Garlock
An ENPRO Company

LUBRIKUP®

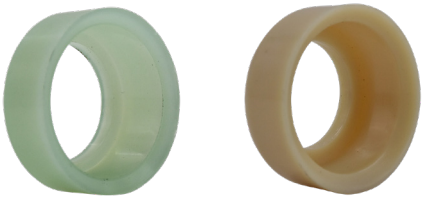
Fully Molded Cups and Packing



Valve Cups



LUBRIKUP® Valve Cups are made with high quality materials to give you the longest lasting and most reliable product under the toughest pumping conditions. Available in API, Lip-Type and our original Wood-Type design, LUBRIKUP® Valve Cups will hold up to your application and won't lose their shape.



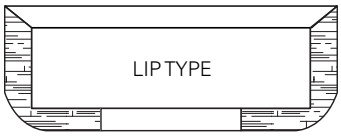
RECOMMENDED NUMBER OF VALVE CUPS BY WELL DEPTH

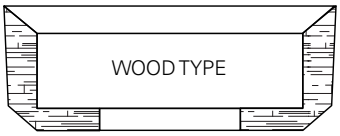
WELL DEPTH (FT.)	NUMBER OF CUPS
300-1000	4 or 6
1000-2000	8
2000-3500	10
3500-4500	12
4500-5500	14
Over 5500	16

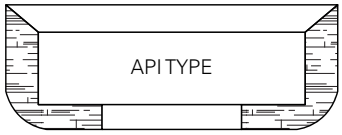
WHEN TO USE SPECIFIC CUP HARDNESSES

SOFT	MEDIUM	HARD
Shallow wells <750ft at low pressures, high oil-to-water ratios, and light fluids with low viscosity	Well depths 750-2000ft at medium pressures, moderate oil-to-water ratios, and medium viscosity fluids	Deep wells >2000ft at high pressures, low oil-to-water ratios, and heavy fluids with high viscosity

	PREMIUM GRADE		
Name:	**Lo-Friction**		
Composition:	Nylon Plastic (L)		
Style:	MS-15-L	24-L	500-L*
Media:	For sweet and sour crude, corrosive chemicals and salt water		
Temperature:	-30˚ to 300˚F		
Hardness:	MEDIUM	SEMI-HARD	HARD
High Speeds:	Great	Great	Excellent
Abrasive:	Fair	Fair	Good
Color:	Tan	Green	Gray
Stripe**:	-	-	-







**Style 500-L has a built -in lubricant for improved performance in high speeds*

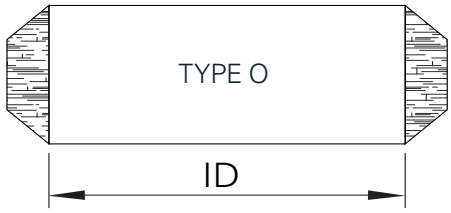
Seating Cups & Rings

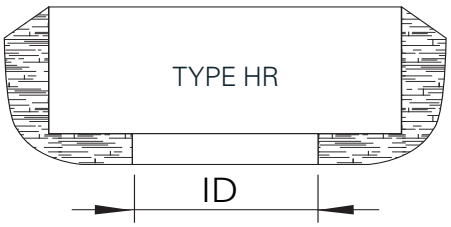


Precision made with quality ingredients, LUBRIKUP® Seating Cups & Rings will give you the performance you are looking for. Type HR Seating Cups are compatible with API standards and Type O Seating Rings are designed without the clamping flange. LUBRIKUP® Seating Cups & Rings offer the reliability you expect and are available in most popular sizes.



	PREMIUM GRADE	
Name:	**Lo-Friction**	
Composition:	Nylon Plastic (L)	
Style:	100-L	500-L*
Media:	For sweet and sour crude, corrosive chemicals and salt water	
Temperature:	-30˚ to 250˚F	-30˚ to 300˚F
Hardness:	HARD	HARD
High Speeds:	Great	Excellent
Abrasive:	Good	Good
Color:	White	Gray
Stripe**:	-	-



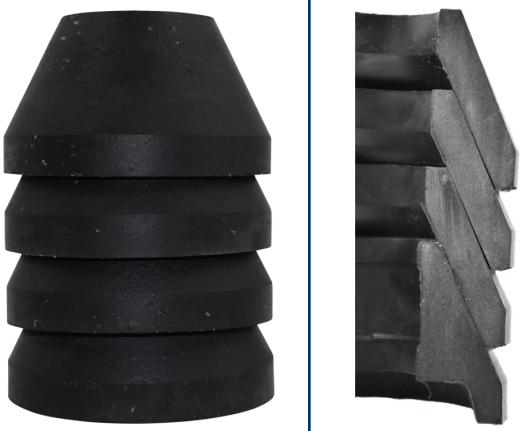


**Style 500-L has a built -in lubricant for improved performance in high speeds*

CONE PACKING

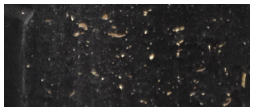
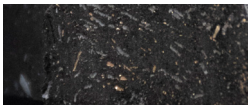
Your stuffing box is only as good as the packing in it, so it's critical to use high performance, long lasting seals. Garlock is an industrial sealing expert with a focus on quality and performance so you get peace of mind that your packing will last.

