

ROD SEALS



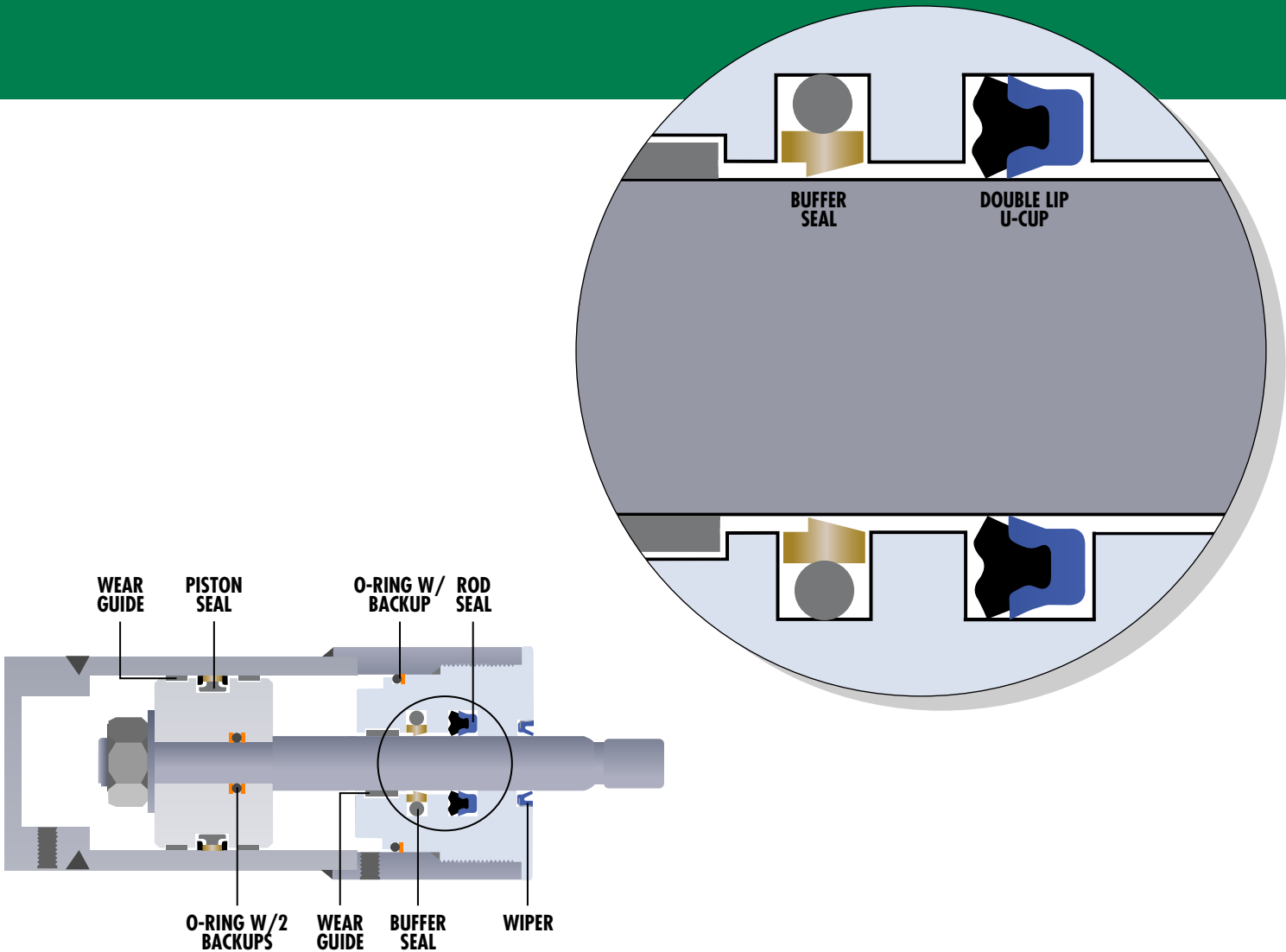
 **RT** **Dygart**
International

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



ROD SEALS

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

Asymmetrical Unloaded U-Cup



PRESSURE:
6,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

VELOCITY:
3.2 feet/sec

MATERIALS:
Urethane
Hytrel™

FEATURES:
Pressure energized seal
Back beveled lip
Bump heel
Film breaking

APPLICATIONS:
Mobile hydraulic
Agricultural
General industrial

Beveled Loaded U-Cup



PRESSURE:
6,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

VELOCITY:
3.2 feet/sec

MATERIALS:
Urethane
Hytrel™
Nitrile
Viton®

FEATURES:
Energized seal
Back beveled lip
Film breaking

APPLICATIONS:
Mobile hydraulic
Agricultural
General industrial
Medium duty cycle

Deep Loaded U-Cup



PRESSURE:
6,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

VELOCITY:
3.2 feet/sec

MATERIALS:
Urethane
Hytrel™
Nitrile
Viton®

FEATURES:
Energized seal
Improved extrusion
resistance
Improved stability

APPLICATIONS:
Mobile hydraulic
Agricultural
General industrial
High duty cycle

Double Lip U-Cup



PRESSURE:
6,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

VELOCITY:
3.2 feet/sec

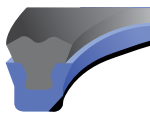
MATERIALS:
Urethane
Hytrel™
Nitrile*
Viton®*
HNBR*
Low-temp nitrile*
Carboxylate nitrile*

FEATURES:
Low compression set
Secondary lip
Extrusion resistant base
Low-temp sealing

APPLICATIONS:
Heavy duty
Mobile hydraulic
Telescopic cylinder
High duty cycle

*Lip material

Double Lip U-Cup with Anti-Extrusion Ring



PRESSURE:
10,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

VELOCITY:
3.2 feet/sec

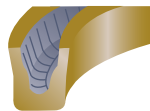
