

# H<sub>2</sub> REFUELLING STATION

- Hydrogen daily filling capacity 200-2000 kg/day
- Containerized size filling capacity 200-1000kg/day
- Nominal Filling Pressure 35 or 70 MPa
- Power supply 400V, 50Hz

# **CONTAINERIZED HOUSING**

EQUIPPED AND FACTORY TESTED, FAST INSTALLATION

Standardized type of container based on capacity

Explosion proof lighting, ventilation

H, detector, flame detector

Automatic firefighting system as an option

## **GAS DISTRIBUTION UNIT**

DISCHARGE OF H<sub>2</sub> FROM GENERATION UNIT (1-3MPa)

# H<sub>2</sub> COMPRESSION UNIT

PRESSURISING OF HYDROGEN TO REQUESTED VALUE FOR STORAGE

1st

**2**nd

3rd

STAGE COMPRESSION
UP TO 45 MPa

STAGE COMPRESSION UP TO 70 MPa STAGE COMPRESSION UP TO 87,5 MPa

# **HYDROGEN COOLER**

COOLING OF HYDROGEN DURING PROCESS OF DEPRESSURING

DIMENSION BASED ON REQUIRED REFUELLING CAPACITY

# **HYDROGEN STORAGE TUBE VESSELS**

STORAGE OF HYDROGEN

Type of pressure tube based on nominal capacity and pressure, standard (PED 2014/68/EU)

Max. operated pressure 3 - 50 MPa

Max. operated pressure 50 - 100 MPa

Storage capacity 1 - 6 m³ water volume per unit

# **HYDROGEN DISPENSER**

REFUELLING OF HYDROGEN FOR PUBLIC OR INDIVIDUAL TRANSPORTATION / CARS FROM STORAGE VESSELS

Capacity 1,1 - 4 kg/min

Rated filling pressure 35 MPa / 70 MPa

Dispenser type TK 17 / TK 16

Relative humidity 20 - 95%

Units  $-kg / Nm^3$ 

Standard - (SAE J2601-1/2), (SAE J2600:2002)





## WEH TK16 - 35 MPa

FILLING, SELF SERVICE, HIGH FLOW NOZZLE

## NOMINAL DIAMETER (DN) 8 mm

#### PRESSURE RANGE

PN=25 MPa | PS=35 MPa PN=35 MPa | PS=45 MPA

## TEMPERATURE RANGE

-40 °C up to +85 °C

**MATERIAL** Corrosion resistant

**SEALING MATERIAL** Hydrogen compatible

#### DESIGN

With plastic thermal protection, gas recirculation and data interface acc. to SAE J2601 protocol.

### **WEIGHT**

Approx. 2.4 kg

## **CONFORMITY / TESTS / APPROVALS**

SAE J2600:2002 Data interface: SAE J2601 / ATEX resp. SAE J2601 / NEC Class 1 Zone 1





### WEH TK17 - 35-70 MPa

ENR(EXCHANGEABLE NOZZLE RECEIVER)
FAST FILLING, SINGLE HANDED
SELF SERVICE

#### NOMINAL DIAMETER (DN) 4 mm

### PRESSURE RANGE

PN=35 MPa | PS=49 MPa PN=70 MPa | PS=87.5 MPa

TEMPERATURE RANGE -40 °C up to +85 °C

MATERIAL Corrosion resistant

SEALING MATERIAL Hydrogen compatible

#### **DESIGN**

With plastic thermal protection, cold protection, hand grip with magnet, exchangeable data interface acc. to SAE TIR J2799 and integrated purging line

WEIGHT Approx. 2.4 kg

#### **CONFORMITY / TESTS / APPROVALS**

Fuelling nozzle: SAE TIR J2799, tests acc. to SAE J2600: 2002 IR data interface: ATEX, NEC or KTL

FLOW RATE DURING PURGING 500 l/h