Offered in 3 material options: Utility Grade, Performance Grade and Premium Grade Rubber. There are also 3 available upgrades to improve the performance of the rubber: brass flakes (DURAGOLD™), PTFE flakes, and brass & PTFE flakes. Cone Packing is typically used in single and dual pack cone boxes* and is available in all polished rods sizes 1" through 1-3/4". Standard set configuration is split and has 3 top cones and 1 bottom cone (4 cone set), but solid rings, 5 cone sets and individually packaged rings are also available.



	UTILITY GRADE	PERFORMANCE GRADE		PREMIUM GRADE
Name:	**Economy**	**Regular**	**Plus**	**DURATUFF®**
Composition:	Rubber Blend	Proprietary Rubber with Graphite	Nitrile Rubber	HNBR Rubber
Base Style:	6992	6031	6050	6444
with Brass	N/A	6433 (DURAGOLD)	N/A	NA
with PTFE	N/A	6222	N/A	NA
with Brass & PTFE	N/A	6732	N/A	NA
Temperature:	-20˚ to 250˚F	-20˚ to 250˚F	-20˚ to 250˚F	-30˚ to 325˚F (350˚F in steam)
Media:	For sweet crude with high oil-to-water ratios and low abrasive content	For sweet crude with high oil-to-water ratios and low abrasive content	For steam, sweet crude with high oil-to-water ratios and low abrasive content	For heavy crude with high oil-to-water ratios, abrasives, steam, CO_2, and <5% H_2S
Abrasives:	Fair	Good	Good	Great

UPGRADES TO EXTEND THE LIFE OF THE PACKING. AVAILABLE WITH OUR REGULAR GRADE MATERIAL.

ADD BRASS FLAKES:	ADD PTFE FLAKES:	ADD BRASS & PTFE FLAKES:
For heavy or viscous oil, DURAGOLD™ eliminates salt, wax and corrosive material build up on the polish rod	Increases lubricity for high speed, long stroke and high water cut pumping units, plus reduces polish rod noise in noise-sensitive areas.	Benefits of both - increases lubricity and eliminates foreign material buildup
		

**"Low E" boxes typically use a set of Cone Packing and a set of FSRP Packing.*

FLUID-SEAL™ CONE PACKING (FSCP)

The sensational performance of our FLUID-SEAL™ Rod Packing is available in cone-type stuffing boxes. FSCP uses pressure actuated sealing technology where the Center Rings begin sealing immediately and then flare open under pressure and ensure a tight seal. Compared to traditional Cone Packing, FSCP holds rod lubrication, prevents slippage and reduces rod contact by 33%; greatly reducing friction and increasing rod and packing life. This packing should not be overtightened, for best results start finger tight and adjust as needed.

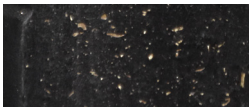
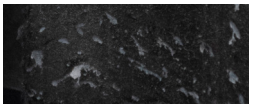
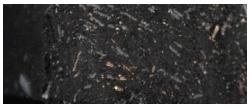
Offered in our Performance and Premium Grade materials, there are also 3 available upgrades: brass flakes (DURAGOLD™), PTFE flakes, and brass & PTFE flakes. FSCP is available in polished rod sizes 1" through 1-3/4". The standard packing configuration is split rings with 1 Bottom Ring, 4 Center rings, and 1 Top Cone, however solid rings and individually packaged rings are also available.





	PERFORMANCE GRADE	PREMIUM GRADE	
Name:	**Regular**	**DURATUFF®**	**Extreme**
Composition:	Nitrile Rubber Reinforced with Fabric	HNBR Rubber Reinforced with Fabric	PTFE Reinforced with Aramid Fabric & HNBR Rubber Reinforced with Fabric
Base Style:	6031/435	6444/544	7910/544/6444/7600
with Brass:	6433/435 (DURAGOLD™)	6574/544	N/A
with PTFE:	6222/435	6572/544	N/A
with Brass & PTFE	6732/435	6577/544	N/A
Temperature:	-20˚ to 250˚F	-30˚ to 325˚F (350˚F in stream)	-30˚ to 400˚F
Media:	For sweet crude with high oil-to-water ratios and low abrasive content	For heavy crude with high oil-to-water ratios, abrasives, steam, CO_2, and <5% H_2S	For strong abrasives, steam, steam injection, high water cut (>90%), CO_2, and <30% H_2S
Abrasives:	Good	Great	Excellent

UPGRADES FOR TOP AND BOTTOM RINGS TO EXTEND THE LIFE OF THE PACKING. AVAILABLE WITH OUR REGULAR GRADE MATERIAL. NOTE THAT CENTER RINGS HAVE FABRIC REINFORCEMENT AND WILL NOT RECEIVE THE ADDERS LISTED BELOW.

