

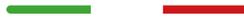


**GUIDE THE  
HYDROGEN TRANSITION.**

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**Specialists** in  
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**since 1981.**





# H<sub>2</sub> SERIES



**H2 INVICTUS**



**KRATOS**



**SUPREME**



**THOR**



**MAGNUM**



**424**



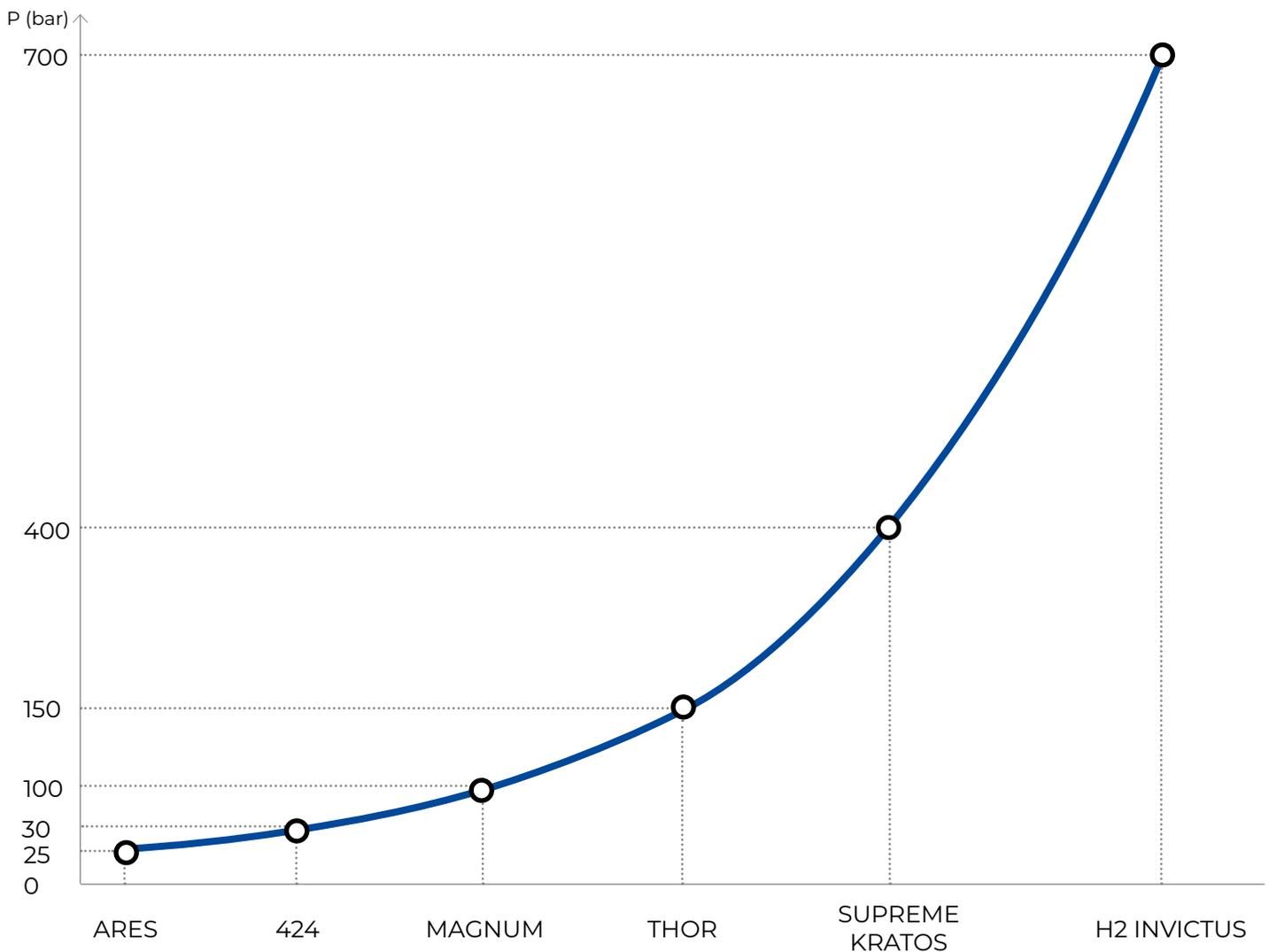
**ARES**



# OMAL H<sub>2</sub> IGH QUALITY SOLUTIONS

Material Compatibility Assessment with hydrogen	TÜV SUD
Certification ISO 19880-3 for H2 Invictus	TÜV SUD
Certification 2010/35/EU TPED Directive	Bureau Veritas
Certification Fugitive Emission ISO 15848-1 for Magnum, Thor, Supreme, Kratos	TÜV SUD
Certification EN 61508 up to SIL 3 for Magnum, Thor, Supreme, Kratos	TÜV NORD
Certification API6D - License n° 6D-1007	API
Equipment group IIC according to 2014/34/EU ATEX Directive	

