TA Series - DC or AC Voltage, 1/4 to 1.0 HP

THOMAS
An Ingersoll Rand Business

FEATURES

>Oil-less design
>Permanently lubricated and sealed bearings
>Cast iron cylinders
>PTFE piston rings and skirts
>Long service free life
>Field service capability
>Totally enclosed motor
>Low vibration
>Quiet operation
>Low profile

Declaration documentation available upon request

TYPICAL APPLICATIONS

>Air Suspension
>Central Tire Inflation
>Defense Equipment Manufacturing
>Fire Suppression Systems
>Kneeler Suspension Systems
>Load Leveling Air Suspension Systems
>Pneumatic Doors
>Wheel Flange Lubrication

BASE MODELS

DC Voltage

TA-3101-DC (270024)
(12V DC)

TA-4101-DC (270025)
(12V DC)

TA-4102-DC (270047)
(24V DC)

TA-5102-DC (270058)
(12V DC)

AC Voltage

TA-4101 (270015)
(115/230/60/1)

TA-4172 (270072)
(115/230/60/1)

TA-5102 (270011)
(115/230/60/1)

TA-5102 (270040)
(110/220-240/50/1)

TA-5172 (270073)
(115/230/60/1)

TA-5172 (270078)
(110/220-240/50/1)

TA-6102 (270012)
(115/230/60/1)

TA-6102 (270044)
(190/380/50/3 & 208-230/460/60/3)

TA-6172 (270080)
(115/230/60/1)

TA-6172 (270082)
190/380/50/3 & 208-230/460/60/3)

Articulated Piston

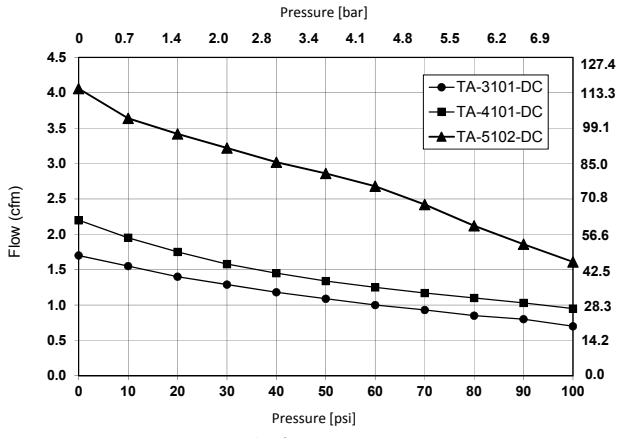
TA Series - DC

Flow	Up to 4.0 cfm (113.2 l/min)
Max. pressure	Up to 100 psig (6.9 bar)
Max. vacuum	**N/A**

TA-3101-DC
TA-4101-DC

Oil-less

TA-5102-DC



NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.values.

PERFORMANCE DATA

Model number	TA-3101-DC	TA-4101-DC	TA-4101-DC	TA-5102-DC
Manufacturing code	270024	270025	270047	270058
Number of cylinders	1	1	1	2
Nominal voltage input	12V DC	12V DC	24V DC	12V DC
Max. open air flow	1.70 cfm (48.1 l/min)	2.20 cfm (62.2 l/min)	2.20 cfm (62.2 l/min)	4.00 cfm (115.0 l/min)
Max. rated pressure	100 psi (7.0 bar)	100 psi (7.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	26.0A	28.0A	18.5A	45.0A
Power at rated pressure	330W	340W	440W	540W
Max. pressure restart	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (7.0 bar)	100 psi (7.0 bar)
Max. vacuum	N/A	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A	N/A

ELECTRICAL DATA

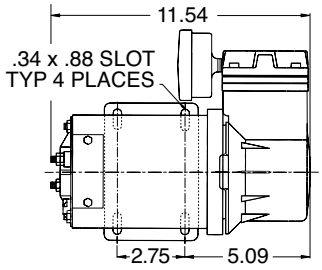
Motor type	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet
Motor locked rotor current	156A	198A	122A	230A
Thermal Protector	No	No	No	No
Capacitor Value	N/A	N/A	N/A	N/A
Horsepower	1/4	1/3	1/3	1/2

