

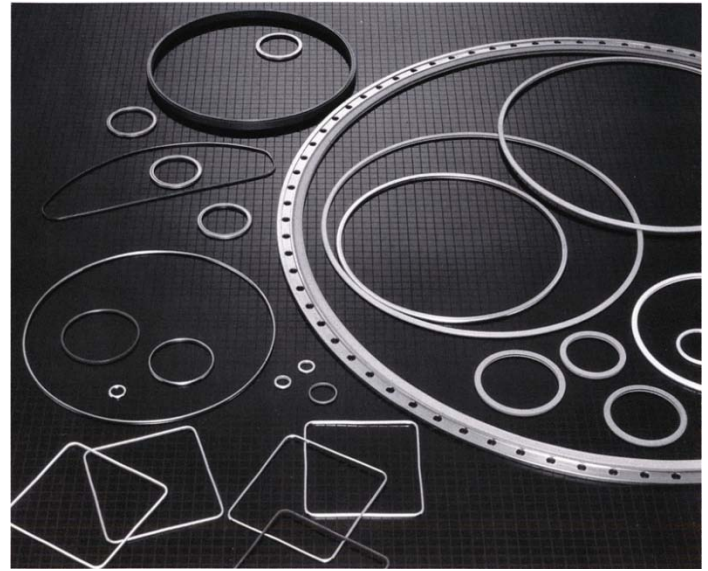
# Metallic Seals for Critical Sealing Applications

**SIMRIT ACTISEAL®** provides reliable performance for sealing under high vacuums, high pressures, cryogenics, extremely high temperatures, etc.

**ACTISEAL®** includes three types of seals; each with different capabilities and characteristics.

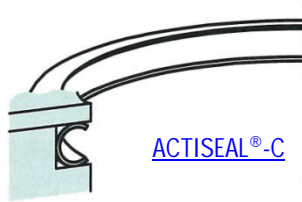
**ACTISEAL®-C** features tight leakage control with a lighter compression load than tradition metal O-rings.

**ACTISEAL®-E** and **ACTISEAL®-W** prove effective against large flange deflections; detailed information is listed below. Simrit also provides custom designs per request. Visit [simrit.com](http://simrit.com) for more information.

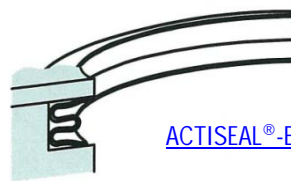


## Major Applications

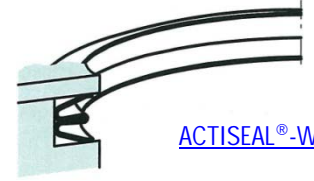
- Aircraft jet engines
- Industrial gas turbines
- High vacuum equipment
- Rocket engines



[ACTISEAL®-C](#)

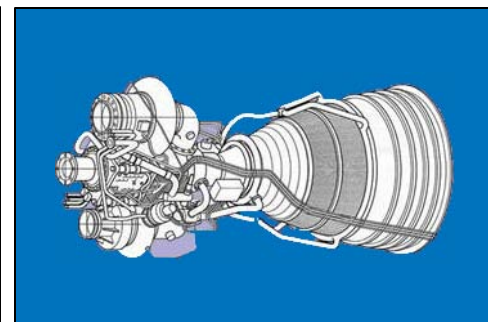
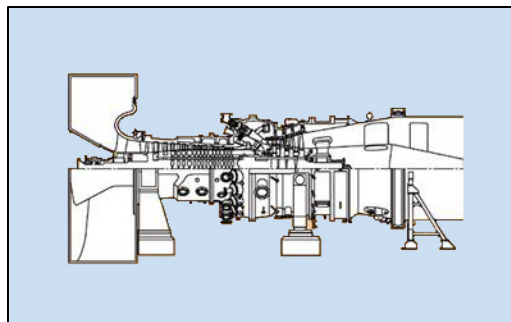
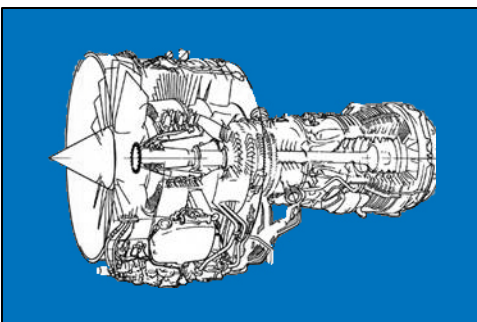


[ACTISEAL®-E](#)



[ACTISEAL®-W](#)