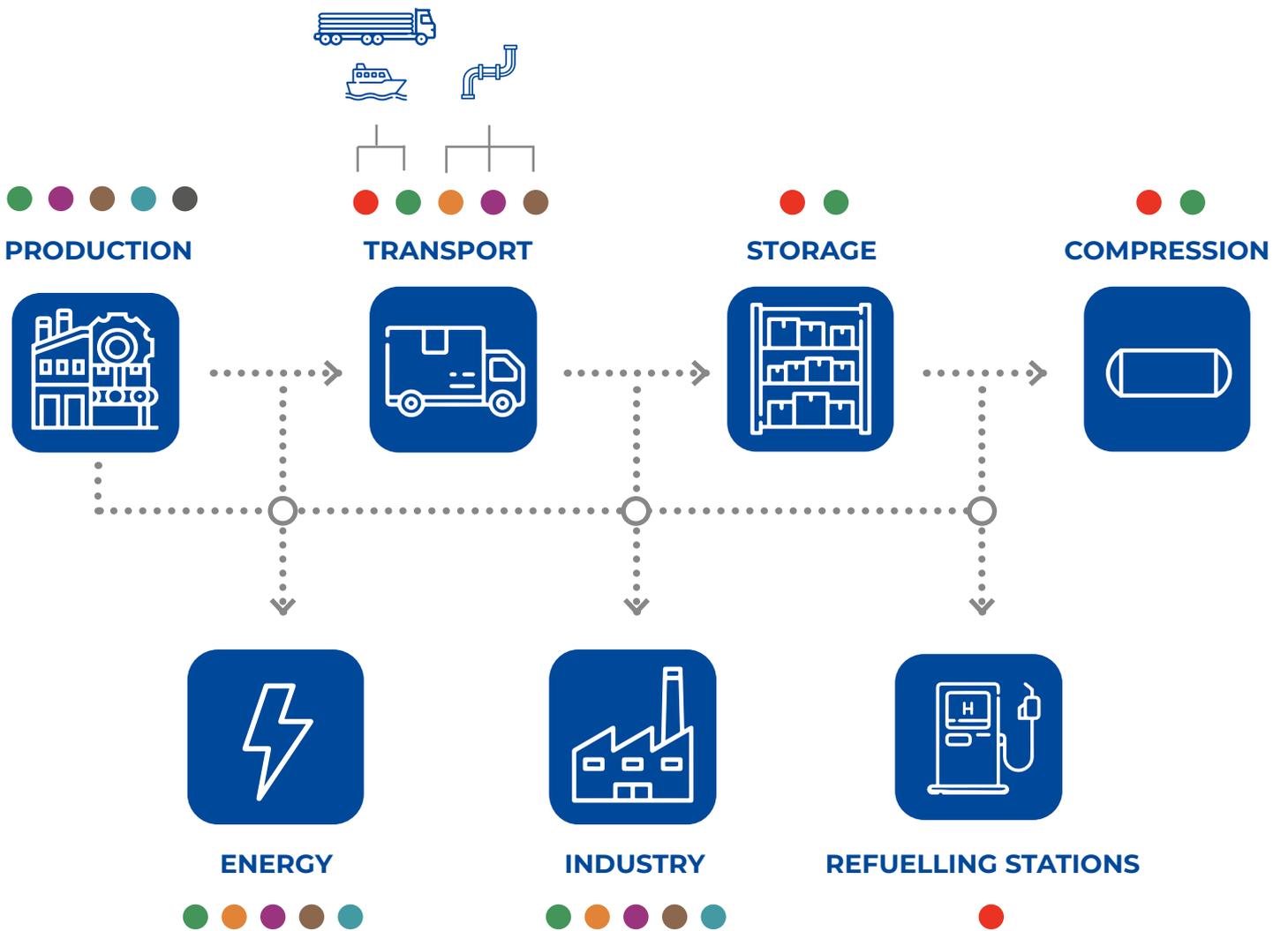
## GETTING HIGHER ON HYDROGEN







# HYDROGEN SUPPLY CHAIN



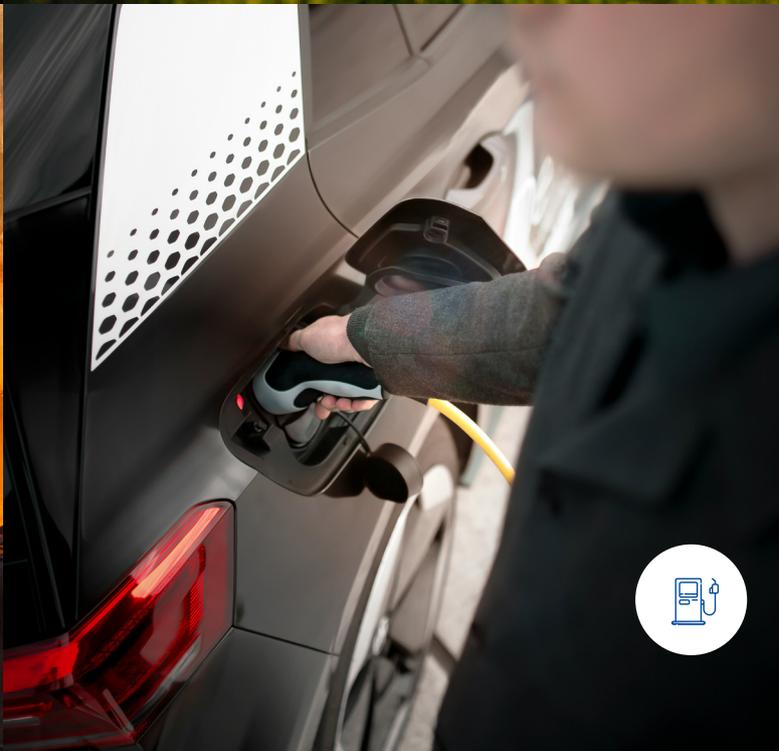
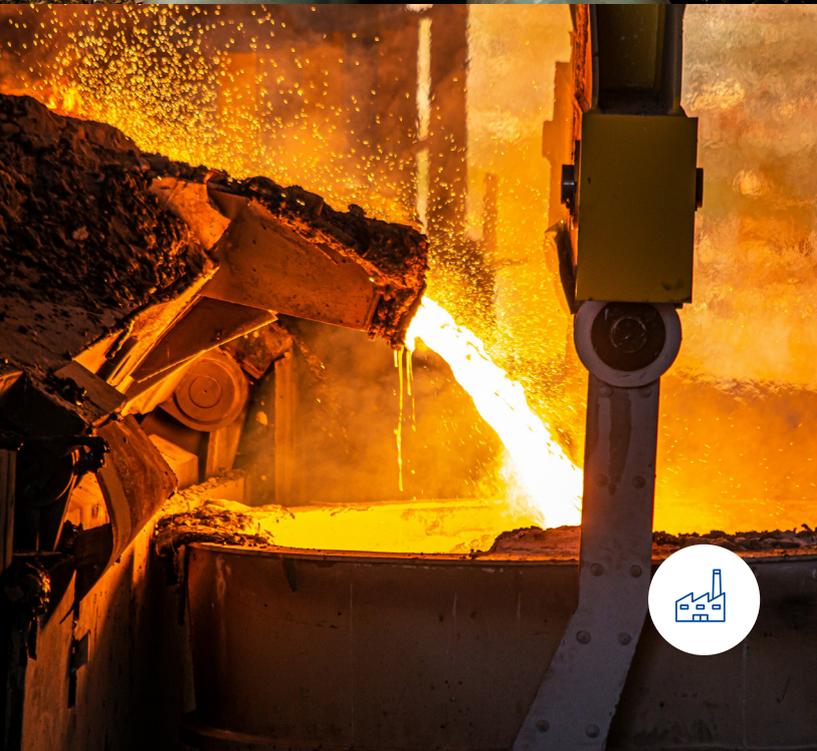
Overland Transport



Transport by Sea



Pipeline





# TECHNICAL DETAILS

## H2 INVICTUS

HIGH PRESSURE BALL VALVES



### SPECIFICATIONS

- Size:**
- DN 8 ÷ DN 25 [mm]
  - 1/4" ÷ 1" [inch]

- Body material:**
- 316 Stainless steel

- End connections:**
- CONE & THREAD
  - NPT (ANSI B1.20.1)

- Max pressure:**
- 700 bar / H50

- Options:**
- Stem Extension

- Certifications:**
- ISO 19880-3
  - Ex CE/UKCA



Storage

Compression

Refuelling Stations

## KRATOS

HIGH PRESSURE BALL VALVES



### SPECIFICATIONS

- Size:**
- DN 8 ÷ DN 50 [mm]
  - 1/4" ÷ 2" [inch]

- Body material:**
- 316 Stainless steel

- End connections:**
- ISO 228-1
  - NPT (ANSI B1.20.1)

- Max pressure:**
- 414 Bar (varies by size)
  - 6000 PSI (varies by size)