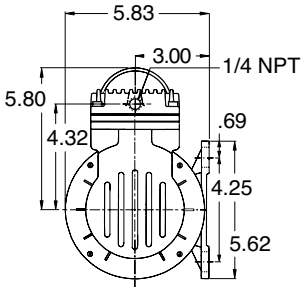
GENERAL DATA

Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	22 lbs (10.0 kg)	22 lbs (10.0 kg)	25 lbs (11.3 kg)	40 lbs (18.1 kg)

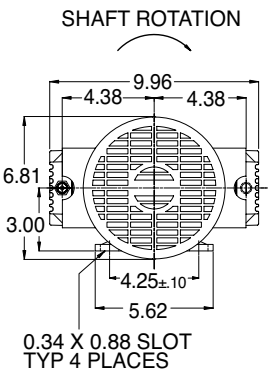
PRODUCT DIMENSIONS

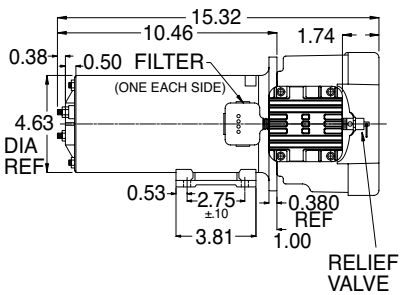
TA-3101-DC, TA-4101-DC
270024, 270025 & 270047





TA-5102
270058

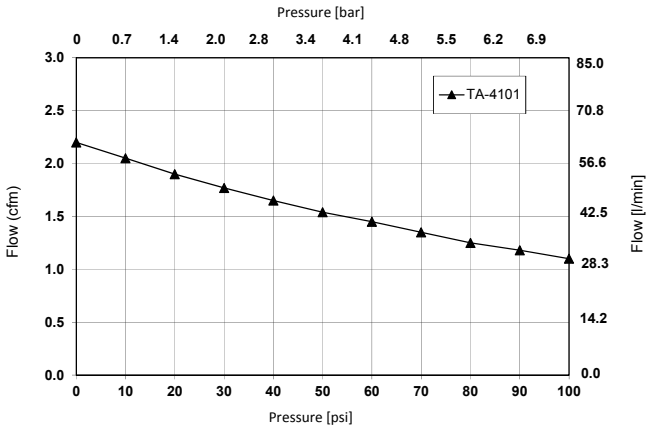




TA Series - AC

Flow	Up to 2.2 cfm (62.2 l/min)
Max. pressure	Up to 100 psig (6.9 bar)
Max. vacuum	N/A

TA-4101



TA Series Flow at Pressure Curve

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PERFORMANCE DATA

Model number	TA-4101
Manufacturing code	270015
Number of cylinders	1
Nominal voltage input	115/230/60/1
Max. open air flow	2.20 cfm (62.2 l/min)
Max. rated pressure	100 psi (6.9 bar)
Current at rated pressure	3.5/3.5A
Power at rated pressure	430W
Max. pressure restart	100 psi (6.9 bar)
Max. vacuum	N/A
Max. vacuum restart	N/A

