



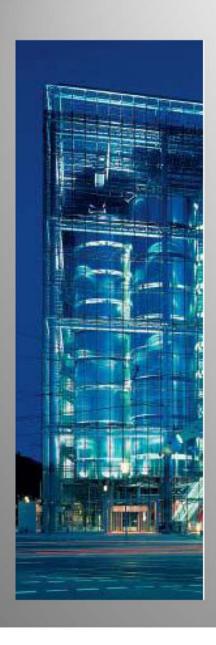
Topic

- General Product Range
- · Fields of Application
- Individual Applications
 - · PTA
 - Coal gasification
 - Siliconfines
 - Iron ore reduction / High temperature application
 - Low temperature application
- · Typical Customer









General Product Range

- Two-Way and Multi-port / Diverter Ball Valves
- Switch Units for Relief-Valves
- Ball Valves produced acc. all standards (e.g. DIN, ANSI, JIS, GOST)

-Temperature Range:
$$-196 \,^{\circ}C$$
 to + $800 \,^{\circ}C$ $-320 \,^{\circ}F$ to + $1500 \,^{\circ}F$

- Size Range: DN 15 (1/2") to DN 600 (24") Diameter
- Medium: Fluids, Gas, Solids (incl. corrosive, abrasive mediums)
- Pressure Range: PN 6 (Class 150) up to PN 420 (Class 2500)
- Materials: Carbon Steel / Stainless Steel/Titanium / Hastelloy & Duplex/Inconel & Monel, other special materials







Fields of Application

- · Chemical Industry
- Petrochemical Industry
- · Mechanical Engineering for Plant Construction / Loading Technology
- · Coal Gasification Industry



- · Iron & Steel and Aluminum Industries
- · Power and Waste Industries
- Transportation of Solids
- · Refineries
- · Liquide Gas (LNG)
- · Cement Industry





Individual Applications:

Continous focus with permanent improvements in technology for:

- PTA
- MDI/TDI
- · Coal Gasification and Liquefaction
- Silicon
- · PP/PE
- Coal Injection (Iron and Steel Industry)

The above applications cover more than 80% of Perrin's annual sales

Revival/Relaunch of:

- · Delayed Coker Valves
- Refineries
- · Power plants

New markets and applications:

- Solar industry
- · Deep water drilling industry





Typical customer

key accounts in processes

Purified Terephthalic Acid (PTA)

lyondellbasell

Polyethylene / Poly-

propylene (PE / PP)





Nuclear Power Generation











Isocyanates (MDI / TDI)

SIEMENS

Coal Gasification

further customers

Bayer Schering Pharma

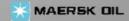












worldwide customers in different processes



PERRIN links Nidderau with the world



Questions are welcome

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