

LUBRIKUP®

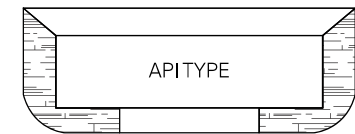
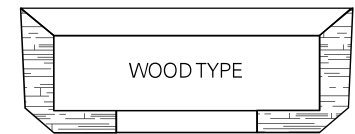
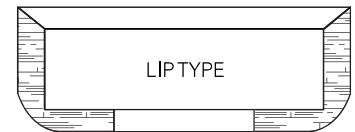
Fully Molded Cups and Packing



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.

Valve Cups are available in 2 different grades: Performance and Premium Grade each with multiple hardnesses. Standard configuration is solid rings.



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		
Name:	PERFORMANCE GRADE			PREMIUM GRADE					
	Regular			Plus			Lo-Friction		
Composition:	Proprietary Rubber Reinforced with Fabric (RC)			Nitrile Rubber Reinforced with Fabric (PR)			Nylon Plastic (L)		
Style:	537	397	137	408	378	218	MS-15-L	24-L	500-L*
Media:	For sweet crude and salt water			For sweet crude, salt water and steam			For sweet and sour crude, corrosive chemicals and salt water		
Temperature:	-20° to 250°F			-20° to 250°F			-30° to 300°F		
Hardness:	SOFT	MEDIUM	HARD	SOFT	MEDIUM	HARD	MEDIUM	SEMI-HARD	HARD
High Speeds:	Fair	Fair	Fair	Good	Good	Good	Great	Great	Excellent
Abrasive:	Fair	Good	Great	Fair	Good	Great	Fair	Fair	Good
Color:	Black	Black	Black	Black	Black	Black	Tan	Green	Gray
Stripe**:	Yellow	-	Green	White	White	White	-	-	-

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

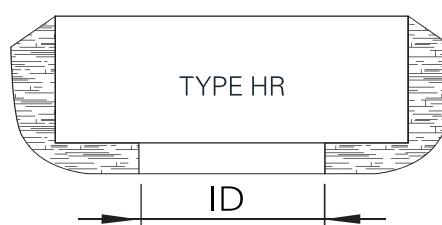
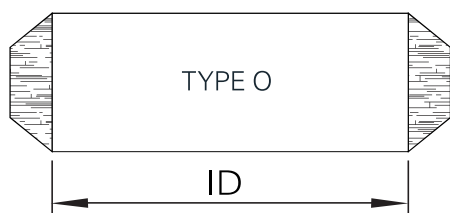
**Some styles have a stripe of colored paint so the style number can be identified

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.

Seating Cups are available in 2 different grades: Performance and Premium Grade.



	PERFORMANCE GRADE	PREMIUM GRADE		
Name:	Regular	Plus	Lo-Friction	
Composition:	Proprietary Rubber Reinforced with Fabric (RC)	Nitrile Rubber Reinforced with Fiberglass (HT)	Nylon Plastic (L)	
Style:	667	749	100-L	4000-L 500-L*
Media:	For sweet crude and salt water	For sweet crude, salt water and steam	For sweet and sour crude, corrosive chemicals and salt water	
Temperature:	-20° to 250°F	-20° to 300°F	-30° to 250°F	-30° to 400°F -30° to 300°F
Hardness:	HARD	HARD	HARD	HARD HARD
High Speeds:	Fair	Good	Great	Great Excellent
Abrasive:	Great	Great	Good	Good Good
Color:	Black	Black	White	Tan Gray
Stripe**:	-	Purple	-	- -

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

**Some styles have a stripe of colored paint so the style number can be identified

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	6574
with PTFE	N/A	6222	N/A	6572
with Brass & PTFE	N/A	6732	N/A	6577
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 ₂ S
Abrasives:	Fair	Good	Good	Great

UPGRADES TO EXTEND THE LIFE OF THE PACKING. AVAILABLE WITH STYLES 6031 AND 6444.

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 ₂ S	For strong abrasives, steam, steam injection, high water cut (>90%), CO ₂ , and <30% H ₂ S
Abrasives:	Good	Great	Excellent

Upgrades for Top and Bottom Rings to extend the life of the packing. Available with styles 6031/435 and 6444/544. 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 ₂ S	For strong abrasives, steam, steam injection, high water cut (>90%), CO ₂ , and <30% H ₂ S
Abrasives:	Good	Great	Excellent

LONG -LIFE™ PACKING




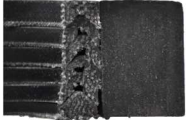
LONG-LIFE™ packing is constructed of proprietary rubber compounds to ensure optimal performance and a long-lasting seal. For improved sealability and performance a FLUID-SEAL™ Rod Packing (FSRP) insert can be added to the LONG-LIFE™ packing.

Offered in our Performance and Premium Grade materials, there are also 3 available upgrades: brass flakes (DURAGOLD™), PTFE flakes, and brass & PTFE flakes. Designed to fit Ratigan style stuffing boxes in all rod sizes, this product is sold in sets of 2 solid packing rings which make 1 set.



	PERFORMANCE GRADE	PREMIUM GRADE
Name:	Regular	DURATUFF®
Composition:	Proprietary Rubber with Graphite	HNBR Rubber
Base Style:	6031	6444
with Brass:	6433 (DURAGOLD)	6574
with PTFE:	6222	6572
with Brass & PTFE:	6732	6577
Temperature:	-20° to 250°F	-30° to 325°F (350°F in stream)
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 ₂ S
Abrasives:	Good	Great

Upgrades to extend the life of the packing. Available with both our Regular Grade and DURATUFF® HNBR. Brass and PTFE adder not available with FLUID-SEAL™ Rod Packing option.

ADD BRASS FLAKES:	ADD PTFE FLAKES:	ADD BRASS & PTFE FLAKES:	ADD FLUID-SEAL ROD PACKING:
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	Keeps rod lubrication on the packing, prevents slippage and reduces rod contact by 33%; greatly reducing friction and increasing rod and packing life.
			

LUBRIPAK™ PACKING




LUBRIPAK™ rubbers are made with high quality rubber compounds to assure excellent service under all operating conditions.

Offered in our Performance and Premium Grade materials, there are also 3 available upgrades: brass flakes (DURAGOLD™), PTFE flakes, and brass & PTFE flakes. Designed for Cross-Twin style Type "B" and "X" stuffing boxes, this product is sold in sets of 2 rubbers which make 1 seal, and are available in all polished rod sizes.



	PERFORMANCE GRADE	PREMIUM GRADE
Name:	Regular	DURATUFF®
Composition:	Proprietary Rubber with Graphite	HNBR Rubber
Base Style:	6031	6444
with Brass:	6433 (DURAGOLD)	6574
with PTFE:	6222	6572
with Brass & PTFE:	6732	6577
Temperature:	-20° to 250°F	-30° to 325°F (350°F in stream)
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 ₂ S
Abrasives:	Good	Great

UPGRADES TO EXTEND THE LIFE OF THE PACKING. AVAILABLE WITH BOTH OUR REGULAR GRADE AND DURATUFF(R) HNBR

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
		

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 270°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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GARLOCK
an Enpro Company
1666 Division Street
Palmyra, NY 14522

Tel: 1-877-GARLOCK / 315.597.4811
Fax: 800.543.0598 / 315.597.3216
www.garlock.com

Garlock®