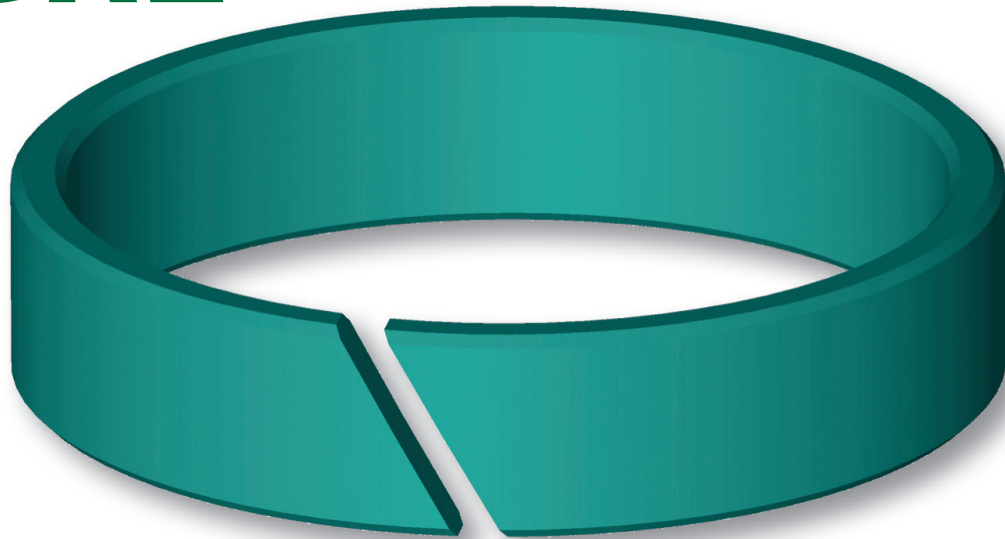


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MATERIAL



Type
Polyester resin in composite fabric

Designation
TEXLITE

FIELD OF APPLICATION



Fluids
Hydraulic oils (mineral oil based)
For other fluids contact our technical department

SURFACE ROUGHNESS

Dynamic surface	Ra ≤ 0.3 μm	Rt ≤ 2.5 μm
Static surface	Ra ≤ 2 μm	Rt ≤ 10 μm

CHOICE OF GUIDE RING WIDTH

A rough estimate of guide width can be calculated with the following formula:

$$h_{mm} \geq \frac{F_N \times k}{p_{N/mm^2} \times d_{mm}}$$

- where
- h_{mm} • Guide ring width in mm
 - F_N • Radial load in N
 - k • Safety factor (generally 2)
 - d_{mm} • Bore/rod diameter in mm
 - p_{N/mm^2} • Surface pressure N/mm²
100 a 20 °C
75 a 70 °C
50 a 120 °C

Before assembly good cleanliness and lubrication are recommended.

The above data are maximum values, they may be maintained for short periods and can not be used at the same time simultaneously.

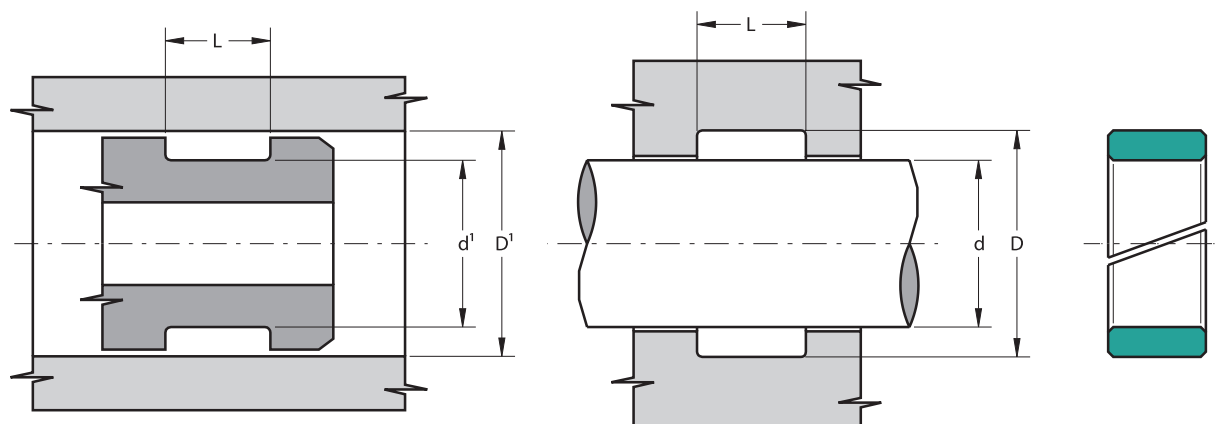
The Aston Seals GRL type guide rings have been developed to substitute traditional bronze guide guides I hydraulic cylinder. They guide the rod or the piston and prevent metallic contact with the cylinder when radial forces act perpendicular to the direction of movement.

Since GRL guide rings are machined form tube, the thickness can be very precise for high guiding performance.

The compound used for these guides is a thermosetting polymer reinforced by polyester mesh, PTFE and MoS₂, characterizing by excellent heavy load resistance, rigidity, hardness, and high service temperature.

