

**AUN 1****SIMRIT Symmetrical U-Cup**

The AUN 1 features a symmetric profile. This U-Cup has single-acting piston or rod seals and is mainly used as a replacement part requirement.



**Pressure (PSI):** 2900  
**Max. Temp (F°):** 230  
**Speed (ft/s):** 1.5

**AUN 100****SIMRIT Symmetrical U-Cup**

The AUN 100 features a symmetric profile and back set sealing edges. The U-Cup has single-acting piston or rod seals and is mainly used as a replacement part requirement.



**Pressure (PSI):** 4400  
**Max. Temp (F°):** 230  
**Speed (ft/s):** 1.5

**8001****MERKEL Symmetrical U-Cup**

The 8001 features a symmetric profile. This U-Cup has single-acting piston or rod seals and is mainly used as a replacement part requirement.



**Pressure (PSI):** 5800  
**Max. Temp (F°):** 230  
**Speed (ft/s):** 1.5

**N 1****SIMRIT Symmetrical U-Cup**

The N 1 features a symmetric profile. This U-Cup has single-acting piston or rod seals and is mainly used as a replacement part requirement.



**Pressure (PSI):** 1500  
**Max. Temp (F°):** 212  
**Speed (ft/s):** 1.5

**N 100****SIMRIT Symmetrical U-Cup**

The N 100 features a symmetric profile and back set sealing edges. The U-Cup has single-acting piston or rod seals and is mainly used as a replacement part requirement.



**Pressure (PSI):** 2400  
**Max. Temp (F°):** 212  
**Speed (ft/s):** 1.5

**UPH****NOK UPH Type Symmetrical Rod Seal**

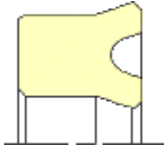
This packing can be used for both piston and rod seals, and has a large section which can be used for a wide range of operations. Wide variations of size are available.

**Pressure (PSI):** 4600  
**Max. Temp (F°):** 212  
**Speed (ft/s):** 3

**UPI****NOK UPI Type Symmetrical Noxlan Rod Seal**

This can be used for both piston and rod seals. It has a large section and can be used for a wide range of operations, with excellent wear resistance and sealing ability.

**Pressure (PSI):** 5000  
**Max. Temp (F°):** 212  
**Speed (ft/s):** 3



**USH**

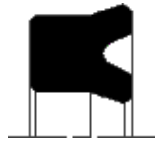
**NOK USH Type Symmetrical Rod Seal**

This can be used for both piston and rod seals, and has a small section that can be fitted into an integrated groove.

**Pressure (PSI):** 3000

**Max. Temp (F°):** 212

**Speed (ft/s):** 3



**USI**

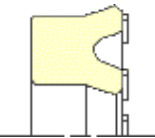
**NOK Symmetrical Noxlan Rod Seal with Relief**

Used for both piston and rod seals, this packing has a small section and can be fitted in an integrated groove. Improved design prevents damages caused by back pressure.

**Pressure (PSI):** 3000

**Max. Temp (F°):** 175

**Speed (ft/s):** 3



**SYM**

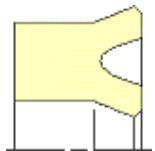
**DISOGRIN Symmetrical U-Cup style 005 / SYM**

SYMMETRICAL series U-cup, chamfered sealing edges for ID or OD sealing functions. Knife cut static and dynamic lips for maximum sealing force and fit. DISOGRIN 9250 Material with outstanding wear and tear resistance, ensuring maximum service life.

**Pressure (PSI):** 4000

**Max. Temp (F°):** 300

**Speed (ft/s):** 3.3



**LSU**

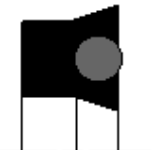
**DISOGRIN Symmetrical Loaded U-Cup**

LSU series with O-Ring energized lips assure a uniform, positive lip contact plus excellent low pressure sealing. Seal depth is equal to radial width. LSU series are used to interchange an existing hydraulic packing and/or O-Rings.

**Pressure (PSI):** 5000

**Max. Temp (F°):** 220

**Speed (ft/s):** 1.5



**LSU-B**

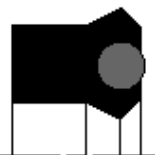
**DISOGRIN Deep Symmetrical Loaded U-Cup with Beveled Lip**

LSU-B series back beveled sealing lip provides greater film breaking and increased until loading at the sealing surface. Seal depth is generally 1.5 times the cross section of radial width to insure seal stability in most rugged applications. ROD SEAL use is preferred.

**Pressure (PSI):** 5000

**Max. Temp (F°):** 220

**Speed (ft/s):** 2.5



**LSU-Deep**

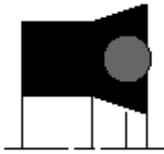
**DISOGRIN Deep Symmetrical Loaded U-Cup**

LSU-D's series depth is 1.5 times greater than radial width. Increased seal stability to withstand rugged, high shock, heavy duty applications. DEEP LSU can replace vee packing or other old fashioned seals. For minimum drag use STANDARD LSU or DEEP LSU Series.

**Pressure (PSI):** 5000

**Max. Temp (F°):** 220

**Speed (ft/s):** 1.5



**LSU-SQB**

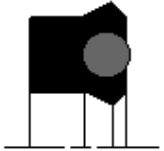
**DISOGRIN Symmetrical Loaded U-Cup with Beveled Lip**

LSU-SQB series - the square version of LSU-B - has the same overall dimensions of standard LSU, but slightly more 'squeeze'. Back bevel design gives greater film breaking ability and increases sealing surface unit load.

**Pressure (PSI):** 5000

**Max. Temp (F°):** 220

**Speed (ft/s):** 2.5



**SYM**

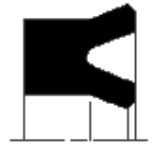
**DISOGRIN Symmetrical U-Cup**

SYM symmetrical U-cup is suited for heavy duty mobile and stationary applications. For piston or rod sealing use.

**Pressure (PSI):** 5000

**Max. Temp (F°):** 230

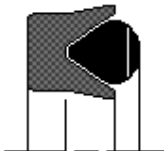
**Speed (ft/s):** 4.2



**G 10 / G11**

**MERKEL Automatic U-Ring**

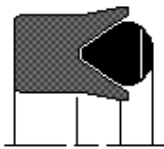
The G10/G11 design is an older design and should be replaced with a new design where possible. These Automatic U-Rings provide a space saving design with long slender lips. Their symmetrical design allows them to be utilized on both a piston or rod application. The teardrop energizer offer no pre-load to ensure that there are no pressure traps when used in tandem with other seals.



**G 10 / G11**

**MERKEL G10/G11 Automatic U-Ring ES**

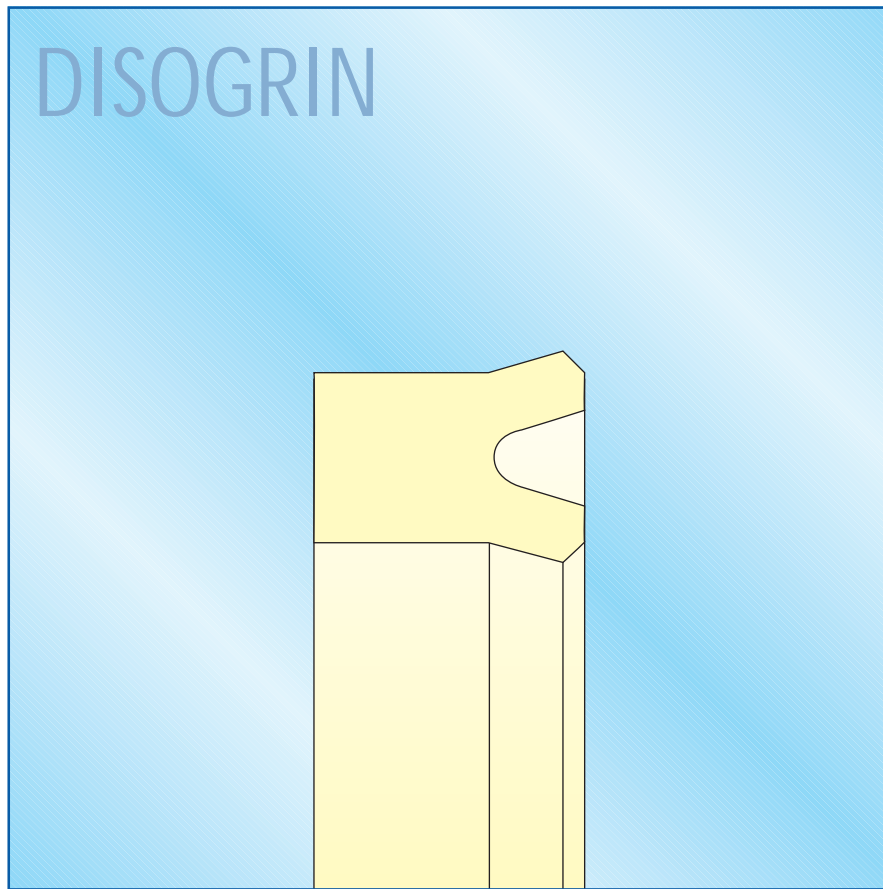
The G10/G11 design is an older design and should be replaced with a new design where possible. These Automatic U-Rings provide a space saving design with long slender lips. Their symmetrical design allows them to be utilized on both a piston or rod application. The teardrop energizer offer no pre-load to ensure that there are no pressure traps when used in tandem with other seals.



