



Petrochemicals

# Process Valves for Ethylene cracking



General Chemicals



Fine Chemicals



Plastics and Polymers



Nuclear and Navy



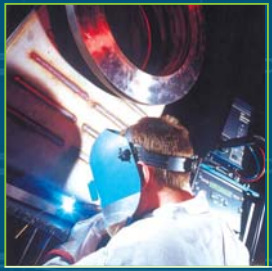
Cryogenic Service



Other Applications



4050

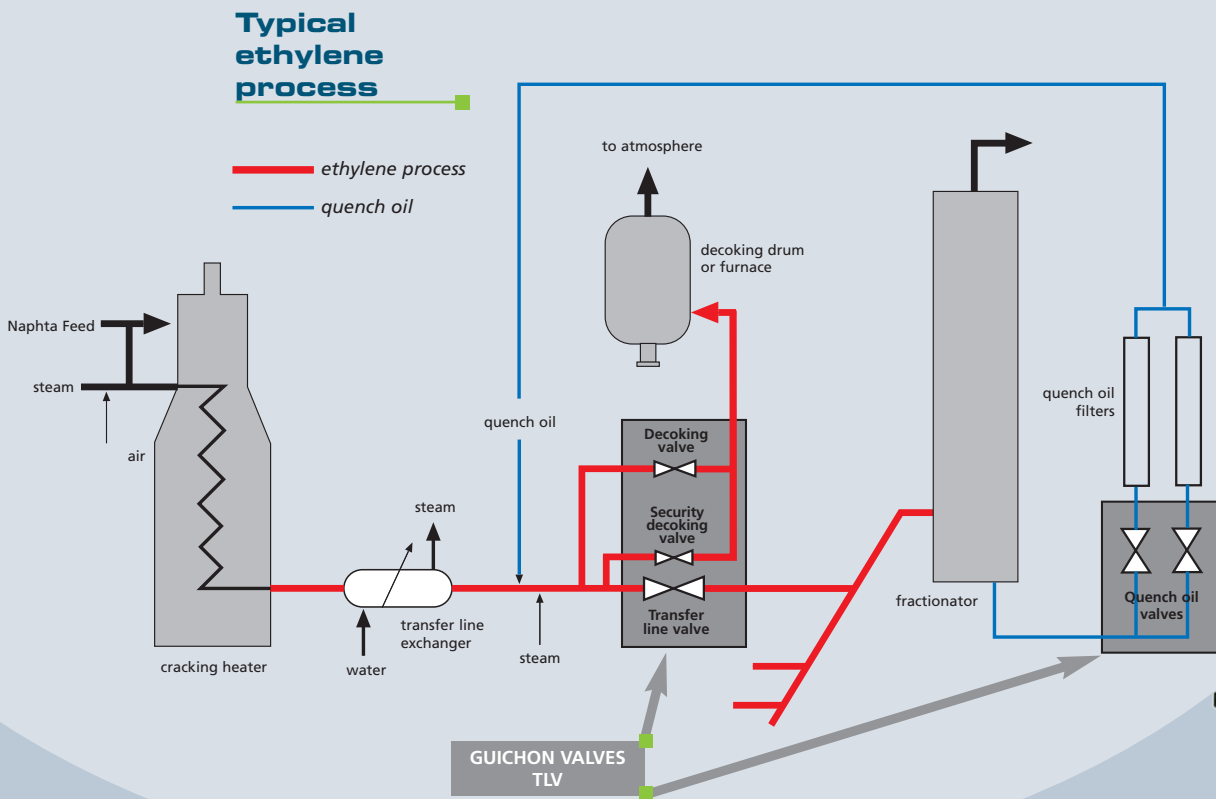


TLV  
DN36"x30"

