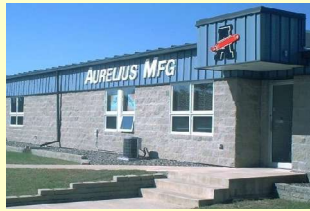




**AURELIUS MFG CO
INC**

220 S.W. 8TH ST. - P.O. BOX 508
BRAHAM, MN 55006
320-396-3343 FAX 320-396-3346

SOLUTION PROFILE



Custom Welded Hydraulic Cylinders

- Bore – 1 to 6 inches
- Rod – 3/8 to 5 inches
 - hollows & specials
- Stroke – 0 to 20 feet
- Custom porting
 - NPT
 - S.A.E
 - O-ring
 - tube lines
 - specials
- Custom valving
 - Pads
 - Cavities

Contact Aurelius Mfg.

Phone: 320-396-3343
Fax: 320-396-3346
Email: info@aurelius-mfg.com

NITROGEN GAS CHARGED SHAFT TO 500 PSI.
ATTACH TAG WITH CHARGE PRESSURE AFTER CHARGING

ASSEMBLE W/LOCKTITE

WT: LBS.

ITEM	QTY.	PART NO.	DESCRIPTION
1	1		SHAFT WELDMENT
2	1		END GLAND
3	1		SEAL KIT
4	1		TUBE WELDMENT
5	1		PISTON
6	2		ACCUMULATOR PISTON 5/16-18UNC X 3/8 LG. SSS
7	1		GAS CHARGE VALVE
8	1		GUARD
TO	1		

VALUED SHOP
1" PL. DIM. ±.005
2" PL. DIM. ±.030
FINISH ±1/16
TOLER. ±.1"

AURELIUS MFG. CO. INC.
BRAHAM, MN.

DESIGN: JAH
DATE:
SCALE:
TITLE:

Requirement: Streamline the plumbing and assembly process for an application that used in-line accumulators to absorb shocks.

A nitrogen charged accumulator is built into the hollow rod of the cylinder and pre-charged to the customer specifications. Putting the accumulator directly inside the cylinder improves the response by eliminating the back pressure in any lines or fittings between the cylinder and accumulator. It also eliminates the costs involved with obtaining and installing those lines and fittings as well as the need to mount and protect the accumulator itself. This design improves performance and reduces overall costs while streamlining the final assembly.