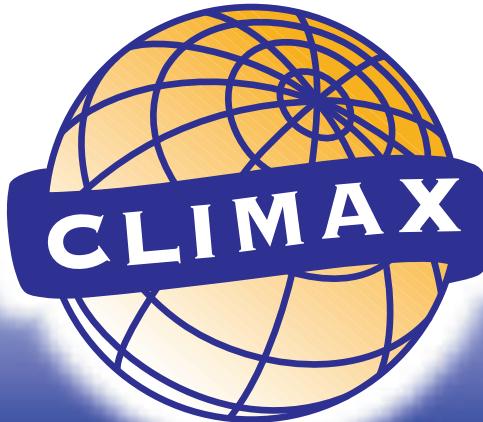

CLIMAX LUBRICANTS

AND

EQUIPMENT CO.®



***Over "60" Years of Experience
in Valve Lubricants / Sealants***

P.O. BOX 5235
HOUSTON, TEXAS 77262-5235

7915 E. ELM STREET
HOUSTON, TEXAS 77012

PHONE: 713-923-2626
FAX: 713-928-9025
sales@climaxlube.com

"LET US CLIMAX YOUR VALVES"

CLIMAX LUBRICANTS

Climax Lubricants & Equipment Company is a Plug, Ball & Gate Valve Lubricant/Sealant manufacturer. Climax has been manufacturing Valve Lubricants/Sealants, Valve Stem Packings and Valve Lubrication Equipment for Northern America and foreign countries for over 60 years.

Climax Lubricants are made of the finest materials obtainable. They are constructed to act as a Hydraulic medium (to lift tapered plugs), seal against leakage and lubricate, in order to make the valve operate at its lowest torque. You will notice we use a color code system in our lubricants: black, amber, green, red, etc., so there will be no confusion over which lubricant to use for a particular service.

Climax Stick Lubricants are identified by letters: "A", "B", "C", "D", "G", "H", "J", and "K", denoting size and a number indicating the formula. Sticks are packaged in boxes of "A"-96, "B"-72, "C"-32, "D"-28, "G"-13, "H"-24 sticks to a box. The "J" stick is 16 and the "K" stick is 12 per carton. The "J"-size stick is designed to fit the Climax Model 1699 Hydraulic plug valve lubricating gun and the "K" size stick is designed to fit the Climax 10516 & Roket 280 grease guns.

Bulk Lubricant in 5-quart (4.7 liter) and 5 or 6-gallon (22.68 liter) cans are for use in the Model 10 and Model 40 bucket type air guns. Also available in bulk of larger quantities we offer 120 lb. (16-Gallon) and 400 lb. (55-Gallon) drums of lubricant.

HOW TO ORDER Orders for Climax Lubricants should always include a complete specification so that the exact lubricant can be supplied.

The following information is essential:

When ordering stick lubricant or stem packing:

Give lubricant number and stick size

Stem packing is not to be used as a lubricant

When ordering bulk lubricant:

Give lubricant number and can or drum size.

Regular consistency will be supplied unless winter grade/special formula is specified.

PACKAGED

12 - "K" Size Sticks per Carton

16 - "J" Size Sticks per Carton

6 Cartons per Case

5 Qt. (10 Lb.) Containers for Air Equipment

4 - 5 Qt. Containers per Case

35 - 40 - 50 lb. Drums (5 or 6 Gallon)

120 - 150 lb. Drums (16 Gallon)

400 lb. Drums (55 Gallon)

SIZE

K 1 1/2" x 12"

J 1 3/8" x 8 3/4"

H 7/8" x 4 1/2"

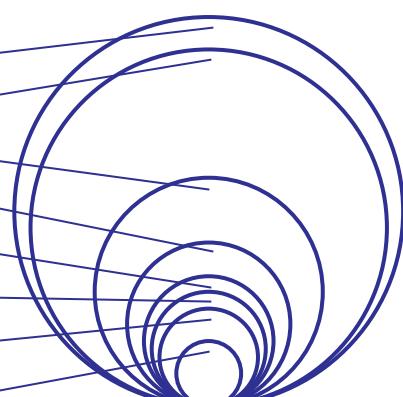
G 5/8" x 3 1/2"

D 1/2" x 2 5/8"

C 7/16" x 2 1/8"

B 3/8" x 1 1/2"

A 1/4" x 1"



SMALL STICKS

For Screw Type Lubricators

CLIMAX LUBRICANT RECOMMENDATION CHART

Absorption Oil	950, 1034	Calcium Sulfate	400-A	Ethylene	950, 1034
Acetone	400-A	Cane Juice	400-A	Ethylene Gas	950, 1034
Acetylene	400	Cane Sugar Liquors.....	400-A	Ethylene Glycol	400, 400-A, 1036
Acetic Anhydride	400, 400A	Carbide.....	400-A	Ethylene Oxide	800, 400
Acid	400, 400A	Carbolic Acid	900	Ethyl Sulfate	800, 400
Acrolein	400	Carbon Dioxide.....	.950, 204		
Air	525, 1034	Carbon Monoxide .....	.950, 204		
Air Dryers.....	204, 1034	Carbon Tetrachloride .....	.950, 1034	Feed Water (Boiler)	Polyseal #6
Alcohol.....	.400A	Carnauba Wax.....	800	Fertilizer Solutions	400-A
Alcohol, Propyl .....	.400-A	Casein .....	.650, 800	Fish Oil	800, 600
Aldehydes & Water	400	Casein Paint .....	.650, 600	Flourine	FL-5
Aluminum Salt Solutions	400, 400A	Casing Head Gas .....	.650, 800	Flue Gases	800, 900
Aluminum Chloride.....	400	Castor Oil	600, 400-A	Foamite	400-A
Aluminum Hydroxide	400	Cellosolve Solvents (Methyl).....	.900, 950	Freon	950, 1034
Ammonia (Gas or Liquid) .....	.400-A, 204	Cellulose Acetate (Sol.) .....	.900, 950	Fuel Oil	800, 650
Ammonia Anhydrous.....	.400-A, 204	Cellulose Nitrate (Sol.) .....	.400-A	Fuel Oil & Gasoline .....	.711
Ammonia & Creasote Oils .....	.400-A	Cement.....	.400-A, 600	Fuel Oil & Pitch .....	.900
Ammonia Liquid (Crude) .....	.400-A	Cement Slurries.....	.400-A, 600	Fuel Oil & Tar .....	.900
Ammonia & Tar .....	.400-A	Chalk Solutions.....	.400-A	Furfural .....	.400, 400-A
Ammonia Hydroxide.....	.400-A	Charcoal Water.....	.400-A	Furfural & Oil .....	.400-A
Ammonia Phosphates .....	.400-A	Chlorine (Anhydrous).....	FL-5		
Ammonia Sulfate	400	Chlorine (Solutions Weak)	400		
Ammonia Sulfate Liquor	400	Chocolate .....	.450		
Ammonia Sulfide	400	Chromic Acid .....	.400		
Amyl Acetate	950, 1034	Clay Slips .....	.400-A		
Amyl Chloride	950, 1034	Coal Gas .....	.800, 600		
Aniline	950	Coal Sludge .....	.400-A		
Aniline Dyes	950	Coal Tar .....	.800, 750, 900		
Aniline Oil	950	Coat Tar Oils .....	.900, 950		
Animal Oils .....	.650	Coat Tar Paints .....	.900, 950		
Anthracene Oil	800	Coconut Oils.....	.400-A, 600		
Argon Gas .....	.400-A	Cod Liver Oil.....	.450		
Aromatic Solvents	950, 800	Coke Oven Gas .....	.400-A		
Arsenic Solutions Oxide	400	Collodion .....	.800		
Asphalt .....	.900, 750, 204	Compressor Discharge .....	.900, 750		
Asphalt Emulsions	Polyseal #6, 750, 204	Copper Acetate .....	.400-A		
Asphalt Paints	800, 900	Copper Cyanide .....	.400-A		
Banana Oil	800	Corn Oil .....	.450		
Barium Salt Solutions .....	.400, 400-A	Corn Syrup .....	.450		
Barium Carbonate	400	Cottonseed Oil.....	.450		
Barium Hydroxide	400	Creosote .....	.900, 650		
Barium Nitrate	400	Creosote (Oils) .....	.900, 650		
Barium Sulfide	400	Cresol .....	.400-A		
Beet Sugar Liquids	400	Cresylic Acid .....	.400-A		
Benzaldehyde (Pure)	800, 950	Crotonaldehyde .....	.800		
Benzene (Benzol)	950, 1034	Crude Oil .....	.650, 600		
Benzoate or Soda	400	Cumene .....	.950, 1034		
Benzol Vapors & Steam	1034	Curb Cocks (Gas) .....	.950, 1034		
Bituminous Paints	800, 950	Cutting Oils .....	.800, 900		
Black Liquor .....	.400-A	Denatured Alcohol .....	.450		
Black Liquor Evaporates .....	.400-A	Diesel Fuel .....	.950, 1034		
Blast Furnace Gas (Dry) .....	.400-A	Diethanolamine .....	.400		
Blast Furnace Gas (Wet)	1034	Dipentine .....	.800		
Beach Liquors	400	Disodium Phosphate .....	.400		
Boiler Feed Water	Polyseal #6	Distilled Water .....	.400-A, 600		
Bone Oil .....	.400-A	Doctor Solution .....	.400-A		
Borax .....	.400, 400-A	Doctor Sol. & Gasoline .....	.711		
Bottle Gas .....	.650, 800	Dowtherm .....	.800, 650		
Brake Fluid	950, 1034	Drilling Mud .....	.400-A, 800XH		
Bromine	FL-5	Drinking Water .....	.450		
Bunker Oil "C"	800, 950	Drip Cocks (Gas) .....	.650, 800		
Butadiene	950, 1034	Dyes, Oil Soluble .....	.800, 950		
Butane	800	Dyes, Water Soluble .....	.400, 400-A		
Calcium Salt Solutions .....	.400, 400-A	Edible Oils .....	.450		
Calcium Arsenate	400	Enamel .....	.800		
Calcium Carbide .....	.400-A	Epsom Salts .....	.450, 400		
Calcium Chlorate .....	.400-A	Ethane .....	.950, 1034		
Calcium Citrate .....	.400-A	Ether, Ethyl .....	.950, 1034		
Calcium Chloride .....	.400-A	Ethyl Acetate .....	.950, 1034		
Calcium Hydrochloride .....	.400-A	Ethyl Alcohol .....	.400-A, .450		
Calcium Hydroxide .....	.400-A	Ethyl Benzene .....	.950, 1034		
Calcium Oxide .....	.400-A	Ethyl Chloride .....	.800, 400		
				Jet Fuel .....	.711, 1034
				Kerosene .....	.800, 650
				Kerosene & Naptha .....	.800
				Kerosene & Water .....	.800

