

# Turcon® Glyd Ring®



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Double-acting

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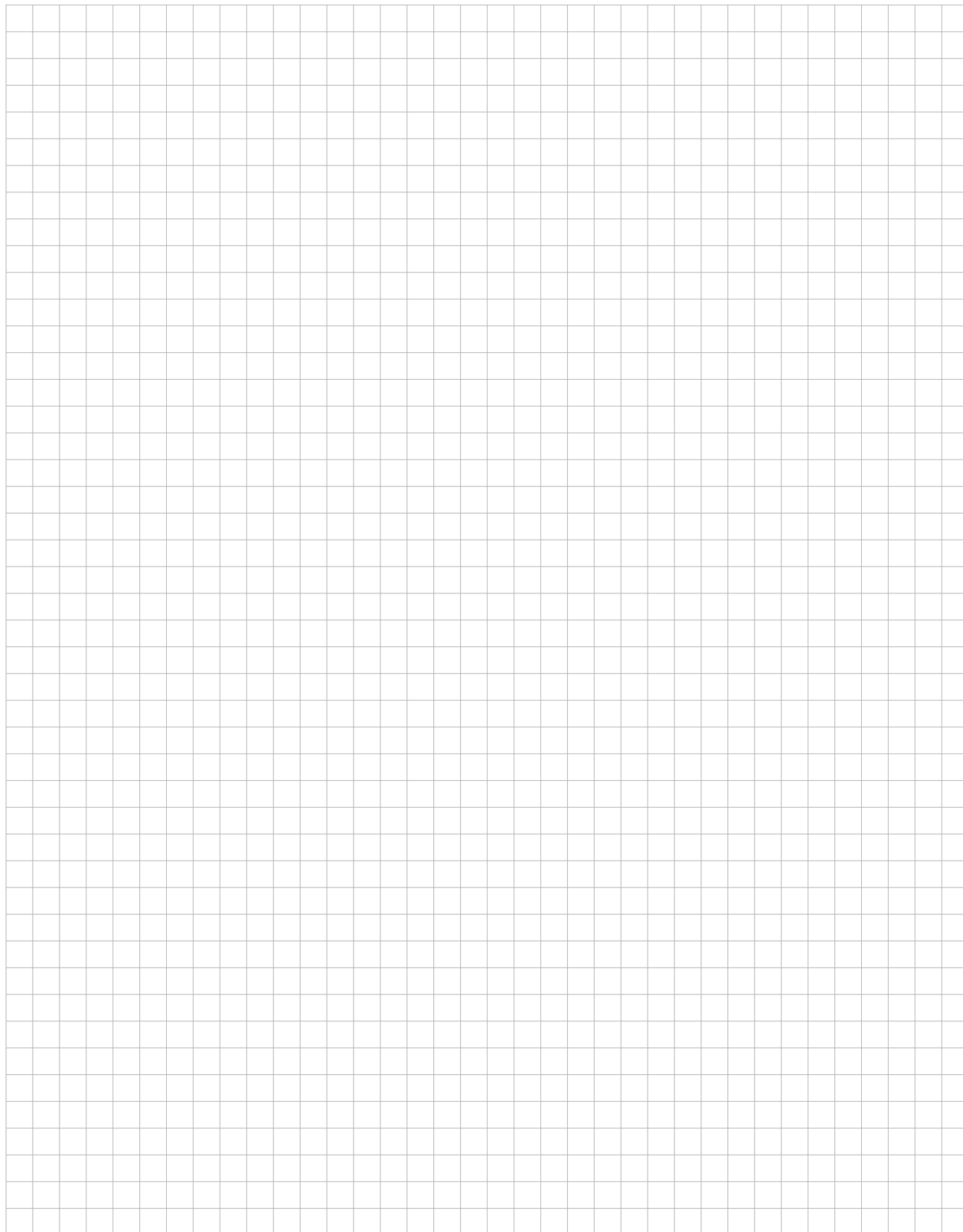
Rubber-energized plastic-faced seal

**Material:**

Turcon®, Zurcon® and Elastomer

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## ■ Turcon® Glyd Ring®



### ■ Description

Turcon® Glyd Ring® is a very effective and reliable low friction seal. It is particularly suitable as a rod seal in both high and low pressure systems.

The double-acting Glyd Ring® is a combination of a Turcon® based slipper seal and an energizing O-Ring. It has an interference fit which together with the squeeze of the O-Ring ensures a good sealing effect even at low pressure. At higher system pressures, the O-Ring is energized by the fluid, pushing Glyd Ring® against the sealing face with increased force.

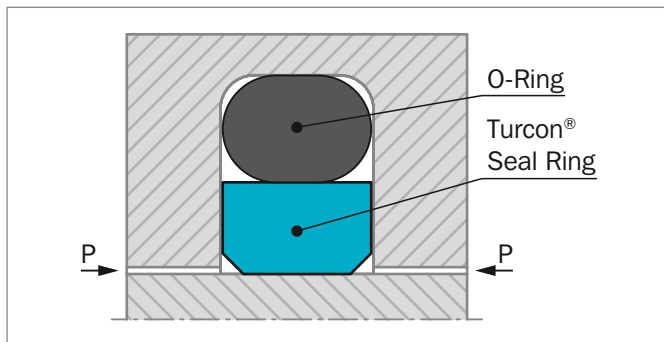


Figure 83: Turcon® Glyd Ring®

The geometry of Glyd Ring® ensures good static sealing and allows the lubricating hydrodynamic fluid film to be built under the seal in linear applications.