### Images Description

Image		Image	Description
	Bull Dozer		Manipulators
	Fork Lift		Buffer Seal
	Tractor		Valves
	Stabiliser		Shears
	Hydraulic Presses		Hydraulic Jacks
	Mobile Arms		Forging
	General Cylinder		Heavy Duty Construction
	Injection Molding		Heavy Duty Applications
	Mobile Lifts		Rolling Mills
	Steel Mill		Rotary Seal
	Compression Molding		Cranes
	Marine Applications		CNC Machines

# DISOGRIN Symmetrical U-cup Rod Seal Applications

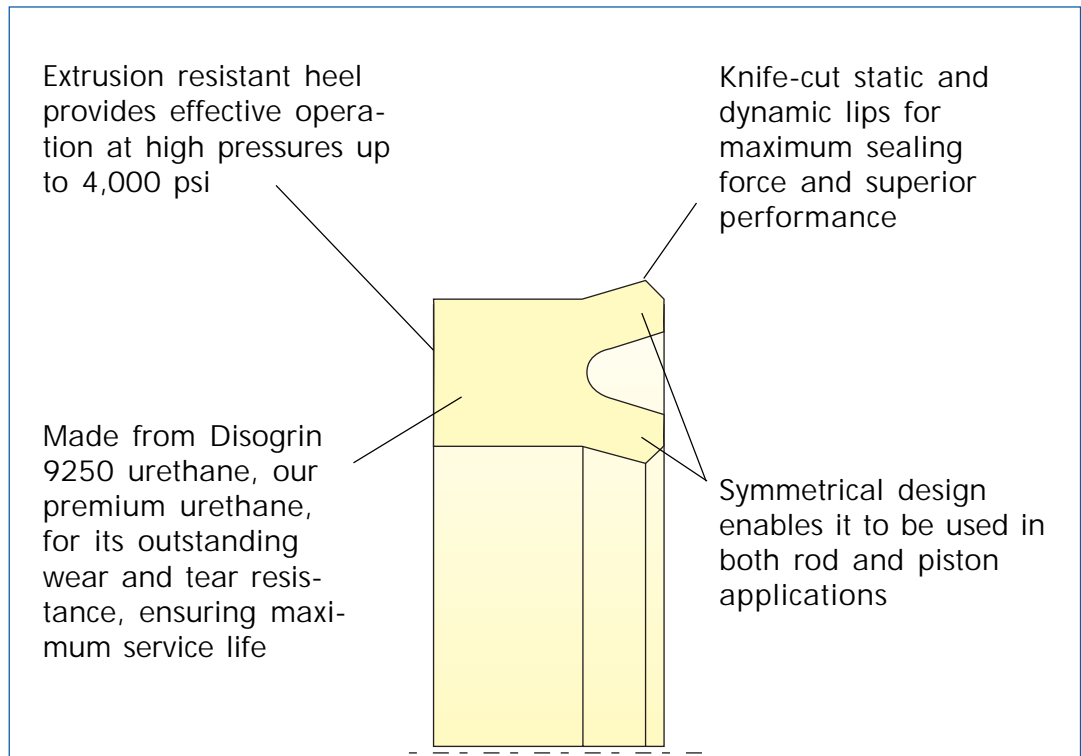


The Simrit Group  
Freudenberg-NOK



# DISOGRIN Symmetrical Rod Seal

## Features & Benefits



## Features & Benefits

- ◆ The Symmetrical U-cup provides excellent sealing performance and very long operating life in both rod and piston applications.
- ◆ Knife-cut lips on both the dynamic and static sides assures maximum sealing force to prevent leakage.
- ◆ The Symmetrical U-cup is made from DISOGRIN 9250, world renowned for its resistance to wear and tear and for its very low compression set. Its extrusion resistance is second to none. The result is superior sealing performance and longer operating life.
- ◆ The Symmetrical U-cup is resistant to pressure spikes and diesel effect. Capable of withstanding pressures up to 4,000 psi and 300°F (intermittent), the Symmetrical U-cup is a great for those tough applications with high pressures or temperatures where other seals fail.
- ◆ No adhesion effect on sliding surface, even after a long standstill.
- ◆ Superior performance over a wide range of temperatures and hydraulic fluids.

# DISOGRIN Symmetrical Rod Seal

## Specification Sheet



### Materials

#### Sealing Element

Material	Polyurethane
Designation	DISOGRIN D92S
Hardness	92 Shore A

The DISOGRIN Symmetrical Rod Seal is typically an injection molded part. However, for limited quantities, prototypes or testing, it is also available through our SimQuick program. Please contact us for more information.

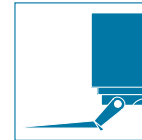
### Application Limits

Pressure	4,000 psi (27 MPa)
Speed	100 FPM (0.5 m/s)

Medium/Temperature	DISOGRIN D92S
Hydraulic Oil, HL, HLP	-40°F to +230°F* (-40°C to +110°C)
HFA, HFB Fluids	+41°F to +122°F (+5°C to +50°C)
HFC Fluid	-22°F to +104°F (-30°C to +40°C)
HFD Fluid	--
Water	+41°F to +104°F (+5°C to +40°C)
HETG (Rape Seed Oil)	-40°F to +230°F* (-40°C to +110°C)
HEES (Synth. Ester)	-22°F to +140°F (-30°C to +60°C)
HEPG (Glycol)	--
Mineral Oil	-40°F to +230°F* (-40°C to +110°C)

\*Capable of operating from -65°F to +300°F in these fluids. Please consult our engineering group for details.

### Examples of Applications



Tailgate Lifts



Cranes



Agriculture Equipment



Forklifts

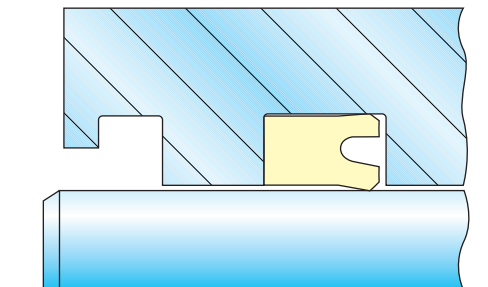


Std. Hydraulic Cylinders



Presses

### Installed Seal

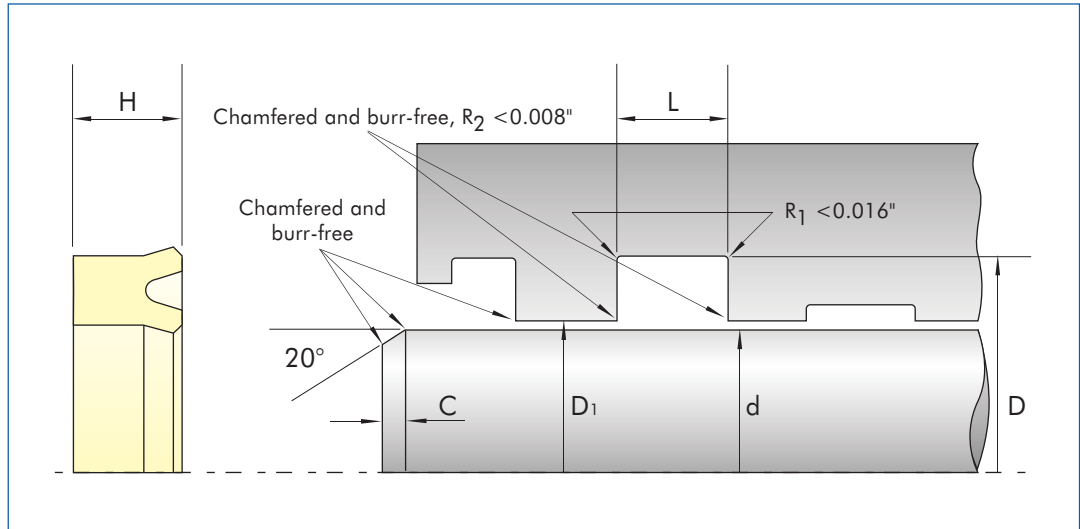


### Important Notes

The technical information provided on this specification sheet is for general guidance only and values may vary with the specific parameters and other variables of an application. For a sealing recommendation specific to your application, please contact our Engineering Department.

# DISOGRIN Symmetrical Rod Seal

## Design Details



### Surface Finish

Recommended Surface Finish		
Surface	R <sub>max</sub>	R <sub>a</sub>
Sliding Surface	≤ 100 μ inch	≤ 12 μ inch
Groove Bottom	≤ 252 μ inch	≤ 64 μ inch
Groove Sides	≤ 600 μ inch	≤ 120 μ inch

### Clearance Gap, Diameter D1

The clearance gap, diameter D<sub>1</sub>, is based on the the system pressure. It is also based on using non-metallic guide elements.

