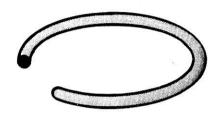
## NORTH AMERICAN SEAL

& Packing Company

530 Van Ness Ave. Fresno, CA 93721 (559) 264-7325 – Fax: (559) 268-5207



# 'O'-RINGS SERIES 20 (INCH SIZES)

#### **CHARACTERISTICS**

Series 20 polyurethane 'O'-rings are rugged, versatile seals, suitable for both dynamic and static sealing applications. They are manufactured from thermosetting liquid cast polyurethane of 95A Durometer, and have exceptionally good abrasion resistant and extrusion resistant qualities. Polyurethane normally gives up to 10 times the service of nitrile rubber.

Their consistant quality exceeds the standards recommended for 'O'-rings by the American "Rubber Manufacturers Association".

The suggested temperature and pressure limits are: -40 to +210°F, and 0-5,000 PSI, respectively.

#### DYNAMIC SEALING APPLICATIONS

'O'-rings are often used as rod or piston seals in hydraulic and pneumatic cylinders. The 'O'-ring must be installed in a rectangular groove with the correct radial squeeze (see Table 1, overleaf).

#### STATIC SEALING APPLICATIONS

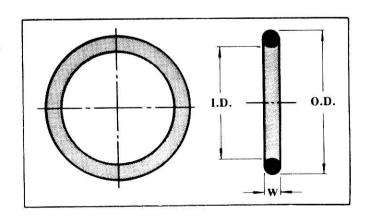
'O'-rings may also be used as static seals, in flange connections, covers, pins, bolts, etc. The hard polyurethane material makes these 'O'-rings especially suitable for applications with high or pulsating pressures. Correct gland dimensions are important for effective sealing (see Table 2, overleaf).

#### NOTE:

For static face seal applications see also Series 11 Flange Seals, Technical Bulletin UFS-82.

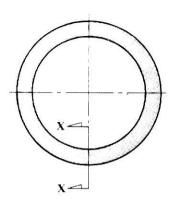
#### MATERIAL

- TYPE: Unithane 395 A Liquid Cast Polyurethane.
- HARDNESS: Durometer 95A
- FLUID COMPATABILITY: See 'Material Specifications', Technical Bulletin US 82.



## **'O'-RINGS**

### SERIES 20 (INCH SIZES)

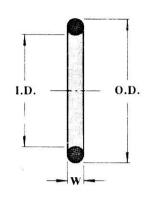


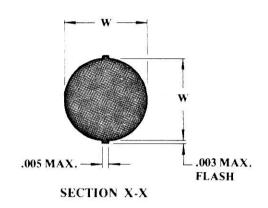
-309 thru -380

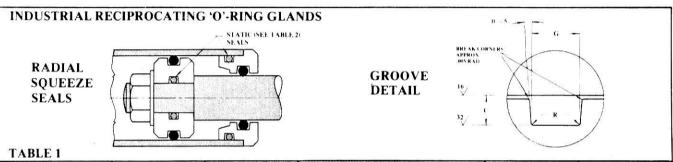
-425 thru -452

 $.210 \pm .005$ 

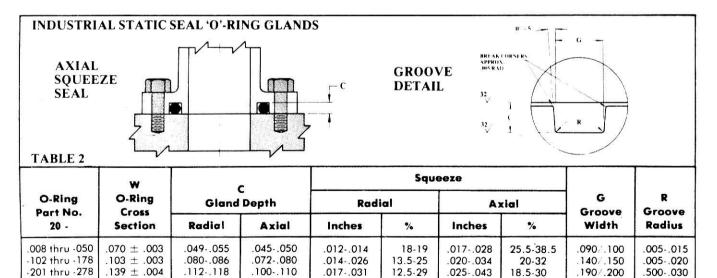
.275 ± .006







O-Ring Part No. 20 -	W O-Ring Cross Section	C Gland Depth	. Squeeze		G Groove	R Groove
			Inches	%	Width	Radius
-008 thru -050 -102 thru -178 -201 thru -278 -309 thru -380 -425 thru -452	.070 ± .003 .103 ± .003 .139 ± .004 .210 ± .005 .275 ± .006	.055057 .087090 .119123 .183188	.010018 .010019 .012024 .017032 .029047	15-25 10.18 9-17 8.5-15 10.5-17	.090/.100 .140/.150 .190/.200 .280/.290 .380/.390	.005015 .005020 .005030 .005050



.021-.039

.034-.056

.030-.050

.039-.061

14.5-23

14.5-21.5

10.18

12.5-20

.280/.290

.380 .390

.005-.050

.005-.060

.165-.175

.220-.230

.176-.184

.225-.235