

Pressure Controls EXPRESS

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An informative newsletter for Tescom distributors & representatives.

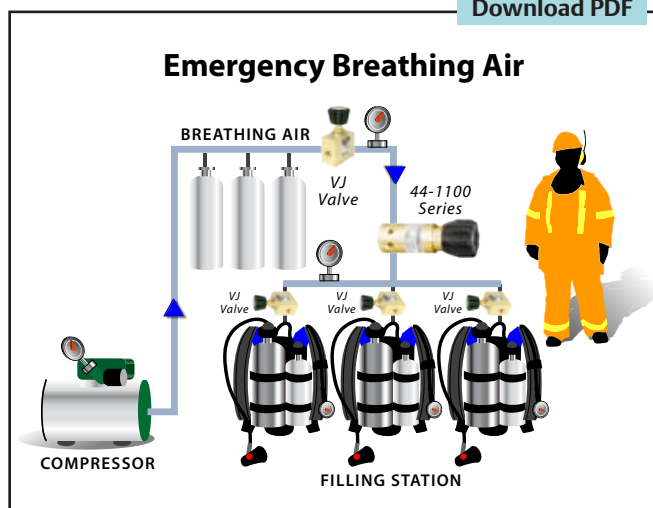
April 2006

Volume 5, No. 4

Applications now in color!

In recent months, Tescom has expanded on demonstrating our products in use in a series of new application drawings. By providing a visual on how our products fit certain applications, we will in turn provide you with a better communication/sales tool.

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Patents granted! USA

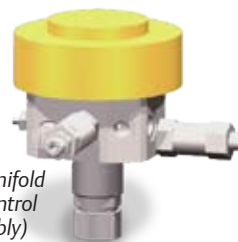
Patents were recently granted to several of our Engineers for their innovative product designs.

U.S. Patent 6,820,641 "Internally Piloted Dome Loaded Regulator" and U.S. Patent 6,929,028 "Gas Control Assembly" were granted to Todd Larsen.

The CP3200 Series Piloted regulator incorporates both the spring loaded pilot regulator and the high flow dome loaded regulator in one regulator body. The unique internal porting of the regulators removes the



CP32 Series
Piloted
Regulator



Tank Manifold
(Gas Control
Assembly)

external plumbing between the pilot and dome loaded regulators. The customer only needs to make a single inlet and one outlet connection to the regulator.



Todd Larsen, Project Engineer
Industrial Controls

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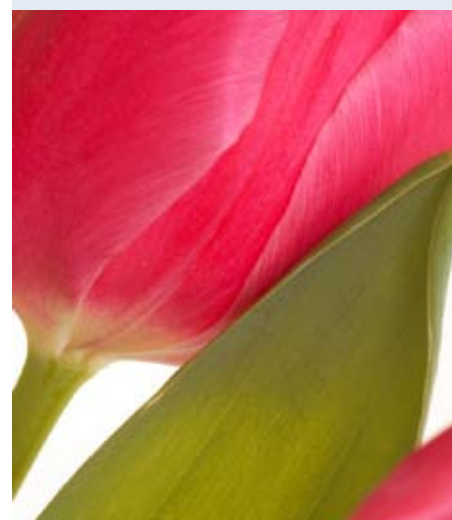
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QUOTE OF THE MONTH

"Flowers always make people better, happier and more helpful; they are sunshine, food and medicine to the soul."

— LUTHER BURBANK



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Patents, continued

The TV-001 tank manifold (Gas Control Assembly) is used for hydrogen storage tanks for automotive fuel cell vehicles. The manifold incorporates a solenoid valve rated for 700 Bar (10,000 PSIG) hydrogen service. It also contains an excess flow valve, thermal relief valve, and manual shut-off valve. Several units are currently being used on prototype vehicles in Germany.

U.S. Patent 6,997,440 "Packless Valve Apparatus" was granted to Brian Tutt and Daryll Patterson.

The patent protects a method of closing a packless metal diaphragm valve that allows a higher C_v than typical for a given diaphragm size. The basic concept is that the button that pushes the diaphragm closed has a special profile that allows the stress point in the diaphragm to move during the movement of the diaphragm from opened to closed. This reduces the stress in the diaphragm by reducing the distance the center point of the diaphragm has to travel by approximately 30% versus traditional button shapes.

Congratulations to the Tescom Engineering team!



14 Series
Packless Valve



Brian Tutt, Project Engineer &
Tom Logan, Engineering Manager
High Purity Controls



Daryll Patterson,
Senior Project Engineer
Industrial Controls

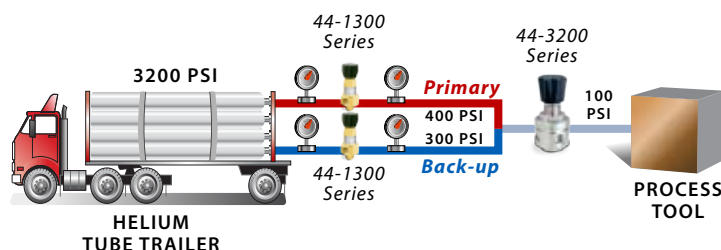
Applications, continued

We will continue this effort as we ask our distributors to continue in submitting applications.

Stay posted in the coming months as we supply more application diagrams.

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High Flow - Backup Pressure Supply



Literature

Industrial Controls

Valves Brochure -
Form No. 1970
Revised - brochure
Scrap old stock.



26-1000 Series - Form No. 538
Revised - catalog page
Use up old stock.

26-1200 Series - Form No. 540
Revised - catalog page
Use up old stock.

44-5200 Series - Form No. 1866
Revised - catalog page
Use up old stock.

54-2100 Series - Form No. 1635
Revised - catalog page
Use up old stock.

Please order through our 'Distributor's Only' section of our [web site](#) or contact Robyn Seitzer at robyn.seitzer@emersonprocess.com.

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"The best inheritance a parent can give his children is a few minutes of his time each day."

— O.A. BATTISTA

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