Diameter D <sub>1</sub> = d + G <sub>max</sub>			
Pressure, psi	1000	3000	4000
G <sub>max</sub>	0.032"	0.015"	0.012"

### Lead-in Chamfer "C"

Seal Cross-Section	Lead-in Chamfer C
0.125"	0.07"
0.187"	0.10"
0.250"	0.16"
0.312" ... 0.375"	0.20"
0.437"	0.26"
0.500"	0.29"

### Tolerances

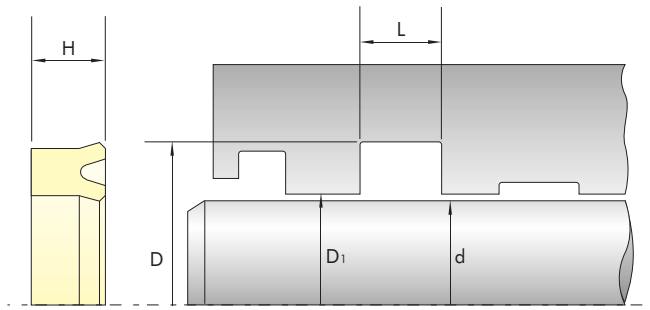
Tolerances for each diameter based on diameter. Please see size listing for dimensions for each part. Please see "Design Tolerance" section for complete details on machine tolerances.

Dimension	Range	Tolerance
d	< 3"	+0.000 - 0.003
	≥ 3" and < 7"	+0.000 - 0.004
	≥ 7" and < 10"	+0.000 - 0.005
	≥ 10" and < 15"	+0.000 - 0.006
D	< 1.5"	+0.005 - 0.000
	≥ 1.5" and < 2"	+0.007 - 0.000
	≥ 2 and < 3.25"	+0.008 - 0.000
	≥ 3.25" and < 5"	+0.009 - 0.000
	≥ 5" and < 7"	+0.010 - 0.000
	≥ 7" and < 9"	+0.011 - 0.000
L	≥ 9" and < 15"	+0.012 - 0.000
	≤ 1"	+0.015 - 0.000

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

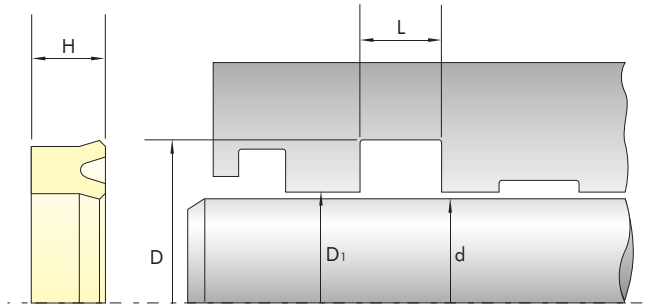


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
1/8	3/8	1/8	0.125	0.375	0.156	005-003
1/8	3/8	3/16	0.125	0.375	0.218	005-002
1/8	3/8	1/4	0.125	0.375	0.281	005-001
3/16	7/16	1/8	0.188	0.438	0.156	005-006
3/16	7/16	3/16	0.188	0.438	0.218	005-005
3/16	7/16	1/4	0.188	0.438	0.281	005-004
1/4	1/2	1/8	0.250	0.500	0.156	005-009
1/4	1/2	3/16	0.250	0.500	0.218	005-008
1/4	1/2	1/4	0.250	0.500	0.281	005-007
1/4	5/8	3/16	0.250	0.625	0.218	005-012
1/4	5/8	1/4	0.250	0.625	0.281	005-011
1/4	5/8	5/16	0.250	0.625	0.343	005-010
1/4	3/4	1/4	0.250	0.750	0.281	005-015
1/4	3/4	5/16	0.250	0.750	0.343	005-014
1/4	3/4	3/8	0.250	0.750	0.406	005-013
5/16	13/16	5/16	0.313	0.813	0.343	005-020
5/16	13/16	3/8	0.313	0.813	0.406	005-019
5/16	9/16	1/8	0.313	0.563	0.156	005-018
5/16	9/16	3/16	0.313	0.563	0.218	005-017
5/16	9/16	1/4	0.313	0.563	0.281	005-016
5/16	13/16	1/4	0.313	0.813	0.281	005-021
3/8	5/8	1/8	0.375	0.625	0.156	005-024
3/8	5/8	3/16	0.375	0.625	0.218	005-023
3/8	5/8	1/4	0.375	0.625	0.281	005-022
3/8	3/4	3/16	0.375	0.750	0.218	005-027
3/8	3/4	1/4	0.375	0.750	0.281	005-026
3/8	3/4	5/16	0.375	0.750	0.343	005-025
3/8	7/8	1/4	0.375	0.875	0.281	005-030
3/8	7/8	5/16	0.375	0.875	0.343	005-029
3/8	7/8	3/8	0.375	0.875	0.406	005-028
7/16	11/16	1/8	0.438	0.688	0.156	005-033
7/16	11/16	3/16	0.438	0.688	0.218	005-032
7/16	11/16	1/4	0.438	0.688	0.281	005-031
1/2	3/4	1/8	0.500	0.750	0.156	005-036

# DISOGRIN Symmetrical Rod Seal

## Standard Range

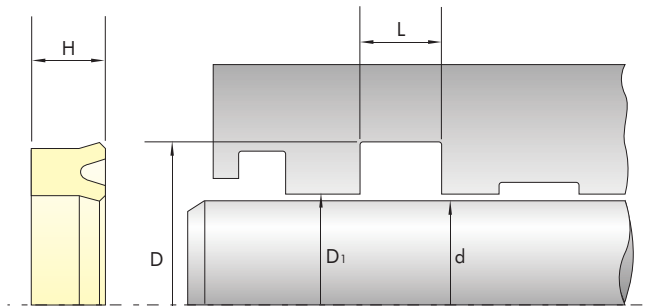
### Inch Sizes



Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
1/2	3/4	3/16	0.500	0.750	0.218	005-035
1/2	3/4	1/4	0.500	0.750	0.281	005-034
1/2	7/8	3/16	0.500	0.875	0.218	005-039
1/2	7/8	1/4	0.500	0.875	0.281	005-038
1/2	7/8	5/16	0.500	0.875	0.343	005-037
1/2	1	1/4	0.500	1.000	0.281	005-042
1/2	1	5/16	0.500	1.000	0.343	005-041
1/2	1	3/8	0.500	1.000	0.406	005-040
9/16	1 1/16	5/16	0.563	1.063	0.343	005-050
9/16	1 1/16	3/8	0.563	1.063	0.406	004-049
9/16	1 1/16	1/4	0.563	1 1/16	0.281	005-051
9/16	13/16	1/8	0.563	0.813	0.156	005-045
9/16	13/16	3/16	0.563	0.813	0.218	005-044
9/16	13/16	1/4	0.563	0.813	0.281	005-043
9/16	15/16	3/16	0.563	0.938	0.218	005-048
9/16	15/16	1/4	0.563	0.938	0.281	005-047
9/16	15/16	5/16	0.563	0.938	0.343	005-046
5/8	7/8	1/8	0.625	0.875	0.156	005-054
5/8	7/8	3/16	0.625	0.875	0.218	005-053
5/8	7/8	1/4	0.625	0.875	0.281	005-052
5/8	1	3/16	0.625	1.000	0.218	005-057
5/8	1	1/4	0.625	1.000	0.281	005-056
5/8	1	5/16	0.625	1.000	0.343	005-055
5/8	1-1/8	1/4	0.625	1.125	0.281	005-060
5/8	1-1/8	5/16	0.625	1.125	0.343	005-059
5/8	1-1/8	3/8	0.625	1.125	0.406	005-058
11/16	1-1/16	3/16	0.688	1.063	0.218	005-064
11/16	1-1/16	1/4	0.688	1.063	0.281	005-063
11/16	1-3/16	5/16	0.688	1.188	0.343	005-066
11/16	1-1/16	5/16	0.688	1.063	0.343	005-062
11/16	1-3/16	1/4	0.688	1.188	0.281	005-067
11/16	1-3/16	3/8	0.688	1.188	0.406	005-065
3/4	1	1/8	0.750	1.000	0.156	005-070
3/4	1	3/16	0.750	1.000	0.218	005-069