MATERIALS:
Urethane
Hytrel™
Nitrile*
Viton®*
HNBR*
Low-temp nitrile*
Carboxylate nitrile*

FEATURES:
Low compression set
Secondary lip
Anti extrusion ring
Low-temp sealing
Extrusion resistant base

APPLICATIONS:
Heavy duty
Mobile hydraulic
High pressure
High duty cycle
Pressure spikes
Large extrusion gaps

*Lip material

Spring Energized



PRESSURE:
10,000 PSI

TEMPERATURE RANGE:
-450°F — +550°F

VELOCITY:
3.2 feet/sec

MATERIALS:
UHMWPE
PTFE
PEEK
S/S spring

FEATURES:
Low compression set
Secondary lip
Low-temp sealing
Low friction
Widest P/T range
Custom design

APPLICATIONS:
Petro-chemical
Low friction
Extreme temperatures
Corrosive fluids
High duty cycle

Standard Buffer



PRESSURE:
6,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

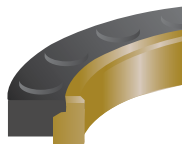
VELOCITY:
3.2 feet/sec

MATERIALS:
Filled PTFE
Nitrile

FEATURES:
Protects rod seal
from pressure spikes
Lower friction,
longer life
Vents back pressure

APPLICATIONS:
Any application requiring
secondary sealing to reduce
effects of pressure spikes
Medium duty cycle

Premium Buffer



PRESSURE:
10,000 PSI

TEMPERATURE RANGE:
-50°F — +250°F

VELOCITY:
3.2 feet/sec

MATERIALS:
Filled PTFE
Nitrile

FEATURES:
Protects rod seal
from pressure spikes
Lower friction,
longer life
Vents back pressure

APPLICATIONS:
Any application requiring
secondary sealing to reduce
effects of pressure spikes
High duty cycle
Large rod size



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NOTE: The design capabilities shown in this brochure are directly related to design tolerances. Please consult with RT Dygart 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



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