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i n n o v a t i o n s · o f · c u s t o m e r s

# Leak - Proof Flow & Control Solution Partner

The Best Partner  
for Value Creation



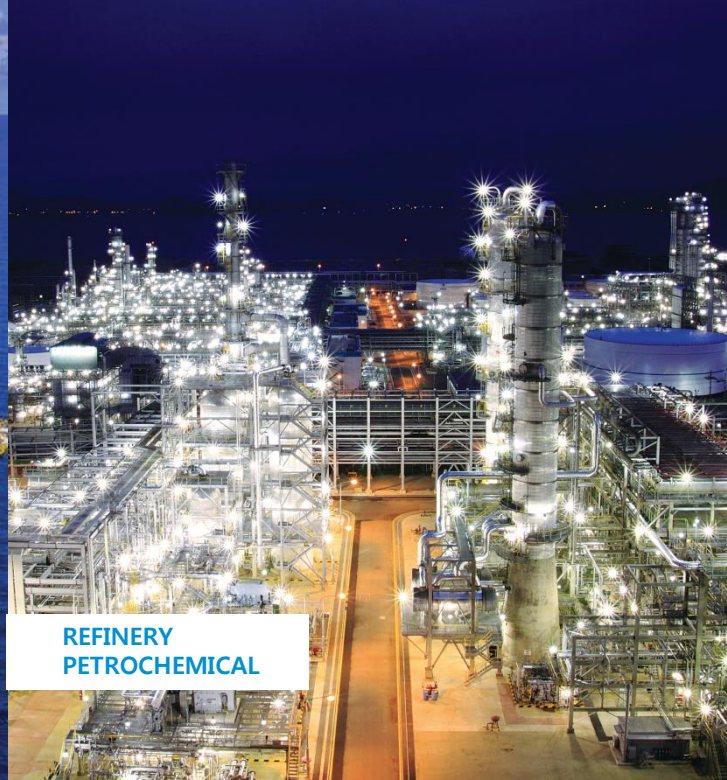
**HanSun**

한선엔지니어링(주)  
HANSUN ENGINEERING CO., LTD.





SHIPBUILDING  
OFFSHORE PLANT



REFINERY  
PETROCHEMICAL

## Your Leak-Proof Flow & Control Solution Partner

Hansun Engineering has been manufacturing tube fittings and valves for instrumentation, hydraulics, flow & control system, oil & gas E&P, refinery, petrochemical processing, shipbuilding & heavy industries, pulp & paper mill etc. **HanSun** and **S-LOK** may not be familiar, but we have been serving our customers for two decades and our technology is more than enough to compete with any other brands in the world.

**S-LOK** has been focusing on a single goal "customer satisfaction" and Hansun Engineering has already established global networks in various industries including famous local (Korean) partners.

Hansun Engineering has been investing heavily in developing new technology and innovative products. We will continue to offer new solutions to various industries and satisfy various global needs.

Our quality policy is to provide the best quality products by satisfying customer's requirements and each related rules & regulation through continuous quality innovation.

We have twenty-year history of creating values for our customers. We are committed to being your best leak-proof flow & control solution partner. We will do our best to create values for our partners.

Our Motto is Value Creation!  
Your leak-proof flow & control solution partner, Hansun Engineering!





**POWER PLANT**



**SEMICONDUCTOR**

## **We support Your Dreams!**

Real champion is the person who are marking efforts day and night to be the best leader. We also want to make our dreams come true in the world along with our valuable customers.



### IN ANY INDUSTRIES

- Process instrumentation / Oil and Gas E&P
- Refinery & Petrochemical / Power Plant
- Shipbuilding / Semiconductor
- CNG Vehicles / LNG Terminal

### IN ANY COUNTRIES

- North & South America
- Europe
- MENA(Middle East & North Africa)
- Asia
- Australia

### WITH ANY SOLUTIONS

- High pressure / Vacuum
- High Temperature / Cryogenic
- Shock / Vibration Resistance
- Lifetime Warranty
- Availability of spare parts in worldwide

Your value creation partner through innovation of technologies is Hansun Engineering in Korea!



### S-LOK® Tube Fittings

- Available in Size: 1/16 in ~ 2 in and 2mm ~ 38mm
- Compression type double ferrule fittings
- Roll threaded construction
- Available variety of configurations
- Excellent vibration resistance
- Excellent leak-proof sealing
- Gaugeability and retighten
- Stainless steel, Brass, Carbon steel, Alloy 400
- CNG/NGV available



### Bite Type Tube Fittings (DIN2353)

- According to DIN2353 standard
- Two cutting edge single ring design
- Stainless steel, Carbon steel and Brass
- Metric tube O.D
- Type approved : Lloyds / DNV / ABS



### Bite Type Tube Fittings (JIS B2351)

- According to JIS B2351 standard
- Single cutting ring design
- Stainless steel, Carbon steel and Brass
- Metric tube O.D and pipe O.D



### 37° Flared Tube Fittings (SAE J514)

- According to SAE J514 and ISO 8434-2 standard
- Useable with either metric or inch tubes
- vibration resistance
- Stainless steel, Carbon steel and Brass



