

ROTARY

Pumps & Compressors QR Series 1/3 & 3/4 HP

MODELS:

Standard models available.

QR-0030 (291305), QR-0050 (291306)

QR-0080 (291303), QR-0100 (291304)

Other models based on availability and minimum purchase.

FEATURES:

- Quiet design
- Lightweight
- Oil-less, non-lubricated pump components
- Permanently lubricated-for-life motor ball bearings
- Extended life vane design
- Built-in inlet & exhaust filters
- External exhaust muffler
- UL & CSA recognition
- Die cast aluminum sound chamber
- Low air flow pulsations
- World Voltage Motors



291305
291306

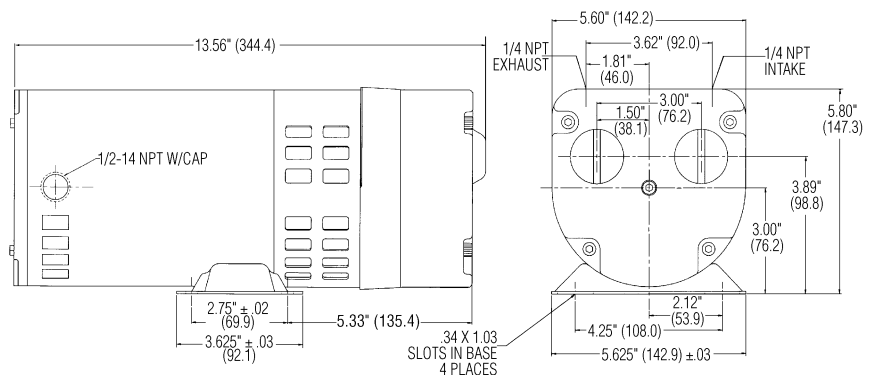


291303
291304
291309
291310

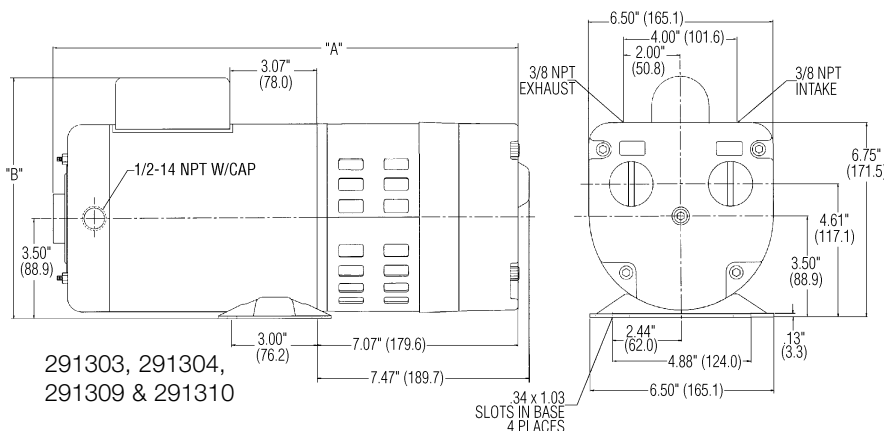
Consult factory for custom applications

DIMENSIONS:

Millimeters are in ()



291305 & 291306



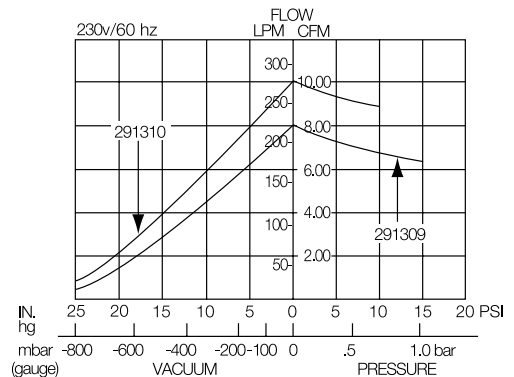
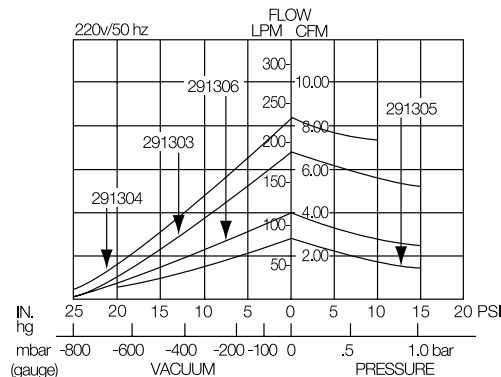
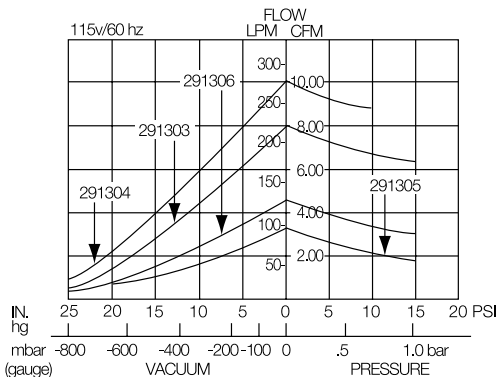
291303, 291304,
291309 & 291310

Part No.	Model No.	A IN. / (mm)	B IN. / (mm)
291303	QR-0080	16.41 / (416.9)	8.37 / (212.6)
291304	QR-0100	16.41 / (416.9)	8.37 / (212.6)
291309	QR-0080	16.37 / (415.8)	N/A / N/A
291310	QR-0100	16.37 / (415.8)	N/A / N/A



QR SERIES PERFORMANCE DATA:

