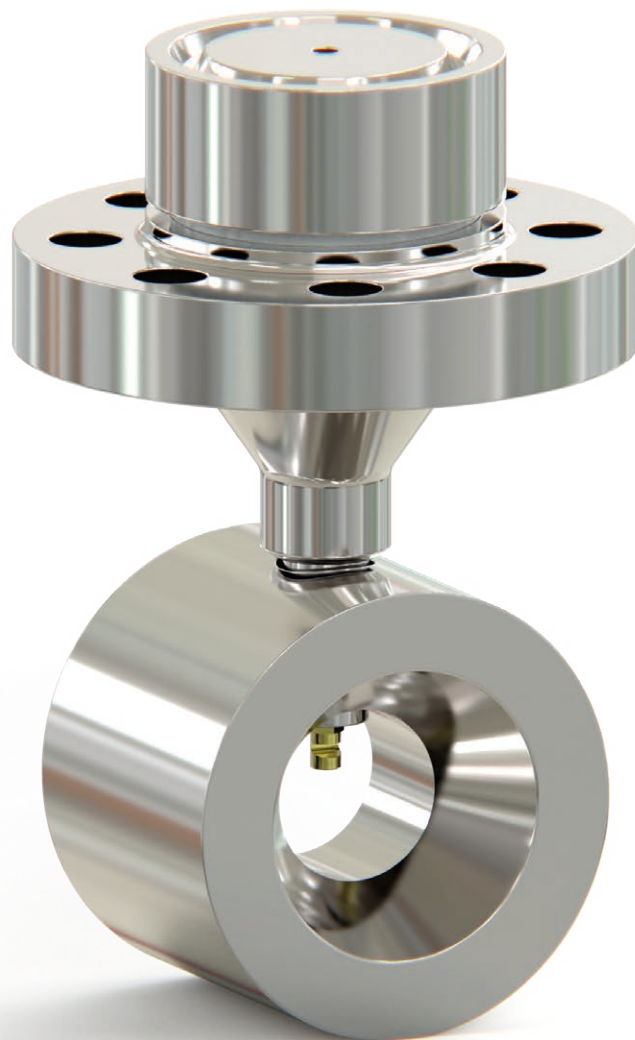


BVT-DLV

Venturi-style desuperheater



BVT-DLV

Venturi-style desuperheater

About us

BVT Sweden was started with the ambition of becoming world leading in critical applications in process steam and thermal power plant turbine bypass. Based in Säftele, BVT Sweden employs experts with over 30 years experience in turbine bypass, steam conditioning, temperature control, design and manufacturing processes. We design turbine bypass valves, select actuation to fit our customer's requirements. Our products are optimized on a per-order basis, and we have the experience necessary to design special solutions. These products cover steam conditioning valves, pressure reduction valves, stop valves, desuperheaters and spray water control valves.

BVT-DLV desuperheater

The BVT-DLV desuperheater is mostly used in industrial / municipal power and district heating applications, and within the process industry. It uses a static nozzle mounted in the direction of superheated steam, cooling it down using spray water. The simple design and lack of moving parts makes it very reliable and reduces the need for maintenance.

Spray water is controlled using an external spray water control valve. The venturi design causes an increase in steam velocity over the nozzle, improving the evaporation of the water droplets and reduces the risk of the water making contact with the downstream pipe walls.

Specifications

Rangeability
Determined by spray water valve

Pressure class
ASME 600-2500

Connection sizes
Steam - up to 6"
Water - up to 2"

Max pressure drop over nozzle
5 bar / 70 psi

Nozzle
Fixed

Key features

- ✓ Accurate temperature control down to 8°C / 15°F above saturation temperature
- ✓ Efficient evaporation due to the venturi design
- ✓ Little maintenance / service requirements
- ✓ Small and compact

BVT - DLV - 150

Desuperheater
In-Line Venturi

Steam pipe DN

BVT-DLV PRODUCT CODE



BVT-DLV

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Water valves

BVT provides a multitude of spray water control valves, selected and designed to match operating conditions and customer requirements. The trims are chosen to prevent cavitation and flashing and prevent aerated liquids from corroding or eroding valve parts. They are equipped with quick exchange trims for more convenient inspection replacement. Among the options of trim designs are contour plugs, multi-step plugs, multi-cage and labyrinth disc stacks.

