

# Vögtl



## POWER PRODUCTS







## THE GROUP

At OMB we have developed a comprehensive range of engineered valve products installed globally across a wide range of industries:

- Aerospace
- Chemical
- Cryogenic
- Desalination
- Offshore
- Petrochemical
- Power
- Refinin
- Subsea

In these past 45 years OMB has supplied millions of valves to major oil and gas companies worldwide. During this time OMB's name has become synonymous with absolute reliability, superior quality, and competitive pricing.

In the early 80's OMB was the first to introduce robotics in the valve manufacturing process. This included specialized equipment designed to reduce machining time, and increase the quality of the machined components.

Today OMB's commitment to innovation and continuous improvement is higher than ever. With this in mind, OMB is focused on expanding our capacity at home, opening new plants abroad, and extending our distribution network to better serve our customers.

We invite you to visit any of our facilities to meet our experienced workers and see the state of the art equipment they are using to produce the best valve money can buy.

This our promise!

*Roberto, Simone and Fabio Brevi*

## 1890-2018 VOGT HISTORY IN THE MAKING

In the late 1890s, Vogt pioneered the early development of ammonia absorption refrigeration systems that made artificial ice.

This business, plus Vogt's fledgling boiler business, created an internal need for quality valves that initiated Vogt's early entry into the valve manufacturing business.

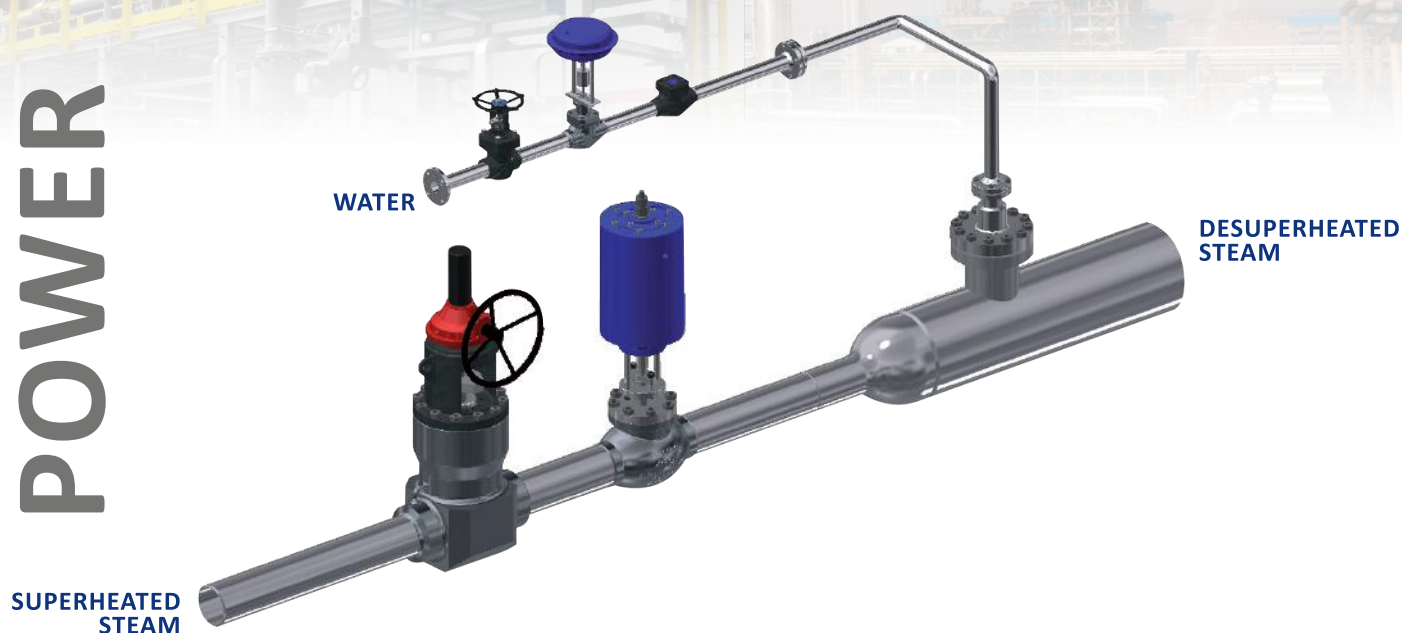
The early reputation of Vogt's quality valves and rapidly growing petroleum processing industry created an outside demand that would firmly establish Vogt in the mass production of high-quality forged steel valves.

For more than 100 years, Vogt's leadership has been evident in the production of forged steel gate, globe, angle and check valves in most popular materials, trims and bonnet configurations.

In the last year Vogt expanded product line with Compact Pressure Seal, Control Valves, Desuperheaters and a full range of Cryogenic Valves for LNG and liquified air gases.