CLIMAX LUBRICANT RECOMMENDATION CHART

(CONTINUED)

Lard	450	Paint	1034	Sodium Nitrate	400
Latex Emulsions	Polyseal #6	Paint Thinner	1034	Sodium Plumbite	400
Lead Carbonate in Oil	650	Peanut Oil	450, 204	Sodium Phosphate (tri-basic)	400
Light Naphthas	650	Phenol	950, 1034	Sodium Salt Solutions	400, 450
Light Naphthas & Steam	650	Phthalic Anhydride	400-A	Sodium Silicate	400
Light Oil (Coal Tar)	650	Pentane	950, 1034	Sodium Sulfate	400
Lignin in Solution	400-A	Petroleum	650	Sodium Sulfide	400
Lime (Milk of Lime)	400-A, 600	Petroleum Gas	900	Soluble Oils	800, 204
Lime Sulfur	400	Petroleum Oil	650	Solvent Naphtha	800, 950
Linseed Oil	800, 204	Petroleum Residue Oils	900	Sour Gas	340, 204, 110
Liquified Petroleum Gas (LPG)	650, 950	Petroleum Solvents	800	Soya Bean Oil	450, 600
Lubricating Oils (Min.)	650	Pine Gum	800, 600	Spent Lye Soap	400-A
Lubricating Oils (Veg.)	400-A	Pitch	900, 750, 204	Steam & Hot Water	Polyseal #6
Lyez (Sodium Hydroxide) 20%	400, 400-A	Pitch & Fuel Oil	900	Steam Condensers	Polyseal #6
Magma	400-A	Plaster of Paris	400-A	Steam, Naphtha & Resin	Polyseal #6
Magnesa Slurry	400-A	Polyester Resin & Styrene	950, 1034	Steam, Turp & Gasoline	711
Magnesium Salts	204, 400	Potash	400-A	Stoddard Solvent	950, 1034
Magnesium Silicate	400	Potassium Bichromate	400-A	Styrene	950, 1034
Magnesium Hydroxide	400	Potassium Carbonate	400-A	Sugar of Lead	400-A
Magnesium Sulfate	400	Potassium Chloride	400-A	Sulfur (Molten)	204
Manufactured Gas	600, 650	Potassium Nitrate	400-A	Sulfur Dichloride	204
Mash (Distillery)	450, 204	Potassium Salts	204, 400-A	Sulfur Dioxide	400, 204
Mercury	800, 950	Potassium Sulfide	400-A	Sulfuric Acid (Conc) 95%	400
Meter Cock (Gas)	800, 600	Producer Gas	900	Sulfuric Acid (Fuming) 98%	FL-5
Meter Set Ups (Gas)	800, 600	Propane (Dry)	800	Syrup	450
Meter Shut-Offs (Gas)	800, 600	Propane (Wet)	900, 1034		
Methane	800	Propane & Cresylic Acid	800		
Methanol	400, 450, 400-A	Propyl Acetate	800		
Methyl Chloride	800	Propyl Alcohol	450		
Methylene Chloride	800	Propylene (Liquid)	950, 1034		
Milk of Lime	400-A, 600	Propylene (Vapor)	950, 1034		
Milk of Magnesia	450	Propylene Oxide	400, 400-A		
Mineral Oil	800, 650	Pulp Lines	400-A		
Mine Water	400-A				
Monoethanolamine	400-A, 400	Rape Seed Oil	800, 650		
Molasses	450, 204	Red Lead in Oil	800		
Monochlorobenzene	950, 800	Resin	400, 600		
Mud Pump Lines	800XH	Resins & Alcohol	400		
Muriate of Potash	400-A	Reversing Valves (Gas)	600, 900		
Naphtha	800, 950	Road Tar	900, 750		
Naphthalene	950, 1034	Roofing Pitch	900, 750		
Naptha & Oil	800	Rubber Compounds	800		
Naptha & Paint	800	Rubber Solvents	800		
Napthas & Steam	1034	Sal Soda	400-A		
Naptha Vapors	950, 1034	Sand & Water	600		
Naptha & Water	950	Service Cocks (Gas)	900, 600		
Natural Gas	900, 600, 950	Sewage	400-A		
Nickel Plating Sol.	400	Sewage Gas	400-A, 600		
Nitrobenzene	950, 1034	Shellac	400		
Nitrobenzene & Water	950, 1034	Slop (Brewery)	450		
Nitrogen	204, 400-A	Slurries (Cement)	400, 600		
Nitromethane	1034	Slurries (Magnesia)	400-A		
Nitrous Oxide	400-A	Soap Liquor	400-A		
Oakite	400, 400-A	Soap Solution	400		
Oil (Crude)	650, 600	Soap Stock	400		
Oil (Edible)	450	Soapstone (Talc)	650		
Oil (Mineral Lubricating)	650	Soda Ash	400-A		
Oil (Petroleum)	650	Soda (Crude)	450		
Oil (Veg. & Animal)	600, 400-A	Sodium Arsenate	450		
Oil Gas	650	Sodium Bicarbonate	450		
Oil & Steam	Polyseal #6, 1034	Sodium Bichromate	450		
Oil & Tar	900, 750	Sodium Borate	400		
Oil & Water Mixture	1034, Polyseal #6	Sodium Carbonate	400		
Oleomargarine	450	Sodium Chloride	400		
Oxygen	FL-5	Sodium Chromate	400		
		Sodium Cyanide	400		
		Sodium Formate	400		
		Sodium Hydroxide 20%	400		

* The following recommendation chart is based on line product only. Conditions can vary according to temperatures, product mixture, line pressures & type (condition) of valve. Detailed properties of specified lubricants/sealants are given on the following pages. When special conditions arise, consult our office. The following lubricants will function as listed in most applications. We do not warrant the following in all applications.

LUBRICANT CONVERSION CHART

IN MOST APPLICATIONS THE RECOMMENDATION WILL FUNCTION AS LISTED. WE DO NOT WARRANT THE BELOW IN ALL APPLICATIONS. IF YOU HAVE A SPECIAL PROBLEM, CALL US.

CLIMAX	NORDSTROM	WALWORTH (WALSEAL)		SERVICES
		Previous Part #	New Part #	
400 or 400A	147 - 421		No. 60	Acids, Caustics, Food And Pharmaceutical As Determined By User.
204	234			Silicone Lubricant
711	357		No. 40	Gasoline, Kerosene And Mineral Oils
650, 600	386			General Hydrocarbons Services
800 XH	555	No. 1		General Hydrocarbons
750, 900	654	No. 9		General Hydrocarbons Services
FL-5	660			Fluorocarbon Lubricant Oxygen Chlorine, Etc.
711, 1034	755	No. 7	No. 40	Lub. Oils, Fuel Blends Of Alkylate And Plant Food
711	833		No. 40	Aviation Gas, Jet Fuel and Hydrocarbons
220, 262	852, 862	No. 5, No. 6	No. 50	Low Temperature Gas Transmission Lines
Polyseal No. 3	921		No. 20	Super Heated Steam And Hot Hydrocarbon Gases
950, 960, 1034	950, 960, 1033		No. 10	Propylenes, Benzenes, Benzenes Styrene, LPGs
Polyseal No. 6	167	No. 2	No. 20	Steam And Hot Water
450		No. 3		Food Products As Determined By User
400-A		No. 4		Strong Acids And Alkalies
340		No. 8		Sour Gas H ₂ S And CO ₂ in Products
204				Sour Gas H ₂ S And CO ₂ in Products
FS-3452	281			Fluorosilicone Lubricant, LPGs, Gaseous Hydrocarbons, Strong Acids & Caustics

