



**Pressure Relief Valve  
Model: SRH580**



**Set Pressure Range: 25-300 psig**

**Set Pressure Tolerance:  $\pm 2$  psig up to and including 70 psig,  $\pm 3\%$  of set pressure greater than 70 psig. As required in paragraph UG-134(d)(1) of the ASME Boiler & Pressure Vessel Code Sec. VIII Div. 1.**

**Seat Leakage: No audible leak at 45% set pressure at 25-74 psig.  
No audible leak at 90% set pressure above 74 psig.  
As required by Conrader Standards, allowed by paragraph UG-136(d)(5) of the ASME Boiler & Pressure Vessel Code Sec. VIII Div. 1.**

**Flow Factor (Slope Method): 3.33**

**Operating Temperature Range: -65°F to 400°F**

**Materials of Construction:**

**Seat, Cap, Piston: ASTM B16 Brass or ASTM A582 Stainless  
Spring: 302 Stainless Steel  
Sealing Ball: 440 Stainless Steel**

**Valve Weight: 0.717 lbm**

**Valve Options:**

**Valve Material: ASTM B16 Brass or ASTM A582 Stainless  
Compliance with European PED 2014/68/EU, "CE" Stamp  
Compliance with UK PESR SI 2016 no. 1105 as amended, "UK," Stamp  
Plating: Nickel Plating  
Inlet NPT Sizes: 3/4 NPT or BSPT  
1 NPT or BSPT**

**Certifications:**

**ASME Boiler & Pressure Vessel Code Section VIII Division 1  
CSA B51-03 Boiler, Pressure, Vessel, and Pressure Piping Code**

# CONRADER

## Ordering Information

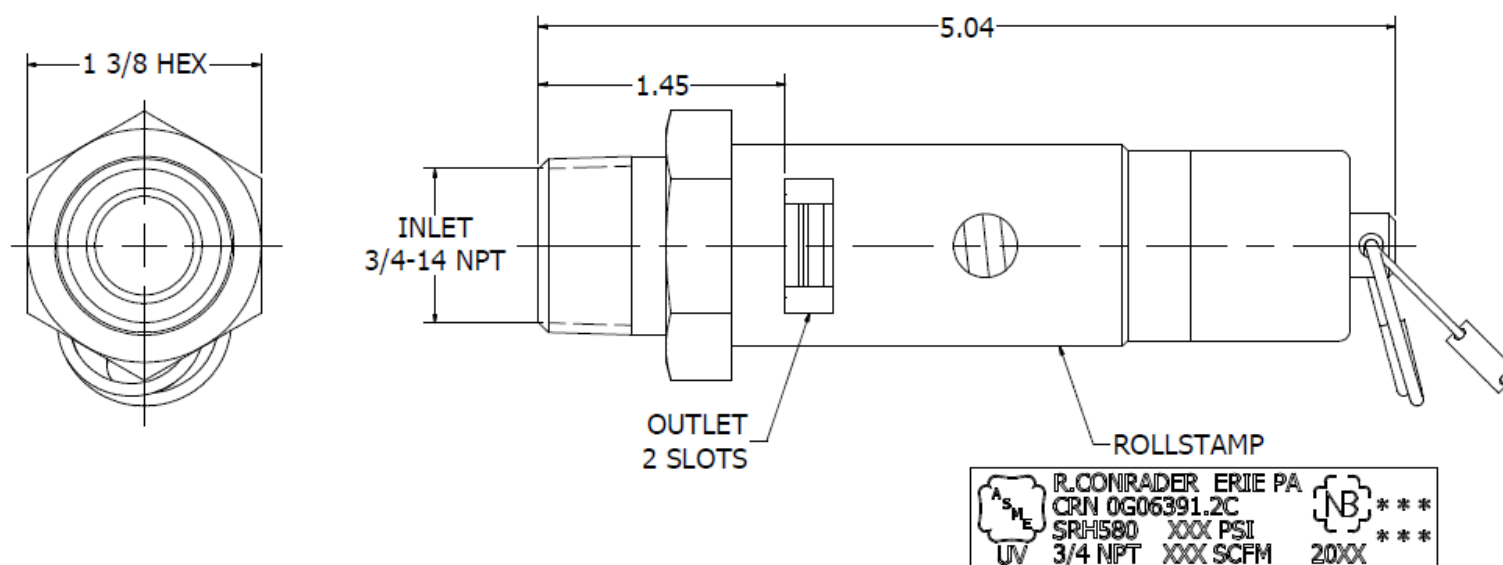
SRH580		-	3/4		-	BSPT		-	SS		-	CE		-	SC		-	SST		-	150	
Connection Size		Connection Type		Construction Material		Optional Code		Serialized		Thread Sealant		Pressure Setting										
Option	Code	Option	Code	Option	Code	Option	Code	Option	Code	Option	Code											
3/4"	3/4	NPT	(Blank)	Brass	(Blank)	None	(Blank)	None	(Blank)	None	(Blank)											
1"	1	BSPT	BSPT	Nickel Plated	NP	CE Mark	CE	Serialized	SC	White	SST											
				Stainless Steel	SS	Non-Code	NC															

