

PISTON SEALS



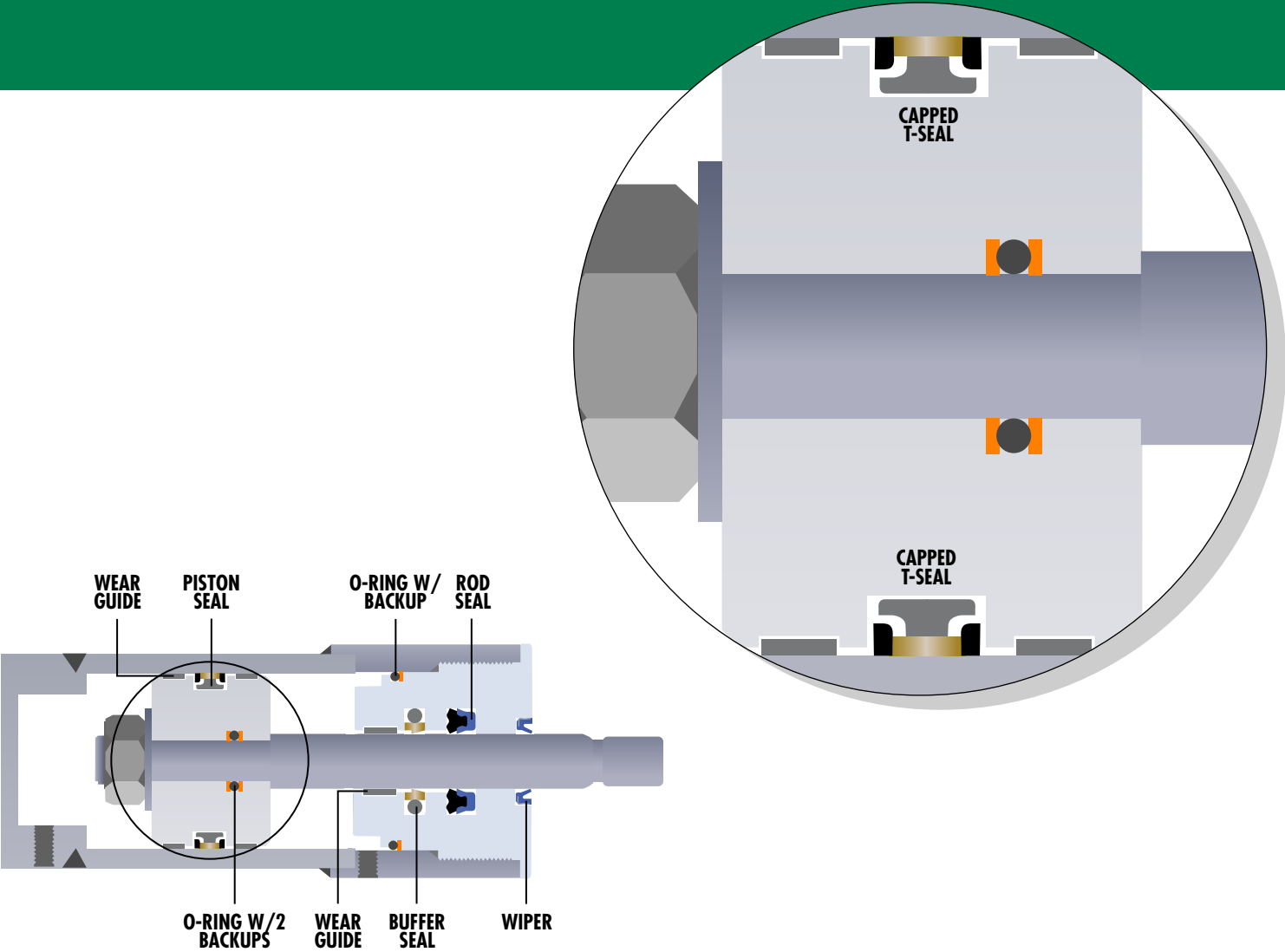
 **RT Dygert**
International

STANDARD & CUSTOM SEALS

RT/Dygart supplies seals and related custom designed parts to meet the demanding requirements of Original Equipment Manufacturers in the Fluid Power, Chemical Processing, Agricultural, Food & Beverage, Plumbing and other markets. Our manufacturing processes include injection, compression and transfer molding as well as machined plastics.

Our seal vendors include respected domestic and international companies with strong quality and engineering programs. Additionally, RT/Dygart provides extensive value added services such as JIT/Kanban programs, pre-production and MRO kitting, special marking and packaging options and much more.

Please refer to our compounds brochure for more specific material recommendations. For additional information, please contact our customer service department at 1.866.RTD.8883



PISTON SEALS

Typical cross sections. Others available upon request or visit web site at www.rtdygert.com

Loaded U-Cup



PRESSURE:
6,000 PSI
TEMPERATURE RANGE:
-50°F — +250°F
VELOCITY:
3.2 feet/sec

MATERIALS:
Urethane
HP Urethane
Hytral
Nitrile
FKM
EPDM

FEATURES:
Rectangular seal
Scraper lip

APPLICATIONS:
Mobile hydraulic
Agricultural
General Industrial
Low pressure sealing