CLIMAX VALVE LUBRICANTS/SEALANTS

Lubricant/ Sealant Number	Grades Available	Color	Temp. Range From To	Principal Services	Unsuitable For
S-100	Bulk	Silver	0° to 400° F	To lubricate & protect the threads & stems of gate valves. Also use to lubricate the bearings.	Hydrocarbon Fluid contact
102	Bulk Poly-Pac	Peanut Butter	0° to 300° F	WKM/API type gate valves Oil & gas production	Alkalies
103	Bulk Poly-Pac	Pink	0° to 400° F	Same as 102; Contains PTFE for added sealing capability	Alkalies
104	Stick Poly-Pac	Blue	0° to 500° F	PTFE Impregnated sealant for badly scored ball or plug valves	Alkalies
108	Bulk Poly-Pac	Black	0° to 600° F	Same as 102; Higher temperature application	Alkalies
110	Bulk Poly-Pac	Yellow	-20° to 300° F	For WKM/API type gate valves in sour gas/crude where H ₂ S and CO ₂ are present	Aromatics, Solvents, Hot Air
204	Stick Bulk Poly-Pac	White	-50° to 400° F	Molten Sulphur, Acetic Anhydride, Acetic acid, CO ₂ , H ₂ S, Vacuum (air) - food & pharmaceutical applications as determined by user	L.P.G. and hydrocarbon solvents
220	Stick Bulk Poly-Pac	White	-75° to 250° F	Very cold service for pipe lines, compressor stations, gasoline plants and crude oil production fields. For Liquid Service.	Aromatics, Solvents
262	Stick Bulk Poly-Pac	Translucent	-85° to 250° F	Same as above - Gas Service	L.P.G.
340	Stick Bulk Poly-Pac	Yellow	-20° to 400° F	Where H ₂ S & CO ₂ are encountered	Solvents & Amines
350-A	Stick Bulk Poly-Pac	Yellow	-20° to 400° F	Hydrofluoric acid or mixtures of HF & L.P.G.	Hot Air
400-A	Stick Bulk Poly-Pac	Amber	-20° to 400° F	Aqueous solutions of Acids & Caustics	Liquid Hydrocarbons
400	Stick Bulk Poly-Pac	Red	-20° to 400° F	Acids & Caustics	Liquid Hydrocarbons
450	Stick Bulk Poly-Pac	White	-20° to 450° F	Acids & Caustics, Food & Pharmaceutical applications as determined by user	Liquid Hydrocarbons
525	Stick Bulk Poly-Pac	Translucent	0° to 400° F	Air starting valves, Air fractionalation	Liquid Hydrocarbons
600	Stick Bulk Poly-Pac	Cream Amber	-20° to 500° F	General gas and water Sealant and general Hydrocarbons service	L.P.G.
650	Stick Bulk Poly-Pac	Blue	-40° to 500° F	Hydrocarbon and L.P.G. service	Aromatics, Alkalies, Solvents
711	Stick Bulk Poly-Pac	Amber	32° to 400° F	Aviation gasoline, Jet fuel, fuel blends of Alkylate	100% Benzine
750	Stick Bulk Poly-Pac	Black	0° to 600° F	Asphalt, General hot oil service, Hot Hydrocarbon vapors and gases	Aromatics, Alkalies, Solvents

CLIMAX VALVE LUBRICANTS/SEALANTS (CONTINUED)

800	Stick Bulk Poly-Pac	White	-20° to 450° F	Butane, Butadiene, Carbon Tetrachloride, Ethane, Propane	Alkalies
900	Stick Bulk Poly-Pac	Black	-20° to 650° F	Natural gas, petrochemical plants, rubber plants, and hot Hydrocarbons service	Alkalies
901	Stick Bulk Poly-Pac	Black	-30° to 300° F	Cold weather, Hydrocarbon lubricant	Alkalies
950	Stick Bulk Poly-Pac	Amber	-40° to 300° F	Propylenes, Benzenes, Toluene, Butadiene, Xylenes, Styrene, Cumenes	Alkalies
960	Stick Bulk Poly-Pac	Amber	-20° to 300° F	Same as 950; Contains high viscosity polymers for better sealing capability	Alkalies
960-MT	Stick Bulk Poly-Pac	White	-20° to 300° F	Same as 960; Contains PTFE for added sealing capability	Alkalies
960-MTH	Stick Bulk Poly-Pac	White	-20° to 300° F	Same as 960-MT; Contains Microfine/Particle Size PTFE for badly worn, scored, leaky plug/ball valves	Alkalies
1034	Stick Bulk Poly-Pac	Maroon	-20° to 400° F	Liquid & Gaseous Aliphatic Hydrocarbon service, Internal Combustion Fuels	Alcohols, Glycols
1034 MT	Stick Bulk Poly-Pac	Cream	-20° to 400° F	Same as 1034; Contains PTFE for added sealing capability	Alcohols, Glycols

Note: Winter Grade Formulas for most Lubricants/Sealants listed are available.

CLIMAX SPECIAL VALVE LUBRICANTS/SEALANTS ^①

Lubricant/ Sealant Number	Grades Available	Color	Temp. Range From To	Principal Services	Unsuitable For
900-T	Stick Poly-Pac	Black	-20° to 650° F	PTFE impregnated lubricant to use in worn, scored or leaky valves	Alkalies
FL-5	Stick Bulk Poly-Pac	White	0° to 400° F	Non-reactive to corrosive liquids and oxidizing agents such as: chlorine, anhydrous hydrogen chloride, nitric acid, oxygen, hydrogen peroxide and sulfuric acid	Alkalies
Polyseal #6	Stick Bulk Poly-Pac	Gray	32° to 450° F	Steam and water lubricant	Liquid Hydrocarbons
Poyseal #3	Bulk Poly-Pac	Red	32° to 650° F	Super heated steam	Liquid Hydrocarbons
1500	Bulk	Silver	0° to 1500° F	Anti-Ceeze Lubricant	Liquid Hydrocarbons
S-3	Bulk	Amber	-20° to 350° F	General Purpose EP Bearing Lubricant	Liquid Hydrocarbons
S-4	Bulk	Blue	-20° to 500° F	General purpose EP High Temperature Bearing Lubricant	Liquid Hydrocarbons
666	Stick Bulk Poly-Pac	Brown	0° to 300° F	McEvoy Gate Valve Seat Compound	Alkalies
800XH	Stick Bulk Poly-Pac	Tan	-20° to 400° F	FMC Style Straight Bodied Plug Valve Sealing Compound	Alkalies
804XH	Stick Bulk Poly-Pac	Amber	-20° to 400° F	Haliburton Style Straight Bodied Plug Valve Sealing Compound	Alkalies
GY-600	Stick Bulk Poly-Pac	Amber	-20° to 300° F	General Hydrocarbon Service/Maintenance Lubricant/Sealant	Alkalies
66111	Stick Bulk Poly-Pac	White	-40° to 400° F	Silicone Compound Equivalent GE661-DC111	Liquid Hydrocarbons

① 8 oz. Poly-Pac gun bags are designed to be used in the Climax 1699 Hydraulic Style Grease Gun. Most bulk grade sealants are available in 14 1/2 oz. grease gun cartridges and can be used in the Climax 10516-C/10516-SC Screw Prime Grease Gun.

CLIMAX "PAC-EZ" VALVE STEM PACKING ^②

DESIGNED FOR USE IN VALVES WITH PLASTIC PACKING INJECTOR SYSTEMS
NORDSTROM HYPERSEALS, WKM/API TYPE GATE VALVES & ORBIT BALL VALVES

PAC EZ Number	Grades Available	Color	Temp. Range From To	Principal Services	Unsuitable For
Standard	Stick	Blue	0° to 500° F	General Purpose packing for aliphatic hydrocarbon liquids & gases	Alkalies
107	Stick	Black	0° to 650° F	Hot Hydrocarbon Gases/Vapors	Aromatics, Alkalies, Solvents
109	Stick	Maroon	-40° to 500° F	For Natural & Manufactured Gas Very Low Friction - Use for Butane, Ethane, Methane, Propane (Wet or Dry) Also - Ethylene, Propylene and other L.P.G.s.	Aqueous Solutions & Caustics
204	Stick	White	-50° to 400° F	Molten Sulfur, Acetic Anhydride, Acetic Acid, CO ₂ , H ₂ S & Vacuum (Air)	LPG & Hydrocarbon Solvents
333	Stick	Black	32° to 750° F	Hi-Pressure & Hi-Temp Steam, Expansion Joints, Hot Water, Hot Oil/Steam Combinations, Steam/Super Heated Steam	Hydrocarbon Solvents
333-10	Stick	Black	32° to 750° F	Same as 333; More pumpable - Use w/hydraulic style guns	Hydrocarbon Solvents
400-A	Stick	Tan	-20° to 400° F	Acids & Caustics	Liquid Hydrocarbons
1034	Stick	Green	-20° to 400° F	Aromatic Hydrocarbons, Iso-Octane, Benzene, Toluene, Xylenes, Gasolines, Aviation/Jet Fuels	Alcohols, Glycols
FL-5	Stick	White	0° to 400° F	Corrosive Liquids & Oxidizing Agents such as: Chlorine, Anhydrous HCl, Nitric Acid, Oxygen, Hydrogen Peroxide & Sulfuric Acid	Do not use on Magnesium or Aluminum Parts
"T" Seal	Stick	Brown	-40° to 500° F	To pack off casing wellheads to prevent a combination of pressures and materials between casing head & tubing (referred to as the anulus) from escaping into the atmosphere - for oil & gas production	Alkalies

② PAC-EZ is available in specific diameters, lengths, quantities and packaged accordingly. Continuous rolls of desired length; either round or flat in various sizes are available in bulk packaging.

CLIMAX VALVE CLEANERS ^③

Cleaner Number	Grades Available	Color	Temp. Range From To	Principal Services	Unsuitable For
Valve Turn #1	Stick Bulk Poly-Pac	Black	-20° to 500° F	To work out valve residue left in plug valves in Hydrocarbons service	Not a sealant, Alkalies
Valve Turn #2	Stick Bulk Poly-Pac	Black	-20° to 500° F	Same as above except for acids & caustics	Not a sealant, Liquid Hydrocarbons
VCS #1	Bulk Poly-Bottles	Light Amber	0° to 500° F	To work out valve residue left in valves & ease operation	Not a sealant
VCS #2	Bulk Poly-Bottles	Black	0° to 300° F	Same as VCS #1; contains Alcohol/Moly for more dissolving capability & more efficient operation	Not a sealant
VCS # 2G	Bulk Poly-Pac	Black	0° to 300° F	Same as VCS # 2; Gel formulated for bulk packaging-16-oz. cartridges, Poly-Packs, 5-qt. cans, 5-gallon pails	Not a sealant
VCM	Bulk Poly-Pac	Dark Yellow	-10° to 400° F	Penetrant - Gel formulated to dissolve or soften the hardened or dried lubricants, lacquer & residual gum deposits in a valve which will make it hard to operate.	Not recommended for soft seat valves.

③ Poly-Bottles are available in 8 oz. & 32 oz. Bottles.