### ADVANTAGES

- No stick-slip effect when starting for smooth operation
- Minimum static and dynamic friction for a minimum energy loss and operating temperature
- Suitable for non lubricating fluids depending on seal material for optimum design flexibility
- High wear resistance ensures long service life
- Fits standard Stepseal® groove dimensions as well as ISO 7425-2 seal housing
- No adhesive effect to the mating surface during long period of inactivity or storage
- Suitable for most hydraulic fluids in relation with most modern hardware materials and surface finish depending on material selected.
- Suitable for environmentally friendly hydraulic fluids
- Available for all rod diameters up to 2,600 mm

### APPLICATIONS EXAMPLES

Over several decades Glyd Ring® has been successfully implemented in a large variety applications as double acting Rod seals in hydraulic components such as:

- Injection molding machines
- Machine tools
- Presses
- Handling machinery
- Valve stems
- Valves for hydraulic & pneumatic circuits.
- Servo equipment
- Hydraulic motors
- Brake booster
- Jacks

### OPERATING CONDITIONS

Glyd Ring® is recommended for linear (with a length of stroke at least twice the groove width) and helical movements.

<b>Pressure:</b>	Up to 60 MPa
<b>Speed:</b>	Up to 15 m/s
<b>Frequency:</b>	Up to 5 Hz.
<b>Temperature:</b>	-45 °C to +200 °C depending on O-Ring material
<b>Media:</b>	Mineral oil-based hydraulic fluids, flame retardant hydraulic fluids, environmentally friendly hydraulic fluids (bio-oils), phosphate ester, water, air and others, depending on the seal and O-Ring material compatibility, see Table 64.
<b>Clearance:</b>	The maximum permissible radial clearance $S_{max}$ is shown in Table 65, as a function of the operating pressure and functional diameter.

### IMPORTANT NOTE

The above data are maximum values and cannot be used at the same time, e.g. the maximum operating speed depends on material type, pressure, temperature and gap value. Temperature range also depends on media.



## NOTCHES

To assure that a rapid energizing of the seal takes place at sudden changes of pressure and direction of motion, the seal can be delivered with radial notches on both sides.

Ordering of Glyd Ring® with notches see page 203.

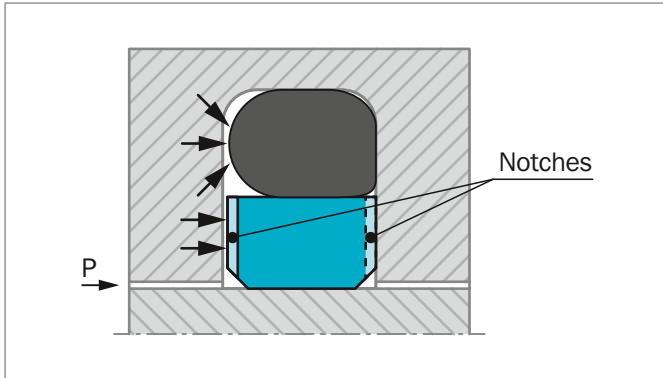


Figure 84: Turcon® Glyd Ring® with notches

## INSTALLATION INSTRUCTIONS

Glyd Ring® is installed according to information on page 37 and page 38

Closed groove installation applies same dimensions as for Turcon® Stepseal® 2K in Table 6 page 38.

## RECOMMENDED MATERIALS

The following material combinations have proven effective for hydraulic applications:

### Turcon® Glyd Ring® in Turcon® M12

All round material for light to heavy hydraulic applications with linear or helical movements in mineral oils, flame retardant hydraulic fluids, phosphate ester, bio-oils or fluids having low lubricating properties:

O-Ring:           NBR 70 Shore A    N  
                     FKM 70 Shore A    V

Set code:        M12N or M12V

### Turcon® Glyd Ring® in Turcon® T46

For media to heavy applications with linear movements in mineral oils and other media with good lubrication:

O-Ring:           NBR 70 Shore A    N  
                     FKM 70 Shore A    V

Set code:        T46N or T46V

For specific applications, all Turcon® materials are available. Other material combinations are listed in Table 64.