1460



# Increase valves reliability in transfer and decoking lines of ethylene units



## Constraints related to steam cracking

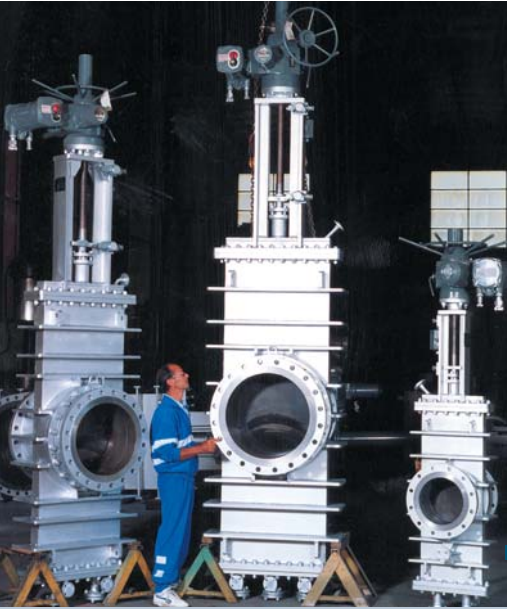
- 1 The thermal cracking phase of the process generates effluent with coke particles.
- 2 The decoking phase of the process generates coke particles which can drop into the valve body during the opening-closing phase and damage the sealing system.

**Guichon Valves** proposes a valve design with sliding gate and sleeve combination to reduce ingress of coke particles.

The third generation of **Guichon Valves's** Transfer Line Valves, TLV03, provides reliable, long lasting tight shut-off.

Transfer Line Valve





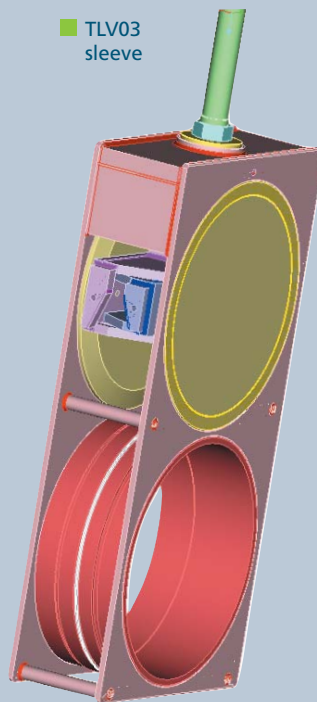
# TLV03 design

■ TLV Valves

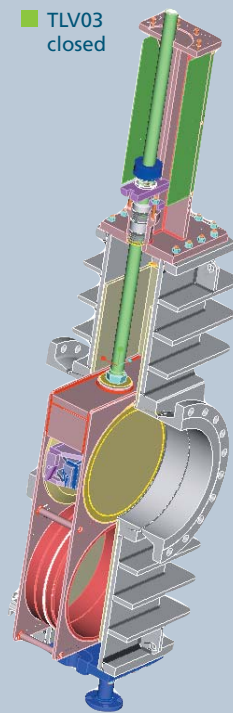
## Main design features

- One-piece body
- Double block & bleed design
- Tight sealing throughout the actuation process
- Through conduit design in opened position
- Fixed wedge in the body to avoid jamming during actuation
- Stellite and protected sealing surfaces
- Reduced wear of sealing areas
- Removable bottom