# DISOGRIN Symmetrical Rod Seal

Standard Range  
Inch Sizes

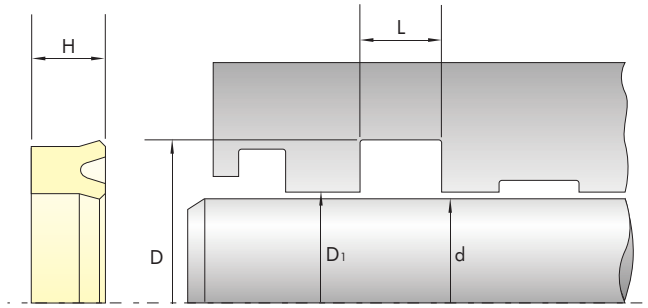


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
3/4	1	1/4	0.750	1.000	0.281	005-068
3/4	1-1/8	3/16	0.750	1.125	0.218	005-073
3/4	1-1/8	1/4	0.750	1.125	0.281	005-072
3/4	1-1/8	5/16	0.750	1.125	0.343	005-071
3/4	1-1/4	1/4	0.750	1.250	0.281	005-076
3/4	1-1/4	5/16	0.750	1.250	0.343	005-075
3/4	1-1/4	3/8	0.750	1.250	0.406	005-074
13/16	1-1/16	3/16	0.813	1.063	0.218	005-078
13/16	1-3/16	3/16	0.813	1.188	0.218	005-082
13/16	1-5/16	5/16	0.813	1.313	0.343	005-084
13/16	1-3/16	1/4	0.813	1.188	0.281	005-081
13/16	1-1/16	1/8	0.813	1.063	0.156	005-079
13/16	1-1/16	1/4	0.813	1.063	0.281	005-077
13/16	1-3/16	5/16	0.813	1.188	0.343	005-080
13/16	1-5/16	1/4	0.813	1.313	0.281	005-085
13/16	1-5/16	3/8	0.813	1.313	0.406	005-083
7/8	1-1/8	1/8	0.875	1.125	0.156	005-088
7/8	1-1/8	3/16	0.875	1.125	0.218	005-087
7/8	1-1/8	1/4	0.875	1.125	0.281	005-086
7/8	1-1/4	3/16	0.875	1.250	0.218	005-091
7/8	1-1/4	1/4	0.875	1.250	0.281	005-090
7/8	1-1/4	5/16	0.875	1.250	0.343	005-089
7/8	1-3/8	1/4	0.875	1.375	0.281	005-094
7/8	1-3/8	5/16	0.875	1.375	0.343	005-093
7/8	1-3/8	3/8	0.875	1.375	0.406	005-092
15/16	1-5/16	1/4	0.938	1.313	0.281	005-099
15/16	1-7/16	5/16	0.938	1.438	0.343	005-102
15/16	1-7/16	3/8	0.938	1.438	0.406	005-101
15/16	1-3/16	1/8	0.938	1.188	0.156	005-097
15/16	1-3/16	3/16	0.938	1.188	0.218	005-096
15/16	1-3/16	1/4	0.938	1.188	0.281	005-095
15/16	1-5/16	3/16	0.938	1.313	0.218	005-100
15/16	1-5/16	5/16	0.938	1.313	0.343	005-098
15/16	1-7/16	1/4	0.938	1.438	0.281	005-103

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

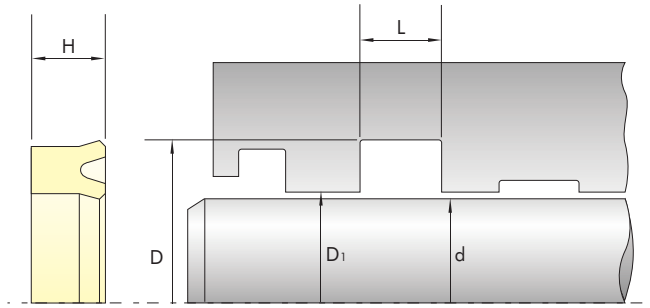


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
1	1-1/4	1/8	1.000	1.250	0.156	005-106
1	1-1/4	3/16	1.000	1.250	0.218	005-105
1	1-1/4	1/4	1.000	1.250	0.281	005-104
1	1-3/8	3/16	1.000	1.375	0.218	005-109
1	1-3/8	1/4	1.000	1.375	0.281	005-108
1	1-3/8	5/16	1.000	1.375	0.343	005-107
1	1-1/2	1/4	1.000	1.500	0.281	005-112
1	1-1/2	5/16	1.000	1.500	0.343	005-111
1	1-1/2	3/8	1.000	1.500	0.406	005-110
1-1/16	1-9/16	5/16	1.063	1.563	0.343	005-117
1-1/16	1-9/16	3/8	1.063	1.563	0.406	005-116
1-1/16	1-7/16	1/4	1.063	1.438	0.281	005-115
1-1/16	1-7/16	5/16	1.063	1.438	0.343	005-114
1-1/16	1-9/16	1/4	1.063	1.563	0.281	005-118
1-1/8	1-3/8	1/4	1.125	1.375	0.281	005-119
1-1/8	1-1/2	1/4	1.125	1.500	0.281	005-121
1-1/8	1-1/2	5/16	1.125	1.500	0.343	005-120
1-1/8	1-5/8	1/4	1.125	1.625	0.281	005-124
1-1/8	1-5/8	5/16	1.125	1.625	0.343	005-123
1-1/8	1-5/8	3/8	1.125	1.625	0.406	005-122
1-3/16	1-7/16	1/4	1.188	1.438	0.281	005-125
1-3/16	1-9/16	1/4	1.188	1.563	0.281	005-128
1-3/16	1-9/16	3/8	1.188	1.563	0.406	005-126
1-3/16	1-11/16	3/8	1.188	1.688	0.406	005-129
1-3/16	1-9/16	5/16	1.188	1.563	0.343	005-127
1-3/16	1-11/16	1/4	1.188	1.688	0.281	005-131
1-3/16	1-11/16	5/16	1.188	1.688	0.343	005-130
1-1/4	1-1/2	1/4	1.250	1.500	0.281	005-132
1-1/4	1-5/8	1/4	1.250	1.625	0.281	005-134
1-1/4	1-5/8	5/16	1.250	1.625	0.343	005-133
1-1/4	1-3/4	1/4	1.250	1.750	0.281	005-137
1-1/4	1-3/4	5/16	1.250	1.750	0.343	005-136
1-1/4	1-3/4	3/8	1.250	1.750	0.406	005-135
1-1/4	1-7/8	3/8	1.250	1.875	0.406	005-140

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

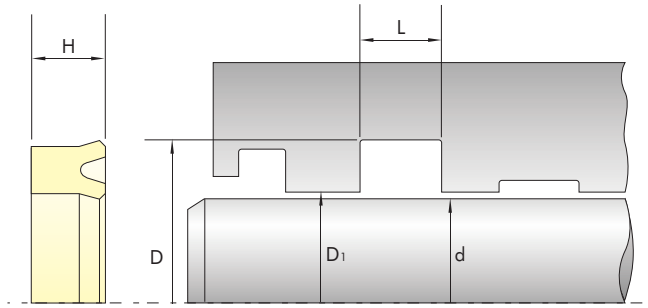


Nominal Dims. (inch)			d	D	L	Part No.
d	D	H	(inch)	(inch)	(inch)	
1-1/4	1-7/8	7/16	1.250	1.875	0.468	005-139
1-1/4	1-7/8	1/2	1.250	1.875	0.531	005-138
1-1/4	2	3/8	1.250	2.000	0.406	005-143
1-1/4	2	7/16	1.250	2.000	0.468	005-142
1-1/4	2	1/2	1.250	2.000	0.531	005-141
1-5/16	1-13/16	5/16	1.313	1.813	0.343	005-147
1-5/16	1-15/16	3/8	1.313	1.938	0.406	005-150
1-5/16	1-15/16	7/16	1.313	1.938	0.468	005-149
1-5/16	1-15/16	1/2	1.313	1.938	0.531	005-148
1-5/16	1-9/16	1/4	1.313	1.563	0.281	005-144
1-5/16	1-11/16	5/16	1.313	1.688	0.343	005-145
1-5/16	1-13/16	3/8	1.313	1.813	0.406	005-146
1-3/8	1-5/8	3/4	1.375	1.625	0.781	005-151
1-3/8	1-3/4	5/16	1.375	1.750	0.343	005-152
1-3/8	1-7/8	5/16	1.375	1.875	0.343	005-154
1-3/8	1-7/8	3/8	1.375	1.875	0.406	005-153
1-3/8	2	3/8	1.375	2.000	0.406	005-157
1-3/8	2	7/16	1.375	2.000	0.468	005-156
1-3/8	2	1/2	1.375	2.000	0.531	005-155
1-7/16	1-11/16	1/4	1.438	1.688	0.281	005-158
1-7/16	2-1/16	3/8	1.438	2.063	0.406	005-162
1-7/16	2-1/16	7/16	1.438	2.063	0.468	005-161
1-7/16	1-13/16	5/16	1.438	1.813	0.343	005-159
1-7/16	2-1/16	1/2	1.438	2.063	0.531	005-160
1-1/2	1-3/4	1/4	1.500	1.750	0.281	005-163
1-1/2	1-7/8	5/16	1.500	1.875	0.343	005-165
1-1/2	1-7/8	3/8	1.500	1.875	0.406	005-164
1-1/2	2	5/16	1.500	2.000	0.343	005-167
1-1/2	2	3/8	1.500	2.000	0.406	005-166
1-1/2	2-1/8	3/8	1.500	2.125	0.406	005-170
1-1/2	2-1/8	7/16	1.500	2.125	0.468	005-169
1-1/2	2-1/8	1/2	1.500	2.125	0.531	005-168
1-1/2	2-1/4	3/8	1.500	2.250	0.406	005-173
1-1/2	2-1/4	7/16	1.500	2.250	0.468	005-172

