	1.3	1.3	4.6	4.3	9.3	39.5
	105		0.04																	0.42			1.3	1.3	2.8	4.3	9.3	25.4
	141		*(1.30)																	*(1.44)	*(1.52)	*(1.16)	*(1.55)	*(1.48)	*(1.48)	*(1.54)	*(1.55)	*(1.57)
211	0	1.5	0.38	6.6	0.89	1.0	11.1	1.0	11.1	2.5	1.5	33.9	5.0	5.9	50.8	5.9	9.9	301	39.7									
	35		0.37																	0.91	1.0	2.4	1.6	4.9	5.9	14.2	39.7	
	70		0.24																	0.87	1.0	1.8	1.5	4.8	5.9	14.2	39.7	
	105		0.15																	0.67	0.71	1.0	1.5	4.1	5.1	10.5	32.2	
	141		0.05																	0.28	0.44		1.1	2.2	3.4	7.9	21.5	
176	*(1.58)	*(1.77)	*(1.79)	*(1.20)	*(1.90)	*(1.84)	*(1.84)	*(1.83)	*(1.83)	*(1.83)	3.9																	
246	0	1.5	0.38	7.1	0.91	1.0	11.9	1.0	11.9	2.5	1.6	36.6	5.0	5.9	54.8	5.9	10.7	325	39.7									
	35		0.38																	0.91	1.0	2.4	1.6	5.0	5.9	14.2	39.7	
	70		0.30																	0.91	1.0	2.1	1.6	4.8	5.9	14.1	39.7	
	105		0.21																	0.86	1.0	1.5	1.5	4.7	5.7	12.9	39.5	
	141		0.11																	0.59	0.70	0.93	1.3	3.3	4.6	10.4	29.0	
176	*(1.83)	*(2.01)	*(2.07)	*(1.65)	*(2.22)	*(2.12)	*(2.12)	*(2.11)	*(2.07)	*(2.14)	16.1																	
281	0	1.6	0.38	7.6	0.89	1.0	12.8	1.1	12.8	2.5	1.6	39.1	4.8	5.8	58.6	5.8	11.5	347	39.7									
	35		0.38																	0.89	1.1	2.4	1.6	4.8	5.8	14.4	39.7	
	70		0.35																	0.88	1.0	2.4	1.6	4.8	5.8	14.3	39.7	
	105		0.26																	0.88	1.0	1.8	1.6	4.8	5.8	13.9	39.7	
	141		0.16																	0.79	0.96	1.3	1.5	4.6	5.7	12.1	33.0	
176	0.07	0.47	0.71	0.41	1.3	3.1	4.5	9.6	24.8																			
211	*(2.07)	*(2.25)	*(2.34)	*(1.84)	*(2.50)	*(2.42)	*(2.42)	*(2.42)	*(2.35)	*(2.36)	10.6																	
316	0	1.7	0.38	8.0	0.86	1.0	13.5	1.0	13.5	2.6	1.6	41.5	5.0	5.8	62.2	5.9	12.2	368	39.7									
	35		0.38																	0.87	1.0	2.4	1.6	5.0	5.8	14.4	39.7	
	70		0.37																	0.87	1.1	2.3	1.6	5.0	5.8	14.3	39.7	
	105		0.31																	0.86	1.1	2.2	1.6	5.0	5.8	14.1	39.7	
	141		0.21																	0.87	1.0	1.6	1.6	4.9	5.9	13.4	38.2	
176	0.17	0.76	0.87	1.1	1.4	4.2	5.4	11.0	32.0																			
211	0.06	0.38	0.64		1.2	2.7	4.1	7.1	21.5																			
246	*(2.35)	*(2.54)	*(2.59)	*(1.78)	*(2.81)	*(2.70)	*(2.70)	*(2.72)	*(2.64)	*(2.67)	9.4																	
352	0	1.8	0.38	8.5	0.89	1.0	14.3	1.0	14.3	2.6	1.6	43.7	4.7	5.8	65.5	5.8	12.8	388	39.7									
	35		0.38																	0.89	1.0	2.5	1.6	4.7	5.8	14.3	39.7	
	70		0.38																	0.89	1.1	2.4	1.6	4.7	5.8	14.2	39.7	
	105		0.36																	0.89	1.1	2.3	1.6	4.7	5.8	14.2	39.7	
	141		0.30																	0.85	1.1	1.8	1.6	4.7	5.8	14.1	39.7	
176	0.22	0.85	1.0	0.51	1.5	4.3	5.8	12.8	37.0																			
211	0.13	0.63	0.80		1.3	3.5	5.4	10.8	28.5																			
246	0.04	0.38	0.49		0.99	2.3	4.0	7.6	18.9																			
281	*(2.60)	*(2.78)	*(2.88)	*(2.04)	*(3.16)	*(2.97)	*(2.97)	*(2.95)	*(2.95)	*(2.92)	7.2																	

\*Numbers in parenthesis indicate the injector outlet pressure when suction stops (Zero Suction Point).