ELECTRICAL DATA

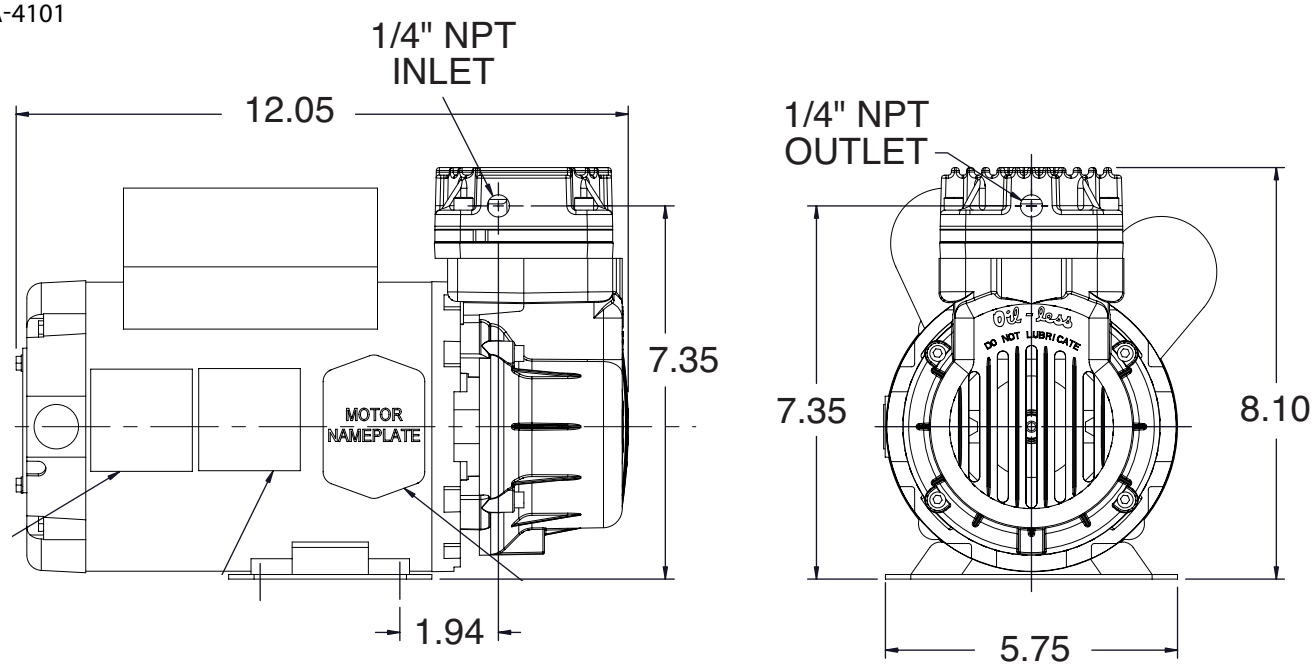
Motor type	Capacitor Start/Run
Motor locked rotor current	23.2A
Thermal Protector	Yes
Capacitor Value	243mfd/20mfd
Horsepower	1/3

GENERAL DATA

Operating ambient temperature	32°F to 104°F (0°C TO 40°C)
Net weight	24 lbs (10.9 kg)

PRODUCT DIMENSIONS

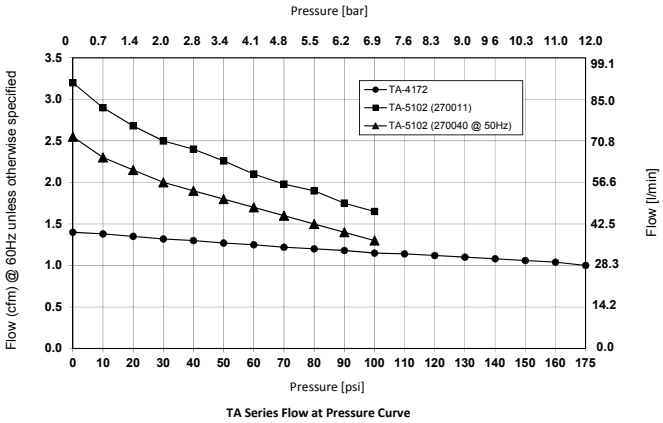
TA-4101



TA Series - AC

Flow	Up to 3.2 cfm (90.6 l/min)
Max. pressure	Up to 175 psig (12.0 bar)
Max. vacuum	**N/A**

TA-4172
TA-5102



TA Series Flow at Pressure Curve

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PERFORMANCE DATA

Model number	TA-4172	TA-5102	TA-5102
Manufacturing code	270072	270011	270040
Number of cylinders	2	2	2
Nominal voltage input	115/230/60/1	115/230/60/1	110/220-240/50/1
Max. open air flow	1.40 cfm (39.6 l/min)	3.20 cfm (90.6 l/min)	2.55 cfm (72.2 l/min)
Max. rated pressure	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	8.0/4.0A	7.2/3.6A	8.2/4.3A
Power at rated pressure	450W	760W	670W
Max. pressure restart	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Max. vacuum	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A