THERE ARE 3 WAYS TO SERVICE VALVES

LUBRICANT MAINTENANCE

Periodic application of lubricant to valves is the only recommended maintenance necessary under normal conditions. Lubrication is essential to the proper operation of the valve. The sealant, actually being the soft bearing seat of the valve, requires replacement when depleted due to flow media, operating temperatures, pressures and frequency of cycles.

Lubricant maintenance means injecting enough sealant into a valve to provide a sealant film between tapered plug and body to minimize sticking.

1 . MANUAL INJECTION

Small lubricant sticks are for manual injection. Be sure to choose the proper Valve Sealant for the service considering line product, pressure and temperature.

HOW TO INJECT LUBRICANT MANUALLY:

1. Remove valve lubricant screw.
2. Insert the correct size of valve sealant stick and place it into the stem.
3. Replace the fitting and screw down with a wrench until the sealant system is filled completely. This is determined by the resistance produced by the sealant pressure. Larger valves will require several sticks or tubes of sealant due to the capacity of their sealant systems.
4. Continue to add sealant until the plug lifts (sometimes with a hissing sound) indicating the sealant system is full. When the plug lifts, effort to turn the lubricating screw will be noticeably reduced.
5. If the plug fails to respond or continues to be difficult to turn, check with an authorized dealer.

CLIMAX FITTING AS A SEALANT SCREW

The one piece Climax Fitting can also be used to maintain sealant pressure between mechanical injection periods if used as a sealant screw. After the valve is properly lubricated, remove the lubricant screw, insert another stick of sealant and screw the fitting down until the fitting threads are totally engaged in the stem. The fitting will then extend one or two inches, providing that much more sealant capacity in the stem. The additional sealant capacity can be used as an auxiliary reservoir for further lubrication. The valve can then be pressurized by screwing in the fitting as a sealant screw as explained. When the fitting is finally turned into the valve as far as it will go, it indicates additional sealant should be added.

IMPORTANT: EXTREME CAUTION SHOULD BE TAKEN TO PREVENT ANY FOREIGN MATTER FROM ENTERING THE VALVE'S SEALANT SYSTEM.

2. HAND GUN

For installations with valves requiring frequent service, a hand operated 1699 High Pressure Hydraulic or the 10516 Screwprime Hand Gun is recommended. This gun permits speedier servicing and also prevents waste of sealant and over filling of valves.

HOW TO INJECT SEALANT WITH A 1699 or 10516 HIGH PRESSURE HAND GUN:

1. Choose the proper sealant in "J" or "K" stick size for the Hand Gun.
2. Clean accumulated dirt from the top of the fitting before engaging the coupler.
3. Fit the gun's button head coupler over the fitting on the valve.
CAUTION: Coupler should not be attached or detached while gun is under pressure.
4. Inject sealant by hand pumping the gun as long as the needle on the pressure gauge climbs steadily. This should be continued as long as the valve will take pressure and volume. At some high pressure point on the gauge, the needle will "drop-back" when the plug un-seats indicating a fully pressurized system. This point can also be felt when the pumping effort falls off. Additional pumping will not hold the gauge needle and injecting should be stopped at this point. The plug should then be turned to check the ease of operation. Additional sealant can then be injected to purge the line product or eliminate air in the system if necessary.

3. CLIMAX MODEL 10 GUN

Where a large number of valves are in service, the Climax Model 10 is recommended. It is filled by using bulk five (5) quart (4.7 Liters) sealant cans which are loaded directly into the Model 10. It is selfpriming, air operated and is designed to meet extensive field maintenance requirements.

HOW TO INJECT SEALANT WITH A MODEL 10:

1. Choose the proper sealant in a five (5) quart (4.7 Liters) can and load it into the Model 10.
2. Attach the button head coupler.
3. Note the same procedure as Step 3 under Hand Gun Procedure.



CLIMAX LUBRICANT GUNS

No. 10516

For efficient and controlled Plug Valve Lubrication.
Handles the heaviest plug valve lubricant/sealants.
Builds pressure up to 10,000 lbs. plus.
Strong, Durable Aluminum Barrel, Cast Steel Head & Collar.
High Pressure Piston of Finest Lapped Steel.
Positive Prime, Screw Type Plunger Assembly.
Provides 20 or more Strokes without Re-Prime.
Uses "K" Size Stick (1 1/2" Dia. x 12" long).
Giant Buttonhead Coupler with Pressure Release.
Hose Assembly (1/4" I.D. x 12" long H.P. Grease Hose with Built-in
Swivels or Available with 1/2"-27 THD Straight Swivel on one end,
5,000 PSI WP - Standard).



No. 10516-S

Exactly like the Climax 10516 Gun with a Part No. 10557 Z-Swivel (1/4" NPT x 1/2" - 27 THD), 1/4"-NPT High Pressure "TEE" and 15,000 PSI Gauge with protector for more efficient lubrication of Plug Valves.



No. 10516-C

For efficient and controlled Plug Valve Lubrication.
Handles the heaviest plug valve lubricants/sealants.
Builds pressure up to 10,000 lbs. plus.
Strong, Durable Aluminum Barrel, Cast Steel Head & Collar.
High Pressure Piston of Finest Lapped Steel.
Positive Prime, Screw Type Plunger Assembly.
Provides 20 or more Strokes without Re-Prime.
Uses standard 14 1/2 oz. grease gun cartridges.
Giant Buttonhead Coupler with Pressure Release.
Hose Assembly (1/4" I.D. x 12" long H.P. Grease Hose with
Built-in Swivels or Available with 1/2" - 27 THD Straight Swivel on
one end, 5,000 PSI WP - Standard).



No. 10516-SC

Exactly like the Climax 10516-C Gun with a Part No. 10557 Z-Swivel (1/4" NPT x 1/2" - 27 THD), 1/4"-NPT High Pressure "TEE" and 15,000 PSI Gauge with protector for more efficient lubrication of Plug Valves.



CLIMAX HYDRAULIC PLUG VALVE LUBRICATING GUN # 1699



This specially designed high pressure handgun, light in weight (approximately 16 lb.), is more rugged than most conventional types and meets the exacting demands of plug valve sealants. Because the grease gun is built for servicing plug valves, all parts are machined with minute accuracy. The polished hardened steel piston is perfectly fitted in the high pressure cylinder to provide absolute smoothness of operation.

The CLIMAX 1699 is self-priming and can be used in any position. Because of its hydraulic principle, this gun's powerful floating piston forces lubricants, sealants, liquids, packing etc. out of the gun regardless of viscosity.

The gun is equipped with a CLIMAX 1699 Button Head Coupler for connection to the button head sealant fitting in the shank of the valve. This coupler has a built-in feature which locks it to the fitting when the gun is under positive pressure. The coupler cannot be connected to or separated from the fitting with the gun under pressure. This pressure may be relieved by a turn of the by-pass valve. The by-pass valve should not be closed to a point where it is jammed into its seat, nor should it be opened tight against the stop. The valve should be closed firmly, but not tightly. It is not necessary to open the valve past one full turn. Due to "built-in" safety features, the CLIMAX 1699 provides the maximum safety to both the valve and the gun itself. The hydraulic system of the gun is equipped with a relief fitting to protect the gun from injury if the operator were to continue to pump after the gun had been depleted of valve sealant. Also, to prevent damage to the valve and sealant gun, in the event of sealant clogging the system or the operator pumping too fast, a CLIMAX 15,000 psi gauge is provided. This accessory indicates the point at which sufficient sealant pressure has been developed within the valve. The gauge also indicates valve adjustment and other services required. The CLIMAX 0-15,000 psi gauge is the highest quality, most reliable glycerin filled gauge available. The one piece die cast brass case and heavy duty bourdon tube and movement enable the gauge to stand up to the shock and vibration encountered on the most demanding applications. The CLIMAX gauge also features a rubber gauge protector. Climax offers this gun with body drilled and tapped for 1/4" NPT: including 0-15,000 psi gauge with protector for pumping valve stem packing - This set-up indicates direct Hydraulic pressure (1699D). In addition to the gauge an external relief valve coupler is provided, pre-set at 7500 psi. A carrying case for the Climax Model 1699 is available. Refer to the parts list for other available options.

CLIMAX EXCHANGE GUNS

**Trade your old hydraulic gun
in on a Climax Rebuilt Gun.
Cheaper than a major repair.
Prices on request.**

Exchange guns do not include hose assemblies or pressure gauges.
We accept Nordstrom and Walworth guns. All parts interchangeable.



**PACKING GUN
WITH SIDE TAP GAUGE
& CONICAL CAP**

CLIMAX MODEL 1700 · AIR / HYDRAULIC SEALANT GUN

For pumping all kinds of Valve Lubricants / Sealants, Valve Stem Packings and Leak Sealing / Thermal-Setting materials to 10,000 psi max., with 100 psi, 10 cfm air.



FEATURES

Foot-operated trigger at pump. Same quality construction as the popular CLIMAX Model 1699 Grease Gun.

CAPACITY

11" Barrel Length - 16 cu. in. volume (Standard "J" - Size Stick, 1-3/8" Dia. x 8-3/4" Long)

20" Barrel Length - 32.5 cu. in. volume (2-Standard "J" - Size Sticks)

PERFORMANCE

RESISTANCE, psi	0	5,000	10,000
FLOW RATE, cu. in./min.	35	10	4
TIME TO EMPTY GUN, min.:sec.	0:28	1:36	4:00

WEIGHT

With standard 9-foot hoses from AIR/HYDRAULIC pump to gun, 12" hose from gun to coupler, 11" grease barrel: 42-lbs. With the 20" grease barrel: 45.5-lbs.

Gun alone is approximately 13 pounds.

OPERATION

With 11" grease barrel: To load, open by-pass valve at side of gun, unscrew carrying handle, take off grease barrel cap, use handle to push piston to bottom of grease barrel, and load material. Replace cap and handle and close bypass valve. Connect pump to air supply and unit is ready to use. With 20" grease barrel: A wooden dowel is supplied to push piston back in grease barrel.

