

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

CERTIFICATE NUMBER:

0528-2002-006-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:

HP500 Series Relief Valves

Type:

Safety Relief Valves

Standard:

ASME/ANSI B31.1

Maximum allowable pressure:

200 psi (13.79 bar)

Maximum allowable temperature:

350°F (176.67°C) (Stainless Steel)

100.4°F (38°C) (Brass)

Minimum allowable temperature:

32°F (0°C)

Capacity / Nominal Diameter:

HP500-2 & HP500-4

Category under the Regulations:

IV

Prototype Examined:

Equipment:

Relief Valve

Type:

PEDHP559B-4M-N

Serial Number:

1

ABS Group Ltd. report numbers:

2002-6260-H

ESZ-105-01-P01

Attachment B - Rev 0

Page 1 of 1

This certificate is granted subject to the condition that it is understood and agreed that nothing herein contained shall be deemed to relieve any designer, manufacturer, seller, supplier, repairer or operator of any warranty, express or implied and ABS Group Ltd liability shall be limited to the acts or omissions of its employees, agents and subcontractors. Under no circumstance whatsoever shall ABS Group Ltd be liable for any injury or damage to any person or property occurring by reason of negligent operation or any defect in materials, machinery, equipment or other items other than defects ascertainable by normally accepted testing standards, and only upon those items actually inspected by ABS Group Ltd and which are covered by this certificate or report.



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

CERTIFICATE NUMBER: 0528-2002-006-PED-T

Maximum allowable pressure:

700 psi

Maximum allowable temperature:

100°F

Minimum allowable temperature:

-20°F

Capacity / Nominal Diameter:

1/2" NPT male inlet

#### **Technical Documents Reviewed:**

Refer to Attached Schedule

Name of representative:

Michael Cooper

Signature:

MHCeeps

Date of Issue:

17 December 2002

Date of Expiry:

16 December 2012



# 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

HP500 series Relief valves Summary Page

Catalogue Pages Stress Calculations

PED rating

Operating & Installation Instructions

Hazard Analysis No. 500

HP500-\*MP HP500-2MP

36797 Body

HP500-4MP

26808 Body HP500-\*M

HP500-2M

36865

HP500-4M 26805 Body

HP500-\*SX

HP500-2SX

26858 Body

HP500-4SX

26859 Body HP500-\*S

HP500-2S

HP500-4S

26856 Body

26857 Body

HP500-\*K

HP500-4K

HP500-\*KL

HP500-4KL

26861 Body

26862 Body

36796 Poppet

39797 Poppet

36820 Poppet

PEDHP500

National Board Report 16312A

Particular Material Appraisal: ASTM B16

Particular Material Appraisal: ASTM A479 316

TSZ-105-99-P02 Check Sheet A

Rev A

00-04-25

00-04-25

7/29/91

7/29/91 7/29/31

00/04/25

00/04/25

7/29/91

7/29/91

7/29/91

00/04/25 00/04/25

3/25/92

2/28/92

3/25/92

00/04/25

00/04/25 3/25/92

3/25/92

3/25/92

4/7/92

00/04/25

4/7/92

00/04/24

00/04/2

4/7/92

4/7/92

7/13/92

7/29/91

7/13/92

02/05/06

12 December 2002

16 October 2002

16 October 2002

M. H. Cooper

For ABS Group Ltd.