

VERTEX ELASTOMER SELECTION GUIDE

POLYMER TYPE	ASTM Desig.	Hardness Range	Tensile Max. PSI	Elongation Max. %	Compression Set	Maximum Temp	Minimum Temp.	Ozone See Below *	Petroleum Hydrocarbons	Tear Strength
Polyisoprene	IR	40 to 80 Shore "A"	3000	700	Excellent	158F	minus 85F	Fair to Good	N/R	Excellent
Natural Rubber	NR	40 to 80 Shore "A"	3000	700	Excellent	158F	minus 85F	Fair to Good	N/R	Excellent
Ethylene Propylene Diene Monomer	EPDM	40 to 80 Shore "A"	2100	550	Good	280F	minus 60F	Excellent	N/R	Good
Styrene Butadiene	SBR	40 to 80 Shore "A"	2500	500	Good	158F	minus 50F	Fair to Good	N/R	Excellent
Neoprene	CR	45 to 80 Shore "A"	2100	500	Good	212F	minus 40F	Good	Fair to Good	Very Good
Nitrile*	NBR	45 to 80 Shore "A"	2000	500	Good	250F	minus 40F	Fair	Excellent	Good

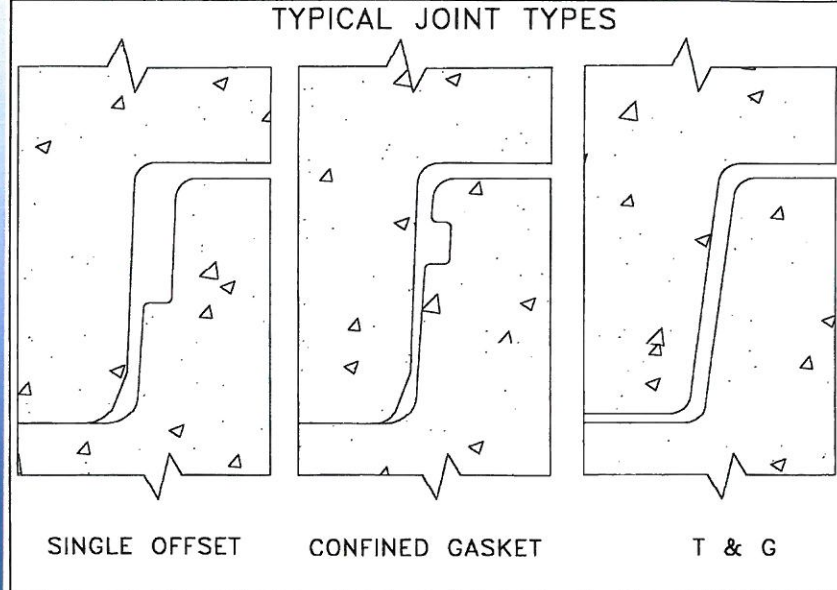
NOTE - Due to inherent resistance properties, Nitrile Gaskets are time consuming, expensive and very difficult to splice.

NOTE - Ozone Resistance can be improved by chemical additions to the rubber compound.



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◆ Joint Design



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"Just like your Attitude, Details matter!"

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We begin with the joint design because the pallets & headers are a result of the joint type. The more sophisticated the joint, the greater the care that has to be taken.

- 1) **Tongue & Groove** joints are straight forward, usually with an exaggerated slope on both surfaces. Usually using mortar mix, a butyl, mastic, or bituminous joint compound in storm sewers!
- 2) The **Confined joint** has been used for many years with O-ring or some profile gaskets. When the joint is to spec, with correct installation methods, this is a very good systems. The key to success in Storm or Sanitary work is the quality of the structure and the lubricated installation.
- 3) **Single Offset** joints are gaining a revived acceptance. Vast improvements in the gaskets and equipment have given this concept new life. Two major factors in the decision to utilize this joint are the possibility to use a shorter spigot and much easier stripping of the headers and pallets. For Storm or Sanitary, this design can give benefits to both the producer and the owner.