**Table 64: Turcon® and Zurcon® Materials for Glyd Ring®**

Material, Applications, Properties	Code	O-Ring Material Shore A	Code	O-Ring Operating Temp.* °C	Mating Surface Material	MPa max. Dynamic
<b>Turcon® M12</b> First material choice for seals in linear motion Overall improved properties For new constructions and updating For all commonly applied hydraulic fluids including fluids with low lubrication performance Lowest friction and best sliding properties Lowest wear on seals Improved absorption of abrasive contaminanants Low wear or abrasion of counter surface BAM tested Mineral fiber and Additives filled Color: Dark gray	M12	NBR 70	N	-30 to +100	Steel	50
		NBR 70 Low temp.	T	-45 to +80	Steel hardened Steel chrome plated (rod)	
		FKM 70	V	-10 to +200	Steel plated (rod) Cast iron Stainless steel Titanium	
<b>Turcon® T05</b> For lubricating fluids Also for gas service Very low friction Very good sliding and sealing properties Color: Turquoise	T05	NBR 70	N	-30 to +100	Steel	20
		NBR 70 Low temp.	T	-45 to +80	Steel, hardened Steel chrome plated (rod)	
		FKM 70	V	-10 to +200		
<b>Turcon® T08</b> For lubricating fluids and linear motion Very high compressive strength and good extrusion resistance Hard counter surfaces is recommended Bronze filled Color: Light to dark brown which may have variations in shading	T08	NBR 70	N	-30 to +100	Steel, hardened	60
		NBR 70 Low temp.	T	-45 to +80	Steel chrome plated (rod)	
		FKM 70	V	-10 to +200	Cast iron	
<b>Turcon® T10</b> For hydraulic and pneumatic For lubricating and non-lubricating fluids High extrusion resistance Good chemical resistance Not for electrically conducting fluids BAM tested. Carbon, graphite filled Color: Black	T10	NBR 70	N	-30 to +100	Steel	40
		NBR 70 Low temp.	T	-45 to +80	Steel hardened Steel chrome plated (rod)	
		FKM 70	V	-10 to +200	Stainless steel	
		EPDM 70	E**	-45 to +145		
<b>Turcon® T29</b> For all lubricating and non-lubricating fluids Good extrusion resistance Surface texture is not suitable for gas sealing Not for electrically conducting fluids Carbon fiber filled Color: Gray	T29	NBR 70	N	-30 to +100	Steel	30
		NBR 70 Low temp.	T	-45 to +80	Steel hardened Steel chrome plated (rod)	
		FKM 70	V	-10 to +200	Cast iron	
		EPDM 70	E**	-45 to +145	Stainless steel	

Table continues on next page



Material, Applications, Properties	Code	O-Ring Material Shore A	Code	O-Ring Operating Temp.* °C	Mating Surface Material	MPa max. Dynamic
<b>Turcon® T40</b> For all lubricating and non-lubricating fluids Water hydraulics Surface texture not suitable for gas sealing Carbon fiber filled Color: Gray	T40	NBR 70	N	-30 to +100	Steel	25
		NBR 70 Low temp.	T	-45 to +80	Steel hardened Steel chrome plated (rod)	
		FKM 70	V	-10 to +200	Cast iron	
		EPDM 70	E**	-45 to +145	Stainless steel Aluminum	
<b>Turcon® T46</b> For lubricated hydraulics in linear motion High compressive strength High extrusion resistance Very good sliding and wear properties BAM tested Bronze filled Color: Light to dark brown, which may have variations in shading	T46	NBR 70	N	-30 to +100	Steel hardened	50
		NBR 70 Low temp.	T	-45 to +80	Steel chrome plated (rod)	
		FKM 70	V	-10 to +200	Cast iron	
<b>Zurcon® Z53***</b> For mineral oil based fluids Very high abrasion and extrusion resistance For counter surface with rougher surface finish Limited chemical resistance. Max. working temperature 110 °C Cast polyurethane Color: Yellow to light-brown	Z53	NBR 70	N	-30 to +100	Steel	60
		NBR 70 Low temp.	T	-45 to +80	Steel hardened Steel chrome plated (rod) Cast iron Ceramic coating Stainless steel	
<b>Zurcon® Z80</b> For lubricating and non-lubricating fluids Water based fluids, air and gases Dry air pneumatics High abrasion and extrusion resistance For service in abrasive conditions and media with particles Good chemical resistance Limited temperature capability (-60 to +80 °C) UHMWPE (Ultra High Molecular Weight Polyethylene) Color: White to off-white	Z80	NBR 70	N	-30 to (+100)	Steel	35
		NBR 70 Low temp.	T	-45 to +80	Steel hardened Steel, chrome plated (rod)	
		EPDM 70	E**	-45 to (+145)	Stainless steel Aluminum Ceramic coating	

\* The O-Ring Operation Temperature is only valid in mineral hydraulic oil (except EPDM).

\*\* Material not suitable for mineral oils.

\*\*\* Max. diameter 2,200 mm

BAM: Tested by "Bundesanstalt Materialprüfung, Germany"

Highlighted materials are recommended.



