

Injector Performance Table

Water Suction Capacity

REV 2014

Operating Pressure PSIG		Model 283 ½" Threads		Model 287 ½" Threads		Model 384 ½" Threads		Model 384X ½" Threads		Model 484 ½" & ¾" Threads		Model 484X ¾" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH
5	0	0.17	3.2	0.29	5.2	0.71	10.3	0.71	11.7	1.2	14.6	1.2	23.5
	1		2.0		2.6		8.7		8.6		10.4		16.6
	2		1.1		1.8		7.4		4.0		6.6		11.9
	3				1.2		5.0						7.3
	4		*(3.5)										
10	0	0.24	4.7	0.32	6.2	1.0	15.3	1.0	17.5	1.7	18.7	1.7	29.7
	2		2.8		4.8		11.5		13.5		13.9		23.0
	5		1.2		1.9		7.6		2.0		6.0		11.8
	7				0.8		2.0				2.7		3.7
	8		*(7.0)										
15	0	0.28	5.4	0.42	6.8	1.2	13.3	1.2	27.7	2.1	18.7	2.1	38.6
	5		2.7		4.1		11.3		11.7		11.4		20.9
	7		1.7		2.9		8.4		4.1		8.2		15.6
	10				1.3		4.8						
	12		*(10.5)										
20	0	0.32	5.8	0.51	7.0	1.4	13.0	1.4	29.6	2.4	18.0	2.4	39.5
	5		3.7		6.1		13.1		17.1		15.6		27.6
	10		2.0		3.4		9.2		3.0		9.4		13.3
	12		0.6		1.9		6.3				7.7		8.4
	15		*(15.0)		0.5		0.5		2.5				
25	0	0.35	5.9	0.57	7.8	1.6	14.1	1.6	33.1	2.7	17.8	2.7	39.5
	5		4.8		6.9		14.2		22.4		17.2		32.1
	10		2.6		4.4		12.7		11.2		13.7		22.0
	15		0.7		2.3		6.6				7.4		9.9
	20		*(18.5)										
30	0	0.39	6.0	0.65	8.0	1.7	14.1	1.7	33.8	2.9	17.2	2.9	39.7
	5		5.8		7.9		14.4		24.6		17.0		38.1
	10		3.8		5.6		13.8		17.3		16.6		28.8
	15		2.4		3.6		10.7		6.9		11.2		17.0
	20		0.8		1.7		4.5				7.0		
25	*(22.5)												
35	0	0.41	6.0	0.70	8.1	1.9	14.4	1.9	33.7	3.1	17.3	3.1	40.3
	5		6.0		8.0		14.4		29.0		17.3		39.3
	10		4.8		6.8		14.4		19.1		17.3		33.8
	15		3.4		5.0		13.7		10.7		17.3		24.2
	20		1.7		3.0		9.4				11.1		14.7
25	*(26.0)	0.6	1.1	2.9		3.9							
40	0	0.43	6.0	0.75	8.1	2.0	14.1	2.0	33.9	3.4	17.1	3.4	40.8
	5		6.0		8.1		14.1		31.5		17.7		38.6
	10		5.5		7.4		13.9		24.1		17.7		38.5
	15		4.2		6.3		13.9		14.2		17.7		29.9
	20		2.6		4.3		12.6		3.5		15.2		20.6
25	1.2	2.7	7.5		11.4	6.5							
30	*(29.5)												
45	0	0.46	6.0	0.81	8.1	2.1	13.7	2.1	33.9	3.6	17.2	3.6	41.4
	5		6.0		8.1		13.7		31.6		17.2		39.0
	10		5.8		8.1		13.7		30.7		17.4		37.9
	15		4.9		6.9		13.7		18.9		17.4		34.9
	20		3.4		5.5		13.7		11.0		16.7		26.9
25	2.7	4.0	12.1	1.4	13.8	18.2							
30	1.0	2.4	6.1		10.2								
35	*(33.5)					3.6							
50	0	0.48	6.0	0.85	8.3	2.2	14.1	2.2	33.8	3.8	17.4	3.8	41.6
	5		6.0		8.3		14.1		32.7		17.4		40.4
	10		6.0		8.3		14.1		31.7		17.7		39.1
	15		5.7		8.0		14.1		25.3		17.7		37.3
	20		4.7		5.9		13.5		15.2		17.7		29.4
25	3.5	4.5	13.5	6.7	16.4	20.2							
30	2.1	3.0	10.1		12.7								
35	0.7	1.2	6.0		7.7								
40	*(37.0)												

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

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Injector Performance Table

Water Suction Capacity														REV 2014
Operating Pressure PSIG		Model 283 ½" Threads		Model 287 ½" Threads		Model 384 ½" Threads		Model 384X ½" Threads		Model 484 ½" & ¾" Threads		Model 484X ¾" Threads		
Injector INLET	Injector OUTLET	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	
60	0	0.54	6.0	0.92	8.3	2.5	13.7	2.5	34.3	4.1	17.7	4.1	42.4	
	5		6.0		8.3		13.7		34.2		17.7		42.2	
	10		6.0		7.8		13.5		34.0		17.7		38.3	
	15		6.0		7.8		13.5		31.9		17.6		38.0	
	20		5.7		7.8		13.4		24.1		17.6		37.5	
	30		3.8		5.7		12.3		9.1		17.2		23.1	
	35		2.4		4.1		11.6		1.5		15.2			
	40		1.3		2.7		8.3				12.0			
	45		*(45.5)				0.7		*(47.3)		2.4		*(35.4)	
70	0	0.58	6.0	0.99	8.3	2.6	12.1	2.6	35.1	4.5	18.0	4.5	42.3	
	5		6.0		8.3		12.1		35.8		18.0		42.5	
	10		6.0		8.3		12.2		34.7		17.1		39.5	
	15		6.0		8.3		12.1		32.9		17.1		37.2	
	20		6.0		8.3		12.2		30.7		17.1		35.6	
	30		5.2		7.4		12.2		17.9		17.1		31.3	
	40		2.9		4.7		11.9		3.4		16.2		16.3	
	45		1.9		3.5		11.0				13.4			
	50		0.9		1.7		7.5				11.3			
	55		*(54.0)				*(55.0)		*(52.4)				*(41.5)	
80	0	0.60	6.0	1.1	8.3	2.8	11.7	2.8	34.5	4.8	16.9	4.8	42.3	
	5		6.0		8.3		11.7		34.2		16.9		41.9	
	10		6.0		8.3		11.6		34.6		16.9		41.8	
	15		6.0		8.3		11.7		32.9		16.9		40.7	
	20		6.0		8.3		11.7		31.6		16.1		40.7	
	30		6.0		8.1		11.6		26.3		16.2		39.7	
	40		4.5		6.4		11.6		11.7		15.7		26.9	
	50		2.3		4.1		11.2				14.9		6.8	
	60				0.9		6.8				6.1			
	65		*(60.5)				*(63.0)		*(61.9)				*(47.2)	
90	0	0.65	6.0	1.1	8.3	3.0	11.1	3.0	34.8	5.1	13.6	5.1	42.2	
	5		6.0		8.3		11.1		34.2		13.6		41.9	
	10		6.0		8.3		11.1		34.4		13.6		40.7	
	20		6.0		8.3		11.1		32.9		13.6		40.7	
	30		6.0		8.3		11.1		29.6		13.6		39.4	
	40		5.7		7.9		11.1		18.4		13.6		33.4	
	50		3.5		5.7		11.1		4.8		13.6		26.3	
	60		1.6		3.5		11.0				13.3			
	70				0.2		4.6				4.2			
	75		*(68.0)				*(71.0)		*(71.0)				*(53.1)	
100	0	0.69	6.0	1.2	7.7	3.2	10.8	3.2	33.5	5.3	13.2	5.3	42.4	
	5		6.0		7.7		11.0		33.0		13.2		41.9	
	10		6.0		7.7		10.8		32.6		13.2		40.7	
	20		6.0		7.7		11.0		31.8		13.2		39.6	
	30		6.0		7.7		11.0		31.6		13.2		40.7	
	40		6.0		7.4		10.8		29.3		13.2		34.9	
	50		5.0		7.2		11.0		12.2		13.1		27.0	
	60		3.0		5.2		11.0				13.3			
	70		1.2		3.0		10.4				12.8			
	80		*(76.0)				*(79.0)		*(78.6)				*(59.0)	
120	0	0.76	6.0	1.3	6.4	3.5	10.8	3.5	33.9	5.8	12.3	5.8	45.8	
	5		6.0		6.4		10.8		33.6		12.3		43.8	
	10		6.0		6.4		10.8		33.1		12.3		43.2	
	20		6.0		6.4		10.8		31.7		12.3		41.9	
	30		6.0		6.4		10.8		30.5		12.3		40.1	
	40		6.0		6.4		10.8		30.5		12.2		36.8	
	50		5.6		6.1		10.8		25.1		12.2		32.0	
	60		5.2		5.8		10.8		13.9		12.2		24.8	
	70		3.9		4.8		10.8		2.1		12.1		20.3	
	80		2.3		3.7		10.8				12.1			
	90		1.0		1.5		8.6				11.7			
	100		*(93.0)				*(95.0)		*(96.8)				*(71.3)	