- Excellent resistance to heavy loads
- High precision of guiding
- Good resistance to "diesel effect"
- Extended service life
- Dimension suitable for both rod and piston
- Simple design of groove and assembly
- Low static and dynamic friction (also without lubrication)
- Good mechanical stability at high temperature
- Excellent for rotary and oscillatory motion

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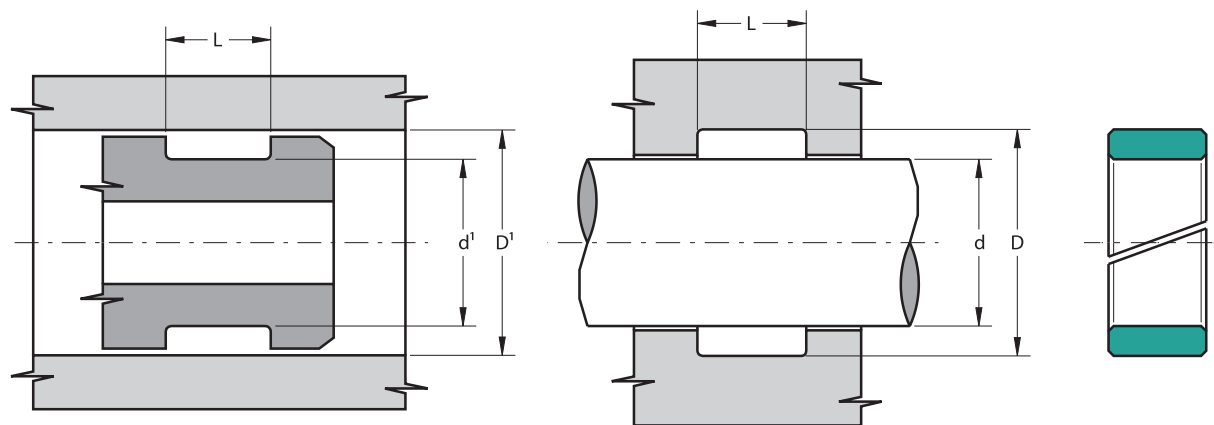


Part.	$d^{1\ h8}$ d_{f8}	$D^{1\ H9}$ D_{H8}	$L_{+0.2}$
GRL 20 25 9.7	20	25	9.7
GRL 25 30 9.7	25	30	9.7
GRL 27 32 9.7	27	32	9.7
GRL 30 35 9.7	30	35	9.7
GRL 35 40 9.7	35	40	9.7
GRL 36 41 9.7	36	41	9.7
GRL 36 41 15	36	41	15.0
GRL 37 42 9.7	37	42	9.7
GRL 40 45 9.7	40	45	9.7
GRL 45 50 9.7	45	50	9.7
GRL 50 55 9.7	50	55	9.7
GRL 50 55 15	50	55	15.0
GRL 55 60 9.7	55	60	9.7
GRL 55 60 15	55	60	15.0
GRL 56 61 9.7	56	61	9.7
GRL 58 63 9.7	58	63	9.7
GRL 58 63 15	58	63	15.0
GRL 60 65 9.7	60	65	9.7
GRL 60 65 15	60	65	15.0
GRL 63 68 9.7	63	68	9.7
GRL 65 70 9.7	65	70	9.7
GRL 65 70 15	65	70	15.0
GRL 70 75 9.7	70	75	9.7
GRL 70 75 15	70	75	15.0

Part.	$d^{1\ h8}$ d_{f8}	$D^{1\ H9}$ D_{H8}	$L_{+0.2}$
GRL 75 80 9.7	75	80	9.7
GRL 75 80 15	75	80	15.0
GRL 80 85 9.7	80	85	9.7
GRL 80 85 15	80	85	15.0
GRL 85 90 9.7	85	90	9.7
GRL 85 90 15	85	90	15.0
GRL 90 95 9.7	90	95	9.7
GRL 90 95 15	90	95	15.0
GRL 94 99 9.7	94	99	9.7
GRL 95 100 9.7	95	100	9.7
GRL 95 100 15	95	100	15.0
GRL 100 105 9.7	100	105	9.7
GRL 100 105 15	100	105	15.0
GRL 105 110 9.7	105	110	9.7
GRL 105 110 15	105	110	15.0
GRL 110 115 9.7	110	115	9.7
GRL 110 115 15	110	115	15.0
GRL 115 120 9.7	115	120	9.7
GRL 115 120 15	115	120	15.0
GRL 120 125 9.7	120	125	9.7
GRL 120 125 15	120	125	15.0
GRL 125 130 9.7	125	130	9.7
GRL 125 130 15	125	130	15.0
GRL 130 135 9.7	130	135	9.7

Part.	$d^{1\ h8}$ d_{f8}	$D^{1\ H9}$ D_{H8}	$L_{+0.2}$
GRL 130 135 15	130	135	15.0
GRL 135 140 9.7	135	140	9.7
GRL 135 140 15	135	140	15.0
GRL 140 145 9.7	140	145	9.7
GRL 140 145 15	140	145	15.0
GRL 145 150 9.7	145	150	9.7
GRL 145 150 15	145	150	15.0
GRL 150 155 9.7	150	155	9.7
GRL 150 155 15	150	155	15.0
GRL 155 160 9.7	155	160	9.7
GRL 155 160 15	155	160	15.0
GRL 160 165 9.7	160	165	9.7
GRL 160 165 15	160	165	15.0
GRL 165 170 15	165	170	15.0
GRL 170 175 9.7	170	175	9.7
GRL 170 175 15	170	175	15.0
GRL 175 180 9.7	175	180	9.7
GRL 175 180 15	175	180	15.0
GRL 180 185 9.7	180	185	9.7
GRL 180 185 15	180	185	15.0
GRL 185 190 9.7	185	190	9.7
GRL 185 190 15	185	190	15.0
GRL 190 195 15	190	195	15.0
GRL 195 200 9.7	195	200	9.7

GRL



Part.	d'_{h8} d_{f8}	D'_{H9} D_{H8}	$L_{+0.2}$
GRL 195 200 15	195	200	15.0
GRL 200 205 15	200	205	15.0
GRL 240 245 15	240	245	15.0
GRL 255 260 15	255	260	15.0