## ■ Installation Recommendation

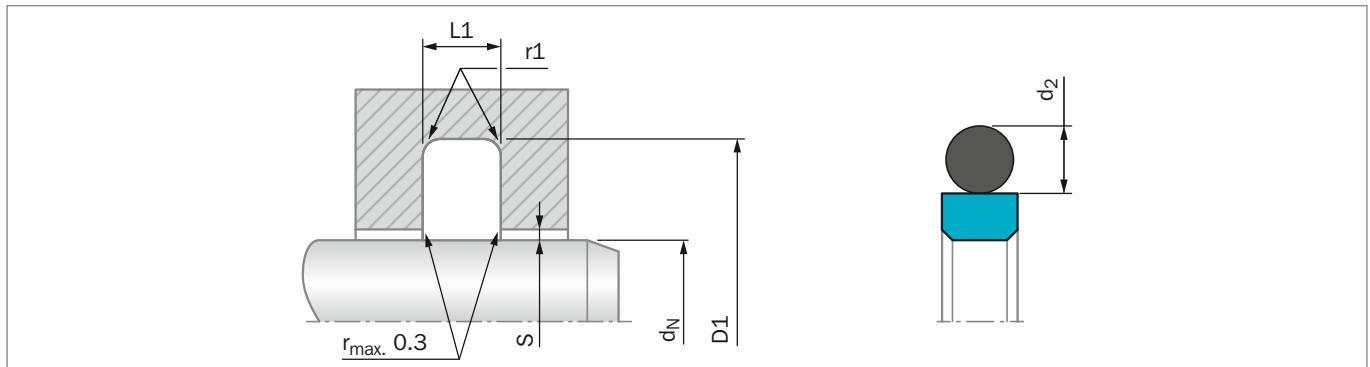


Figure 85: Installation Drawing

**Table 65: Installation Dimensions – Standard Recommendations**

Rod Diameter $d_N$ f8/h9			Groove Diameter*	Groove Width	Radius	Radial Clearance $S_{max}$ **			O-Ring Cross Section $d_2$
Series No. RG 43 Standard Application	Series No. RG 45 Light Application	Series No. RG 41 Heavy Duty Application				10 MPa	20 MPa	40 MPa	
3 - 7.9	8 - 18.9	-	$d_N + 4.9$	2.2	0.4	0.30	0.20	0.15	1.78
8 - 18.9	19 - 37.9	3 - 7.9	$d_N + 7.3$	3.2	0.6	0.40	0.25	0.15	2.62
19 - 37.9	38 - 199.9	8 - 18.9	$d_N + 10.7$	4.2	1.0	0.40	0.25	0.20	3.53
38 - 199.9	200 - 255.9	19 - 37.9	$d_N + 15.1$	6.3	1.3	0.50	0.30	0.20	5.33
200 - 255.9	256 - 649.9	38 - 199.9	$d_N + 20.5$	8.1	1.8	0.60	0.35	0.25	7.00
256 - 649.9	650 - 999.9	200 - 255.9	$d_N + 24.0$	8.1	1.8	0.60	0.35	0.25	7.00
650 - 999.9	1,000 - 1,200	256 - 649.9	$d_N + 27.3$	9.5	2.5	0.70	0.50	0.30	8.40
1,000 - 2,600***	-	650 - 999.9	$d_N + 38.0$	13.8	3.0	1.00	0.70	0.60	12.00

\* Installation with groove dimensions to ISO 7425-2 is also recommendable.

\*\* At pressures > 40 MPa use diameter tolerance H8/f8 (bore/rod) in the area of the seal or consult your local Trelleborg Sealing Solutions marketing company for alternative material or profiles.

Slydring® / Wear Rings are not applicable at very small radial clearances please consult the Slydring® catalog.

\*\*\* O-Rings with 12 mm cross section are delivered as special profile ring.

### ORDERING EXAMPLE

Turcon® Glyd Ring® complete with O-Ring, standard application:

**Series:** RG43 from Table 65

**Rod diameter:**  $d_N = 80.0$  mm

**TSS Part No.:** RG4300800 from Table 66

Select the material from Table 64. The corresponding code numbers are appended to the TSS Part No. Together these form the TSS Article Number. The TSS Article Number for all intermediate sizes can be determined by following the example.

**TSS Article No.** **RG43 0 0800 - M12 N**

Series No. \_\_\_\_\_

Type (Standard)\*\*\*\*\* \_\_\_\_\_

Rod Diameter x 10\*\*\*\*\* \_\_\_\_\_

Quality Index (Standard) \_\_\_\_\_

Material Code (Seal Ring) \_\_\_\_\_

Material Code (O-Ring) \_\_\_\_\_

\*\*\*\* For diameters  $d_N \geq 1,000.0$  mm multiply only by factor 1.

Example: RG43 for diameter  $d_N = 1,200.0$  mm

TSS Article No.: RG43**X1200** - M12N

\*\*\*\*\* Ordering Glyd Ring® with radial notches, please use suffix "N" in the fifth character, for diameter  $d_N < 1,000$  mm (Radial notches for diameter  $d_N \geq 1,000$  mm a special part number is required).





