



**ABS GROUP LIMITED
THE PRESSURE EQUIPMENT DIRECTIVE
EC TYPE-EXAMINATION CERTIFICATE**

CERTIFICATE NUMBER: 0528-2002-002-PED-T

OFFICE: LONDON

This is to certify that ABS Group Ltd, a Notified Body appointed under the requirements of the Pressure Equipment Directive 97/23/EC and The Pressure Equipment Regulations 1999 of the United Kingdom, did undertake an EC Type Examination of the subject equipment in accordance with the requirements of the said Directive and Regulations. The equipment was found to be in compliance.

This certificate is issued to: Circle Seals Controls, Inc.

Address: 2301 Wardlow Circle
Corona
CA 92880
United States

Description of the equipment: 5300 Series Relief Valves

Type: Safety Relief Valves

Standard: ASME/ANSI B31.1

Maximum allowable pressure: 3074 psi (211.9 bar): Gas Service
9850 psi (679.13 bar): Liquid Service:
5300-4-BB, 5300-4-G1G1 & 5300-6 BB brass models only
10500 psi (723.95 bar): Liquid Service:
5300-8-BB brass model only
8450 psi (58.26 bar): Liquid Service:
5300-12-BB brass model only
9000 psi (620.53 bar): Liquid Service:
5300-2-PP brass model only
9200 psi (634.32 bar): Liquid Service:
5300-4-PP brass model only
10500 psi (723.95 bar): Liquid Service:
5300-4-BB, 5300-6-BB, 5300-8-BB, 5300-12-BB &
5300-4-G1G1 stainless steel models only
10100 psi (696.37 bar): Liquid Service:
5300-2-PP stainless steel model only
10325 psi (711.88 bar): Liquid Service:
5300-4-PP stainless steel model only

Maximum allowable temperature: 350°F (176.67°C) (Stainless Steel)
100.4°F (38°C) (Brass)



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Minimum allowable temperature: -20°F (-29°C)
Capacity / Nominal Diameter: 5300-BB Series:
5300-4, 5300-6, 5300-8 & 5300-12
5300-PP Series:
5300-2 & 5300-4
5300-G1G1 Series:
5300-4
Category under the Regulations: IV

Prototype Examined:

Equipment: Relief Valve
Type: PED5349B-2PP-A
Serial Number: 1
ABS Group Ltd. report numbers: 2002-6260-H
Maximum allowable pressure: 1525 psi
Maximum allowable temperature: 350°F brass
100°F stainless steel
Minimum allowable temperature: -20°F
Capacity / Nominal Diameter: ¾" NPT Male inlet

Technical Documents Reviewed:

Refer to Attached Schedule

Name of representative: Michael Cooper
Date of Issue: 17 December 2002
Date of Expiry: 16 December 2012

Signature:



ABS GROUP LIMITED THE PRESSURE EQUIPMENT DIRECTIVE SCHEDULE TO TYPE EXAMINATION CERTIFICATE

REFERENCE NUMBER: 11112069

DATE: 17 December 2002

Technical Documents Reviewed:

Technical Documentation CheckSheet
5300 series Relief valves Summary Page
Catalogue Pages
Stress Calculations
PED rating
Operating & Installation Instructions
Hazard Analysis No. 500
5300-***
5300-4BB
5300-6BB
5300-8BB
5300-12BB
5300-16BB
5300-8JJ
5300-4LL
5300-2PP
5300-4PP
5300-8VV
5300-4G1G1
20004 Poppet
26191 Poppet
12530 Body
20000 Body
20010 Body
20011 Body
20012 Body
20014 Body
20015 Body
20020 Body
20022 Body
20024 Poppet
26190 Poppet
26902 Body
41552 Body
PED5300 sheet 1
PED5300 sheet 2
National Board Test Report 16314A
Particular Material Appraisal: ASTM B16
Particular Material Appraisal: ASTM A479 316

TSZ-105-99-P02 Check Sheet A

Rev A
02/07/02
Rev B
Rev C
Rev D
Rev C
Rev C
Rev C
02/07/02
Rev A
Rev D
Rev F
Rev C
Rev C
Rev B
10/12/90
9/9/81
Rev A
11/8/94
9/9/81
2/1/85
5/5/82
Rev B
8/11/89
99/08/12
Rev A
98/03/30
10/19/92
02/07/03
02/05/06
02/05/06
13 December 2002
16 October 2002
16 October 2002

M. H. Cooper
For ABS Group Ltd.