

# Staked-disk valves used on Goodwyn platform

A UNIQUE stacked-disk, multi-path flow design, is an important feature of the CCI DRAG valves selected for use on the North West Shelf Gas Project's Goodwyn "A" platform.

Chosen for their significant severe-service benefits, the valves were invented and supplied by US company Control Components, Inc. (CCI) through its local agent Halley & Mellowes Pty Ltd.

## Innovative

According to Wally Holding, Halley & Mellowes' Western Australian sales manager, the valve's innovative design provides superior flow control and enables them to exceed the most stringent noise-abatement requirements without requiring the use of additional, expensive baffling and orifice technology.

Significant benefits in eliminating cavitation, erosion, and vibration are derived directly from this stacked-disk design as well.

The valves specified were both stainless and low-carbon alloy steel. Most were manufactured using the Hot Isostatic Pressure (HIP) process, which is a metallurgical technology said to provide de strength benefits of machined forged steel, as well as some of the configuration and close-tolerance benefits that would be inherent if the casting process was used.

## DRAG® technology

The CCI valves chosen for the Goodwyn "A" platform use DRAG technology to control noise, without the use of diffusers or downstream pressure-breaking orifices, and to keep equipment weight down to a minimum.

The DRAG disk stack trim controls damaging fluid velocities by forcing process fluid to follow a tortuous path of

right angle turns through the trim and is unique in that up to 24 discrete pressure reduction stages can be provided on a single disk.

CCI also provided a series of specialized atmospheric blowdown in-body resistors

for the Goodwyn "A" platform featuring the DRAG disk stack.

An atmospheric resistor is attached to an on/off valve so the vending process does not subject the worker, or those in the surrounding area, to high noise levels.



**Velocity**

Basically the atmospheric resistor controls the velocity of the gas in such a way as to reduce the noise generated by the moving gas.

Aerodynamic noise is produced when there is a rapid expansion of the gas from the inlet to the outlet to allow the gas to expand gradually, greatly reducing the noise normally created by expanding gas.

The Control Components Inc. Assisted choke valve and pipeline blowdown choke valve supplied for the Goodwyn "A" platform.



**CCI DRAG® CONTROL VALVES**

Top: Assist gas choke valve

Bottom Left: Fuel gas start-up valve

Bottom Right: Compressor/header manual blowdown in-body resistor



*We Solve Control Valve Problems*

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