NOTE

An in-line air filter and lubricator should be installed as close to unit as possible.

Otherwise, pump requires 4 drops of #10 oil in air inlet for each day of use.

CLIMAX ROCKET 280

AIR POWERED HAND GUN
FOR VALVE LUBRICANTS
& SEALANTS



NOW AVAILABLE:

Rocket 380HP

(High Pressure - Developing 15,000-lbs. grease pressure)

Rocket 380HV

(High Volume - Developing 10,000-lbs. grease pressure)

CLIMAX ROCKET 280 AIR POWERED HAND GUN

The sealed-in air motor has a 100 to 1 pumping ratio producing 10,000 psi sealant pressure at an air pressure to the motor of 100 psi. The gun operates on an air supply pressure ranging from 70 psi to 125 psi. It weighs approximately 17 lbs. when loaded with sealant. The gun uses size "K" stick Sealant (1-1/2" Dia. x 12" Long). The forward stroke of the air motor pumps the sealant and the backstroke acts as a booster compressor to supply the necessary pressure to the forced fed priming system. The gun exhaust is at the rear of the air motor away from the operator. Comes complete with shoulder sling, 15,000 psi Gauge w/protector, 1/4" I.D. x 12" Long H.P. Grease Hose (5,000 PSI W.P.-STANDARD) w/built in swivels or available with 1/2"-27 Thd Straight Swivel on one end and Giant Buttonhead Coupler w/plug.

NOTE: CLIMAX DOES NOT RECOMMEND USING VALVE STEM PACKING OR LEAK SEALING MATERIAL IN THE ROCKET 280.

Climax Model 90 Series Pneumatic Lube Guns



Model 120-90

for 16 Gal. Drum
(120 lb. - 150 lb.)



Model 10-90-OS

for 5 Qt. Can
(10 Lb.)

Plug/Ball Valve
Setup



Model 40-90 MT

for 5 Gal. or 6 Gal. Can
(35 lb. - 40 lb.)



Model 10-90

for 5 Qt. Can
(10 lb.)

The Model 90 series is a 90:1 ratio pump with a totally sealed-in 3-1/4" air motor which will provide efficient operations at an air inlet pressure of 100 psi, producing 9,000 lbs. of grease pressure.

Now Available: The Model 120 series is a 120:1 ratio pump with a 4" air motor providing efficient operations at an air inlet pressure of 100 psi, producing 12,000 lbs. of grease pressure.

The Model 10 & 40 are furnished with 10" pneumatic tires.

All models are furnished with 10 feet of 3/8" ID (std.) 16,000 lb.-burst High Pressure Grease Hose with 90° swivel on one end and 1/4" NPT built-in swivel on the other end, 0-15,000 psi Gauge w/protector, air shut-off valve and necessary Adaptors ready for use.

Specify whether for use on Plug/Ball Valves or Wellhead Gate Valves.

A Climax Plug/Ball Valve Setup includes a 319700 Shutoff Relief Valve and Giant Buttonhead Coupler.

A Climax Wellhead Gate Valve Setup includes a 319700 Shutoff Relief Valve and a 1714 Lube Adapter (1"-14 THD WKM/API).

CLIMAX PPSI - 550

POWER PUMP SEALANT INJECTOR 550



Improved Mechanics • Lighter Weight
Counterbalanced for Easier Handling

The POWER PUMP has a 5" Sealed Air Motor with a 1/2" High Pressure Sealant Piston to deliver sealant to the valve at pressures up to 10,000 PSI on 100 PSI Air Inlet Pressure.

Comes Complete with 0-15,000 lb. PSI Gauge w/ Protectors • 10' - 3/8" ID Sealant Hose, 10,000 lb. 1/4" Ball Valve & Plug/Ball Valve Set-Up (Giant Button Head Coupler)
OPTION: Wellhead Gate Valve Adapter - WKM/API 1" - 14 THD

ALSO AVAILABLE:

High Pressure Model developing 15,000 lbs. of Sealant Pressure - Part #PPSI 570

Frees Frozen or Stuck Plugs Quickly

Low volume capability of most sealant pumps allows sealant to leak through worn contact points between the valve body and the plug. The POWER PUMP's high volume and pressure rates easily raise the plug from its seat in only a few strokes. This often allows older valves to remain operable with in-line injection, rather than removal for shop repair.

Eliminates "Air Lock" in Sealant Pumps

The POWER PUMP virtually eliminates the formation of air pockets associated with the installation of new sealant cans and the need to frequently bleed the sealant system. The POWER PUMP delivers sealant to the valve with the first piston stroke after installation of a new can of sealant.

Reduces Danger of Sealant Can Ruptures

On the POWER PUMP, the sealant can is fully enclosed in a heavy duty cylinder. The air cylinder is mounted directly on top of 5 qt. can for positive prime pumping.

Measures Amount of Sealant Injected

The POWER PUMP design includes an indicator rod that gauges the prescribed amount of sealant injected into each valve, eliminating injecting too little or too much sealant into the valve.

Power Pump Comes Complete with Oil Injector

An oil injector is a vital part of any air-operated pump and is an integral part of the POWER PUMP package. Some competitive pumps do not include an oil injector which must be obtained and installed in the inlet air piping.



* Unit Holds
5-qt. (10-lb.) Cans

Approximate Sealant Capacities

Ball Valves: 1 oz. per seat per inch of valve size

Plug Valves: 4" & smaller - 1 oz. per inch of valve size
6" thru 14" - 1 1/2 oz. per inch of valve size
14" thru 18" - 2 1/2 oz. per inch of valve size
18" & larger - 3 1/2 oz. per inch of valve size

Warranty

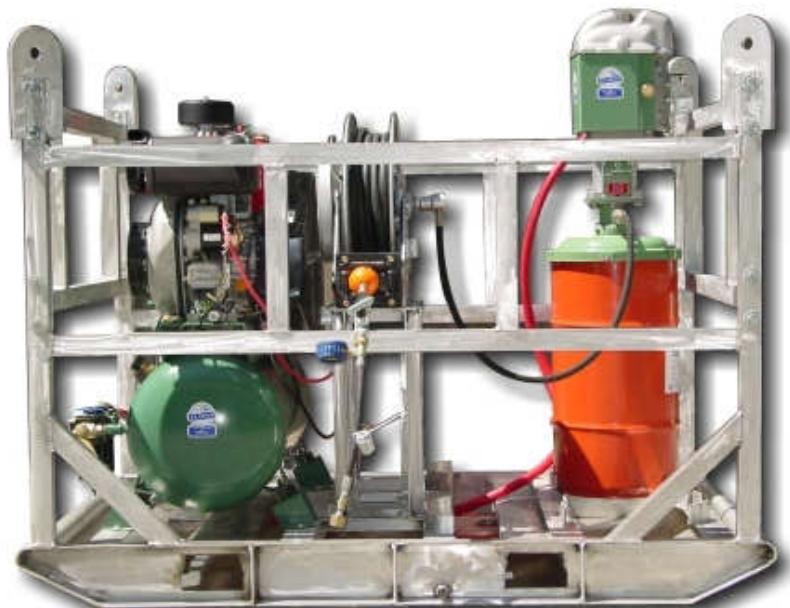
Every POWER PUMP is warranted for 1 Full Year for Parts and Workmanship

Test Results

Valve Sealant Used
Climax 950-SWS (NLGI #3-ASTM 220-250)
9 Strokes per Ounce
No Pressure - 10' Hose
Runs at 35 Strokes per Minute
Pumps approximately
1/2 lb. per minute @ 77 degrees F



6713-30
3-1/2 Gallon Pail



SL-90-5
Steel Lid, 90:1 Ratio - 5-Gallon Pail
*Follow Plate Optional
**120:1 Ratio also available



Model 10-120-OS
5-qt. - 10-lb. Can
120:1 Ratio - 100 PSI Inlet Pressure
Produces 12,000-lbs. Sealant Pressure



**Wellhead Gate Valve
Hose Assembly**
WKM/API - 1"-14THD



Plug/Ball Valve Adapter



6713-10
5 qt.-10 lb. Can or Bulk Fill



Model 40-120MT
5-Gallon - 40-lb. Pail
120:1 Ratio - 100 PSI Inlet Pressure
Produces 12,000-lbs. Sealant Pressure



Serpent Model 1800 Volume Gun



Serpent Model 1699-33 Carrying Case

CLIMAX MODEL 150

75:1 RATIO AND 140:1 RATIO AVAILABLE



Climax High Pressure Lubrication Grease Pump for 16 Gallon (120 lb.- 150 lb. drums); also available for 55 gallon (400 lb.-450 lb. drums).

The 75:1 pressure ratio pump with a sealed-in 4" air-motor is dependable and pumps lubricant at a high volume. With an air inlet pressure of 100 psi, this unit produces 7,500 lbs. of grease pressure.

The 140:1 pressure ratio pump with a sealed-in 6" air-motor produces 14,000 lbs. of grease pressure with an air inlet pressure of 100 psi.

Both the Climax Model 150 (75:1) & Climax Model 150 (140:1) come with a drum cover and a choice of a steel or rubber follow plate.

Available Options:

1. A 1/2" Grease Hose ranging from 14,000 lbs. to 40,000 lbs. burst pressure (Available in various lengths).
2. A Plug/Ball valve set-up consists of a 1/2" NPT-10,000 b. needle valve or ball valve with 1/4" grease hose (12" long), giant button-head coupler, 0-15,000 psi gauge w/protector and "Z"-swivel.
3. A Gate Valve set-up consists of a 1/2" NPT- 10,000 lb. needle valve or ball valve with 1/4" grease hose (12" long), 0-15,000 psi gauge w/protector, "Z"-swivel and a 1714 lube adapter* (1"-14 thd/WKM-API).
*Other lube adapters are available for McEvoy, Cameron, etc.
4. A Standard Drum Dolly with pneumatic tires; contains a stationary steel strap at the bottom of the dolly and a swivel strap at the top for easy drum interchange and portability.