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

Injector Performance Table

Water Suction Capacity

REV 2014

Operating Pressure PSIG		Model 584 ½" & ¾" Threads		Model 684 ¾" Threads		Model 878-03 1" Threads		Model 885X-03 1" Threads		Model 1078-03 1" Threads		Model 1583 1½" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH
5	0	2.1	29.1	3.5	27.4	3.6	62.8	3.6	78.0	5.5	101	10.7	135
	1		28.9		20.2		36.1		62.5		46.4		84.4
	2		28.4		13.8		23.8		42.7		22.1		53.2
	3		25.3		6.6		7.3		15.5		2.7		
	4		*(4.4)		9.9		*(4.3)		5.6		*(4.1)		1.6
10	0	3.0	28.2	5.0	27.2	5.2	93.7	5.0	115	7.7	105	15.2	219
	2		28.1		27.3		61.9		90.7		75.6		143
	5		27.4		18.4		36.4		44.7		41.7		78.7
	7		13.2		10.8		15.8		19.4		19.1		42.0
	8		*(9.0)		10.9		*(8.5)		6.0		*(8.7)		3.7
15	0	3.6	28.1	6.1	26.1	6.3	87.3	6.2	135	9.5	101	18.6	225
	5		27.9		26.1		62.1		83.1		79.9		163
	7		28.0		25.0		45.4		58.0		64.6		124
	10		13.9		12.8		23.6		19.1		34.2		86.5
	12		*(13.5)		11.0		*(13.0)		7.0		*(12.5)		7.2
20	0	4.2	24.8	7.0	25.1	7.3	82.8	7.1	141	10.9	98.2	21.4	228
	5		24.8		25.2		80.4		117		95.4		205
	10		23.7		25.2		48.6		57.6		69.9		143
	12		19.1		18.4		33.6		36.1		51.5		131
	15		*(18.0)		14.5		*(16.5)		10.4		*(16.5)		21.0
25	0	4.7	25.1	7.8	24.8	8.2	82.3	8.0	142	12.2	95.9	24.0	226
	5		25.2		24.8		81.3		135		96.6		226
	10		25.1		24.9		73.2		96.5		89.4		193
	15		20.8		24.3		45.3		38.4		68.1		148
	20		*(22.0)		12.1		*(21.0)		5.1		*(21.0)		20.1
30	0	5.1	25.3	8.6	24.5	8.9	79.9	8.7	144	13.4	94.3	26.3	226
	5		25.3		24.6		79.1		140		94.4		226
	10		24.9		24.6		76.9		125		94.4		211
	15		25.1		24.5		65.3		69.3		82.0		167
	20		18.2		14.7		35.3		14.3		55.4		125
25	*(27.0)	11.5	*(26.0)	6.7	*(26.1)	9.0	*(20.5)	*(26.0)	*(26.0)		18.3		
35	0	5.5	25.5	9.3	24.7	9.7	79.3	9.4	142	14.5	93.9	28.4	226
	5		25.5		24.6		79.3		141		93.9		226
	10		25.4		24.7		77.5		135		93.9		224
	15		25.2		24.7		74.5		106		91.8		205
	20		21.9		24.9		52.3		54.1		74.1		164
25	*(31.5)	16.5	*(29.5)	12.9	*(30.1)	30.2	*(24.0)	*(30.0)	*(29.4)		89.0		
40	0	5.9	25.6	9.9	24.9	10.3	77.4	10.1	140	15.5	93.1	30.3	227
	5		25.5		25.0		77.4		141		93.1		228
	10		25.6		25.1		77.4		139		93.1		227
	15		25.5		25.0		77.4		128		93.1		220
	20		25.2		25.0		73.6		90.4		91.8		192
25	21.3	24.7	50.6	36.8	72.2	153							
30	*(35.5)	15.0	*(35.0)	10.8	*(34.4)	28.2	*(27.0)	*(34.4)	*(34.4)		81.4		
45	0	6.3	25.8	10.5	25.0	11.0	79.6	10.7	140	16.4	92.8	32.2	227
	5		25.9		25.0		79.6		139		92.8		228
	10		25.9		25.0		79.6		139		92.8		227
	15		25.8		25.0		79.6		134		92.8		223
	20		25.7		25.0		78.8		112		93.8		212
25	23.5	25.1	67.0	74.4	86.9	174							
30	19.4	20.6	44.1	23.1	66.1	113							
35	*(40.0)	13.5	*(37.5)	8.4	*(38.4)	22.0	*(31.0)	*(38.7)	*(37.5)		47.1		
50	0	6.6	25.5	11.1	25.0	11.5	74.7	11.3	139	17.3	92.4	33.9	227
	5		25.5		24.9		74.7		140		92.4		227
	10		25.5		24.9		74.7		140		92.4		226
	15		25.5		25.0		74.7		139		92.4		225
	20		25.4		24.9		74.7		128		92.4		224
25	24.4	24.9	68.3	106	92.3	203							
30	21.5	17.1	56.1		86.3	172							
35	15.7	9.1	36.6		64.3	120							
40	*(45.0)	2.8	*(42.0)	6.7	*(42.3)	9.5	*(36.0)	*(43.9)	*(41.9)		40.4		

