



**12 AN FEMALE VACUUM REGULATOR INSTRUCTIONS
STR.04.12.000**

THEORY

Locating the vacuum regulator outside of the crankcase area and placing it directly onto the vacuum pump is the ideal position. The regulator creates a controlled leak to limit the amount of crankcase vacuum. When such a leak is placed inside the crankcase area it promotes oil to be scavenged from the engine. The pump-mounted regulator not only reduces this condition but also allows ambient air into the pump as opposed to hotter crankcase air when the set point is reached allowing the pump to run cooler.

INSTALLATION

The Star Machine pump mounted regulator will work on any manufactures pump containing a -12 AN male thread. Install the regulator onto the vacuum fitting of the pump or on the baffle on the valve cover (which ever gives the best access. If this regulator is being used on the Star Machine EVP (electric vacuum pump) containing AN fittings, install the regulator onto the blue tube. The "banjo" containing the regulator swivels allowing it to float and be rotated 360 degrees for ideal positioning. **During installation, if obstructed, the regulator head can be held from turning while tightening the fitting.** Connect the hose (containing -12 female hose end) coming from the engine to the regulator. The regulator can also be installed onto the top fitting of a Star Machine tank containing A/N fittings or onto a -12 A/N male fitting at the engine.

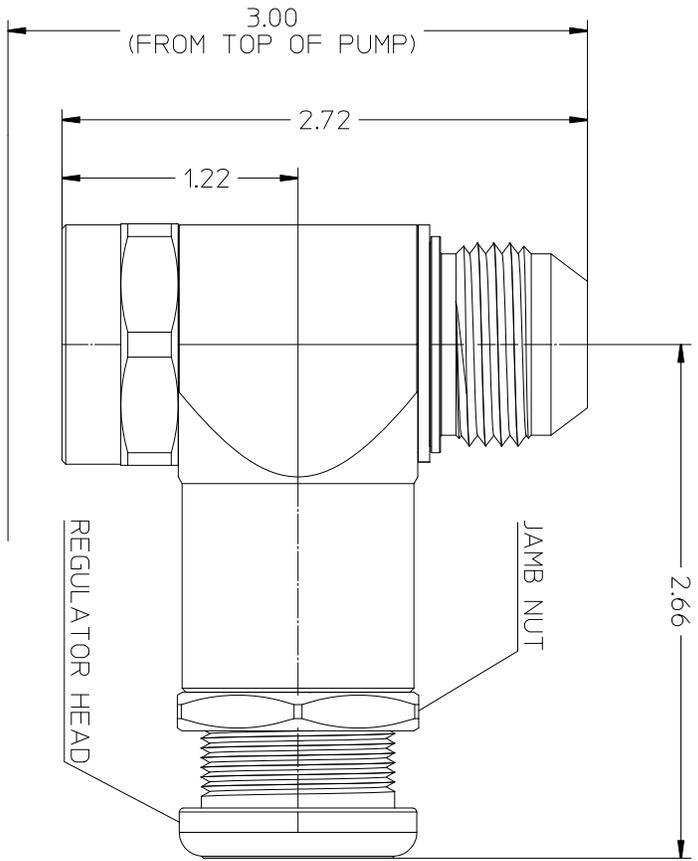
ADJUSTING THE REGULATOR SET POINT

The regulator is filtered, infinitely adjustable, and does not require disassembly to change the set point. To adjust the set point, loosen the 1/4" hex jam nut. Increase vacuum by turning the regulator (the portion containing the screen) in (clockwise). Decrease vacuum by turning the regulator out (counterclockwise). Retighten the jam nut.

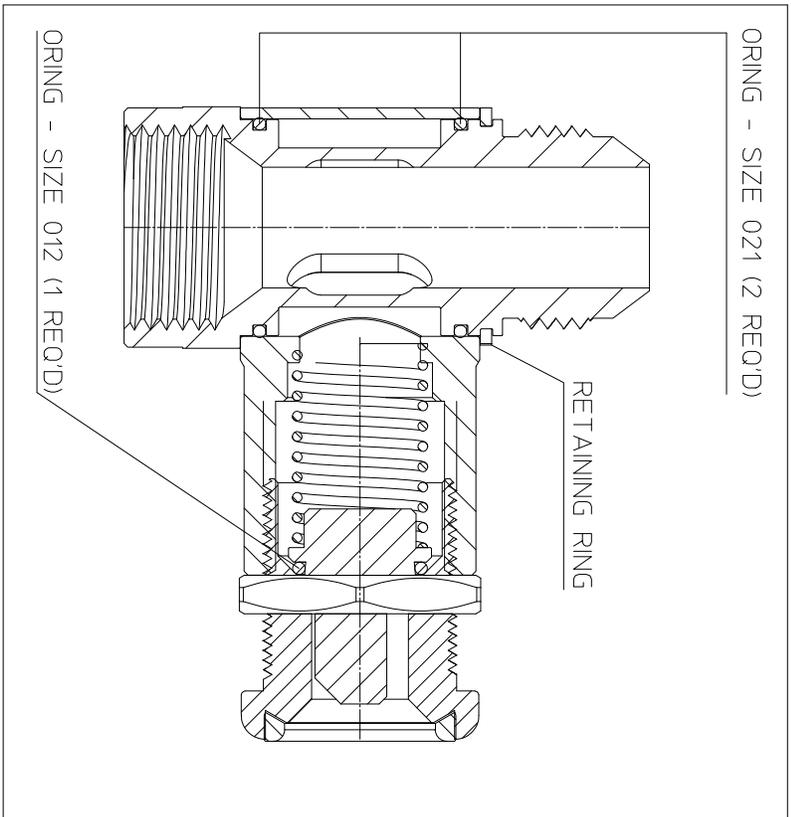
FOR MORE DETAILED INFORMATION ON ALL OUR PRODUCTS VISIT US AT STARVACUUMPUMPS.COM

STAR MACHINE
7810 OAK AVENUE
PARKVILLE, MARYLAND 21234

PHONE: 667.210.3874
FAX: 410.661.2467
EMAIL: STARVACUUMPUMPS@GMAIL.COM



CUTAWAY VIEW



REV.	2		
	1		
	0		
			DATE

STAR MACHINE
 7810 OAK AVENUE
 PARKVILLE, MD. 21234

DESCRIPTION: REGULATOR, FEMALE VACUUM

HEAT TREATING: _____

HARDNESS: _____

SURFACE PREPARATION: _____

FINISH: _____

DESIGNED BY: T HIGDON

SCALE: _____

SHEET: 1 OF 1

SIZE: B

DRAWING NO.: STR.04.12.000

TOLERANCES UNLESS SPECIFIED	LINEAR (INCHES)	ANGULAR	
<input type="checkbox"/> 0.05--10	± 0.005	0.05--20	± 0.005
<input type="checkbox"/> 0.10--20	± 0.010	21--40	± 0.010
<input type="checkbox"/> 0.20--40	± 0.020	41--60	± 0.015
<input type="checkbox"/> 0.40--60	± 0.040	61--100	± 0.020
<input type="checkbox"/> 0.60--100	± 0.050		

BREAK ALL EDGES UNLESS SPECIFIED

THIS DRAWING IS THE PROPERTY OF STAR MACHINE. IT IS TO BE KEPT IN CONFIDENCE AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN AUTHORIZATION OF STAR MACHINE.