CLIMAX LUBRICANTS & EQUIPMENT CO.®

VALVE LUBRICATION ADAPTER KIT

Kit contains one of each of the following:

PRT-12

Pressure Releasing Tool - WKM 1"- 14 THD

GBH-W/P

Giant Button Head Coupler w/plug

7834

1/2" Bleeder Plug

1200-AUX

to fit Giant Button Head

1200S-AUX

to fit Standard Button Head

1200VCS-AUX

to fit Giant Button Head

5/8" - 18M w/ gasket x 1/4" NPTF w/Vent Cap

1200NL-AUX

to fit Giant Button Head - Lock-On Style w/ Nylon Seal

1200PSC-AUX

to fit Giant Button Head - Steel Cone Type for Positive Seal

PIBT

Packing Injector Bleeder Tool, 1/2-20 THD

1714C

WKM 1" - 14THD Lube Adapter w/Vent Cap

1716C

McEvoy 7/8" - 14THD Lube Adapter w/Vent Cap

1718C

Cameron 3/4" - 16THD Lube Adapter w/Vent Cap

14716-20C

1/4" NPTF x 7/16"-20 M Adapter
for Orbit Packing Injectors w/Vent Cap

1412-20C

1/4" NPTF x 1/2" - 20 M Adapter
for Daniel/WKM Type Packing Injectors w/Vent Cap



Kit is packaged in a handgun type plastic case
with foam insulation for maximum protection.

Part #: VLAK



NOTE: Other Special Adapters/Fittings for Plug/Ball/Gate Valves available or manufactured upon request.

ALSO AVAILABLE FROM CLIMAX



6713-5

Note: This unit also available with the 90 series grease pump (Part # SL 90-5). Follow plate optional with both units.



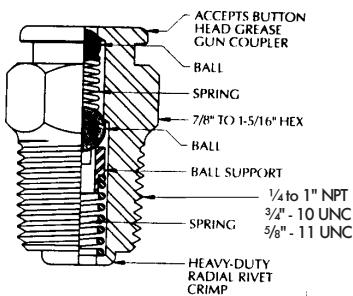
6713-4 CFS

Spring & Follow Plate

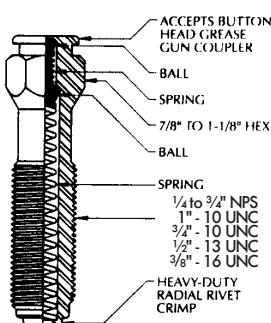


CLIMAX VALVE FITTINGS

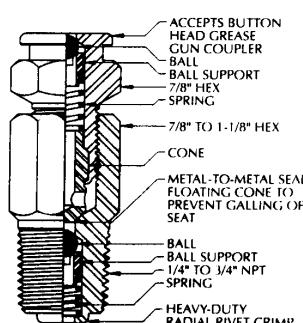
P - SERIES



H - SERIES



HF - SERIES



P - SERIES: A double-check one-piece fitting for extreme high pressure, temperature, acids.
Also available: 1/2"-13, 5/8"-11, 3/4"-10, & 7/8"-9 NC Sizes.

H - SERIES: A double-check one-piece fitting. This is a combination lubricant screw & gun type fitting.
Also available: 5/8"-11, 3/4"-10, & 7/8"-9 NC Sizes.

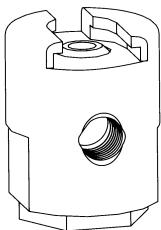
HF - SERIES: A double-ball-check two-piece metal-to-metal positive intermediate seal with floating cone to prevent galling of seat.

For Service to 10,000 PSI

CONVERSION CHART

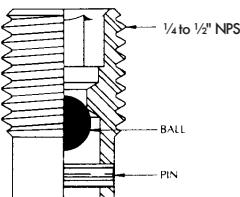
VALVE SIZE	NORDSTROM POWELL		WALWORTH		A.C.F.
1/2"	P-14	H-14	P-14	H-14	H-12A
5/8"	P-14	H-14	P-14	H-14	H-12A
1"	P-14	H-14	P-14	H-14	H-12A
1 1/2"	P-14	H-14	P-14	H-14	H-12A
Nordstrom 2" Fig. #s 142-143	P-14	H-14			
2"	P-38	H-38	P-14	H-14	H-58A
2 1/2"	P-38	H-38	P-38	H-38	H-58A
3"	P-12	H-12	P-38	H-38	H-34A
4"	P-12	H-12	P-12	H-12	H-34A
6"	P-34	H-34	P-12	H-12	H-34A
8"	P-34	H-34	P-12	H-12	H-34A
10"	P-34	H-34	P-34	H-34	H-34A
12" 14" 16"	P-34	H-34	P-34	H-34	

Giant Button Head Coupler



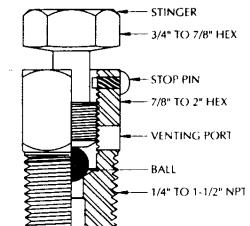
With Pressure Release or Plug
Fits 7/8" Dia. Button Head Fittings
& adapts to Grease Gun via 1/4" NPT female thread.
Standard Button Head Coupler also available to fit
5/8" Dia. (Dime Size) Button Head Fittings

Internal Check Fitting



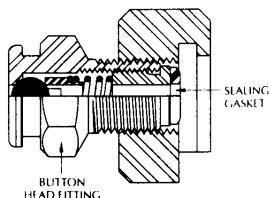
CV-14
(1/4" NPS)
Single Ball (Floating)
For Service to 10,000 PSI

Body Vent (Bleeder) Fitting

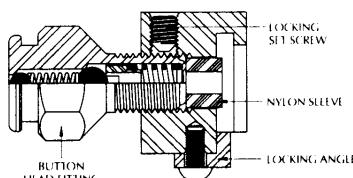


7834
(1/2" NPT)
Standard Hex Head Style
For Service to 10,000 PSI

Auxiliary Fittings for temporary sealing of leaking Giant or Standard Button Head fittings.



AUX 1200
Standard Type

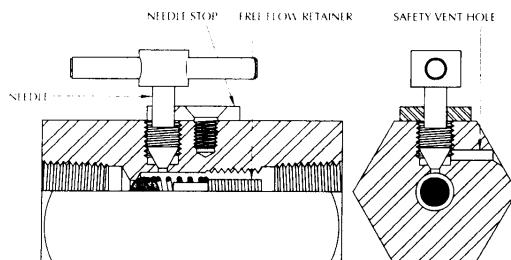


AUX 1200-LO
Nylon Insert / Lock-On Style

AUX 1200
Standard Type



Safe Vent Coupler

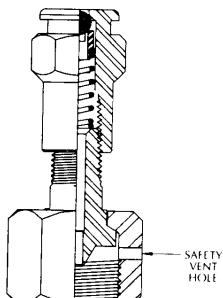


SVC

Grease Gun Lube Adapter with Pressure Release & Check.
Adapts to Grease Gun Hose via 1/4" NPT Female Port.
Can be purchased with or without Lube Adapter.
Available w/ 1" - 14 THD WKM/API
7/8" - 14 THD McEvoy
3/4" - 16 THD Cameron

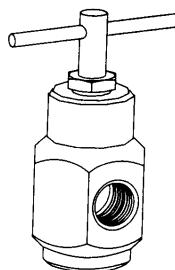
Pressure Gauge

Combination Grease Gun Lube Adapter



1714
with Giant Button Head & Ball Check
Available w/ 1" - 14 THD WKM/API
7/8" - 14 THD McEvoy
3/4" - 16 THD Cameron

Pressure Relief Tool

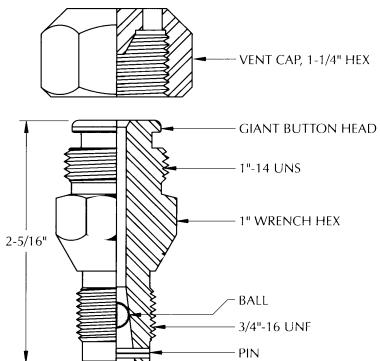


PRT-12
For 1" - 14 UNS Vented Cap Fittings
1/2" NPT Vent Port



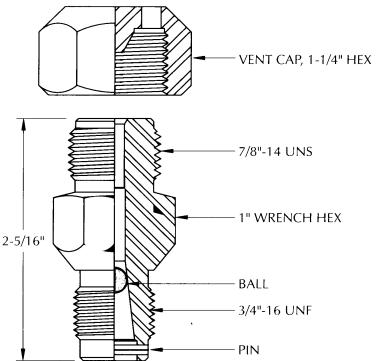
169950
0 - 15000 PSI, Cast Brass,
Glycerin Filled
with Rubber Protector (169951)

Combination Compound Fittings



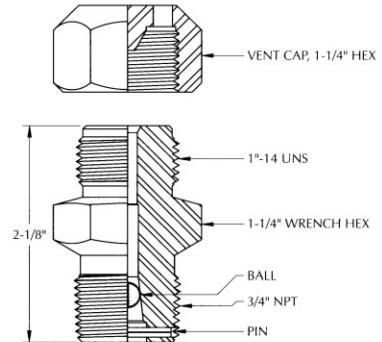
1234B-M114

Compound Fittings



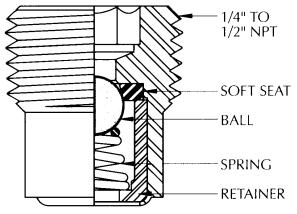
1234-M78

Large Compound Fittings

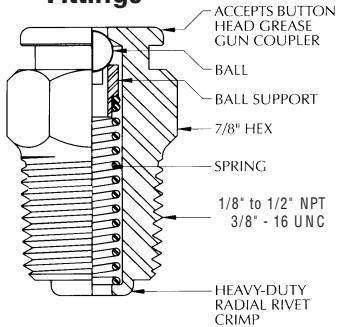


1234-C114

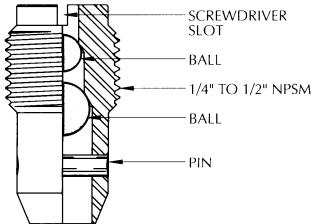
Internal Single Ball Check Fittings Soft Seat, Spring Biased