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

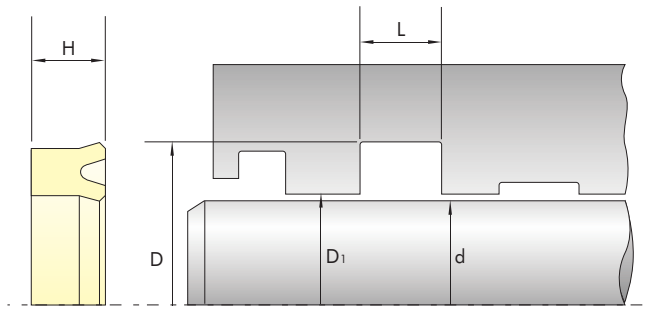


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
1-1/2	2-1/4	1/2	1.500	2.250	0.531	005-171
1-5/8	2	5/16	1.625	2.000	0.343	005-175
1-5/8	2	3/8	1.625	2.000	0.406	005-174
1-5/8	2-1/8	5/16	1.625	2.125	0.343	005-177
1-5/8	2-1/8	3/8	1.625	2.125	0.406	005-176
1-5/8	2-1/4	3/8	1.625	2.250	0.406	005-180
1-5/8	2-1/4	7/16	1.625	2.250	0.468	005-179
1-5/8	2-1/4	1/2	1.625	2.250	0.531	005-178
1-5/8	2-3/8	3/8	1.625	2.375	0.406	005-183
1-5/8	2-3/8	1/2	1.625	2.375	0.531	005-182
1-5/8	2-3/8	5/8	1.625	2.375	0.656	005-181
1-3/4	2-1/8	5/16	1.750	2.125	0.343	005-185
1-3/4	2-1/8	3/8	1.750	2.125	0.406	005-184
1-3/4	2-1/4	5/16	1.750	2.250	0.343	005-187
1-3/4	2-1/4	3/8	1.750	2.250	0.406	005-186
1-3/4	2-3/8	3/8	1.750	2.375	0.406	005-190
1-3/4	2-3/8	7/16	1.750	2.375	0.468	005-189
1-3/4	2-3/8	1/2	1.750	2.375	0.531	005-188
1-3/4	2-1/2	3/8	1.750	2.500	0.406	005-193
1-3/4	2-1/2	1/2	1.750	2.500	0.531	005-192
1-3/4	2-1/2	5/8	1.750	2.500	0.656	005-191
1-7/8	2-1/4	5/16	1.875	2.250	0.343	005-195
1-7/8	2-1/4	3/8	1.875	2.250	0.406	005-194
1-7/8	2-1/2	3/8	1.875	2.500	0.406	005-198
1-7/8	2-1/2	7/16	1.875	2.500	0.468	005-197
1-7/8	2-1/2	1/2	1.875	2.500	0.531	005-196
1-7/8	2-5/8	3/8	1.875	2.625	0.406	005-201
1-7/8	2-5/8	1/2	1.875	2.625	0.531	005-200
1-7/8	2-5/8	5/8	1.875	2.625	0.656	005-199
1-7/8	2-7/8	5/8	1.875	2.875	0.656	005-523
2	2-3/8	5/16	2.000	2.375	0.343	005-203
2	2-3/8	3/8	2.000	2.375	0.406	005-202
2	2-1/2	5/16	2.000	2.500	0.343	005-205
2	2-1/2	3/8	2.000	2.500	0.406	005-204

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

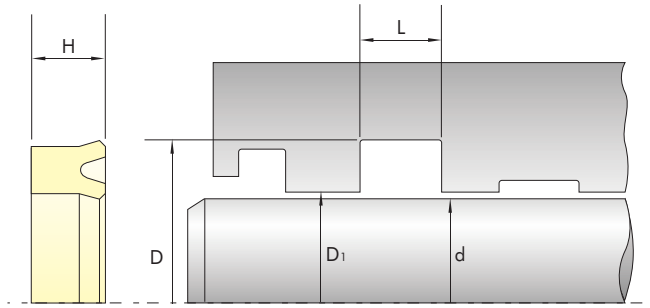


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
2	2-5/8	3/8	2.000	2.625	0.406	005-208
2	2-5/8	7/16	2.000	2.625	0.468	005-207
2	2-5/8	1/2	2.000	2.625	0.531	005-206
2	2-3/4	3/8	2.000	2.750	0.406	005-211
2	2-3/4	1/2	2.000	2.750	0.531	005-210
2	2-3/4	5/8	2.000	2.750	0.656	005-209
2-1/8	2-1/2	5/16	2.125	2.500	0.343	005-213
2-1/8	2-1/2	3/8	2.125	2.500	0.406	005-212
2-1/8	2-5/8	5/16	2.125	2.625	0.343	005-215
2-1/8	2-5/8	3/8	2.125	2.625	0.406	005-214
2-1/8	2-3/4	3/8	2.125	2.750	0.406	005-218
2-1/8	2-3/4	7/16	2.125	2.750	0.468	005-217
2-1/8	2-3/4	1/2	2.125	2.750	0.531	005-216
2-1/4	2-5/8	5/16	2.250	2.625	0.343	005-220
2-1/4	2-5/8	3/8	2.250	2.625	0.406	005-219
2-1/4	2-3/4	5/16	2.250	2.750	0.343	005-222
2-1/4	2-3/4	3/8	2.250	2.750	0.406	005-221
2-1/4	2-7/8	3/8	2.250	2.875	0.406	005-225
2-1/4	2-7/8	7/16	2.250	2.875	0.468	005-224
2-1/4	2-7/8	1/2	2.250	2.875	0.531	005-223
2-1/4	3	3/8	2.250	3.000	0.406	005-228
2-1/4	3	1/2	2.250	3.000	0.531	005-227
2-1/4	3	5/8	2.250	3.000	0.656	005-226
2-3/8	2-3/4	5/16	2.375	2.750	0.343	005-230
2-3/8	2-3/4	3/8	2.375	2.750	0.406	005-229
2-3/8	2-7/8	5/16	2.375	2.875	0.343	005-232
2-3/8	2-7/8	3/8	2.375	2.875	0.406	005-231
2-3/8	3	3/8	2.375	3.000	0.406	005-235
2-3/8	3	7/16	2.375	3.000	0.468	005-234
2-3/8	3	1/2	2.375	3.000	0.531	005-233
2-3/8	3-1/8	3/8	2.375	3.125	0.406	005-238
2-3/8	3-1/8	1/2	2.375	3.125	0.531	005-237
2-3/8	3-1/8	5/8	2.375	3.125	0.656	005-236
2-1/2	2-7/8	3/8	2.500	2.875	0.406	005-239

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

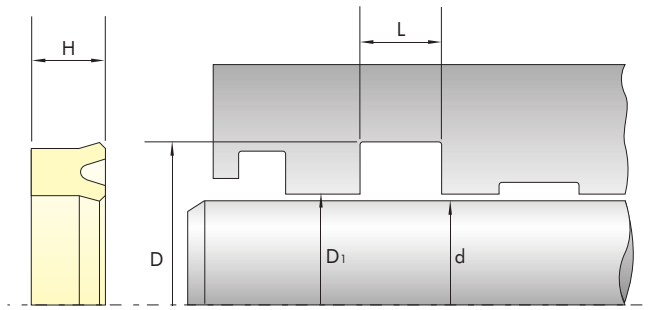


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
2-1/2	3	5/16	2.500	3.000	0.343	005-241
2-1/2	3	3/8	2.500	3.000	0.406	005-240
2-1/2	3-1/8	3/8	2.500	3.125	0.406	005-244
2-1/2	3-1/8	7/16	2.500	3.125	0.468	005-243
2-1/2	3-1/8	1/2	2.500	3.125	0.531	005-242
2-1/2	3-1/4	3/8	2.500	3.250	0.406	005-247
2-1/2	3-1/4	1/2	2.500	3.250	0.531	005-246
2-1/2	3-1/4	5/8	2.500	3.250	0.656	005-245
2-5/8	3	3/8	2.625	3.000	0.406	005-248
2-5/8	3-1/8	3/8	2.625	3.125	0.406	005-249
2-5/8	3-1/4	3/8	2.625	3.250	0.406	005-251
2-5/8	3-1/4	1/2	2.625	3.250	0.531	005-250
2-5/8	3-3/8	3/8	2.625	3.375	0.406	005-254
2-5/8	3-3/8	1/2	2.625	3.375	0.531	005-253
2-5/8	3-3/8	5/8	2.625	3.375	0.656	005-252
2-3/4	3-1/4	3/8	2.750	3.250	0.406	005-255
2-3/4	3-3/8	3/8	2.750	3.375	0.406	005-512
2-3/4	3-1/2	3/8	2.750	3.500	0.406	005-259
2-3/4	3-1/2	1/2	2.750	3.500	0.531	005-258
2-3/4	3-1/2	5/8	2.750	3.500	0.656	005-257
2-3/4	3-1/2	7/8	2.750	3.500	0.906	005-256
2-7/8	3-1/4	3/8	2.875	3.250	0.406	005-260
2-7/8	3-3/8	3/8	2.875	3.375	0.406	005-261
2-7/8	3-1/2	3/8	2.875	3.500	0.406	005-263
2-7/8	3-1/2	1/2	2.875	3.500	0.531	005-262
2-7/8	3-5/8	3/8	2.875	3.625	0.406	005-266
2-7/8	3-5/8	1/2	2.875	3.625	0.531	005-265
2-7/8	3-5/8	5/8	2.875	3.625	0.656	005-264
3	3-3/8	3/8	3.000	3.375	0.406	005-267
3	3-1/2	3/8	3.000	3.500	0.406	005-268
3	3-5/8	3/8	3.000	3.625	0.406	005-270
3	3-5/8	1/2	3.000	3.625	0.531	005-269
3	3-3/4	3/8	3.000	3.750	0.406	005-273
3	3-3/4	1/2	3.000	3.750	0.531	005-272

