

Seal Material	Other Common Names	Description	Applications	Temperature Range	Option Code
Buna-N	Nitrile, acrylonitrile Butadiene Rubber	An economical soft synthetic rubber with good mechanical performance. Resistant to air, many gases, water, most basic oils (petroleum, mineral oil, vegetable oil), lubricants, some fuels, dilute acids, alkalis, and solvents.	Often used for gaskets and o-rings in pneumatic, hydraulic, vacuum, water, and fuel systems.	-30° F to +250° F	
Dry Air or Gas Service	Molybdenum Disulfide Coated Buna-N, MoS ₂ /NBR	An externally lubricated soft synthetic Buna-N rubber with a lower coefficient of friction for use in dry or non-lube dynamic applications. MoS ₂ /NBR exhibits better mechanical wear properties in non-lube pneumatic applications compared to plain Buna-N.	Used for dynamic gaskets and o-rings in dry pneumatic, vacuum, or gas systems. Use in place of Buna-N for non-lubricated compressed air, dry nitrogen, or other dry gases. Also good for low-pressure applications to reduce seal stiction (stick-slip).	-30° F to +250° F	-25
Viton®	Fluorel®, Technoflon®, (FKM)	A synthetic rubber and fluorocarbon elastomer commonly used in seals, gaskets, and other molded goods. It has a significantly higher density than most types of rubber and is compatible with hydrocarbons, but not ketones such as acetone, methyl ethyl ketone, or ester solvents. It has a high-temperature resistance. Because of its high density, good wear characteristics are exhibited, especially under heavy loads exerted by high pressures.	Used for seals where high temperature and/or chemical resistance are required, and the fluid media is not compatible with Buna-N.	0° F to +400° F	-26
Chemical / High Temp Service	Teflon® + Viton®	Poppet seal and stem seal are made of Teflon® (PTFE) and the balance of elastomeric seals is Viton® (FKM). This combination is best for high temperature and/or high-pressure fluids not compatible with Buna-N or Viton®.	Use with high-temperature and/or high-pressure gases and liquids, phosphate esters, and glycol oils.	0° F to +400° F	-28
Ethylene Propylene	EPR, EPM, NordeI™, Keltan®, Royalene®	A synthetic copolymer of ethylene and propylene with good chemical and temperature properties. It is resistant to chemicals that are phosphate-ester-based including hydraulic fluids, silicone oils and greases, glycol and silicon-based brake fluids, sodium, and potassium alkalis as well as hot water up to 300° F. It is not compatible with petroleum-based lubricants and oils.	Excellent for phosphate-ester fluids, acids, and solvents (such as MEK and Acetone) and where operation at extremely cold temperatures are required.	-70° F to +300° F	-29
Steam Service	Teflon® + EPR + Viton®)	Steam service with high-temperature water. The valve will be outfitted with Teflon® Poppet Seal and Stem Seal, Ethylene Propylene Seal on Poppet Guide, Viton® U-cup on Pilot Piston	100 PSI or less. Consult the factory before ordering any valves for steam service.	0° F to +250° F	-32