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

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Injector Performance Table

Water Suction Capacity														REV 2014
Operating Pressure PSIG		Model 584 ½" & ¾" Threads		Model 684 ¾" Threads		Model 878-03 1" Threads		Model 885X-03 1" Threads		Model 1078-03 1" Threads		Model 1583 1½" Threads		
Injector INLET	Injector OUTLET	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	
60	0	7.2	26.4	12.1	25.1	12.6	72.4	12.3	140	19.0	92.7	37.2	229	
	5		26.4		25.0		72.4		140		92.7		228	
	10		26.3		25.3		72.4		140		92.7		229	
	15		26.3		25.3		72.4		140		92.7		226	
	20		26.2		25.2		72.4		138		92.7		227	
	30		25.3		25.2		71.2		110		93.0		206	
	35		23.8		25.1		63.3		73.3		91.7		182	
	40		20.0		13.4		41.4		33.2		77.1		147	
	45		*(53.5)		14.4		*(50.0)		7.0		*(51.2)		16.3	*(43.0)
70	0	7.8	25.8	13.1	25.4	13.7	73.6	13.3	141	20.5	93.3	40.1	228	
	5		25.8		25.3		73.6		141		93.3		228	
	10		25.9		25.5		73.6		140		93.3		228	
	15		25.9		25.4		73.6		140		93.3		228	
	20		25.8		25.5		73.6		140		93.3		228	
	30		25.6		25.4		73.6		135		93.4		225	
	40		25.6		25.4		67.5		87.6		92.3		198	
	45		23.3		20.7		46.9		44.5		81.8		159	
	50		16.7		10.5		30.7				54.5		124	
55	*(63.0)	9.0	*(58.3)	6.9	*(58.3)	12.9	*(51.0)	*(58.9)	28.7	*(56.7)	43.2			
80	0	8.4	26.2	14.0	25.5	14.6	74.2	14.2	139	21.9	93.8	42.9	231	
	5		26.2		25.5		74.2		139		93.8		231	
	10		26.2		25.5		74.2		140		93.8		231	
	15		26.2		25.6		74.2		139		93.8		231	
	20		26.3		25.6		74.2		140		93.8		231	
	30		26.2		25.6		74.2		139		93.8		231	
	40		26.3		25.6		73.7		124		94.7		220	
	50		25.0		25.6		56.9		60.0		91.5		177	
	60		17.1		15.6		25.8				52.8		93.1	
65	*(72.5)	7.8	*(67.0)	5.0	*(67.5)	7.9	*(57.0)	*(68.5)	33.0	*(70.1)	11.9			
90	0	8.9	27.0	14.9	25.7	15.5	74.2	15.1	141	23.2	94.4	45.5	229	
	5		27.0		25.8		74.2		139		94.4		229	
	10		27.0		25.7		74.2		141		94.4		229	
	20		27.4		25.8		74.2		139		94.4		229	
	30		27.2		25.8		74.2		140		94.4		229	
	40		27.2		25.8		74.2		136		95.6		229	
	50		27.2		25.8		70.0		103		94.3		217	
	60		24.4		25.8		47.8		34.7		84.6		177	
	70		13.2		25.7		18.1				39.5		49.0	
75	*(80.5)	5.2	*(76.0)	13.3	*(75.6)	0.84	*(66.0)	*(76.9)	20.5	*(73.1)				
100	0	9.3	28.7	15.7	23.5	16.3	76.3	15.9	141	24.5	94.1	48.0	232	
	5		28.7		24.2		76.3		141		94.1		232	
	10		28.7		24.2		76.3		141		94.1		232	
	20		29.2		23.9		76.3		141		94.1		232	
	30		29.0		23.9		76.3		140		94.1		232	
	40		28.8		23.9		76.3		139		94.1		232	
	50		28.8		23.9		74.5		130		93.9		228	
	60		28.4		23.9		67.7		87.7		94.9		206	
	70		23.3		24.0		44.6		32.5		81.3		146	
80	*(90.0)	16.8	*(85.0)	21.5	*(84.5)	13.0	*(73.0)	*(86.0)	30.6	*(81.3)	25.7			
120	0	10.2	32.1	17.2	24.5	17.9	75.3	17.4	140	26.8	94.4			
	5		32.1		24.9		75.3		140		94.4			
	10		32.1		24.6		75.3		140		94.4			
	20		32.1		24.6		75.3		140		94.4			
	30		32.1		24.7		75.3		140		94.4			
	40		31.8		24.5		75.3		140		94.4			
	50		31.8		24.4		75.3		135		94.4			
	60		31.6		24.7		74.9		131		95.2			
	70		31.6		24.5		70.2		84.6		94.4			
	80		28.6		21.7		61.2		28.0		90.8			
	90		17.1		19.4		34.5				61.2			
100	*(107)		*(102)	18.1	*(101)	8.5	*(85.0)	*(102)	22.3					

