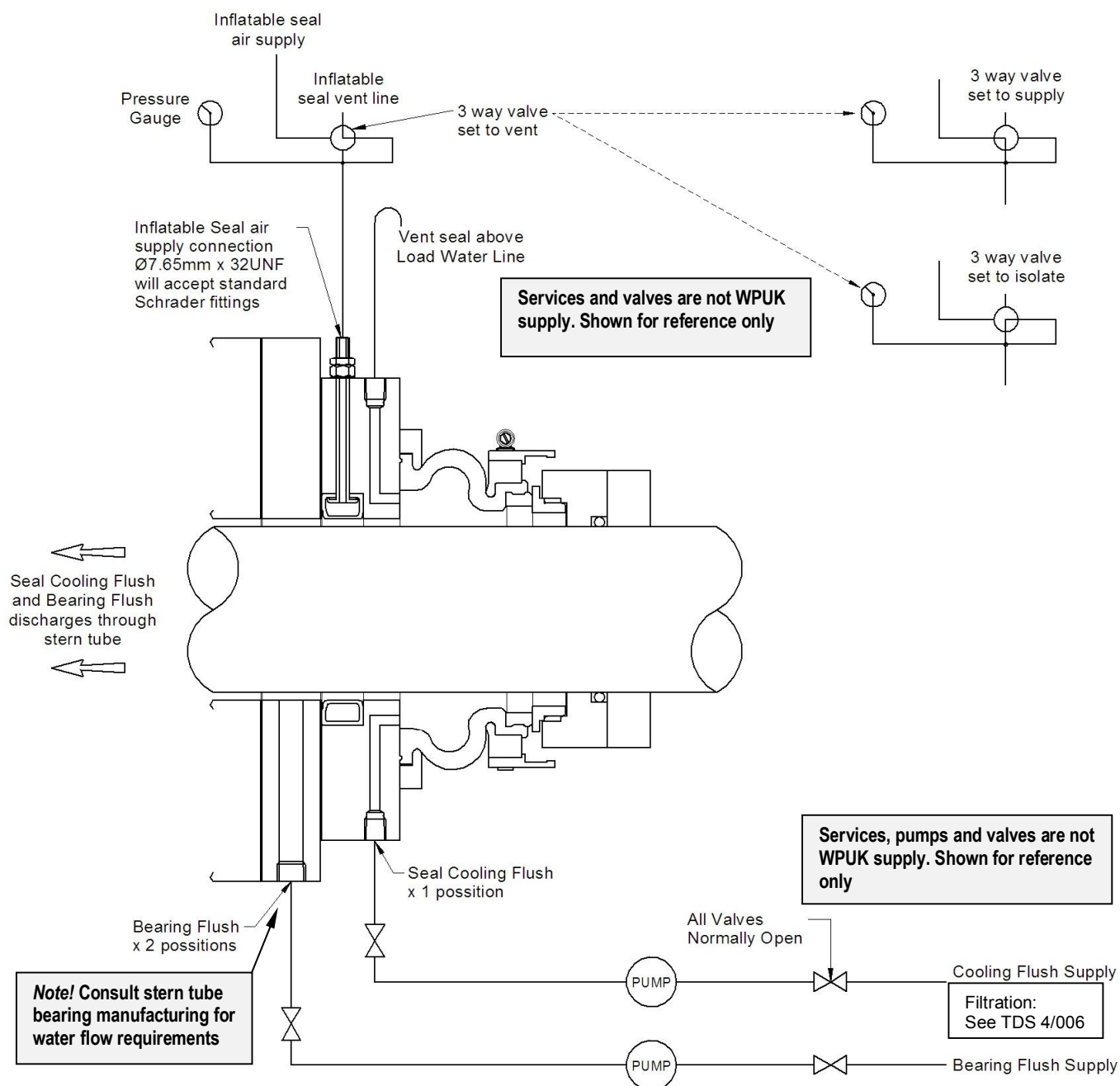


INFLATABLE SEAL OPERATION

The normal procedure to activate the inflatable seal is to use the flexible adapter supplied in the tool kit. The adapter is fitted with a non-return valve to prevent the seal from deflating.

Removal of the adapter deflates the seal and provides a vent to atmosphere. Under no circumstances must a cap or plug be fitted to the inflatable seal connection. The adapter must be disconnected before rotating the shaft and must only be fitted with the shaft **stopped** and **locked**. The inflatable seal must be vented when not in use.

Alternatively the inflatable seal air supply may be "hard piped". The following diagram shows a typical set up for installations requiring a "hard piped" system.



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INFLATABLE SEAL (I.S.) DATA:

MAXIMUM AIR PRESSURE: 6.0 Bar(g) [87 psig] UNLESS OTHERWISE INDICATED ON THE G.A. DRG OR MANUAL

INFLATION PRESSURE: SUFFICIENT PRESSURE MUST BE APPLIED TO THE INFLATABLE IN ORDER TO ACHIEVE ZERO WATER LEAKAGE PASSED IT. (APPROXIMATELY 4 Bar(g))

VENTING THE I.S. THE INFLATABLE SEAL SHALL BE VENTED TO ATMOSPHERE WHEN NOT IN USE (i.e. NON-ACTUATED).

SEAL COOLING WATER REQUIREMENTS:

<i>Cooling water requirements (steady flow)</i>			
Minimum		Maximum	
Metric	Imperial	Metric	Imperial
1 litre per hour per mm of shaft dia	6.7 US gallons per hour per inch of shaft dia	2 litres per hour per mm of shaft dia	13.4 gallons per hour per inch of shaft dia
<i>Example:</i> 230mm diameter shaft requires 230 litres / hour of cooling water	6" diameter shaft requires 40.2 US gallons / hour of cooling water	230mm diameter shaft: maximum flow of 460 litres / hour cooling water	6" diameter shaft requires 80.4 US gallons / hour of cooling water

CONNECTIONS (SEAL):

IMPERIAL SEALS:	Ø3" – Ø5"	=	1/4" NPT (Female)	1 off
	Ø5.25" – Ø10"	=	3/8" NPT (Female)	1 off
METRIC SEALS:	Ø70 – Ø125	=	1/4" NPT (Female)	1 off
	Ø130 – Ø255	=	3/8" NPT (Female)	1 off

THE SEAL INTERNAL WATER PRESSURE SHALL NOT TO EXCEED 1.2 Bar(g) (17.4 PSIG).

CONNECTIONS (SUPPLIED ADAPTOR PLATE):

IMPERIAL SEALS:	Ø3" – Ø5"	=	3/8" NPT (Female)	2 off
	Ø5.25" – Ø10"	=	1/2" NPT (Female)	2 off
METRIC SEALS:	Ø70 – Ø125	=	3/8" NPT (Female)	2 off
	Ø130 – Ø255	=	1/2" NPT (Female)	2 off

CONSULT BEARING MANUFACTURER FOR COOLING / FLUSH WATER FLOW REQUIREMENTS

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