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Pencor Instruments Inc., 8326 Interchance Drive, Houston, Texas 77054

DUCKET SECTION

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FAX

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3

To:

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CC:

From:

Michael Shammar

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REMARKS:

Urgent

For your review

Reply ASAP

Please comment



Group of Companies

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July 22, 1998

Paul S. O'Neal
Product Manager Acetylene/Specials
Taylor-Wharton Coyne

Dear Mr. O'Neal,

In **reference** to DOT certification of our high-pressure cylinders, we would like to **use** the following rupture disk assembly. The assembly consists of a three-way valve (**two** pressure connections), **safety** head and a rupture disk, all **manufactured** by High Pressure Equipment (1-800-289-7447). A detailed description of these components **is** included with this **fax** message.

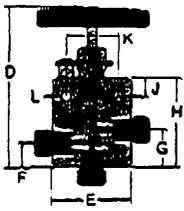
The three-way valve is used **instead** of the angle valve in the previous design. One of the **pressure** connections (bottom connection) on the three-way valve is connected to the cylinder and the other is used for safety head. The **rupture** disk fits inside the **safety** head whose burst pressure is about 35,000 psi at **72°F**. Please review this proposal and let us know **if you** have any questions.

Thank you,

A. Rama Rao

Rama Alapati.
Engineering Supervisor

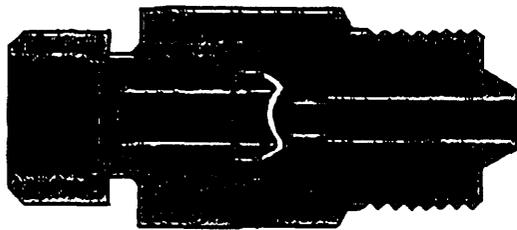
Cc: Michael **Shammai**



Three Way Valves / Two Pressure Connections

Tubing	psi	Connection	Orifice	D	E	F	G	H	J	K	L	Thickness
1/4" O.D.	60,000	HF4	1/16"	5 1/16"	2"	3/8"	1"	2 7/16"	1/2"	1 1/8"	7/16"	1"
3/16" O.D.	80,000	HF9	1/16"	6 1/16"	2 1/8"	1 1/16"	1 1/8"	2 3/16"	1/2"	1 3/8"	7/32"	1 1/2"

Safety Heads



A choice of three **safety** head designs is available, male inlet, female inlet (straight), and tee type. The **male** inlet design can be **inserted** directly into the **tubing** connections of **valves** and various **fittings** such as tees and **crosses**, or located in pressure vessels.

Outlet connections on **all** sizes are 3/4" pipe (NPT). This outlet may be connected to a suitable discharge line to vent **pressure** to a safe location in the event of bursting of the rupture **disc**. Torque required for **sealing rupture discs** will range from **40 to 90 foot pounds**, depending upon pressure and media being used.

Material of bodies and **hold down nuts** is high tensile **316 stainless steel**. Standard tubing glands and collars are provided unless **otherwise specified**.

Note: Rupture discs are not included and must be ordered as a separate item.

Male Inlet Safety Heads

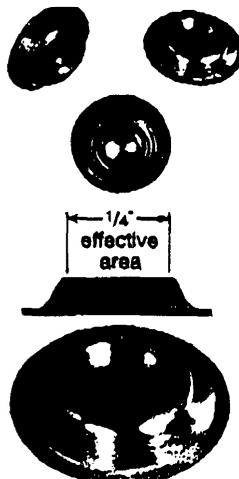


Pressure Rating psi	Inlet Connection	Length	Hex Size
60,000	1/4" HIGH PRESSURE	1 7/8"	1 1/2"
30,000	1" HIGH PRESSURE	3 1/4"	1 1/2"

Rupture Discs

1/4" Angled Seat

Standard rupture discs are **available** from stock in **burst pressures** as listed in the chart to the right. These discs are 316 stainless steel and may be used with any of **the safety heads** shown. **Note** that these rupture discs are manufactured with a tolerance of plus 6% and minus 3% of **specified burst pressure**. Samples of each batch are then tested and the actual average burst pressure is stamped on the accompanying **metal tag**. Factors influencing rupture disc life include **corrosion**, **metal fatigue**, and cyclic **effect**. Periodic replacement is recommended to prevent premature **failure**. It is recommended that working pressure **does not** exceed **70%** of burst rating for **maximum life cycle** of the disc.



SPECIAL DISCS are available on special order for pressure ranges not shown above and in numerous materials and coatings. Consult **factory** for price and **delivery**.

Standard Burst Pressures (in psi at 72°F)

1,500	3,000	4,500	6,000	10,000	17,500	25,000
2,000	3,500	5,000	7,000	12,500	20,000	
2,500	4,000	5,500	8,500	15,000	22,500	

35,000