



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
- Integrated sensors
 - linear transducers
 - proximity

Contact Aurelius Mfg. Co., Inc.

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

ASSEMBLY W/ LOCKTITE

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	1		ACCUMULATOR PISTON
7	2		5/16-18UNC X 3/8 LB. SSS
8	1		GAS CHARGE VALVE
9	1		GURBOR
10	1		

WT: LBS.

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 BRAHAM, MN.

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

Solution: A nitrogen charged accumulator is built into the hollow rod of the cylinder and pre-charged to the customer's specification. 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.