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

Injector Performance Table

Water Suction Capacity

REV 2014

Operating Pressure PSIG		Model 1585X 1½" Threads		Model 1587 1½" Threads		Model 2081 2" Threads		Model 2083X 2" Threads		Model 3090 3" Threads		Model 4091 4" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH
5	0	10.7	123	17.7	244	32.4	629	8.4	456	76.4	1,050	170	2,100
	1		74.7		102		629		157		900		1,500
	2		26.3		91.4		629				758		1,200
	3				54.2		214				456		840
	4		*(3.5)				*(4.1)		135		*(1.4)		
10	0	15.2	241	25.0	269	45.8	629	13.1	560	108	1,446	214	2,820
	2		155		249		629		154		1,448		2,820
	5		43.3		103		467				872		1,860
	7				58.3		149				396		780
	8		*(6.5)				*(8.7)		30.0		*(2.4)		
15	0	18.6	262	30.6	270	56.2	630	16.1	671	132	1,434	251	2,820
	5		157		184		623				1,428		2,820
	7		86.5		154		576				1,042		2,280
	10				98.5		213				554		720
	12		*(9.4)				*(13.5)		76		*(3.7)		
20	0	21.4	308	35.4	267	64.8	630	18.9	757	153	1,416	272	2,820
	5		231		265		630		236		1,416		2,820
	10		120		174		468				1,170		2,700
	12		39.3		142		298				792		1,800
	15		*(12.7)				*(17.0)		151		*(5.7)		
25	0	24.0	324	39.6	265	72.5	630	21.8	811	171	1,344	307	2,820
	5		275		264		630		429		1,340		2,820
	10		204		229		626				1,358		2,820
	15		50.5		156		404				930		1,980
	20		*(15.4)				*(22.1)		134		*(7.1)		
30	0	26.3	323	43.3	263	79.4	630	23.1	849	187	1,308	332	2,820
	5		299		261		630		779		1,310		2,820
	10		251		268		630				1,308		2,820
	15		137		200		511				1,282		2,580
	20				164		341				578		1,380
25	*(19.3)		*(25.6)	33.3	*(26.0)		*(8.8)		*(25.5)		*(26.0)	240	
35	0	28.4	326	46.8	285	85.8	630	24.4	853	202	1,290	360	2,820
	5		318		284		630		669		1,290		2,820
	10		286		287		630		288		1,266		2,820
	15		204		251		626				1,188		2,820
	20		66.6		191		459				906		2,640
25	*(22.4)		*(29.0)	143	*(30.5)		*(10.4)		*(29.5)		*(30.5)	1,440	
40	0	30.3	324	50.0	287	91.7	630	26.4	897	216	1,254	382	2,820
	5		321		284		630		919		1,254		2,820
	10		307		282		630		388		1,254		2,820
	15		257		278		630				1,256		2,820
	20		146		244		523				1,110		2,820
25	11.9	180	394		712	1,860							
30	*(25.5)		*(33.2)	115	*(33.5)		*(11.6)		*(32.5)		*(35.0)	900	
45	0	32.2	326	53.1	259	97.3	630	27.7	947	229	1,260	402	2,820
	5		324		259		630		748		1,260		2,820
	10		318		260		630		485		1,260		2,820
	15		287		257		630				1,258		2,820
	20		210		256		606				1,200		2,820
25	106	225	507		962	2,820							
30		157	341		580	2,400							
35	*(28.7)		*(38.3)	73.5	*(38.0)		*(13.4)		*(36.0)		*(38.9)	960	
50	0	33.9	323	55.9	260	102	630	28.6	1,175	241	1,236	416	2,820
	5		319		259		630		1,278		1,236		2,820
	10		315		259		630		578		1,236		2,820
	15		296		258		630				1,236		2,820
	20		251		257		630				1,238		2,820
25	156	252	587		1,194	2,820							
30	45.4	205	452		882	2,640							
35		137	299		499	1,620							
40	*(32.4)		*(41.0)	75.1	*(41.5)		*(14.4)		*(40.5)		*(43.1)	360	

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

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Injector Performance Table

Water Suction Capacity

REV 2014

Operating Pressure PSIG		Model 1585X 1½" Threads		Model 1587 1½" Threads		Model 2081 2" Threads		Model 2083X 2" Threads		Model 3090 3" Threads		Model 4091 4" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH	Motive Flow GPM	Water Suction GPH
60	0	37.2	319	61.3	275	112	630	31.5	1,350	265	1,242	460	2,820
	5		318		275		630		1,362		1,242		2,820
	10		317		275		630		850		1,242		2,820
	15		307		275		630		520		1,242		2,820
	20		288		275		630				1,244		2,820
	30		174		271		600				1,238		2,820
	35		76.4		259		508				1,126		2,760
	40				212		380				760		2,520
	45		*(38.2)				117		*(50.0)		216		*(17.9)
70	0	40.1	316	66.2	277	121	630	33.8	1,430	286	1,230	495	2,760
	5		316		277		630		1,509		1,230		2,760
	10		316		277		630		1,261		1,230		2,760
	15		312		277		630		719		1,230		2,760
	20		300		277		630		438		1,230		2,760
	30		260		274		630				1,228		2,760
	40		68.2		263		528				1,208		2,760
	45				209		440				1,100		2,760
	50				151		326				720		1,860
55	*(44.7)		58.2	*(58.5)	142	*(20.9)		*(58.5)	402	*(60.5)	960		
80	0	42.9	321	70.8	275	130	630	34.8	1,454	305	1,230	532	2,700
	5		321		275		630		1,519		1,230		2,700
	10		321		275		630		1,396		1,230		2,700
	15		321		275		630		825		1,230		2,700
	20		311		275		630		575		1,230		2,700
	30		287		275		630				1,230		2,700
	40		209		273		604				1,230		2,700
	50				229		505				1,158		2,700
	60				92.5		269				594		1,800
65	*(51.1)		51.4	*(66.5)	60.7	*(24.2)		*(67.5)	300	*(69.5)	840		
90	0	45.5	309	75.1	274	138	630	36.6	1,486	324	1,230	569	2,520
	5		309		274		630		1,526		1,230		2,520
	10		309		274		630		1,481		1,230		2,520
	20		302		274		630		1,085		1,230		2,520
	30		295		274		630		638		1,230		2,520
	40		270		274		630				1,230		2,520
	50		106		272		601				1,232		2,400
	60				208		458				1,090		2,340
	70				62.6		179				466		1,680
75	*(57.5)			*(74.0)		*(31.7)		*(76.5)		*(79.1)	840		
100	0	48.0	305	79.1	275	145	630	39.3	1,447	342	1,230	600	2,520
	5		305		275		630		1,524		1,230		2,520
	10		305		275		630		1,449		1,230		2,520
	20		300		275		630		1,009		1,230		2,520
	30		282		275		630		885		1,230		2,520
	40		273		275		630				1,230		2,520
	50		193		274		621				1,234		2,520
	60		14.6		265		593				1,226		2,520
	70				179		412				942		2,340
80	*(63.2)		62.6	*(83.0)	120	*(33.2)		*(85.0)	376	*(88.6)	900		
120	0			86.7	269	159	630	43.2	1,456				
	5				269		630						
	10				269		630						
	20				269		630						
	30				269		630						
	40				269		630						
	50				269		630						
	60				270		612						
	70				268		595						
	80				226		523						
	90				106		309						
100				*(97.9)		*(100)		*(36.5)					

