

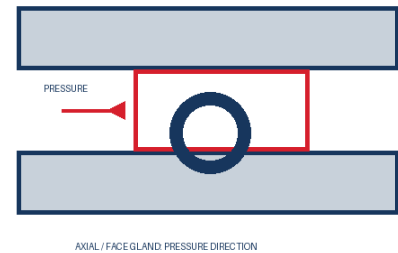
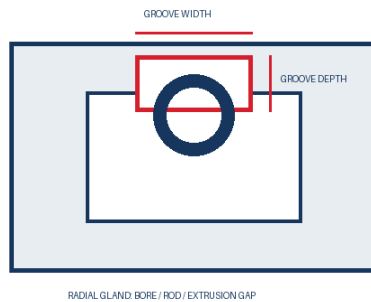
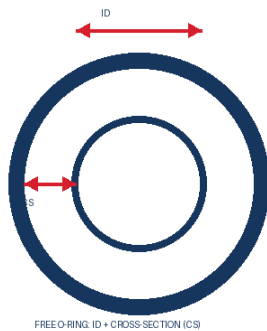
1 CUSTOMER / EQUIPMENT DETAILS

Customer / company	Date
Contact person / telephone / email	Project / enquiry reference
Site / equipment / tag number	Equipment manufacturer / model
Required quantity / delivery date	Drawing / sample / part reference

2 SEAL TYPE & APPLICATION

Duty	Static axial / face	Static radial	Reciprocating	Rotary	Oscillating	Other
Gland location	Piston / bore	Rod / shaft	Face / flange	Boss / tube	Dovetail	Unknown
Application description / sealing function	New design / replacement / failure investigation					

3 O-RING & GLAND MEASUREMENT GUIDE



4 CRITICAL DIMENSIONS & TOLERANCES

O-ring inside diameter (ID)	O-ring cross-section (CS)
Outside diameter (OD), if supplied	Standard / size number (AS568 / ISO 3601 / BS / metric)
Groove inside / outside diameter	Groove width / depth
Bore diameter / rod or shaft diameter	Diametral clearance / extrusion gap
Lead-in chamfer / edge radii	Dimension tolerances / thermal expansion allowance
Calculated squeeze (%) / stretch (%)	Calculated gland fill (%)

5 HARDWARE, SURFACES & ASSEMBLY

Housing / gland material	Mating component material
Dynamic surface finish (Ra / Rz)	Groove base / side finish (Ra / Rz)
Runout / eccentricity / misalignment	Installation method / access / sharp-edge protection
Dimensional, surface or assembly notes	

6 OPERATING CONDITIONS

Media / chemical / trade name	Concentration (%) / pH / additives
Operating temperature range (°C)	Minimum / maximum / transient temperature (°C)
Operating pressure range	Maximum / surge / pulsating pressure
Vacuum level / gas permeability concern	Pressure direction / cycling frequency
Speed (rpm or m/s)	Stroke length / cycle rate / duty cycle
Environment	
Dry	Lubricated
Steam	Gas
	Food / potable
	Outdoor / ozone
	Radiation
Cleaning / sterilisation / CIP / SIP media & cycle	Required service life / leakage limit

7 MATERIAL & CONSTRUCTION REQUIREMENT

Elastomer	NBR	HNBR	EPDM	FKM	FFKM	VMQ	FVMQ	PTFE	Recommend
Compound / manufacturer / colour	Hardness (Shore A) / tolerance								
Construction	Moulded	Vulcanised cord	Encapsulated	Coated	Custom	Other			
Backup ring: material / quantity / position	Lubricant / coating / surface treatment compatibility								

8 EXISTING SEAL & FAILURE EVIDENCE

Existing O-ring size / material / hardness	Installation date / achieved service life					
Observed failure	Compression set	Extrusion / nibbling	Abrasion	Swelling	Hardening	Cracks
Spiral / rolling	Explosive decompression	Chemical attack	Heat damage	Installation cut		
Leak location / operating event at failure	Measured failed-seal ID / CS / hardness / condition					

9 STANDARDS, APPROVALS & SUPPLY

Required	ISO 3601	AS568	FDA	EC 1935/2004	WRAS / potable	USP Class VI	NORSOK
Other approval / customer specification / test report	Packaging, identification, traceability / certificate						
Preferred material or "recommend"	Quantity / spares / kit arrangement						

10 RECOMMENDATION, NOTES & REFERENCES