



Compressor Flexibility

For Storage Operations

Whether you're adding capacity, replacing existing equipment or building new facilities, Dresser-Rand has a HOS compressor cylinder specifically designed to provide the flexibility you need for both injection and withdrawal services.

Advanced regulation capability means increased operational flexibility, better utilization of driver power and reduced maintenance costs.

Improved Flexibility for Storage Operations

The D-R HOS storage cylinder provides a higher pressure rating with more flexibility than other compressor cylinders on the market. It permits you to maximize gas injection and withdrawal rates over a wide range of conditions by providing unloading options not available on conventional cylinders.

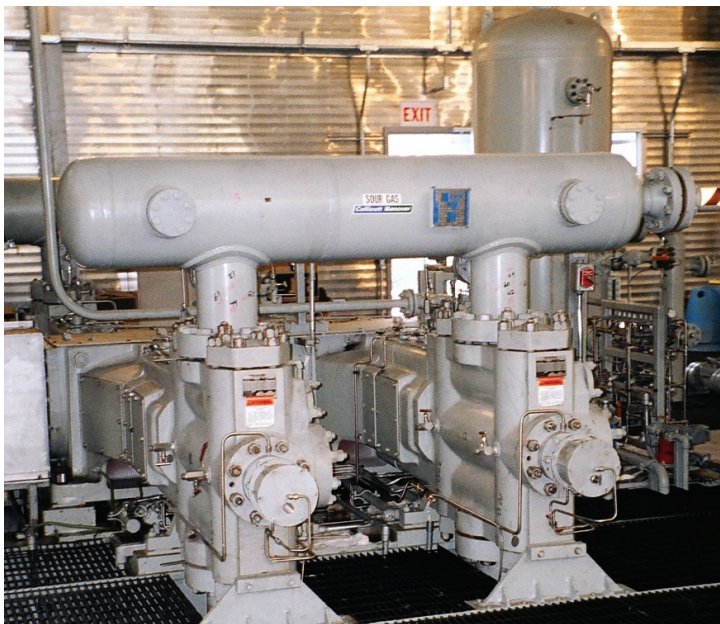
This innovative D-R cylinder design includes two versatile unloader ports – one located on each end. Each can be used as either an end unloader or as an automatic fixed volume clearance pocket (FVCP). Additionally, an FVCP can be supplied in the cylinder outer head. All regulation devices may be used while the compressor is in service.

The cylinder design provides an access hole to the inlet gas passage just above each unloader port. When used as a port unloader, this hole is opened and the gas passes from the bore through the port unloader back to the inlet passage. The large port area reduces the power losses and heat buildup experienced when using other types of unloaders. The unloader device is independent of the valves, so you can optimize the valve flow area, making your fully loaded operating condition as efficient as possible. When used as an FVCP, the access hole is closed and the gas passes from the bore into the FVCP.

Designed Specifically for Storage Operations

Available in three bore sizes – 7" (177.8 mm), 7.5" (190.5 mm), and 8" (203.2 mm) – the cylinder body is constructed of high-strength nodular iron, is gas-cooled and has one valve per corner. The piston rod diameter is 2.5" (63.5 mm) and stroke is 6" (152.4 mm) or 7" (177.8 mm) with 1200 and 1000 rpm capabilities, respectively. The standard pressure packing case is water-cooled.

Additional capacity control is available because the outboard head can be equipped with a pneumatically actuated FVCP.



For more information on **Compressor Flexibility**, contact: Dresser-Rand
 1354 South Sheridan Road
 Tulsa, Oklahoma 74112-5416
 Telephone 918-254-4099
 Fax 918-252-9055

For a complete listing of products and services, visit us on the Internet at www.dresser-rand.com or contact one of the following Dresser-Rand locations:

Dresser-Rand Corporate Headquarters

West8 Tower Suite 1000
 10205 Westheimer Road
 Houston, TX 77042 USA
 Tel: +1 713-354-6100
 Fax: +1 713-354-6110
 email: info@dresser-rand.com

Regional Headquarters

The Americas

Dresser-Rand
 West8 Tower Suite 1000
 10205 Westheimer Road
 Houston, TX 77042 USA
 Tel: +1 713-354-6100
 Fax: +1 713-354-6110

European Served Areas

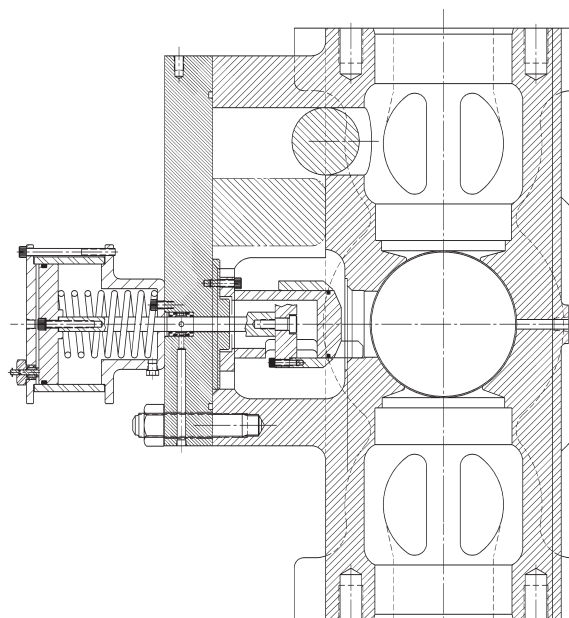
(Europe, Eurasia, Middle East, Africa)
 Dresser-Rand S.A.
 31 Boulevard Winston Churchill
 Cedex 7013
 Le Havre 76080 France
 Tel: 33-2-35-25-5225
 Fax: 33-2-35-25-5366 / 5367

Asia-Pacific

Dresser-Rand Asia Pacific Sdn Bhd
 Unit 8-1, 8th Floor
 Bangunan Malaysian Re
 17 Lorong Dungun, Damansara Heights
 50490 Kuala Lumpur, Malaysia
 Tel: 603-2093-6633
 Fax: 603-2093-2622

Patented, High-Efficiency Dresser-Rand Valves

Dresser-Rand high-performance PF valves are non-interchangeable and non-reversible, with patented, scalloped valve plates made-up of proprietary Hi-Temp™ material. Hi-Temp is Dresser-Rand's proprietary blend of PEEK® (polyetherether-ketone) that provides long life in both lubricated and non-lubricated operations. Its durability reduces the risk of failures and its physical and thermal properties deliver improved dependability under harsh service conditions, while maintaining resistance to dirt and corrosion.



Cross-section of a side-mounted end unloader.

Storage Cylinder Specifications

Sizes7" (177.8 mm); 7.5" (190.5 mm); 8" (203.2 mm)
MAWP (max. allowable working pressure) . . .	2,425 psig (167 bar)
MAORL (max. allowable operating rod load) . . .	60,000 lbs (27,216 kg)
Stroke6" (152.4 mm); 7" (177.8 mm)
Rod diameter	2.5" (63.5 mm)
Max. RPM.	1,200
Valves	Dresser-Rand high-performance PF valves
Configuration	One valve per corner, with two optional side-mounted port unloaders or FVCPs
Cylinder	Cast NI, non-jacketed
Piston	Solid CI two-piece
Piston rod	AISI 4142, induction-hardened
Head	Pneumatic FVCP (optional)
Packing	Internally water-cooled with glass-filled TFE rings; design pressure = 2,500 psig (172 bar)

For more information, contact your Dresser-Rand Gas Field Compressor representative today.

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