Asymmetrical Unloaded U-Cup



PRESSURE:
5,000 PSI
TEMPERATURE RANGE:
-50°F — +250°F
VELOCITY:
0.7 feet/sec

MATERIALS:
Urethane
HP Urethane
Hytral
Nitrile
FKM
EPDM

FEATURES:
Improved seal stability
Improved wear resistance

APPLICATIONS:
Agricultural
General Industrial

PTFE



PRESSURE:
5,000 PSI
TEMPERATURE RANGE:
-65°F — +400°F
VELOCITY:
3.2 feet/sec

MATERIALS:
Glass filled PTFE
Moly PTFE
Carbon Graphite PTFE
Bronze PTFE

FEATURES:
Low friction
Long service life

APPLICATIONS:
Agricultural
Heavy Duty
Mobile Hydraulic
General Industrial

T-Seal



PRESSURE:
5,000 PSI
TEMPERATURE RANGE:
-65°F — +400°F
VELOCITY:
0.4 feet/sec

MATERIALS:
Nitrile
FKM
EPDM
HNBR
Backup: Nylon
Backup: PTFE
Backup: PEEK

FEATURES:
Square seal for stability
Low Pressure sealing
Anti Extrusion rings
Dynamic sealing surface

APPLICATIONS:
Retrofit standard industrial
O-Ring grooves
Limited axial length
Wide base available

O-ring Loaded Piston Seal



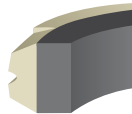
PRESSURE:
5,000 PSI
TEMPERATURE RANGE:
-50°F — +250°F
VELOCITY:
0.3 feet/sec

MATERIALS:
Urethane
HP Urethane
Hytral

FEATURES:
Square seal
Back beveled lip
Energized seal
Retrofit Mil-G-5514-F
O-Ring Grooves
Low Pressure seal ability

APPLICATIONS:
Agricultural
Heavy Duty
Mobile Hydraulic
Vacuum
High Pressure
Bi-directional sealing
Heavy duty hydraulic

Urethane Piston Seal



PRESSURE:
6,000 PSI
TEMPERATURE RANGE:
-65°F — +250°F
VELOCITY:
0.7 feet/sec

MATERIALS:
Urethane

FEATURES:
Bi-directional sealing
Grooves prevent blow-by
Energized seal

APPLICATIONS:
Earthmoving equipment
Forklift
Agricultural equipment
Stabilizer
Std. hydraulic cylinders
Cranes
Presses

Capped T-Seal



PRESSURE:
10,000 PSI
TEMPERATURE RANGE:
-65°F — +400°F
VELOCITY:
3.2 feet/sec

MATERIALS:
Nitrile
FKM
EPDM
HNBR
Backup: Nylon
Backup: Delrin
Cap: PTFE
Cap: filled PTFE

FEATURES:
Low Pressure sealing
Long life
Low friction
Anti Extrusion rings
Dynamic sealing surface

APPLICATIONS:
Mobile hydraulic
Heavy duty

Grooved Piston Seal



PRESSURE:
5,000 PSI
TEMPERATURE RANGE:
-65°F — +400°F
VELOCITY:
0.7 feet/sec

MATERIALS:
Bronze PTFE
Glass/Moly PTFE
Graphite PTFE
Carbon Graphite PTFE
Nitrile
FKM

FEATURES:
Bi-directional sealing
Grooves prevent blow-by
Energized seal

APPLICATIONS:
Piston Accumulators
Medium duty hydraulic cylinders
General Purpose
High Temperature
High Pressure
Low speed rotary

NOTE: Capabilities shown in this brochure are directly related to design tolerances. Please consult with RT Dygert for your specific application

**Extensive inventory
of high quality
products from a
vendor you can trust**

Buffer Seals

Machined Plastics

Engineered Elastomers

Custom Molded Plastics

Kits

O-rings

Perfluoroelastomer Parts

Piston Cups, Rings & Seals

Pneumatic Seals

Rod Seals / U-Cups

Rotary Shaft Seals

T & Capped T-Seals

Wear Rings

Wipers



Minneapolis Office
5250 West 73rd Street
Edina, MN 55439
Tel: (952) 835-1700
Fax: (952) 835-1701

sales@rtdygart.com
www.rtdygart.com

Chicago Office
6380 West Howard Street
Niles, IL 60714
Tel: (847) 675-1444
Fax: (847) 675-8889

(866) RTD-8883
(866-783-8883)

Shanghai Office
Room 203, Luneng
Building, 18 Taigu Road
Waigaoqiao Free Trade Zone
Shanghai, PRC 200131

Tel: (86) 21-5866-5551
Fax: (86) 21-5866-5552

LIMITED WARRANTY. RT/Dygart International, Inc. ("Seller") warrants that its products ("goods") will perform in accordance with their specifications; that the goods will be free from manufacturing defects for a period of twelve (12) months from the date of delivery of the goods to Buyer; and that the goods will be as specified by Buyer in the purchase order. Seller shall have the right to elect to either refund the purchase price for any defective goods or replace any defective goods, provided that the goods were used in the manner for which they were manufactured. Seller does not warrant that the goods are fit for any particular purpose. Seller shall have no obligation to refund the purchase price or replace goods that are rendered defective by a Buyer or a third party after they leave Seller's place of shipment.

LIMITED LIABILITY. SELLER'S LIABILITY FOR ITS GOODS IS LIMITED TO THE TERMS SET FORTH IN SELLER'S EXPRESS WARRANTY SET FORTH ABOVE. IN NO EVENT SHALL SELLER'S LIABILITY EXCEED THE TOTAL PURCHASE ORDER PRICE. SELLER IS NOT ASSUMING ANY LIABILITY FOR ANY INDIRECT, COLLATERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSSES OR DAMAGES SUFFERED BY BUYER, OR BY ANY END-USER OR OTHER THIRD PARTY, INCLUDING BUT NOT LIMITED TO, LOST PROFITS, LOSS OF BUSINESS REPUTATION AND/OR LOST BUSINESS OPPORTUNITY, FOR ANY POSSIBLE CAUSE OF ACTION OR CLAIM ARISING OUT OF OR RELATED TO THE GOODS SOLD TO BUYER, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.