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Injector Performance Table

Air Suction Capacity

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Operating Pressure PSIG		Model 287 ½" Threads		Model 384 ½" Threads		Model 484 ½" & ¾" Threads		Model 484X ¾" Threads		Model 584 ½" & ¾" Threads		Model 684 ¾" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH
5	0	0.29	<1.0	0.67	0.60	1.1	5.5	1.1	7.8	2.0	8.8	3.4	9.0
	1		0.19		2.0		2.7		3.2		5.7		
	2				0.35		0.67		1.2		3.0		
	3				0.13		0.48		0.73		1.0		
	4		*(3.5)		*(3.9)		*(4.4)		*(3.5)		*(4.4)		*(4.3)
10	0	0.31	1.0	0.94	3.5	1.6	9.6	1.6	13.1	2.8	14.6	4.7	13.2
	2		<1.0		1.5		3.0		3.9		9.3		
	5				0.34		0.72		1.1		3.6		
	7						0.34		0.38		0.77		1.5
	8		*(7.7)		*(8.2)		*(8.4)		*(7.5)		*(9.0)		*(8.5)
15	0	0.41	2.0	1.2	6.6	2.0	12.6	2.0	17.7	3.5	17.4	5.8	15.4
	5		<1.0		1.0		2.3		2.8		7.2		
	7				0.60		1.3		1.5		4.4		
	10						0.61				0.98		2.1
	12		*(11.5)		*(12.9)		*(12.5)		*(8.7)		*(13.5)		*(13.0)
20	0	0.50	3.0	1.3	8.8	2.3	14.7	2.3	21.4	4.0	20.5	6.7	23.6
	5		<1.0		2.2		4.7		5.3		15.0		
	10				0.64		1.2		1.4		5.7		
	12						0.84		0.99		1.7		3.8
	15		*(16.0)		*(16.5)		*(17.0)		*(13.2)		*(18.0)		*(16.5)
25	0	0.57	3.5	1.5	9.5	2.6	15.7	2.6	24.8	4.5	23.1	7.5	27.5
	5		<1.0		3.0		6.0		8.4		19.6		
	10				1.1		2.0		2.0		8.2		
	15						0.71		1.2		1.9		3.7
	20		*(19.5)		*(20.5)		*(21.6)		*(16.5)		*(22.0)		*(21.0)
30	0	0.63	3.5	1.6	9.9	2.8	16.5	2.8	27.4	4.9	26.1	8.2	30.4
	5		<1.0		3.6		9.0		10.4		23.7		
	10				1.5		3.8		3.3		11.9		
	15				0.77		1.6		1.8		5.9		
	20						0.68				1.8		3.4
25	*(24.5)	*(25.2)	*(25.5)	*(17.2)	*(27.0)	*(26.0)	1.3						
35	0	0.69	4.0	1.8	10.3	3.0	17.5	3.0	30.5	5.3	28.4	8.9	33.0
	5		<1.0		3.8		11.8		14.2		25.9		
	10				1.8		5.4		4.7		16.3		
	15				1.0		2.5		2.3		8.8		
	20				0.57		1.3		1.8		5.5		
25	*(27.0)	*(28.6)	*(29.5)	*(23.5)	*(31.5)	*(29.5)	3.0						
40	0	0.74	4.5	1.9	10.7	3.2	18.1	3.2	32.9	5.7	30.7	9.5	35.0
	5		1.0		4.6		12.6		16.9		27.1		
	10		<1.0		2.2		7.4		7.3		20.9		
	15				1.3		3.6		3.1		11.7		
	20				0.78		1.8		2.4		8.1		
25			1.1		2.7	4.9							
30	*(31.0)	*(32.0)	*(33.3)	*(26.1)	*(35.5)	*(35.0)	3.4						
45	0	0.79	4.5	2.0	11.6	3.4	19.2	3.4	33.0	6.0	31.6	10.1	36.9
	5		2.0		5.5		13.6		19.9		29.9		
	10		<1.0		2.8		8.3		8.9		23.6		
	15				1.6		4.4		4.2		15.4		
	20				1.0		2.8		2.5		9.8		
25		0.70	1.7	2.0	6.5								
30			0.94		2.5	4.0							
35	*(35.0)	*(36.1)	*(36.8)	*(25.4)	*(40.0)	*(37.5)	2.5						
50	0	0.83	4.5	2.1	12.5	3.6	20.7	3.6	33.8	6.3	33.1	10.6	42.0
	5		2.5		6.1		15.2		23.5		33.0		
	10		<1.0		3.4		9.0		11.6		28.4		
	15				1.9		5.1		5.4		19.5		
	20				1.2		3.5		3.3		12.0		
25		0.91	2.7	2.4	8.0								
30			1.4		3.5	5.9							
35			0.87		2.2	3.7							
40	*(39.0)	*(39.6)	*(41.0)	*(29.0)	*(45.0)	*(42.0)	2.0						

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Injector Performance Table

Air Suction Capacity

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Operating Pressure PSIG		Model 287 ½" Threads		Model 384 ½" Threads		Model 484 ½" & ¾" Threads		Model 484X ¾" Threads		Model 584 ½" & ¾" Threads		Model 684 ¾" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH
60	0	0.91	6.0	2.3	13.4	4.0	20.1	4.0	36.6	6.9	36.2	11.6	42.7
	5		<1.0		7.9		17.0		30.3		26.7		34.9
	10		<1.0		4.3		11.7		16.3		21.0		31.5
	15		<1.0		2.8		7.6		10.1		13.6		27.5
	20		<1.0		1.8		5.1		5.2		10.0		17.2
	30		<1.0		0.97		2.4		2.7		5.7		9.3
	35		<1.0		0.56		1.6				4.3		6.8
	40		<1.0				1.2				2.8		5.2
	45		<1.0								2.0		3.2
		*(47.0)		*(47.3)		*(50.7)		*(34.6)		*(53.5)		*(50.0)	
70	0	0.98	7.0	2.5	14.4	4.3	20.7	4.3	39.6	7.5	36.6	12.6	42.9
	5		<1.0		9.6		18.5		31.6		28.8		39.6
	10		<1.0		5.5		14.5		20.9		23.6		35.1
	15		<1.0		3.6		10.1		15.1		17.2		31.4
	20		<1.0		2.4		7.0		7.5		12.8		27.1
	30		<1.0		1.3		3.9		3.7		8.0		13.6
	40		<1.0		0.87		2.2		2.4		4.6		8.1
	45		<1.0				1.6				3.8		5.9
	50		<1.0				1.0				2.7		4.4
		*(55.0)		*(52.4)		*(58.5)		*(40.7)		*(63.0)		*(58.3)	
80	0	1.0	7.0	2.7	15.9	4.6	21.4	4.6	40.2	8.0	38.0	13.4	42.9
	5		<1.0		11.2		20.0		38.2		31.0		41.8
	10		<1.0		6.6		16.0		28.8		26.2		36.6
	15		<1.0		4.7		11.8		18.3		21.9		34.4
	20		<1.0		3.3		8.5		10.0		16.0		32.1
	30		<1.0		1.8		5.0		5.0		10.4		17.0
	40		<1.0		1.2		3.0		3.1		7.1		10.9
	50		<1.0		0.86		1.6		2.1		4.6		6.6
	60		<1.0				0.92				2.6		4.3
		*(63.0)		*(61.9)		*(66.0)		*(51.9)		*(72.5)		*(67.0)	
90	0	1.1	7.0	2.8	17.2	4.8	21.9	4.8	42.6	8.5	38.5	14.2	43.1
	5		<1.0		12.8		20.3		39.7		32.7		42.3
	10		<1.0		7.8		17.6		32.9		28.9		39.4
	20		<1.0		4.1		10.2		15.9		19.7		34.3
	30		<1.0		2.3		6.2		7.2		12.9		24.7
	40		<1.0		1.5		4.3		4.5		8.8		14.8
	50		<1.0		1.0		2.7		2.9		5.8		10.1
	60		<1.0		0.81		1.5				3.8		7.1
	70		<1.0				0.88				2.2		4.2
		*(71.0)		*(71.0)		*(74.0)		*(54.3)		*(80.5)		*(76.0)	
100	0	1.2	7.0	3.0	17.8	5.1	21.9	5.1	44.4	9.0	39.2	15.0	43.6
	5		<1.0		13.9		20.9		42.6		35.2		43.1
	10		<1.0		8.9		18.9		36.6		30.3		42.0
	20		<1.0		4.7		12.2		18.7		23.1		38.1
	30		<1.0		2.7		7.6		10.3		14.4		33.0
	40		<1.0		1.9		5.5		6.0		11.0		18.0
	50		<1.0		1.4		3.5		3.9		7.6		13.1
	60		<1.0		1.0		2.1				5.2		9.5
	70		<1.0		0.78						3.3		6.6
		*(79.0)		*(78.6)		*(82.9)		*(59.7)		*(90.0)		*(85.0)	
120	0	1.3	7.0	3.3	19.5	5.6	22.8	5.6	48.7	9.8	40.3	16.5	43.8
	5		<1.0		15.3		21.9		47.0		38.4		43.2
	10		<1.0		11.1		21.0		42.6		33.5		42.5
	20		<1.0		6.1		15.3		26.1		27.5		39.8
	30		<1.0		3.8		10.7		15.0		18.5		38.4
	40		<1.0		2.6		7.8		8.4		13.9		27.2
	50		<1.0		2.0		5.9		5.6		10.8		18.1
	60		<1.0		1.5		4.1		4.1		7.6		13.7
	70		<1.0		1.2		2.8		3.0		6.2		10.8
	80		<1.0		1.0		2.0				4.3		8.2
	90		<1.0								3.1		5.9
100	<1.0				1.8	3.7							
		*(95.0)		*(96.8)		*(99.7)		*(71.2)		*(107)		*(102)	

