

FULL QUALITY ASSURANCE CERTIFICATE

Certificate No.: 10000350309-PA-ACCREDIA-USA Initial date: 02 April, 2020 Validity: 04 October, 2023 - 01 April, 2026

This certificate consists of 4 pages

This is to certify that the quality system of:

Total Valve Systems 1300 E Memphis Street, Broken Arrow, OK 74012 USA

has been assessed and found to comply with respect to the conformity assessment procedure described in:

ANNEX III MODULE H OF DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT

This certificate is valid for the following scope:

Type of Pressure Equipment Product Name

Pressure Accessories TVS Customer Excess Flow, Check and Changeover Valves

Place and date: Vimercate, 04 October, 2023

Check Validity





di MLA EA per gli schemi di accreditamento JA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF chemi di accreditamento SGQ, SGA, SSI, FSM di MRA

For the issuing office: Notified Body 0496, Italy DNV Business Assurance Italy S.r.I.

Maurizio Bellina Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ICP-4-5-i5-PED-f9 rev.0



Certificate No.: 10000350309-PA-ACCREDIA-USA Place and date: Vimercate 04 October, 2023 Revision No.: 02

Jurisdiction

Application of Directive 2014/68/EU and Decreto Legislativo n. 26 of 15 February 2016.

Certificate history

Revision	Description	Issue date	
00	Original issuance of Certificate	07 April, 2020	
01	Recertification and new product addition; changeover valve 8000 and 8800 series	11 September, 2023	
02	Update to correct a typo	04 October, 2023	

Products covered by this certificate.

Product name	Product description	Type of material	Applied product standard
TVS Custom Excess Flow and Check Valves	Flanged, wafer, and threaded valves for unidirectional and bidirectional normal flows. These are mechanical shut- off devices with a defined automatic shut-off direction for piping systems.	See below	ASME B16.34-2020
Changeover Valves-8800 and 8000 series	Multi-flanged valves designed to handle 2 relief valves for overpressure emergencies.	See below	ASME B16.34-2020

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Model	Size range and type	Pressure	PED Category
2100/3200	32 to 400 mm, Wafer		
2105/3205	32 to 400 mm, Wafer		
2120/3220	32 to 400 mm, Double flanged	ARDIA	
2125/3225	32 to 400 mm, Double flanged	G	
2130/3230	32 to 150 mm, Threaded		
2140/3240	32 to 150 mm, Threaded	20 barg to 430 barg	I to III
2150/3250	32 to 150 mm, Threaded	-	
2155/3255	32 to 150 mm, Threaded		<u> </u>
2160/3260	32 to 150 mm, Threaded		
2106	32 to 400 mm, Wafer		
2170/3270	32 to 150 mm, Socket weld (customer to provide welding of valve into line)		No.
8000	40 and 50 mm	20 barg	
8800	40 to 250 mm	20 barg to 430 barg	I to III

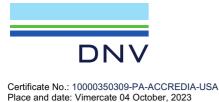
Sites covered by this certificate

Site name	Site Address	Audited by	Date	Report ref
Total Valve Systems	1300 S. Memphis St., Broken Arrow, OK 74012 USA	Robert L. Keys	09-10 March 2023; 31 August 2023	Total Valve Systems 177130 Module H RC- SE Audit Report rlk03182023- 09042023

Applications/limitations

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ICP-4-5-i5-PED-f9 rev.0



Revision No · 02

- TVS Customer Excess Flow products are not safety accessories as they only limit flow and not pressure.
- Refer to approved PMAs for design temperature limitations for product applications. In the case of Changeover valves, design temperatures are +345 or +400 to -40 ℃.
- Approved PMAs include A352-LCC, A351-CF8M, SA350 LF2 CL1, SA 564- 630 H1150D/H1150, SA182-F316, SA320 L7 and SA194 Grade 7
- Valves which fall under SEP cannot be CE marked and are not in the scope of this certificate.

Terms and conditions

The certificate is subject to the following terms and conditions:

- In case of damages caused by defective products, directive 85/374/EEC, as amended, will apply
- The certificate is only valid for the products and/or manufacturing premises listed above.
- The Manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains adequate and efficient.
- The Manufacturer shall inform the local DNV Office of any intended updating of the quality system and DNV will assess the changes and decide if the certificate remains valid.
- The Manufacturer shall inform the local DNV Office of any addition of products outside the scope for this Certificate and DNV will decide if a reassessment of the quality system is required.
- The local DNV office must be informed of any sub-suppliers for main pressure retaining parts.

The following may render this Certificate invalid:

- Changes in the quality system.
- Periodic audits not held within the allowed time window.

Terms and conditions

Valid terms and conditions are found in the DNV's PED Certification Requirements

End of Certificate