



# Energy & Transportation Design Appraisal Document

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Date  
**16 August 2007**

Quote this reference on all future communications  
**NAO 0202032/002/Lined Plug Valve/issue 0/BRG**

Manufacturer:  
FluroSeal, Inc.  
1875 46<sup>th</sup> Avenue,  
Montreal, Quebec H8T 2N8, Canada.

Authorised Representative within the Community:  
FluroSeal Europe B.V.  
Lars Olde Heuvel, Managing Director  
P.O. Box 40075, NL-7504 RB Enschede, The Netherlands

Subject:  
Lined Plug Valves  
Size: 1 ½" thru 8"  
Pressure rating: ASME 150 class.  
Temperature range: minus 29 deg C thru. 232 deg C

This appraisal does not include actuators.

1. The documents listed below have been examined for compliance with the requirements of the pressure equipment directive 97/23/EC for the design conditions stated on the submitted document:

All equipment: Pressure Accessory: *Category III*  
Conformity assessment: Module H

Primary Design Code:

ASME B 16.34 2004  
ASME B 31.3 2004  
ASME B & PV Code 2004 Addenda 2006  
(Pressure temperature limits as per material group, per respective code).

All materials of construction must comply with Annex I of the directive.

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Document No.	Revision	Title	Status	Date
E-TCF-0002	0	Lined Plug Valve	B	16 Aug 2007

The information submitted has been taken as an example design package for the pressure equipment of the range covered by this PED (97/23/EC) / PER (SI 1999: 2001 & SI 2002: 1267) application. Based on the content of the package it is considered that the client's design process output control complies with the requirements of the PED (97/23/EC) / PER (SI 1999: 2001 & SI 2002: 1267) for Module H.

**PARTICULAR MATERIAL APPRAISAL**

Under the provisions of the directive particular material appraisal has been carried out for the following material and is considered acceptable:

Material Specification revision level ( )	ASME code/ material group B	Temp. °C		Notes
		Maxi	Mini	
	<b>16.34</b>			
ASTM A216 WCB (0)	1.1	316	-29	
ASTM A193 B7, B7M (A)	4	316	-29	
ASTM A193 B8, B8M class1 (A)	4	316	-29	

**DESIGN TECHNICAL CONSTRUCTION FILE CONTENTS**

- Scope & General description
- Categorization
- Drawings
- Design Calculation
- Risk Assessment
- Bill of Material
- Particular material appraisal
- Sample Declaration of conformity
- Operating & maintenance instructions
- Essential safety requirements



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**Appraisal Status Key**

Industry  
 B                      Examined

Lloyd's Register Verification Ltd.: Notified Body No. 0038

**Distribution:**

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DAD  
 Tech File + DAD

This document does not supersede any previous document.