



FEP

The most versatile when considering overall corrosion resistance, sealing capability and temperature. Temperature range -450 to + 400 degrees F. (-267 to 205 degrees C)

PFA

A fluorocarbon copolymer similar to FEP but it also offers greatly improved mechanical and creep properties at elevated operating temperatures. Temperature range -450 to +500 degrees F. (-267 to +260 *degrees C*).

Physical Properties of Encapsulated O-rings:

Core material:

Silicon rubber: 85-90A Viton

elastomers: 90-95A

Hollow Silicone Rubber: 75-80A

Water absorption: <0.01

Features:

1. Excellent chemical resistance, is suitable for almost all chemical medium (strong oxidation, reducing solvent);
2. Good corrosion resistance (Strong acid and alkali solvent);
3. Wide temperature range -200°C~260°C; 4. Good compression resistance $\geq 30\%$; 5. Low Coefficient of Friction (only 0.1 ~ 0.2); 6. Good resistance to dissolve ($\leq 0.1\%$) ; 7. High pressure resistance (up to 60Mpa);
8. Excellent sealing persistence , increase 500% life time.

Applications

- CORROSIVE FLUID SEALS
- DISCONNECT PIPING SYSTEMS
- VACUUM SERVICE
- RELIEF AND EMERGENCY VALVES
- LARGE DIAMETER ACCESS COVER.
- PRESSURE VESSELS
- COMPRESSORS
- FACE FLANGE SEALS
- GLASS HEAT EXCHANGER
- DAIRY AND BEVERAGE SERVICE
- BUTTERFLY VALVES

Cross Section Design Data

Cross Section (in.)	Nominal Squeeze (in.)	I.D.Min. (in.)	O.D.Max. (in)
.062±.005	.018	.300	2.50
.070±.005	.022	.300	5.50
.077±.005	.022	.480	5.50
.093±.005	.025	.480	10.0
.103±.005	.025	.480	10.0
.107±.005	.028	.500	10.0
.110±.005	.030	.500	10.0
.115±.005	.030	.500	10.0
.118±.005	.030	.500	10.0
.125±.005	.030	.500	20.0
.135±.006	.030	.500	20.0
.139±.006	.030	.500	20.0
.148±.006	.032	.750	20.0
.158±.006	.032	.750	25.0
.165±.006	.032	1.00	25.0
.170±.006	.035	1.00	25.0
.177±.006	.037	1.00	25.0
.185±.006	.040	1.00	25.0
.194±.008	.040	1.10	25.0
.210±.008	.045	1.10	Any
.220±.008	.045	1.25	Any
.225±.010	.047	1.50	Any

Cross Section (in.)	Nominal Squeeze (in.)	I.D.Min. (in.)	O.D.Max. (in)
.236±.010	.047	1.50	Any
.250±.010	.050	1.75	Any
.275±.010	.050	2.25	Any
.296±.010	.055	3.00	Any
.315±.010	.060	3.25	Any
.335±.015	.065	3.50	Any
.355±.015	.065	3.75	Any
.375±.015	.070	4.00	Any
.395±.015	.070	4.00	Any
.433±.015	.080	7.25	Any
.475±.015	.085	8.00	Any
.500±.015	.100	12.0	Any
.590±.025	.125	15.0	Any
.625±.025	.125	15.0	Any
.750±.035	.200	18.0	Any
.787±.035	.225	25.0	Any
1.00±.050	.250	37.0	Any

Note:

1. Color : red silicon and black viton,
Other special color need communication in advance.
2. Sizes in chart are general,
We also provide customized services,please give the accurate size or drawings.