**Table 66: Installation Dimensions / TSS Part No.**

Rod Dia.	Groove Dia.	Groove Width	TSS Part No.	O-Ring Size	Rod Dia.	Groove Dia.	Groove Width	TSS Part No.	O-Ring Size
$d_N$ f8/h9	$D_1$ H9	$L_1$ +0.2			$d_N$ f8/h9	$D_1$ H9	$L_1$ +0.2		
3.0	7.9	2.2	RG4300030	4.47 x 1.78	35.0	42.3	3.2	RG4500350	37.77 x 2.62
<b>4.0</b>	<b>8.9</b>	<b>2.2</b>	<b>RG4300040</b>	<b>5.60 x 1.80</b>	35.0	45.7	4.2	RG4300350	37.69 x 3.53
<b>5.0</b>	<b>9.9</b>	<b>2.2</b>	<b>RG4300050</b>	<b>6.70 x 1.80</b>	<b>36.0</b>	<b>43.3</b>	<b>3.2</b>	<b>RG4500360</b>	<b>39.34 x 2.62</b>
<b>6.0</b>	<b>10.9</b>	<b>2.2</b>	<b>RG4300060</b>	<b>7.65 x 1.78</b>	<b>36.0</b>	<b>46.7</b>	<b>4.2</b>	<b>RG4300360</b>	<b>40.87 x 3.53</b>
7.0	11.9	2.2	RG4300070	8.75 x 1.80	38.0	48.7	4.2	RG4500380	40.87 x 3.53
<b>8.0</b>	<b>12.9</b>	<b>2.2</b>	<b>RG4500080</b>	<b>9.50 x 1.80</b>	38.0	53.1	6.3	RG4300380	43.82 x 5.33
<b>8.0</b>	<b>15.3</b>	<b>3.2</b>	<b>RG4300080</b>	<b>10.77 x 2.62</b>	39.0	49.7	4.2	RG4500390	44.04 x 3.53
<b>10.0</b>	<b>14.9</b>	<b>2.2</b>	<b>RG4500100</b>	<b>11.80 x 1.80</b>	<b>40.0</b>	<b>50.7</b>	<b>4.2</b>	<b>RG4500400</b>	<b>44.04 x 3.53</b>
<b>10.0</b>	<b>17.3</b>	<b>3.2</b>	<b>RG4300100</b>	<b>12.37 x 2.62</b>	<b>40.0</b>	<b>55.1</b>	<b>6.3</b>	<b>RG4300400</b>	<b>43.82 x 5.33</b>
<b>12.0</b>	<b>16.9</b>	<b>2.2</b>	<b>RG4500120</b>	<b>13.20 x 1.80</b>	42.0	52.7	4.2	RG4500420	47.22 x 3.53
<b>12.0</b>	<b>19.3</b>	<b>3.2</b>	<b>RG4300120</b>	<b>14.50 x 2.65</b>	42.0	57.1	6.3	RG4300420	46.99 x 5.33
<b>14.0</b>	<b>18.9</b>	<b>2.2</b>	<b>RG4500140</b>	<b>15.60 x 1.78</b>	44.0	54.7	4.2	RG4500440	47.22 x 3.53
<b>14.0</b>	<b>21.3</b>	<b>3.2</b>	<b>RG4300140</b>	<b>17.12 x 2.62</b>	44.45	59.5	6.3	RG4300444	50.17 x 5.33
15.0	19.9	2.2	RG4500150	17.17 x 1.78	<b>45.0</b>	<b>55.7</b>	<b>4.2</b>	<b>RG4500450</b>	<b>50.39 x 3.53</b>
15.0	22.3	3.2	RG4300150	18.00 x 2.65	<b>45.0</b>	<b>60.1</b>	<b>6.3</b>	<b>RG4300450</b>	<b>50.17 x 5.33</b>
<b>16.0</b>	<b>20.9</b>	<b>2.2</b>	<b>RG4500160</b>	<b>17.17 x 1.78</b>	48.0	58.7	4.2	RG4500480	51.50 x 3.55
<b>16.0</b>	<b>23.3</b>	<b>3.2</b>	<b>RG4300160</b>	<b>18.72 x 2.62</b>	48.0	63.1	6.3	RG4300480	53.34 x 5.33
<b>18.0</b>	<b>22.9</b>	<b>2.2</b>	<b>RG4500180</b>	<b>19.00 x 1.80</b>	<b>50.0</b>	<b>60.7</b>	<b>4.2</b>	<b>RG4500500</b>	<b>53.57 x 3.53</b>
<b>18.0</b>	<b>25.3</b>	<b>3.2</b>	<b>RG4300180</b>	<b>20.29 x 2.62</b>	<b>50.0</b>	<b>65.1</b>	<b>6.3</b>	<b>RG4300500</b>	<b>56.52 x 5.33</b>
19.0	29.7	4.2	RG4300190	23.40 x 3.53	50.8	61.5	4.2	RG4500508	53.57 x 3.53
<b>20.0</b>	<b>27.3</b>	<b>3.2</b>	<b>RG4500200</b>	<b>21.89 x 2.62</b>	50.8	65.9	6.3	RG4300508	56.52 x 5.33
<b>20.0</b>	<b>30.7</b>	<b>4.2</b>	<b>RG4300200</b>	<b>23.40 x 3.53</b>	52.0	62.7	4.2	RG4500520	56.74 x 3.53
<b>22.0</b>	<b>29.3</b>	<b>3.2</b>	<b>RG4500220</b>	<b>25.07 x 2.62</b>	52.0	67.1	6.3	RG4300520	56.52 x 5.33
<b>22.0</b>	<b>32.7</b>	<b>4.2</b>	<b>RG4300220</b>	<b>26.58 x 3.53</b>	54.0	69.1	6.3	RG4300540	59.69 x 5.33
24.0	31.3	3.2	RG4500240	26.64 x 2.62	55.0	65.7	4.2	RG4500550	59.92 x 3.53
<b>25.0</b>	<b>32.3</b>	<b>3.2</b>	<b>RG4500250</b>	<b>28.24 x 2.62</b>	55.0	70.1	6.3	RG4300550	59.69 x 5.33
<b>25.0</b>	<b>35.7</b>	<b>4.2</b>	<b>RG4300250</b>	<b>29.75 x 3.53</b>	<b>56.0</b>	<b>66.7</b>	<b>4.2</b>	<b>RG4500560</b>	<b>59.92 x 3.53</b>
25.4	32.7	3.2	RG4500254	28.24 x 2.62	<b>56.0</b>	<b>71.1</b>	<b>6.3</b>	<b>RG4300560</b>	<b>62.87 x 5.33</b>
25.4	36.1	4.2	RG4300254	29.75 x 3.53	58.0	73.1	6.3	RG4300580	62.87 x 5.33
26.0	33.3	3.2	RG4500260	28.24 x 2.62	60.0	70.7	4.2	RG4500600	63.09 x 3.53
26.0	36.7	4.2	RG4300260	29.75 x 3.53	60.0	75.1	6.3	RG4300600	66.04 x 5.33
27.0	34.3	3.2	RG4500270	29.82 x 2.62	<b>63.0</b>	<b>73.7</b>	<b>4.2</b>	<b>RG4500630</b>	<b>66.27 x 3.53</b>
<b>28.0</b>	<b>35.3</b>	<b>3.2</b>	<b>RG4500280</b>	<b>29.82 x 2.62</b>	<b>63.0</b>	<b>78.1</b>	<b>6.3</b>	<b>RG4300630</b>	<b>69.22 x 5.33</b>
<b>28.0</b>	<b>38.7</b>	<b>4.2</b>	<b>RG4300280</b>	<b>32.92 x 3.53</b>	65.0	80.1	6.3	RG4300650	69.22 x 5.33
28.575	35.9	3.2	RG4500286	31.42 x 2.62	67.0	77.7	4.2	RG4500670	72.62 x 3.53
29.0	36.3	3.2	RG4500290	31.42 x 2.62	<b>70.0</b>	<b>80.7</b>	<b>4.2</b>	<b>RG4500700</b>	<b>75.79 x 3.53</b>
30.0	37.3	3.2	RG4500300	32.99 x 2.62	<b>70.0</b>	<b>85.1</b>	<b>6.3</b>	<b>RG4300700</b>	<b>75.57 x 5.33</b>
30.0	40.7	4.2	RG4300300	34.52 x 3.53	72.0	82.7	4.2	RG4500720	75.79 x 3.53
<b>32.0</b>	<b>39.3</b>	<b>3.2</b>	<b>RG4500320</b>	<b>34.59 x 2.62</b>	75.0	85.7	4.2	RG4500750	78.97 x 3.53
<b>32.0</b>	<b>42.7</b>	<b>4.2</b>	<b>RG4300320</b>	<b>36.09 x 3.53</b>	75.0	90.1	6.3	RG4300750	81.92 x 5.33