Today Vogt Valve from its expanded manufacturing plants in Stafford, TX and Milano, Italy supports a worldwide network of distributors and customers with access to the world's largest capability for manufacturing of forged steel valves.

*OMB is based in Bergamo, a town 45 Km from Milan with easy access to airports, highways and seaport. Bergamo is the world center for the forged steel valves production with a large valve parts subcontracting base.*



**VOGT Power** products are specially designed and customized to be suitably installed in a wide range of applications including steam, hot condensate, gas and liquids, typically present in Power station, Chemical plants, Refineries and Paper mills.

An example of use of the complete product range is in a desuperheating station (as shown in the picture above) and it includes:

- > Stop and Check Valves (Steam and Water lines)
- > Control Valves (Steam and Water lines)
- > Desuperheater and injection chamber (downstream steam PCV)
- > Electronic and pneumatic accessories to complete the control loop

## GATE, GLOBE & CHECK

New pressure seal design for Gate, Globe, Y-Globe and Check. Customized compact design with specially engineered short end dimensions and interpolating ratings, ensuring perfect suitability for plant installation with light weight and easy maintenance configuration.

## CONTROL VALVES

A complete series of straight and angle globe valves provided with different plug, cage, single or multistage trim, configured to withstand most demanding services involving cavitation, flashing, noise and vibration.

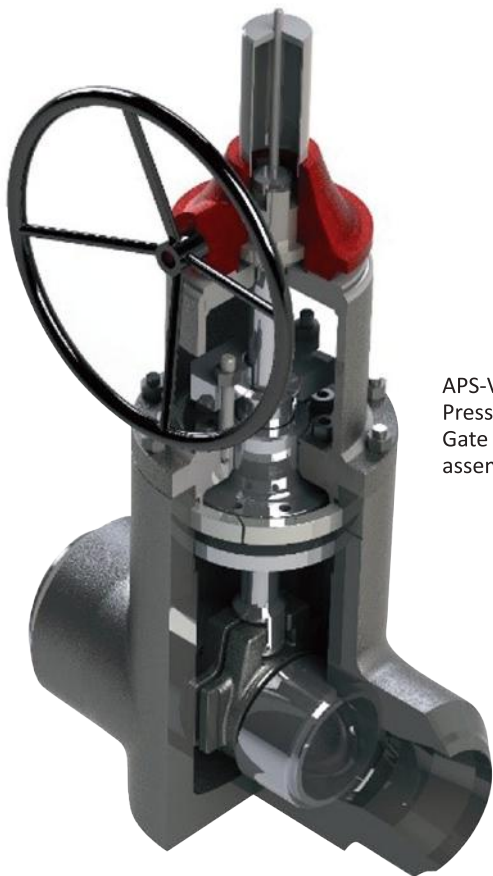
## DESUPERHEATERS

Fixed and variable area and integrated type desuperheaters, in probe and wall mounted configuration. The selection of these desuperheaters is according to rangeability and process turndown.



# APS-Vx

Valve series including Gate, Globe, Y-Globe and Check. Engineered for Power Industries involving extremely high temperatures with special compact design for high pressure application typically required also by Chemical, Petrochemical and Off-Shore Plants.



APS-V10  
Pressure Seal  
Gate Valve  
assembly

## APS-V30 / V30K

Globe and Globe Check  
(T-Shape, Y-Shape, Stop-Check)

Integral T-shaped rising stem with anti-rotation system to prevent sealing surface wearing. Full bore area and lowest pressure drops guaranteed in fully open position.

## MAIN FEATURES

- High quality forged body material
- Interpolated ratings and special reduced face to face dimension for compact design
- Pure graphite trapezoidal sealing ring for high tightness
- Easy Maintenance with special ring design

## PRODUCT RANGE

**DN** from 2" to 30" forged material

**Pressure Class** ASME Class from 900# (PN160) to 4500# (PN720)

**Connections** BW, RF, RTJ

**Temperature Range** from -46°C and up to 650°C

## APS-V10

Gate (Wedge or Parallel slide)

Gate valve with two-pieces flexible split wedge. Naturally self-adjusting T-Head stem connection. Parallel slide configuration available for special applications or on request.

## APS-V40

Check (Tilting, Swing and Screw Down)

Available in Tilting Disc, Swing Disc and Screw Down configuration. Tilting disc geometry ensures slam free operation avoiding strong impact between the disc and seat.

# MV-X

Control Valve series engineered to satisfy most severe requirements of Power Industries including new generation plants and applications where high temperatures, corrosive or erosive fluids together with high pressure drops are involved. Recommended in case of combination with other service condition as high noise, cavitation, flashing and vibrations.