ELECTRICAL DATA

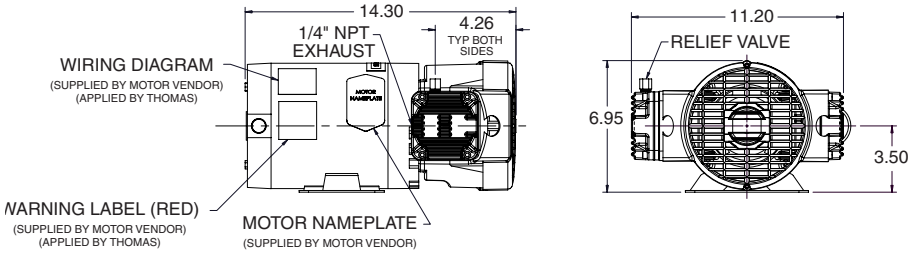
Motor type	Capacitor Start	Capacitor Start	Capacitor Start
Motor locked rotor current	34.8/18.0A	37.0/19.7A	39.0/19.5A
Thermal Protector	Yes	Yes	Yes
Capacitor Value	243 mfd	324 mfd	324 mfd
Horsepower	1/3	1/2	1/2

GENERAL DATA

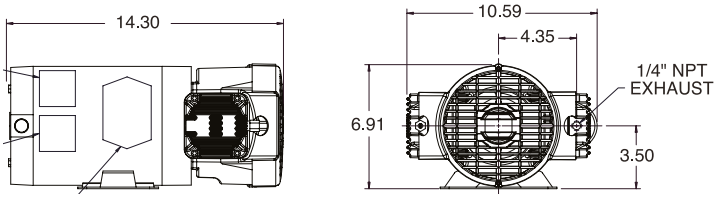
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	45 lbs (20.4 kg)	37 lbs (16.8 kg)	37 lbs (16.8 kg)

PRODUCT DIMENSIONS

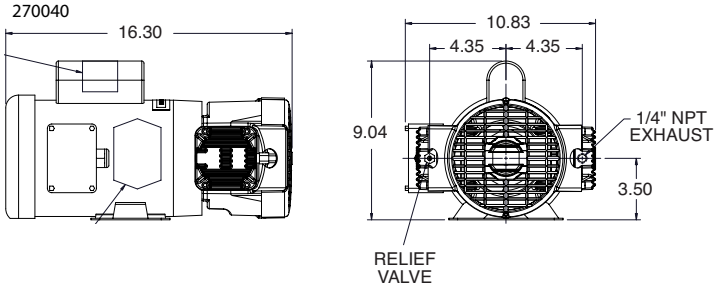
TA-4172
270072



TA-5102
270011



TA-5102
270040

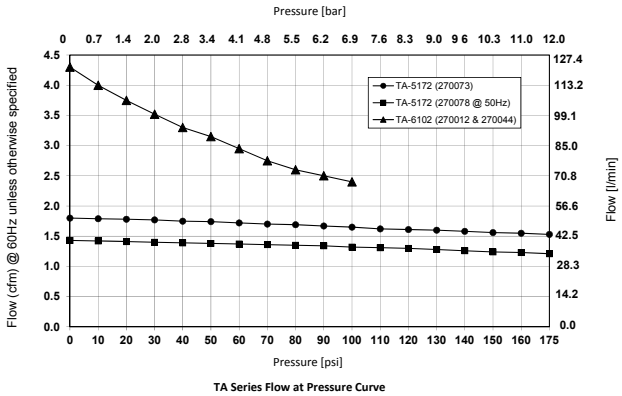


TA Series - AC

Flow	Up to 4.3 cfm (121.7 l/min)
Max. pressure	Up to 175 psig (12.0 bar)
Max. vacuum	**N/A**