Rod Dia.	Groove Dia.	Groove Width	TSS Part No.	O-Ring Size	Rod Dia.	Groove Dia.	Groove Width	TSS Part No.	O-Ring Size
$d_N$ f8/h9	$D_1$ H9	$L_1$ +0.2			$d_N$ f8/h9	$D_1$ H9	$L_1$ +0.2		
<b>80.0</b>	<b>90.7</b>	<b>4.2</b>	<b>RG4500800</b>	<b>85.32 x 3.53</b>	165.0	180.1	6.3	RG4301650	170.82 x 5.33
<b>80.0</b>	<b>95.1</b>	<b>6.3</b>	<b>RG4300800</b>	<b>85.09 x 5.33</b>	170.0	180.7	4.2	RG4501700	177.39 x 3.53
83.0	93.7	4.2	RG4500830	88.49 x 3.53	170.0	185.1	6.3	RG4301700	177.17 x 5.33
85.0	100.1	6.3	RG4300850	91.44 x 5.33	175.0	190.1	6.3	RG4301750	183.52 x 5.33
86.0	96.7	4.2	RG4500860	91.67 x 3.53	<b>180.0</b>	<b>190.7</b>	<b>4.2</b>	<b>RG4501800</b>	<b>183.74 x 3.53</b>
<b>90.0</b>	<b>100.7</b>	<b>4.2</b>	<b>RG4500900</b>	<b>94.84 x 3.53</b>	<b>180.0</b>	<b>195.1</b>	<b>6.3</b>	<b>RG4301800</b>	<b>183.52 x 5.33</b>
<b>90.0</b>	<b>105.1</b>	<b>6.3</b>	<b>RG4300900</b>	<b>94.62 x 5.33</b>	<b>180.0</b>	<b>200.5</b>	<b>8.1</b>	<b>RG4101800</b>	<b>189.87 x 7.00</b>
92.0	102.7	4.2	RG4500920	98.02 x 3.53	190.0	200.7	4.2	RG4501900	196.44 x 3.53
95.0	105.7	4.2	RG4500950	101.19 x 3.53	190.0	205.1	6.3	RG4301900	196.22 x 5.33
95.0	110.1	6.3	RG4300950	100.97 x 5.33	<b>200.0</b>	<b>215.1</b>	<b>6.3</b>	<b>RG4502000</b>	<b>208.92 x 5.33</b>
<b>100.0</b>	<b>110.7</b>	<b>4.2</b>	<b>RG4501000</b>	<b>104.37 x 3.53</b>	<b>200.0</b>	<b>220.5</b>	<b>8.1</b>	<b>RG4302000</b>	<b>208.90 x 7.00</b>
<b>100.0</b>	<b>115.1</b>	<b>6.3</b>	<b>RG4301000</b>	<b>107.32 x 5.33</b>	205.0	220.1	6.3	RG4502050	208.92 x 5.33
101.6	112.3	4.2	RG4501016	107.54 x 3.53	210.0	225.1	6.3	RG4502100	215.27 x 5.33
101.6	116.7	6.3	RG4301016	107.32 x 5.33	<b>220.0</b>	<b>235.1</b>	<b>6.3</b>	<b>RG4502200</b>	<b>227.97 x 5.33</b>
104.7	119.8	6.3	RG4301047	110.49 x 5.33	<b>220.0</b>	<b>240.5</b>	<b>8.1</b>	<b>RG4302200</b>	<b>227.97 x 7.00</b>
105.0	115.7	4.2	RG4501050	110.72 x 3.53	230.0	245.1	6.3	RG4502300	234.32 x 5.33
105.0	120.1	6.3	RG4301050	110.49 x 5.33	230.0	250.5	8.1	RG4302300	240.67 x 7.00
<b>110.0</b>	<b>120.7</b>	<b>4.2</b>	<b>RG4501100</b>	<b>113.89 x 3.53</b>	240.0	255.1	6.3	RG4502400	247.02 x 5.33
<b>110.0</b>	<b>125.1</b>	<b>6.3</b>	<b>RG4301100</b>	<b>116.84 x 5.33</b>	240.0	260.5	8.1	RG4302400	253.37 x 7.00
<b>110.0</b>	<b>130.5</b>	<b>8.1</b>	<b>RG4101100</b>	<b>116.84 x 7.00</b>	<b>250.0</b>	<b>270.5</b>	<b>8.1</b>	<b>RG4302500</b>	<b>266.07 x 7.00</b>
112.0	127.1	6.3	RG4301120	116.84 x 5.33	260.0	284.0	8.1	RG4302600	266.07 x 7.00
115.0	125.7	4.2	RG4501150	120.24 x 3.53	270.0	294.0	8.1	RG4302700	278.77 x 7.00
115.0	130.1	6.3	RG4301150	120.02 x 5.33	270.0	290.5	8.1	RG4502700	278.77 x 7.00
118.0	133.1	6.3	RG4301180	123.19 x 5.33	275.0	299.0	8.1	RG4302750	291.47 x 7.00
120.0	130.7	4.2	RG4501200	123.42 x 3.53	<b>280.0</b>	<b>304.0</b>	<b>8.1</b>	<b>RG4302800</b>	<b>291.47 x 7.00</b>
120.0	135.1	6.3	RG4301200	126.37 x 5.33	<b>280.0</b>	<b>300.5</b>	<b>8.1</b>	<b>RG4502800</b>	<b>291.47 x 7.00</b>
<b>125.0</b>	<b>135.7</b>	<b>4.2</b>	<b>RG4501250</b>	<b>129.77 x 3.53</b>	290.0	314.0	8.1	RG4302900	304.17 x 7.00
<b>125.0</b>	<b>140.1</b>	<b>6.3</b>	<b>RG4301250</b>	<b>129.54 x 5.33</b>	290.0	310.5	8.1	RG4502900	304.17 x 7.00
129.0	139.7	4.2	RG4501290	132.94 x 3.53	300.0	324.0	8.1	RG4303000	316.87 x 7.00
130.0	140.7	4.2	RG4501300	136.12 x 3.53	310.0	334.0	8.1	RG4303100	316.87 x 7.00
130.0	145.1	6.3	RG4301300	135.89 x 5.33	310.0	330.5	8.1	RG4503100	316.87 x 7.00
135.0	145.7	4.2	RG4501350	139.29 x 3.53	<b>320.0</b>	<b>344.0</b>	<b>8.1</b>	<b>RG4303200</b>	<b>329.57 x 7.00</b>
135.0	150.1	6.3	RG4301350	142.24 x 5.33	330.0	354.0	8.1	RG4303300	342.27 x 7.00
<b>140.0</b>	<b>150.7</b>	<b>4.2</b>	<b>RG4501400</b>	<b>145.64 x 3.53</b>	340.0	364.0	8.1	RG4303400	354.97 x 7.00
<b>140.0</b>	<b>155.1</b>	<b>6.3</b>	<b>RG4301400</b>	<b>145.42 x 5.33</b>	350.0	374.0	8.1	RG4303500	367.67 x 7.00
145.0	155.7	4.2	RG4501450	148.82 x 3.53	350.0	370.5	8.1	RG4503500	354.97 x 7.00
145.0	160.1	6.3	RG4301450	151.77 x 5.33	<b>360.0</b>	<b>384.0</b>	<b>8.1</b>	<b>RG4303600</b>	<b>367.67 x 7.00</b>
150.0	165.1	6.3	RG4301500	158.12 x 5.33	370.0	394.0	8.1	RG4303700	380.37 x 7.00
<b>160.0</b>	<b>175.1</b>	<b>6.3</b>	<b>RG4301600</b>	<b>164.47 x 5.33</b>	370.0	390.5	8.1	RG4503700	380.37 x 7.00
<b>160.0</b>	<b>180.5</b>	<b>8.1</b>	<b>RG4101600</b>	<b>170.82 x 7.00</b>	380.0	404.0	8.1	RG4303800	393.07 x 7.00