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

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Injector Performance Table

Air Suction Capacity

REV 2014

Operating Pressure PSIG		Model 784 ¾" Threads		Model 878-03 1" Threads		Model 885X-03 1" Threads		Model 978-03 1" Threads		Model 1078-03 1" Threads		Model 1583 1½" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH
5	0	4.3	11.7	3.5	14.9	3.4	18.3	4.1	18.5	5.2	24.3	10.3	39.4
	1		9.8		5.4		9.0		5.1		6.4		17.1
	2		4.7		1.5		1.4		1.8		2.7		3.9
	3		2.1		0.41				0.90		1.5		2.0
	4		*(4.5)		0.99		*(4.1)		*(4.0)		*(3.9)		*(4.0)
10	0	6.1	19.3	4.9	33.9	4.8	26.9	5.7	29.9	7.4	40.1	14.5	85.3
	2		15.6		8.5		15.2		11.2		16.1		25.9
	5		5.7		2.8		1.8		3.1		4.1		8.3
	7		2.0		0.88				1.2		1.5		4.1
	8		*(9.0)		0.93		*(8.7)		*(7.5)		*(9.0)		*(8.1)
15	0	7.5	28.8	6.1	36.0	5.9	38.3	7.0	37.9	9.1	48.6	17.8	114
	5		16.5		7.4		7.9		8.8		13.1		21.7
	7		8.7		3.8		3.4		5.6		7.8		13.9
	10		4.1		0.74				2.4		3.3		6.2
	12		*(13.0)		1.9		*(12.5)		*(11.0)		*(13.4)		*(13.1)
20	0	8.6	33.7	7.0	44.2	6.8	47.1	8.1	44.1	10.5	55.0	20.6	133
	5		21.2		12.5		13.5		14.5		22.1		35.6
	10		8.0		4.3		3.6		6.0		8.5		14.8
	12		4.9		2.7				4.0		5.6		9.4
	15		*(17.5)		2.4		*(16.5)		*(14.0)		*(16.8)		*(17.3)
25	0	9.6	40.0	7.8	44.7	7.6	57.1	9.1	48.0	11.7	60.9	23.0	139
	5		29.1		17.4		27.9		18.7		33.2		48.7
	10		14.0		6.7		7.1		8.6		14.3		23.5
	15		3.3		3.4		2.8		4.6		7.5		11.8
	20		*(22.3)		1.2		*(21.0)		*(17.0)		*(20.8)		*(21.9)
30	0	10.6	48.2	8.6	51.0	8.3	66.9	9.9	49.7	12.9	70.6	25.2	158
	5		32.5		26.1		46.2		26.6		46.4		56.6
	10		20.3		11.3		12.3		12.6		20.5		30.8
	15		9.6		6.4		5.5		7.2		11.2		16.3
	20		4.2		2.9		2.0		3.8		6.1		8.9
25	*(26.5)	2.0	*(26.1)	*(20.5)	*(26.5)	*(26.0)	*(26.0)	6.6					
35	0	11.4	46.4	9.3	51.9	9.0	87.4	10.7	48.2	13.9	74.0	27.2	161
	5		38.1		34.3		27.4		29.1		52.9		68.3
	10		29.7		14.0		16.0		16.2		24.7		36.2
	15		15.2		8.6		7.9		11.0		13.6		22.0
	20		8.2		4.7		4.3		6.8		9.0		13.5
25	*(31.0)	4.0	*(30.1)	*(24.0)	*(30.3)	*(30.0)	*(29.4)	10.2					
40	0	12.2	52.9	9.9	55.8	9.6	80.8	11.5	52.0	14.8	79.8	29.1	173
	5		44.8		40.6		39.2		38.7		57.9		79.2
	10		35.8		17.6		21.3		20.2		31.4		43.4
	15		20.4		11.6		11.2		13.1		18.9		28.4
	20		11.5		6.6		6.8		8.6		13.0		18.8
25	7.1	4.8	4.5	5.5	8.0	12.2							
30	*(34.0)	3.1	*(34.4)	*(27.0)	*(34.3)	*(34.4)	*(33.4)	9.7					
45	0	12.9	56.4	10.5	66.9	10.2	77.1	12.2	54.8	15.7	85.9	30.8	194
	5		48.1		42.1		48.7		42.5		62.8		97.4
	10		38.5		20.7		27.2		23.4		38.3		51.2
	15		29.0		12.8		14.7		16.1		23.2		33.9
	20		14.9		8.9		9.1		11.1		15.7		23.4
25	9.5	5.1	6.5	7.2	11.3	16.2							
30	6.0	4.1	3.5	4.8	7.0	12.9							
35	*(38.0)	2.5	*(38.4)	*(31.0)	*(38.7)	*(38.7)	*(37.5)	9.1					
50	0	13.6	58.1	11.1	64.9	10.7	83.8	12.8	61.1	16.6	87.7	32.5	195
	5		51.9		48.7		49.6		48.3		66.4		109
	10		43.0		23.8		32.2		27.0		42.3		59.0
	15		35.7		16.1		17.7		19.3		25.6		41.4
	20		20.3		10.3		11.2		13.7		16.1		28.2
25	13.6	8.3	7.5	10.0	12.7	18.9							
30	9.2	4.6	4.8	6.8	8.6	13.9							
35	6.0	4.3		4.5	5.3	9.8							
40	*(42.8)	2.8	*(42.3)	*(36.0)	*(42.1)	*(43.9)	*(41.9)	6.7					