TA-5172

TA-6102



TA Series Flow at Pressure Curve

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PERFORMANCE DATA

Model number	TA-5172	TA-5172	TA-6102	TA-6102
Manufacturing code	270073	270078	270012	270044
Number of cylinders	2	2	2	2
Nominal voltage input	115/230/60/1	110/220-240/50/1	115/230/60/1	190/380/50/3 208-230/460/3
Max. open air flow	1.80 cfm (50.9 l/min)	1.43 cfm (40.4 l/min)	4.30 cfm (121.7 l/min)	4.30 cfm (121.7 l/min)
Max. rated pressure	175 psi (12.0 bar)	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Current at rated pressure	7.3/3.6A	8.2/4.3A	10.6/5.3A	2.8/1.4A
Power at rated pressure	760W	670W	825W	800W
Max. pressure restart	175 psi (12.0 bar)	175 psi (12.0 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Max. vacuum	N/A	N/A	N/A	N/A
Max. vacuum restart	N/A	N/A	N/A	N/A

ELECTRICAL DATA

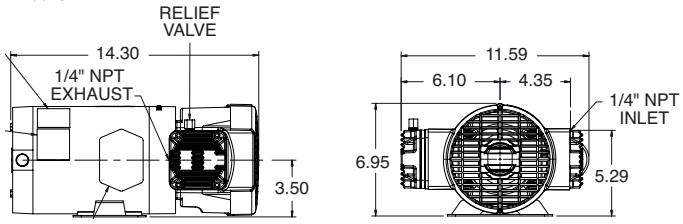
Motor type	Capacitor Start	Capacitor Start	Capacitor Start	Polyphase
Motor locked rotor current	34.8/18.0A	39.0/19.5A	60.0/30.0A	17.0/8.5A
Thermal Protector	Yes	Yes	Yes	No
Capacitor Value	324 mfd	324 mfd	378 mfd	N/A
Horsepower	1/2	1/2	3/4	3/4

GENERAL DATA

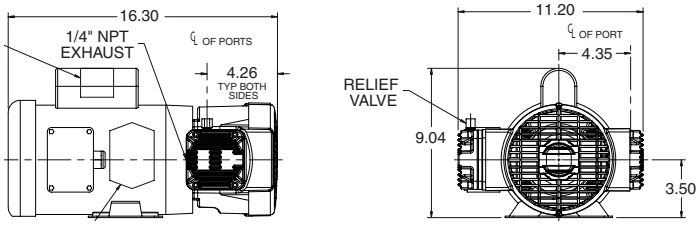
Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	51 lbs (23.1 kg)	51 lbs (23.1 kg)	45 lbs (20.4 kg)	45 lbs (20.4 kg)