		STANDARD		STANDARD		STANDARD		STANDARD					
MODEL NUMBER:		QR-0030		QR-0050		QR-0080		QR-0100		QR-0080		QR-0100	
MANUFACTURING CODE:		291305		291306		291303		291304		291309		291310	
HEAD CONFIGURATION:		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum	
PRESSURE:		Flow @ 115/220v		Flow @ 115/220v		Flow @ 115/220v		Flow @ 115/220v		Flow @ 230v		Flow @ 230v	
CFM @ PSI	LPM @ bar												
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	3.20/2.70	90.6/76.4	4.60/4.00	130.2/113.2	8.00/6.70	226.5/189.7	10.00/8.30	283.1/235.0	8.00	226.5	10.00	283.1
5	.5	2.70/2.30	70.0/58.7	4.10/3.50	109.7/92.7	7.35/6.20	201.1/168.5	9.40/7.80	258.5/214.4	7.35	201.1	9.40	258.5
10	1.0	2.20/1.80	49.5/40.7	3.60/3.00	86.6/69.6	6.80/5.65	177.2/148.5	8.80/7.30	233.8/193.9	6.80	177.2	8.80	233.8
15	1.5	1.70/1.40		3.00/2.40		6.20/5.20				6.20			
MAX. CONTINUOUS PRESSURE:		10 PSI	.7 bar	10 PSI	.7 bar	10 PSI	.7 bar	10 PSI	.7 bar	10 PSI	.7 bar	10 PSI	.7 bar
MAX. INTERMITTENT PRESSURE:		15 PSI	1.0 bar	15 PSI	1.0 bar	15 PSI	1.0 bar	10 PSI	.7 bar	15 PSI	1.0 bar	10 PSI	.7 bar
VACUUM:		Flow @ 115/220v		Flow @ 115/220v		Flow @ 115/220v		Flow @ 115/220v		Flow @ 230v		Flow @ 230v	
CFM @ IN. hg	LPM @ mbar (gauge)												
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	3.20/2.70	90.6/76.4	4.60/4.00	130.2/113.2	8.00/6.70	226.5/189.7	10.00/8.30	283.1/235.0	8.00	226.5	10.00	283.1
5	-100	2.50/2.20	78.9/68.0	3.80/3.30	116.8/101.5	6.40/5.30	119.7/166.3	8.10/6.60	251.3/206.5	6.40	199.7	8.10	251.3
10	-200	1.90/1.60	67.7/59.2	2.90/2.50	102.9/89.3	4.80/4.00	173.0/143.4	6.20/5.00	219.6/178.6	4.80	173.0	6.20	219.6
15	-400	1.30/1.10	47.6/40.1	2.00/1.70	72.8/62.5	3.40/2.80	121.5/100.9	4.40/3.40	157.0/125.1	3.40	121.5	4.40	157.0
20	-600	.60/50	26.0/21.9	1.20/90	44.3/35.8	2.00/1.40	74.7/57.7	2.50/1.90	95.3/73.1	2.00	74.7	2.50	95.3
25	-800			.30/10	17.5/9.0	.40/10	23.7/12.9	.80/35	35.9/21.9	.40	23.7	.80	35.9
MAX. VACUUM:		25.0" hg	-836 mbar	26.0" hg	-869 mbar	26.0" hg	-869 mbar	26.0" hg	-869 mbar	26.0" hg	-869 mbar	26.0" hg	-869 mbar
MAX. AMBIENT TEMPERATURE:		95°F	35°C	95°F	35°C	95°F	35°C	95°F	35°C	95°F	35°C	95°F	35°C
MIN. AMBIENT TEMPERATURE:		32°F	0°C	32°F	0°C	32°F	0°C	32°F	0°C	32°F	0°C	32°F	0°C
MAX. RESTART PRESSURE:		0 PSI	0 bar	0 PSI	0 bar	0 PSI	0 bar	0 PSI	0 bar	0 PSI	0 bar	0 PSI	0 bar
MAX. RESTART VACUUM:		0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar
MOTOR VOLTAGE/FREQUENCY:		100-115/200-240/60/50/1		100-115/200-240/60/50/1		100-115/200-240/60/50/1		100-115/200-240/60/50/1		200-240/460/60/3 200-220/380-415/50/3		200-240/460/60/3 200-220/380-415/50/3	
HORSEPOWER:		1/3		1/3		3/4		3/4		3/4		3/4	
MOTOR TYPE:		Split Phase		Split Phase		Capacitor Start		Capacitor Start		Polyphase		Polyphase	
CURRENT AT RATED LOAD (AMPS):		5.6/2.7		5.6/2.7		10.4/5.5		10.4/5.5		2.8/1.5		2.8/1.5	
POWER AT RATED LOAD (WATTS):		300/250		360/315		790/640		900/760		740/810		740/810	
STARTING CURRENT (LOCKED ROTOR, AMPS):		26.0/13.0		26.0/13.0		37.0/17.0		37.0/17.0		18.0/9.0		18.0/9.0	
INSULATION CLASS:		B		B		B		B		B		B	
MIN. FULL LOAD SPEED (RPM):		1725/1425		1725/1425		1725/1425		1725/1425		1725		1725	
THERMAL PROTECTOR:		Yes		Yes		Yes		Yes		No		No	
NET WEIGHT:		33 lbs.	15 Kg	33 lbs.	15 Kg	54 lbs.	24.5 Kg	54 lbs.	24.5 Kg	56 lbs.	25 Kg	56 lbs.	25 Kg
SHIP WEIGHT:		39 lbs.	18 Kg	39 lbs.	18 Kg	60 lbs.	27 Kg	60 lbs.	27 Kg	62 lbs.	28 Kg	62 lbs.	28 Kg



The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas Industries does not warrant, guarantee or assume any obligation or liability in connection with this information.

Note: Models pictured are representative of the series and do not represent a specific model number. Consult factory for detailed physical description.