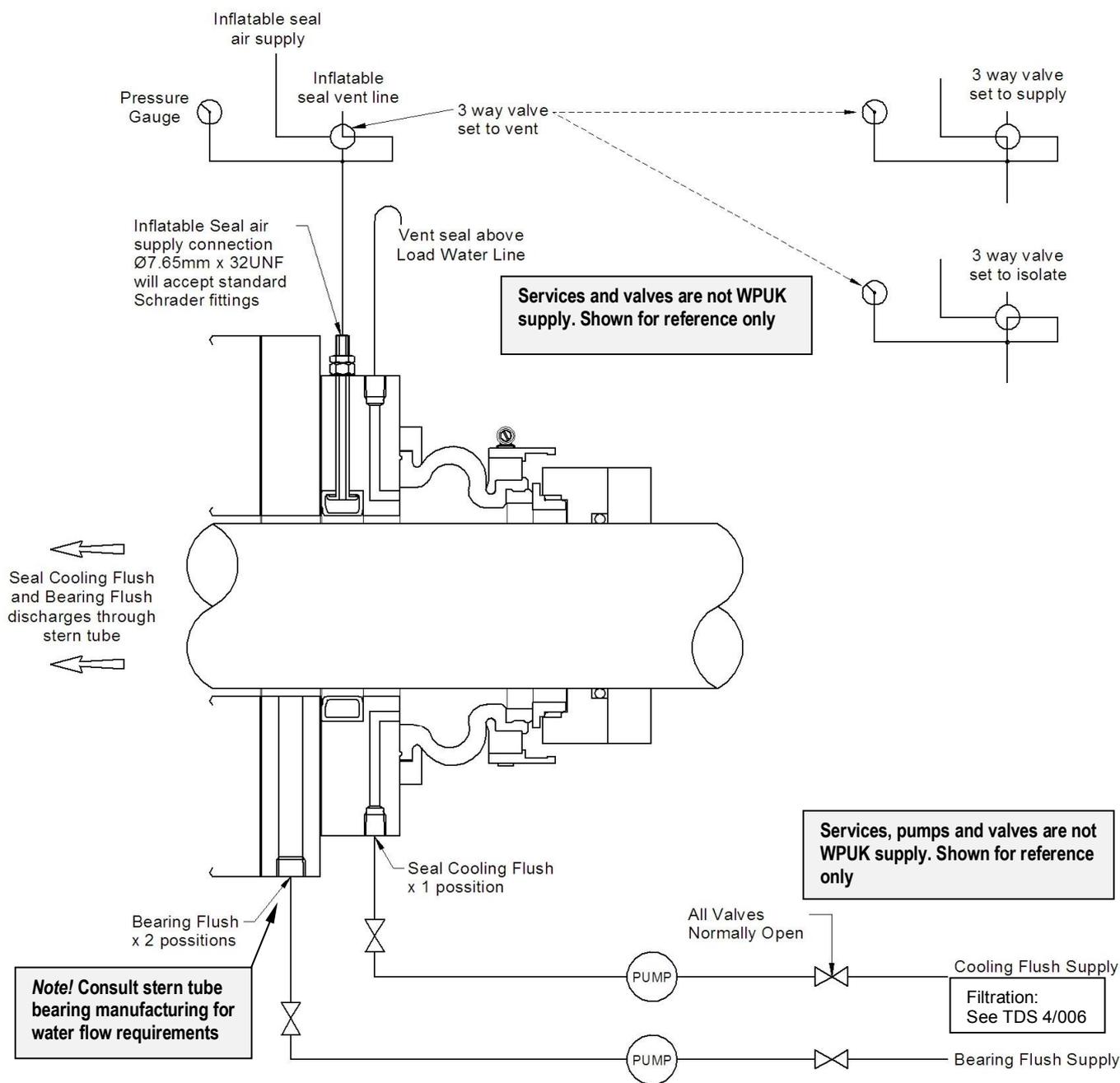


INFLATABLE SEAL OPERATION

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.



Whilst every care has been taken to ensure accuracy in the Text and Data, of the following sheets, no liability will be accepted for errors or omissions, and we reserve the right to change without notice.

Copyright © 2007 Deep Sea Seals Ltd. All Rights Reserved

Registered Office: Deep Sea Seals Ltd., Havant, Hants, PO9 1NX. Registered Number: 1004816

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:***Cooling water requirements (steady flow)***

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

Whilst every care has been taken to ensure accuracy in the Text and Data, of the following sheets, no liability will be accepted for errors or omissions, and we reserve the right to change without notice.

Copyright © 2007 Deep Sea Seals Ltd. All Rights Reserved

Registered Office: Deep Sea Seals Ltd., Havant, Hants, PO9 1NX. Registered Number: 1004816