

CUSTOMIZABLE, PRECISION-MADE HEAVY DUTY HYDRAULIC 3000* psi NFPA CYLINDER LINE

Heavy Duty Service	
Nominal Pressure Rating	3000* PSI
Temperature Rating	-30°F to 200°F (-34°C to 93°C)
Max Speed Rating	36 inch/sec (0.91 m/sec)
Bore Diameters	1.50" to 20.00"
Piston Rod Diameters	0.625" to 10.00"
Square Head Design	
Mounting Styles	23 standard mounts
Rod Ends	6 Styles. Custom ends available
Lock Nut Piston	Reliable and serviceable
Cushions	Proven design, optional at either end or both ends of stroke

Accessible Design Support:

Royal provides quality and easy to contact customer service. One phone number and email for all your cylinder application questions. 604-527-1120 or sales@royalcylinders.com

*Pressure derating may apply - see page data for desired mounting style.

PISTON ROD

The piston rod is made from hard chrome plated C1045/C1050 carbon steel with a typical minimum yield strength of 85,000 psi. Material strengths may vary depending on rod diameter.

Other standard material options are Induction Hardened Chrome Polished (IHCP), Chrome plated 17-4PH Stainless or Nitrotec treated piston rods. Nitrotec material is an alternative to chrome plated and provides a hardened surface (up to 71 Rc) with very good corrosion resistance.

If you require a rod material or size that is not included in this catalogue please contact the factory.

BARREL

Our cylinder barrel is very heavy-walled, providing a very robust and rigid cylinder assembly. The inside surface is micro-honed for low friction and long reliable seal life.

HYTHANE® SEALS

Hythane® piston seals are standard on the Royal H-Series. The Hythane® rod seal is a high performance, high temperature seal compound having ultra low friction and long seal life. The Hythane/Hyslip rod wiper, with internal ribs for extra stability and prevention of pressure trapping, cleans the rod on the return stroke. The static o-rings are Buna-N with Viton as an option for higher temperatures.

ROTOCAST BRONZE GLAND BUSHING

The gland bushing is manufactured from Rotocast bronze for low friction and long bearing life. Optional gland bushings with wear rings may be available, please contact our factory.

SAE PORTS

SAE O-Ring Boss (ORB) ports are the standard ports on the H-Series cylinders. SAE CODE 61 Flange ports and NPTF are among the other standard options. For NPTF ports, WCI recommends an SAE to NPTF Female adapter. Custom ports are also available.

COLD FINISHED HEADS

Heads are precision machined from high quality cold finished steel for perfect alignment of barrel and moving parts.

PISTON

The ductile iron piston is a one-piece design, incorporating a replaceable wear ring to prevent metal to metal contact and increase the life of the cylinder.

CUSHIONING

The standard needle valve position is at position #4 (P4). The Ball check position is at P2. The Ball checks are designed to eliminate the need for a spring.

PISTON STOP

Depending on stop length, internal or external piston stops are available to reduce side load stress on the piston rod, gland bushing and piston for all cylinder sizes.

END-OF-STROKE POSITION SENSORS

WCI offers Proximity sensors to signal when the piston is at the end of stroke. Topworx is our standard however we can manufacture our cylinders to suit the proximity you would like to supply. Please contact our factory for details.

CUSTOM CYLINDERS

If our standard product does not meet your specifications, Westcoast Cylinders has a long history of manufacturing custom cylinders for many applications. Please contact our factory with your requirements.

SPARE PARTS

Genuine Royal seal kits include all seal components, and wear rings. Specify genuine Royal replacement parts to ensure you will receive all feature benefits.

* *Hythane®* is a registered trademark of Hallite Seals International Ltd.

Westcoast Cylinders Inc.:

The Company has been manufacturing high quality, reliable ROYAL cylinders for over 50 years. Production started with a single cylinder design and expanded to a full range of multi-use, hydraulic, pneumatic cylinders and accessories.

Quality:

WCI is a leader in the design and manufacture of custom heavy duty cylinders. The materials, machinery and tools used to produce our products are continuously being updated. Our cylinders are built to the highest standards utilizing the latest technology and processes.

Delivery:

WCI maintains a large range of stock parts which gives us the flexibility to respond to your needs in emergency situations. Please contact the factory to expedite your special requirements.