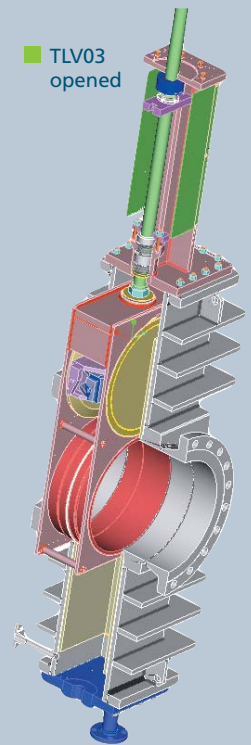
■ TLV03 sleeve



■ TLV03 closed

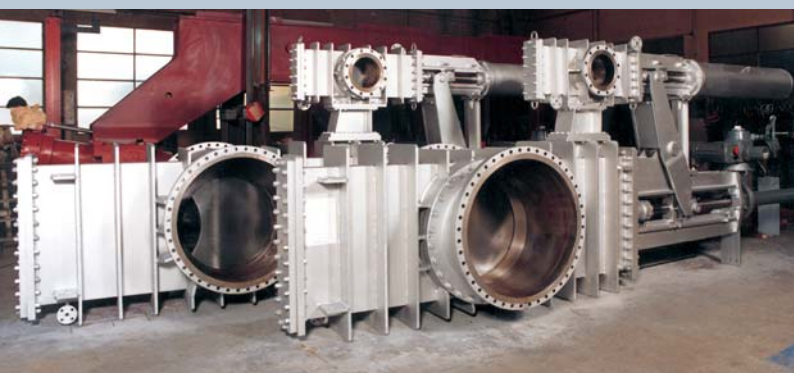


■ TLV03 opened



## Advantages of this design

1. Improved tightness.
2. Increased service lifetime.
3. Easy maintenance.



■ Linked Transfer Line Valve and Decoking Valves

## Agreements and quality management

**ISO 9001: 2008** Certification first obtained as early as 1997

**ISO 14001: 2004** Environmental Management System

**OHSAS 18001: 2007** Health and Safety

**ISO 26000** : Corporate Social Responsibility (CSR)

**EC CONFORMITY** according Module H of PED 2014/68/EU

**AD 2000** : Merkblatt HP0 & A4 - **ISO 3834-3/2005**

**NUCLEAR QUALIFICATIONS** :

EDF RCC-M Q2, Q3, QC, ASME NQA-1

**EAC CONFORMITY** (EurAsian Conformity Mark):

CU TR 010, CU TR 032

**CONSTRUCTION CODES** :

EN, ASME, AD-2000, CODAP, RCC-M

**WELDING** : EN, ASME, AD-2000 and RCC-M

## Leading manufacturer on its market



*Experienced and qualified welders*



*Machining shop equipped for in-house production*



*Design department : the company's heart*



*Local production plant*

GUICHON VALVES was founded in 1921, successfully expanded into the Petrochemical Sector in 1979 and has been in the specific market of ethylene cracking since 1989.

Today, we rank amongst the leading European suppliers of transfer line valves, thanks to our long experience and capability to supply customer-made valves solutions.

Guichon Valves has full control over the design, manufacturing and control of its products and also provides full after-sales service.

Our know-how in manufacturing high performance valves, added to the expertise of our engineering and design department have ensured constant progress in the development of innovative and effective solutions, produced by our Company.

*Expertise and Safety, Synchronized with Customer Needs*



Member of VALCO GROUP

## Petrochemicals



### GUICHON Valves

also has special know-how in Fluid Catalytic Cracking / FCC and Catalytic reforming / CCR valves

## Some references for TLV

**MITSUBISHI** – Yuka Kajima (Japan)  
450'000 tpy - Engineering T.E.C

**CNTIEC - TIANJIN UNITED CHEMICAL Corp.**  
(China)  
140'000 tpy - Engineering T.E.C

**SHELL PETROCHIMIE MÉDITERRANÉE BERRE**  
(France)  
Engineering TECHNIP FRANCE

**O.A.O NIZHNEKAMSKNEFTEKHIM**  
**TATARSTAN** (Russia)  
140'000 tpy - Engineering ABB Lummus

**NAPHTACHIMIE - Lavera** (France)  
670'000 tpy - Engineering ABB Lummus

**COPENOR / ATOCHEM - Dunkerque**  
(France)  
300'000 tpy - Engineering Technip

**POLIMERI EUROPA**

**TIANJIN ETHYLENE COMPANY**

Sizes :

DN 6 " - DN 10 " - DN 12 " - DN 14 "  
DN 16 " - DN 18 " - DN 20 " - DN 24 "  
DN 30 " - DN 36 " - DN 42 "

Pressure classes:  
150 lbs - 300 lbs

Actuators:  
Electric and pneumatic

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