## Options

1. Connection Size: The available sizes are 3/4" or 1".
2. Connection Type
  - a. NPT – Pipe Threads made to the ASME B1.20.1 Standard
  - b. BSPT – Pipe Threads made to the ISO 7-1 Standard
3. Construction Material
  - a. Brass
  - b. Nickel Plated – Electroless Nickel Plated Brass
  - c. Stainless Steel
4. Optional Code
  - a. None: Will meet the requirements of ASME BPV Code Section VIII Division 1.
  - b. CE/UKCA Mark: Valve has the “CE/UKCA” certification for the European PED and UK PESR.
  - c. Non-Code: For valves with a pressure setting below 25 psi.
5. Serialized Valves: Have a unique serial number and include certificate.
6. Thread Sealant
  - a. White colored thread sealant
  - b. Rust colored thread sealant

Examples:

1. A 1" NPT brass valve set 200 psi is **SRH580-1-200**.
2. A 3/4" BSPT brass valve with white thread sealant set at 100 psi is **SRH580-3/4-BSPT-SST-100**.

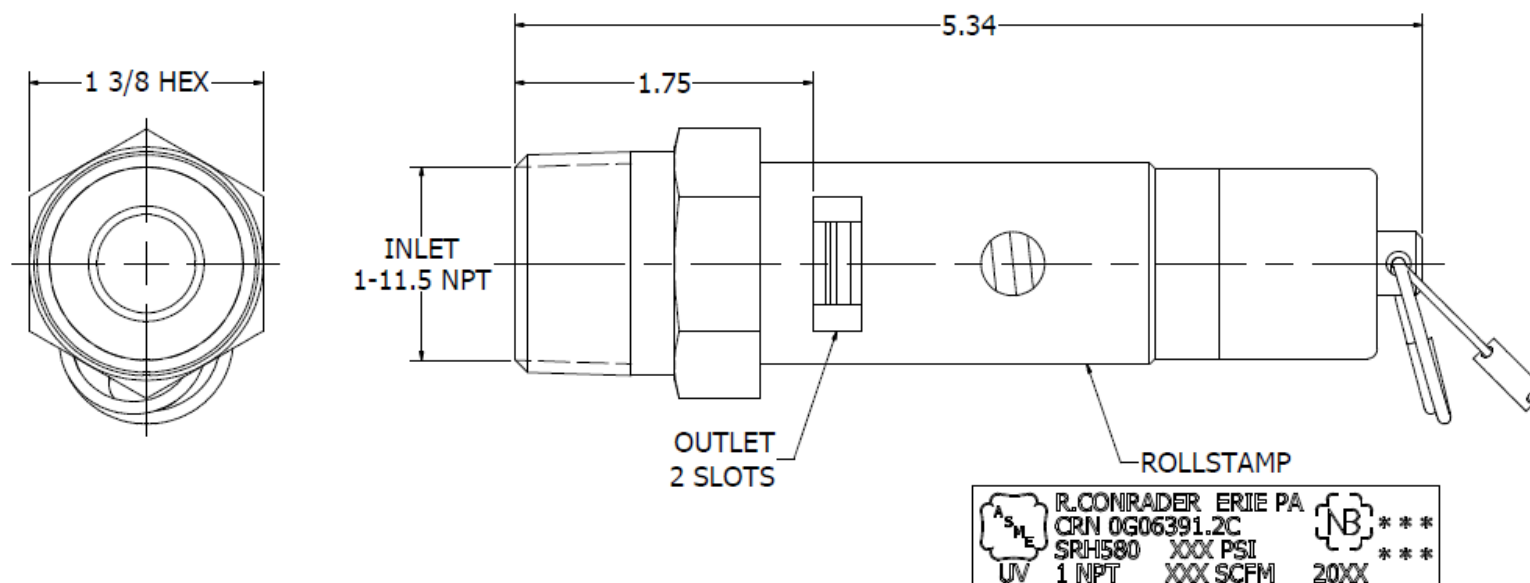


# NOTES:

- \* OPERATING TEMPERATURE RANGE: -65°F TO 400°F
- \* SET PRESSURE RANGE: 25-300 psig
- \* SET PRESSURE TOLERANCE: ±2 psig UP TO AND INCLUDING 70 psig, ±3% OF SET PRESSURE GREATER THAN 70 psig.
- \* SEAT TIGHTNESS: NO AUDIBLE LEAK AT 45% OF SET PRESSURE FOR SET PRESSURE 25-74 psig. NO AUDIBLE LEAK AT 90% OF SET PRESSURE FOR SET PRESSURE GREATER THAN 74 psig.
- \* VALVE WEIGHT: 1.15 lbmass