Rod Dia.	Groove Dia.	Groove Width	TSS Part No.	O-Ring Size
$d_N$ f8/h9	$D_1$ H9	$L_1$ +0.2		
390.0	414.0	8.1	RG4303900	405.26 x 7.00
400.0	424.0	8.1	RG4304000	417.96 x 7.00
400.0	420.5	8.1	RG4504000	405.26 x 7.00
410.0	434.0	8.1	RG4304100	417.96 x 7.00
420.0	444.0	8.1	RG4304200	430.66 x 7.00
430.0	454.0	8.1	RG4304300	443.36 x 7.00
440.0	464.0	8.1	RG4304400	456.06 x 7.00
450.0	474.0	8.1	RG4304500	468.76 x 7.00
460.0	484.0	8.1	RG4304600	468.76 x 7.00
470.0	494.0	8.1	RG4304700	481.38 x 7.00
480.0	504.0	8.1	RG4304800	494.16 x 7.00
490.0	514.0	8.1	RG4304900	506.86 x 7.00
500.0	524.0	8.1	RG4305000	506.86 x 7.00
510.0	534.0	8.1	RG4305100	532.26 x 7.00
520.0	544.0	8.1	RG4305200	532.26 x 7.00
530.0	554.0	8.1	RG4305300	557.66 x 7.00
540.0	564.0	8.1	RG4305400	557.66 x 7.00
550.0	574.0	8.1	RG4305500	557.66 x 7.00
560.0	584.0	8.1	RG4305600	582.68 x 7.00
570.0	594.0	8.1	RG4305700	582.68 x 7.00
570.0	594.0	8.1	RG4305700	582.68 x 7.00
580.0	604.0	8.1	RG4305800	608.08 x 7.00
590.0	614.0	8.1	RG4305900	608.08 x 7.00
600.0	624.0	8.1	RG4306000	608.08 x 7.00
610.0	634.0	8.1	RG4306100	633.48 x 7.00
620.0	644.0	8.1	RG4306200	633.48 x 7.00
630.0	654.0	8.1	RG4306300	658.88 x 7.00
640.0	664.0	8.1	RG4306400	658.88 x 7.00
650.0	677.3	9.5	RG4306500	663.00 x 8.40
660.0	687.3	9.5	RG4306600	673.00 x 8.40
670.0	697.3	9.5	RG4306700	683.00 x 8.40
680.0	707.3	9.5	RG4306800	693.00 x 8.40
688.0	715.3	9.5	RG4306880	701.00 x 8.40
690.0	717.3	9.5	RG4306900	703.00 x 8.40
700.0	724.0	8.1	RG4507000	712.00 x 7.00
710.0	737.3	9.5	RG4307100	723.00 x 8.40
740.0	767.3	9.5	RG4307400	753.00 x 8.40
760.0	784.0	8.1	RG4507600	772.00 x 7.00
770.0	797.3	9.5	RG4307700	783.00 x 8.40
800.0	827.3	9.5	RG4308000	813.00 x 8.40