**Instrument Thread Fittings**

- NPT, ISO/BSP, and SAE threads
- Rolled male threads
- Male threads are protected with cap
- Excellent threads constructed to ensure leak-proof & reliable systems
- Stainless steel, Carbon steel
- Size : 1/8 in ~ 2 in piping



**O-Ring Face Seal Fittings**

- From high pressure to critical vacuum
- Easy installation
- Rapid assembly
- Wide range of temperature
- Size : 1/4 in ~ 1 in



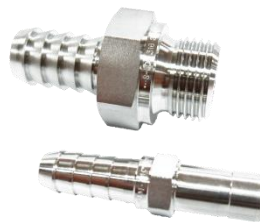
**Clean Fittings**

- Double packaged in clean room (Class 10 and 100)
- Ultra-sonic cleaning with minimum 18MΩ of D.I water
- 316L(VOD, VAR) Stainless steel
- Inch tube O.D



**Push-On Hose Fittings**

- Quick installation
- Reusable for other assembly
- Stainless steel, Brass
- Size : 1/4 in ~ 1 in



**Hose Adapter**

- Easy installation
- Reusable for other assembly
- Stainless steel, Brass
- Size : 1/8 in ~ 1 in



**Hydraulic Pipe Fittings**

- Socket welding & Screwed type
- Pressure class 2,000, 3,000, 6,000, 9,000 fittings to ANSI and JIS standards
- Stainless steel, Carbon steel



**Filters  
(SFI30 Series, SFT60 Series)**

- Pressure
  - SFI30 up to 3,000psig @ 100°F (206barg @ 38°C)
  - SFT up to 6,000psig @ 100°F (413barg @ 38°C)
- Gas and liquid filtration
- filtering ranges :
  - 0.5, 2, 7, 15, 60 and 90 μm
- Replaceable sintered elements
- Stainless steel, Brass
- Sizes : 1/8 in ~ 1/2 in
- CNG/NGV available



**Tubing**

- Standard for ASTM A269 or A213 or equivalent
- Recommended hardness : HRb80 or less
- Full annealed Stainless steel high quality seamless steel tube
- Working pressure are based on allowable value of 20,000psig according to ASME31.3
- Safety Factor = 3.75 : 1 considering ultimate tensile strength 75,000psig
- To determine working Pressure of ASME31.1 multiply the ASME31.3 rating by 0.94
- Size : 1/16 in ~ 2 in, 3mm ~ 38mm



**Flexible Hose  
(SFH Series, SPFH Series)**

- Pressure
  - SFH up to 1,600psig (110barg)
  - SPFH up to 3,000psig (206barg)
- Custom combinations and lengths.
- Metal, PTFE Hose
- Sizes : 1/4 in to 2 in



**Hydraulic – Swaging Unit**

- Available for S-LOK tube fittings
- Max Tube O.D 2 in (38mm)



**Electric – Swaging Unit**

- Available for S-LOK tube fittings and Bite type tube fittings
- Max Tube O.D 2 in (38mm)
- Power : 220V 50/60Hz
- Weight : 20kg



**Integral Bonnet Needle Valve (SNV50 Series)**

- Pressure up to 5,000psig @ 100°F (340barg @ 38°C)
- In-Line or Angle pattern
- Panel mountable
- Vee stem, Regulating stem, Soft seat
- Stainless steel, Brass, and Alloy
- Sizes : 1/8 in ~ 3/4 in



**Integral Bonnet Bar Stock Needle Valve (SBNV60 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Vee stem, Regulating stem, Soft seat
- Stainless steel, Alloy
- Sizes : 1/4 in ~ 3/4 in



**Union Bonnet Needle Valve (SUNV60 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Non-rotating stem
- Panel mountable
- Stainless steel, Alloy 20, Alloy C276
- Size : 1/8 in ~ 1 in



**High Pressure Needle Valve (SHNV100 Series)**

- Pressure up to 10,000psig @ 100°F (689barg @ 38°C)
- PTFE packing on stem for leak tight seal and long life cycle
- Stainless steel
- Sizes : 1/8 in ~ 1 in



**Square Bar Stock Needle Valve (SQNV Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Compact design
- Non-rotating stem
- Panel mountable
- Stainless steel
- Sizes : 1/8 in ~ 1 in



**Rising Plug Valve (SRPV30 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Replaceable soft seat
- Delrin, PEEK or PCTFE seats
- Non-rotating stem
- Stainless steel
- Sizes : 1/4 in ~ 3/4 in



**Gauge & Gauge Root Valve (SGRV60 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Non-rotating stem
- Multi ports and Block and Bleed style
- Stainless steel
- Sizes : 1/2 in ~ 3/4 in



**Manifolds Valve (SMV Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- 2V - Block and Bleed
- 3V, 5V - Block and Bleed, Equalize
- Remote or direct mounting
- Non-rotating stem
- Stainless steel



**Toggle Valve (STGV1 Series, STGV2 Series)**

- Pressure
  - STGV1 up to 300psig @ 100°F (20.6barg @ 38°C)
  - STGV2 up to 200psig @ 100°F (13.7barg @ 38°C)
- Quick open and close
- Panel mountable
- Stainless steel, Brass
- Sizes : Pipe Thread 1/4 in ~ 1/2 in