PRODUCT DIMENSIONS

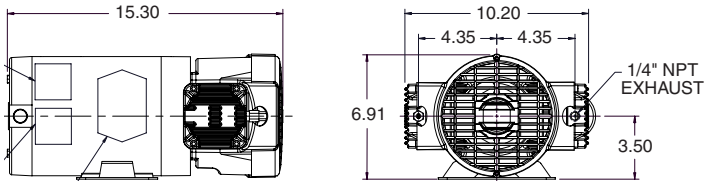
TA-5172
270073



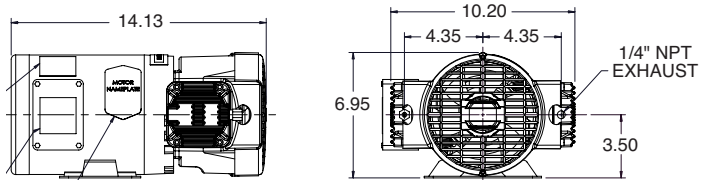
TA-5172
270078



TA-6102
270012



TA-6102
270044

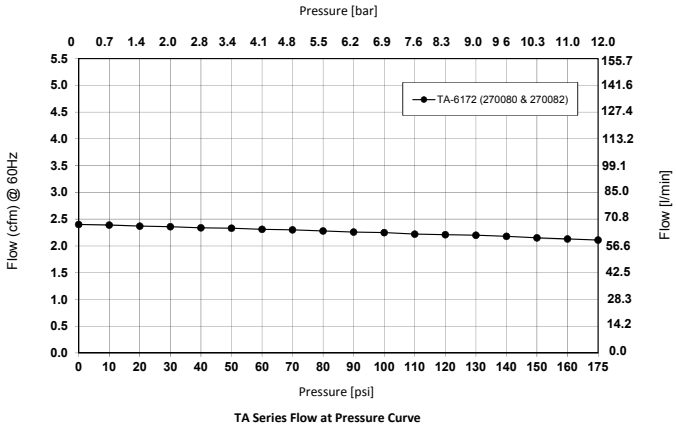


TA Series - AC

Flow	Up to 5.4 cfm (152.9 l/min)
Max. pressure	Up to 175 psig (12.0 bar)
Max. vacuum	N/A

Oil-less

TA-6172
TA-7102



TA Series Flow at Pressure Curve

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PERFORMANCE DATA

Model number	TA-6172	TA-6172
Manufacturing code	270080	270082
Number of cylinders	2	2
Nominal voltage input	115/230/60/1	190/380/50/3 208-230/460/60/3
Max. open air flow	2.40 cfm (67.9 l/min)	2.40 cfm (67.9 l/min)
Max. rated pressure	175 psi (12.0 bar)	175 psi (12.0 bar)
Current at rated pressure	10.6/5.3A	2.8/1.4A
Power at rated pressure	825W	800W
Max. pressure restart	175 psi (12.0 bar)	175 psi (12.0 bar)
Max. vacuum	N/A	N/A
Max. vacuum restart	N/A	N/A

ELECTRICAL DATA

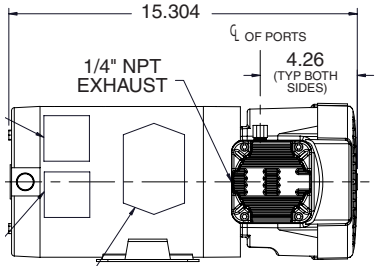
Motor type	Capacitor Start	Polyphase
Motor locked rotor current	60.0/30.0A	17.0/8.5A
Thermal Protector	Yes	No
Capacitor Value	378 mfd	N/A
Horsepower	3/4	3/4

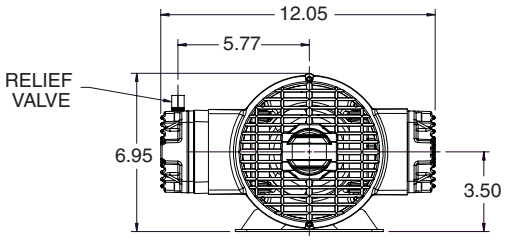
GENERAL DATA

Operating ambient temperature	32°F to 104°F (0°C TO 40°C)	32°F to 104°F (0°C TO 40°C)
Net weight	56 lbs (25.4 kg)	56 lbs (25.4 kg)

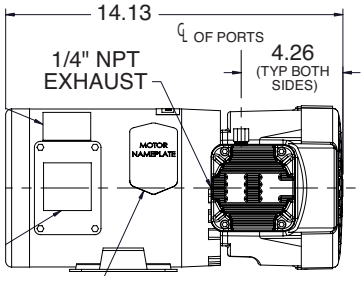
PRODUCT DIMENSIONS

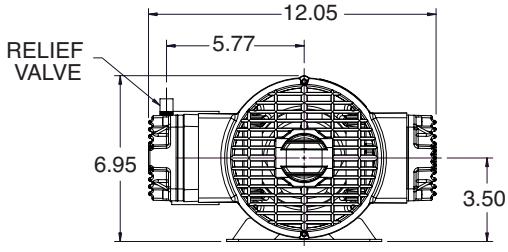
TA-6172
270080





TA-6172
270082





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