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

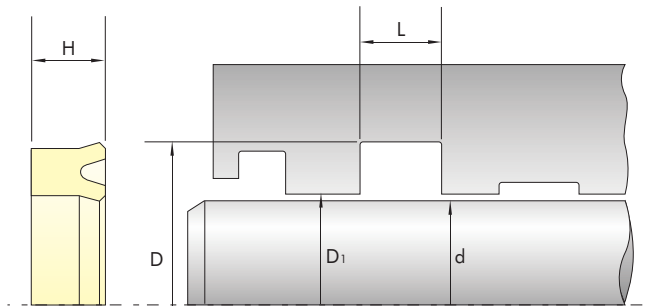


Nominal Dims. (inch)			d	D	L	Part No.
d	D	H	(inch)	(inch)	(inch)	
3	3-3/4	5/8	3.000	3.750	0.656	005-271
3	4	21/32	3.000	4.000		005-524
3-1/8	3-1/2	3/8	3.125	3.500	0.406	005-274
3-1/8	3-5/8	3/8	3.125	3.625	0.406	005-275
3-1/8	3-3/4	3/8	3.125	3.750	0.406	005-277
3-1/8	3-3/4	1/2	3.125	3.750	0.531	005-276
3-1/4	3-5/8	3/8	3.250	3.625	0.406	005-278
3-1/4	3-3/4	3/8	3.250	3.750	0.406	005-279
3-1/4	3-7/8	3/8	3.250	3.875	0.406	005-281
3-1/4	3-7/8	1/2	3.250	3.875	0.531	005-280
3-1/4	4	3/8	3.250	4.000	0.406	005-284
3-1/4	4	1/2	3.250	4.000	0.531	005-283
3-1/4	4	5/8	3.250	4.000	0.656	005-282
3-3/8	3-3/4	3/8	3.375	3.750	0.406	005-285
3-3/8	3-7/8	3/8	3.375	3.875	0.406	005-286
3-3/8	4	3/8	3.375	4.000	0.406	005-288
3-3/8	4	1/2	3.375	4.000	0.531	005-287
3-1/2	3-7/8	3/8	3.500	3.875	0.406	005-292
3-1/2	4	3/8	3.500	4.000	0.406	005-293
3-1/2	4-1/8	3/8	3.500	4.125	0.406	005-295
3-1/2	4-1/8	1/2	3.500	4.125	0.531	005-294
3-1/2	4-1/4	3/8	3.500	4.250	0.406	005-298
3-1/2	4-1/4	1/2	3.500	4.250	0.531	005-297
3-1/2	4-1/4	5/8	3.500	4.250	0.656	005-296
3-1/2	4-1/2	1/2	3.500	4.500	0.531	005-301
3-1/2	4-1/2	5/8	3.500	4.500	0.656	005-300
3-1/2	4-1/2	3/4	3.500	4.500	0.781	005-299
3-5/8	4	3/8	3.625	4.000	0.406	005-302
3-5/8	4-1/8	3/8	3.625	4.125	0.406	005-303
3-5/8	4-1/4	3/8	3.625	4.250	0.406	005-305
3-5/8	4-1/4	1/2	3.625	4.250	0.531	005-304
3-3/4	4-1/8	3/8	3.750	4.125	0.406	005-307
3-3/4	4-1/4	3/8	3.750	4.250	0.406	005-308
3-3/4	4-3/8	3/8	3.750	4.375	0.406	005-310

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

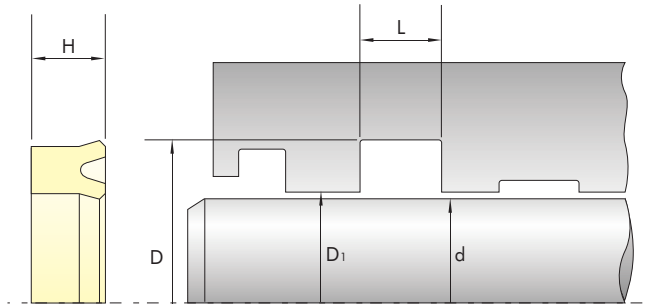


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
3-3/4	4-3/8	1/2	3.750	4.375	0.531	005-309
3-3/4	4-1/2	3/8	3.750	4.500	0.406	005-313
3-3/4	4-1/2	1/2	3.750	4.500	0.531	005-312
3-3/4	4-1/2	5/8	3.750	4.500	0.656	005-311
3-7/8	4-1/4	3/8	3.875	4.250	0.406	005-516
3-7/8	4-3/8	3/8	3.875	4.375	0.406	005-314
3-7/8	4-1/2	3/8	3.875	4.500	0.406	005-316
3-7/8	4-1/2	1/2	3.875	4.500	0.531	005-315
3-7/8	4-5/8	3/8	3.875	4.625	0.406	005-319
3-7/8	4-5/8	1/2	3.875	4.625	0.531	005-318
3-7/8	4-5/8	5/8	3.875	4.625	0.656	005-317
3-7/8	4-7/8	1/2	3.875	4.875	0.531	005-321
3-7/8	4-7/8	5/8	3.875	4.875	0.656	005-320
4	4-3/8	3/8	4.000	4.375	0.406	005-322
4	4-1/2	9/16	4.000	4.500	0.593	005-517
4	4-5/8	3/8	4.000	4.625	0.406	005-325
4	4-5/8	1/2	4.000	4.625	0.531	005-324
4	4-5/8	9/16	4.000	4.625	0.593	005-323
4	4-3/4	3/8	4.000	4.750	0.406	005-328
4	4-3/4	1/2	4.000	4.750	0.531	005-327
4	4-3/4	5/8	4.000	4.750	0.656	005-326
4-1/8	4-5/8	9/16	4.125	4.625	0.593	005-330
4-1/8	4-3/4	3/8	4.125	4.750	0.406	005-333
4-1/8	4-3/4	1/2	4.125	4.750	0.531	005-332
4-1/8	4-3/4	9/16	4.125	4.750	0.593	005-331
4-1/8	4-7/8	1/2	4.125	4.875	0.531	005-335
4-1/8	4-7/8	5/8	4.125	4.875	0.656	005-334
4-1/4	4-5/8	3/8	4.250	4.625	0.406	005-336
4-1/4	4-3/4	9/16	4.250	4.750	0.593	005-337
4-1/4	4-7/8	3/8	4.250	4.875	0.406	005-340
4-1/4	4-7/8	1/2	4.250	4.875	0.531	005-339
4-1/4	4-7/8	9/16	4.250	4.875	0.593	005-338
4-1/4	5	1/2	4.250	5.000	0.531	005-342
4-1/4	5	5/8	4.250	5.000	0.656	005-341

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

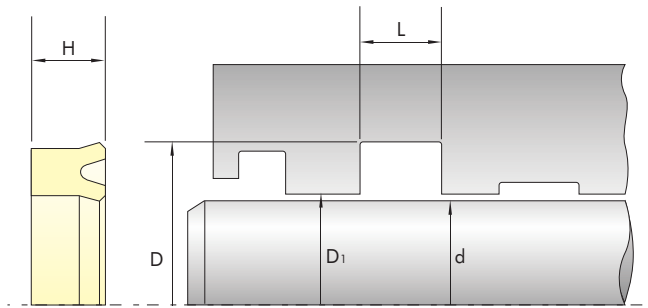


Nominal Dims. (inch)			d	D	L	Part No.
d	D	H	(inch)	(inch)	(inch)	
4-3/8	4-3/4	3/8	4.375	4.750	0.406	005-343
4-3/8	5	3/8	4.375	5.000	0.406	005-346
4-3/8	5	1/2	4.375	5.000	0.531	005-345
4-3/8	5	9/16	4.375	5.000	0.593	005-344
4-3/8	5-1/8	1/2	4.375	5.125	0.531	005-348
4-3/8	5-1/8	5/8	4.375	5.125	0.656	005-347
4-1/2	4-7/8	3/8	4.500	4.875	0.406	005-349
4-1/2	5	9/16	4.500	5.000	0.593	005-350
4-1/2	5-1/8	3/8	4.500	5.125	0.406	005-353
4-1/2	5-1/8	1/2	4.500	5.125	0.531	005-352
4-1/2	5-1/8	5/8	4.500	5.125	0.656	005-351
4-1/2	5-1/4	1/2	4.500	5.250	0.531	005-355
4-1/2	5-1/4	5/8	4.500	5.250	0.656	005-354
4-5/8	5-1/8	9/16	4.625	5.125	0.593	005-356
4-5/8	5-1/4	3/8	4.625	5.250	0.406	005-359
4-5/8	5-1/4	1/2	4.625	5.250	0.531	005-358
4-5/8	5-1/4	5/8	4.625	5.250	0.656	005-357
4-5/8	5-3/8	1/2	4.625	5.375	0.531	005-361
4-5/8	5-3/8	5/8	4.625	5.375	0.656	005-360
4-3/4	5-1/4	9/16	4.750	5.250	0.593	005-362
4-3/4	5-3/8	3/8	4.750	5.375	0.406	005-365
4-3/4	5-3/8	1/2	4.750	5.375	0.531	005-364
4-3/4	5-3/8	5/8	4.750	5.375	0.656	005-363
4-3/4	5-1/2	1/2	4.750	5.500	0.531	005-367
4-3/4	5-1/2	5/8	4.750	5.500	0.656	005-366
4-7/8	5-3/8	9/16	4.875	5.375	0.593	005-368
4-7/8	5-1/2	3/8	4.875	5.500	0.406	005-371
4-7/8	5-1/2	1/2	4.875	5.500	0.531	005-370
4-7/8	5-1/2	5/8	4.875	5.500	0.656	005-369
4-7/8	5-5/8	1/2	4.875	5.625	0.531	005-373
4-7/8	5-5/8	5/8	4.875	5.625	0.656	005-372
5	5-3/8	1/2	5.000	5.375	0.531	005-376
5	5-1/2	9/16	5.000	5.500	0.593	005-374
5	5-5/8	3/8	5.000	5.625	0.406	005-377

