| FLANGE GUARDS | Hydrostatic Pressure Test | Rev : 001 |
|---|---|---|
| | Approved by : | Date : 9th AUGUST 2016 |

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| Customer PO number : 0371122 |
| Flangeguards PO number : 98863 |

Summary

All five PTFE-Clear shields were tested at a pulsating pressure, averaging at 25Bar for one minute each.

Every shields stopped direct spray and mist formation with no sections of the PTFE or ECTFE compromised.

Test Shield No. 3 was tested beyond the average 25Bar pressure, up to 60Bar. Only at this point did the ECTFE material create a 'pimple' but even then, no hole was created.

All test shields passed this Hydrostatic Pressure Test

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| Test date: | 9th AUGUST 2016 |
| Test performed by: | JEFF HARWOOD |
| Signature : | |

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| Sample # | Part number | Material | Size | Test pressure | Pass / Fail |
|---|---|---|---|---|---|
| 1 | FG-PTFE.CL-600-2" | PTFE + ECTFE | 600lb 2" WIDE | 25 BAR | PASS |
| 2 | FG-PTFE-CL-600-2" | PTFE + ECTFE | 600lb 2" WIDE | 25 BAR | PASS |
| 3 | FG-PTFE.CL-600-2" | PTFE + ECTFE | 600lb 2" WIDE | 25 BAR | PASS |
| 4 | FG-PTFE.CL-600-2" | PTFE + ECTFE | 600lb 2" WIDE | 25 BAR | PASS |
| 5 | FG-PTFE.CL-600-2" | PTFE + ECTFE | 600lb 2" WIDE | 25 BAR | PASS |
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**Leak design :** We use a 3mm Ø hole in a st/st ring. This would cause the highest velocity leak path for a given pressure. A jet at this size has the capacity to do physical harm (at higher pressures) as well as create a jet spray over the largest distance. Thus causing a large cloud / mist of flammable, toxic (or at worst both) liquid which could cause harm to employees, fires, risk of explosion, etc, etc. A small high velocity leak also creates the greatest challenge for the shield as it has to withstand the physical nature of a high pressure jet trying to cut through the material. And it also demonstrates the flange guard's ability to control the leak path and contain it to a specific area.

**We certify that the goods supplied for the above referenced order have been manufactured, inspected and tested in accordance with the specification contained in your above referenced Purchase Order and/or the applicable Flangeguards Quotation.**

**Flangeguards** certifies that the referenced items were hydrostatically to the limits specified below

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|---|---|
| All units were tested for a period of : | 60 SECONDS PER SHIELD |
| Test date : | 9th AUGUST 2016 |
| Test performed by : | JEFF HARWOOD |