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		Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm	Motive Flow lpm	Liquid Suction lpm		
422	0		0.38		0.86		1.1		2.6		1.6		4.5		5.8		14.4		39.7		
	35		0.38		0.86		1.1		2.6		1.6		4.5		5.8		14.4		39.7		
	70		0.38		0.85		1.1		2.4		1.6		4.5		5.8		14.4		39.7		
	105	2.0	0.38	9.3	0.85	15.6	1.1	15.6	2.4	27.4	1.6	47.9	4.5	71.8	5.8	141	14.3	425	39.7		
	141		0.36		0.84		1.1		2.3		1.6		4.5		5.8		14.3		39.7		
	211		0.24		0.78		1.0		1.4		1.6		4.4		5.8		13.0		37.8		
	246		0.15		0.73		0.96				1.5		3.9		5.7		11.5		32.0		
	281		0.08		0.52		0.75				1.2		2.6		4.8		9.3		24.0		
	316		*(3.20)		*(3.33)		*(3.57)		*(2.43)		*(3.76)	0.90	*(3.60)	1.0	*(3.59)	2.8	*(3.47)	5.1	*(3.52)	13.6	
492	0		0.38		0.76		1.1		2.6		1.6		4.6		5.8		14.4		39.7		
	35		0.38		0.76		1.1		2.6		1.6		4.6		5.8		14.4		39.7		
	70		0.38		0.77		1.0		2.4		1.6		4.6		5.8		14.4		39.7		
	105		0.38		0.76		1.0		2.3		1.6		4.6		5.8		14.4		39.7		
	141	2.2	0.38	10.0	0.77	16.9	1.0	16.9	2.2	29.6	1.6	51.7	4.6	77.5	5.8	152	14.4	459	39.7		
	211		0.33		0.77		1.0		1.9		1.6		4.6		5.8		14.2		39.7		
	281		0.18		0.75		1.0		1.0		1.6		4.2		5.8		12.5		33.3		
	316		0.12		0.69		0.84				1.4		2.9		5.1		10.0		27.7		
	352		0.05		0.47		0.71				1.0		1.9		3.4		7.8		20.5		
387		*(3.80)		*(3.68)		*(4.11)		*(2.86)		*(4.43)	0.57	*(4.10)	0.81	*(4.14)	1.8	*(3.99)	2.7	*(4.11)	8.9		
562	0		0.38		0.73		1.0		2.6		1.6		4.6		5.9		14.6		39.7		
	35		0.38		0.73		1.0		2.6		1.6		4.6		5.9		14.6		39.7		
	70		0.38		0.73		1.0		2.6		1.6		4.6		5.9		14.6		39.7		
	105		0.38		0.73		1.0		2.5		1.6		4.6		5.9		14.6		39.7		
	141	2.3	0.38	10.7	0.73	18.0	1.0	18.0	2.5	31.6	1.6	55.3	4.6	82.9	5.9	162	14.6	491	39.7		
	211		0.38		0.73		1.0		2.5		1.6		4.6		5.9		14.6		39.7		
	281		0.28		0.73		0.99		1.7		1.6		4.6		5.9		13.9		38.1		
	352		0.15		0.71		0.94		0.43		1.5		3.5		5.7		11.1		31.9		
	422				0.43		0.39				1.0		1.6		3.3		5.8		17.0		
457		*(4.26)		*(4.35)		*(4.64)		*(3.65)		*(5.10)	0.49	*(4.75)	0.50	*(4.82)	2.0	*(4.92)	0.75	*(4.68)	3.8		
633	0		0.38		0.70		0.86		2.6		1.7		4.6		5.9		14.4		39.7		