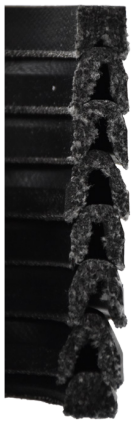
ADD BRASS FLAKES:	ADD PTFE FLAKES:	ADD BRASS & PTFE FLAKES:
For heavy or viscous oil, DURAGOLD™ eliminates salt, wax and corrosive material build up on the polish rod	Increases lubricity for high speed, long stroke and high water cut pumping units, plus reduces polish rod noise in noise-sensitive areas.	Benefits of both - increases lubricity and eliminates foreign material buildup
		

FLUID-SEAL™ ROD PACKING (FSRP)

FLUID-SEAL™ Rod Packing incorporates pressure actuated sealing technology where the Center Rings begin sealing immediately and then flare open under pressure and ensure a tight seal. This packing should not be overtightened, for best results start finger tight and adjust as needed.

Designed for higher pressures and low emissions boxes, this premium packing is durable, long lasting and will hold up to even the toughest applications. Offered in our Performance and Premium Grade material, this product is available in all polished rod sizes. The packing is available in split or solid with a standard configuration of 1 Male (bottom ring), multiple Center rings, and 1 Female (top ring), however individually packaged rings are available.





	PERFORMANCE GRADE	PREMIUM GRADE	
Name:	**Regular**	**DURATUFF®**	**Extreme**
Composition:	Nitrile Rubber Reinforced with Fabric	HNBR Rubber Reinforced with Fabric	PTFE Reinforced with Aramid Fabric & HNBR Rubber Reinforced with Fabric
Style:	435	544	7910/544/7600
Temperature:	-20˚ to 250˚F	-30˚ to 325˚F (350˚F in stream)	-30˚ to 400˚F
Media:	For sweet crude with high oil-to-water ratios and low abrasive content	For heavy crude with high oil-to-water ratios, abrasives, steam, CO_2, and <5% H_2S	For strong abrasives, steam, steam injection, high water cut (>90%), CO_2, and <30% H_2S
Abrasives:	Good	Great	Excellent

PRESSURE ACTUATED (PA) RINGS

LUBRIKUP® "PA" rings give superior service in pressure actuated plungers, and can be installed without special tools. Field tests have shown excellent life and high pump efficiency.

Available in 2 precision molded hard nylon materials, Performance Grade Style 100-L is the standard product and our Style 500-L is the Premium Grade product with Molybdenum Disulphide added as a built-in lubricant for improved performance in high speeds.



	PERFORMANCE GRADE	PREMIUM GRADE
Name:	**Lo-Friction**	**Lo-Friction Plus**
Composition:	Nylon Plastic	Nylon Plastic with built-in lubricant
Style:	100-L	500-L
Temperature:	-30˚ to 250˚F	-30˚ to 300˚F
Media:	For sweet and sour crude, salt water, and corrosive chemicals	For sweet and sour crude, salt water, and corrosive chemicals
Abrasives:	Good	Good
High Speed:	Great	Excellent
Color:	Purple	Gray

COMPOSITION RINGS

LUBRIKUP® Composition Rings are specially compounded for oil well pumping and are formulated to resist bloom which creates unnatural swell. Each ring is precision ground to assure uniformity of bearing contact in the precision barrel tube or working barrel, resulting in long lasting performance.

Composition Rings are available in 2 Premium Grade materials both made of 5 plies of material: Type "B" which is a natural rubber with cotton reinforcement, and Resistoil which is Neoprene with cotton reinforcement. Both materials are available in split and flange form, in most common sizes.



	PREMIUM GRADE	
Name:	**Type "B"**	**Resistoil**
Composition:	Natural Rubber with Cotton Reinforcement	Neoprene Rubber with Cotton Reinforcement
Style:	1929	1773
Temperature:	-40˚ to 200˚F	-40˚ to 250˚F
Media:	For sweet crude and salt water	For sweet crude and salt water
Abrasives:	Fair	Good
Color:	Tan	Black

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