Rod Dia.	Groove Dia.	Groove Width	TSS Part No.	O-Ring Size
$d_N$ f8/h9	$D_1$ H9	$L_1$ +0.2		
850.0	877.3	9.5	RG4308500	863.00 x 8.40
870.0	897.3	9.5	RG4308700	883.00 x 8.40
900.0	927.3	9.5	RG4309000	913.00 x 8.40
910.0	937.3	9.5	RG4309100	923.00 x 8.40
950.0	977.3	9.5	RG4309500	963.00 x 8.40
960.0	987.3	9.5	RG4309600	973.00 x 8.40
1,000.0	1,027.3	9.5	RG45X1000	1,013.00 x 8.40
1,000.0	1,038.0	13.8	RG43X1000	1,016.00 x 12.00
1,050.0	1,077.3	9.5	RG45X1050	1,063.00 x 8.40
1,050.0	1,088.0	13.8	RG43X1050	1,066.00 x 12.00
1,100.0	1,138.0	13.8	RG43X1100	1,116.00 x 12.00
1,160.0	1,187.3	9.5	RG45X1160	1,173.00 x 8.40
1,200.0	1,227.3	9.5	RG45X1200	1,213.00 x 8.40
1,200.0	1,238.0	13.8	RG43X1200	1,216.00 x 12.00
1,300.0	1,327.3	9.5	RG45X1300	1,313.00 x 8.40
1,300.0	1,338.0	13.8	RG43X1300	1,316.00 x 12.00
1,500.0	1,527.3	9.5	RG45X1500	1,513.00 x 8.40
1,500.0	1,538.0	13.8	RG43X1500	1,516.00 x 12.00
1,600.0	1,638.0	13.8	RG43X1600	1,616.00 x 12.00
2,000.0	2,038.0	13.8	RG43X2000	2,016.00 x 12.00
2,600.0	2,638.0	13.8	RG43X2600	2,616.00 x 12.00

The rod diameters in **bold** type are in accordance with the recommendations of ISO 3320.  
 Other dimensions and all intermediate sizes up to 2,600 mm diameter, including imperial (inch) sizes converted to mm, can be supplied.  
 All O-Rings with 12 mm cross section are delivered as special profile ring.