<b>CONRADER VALVES</b> R. CONRADER COMPANY 749 EAST 18TH STREET P.O. BOX 924 ERIE, PA 16512-0924 (814) 898-2727	DESCRIPTION	ISSUED BY	ISSUED	GROUP
	<b>DIM. OUTLINE</b>	<b>L. CONTI</b>	<b>1/17/1995</b>	<b>SV</b>
	VALVE MODEL	REVISED BY	REVISED	PAGE 2 OF 4
	<b>SRH580-3/4</b>	<b>NRP</b>	<b>4/20/2016</b>	
MATERIAL		SCALE	DRAWING NO.	REVISION
		<b>1:1</b>	<b>0937</b>	<b>K</b>

THIS DOCUMENT CONTAINS INFORMATION CONFIDENTIAL TO CONRADER. LOANED SUBJECT TO THE CONDITIONS THAT IT NOT BE USED OR CAUSED TO BE USED IN ANY WAY HARMFUL TO CONRADER AND BE RETURNED ON DEMAND.



# NOTES:

- \* OPERATING TEMPERATURE RANGE: -65°F TO 400°F
- \* SET PRESSURE RANGE: 25-300 psig
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- \* VALVE WEIGHT: 1.37 lbmass

<b>CONRADER VALVES</b> R. CONRADER COMPANY 749 EAST 18TH STREET P.O. BOX 924 ERIE, PA 16512-0924 (814) 898-2727	DESCRIPTION	ISSUED BY	ISSUED	GROUP
	<b>DIM. OUTLINE</b>	<b>L. CONTI</b>	<b>1/13/1995</b>	<b>SV</b>
	VALVE MODEL	REVISED BY	REVISED	PAGE 2 OF 4
	<b>SRH580-1</b>	<b>NRP</b>	<b>4/20/2016</b>	
MATERIAL		SCALE	DRAWING NO.	REVISION
		<b>1:1</b>	<b>0933</b>	<b>K</b>

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**SRH580 FLOW CAPACITY**

<b><u>SETTING (PSI)</u></b>	<b><u>SCFM</u></b>
25	142
30	158
35	177
40	195
45	213
50	232
55	250
60	268
65	287
70	305
75	323
80	341
85	360
90	378
95	396
100	415
105	433
110	451
115	470
120	488
125	506
130	525
135	543
140	561
145	580
150	598
155	616
160	635