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

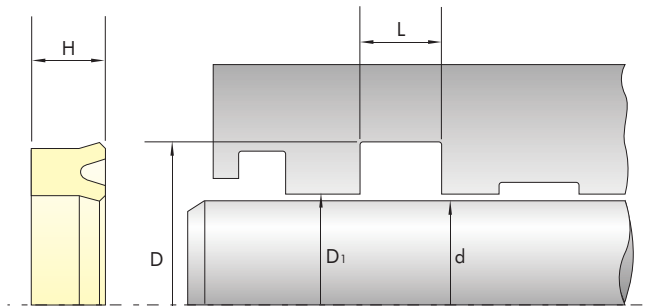


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
5	5-5/8	5/8	5.000	5.625	0.656	005-375
5	5-3/4	1/2	5.000	5.750	0.531	005-379
5	5-3/4	5/8	5.000	5.750	0.656	005-378
5-1/8	5-5/8	9/16	5.125	5.625	0.593	005-380
5-1/8	5-3/4	3/8	5.125	5.750	0.406	005-383
5-1/8	5-3/4	1/2	5.125	5.750	0.531	005-382
5-1/8	5-3/4	5/8	5.125	5.750	0.656	005-381
5-1/8	5-7/8	1/2	5.125	5.875	0.531	005-385
5-1/8	5-7/8	5/8	5.125	5.875	0.656	005-384
5-1/4	5-3/4	9/16	5.250	5.750	0.593	005-386
5-1/4	5-7/8	3/8	5.250	5.875	0.406	005-389
5-1/4	5-7/8	1/2	5.250	5.875	0.531	005-388
5-1/4	5-7/8	5/8	5.250	5.875	0.656	005-387
5-1/4	6	1/2	5.250	6.000	0.531	005-391
5-1/4	6	5/8	5.250	6.000	0.656	005-390
5-3/8	5-7/8	9/16	5.375	5.875	0.593	005-392
5-3/8	6	3/8	5.375	6.000	0.406	005-395
5-3/8	6	1/2	5.375	6.000	0.531	005-394
5-3/8	6	5/8	5.375	6.000	0.656	005-393
5-3/8	6-1/8	1/2	5.375	6.125	0.531	005-397
5-3/8	6-1/8	5/8	5.375	6.125	0.656	005-396
5-1/2	6-1/8	3/8	5.500	6.125	0.406	005-400
5-1/2	6-1/8	1/2	5.500	6.125	0.531	005-398
5-1/2	6-1/8	1/2	5.500	6.125	0.531	005-399
5-1/2	6-1/4	1/2	5.500	6.250	0.531	005-402
5-1/2	6-1/4	5/8	5.500	6.250	0.656	005-401
5-5/8	6-1/8	9/16	5.625	6.125	0.593	005-403
5-5/8	6-1/4	3/8	5.625	6.250	0.406	005-406
5-5/8	6-1/4	1/2	5.625	6.250	0.531	005-405
5-5/8	6-1/4	5/8	5.625	6.250	0.656	005-404
5-5/8	6-3/8	1/2	5.625	6.375	0.531	005-408
5-5/8	6-3/8	5/8	5.625	6.375	0.656	005-407
5-3/4	6-1/4	5/8	5.750	6.250	0.656	005-522
5-3/4	6-3/8	3/8	5.750	6.375	0.406	005-411

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

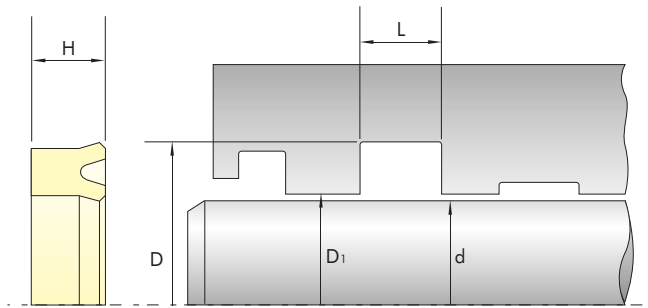


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
5-3/4	6-3/8	1/2	5.750	6.375	0.531	005-410
5-3/4	6-3/8	9/16	5.750	6.375	0.593	005-409
5-3/4	6-1/2	1/2	5.750	6.500	0.531	005-413
5-3/4	6-1/2	5/8	5.750	6.500	0.656	005-412
5-7/8	6-3/8	9/16	5.875	6.375	0.593	005-414
5-7/8	6-1/2	3/8	5.875	6.500	0.406	005-417
5-7/8	6-1/2	1/2	5.875	6.500	0.531	005-416
5-7/8	6-1/2	9/16	5.875	6.500	0.593	005-415
5-7/8	6-5/8	1/2	5.875	6.625	0.531	005-419
5-7/8	6-5/8	5/8	5.875	6.625	0.656	005-418
6	6-1/2	9/16	6.000	6.500	0.593	005-420
6	7	5/8	6.000	7.000	0.656	005-422
6	7	3/4	6.000	7.000	0.781	005-421
6-1/4	6-3/4	9/16	6.250	6.750	0.593	005-423
6-1/4	7	1/2	6.250	7.000	0.531	005-425
6-1/4	7	5/8	6.250	7.000	0.656	005-424
6-1/4	7-1/4	5/8	6.250	7.250	0.656	005-427
6-1/4	7-1/4	3/4	6.250	7.250	0.781	005-426
6-1/2	7	9/16	6.500	7.000	0.593	005-428
6-1/2	7-1/4	1/2	6.500	7.250	0.531	005-430
6-1/2	7-1/4	5/8	6.500	7.250	0.656	005-429
6-1/2	7-1/2	5/8	6.500	7.500	0.656	005-432
6-1/2	7-1/2	3/4	6.500	7.500	0.781	005-431
6-3/4	7-1/4	9/16	6.750	7.250	0.593	005-433
6-3/4	7-1/2	1/2	6.750	7.500	0.531	005-435
6-3/4	7-1/2	5/8	6.750	7.500	0.656	005-434
6-3/4	7-3/4	5/8	6.750	7.750	0.656	005-437
6-3/4	7-3/4	3/4	6.750	7.750	0.781	005-436
7	7-1/2	9/16	7.000	7.500	0.593	005-438
7	7-3/4	1/2	7.000	7.750	0.531	005-440
7	7-3/4	5/8	7.000	7.750	0.656	005-439
7	8	5/8	7.000	8.000	0.656	005-442
7	8	3/4	7.000	8.000	0.781	005-441
7-1/4	7-3/4	9/16	7.250	7.750	0.593	005-443

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes

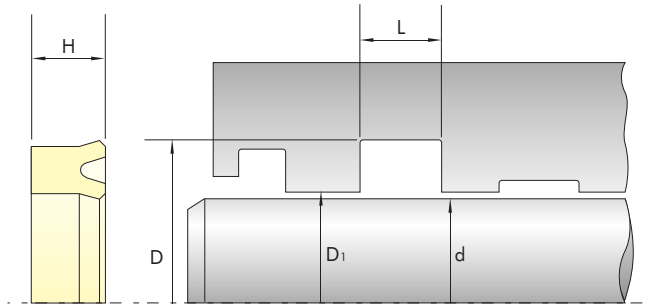


Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
7-1/4	8	1/2	7.250	8.000	0.531	005-445
7-1/4	8	5/8	7.250	8.000	0.656	005-444
7-1/2	8	9/16	7.500	8.000	0.593	005-448
7-1/2	8-1/4	1/2	7.500	8.250	0.531	005-450
7-1/2	8-1/4	5/8	7.500	8.250	0.656	005-449
7-1/2	8-1/2	5/8	7.500	8.500	0.656	005-452
7-1/2	8-1/2	3/4	7.500	8.500	0.781	005-451
7-3/4	8-1/4	9/16	7.750	8.250	0.593	005-453
7-3/4	8-1/2	1/2	7.750	8.500	0.531	005-455
7-3/4	8-1/2	5/8	7.750	8.500	0.656	005-454
7-3/4	8-3/4	5/8	7.750	8.750	0.656	005-457
7-3/4	8-3/4	3/4	7.750	8.750	0.781	005-456
8	8-1/2	9/16	8.000	8.500	0.593	005-458
8	8-3/4	1/2	8.000	8.750	0.531	005-460
8	8-3/4	5/8	8.000	8.750	0.656	005-459
8	9	5/8	8.000	9.000	0.656	005-462
8	9	3/4	8.000	9.000	0.781	005-461
8-1/4	8-3/4	9/16	8.250	8.750	0.593	005-463
8-1/4	9	1/2	8.250	9.000	0.531	005-465
8-1/4	9	5/8	8.250	9.000	0.656	005-464
8-1/4	9-1/4	5/8	8.250	9.250	0.656	005-467
8-1/4	9-1/4	3/4	8.250	9.250	0.781	005-466
8-1/2	9	9/16	8.500	9.000	0.593	005-468
8-1/2	9-1/4	1/2	8.500	9.250	0.531	005-470
8-1/2	9-1/4	5/8	8.500	9.250	0.656	005-469
8-1/2	9-1/2	5/8	8.500	9.500	0.656	005-472
8-1/2	9-1/2	3/4	8.500	9.500	0.781	005-471
8-3/4	9-1/4	9/16	8.750	9.250	0.593	005-473
8-3/4	9-1/2	1/2	8.750	9.500	0.531	005-475
8-3/4	9-1/2	5/8	8.750	9.500	0.656	005-474
8-3/4	9-3/4	5/8	8.750	9.750	0.656	005-477
8-3/4	9-3/4	3/4	8.750	9.750	0.781	005-476
9	9-3/4	1/2	9.000	9.750	0.531	005-479
9	9-3/4	5/8	9.000	9.750	0.656	005-478

