

**V1238-95 O-ring from
Parker Seals (O-Ring Division)**

**BS EN ISO 23936-2 [ISO23936-2:2011(E)]
(Rapid gas decompression resistance)**

PASSED

Test gas:	90/10 mol% N ₂ / CO ₂
Test temperature:	100 ±2 °C
Test pressure:	150 bar (15 MPa)
Number of cycles:	8
Decompression rate:	20.7 bar/minute
Seal Size:	312 (ISO 3601-1/AS 568)

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Senior Scientist

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Date

Element Hitchin has been assessed to BS EN ISO 9001 by the British Standards Institution (BSI) and is a registered firm under the BSI Quality Assurance scheme for the provision of professional and technical services.



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Element Hitchin verify that O-rings in compound **V1238-95** manufactured by Parker Seals (O-Ring division) have been subjected to a multi-cycle RGD test under the conditions detailed below.

RGD TEST COMMISSIONED BY

Parker Seals (O-ring Division)

SEAL COMPOUND DETAILS

Seal Manufacture	Parker Seals	
Supplied by	Parker Seals (O-ring Division)	
Compound name/number/reference	V1238-95	
Elastomer type to ASTM D1418	FKM	
Lot/Batch No.	B/N - 80204789	
Seal type	O-ring	
Manufacturing method	Not disclosed	
Seal size (ISO3601-1/AS 568)	312	
CSD (nominal)	mm	5.33
Mean CSD (actual, radial)	mm	5.31

RGD TEST CONDITIONS

Temperature	°C	100±2
Pressure	MPa (bar)	15 +1/-0.5 (150 +10/-5)
No. of cycles		8
Dwell between cycles	hour	1
Decompression rate (average)	MPa/min (bar/min)	2.07 (20.7)
Gas type	mol%	90/10 N ₂ /CO ₂

SEAL HOUSING DETAILS CONDITIONS

Seal compression direction	Radial	
Groove ID	mm	25.40
Groove OD	mm	15.95
Groove width	mm	5.68
Squeeze (average)	%	10.99
Groove fill (area basis)	%	83
Number of seals tested	4	

ISO TEST SEAL RATINGS

SEAL REPLICATE	RATING	PASS/FAIL
1	0000	PASS
2	0000	PASS
3	0000	PASS
4	0000	PASS

OVERALL RATING

PASS

GENERAL

Test laboratory	Element Materials Technology, Hitchin, U.K.	
Test date	30th August - 7th September 2013	
Test gas certified and available	YES/NO	YES
Transducer calibration available	YES/NO	YES
P/T log available	YES/NO	YES

TEST LABORATORY STAMP/SIGNATURE



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