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

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Injector Performance Table

Air Suction Capacity REV 2014

Operating Pressure PSIG		Model 784 ¾" Threads		Model 878-03 1" Threads		Model 885X-03 1" Threads		Model 978-03 1" Threads		Model 1078-03 1" Threads		Model 1583 1½" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH
60	0	14.9	59.3	12.1	71.3	11.7	120	14.1	73.0	18.2	91.5	35.6	214
	5		57.4		54.9		58.2		57.0		76.3		150
	10		49.4		33.4		45.1		37.3		57.5		75.5
	15		44.1		20.2		23.0		24.7		34.5		52.5
	20		35.0		14.6		16.3		18.1		24.3		39.6
	30		15.5		7.8		8.7		10.7		14.0		20.7
	35		10.4		5.7		6.5		7.9		10.3		16.8
	40		8.0		4.3		3.0		5.6		7.3		11.9
	45		*(50.0)		4.8		*(51.2)		2.4		*(43.0)		*(51.5)
70	0	16.1	59.9	13.1	77.0	12.7	135	15.2	73.6	19.6	100	38.5	241
	5		59.8		60.1		63.5		62.7		81.7		189
	10		54.7		40.7		46.3		49.3		67.5		100
	15		49.6		25.5		29.9		32.0		46.3		67.1
	20		46.3		19.1		22.5		22.9		31.8		47.7
	30		22.3		11.2		12.8		14.9		19.6		27.4
	40		13.5		6.7		7.6		9.2		12.4		18.0
	45		9.8		5.0		5.3		6.9		8.7		12.5
	50		7.5		4.1				4.7		7.0		12.0
55	*(58.3)	4.2	*(58.3)	2.1	*(51.0)	*(60.0)	2.9	*(58.9)	4.5	*(56.7)	11.0		
80	0	17.3	61.0	14.0	81.2	13.5	154	16.2	76.3	21.0	105	41.1	249
	5		60.1		65.0		61.1		67.3		89.6		198
	10		58.0		49.9		55.2		55.9		74.8		108
	15		54.1		31.0		34.2		38.1		57.7		72.4
	20		51.6		23.1		28.7		27.8		39.5		58.8
	30		34.1		14.1		16.2		19.0		24.7		37.5
	40		18.3		9.0		10.1		11.6		17.0		23.8
	50		11.7		5.8		6.2		7.4		10.1		15.0
	60		6.2		3.8				4.0		6.3		12.4
65	*(67.0)	3.5	*(67.5)	2.3	*(57.0)	*(67.5)	3.7	*(68.5)	4.5	*(70.1)	8.8		
90	0	18.3	61.9	14.8	85.3	14.4	168	17.2	87.9	22.3	112	43.6	262
	5		62.0		69.6		68.3		69.8		96.3		208
	10		61.7		56.4		61.6		61.1		81.7		139
	20		56.2		26.9		35.0		33.1		48.8		71.3
	30		48.2		17.3		19.7		22.6		29.4		47.3
	40		25.2		12.1		13.0		16.0		20.8		31.5
	50		16.4		7.9		8.8		9.9		14.9		21.9
	60		11.0		5.1		4.6		7.2		9.1		12.9
	70		5.7		3.4				4.4		5.8		7.1
75	*(76.0)	3.6	*(75.6)	2.1	*(66.0)	*(76.4)	3.6	*(76.9)	4.2	*(73.1)			
100	0	19.3	62.0	15.6	88.6	15.1	184	18.2	90.9	23.5	116	46.0	279
	5		62.8		72.4		73.4		76.1		103		231
	10		61.5		62.8		65.1		67.3		87.7		166
	20		58.3		30.9		42.5		39.0		62.8		80.8
	30		52.6		20.3		24.1		27.7		37.1		55.1
	40		35.7		14.5		15.9		19.2		25.7		38.3
	50		20.8		10.0		11.3		13.3		18.0		26.6
	60		14.5		7.2		7.8		9.7		12.6		19.2
	70		9.6		5.1				6.9		8.3		17.4
80	*(85.0)	4.9	*(84.5)	2.9	*(73.0)	*(85.1)	4.4	*(86.0)	5.5	*(81.3)	13.3		
120	0	21.1	63.3	17.1	98.1	16.6	209	19.9	93.9	25.7	124	50.4	295
	5		63.5		81.0		79.8		81.7		110		248
	10		63.2		70.8		73.2		71.7		97.9		216
	20		62.6		41.9		52.7		48.3		77.7		107
	30		57.2		26.1		28.5		33.4		46.9		71.0
	40		55.0		19.2		21.4		23.9		33.6		53.3
	50		34.4		14.5		16.8		16.0		25.0		39.6
	60		22.6		10.8		11.6		13.4		19.1		29.3
	70		16.6		7.8		9.9		10.0		14.1		20.5
	80		11.8		5.7		3.8		7.7		10.2		19.8
	90		7.3		4.6				5.5		6.7		16.1
100	*(102)		*(101)	2.5	*(85.0)	*(103)	3.9	*(102)	5.1	*(98.4)			