<b><u>SETTING (PSI)</u></b>	<b><u>SCFM</u></b>
165	653
170	671
175	689
180	708
185	726
190	744
195	763
200	781
205	799
210	818
215	836
220	854
225	873
230	891
235	909
240	928
245	946
250	964
255	983
260	1001
265	1019
270	1037
275	1056
280	1074
285	1092
290	1111
295	1129
300	1147

**THE NATIONAL BOARD  
OF  
BOILER & PRESSURE VESSEL INSPECTORS**

***Certificate of Authorization***



*This is to certify that*

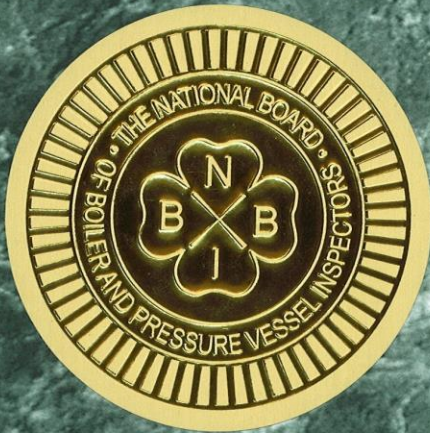
**R. Conrader Company  
3200 West 22nd Street  
Erie, Pennsylvania 16506  
United States**

**Acceptable Abbreviation: R.CONRADER**

*is authorized to use the "NB" mark in accordance with the provisions of NB-501, National Board Certification of Pressure Relief Devices.*

The scope of Authorization is limited to National Board Certified devices which have been manufactured, assembled and marked in accordance with the following construction codes:

**ASME Section VIII, Division 1: "UV"**



Issue Date:

March 19, 2021

Expiration Date:

March 15, 2024

Executive Director

A handwritten signature in black ink, appearing to read 'John E. Christ'.





## CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

**COMPANY:**

**R. Conrader Company**  
3200 West 22nd Street  
Erie Pennsylvania 16506  
United States

**SCOPE:**

**Manufacture of pressure vessel pressure relief valves at the above location only**  
**(This authorization does not cover welding, brazing or fusing)**

**AUTHORIZED: March 15, 2021**

**EXPIRES: March 15, 2024**

**CERTIFICATE NUMBER: 59272**

A handwritten signature in black ink, appearing to read 'David E. Tuttle'.

Board Chair, Conformity Assessment

A handwritten signature in black ink, appearing to read 'Paul Chang'.

Managing Director, Conformity Assessment



## EU-Type Examination - Production Type Certificate

This is to certify that:

R. Conrader Company  
3160-3200 West 22nd Street  
Erie  
Pennsylvania  
16506  
USA

Holds Certificate Number:

CE 616729

In respect of:

**Safety Accessories.**

On the basis of our examination under the requirements of Council Directive 2014/68/EU Module B of the Pressure Equipment Directive, as transposed into the law of The Netherlands Warenwetbesluit drukapparatuur 2016.

For and on behalf of BSI, a Notified  
Body for the above Directive  
(Notified Body Number 2797):



Drs. Dave Hagens, Managing Director

First Issued: 2014-08-11

Latest Issue: 2022-01-19

Expiry Date: 2024-08-10



Page: 1 of 2

...making excellence a habit.™

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.  
To check its validity telephone +31 20 3460780. An electronic certificate can be authenticated [online](#).

BSI Group The Netherlands B.V., registered in the Netherlands under number 3326-0284, at John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands  
A member of BSI Group of Companies.



# EU-Type Examination - Production Type Certificate

No. CE 616729

## Additional Information

### Limitations of Certificate Validity

Technical File No. DTF-01 Rev. 1

Model Numbers: SRV187, SRV250, SRV390, SRV530, SRV765, SRH250, SRH375 and SRH580

Maximum Allowable Pressure (PS) = 31.0 bar g (450 psi g)

Minimum/Maximum Allowable Temperature (TS) = -54°C to 204°C (-65°F to 400°F)

Main Material of Manufacture – Copper Alloy and Stainless Steel

First Issued: 2014-08-11

Latest Issue: 2022-01-19

Expiry Date: 2024-08-10

Page: 2 of 2

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