## MAIN FEATURES

- Straight and angle-style bodies
- Full and reduced port
- Balanced and unbalanced plugs
- Single or multi-stage trim
- Metal and soft seat

## PRODUCT RANGE

**DN** from 1/2" to 20" cast or forged material

**Pressure Class** ASME Class 150# to 2500#

**Connections** Screwed, SW, BW, RF, RTJ

**Temperature Range** up to 650°C

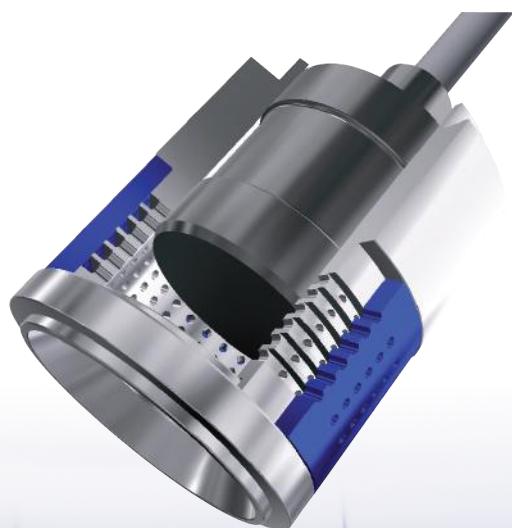
**Trim Options** Microflow, Contoured plug, Cage, Multistage

## MV-1000

### Contoured plug



- Top guided contoured plug
- Special design for microflow service
- Screwed-in or clamped-in seat ring for easy maintenance and inspection



## MV-2000

### Single stage

- Cage guided plug with quick-change trim
- Customized drilling pattern
- Low noise and ultra low noise single cages



## MV-3000

### Multistage

- Double or multi-cage solution
- Cage guided plug with quick-change trim
- Anticavitation service for high pressure drop



# VDH-Vx

Variable Area nozzles can be widely implemented in most common desuperheating systems setup, thanks to their wide rangeability mostly covering system turndown.



VDH-V1 – Probe mounting  
with injection chamber



VDH-Vx – Variable Area Nozzle



VDH-V2 – Wall mounting  
including water distribution line

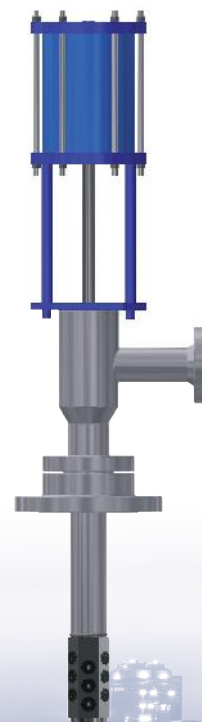
## MAIN FEATURES (VDH-Vx & VDH-lx)

- Accurate selection of system rangeability compared to plant turndown
- Modular design to meet process requirements
- Realized as probe (VDH-V1) or wall mounted (VDH-V2)
- Working pressure drop of 30 bar (for common continuous applications)
- Easy maintenance thanks to flanged design
- Avoid cavitation risk for upstream control valve also at minimum flow
- Injection chambers with or without internal liner available on request

Integrated type desuperheaters are self-contained desuperheating systems where control valve and pneumatic actuator are embedded in the spraying equipment.

## MAIN FEATURES

- Constant pressure drop across fixed-area nozzles
- Flow controlled by selective opening of orifices
- Extremely high rangeability
- Good atomizing also at low steam velocities



# VDH-lx



## PLANTS

- OMB Valves s.p.a**  
Cenate Sotto, BG - ITALY  
[www.ombvalves.com](http://www.ombvalves.com)
- VOGT Valves Inc.**  
Stafford, TX - USA  
[www.vogtvalves.com](http://www.vogtvalves.com)
- OMB Valves Inc.**  
Stafford, TX - USA  
[www.ombvalves.com](http://www.ombvalves.com)
- OMB Valves Asia Pte. Ltd.**  
Woodlands - SINGAPORE  
[www.ombasia.com](http://www.ombasia.com)
- Vogt Valves srl**  
Settimo Milanese, MI - ITALY  
[www.vogtvalves.com](http://www.vogtvalves.com)
- IVM OMB Saudi**  
Al Khobar - SAUDI ARABIA  
[www.ivm-ombsaudi.com](http://www.ivm-ombsaudi.com)
- SPSV**  
Al Khobar - SAUDI ARABIA  
[www.spsv-sa.com](http://www.spsv-sa.com)

## REPRESENTATIVE OFFICE:

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Tokyo - JAPAN
- OMB Valves**  
Beijing - CHINA
- OMB Valves DMCC**  
Dubai - UAE