Trim types


PT (Plug throttling)
Cv Range: 1.4 ~ 9930
Rangeability: 25 to 1
Leakage class: IV / V

HSC (Micro High Step Cascade)
Cv Range: 0.24 ~ 406
Rangeability: 100 to 1
Leakage class: V

HES (Single seat, drilled cage)
Cv Range: 38 ~ 8900
Rangeability: Varies
Leakage class: IV / V



LEFT: ANGLE-STYLE VALVE BODY
RIGHT: GLOBE STYLE VALVE BODY




Certificate of Approval

This is to certify that the Management System of:

BVT Sweden AB
 Körkarlsvägen 8, 653 46 Karlstad, Sweden


has been approved by LRQA to the following standards:
 ISO 14001:2015 | ISO 9001:2015


P.G. Cornelissen - Area Manager North Europe
 Issued by: LRQA Sverige AB
 for and on behalf of: Lloyd's Register Quality Assurance Limited

Current issue date: - Original approval(s):
 Expiry date: - ISO 14001 – 1 February 2019
 Certificate identity number: 10169985 ISO 9001 – 1 February 2019

Approval number(s): ISO 14001 – 00002108 / ISO 9001 – 00002109

The scope of this approval is applicable to:
 Sales, development, engineering, service and upgrades of valves and accessories for power and process applications.


 001

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Certificate No. / Zertifikat Nr.: 50329/1

CERTIFICATE

in accordance with the requirements of the Pressure Equipment Directive 2014/68/EU

ZERTIFIKAT
 in Übereinstimmung mit den Anforderungen der Druckgeräterichtlinie 2014/68/EU

This is to certify that the quality assurance system of
 Hiermit wird bescheinigt, dass das Qualitätssicherungssystem des Unternehmens

BVT Sweden AB
SE-653 46 Karlstad
Sweden / Schweden

has been assessed by LR Deutschland GmbH in accordance with the requirements of Annex III
 durch die LR Deutschland GmbH entsprechend den Forderungen des Anhangs III

Module H

to the Pressure Equipment Directive 2014/68/EU and
 conforms to the requirements for the products shown below:
 der Druckgeräterichtlinie 2014/68/EU geprüft und bewertet wurde und für die folgenden Produkte die Anforderungen erfüllt:

Valves and accessories for power and process applications,
for details see Annex 1 to this certificate.
 Ventile und Ausrüstungsteile für Anwendungen in der Wärme- und Verfahrenstechnik,
 Einzelheiten siehe Anhang 1 dieses Zertifikates.

Approval is subject to continued maintenance of the quality assurance system
 in accordance with the requirements of the above-mentioned directive.
 Die Zulassung gilt unter der Voraussetzung, dass das Qualitätssicherungssystem fortlaufend aufrechterhalten wird und
 die Forderungen oben genannter Richtlinie erfüllt.

Authorisation is hereby given to use the below-mentioned Notified Body Identification Number
 of LR Deutschland GmbH in accordance with the requirements of the specified directive
 in relation to the products as named above:
 Hiermit wird die Genehmigung erteilt, folgende Kennnummer der LR Deutschland GmbH als Notifizierte Stelle
 in Übereinstimmung mit der angegebenen Richtlinie in Bezug auf die oben genannten Produkte zu verwenden:

CE 0525

Certificate expiry date / Zertifikatsgültigkeit bis: **31.01.2022**

Hamburg, 01.11.2019
 Place and Date
 Ort und Datum


K. Wolf
 Name, Signature, Certifier
 Name, Unterschrift, Zertifizierer

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ZE-1110 en Rev. 3, (08/19)
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