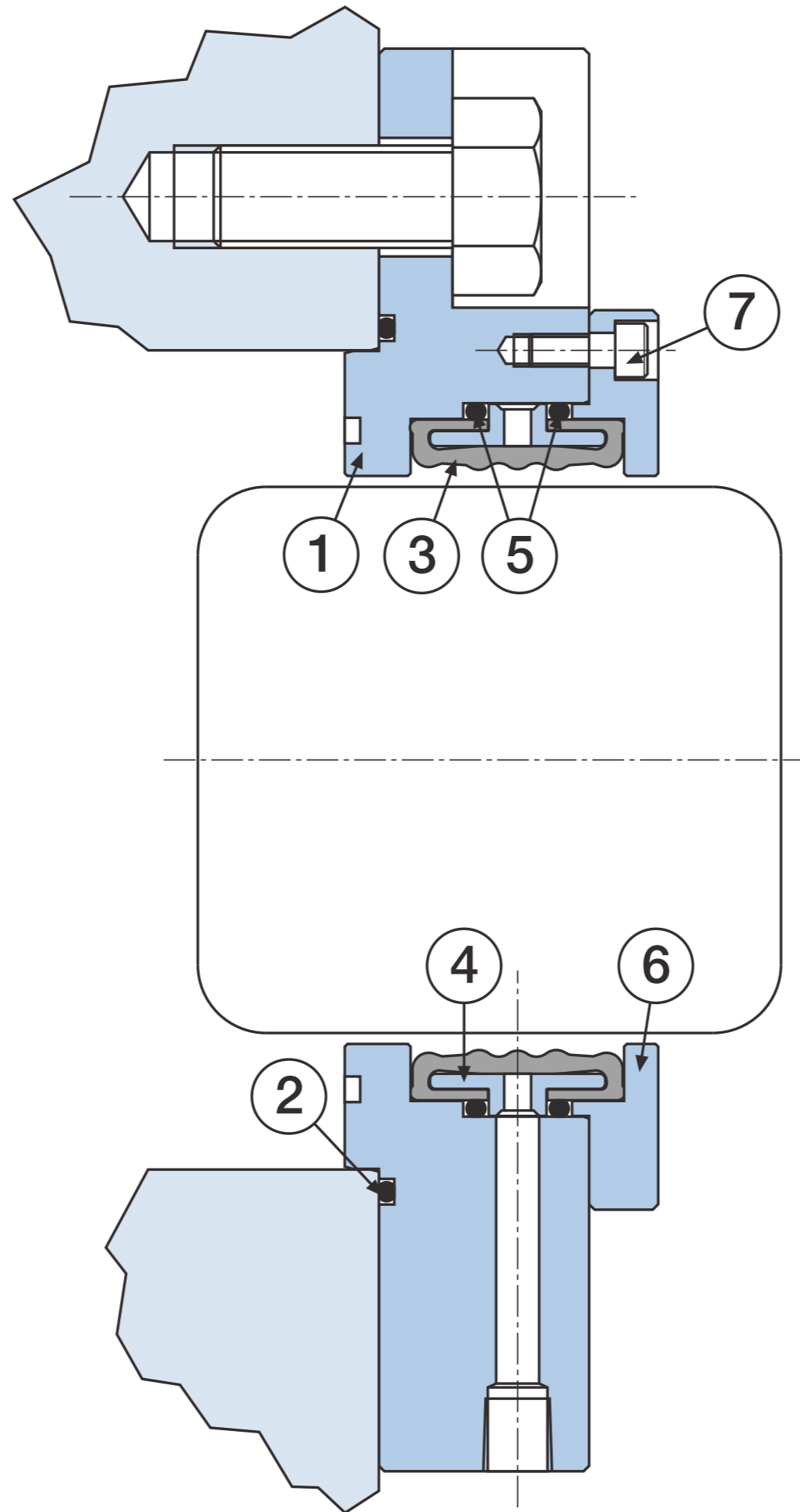


Side view showing RDS™ seal attached to ISOS™ Inflation Shut off Seal.



**Pre-Installation Checks.**

- (i) Shaft Outside Diameter is within tolerance  $\pm 0.002"$  ( $\pm 0.05\text{mm}$ )
- (ii) Shaft run out  $< 0.004"$  (0.1mm) T.I.R.
- (iii) Fluid seal can be obtained on the Stuffing Box face.
- (iv) There are no sharp edges over which the inflatable bladder (3) must sit.

Note: Items 1,3,4,5,6 and 7 are assembled in the factory and all will be called ISOS™ in following instructions..

**Installation instructions.**

1. Insert the Housing O Ring (2) on ISOS™.
2. Insert ISOS™ in the position in correct direction and equally tighten to the Stuffing Box Housing.
3. Rotate the shaft to be sure it is not in contact with the Bladder.
4. Connect the inflating medium supplier pipes on ISOS™ ports.
5. Install the Mechanical Seal in correct direction and equally tighten it to the ISOS™ (follow the installation procedure for each specific Mechanical Seal that is used).
6. To operate/inflate ISOS™ (after Mechanical seal was used), **ALWAYS REMEMBER THE SHAFT MUST NOT ROTATE WHILE ISOS™ IS INFLATED.**
7. After installation of the Mechanical Seal or to run the shaft again, **ALWAYS REMEMBER TO DE-INFLATE THE ISOS™ BEFORE RUNNING THE SHAFT**

Item	Description	Material
1	Main Housing	316L Stainless Steel
2	Housing O Ring	Viton - EPR - Kalrez - Aflas
3	Inflatable Bladder	EPDM - Nitrile - Viton
4	Inner Ring	316L Stainless Steel
5	Bladder O Ring	Viton - EPR - Kalrez - Aflas
6	Cover Plate	316L Stainless Steel
7	Caphead Bolt	Stainless Steel



**ISOS™**  
Inflatable Shut Off Seal

INSTALLATION INSTRUCTIONS

**AESSEAL plc**  
Mill Close, Bradmarsh Business Park  
Rotherham S60 1BZ  
ENGLAND

email [info@aesseal.co.uk](mailto:info@aesseal.co.uk)  
tel +44 (0) 1709 369966  
fax +44 (0) 1709 720788

[www.aesseal.com](http://www.aesseal.com)