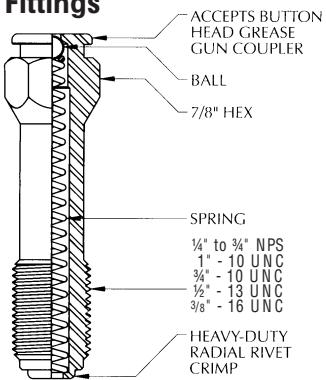
P - Series Single Ball Check Fittings



Internal Double Ball Check Fittings (Floating)

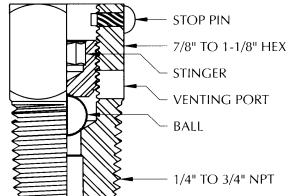


H - Series Single Ball Check Fittings

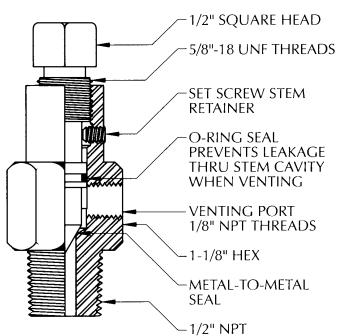
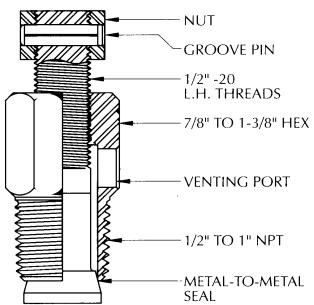


For Service to 10,000 PSI

Body Vent (Bleeder) Fittings Hex Socket Head Style



Optional Style of Body Vent (Bleeder) Fittings



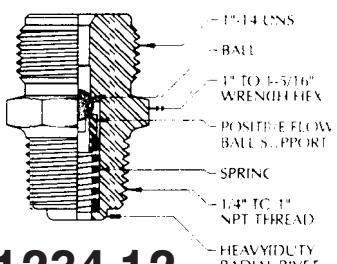
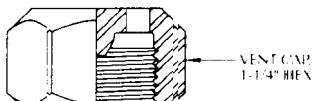
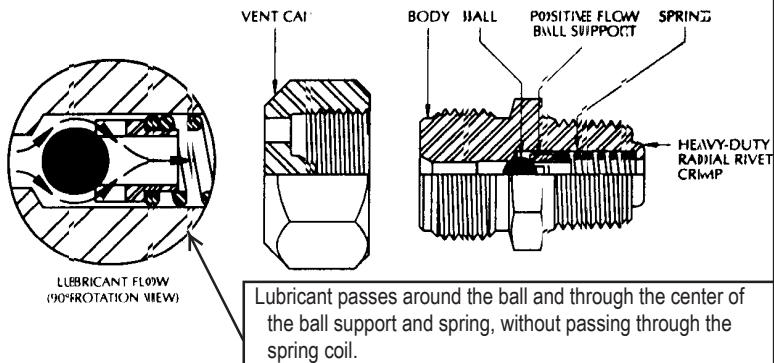
1200PSC-AUX

to fit Giant Button Head
Steel Cone Type for Positive Seal

MOST VALVE FITTINGS ARE AVAILABLE IN 1215, 316SS OR 4140 MATERIALS.

OUR STANDARD BODY GREASE FITTING features the Positive Flow Ball Support. This design directs the flow of the lubricant and/or sealant through the center of the spring without passing through the spring coil, reducing the tendency to "pack-off". The positive Flow Ball Support is available in many other fitting styles.

Another feature of the standard body grease fitting is the heavy-duty radial rivet crimp. This special crimp provides the best "blow-out" protection of any available crimped style fitting. The radial rivet crimp process conforms to the latest revision of NACE.

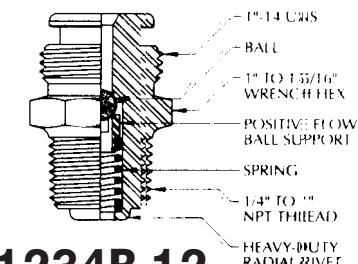
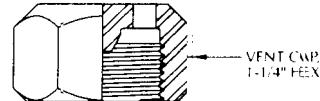


1234-12

Standard Style

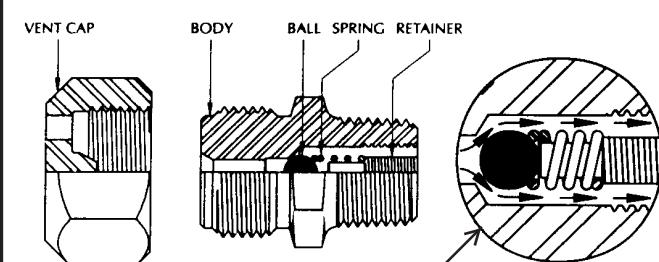
Vented Cap Body Grease Fittings with Positive Flow Ball Support

For Service to 10,000 PSI



1234B-12

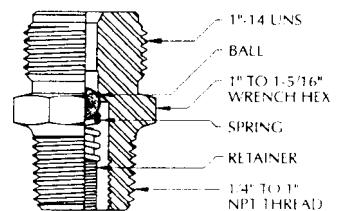
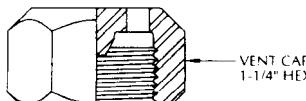
Giant Button Head Style



When the ball is off the seat, lubricant flows unrestricted around the spring and through the openings on the sides of the retainer.

THE PATENTED FREE FLOW FITTING utilizes a unique spring retainer that is threaded into the body of the fitting. This special retainer also acts as a ball support and spring guide, and its design allows the Free Flow of lubricants and sealant around the spring, instead of through it.

- Only unrestricted flow path on the market - the straight-line passageway significantly reduces tendency to "pack off."
- Guaranteed against "Blow Out" when used within design limitations of the fitting. Excellent in extreme cold environments.
- Increased flow rates due to unrestricted flow path.

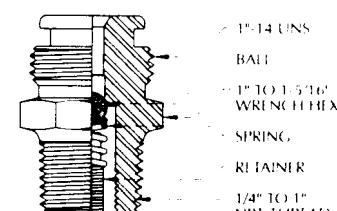
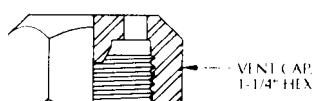


1234-12FF

Standard Style

Free Flow Vented Cap Body Grease Fittings

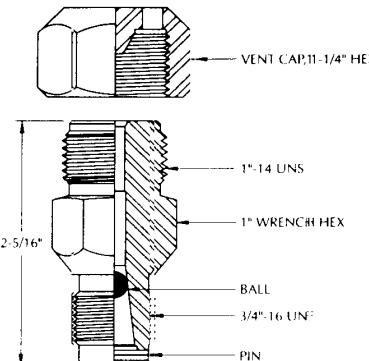
For Service to 10,000 PSI



1234B-12FF

Giant Button Head Style

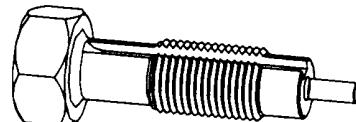
Vented Cap Body Grease Fitting with Floating Ball-Taper Cavity



1234-M114

3/4" - 16 UNF Engagement Thread
1" - 14 UNS Cap Thread

Pressure Relief Tool for Packing Injection Fittings

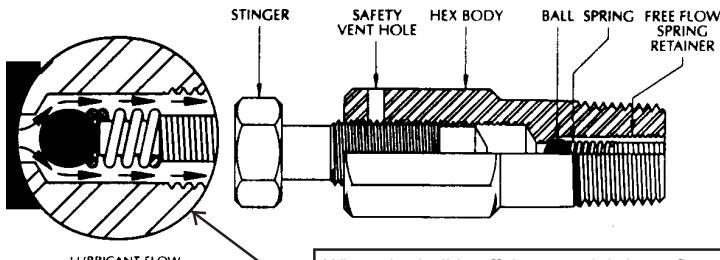


PIBT
(1/2" - 20 THD)

THE PATENTED FREE FLOW DESIGN OF THE BODY GREASE FITTING

has been incorporated into our Packing Injection Fittings. Compared to standard floating ball designs, the Free Flow's specially designed spring retainer allows even the heaviest of lubricants and/or sealant to flow freely through the Packing Injection Fitting.

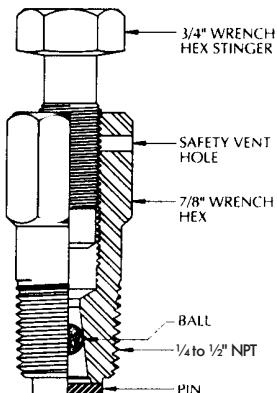
- Positive back seating is provided without relying on the presence of back pressure.
- Guaranteed against "Blow Out" when used within design limitations of the fitting. Excellent in extreme cold environments.
- Meets latest revision of NACE - no cold working of materials.



When the ball is off the seat, lubricant flows unrestricted around the spring and through the openings on the sides of the retainer.

