## AAR Manual of Standards and Recommended Practices Specifications for Tank Cars

## APPLICATION FOR APPROVAL OF VALVES, CLOSURES, AND FITTINGS

Applicant Kolso Technotogles Inc.
AAR No. E162113

Description of Device 2 Anglo Valvo


## TEST PROCEDURE

5. Description of prototype testing: High and Low Temp. Testing (190F \& -20F); Shock and Vibration; High and Low pressure testing at different temps. seat and body housing structural integriv. The same tests below were conducted at room temp. (75F) for same pressures-Nolssues or leaks

| 6. Cycles <br> 10 <br> 10 | $\begin{gathered} \text { Min. Temp. } \\ -\frac{20}{-28}{ }^{\circ} \mathrm{F} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { @ Pressure } \\ & 500 \quad \text { psi } \\ & \hline 3447 \_\mathrm{kPa} \end{aligned}$ | $\begin{gathered} \text { Cycles } \\ 10 \\ \hline 10 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Max. Temp. } \\ 190 \quad{ }^{\circ} \mathrm{F} \\ \hline 88 \\ \hline \end{gathered}$ | $\begin{aligned} & \text { (a) Pressure } \\ & 500 \_p s i \\ & \hline 3442 \mathrm{kPa} \end{aligned}$ | $\begin{aligned} & \text { Test Medium } \\ & \text { Nitrogen } \\ & \hline \text { Nitrogen } \end{aligned}$ | Remarks <br> No Leaks |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Cycles } \\ & 10 \\ & 10 \end{aligned}$ | Min. Temp.  <br> $-20 \quad$ ${ }^{\circ} \mathrm{F}$ <br> -28 ${ }^{\circ} \mathrm{C}$ | $\begin{aligned} & \text { @ Pressure } \\ & 30 \quad \text { psi } \\ & \hline 206 \_\mathrm{kPa} \end{aligned}$ | $\begin{gathered} \text { Cycles } \\ 10 \\ \hline-10 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Max. Temp. } \\ 190 \quad{ }^{\circ} \mathrm{F} \\ \hline 88 \\ \\ \hline \end{gathered}$ | $\begin{aligned} & \text { (3) Pressure } \\ & \quad 30 \quad \mathrm{psi} \\ & \hline 206 . \mathrm{kPa} \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { Test Medium } \\ \text { Nitrogen } \end{array} \\ & \hline \text { Nitrogen } \\ & \hline \end{aligned}$ | Remarks <br> No Leaks |
| Cycles <br> 10 <br> 10 | Min. Temp. <br> $-40 \quad{ }^{\circ} \mathrm{F}$ <br> -40${ }^{\circ} \mathrm{C}$ | $\begin{gathered} \text { @ Pressure } \\ 500 \quad \text { psi } \\ \hline 3447 \_\mathrm{kPa} \end{gathered}$ | $\begin{gathered} \text { Cycles } \\ 10 \\ \hline 10 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Max. Temp. } \\ -190 \quad{ }^{\circ} \mathrm{F} \\ \hline 88 \quad{ }^{\circ} \mathrm{C} \end{gathered}$ | $\begin{aligned} & \text { @ Pressure } \\ & \quad 500 \quad \mathrm{psi} \\ & \hline-344 \_\mathrm{kPa} \end{aligned}$ | $\begin{gathered} \begin{array}{c} \text { Test Medium } \\ \text { Nitrogen } \end{array} \\ \hline \text { Nitrogen } \\ \hline \end{gathered}$ | Remarks No Leaks |

7. Commodity: Regulated Commodity $x$ Noa Regulated Commodity $\frac{x}{}$ Specific Commodity
8. Flow rate (if applicable) $\qquad$ gpm ( L/min)

(Signature) on behalf of TankCar Committee

APPROVAL AAR Tank Car Committee Service Completed/ Not Required
Date Service Trial Completed
Date AAR Received Form AAR 4-6 $\qquad$
Date Approved $\qquad$
Expiration Date $\qquad$
(Signatare) on behalf of Tank Car Committee

## Form AAR 4-5 Revised 102014

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Fig. 1.4 Form AAR 4-5 Application for Approval of Valves and Filtings