# DISOGRIN Symmetrical Rod Seal

## Standard Range

### Inch Sizes



Nominal Dims. (inch)			d (inch)	D (inch)	L (inch)	Part No.
d	D	H				
9	10	5/8	9.000	10.000	0.656	005-481
9	10	3/4	9.000	10.000	0.781	005-480
9-1/2	10-3/4	3/4	9.500	10.750	0.781	005-484
9-1/2	10-3/4	7/8	9.500	10.750	0.906	005-483
9-1/2	10-3/4	1	9.500	10.750	1.031	005-482
9-3/4	10-1/2	1/2	9.750	10.500	0.531	005-486
9-3/4	10-1/2	5/8	9.750	10.500	0.656	005-485
10	11	5/8	10.000	11.000	0.656	005-488
10	11	3/4	10.000	11.000	0.781	005-487
11	12	5/8	11.000	12.000	0.656	005-490
11	12	3/4	11.000	12.000	0.781	005-489
11-1/4	12-1/2	3/4	11.250	12.500	0.781	005-491
12	13	5/8	12.000	13.000	0.656	005-493
12	13	3/4	12.000	13.000	0.781	005-492
12	13-1/2	1	12.000	13.500	1.031	005-496
12	13-1/2	1-1/8	12.000	13.500	1.231	005-495
12	13-1/2	1-1/4	12.000	13.500	1.375	005-494
13-3/4	15-1/4	1	13.750	15.250	1.031	005-499
13-3/4	15-1/4	1-1/8	13.750	15.250	1.231	005-498
13-3/4	15-1/4	1-1/4	13.750	15.250	1.375	005-497
14	15-1/2	3/4	14.000	15.500	0.781	005-500
14-1/4	15	1/2	14.250	15.000	0.531	005-502
14-1/4	15	5/8	14.250	15.000	0.656	005-501
15	16	5/8	15.000	16.000	0.656	005-504
15	16	3/4	15.000	16.000	0.781	005-503
15-3/4	17-1/4	1-1/8	15.750	17.250	1.231	005-506
15-3/4	17-1/4	1-1/4	15.750	17.250	1.375	005-505
15-3/4	17-3/4	1	15.750	17.750	1.031	005-507
16	17	5/8	16.000	17.000	0.656	005-519
16	17	3/4	16.000	17.000	0.781	005-518
17	18	5/8	17.000	18.000	0.656	005-521
17	18	3/4	17.000	18.000	0.781	005-520

# VERCO LSU Seals

simrit®



**The Simrit Group**  
**Freudenberg-NOK**



# VERCO LSU Seals

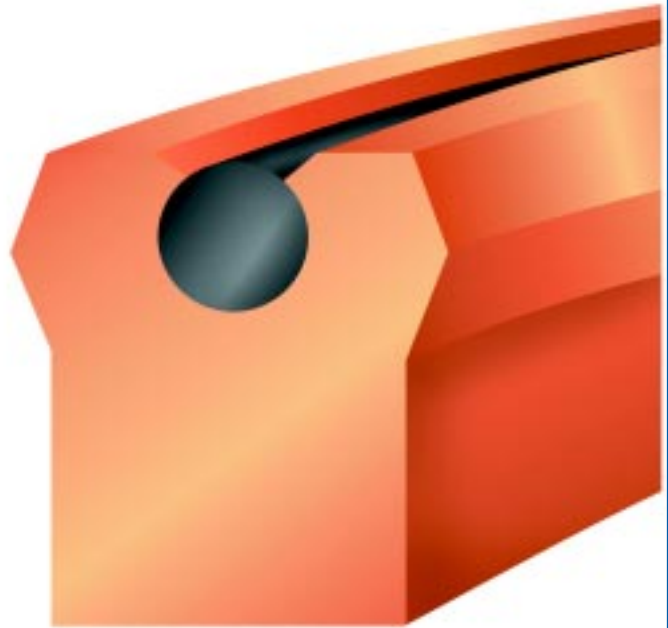
## Features & Benefits



**O-Ring Energized  
Positive Sealing  
0 to 5000 PSI**

**3 Styles in Stock**

**9300 VIS-THANE II  
POLY-TEMP II and  
Compound D9250  
Available!**



## Features & Benefits



- ◆ **STANDARD LSU** - The Standard LSU (loaded symmetrical u-cup) is the most widely used design of the LSU family. By energizing the sealing lips with an endless O-ring, you are assured of uniform, positive lip contact and excellent low pressure sealing. The seal depth is equal to the radial width which results in the square design. Standard LSU seals can be widely used to interchange in existing hydraulic packings and/or O-rings without changing groove dimensions.



- ◆ **TYPE SQB LSU** - The square version of the Type B LSU or SQB LSU has the same overall dimensions of the Standard LSU. This seal features a back-beveled lip design that has greater film breaking ability and increased unit load at the sealing surface. This results in a better wiping effect.



- ◆ **DEEP LSU** - The Deep LSU Seal incorporates the same unique design as the Standard LSU Seal, plus, it's depth is 1-1/2 times greater than the radial width. This design increases seal stability to withstand rugged, high shock, heavy duty applications. This seal will also replace many kinds of vee packing or other old fashioned seals. When minimum drag is needed, use Standard LSU or Deep LSU seals.



- ◆ **TYPE B LSU** - The Type B LSU Seal features a back-beveled sealing lip. This provides greater film breaking and increased unit loading at the sealing surface. The seal depth is generally 1-1/2 times the radial width to insure seal stability in the most rugged applications. The Type B LSU is most commonly used as a rod seal.

# VERCO LSU Seals

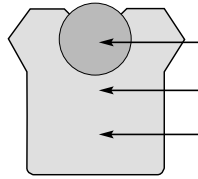
## Specification Sheet



### VERCO

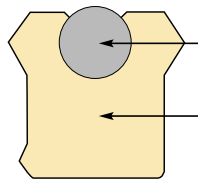
VERCO LSU seals are available in a wide variety of the most modern materials available. Our Standard, Deep, Type B, and SQB LSU's are available in many combinations of materials.

Temperature: -65° to +250°F  
 Pressure: 0 to 5000 psi  
 Fluids: Petroleum based hydraulic fluids



- BUNA N 70A (STANDARD STOCK)
- D9250
- VIS-THANE 92A (STANDARD STOCK)

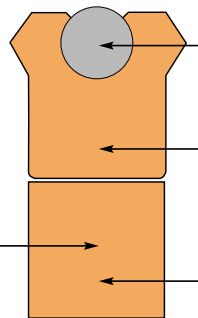
Temperature: -65° to +300°F  
 Pressure: 0 to 5000 psi  
 Fluids: Petroleum based hydraulic fluids



- BUNA N 70A (STANDARD STOCK)
- VIS-THANE II HU9300

• Available in double Lip type BB rod seal also

Temperature: -65° to +275°F  
 Pressure: 0 to 5000 psi  
 Fluids: Petroleum based hydraulic fluids<sup>1</sup>  
<sup>1</sup>Phosphate Ester fire resistant fluids  
<sup>2</sup>Water & glycol fire resistant fluids

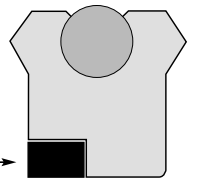


- VITON 75A
- BUNA N 70A (STANDARD STOCK)
- ETHYLENE PROPYLENE\*\*70A
- POLY-TEMP II 53D X-LONG LIFE (STANDARD STOCK)

• Modular Back-up for extended PSI or large extrusion gaps

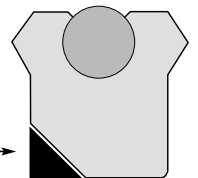
- POLY-TEMP 62D

• Anti-Extrusion back-up for large extrusion gaps or higher PSI's



- Back-ups are available for rod or piston applications

• Delta Anti-Extrusion Back-up for large extrusion gaps or higher PSI



- Back-ups Are available for rod or piston applications

\*Below 150°F  
 \*\*No contamination of hydraulic fluids can be present  
 Note: We emphasize that this tabulation should be used as a guide only.

### Examples of Applications



Earthmoving Equipment



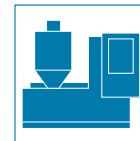
Forklift



Agriculture Equipment



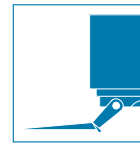
Truck Crane



Injection Molding Machines



Std. Hydraulic Cylinders



Tailgate Lift

### Important Notes

The technical information provided on this specification sheet is for general guidance only and values may vary with the specific parameters and other variables of an application. For a sealing recommendation specific to your application, please contact our Engineering Department.

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