Injection Fitting Daniel Style - Senior Orifice

Packing Injection Fitting Floating Ball-Taper Cavity



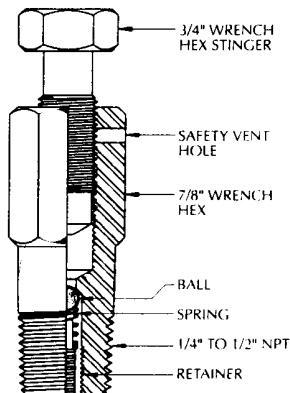
PI-12

(1/2" NPT)

Also Available:

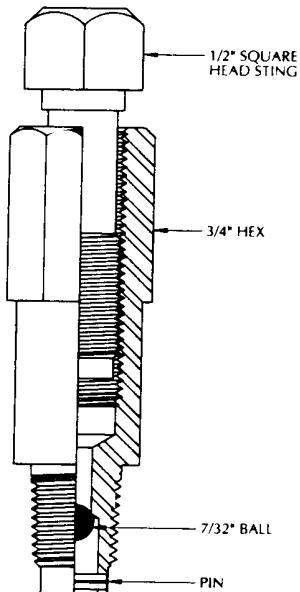
5/8" - 11 & 3/4" - 10 NC

Free Flow Packing Injection Fitting



PI-12FF

(1/2" NPT)



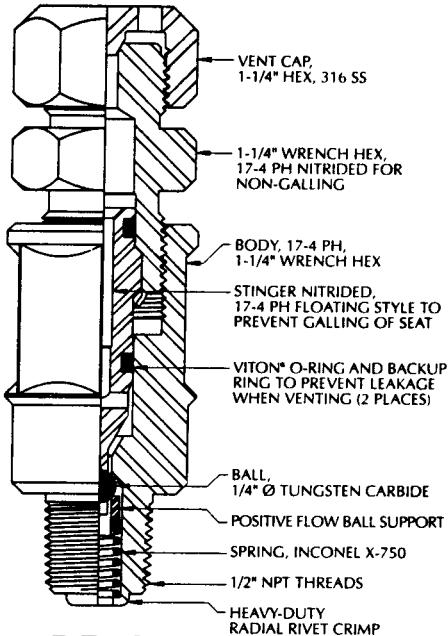
PI-14SS

"Grease Gun" 1/4" NPT

For Service to 10,000 PSI

High Pressure Lubrication & Sealant Fittings

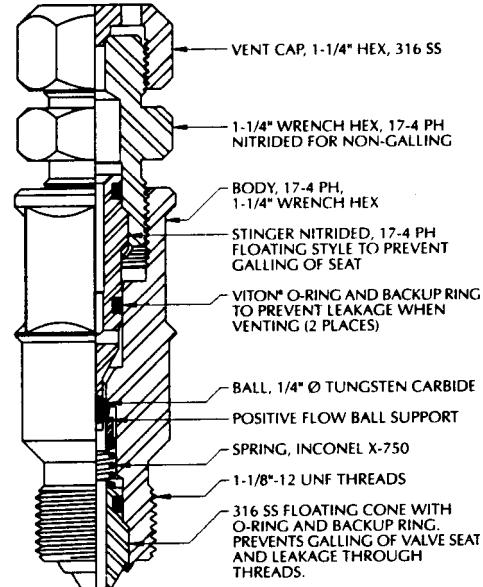
Blowdown Fitting 1/2" NPT



PR-14
WINN BLOW DOWN

For Service to 10,000 PSI

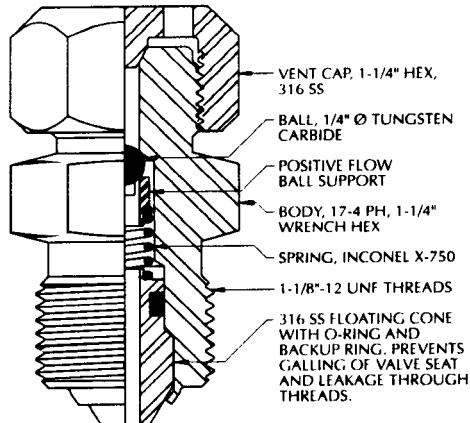
Blowdown Fitting 9/16" Autoclave Style



PR-14AC
WINN BLOW DOWN

For Service to 20,000 PSI

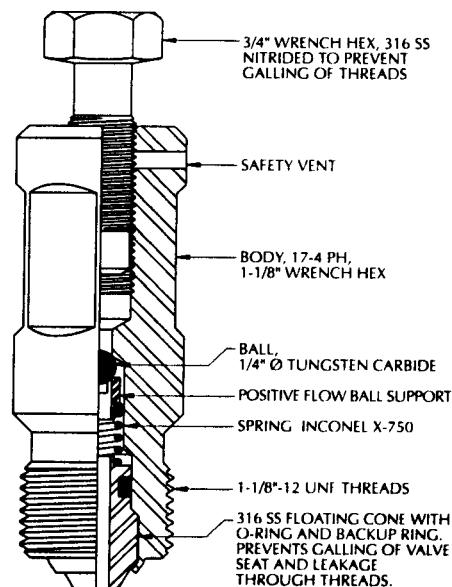
Lubrication (Sealant) Fitting 9/16" Autoclave Style



1236-VC

For Service to 20,000 PSI

Packing Injection Fitting 9/16" Autoclave Style



1236-PI

For Service to 20,000 PSI

CLIMAX VALVE STEM PROTECTORS

Patent No. 2,973,774

CLIMAX Valve Stem Protectors provide complete protection for threads on rising stem gate valves. Each set consists of two sections:

UPPER SECTION: unit has sealed top, slips over threaded stem above hand wheel. Special Neoprene Flexible Fasteners or Stainless Steel Springs clamp it in place securely, yet allow "give" to compensate for force of blows.

LOWER SECTION: unit has two telescoping split sleeves, permitting complete coverage of stem between yoke and packing gland.

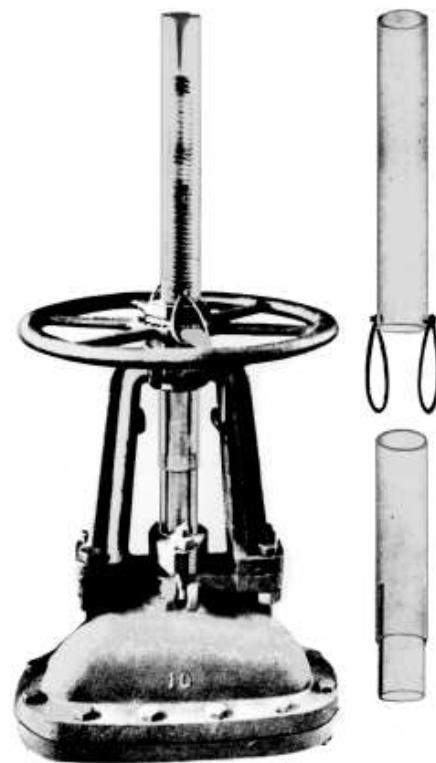
CLIMAX Valve Stem Protectors, made of heavy-duty, clear plastic *Lexan, are resistant to heat, cold, and shock. You can see the position and condition of stem at all times, yet both stem and lubricants are protected from dirt, corrosion, etc. Sizes are available to fit practically every rising stem gate valve.

REGULAR VALVE STEM PROTECTORS WITH STAINLESS STEEL SPRINGS

Description	Set Part #	Upper Part #	Lower Part #
2", 3" & 4" GATE VALVES	C240	C241	C242
6" & 8" GATE VALVES	C680	C681	C682
10" & 12" GATE VALVES	C10120	C10121	C10122
14" GATE VALVES	C14140	C14141	C14142
16" & 18" GATE VALVES	C16180	C16181	C16182
20" & 24" GATE VALVES	C20240	C20241	C20242

All Motor-Operated Gate Valve Protectors Must Be Threaded
Upper Sections Available with Threaded Ends, Standard Pipe Sizes

* G.E. Trademark



CLIMAX VALVE STEM LUBRICANT S-100

There is no finer compound for protecting and lubricating the threads and stems of gate valves. Just brush it on for prevention of rust, corrosion, icing, heat and cold damage. Has natural silver color.



CLEAR PVC PLASTIC STEM PROTECTORS



Description	Part #	Additional Inches
1" N.P.T. X 12'	1310	Over 12" additional charge (per inch)
1½" N.P.T. X 12'	1900	Over 12" additional charge (per inch)
2" N.P.T. X 12'	2375	Over 12" additional charge (per inch)
2½" N.P.T. X 24'	2875	Over 24" additional charge (per inch)
3" N.P.T. X 24'	3500	Over 24" additional charge (per inch)
3½" N.P.T. X 24'	4000	Over 24" additional charge (per inch)
4" N.P.T. X 24'	4500	Over 24" additional charge (per inch)
5" N.P.T. X 24'	5500	Over 24" additional charge (per inch)
6" N.P.T. X 24'	6625	Over 24" additional charge (per inch)

Lexan* or Clear PVC in these sizes

*(Lexan is a G.E. trademark)

Acrylic or Clear PVC in these sizes

Over 6" N.P.T. by Special Order, Call for Prices

DISTRIBUTED BY

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MODELS "10", "40", "120", "10516", "10516-C"
"150 (75:1)", "150 (140:1)", "1699", "1700", "ROCKET 280", "PPSI-550" Etc.

Climax warrants to the purchaser that all products will be free from defects in material and workmanship for twelve months from date of purchase.

Climax products which fail within the warranty period, due to defects in material or workmanship, will be repaired or replaced, at Climax's option; without charge to the purchaser (transportation prepaid). Warranty excludes normal wear items such as giant button head fittings, seals and fluid bags etc.. Also excluded is equipment subjected to corrosion, contamination, negligence, accident, or units which have been altered in any way.

Climax disclaims any liability for consequential damages due to breach of any written or implied warranty on its Climax products.

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Be sure and call Climax for the following:

- Valve Lubricants/Sealants for Plug, Ball & Gate Valves
- Valve Lubrication Equipment: Mechanical, Hydraulic & Pneumatic
- Valve Fittings & Special Adapters
- Valve Lubrication Adapter Kits
- Valve Stem Protectors
- Valve Stem Packing
- Valve Cleaner/Flush
- Kiene Diesel Accessories
- Skid Mounted Lubrication Systems with Gas or Diesel Air Compressors
- Alemite Products
- Lincoln Lubrication Equipment
- Silicone Sealants/Fluids



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