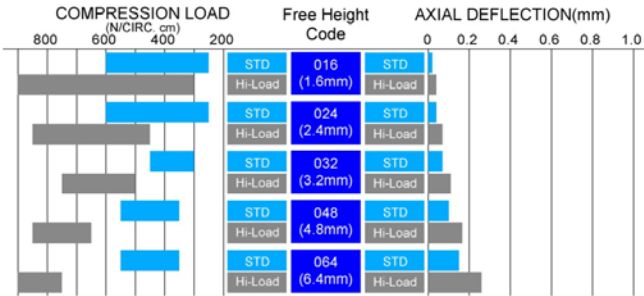
	<b>ACTISEAL®-C</b>	<b>ACTISEAL®-E</b>	<b>ACTISEAL®-W</b>
Temperature Range	-270 to 800 deg C	-270 to 800 deg C	-270 to 800 deg C
Pressure	VACUUM to 300 MPa	50 MPa	50 MPa
Material	Standard: Inconel718 Special: Waspaloy, etc.	Standard: Inconel718 Special: Waspaloy, etc.	Standard: Inconel718 Special: Waspaloy, etc.
Surface Treatment	Standard: Silver Plating Special: In, Gold, Ni Plating, etc.	None	None
Characteristics	Low leakage (Very tight leakage control)	High capability for large flange deflection	High capability for large flange deflection
Size	Dia. 6 to 1400 mm	Dia. 20 to 1400 mm	Dia. 20 to 1000 mm
Flange Deflection Capability	Approx. 0.02 to 0.25 mm	Approx. 0.7 mm MAX	Approx. 1.7mm MAX
Compression Load	250 to 950 N/CIRC. cm	100 to 350 N/CIRC. cm	50 to 150 N/CIRC. cm



## ACTISEAL®-C

- Unique "C"-shape cross section
- Internal and external pressure designs
- Lower compression and retention force than metal o-rings
- Energized under pressure
- Optional surface coatings available to increase sealing capability
- Absorbs flange deflection up to 0.25 mm

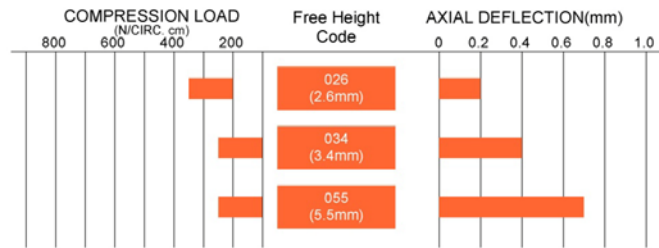
### Compression Load & Axial Deflection



## ACTISEAL®-E

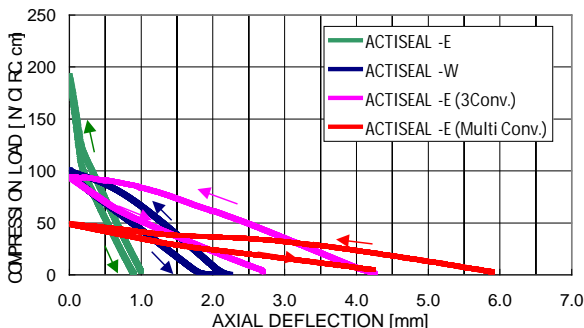
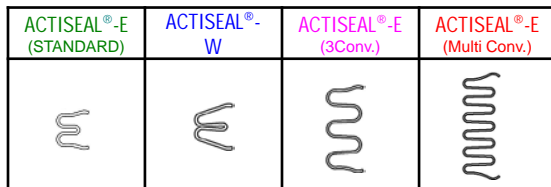
- Unique "E"-shape cross section
- Internal and external pressure designs
- Higher seal height accepts greater flange deflection
- Can be reinstalled after disassembly
- Ideal for high pressure/high temperature applications

### Compression Load & Axial Deflection



## ACTISEAL®-W, ACTISEAL®-E (MULTI)

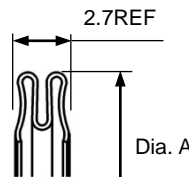
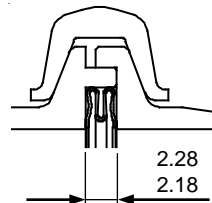
- Flexible designs accommodate high surface movement
- ACTISEAL®-W provides high flexibility
- ACTISEAL®-E (multi) for "vital high flex" conditions.
- Well suited for ducting case seal in aviation engines



## ACTISEAL®-E for AS1895 Flange

Specially sized ACTISEAL®-E are listed below to fit all AS1895 (number -100 to -750) flange.

ACTISEAL®-E are manufactured from unplated Inconel718, solution annealed and aged-hardened. Other high strength/higher temperature nickel alloys are available including Waspaloy.



AS1895 FLANGE SIZE	ACTISEAL-E PART NUMBER	SEAL Dia. A MAX
100	E7N-027N25R0-00317	31.7
125	E7N-027N25R0-00381	38.1
150	E7N-027N25R0-00444	44.4
175	E7N-027N25R0-00508	50.8
200	E7N-027N25R0-00571	57.1
225	E7N-027N25R0-00635	63.5
250	E7N-027N25R0-00698	69.8
275	E7N-027N25R0-00762	76.2
300	E7N-027N25R0-00825	82.5
325	E7N-027N25R0-00889	88.9
350	E7N-027N25R0-00952	95.2
400	E7N-027N25R0-01079	107.9
450	E7N-027N25R0-01206	120.6
500	E7N-027N25R0-01333	133.3
550	E7N-027N25R0-01460	146.0
600	E7N-027N25R0-01587	158.7
650	E7N-027N25R0-01714	171.4
700	E7N-027N25R0-01842	184.2
750	E7N-027N25R0-01968	196.8

[UNITS:mm]

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