	35		0.38		0.70		0.86		2.6		1.7		4.6		5.9		14.4		39.7		
	70		0.38		0.70		0.86		2.5		1.7		4.6		5.9		14.4		39.7		
	141		0.38		0.70		0.86		2.5		1.7		4.6		5.9		14.4		39.7		
	211	2.5	0.38	11.4	0.70	19.1	0.86	19.1	2.4	33.6	1.7	58.7	4.6	87.9	5.9	172	14.4	521	39.7		
	281		0.36		0.70		0.86		2.1		1.7		4.6		6.0		14.4		39.7		
	352		0.22		0.70		0.86		1.6		1.7		4.4		5.9		13.7		37.9		
	422		0.10		0.69		0.84				1.5		3.0		5.3		11.2		28.9		
	492				0.29		0.26				0.83		1.1		2.4		3.0		11.3		
527		*(4.78)		*(4.99)		*(5.20)		*(3.81)		*(5.66)	0.33	*(5.32)	<0.10	*(5.41)	1.2	*(5.14)		*(5.31)			
703	0		0.38		0.68		0.83		2.6		1.8		4.8		5.9		14.6		39.7		
	35		0.38		0.69		0.83		2.6		1.8		4.8		5.9		14.6		39.7		
	70		0.38		0.68		0.83		2.5		1.8		4.8		5.9		14.6		39.7		
	141		0.38		0.69		0.83		2.5		1.8		4.8		5.9		14.6		39.7		
	211	2.6	0.38	12.0	0.69	20.2	0.83	20.2	2.5	35.4	1.8	61.8	4.8	92.7	5.9	182	14.6	549	39.7		
	281		0.38		0.68		0.83		2.2		1.8		4.8		5.9		14.6		39.7		
	352		0.32		0.69		0.83		1.7		1.8		4.7		5.9		14.4		39.2		
	422		0.19		0.69		0.83				1.7		4.2		5.9		13.0		37.4		
	492		0.07		0.66		0.81				1.4		2.8		5.1		9.2		26.0		
562		*(5.34)		*(5.52)		*(5.83)		*(4.19)		*(6.33)	1.0	*(5.94)	0.82	*(6.05)	1.9	*(5.72)	1.6	*(5.84)	7.6		
844	0		0.38		0.68		0.77		2.8		2.0		4.7		5.9				39.7		
	35		0.38		0.68		0.77		2.7		2.0		4.7		5.9				39.7		
	70		0.38		0.68		0.77		2.7		2.0		4.7		5.9				39.7		
	141		0.38		0.68		0.77		2.6		2.0		4.7		5.9				39.7		
	211		0.38		0.68		0.77		2.5		2.0		4.7		5.9				39.7		
	281		0.38		0.68		0.77		2.3		2.0		4.7		5.9				39.7		
	352	2.9	0.35	13.1	0.68	22.1	0.77	22.1	2.0	38.7	2.0	67.7	4.7	101	5.9	-		601	39.7		
	422		0.33		0.68		0.77		1.5		1.9		4.7		6.0				38.6		
	492		0.25		0.68		0.76		1.2		1.9		4.4		5.9				37.5		
562		0.15		0.68		0.76				1.8		3.8		5.7				33.0			
633		0.06		0.54		0.73				1.0		2.1		3.8				33.0			
703		*(6.54)		*(6.81)		*(7.01)		*(5.00)		*(7.52)		*(7.14)	0.54	*(7.17)	1.4			*(7.09)	19.5		

\*Numbers in parenthesis indicate the injector outlet pressure when suction stops (Zero Suction Point).

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