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

Injector Performance Table

Air Suction Capacity

REV 2016-12

Operating Pressure PSIG		Model 1584 1½" Threads		Model 1585X 1½" Threads		Model 1587 1½" Threads		Model 2081 2" Threads		Model 3090 3" Threads		Model 4091 4" Threads			
Injector INLET	Injector OUTLET	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH		
5	0	18.0	47.0	10.3	56.3	17.0	65.9	31	106	76	270	146	936		
	1		40.0		12.0		21.8						408		
	2		31.8		6.9		15.6						156		
	3		20.5				8.7						60		
	4		*(4.1)		10.6		*(3.5)						*(4.1)	*(4.1)	*(4.1)
10	0	25.5	98.0	14.5	64.9	24.0	127	43	230	106	412	189	1,626		
	2		72.4		20.0		61.1						21.8	257	648
	5		37.1		11.6		21.6						44	85	162
	7		20.5				9.7							42	66
	8		*(8.5)		12.6		*(6.5)						*(8.7)	*(9.0)	*(8.5)
15	0	31.2	144	17.8	117	29.4	153	54	434	129	797	230	2,436		
	5		71.7		18.7		42.6						87	191	420
	7		45.7		11.6		26.7						57	234	
	10		23.8				13.7							108	
	12		*(13.0)		9.3		*(9.4)						*(13.5)	*(13.3)	*(13.5)
20	0	36.1	170	20.6	130	33.9	173	61	568	149	1,076	267	2,772		
	5		102		31.1		64.2						141	327	744
	10		41.0		12.7		25.5						62	120	264
	12		31.1		6.4		18.7						45	87	168
	15		*(17.0)		12.6		*(12.7)						*(17.0)	*(17.5)	*(17.0)
25	0	40.3	185	23.0	145	37.9	195	68	660	167	1,308	296	3,252		
	5		128		48.5		91.0						229	519	1,056
	10		65.7		20.2		43.4						94	197	432
	15		33.1		8.0		19.0						49	94	204
	20		*(21.5)		12.0		*(15.4)						*(22.1)	*(22.3)	*(21.5)
30	0	44.2	194	25.2	169	41.5	230	75	719	183	1,483	324	3,768		
	5		152		60.8		114						329	903	1,950
	10		99.4		25.7		54.8						129	278	630
	15		54.3		14.7		30.0						78	146	318
	20		28.5				17.4						44	83	174
25	*(26.0)	10.0	*(19.3)	*(25.6)	*(26.0)	*(25.5)	*(25.5)								
35	0	47.7	206	27.2	175	44.9	230	80	778	197	1,644	351	3,702		
	5		173		78.1		143						449	1,259	2,328
	10		123		34.2		70.8						190	378	768
	15		72.4		20.6		41.6						105	214	474
	20		39.7		10.5		27.0						65	118	270
25	*(30.5)	22.5	*(22.4)	*(29.0)	*(30.5)	*(29.5)	*(29.5)								
40	0	51.0	212	29.1	177	48.0	255	86	807	211	1,771	374	4,038		
	5		188		87.4		189						562	1,298	2,664
	10		147		45.3		86.8						244	489	960
	15		98.7		24.9		52.4						137	288	624
	20		59.7		16.6		36.2						93	175	402
25	38.4	2.6	26.7	62	107	246									
30	*(35.0)	21.8	*(25.5)	*(33.2)	*(33.5)	*(32.5)	*(32.5)								
45	0	54.1	222	30.8	229	50.9	267	92	838	223	1,885	397	4,302		
	5		197		105		207						688	1,470	2,868
	10		157		51.1		91.1						286	607	1,182
	15		111		32.5		58.8						179	351	738
	20		73.7		21.6		39.9						112	230	522
25	49.7	12.2	28.2	85	147	342									
30	32.4		18.8	54	92	210									
35	*(39.5)	21.2	*(28.7)	*(38.3)	*(38.0)	*(36.0)	*(36.0)								
50	0	57.0	226	32.5	203	53.6	269	96	867	236	1,975	419	4,494		
	5		207		129		222						635	1,625	3,090
	10		175		56.6		111						343	765	1,620
	15		133		38.1		70.6						228	431	852
	20		96.6		27.4		51.7						146	294	648
25	68.3	17.5	37.3	95	201	450									
30	47.0	6.3	22.7	71	136	300									
35	31.8		19.6	51	92	186									
40	*(42.5)	18.5	*(32.4)	*(41.0)	*(41.5)	*(40.5)	*(40.5)								

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

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Injector Performance Table

Air Suction Capacity

REV 2017-08

Operating Pressure PSIG		Model 1584 1½" Threads		Model 1585X 1½" Threads		Model 1587 1½" Threads		Model 2081 2" Threads		Model 3090 3" Threads		Model 4091 4" Threads	
Injector INLET	Injector OUTLET	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH	Motive Flow GPM	Air Suction SCFH
60	0	62.5	238	35.6	232	58.7	306	106	906	257	2,150	457	4,764
	5		219		182		250		825		1,900		3,480
	10		190		77.7		161		527		1,365		3,156
	15		157		51.6		96.0		315		597		1,158
	20		120		35.6		71.7		227		420		834
	30		68.3		18.5		40.4		114		220		528
	35		53.0		10.1		31.9		88		156		378
	40		37.1				23.3		62		115		258
	45		25.8				21.8		47		86		168
	*(51.5)		*(38.2)		*(49.9)		*(50.0)		*(49.0)				
70	0	67.5	244	38.5	261	114	918	277	2,245	494	4,836	530	4,836
	5		232		213		882		2,245		3,810		
	10		207		90.3		687		1,870		3,396		
	15		179		59.9		390		794		1,602		
	20		150		46.4		298		550		1,074		
	30		91.9		26.9		170		315		708		
	40		56.3		12.2		93		182		420		
	45		43.0				72		137		306		
	50		33.1				55		105		204		
55	21.2		44	79	162								
	*(60.0)		*(44.7)		*(58.5)		*(58.5)						
80	0	72.2	248	41.1	276	122	912	297	2,320	530	4,878	530	4,878
	5		239		233		807		2,110		4,008		
	10		222		120		514		1,210		3,960		
	15		199		79.3		385		707		2,880		
	20		174		59.0		232		422		1,266		
	30		117		34.4		126		255		822		
	40		79.7		22.2		85		153		570		
	50		49.0		1.4		51		95		324		
	60		27.8				42		78		180		
65	17.9				144								
	*(68.0)		*(51.1)		*(66.5)		*(67.5)						
90	0	76.5	250	43.6	291	129	925	315	2,295	315	4,878	530	4,878
	5		246		234		788		2,000		4,008		
	10		234		138		450		863		3,960		
	20		193		65.8		300		517		2,880		
	30		142		41.9		188		332		1,266		
	40		98.0		27.6		112		210		822		
	50		68.3		13.2		77		127		570		
	60		46.3				48		88		324		
	70		26.5				40		70		180		
75	17.9				144								
	*(77.0)		*(57.5)		*(75.8)		*(76.5)						
100	0	80.7	252	46.0	318	137	930	332	2,296	332	4,878	530	4,878
	5		252		250		812		2,100		4,008		
	10		245		188		533		1,130		3,960		
	20		208		76.8		357		625		2,880		
	30		168		51.5		242		424		1,266		
	40		122		33.5		144		277		822		
	50		89.2		21.8		96		174		570		
	60		61.7		7.1		70		123		324		
	70		42.4				46		85		180		
80	25.2				144								
	*(86.0)		*(63.2)		*(82.0)		*(85.0)						
120	0	88.4	260	50.4	337	150	929	363	2,345	363	4,878	530	4,878
	5		257		262		820		2,220		4,008		
	10		255		234		680		1,600		3,960		
	20		237		100		482		840		2,880		
	30		208		64.9		348		599		1,266		
	40		169		46.2		253		427		822		
	50		130		35.5		166		296		570		
	60		98.7		22.2		110		202		324		
	70		75.7		8.3		85		143		180		
	80		55.0				60		105		144		
	90		37.1				43		83		108		
100	21.8				72	72							
	*(103)		*(75.3)		*(100.4)		*(102.0)						

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