- Options:**
- BW / SW connection
  - Stem Extension

- Certifications:**
- TPED
  - Ex CE/UKCA
  - Pressure Equipment CE/UKCA
  - Fugitive Emission rate A
  - SIL (up to SIL3)

Production



Storage

Compression

Industry

Energy

## SUPREME

TRUNNION BALL VALVES



### SPECIFICATIONS

- Size:**
- DN 50 ÷ DN 300 [mm]
  - 2" ÷ 12" [inch]

- Body material:**
- Carbon steel
  - Stainless steel

- End connections:**
- Flanged RF / RTJ

- Pressure class:**
- ANSI 150-2500 (varied by size)

- Options:**
- BW / SW connection

- Certifications:**
- Ex CE/UKCA
  - Pressure Equipment CE/UKCA
  - Fire Safe
  - SIL (up to SIL3)
  - Fugitive Emission rate B
  - API6D on request



Industry

Energy



# THOR

## SPLIT BODY FLANGED BALL VALVES



### SPECIFICATIONS

- Size:**
  - DN 15 ÷ DN 200 [mm]
  - 1/2" ÷ 8" [inch]
- Body material:**
  - A105 Carbon steel
  - 316 Stainless steel
  - CF8M s.s. (CL 150-300)
- End connections:**
  - Flanged RF (RTJ on request)
- Pressure class:**
  - ANSI 150-300
  - ANSI 600; PN 63-100 (DN≤100)
  - ANSI 900-1500 (DN≤50)
- Options:**
  - 3-Ways (DN≤100)
  - Locking device
  - Stem Extension
- Certifications:**
  - Ex CE/UKCA
  - Pressure Equipment CE/UKCA
  - TPED
  - SIL (up to SIL3)
  - Fugitive Emission rate A
  - Fire Safe
  - API6D on request

Production

Transport:



Industry

Energy

# MAGNUM

## SPLIT WAFER BALL VALVES



### SPECIFICATIONS

- Size:**
  - DN 15 ÷ DN 200 [mm]
  - 1/2" ÷ 8" [inch]
- Body material:**
  - A105 Carbon steel
  - 316 Stainless steel
- End connections:**
  - Flanged RF
- Pressure class:**
  - ANSI 150-300; PN 16-40
  - ANSI 600; PN 63-100 (DN≤100)
- Options:**
  - 3-Ways (DN≤100)
  - Locking device
  - Stem Extension
- Certifications:**
  - Ex CE/UKCA
  - Pressure Equipment CE/UKCA
  - TPED
  - SIL (up to SIL3)
  - Fugitive Emission rate A
  - Fire Safe

Production

Transport:



Industry

Energy

# MAGNUM

## WAFER BALL VALVES



### SPECIFICATIONS

- Size:**
  - DN 15 ÷ DN 100 [mm]
  - 1/2" ÷ 4" [inch]
- Body material:**
  - A105 Carbon steel
  - 316 Stainless steel
- End connections:**
  - Flanged RF
- Pressure class:**
  - ANSI 150-300; PN 16-40
- Options:**
  - Locking device
  - Stem Extension
- Certifications:**
  - Ex CE/UKCA
  - Pressure Equipment CE/UKCA
  - TPED
  - SIL (up to SIL3)
  - Fugitive Emission rate A
  - Fire Safe

Production

Transport:



Industry

Energy



## 424

### 3 PIECES BALL VALVES



#### SPECIFICATIONS

##### ↗ Size:

- DN 8 ÷ DN 50 [mm]
- 1/4" ÷ 2" [inch]

##### 🔧 Body material:

- CF8M / 1.4408 Stainless steel

##### 📏 End connections:

- ISO 7/1
- NPT (ANSI B1.20.1)

##### 🌪 Max pressure:

- 30 bar
- 435 PSI

##### ⚙ Options:

- BW / SW connection

##### 🏆 Certifications:

- Ex CE/UKCA
- Pressure Equipment CE/UKCA

**Production**

**Industry**

**Energy**

## ARES

### PNEUMATIC ANGLE SEAT VALVES



#### SPECIFICATIONS

##### ↗ Size:

- DN 15 ÷ DN 50 [mm]
- 3/8" ÷ 2" [inch]

##### 🔧 Body material:

- Stainless steel

##### 📏 End connections:

- NPT (ANSI B1.20.1)
- ISO 7/1

##### 🌪 Max pressure:

- 25 bar
- 360 PSI

##### 🔄 Variations:

- Double acting
- Spring return N.C. - N.O.
- Manual operated

##### ⚙ Options:

- Namur plate
- Limit switch box

##### 🏆 Certifications:

- Ex CE/UKCA
- Pressure Equipment CE/UKCA

**Production**



**Our history**



**Other applications**



**Sustainability**



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