**Metering Valve (SMTV1 Series, SMTV2 Series, SMTV3 Series)**

- Pressure
  - SMTV1 up to 2,000psig @ 100°F (137barg @ 38°C)
  - STGV2, 3 up to 1,000psig @ 100°F (68.9barg @ 38°C)
- Options with variety of handle
- Panel mountable
- Flow setting lock
- Stainless steel, Brass



**Bleed Valve (SBLV Series)**

- Pressure up to 10,000psig @ 100°F (689barg @ 38°C)
- Compact design
- Stainless steel
- Size : 1/8 in ~ 1/2 in
- CNG/NGV available



**Purge Valve (SPUV Series)**

- Pressure up to 4,000psig @ 100°F (275barg @ 38°C)
- Compact design
- Stainless steel
- Size : 1/8 in ~ 1/2 in
- CNG/NGV available





**3way Test Cock Valve (STV Series)**

- Pressure up to 5,000psig @ 100°F (344barg @ 38°C)
- Stainless steel, Brass
- Size : 1/8 in ~ 1/2 in



**Bar Stock Ball Valve (SBV10 Series)**

- Pressure up to 1,000psig @ 100°F (69barg @ 38°C)
- Low operating torque
- Butterfly handle optional
- Stainless steel, Brass
- Sizes : 1/4 in ~ 1 in



**One-Piece Instrumentation Ball Valve (SBV30 Series)**

- Pressure up to 3,000psig @ 100°F (206barg @ 38°C)
- Multi ports (3-way, 4-way, 5-way, etc.)
- Stainless steel, Brass
- Sizes : 1/16 in ~ 3/4 in



**High Pressure Ball Valve (SBV60 Series)**

- Pressure up to 10,000psig @ 100°F (689barg @ 38°C)
- Panel mounting and locking device
- 2-way, 3-way
- Stainless steel
- Sizes : 1/4 in ~ 1 in
- CNG/NGV available



**Forged High Pressure Ball Valve (SFBV60 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Easy replacement ball seats
- 2-way, 3-way
- Stainless steel
- Sizes : 1/8 in ~ 3/4 in
- CNG/NGV available



**Hydraulic Ball Valve (SDBV Series)**

- Pressure up to 7,200psig @ 100°F (500barg @ 38°C)
- Stainless steel
- Sizes : 1/4 in ~ 2 in



**Trunnion Ball Valve  
(STBV60 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Stainless steel
- Size : 1/4 ~ to 1/2 in
- CNG/NGV available



**Plug Valve  
(SPV30 Series)**

- Pressure up to 3,000psig @ 100°F (206barg @ 38°C)
- Flow throttling
- Easy replacement plug and o-ring
- Stainless steel, Brass
- Sizes : 1/8 in ~ 1/2 in



**Swing Out Ball Valve  
(SOBV Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Easy replacement ball seats
- Stainless steel
- Sizes : 1/8 in ~ 3/4 in
- CNG/NGV available



**Double Block & Bleed Valve  
(SDB Series)**

- Class 150 to Class 2,500 to ASME B16.5
- Saving on space and weight
- Fire safety designed to API 607 / 6FA
- Stainless steel, Duplex, A105
- Sizes: 1/2 in ~ 2 in



**Monoflanges Valve  
(SMNF Series)**

- Class 150 to Class 2,500 to ASME B16.5
- Stainless steel
- Sizes : 1/2 in ~ 2 in



**High pressure Check Valve  
(SCH60 Series)**

- Pressure up to 6,000psig @ 100°F (413barg @ 38°C)
- Cracking pressure : 1/3psig ~ 25psig (0.02barg ~ 1.7barg)
- Stainless steel
- Sizes : 1/8 in ~ 1 in



**Poppet Check Valve  
(SCV30 Series)**

- Pressure up to 3,000psig @ 100°F (206barg @ 38°C)
- Cracking pressure : 1/3psig ~ 100psig (0.02barg ~ 6.89barg)
- Stainless steel, Brass
- Sizes : 1/8 in ~ 1 in
- CNG/NGV available



**One piece Check Valve  
(SCP30 Series)**

- Pressure up to 3,000psig @ 100°F (206barg @ 38°C)
- Cracking pressure : 1/3psig ~ 50psig (0.02barg ~ 3.45barg)
- Stainless steel, Brass
- Sizes : 1/4 in ~ 1/2 in



**Adjustable Check Valve  
(SCA30 Series)**

- Pressure up to 3,000psig @ 100°F (206barg @ 38°C)
- Cracking pressure : 3psig ~ 600psig (0.2barg ~ 41.3barg)
- Stainless steel, Brass
- Sizes : 1/4 in ~ 1/2 in



**Relief Valves  
(SRV30 Series, SRV60 Series)**

- Pressure
  - SRV30 up to 3,000psig @ 100°F (21barg @ 38°C)
  - SRV60 up to 6,000psig @ 100°F (413barg @ 38°C)
- Cracking pressure
  - SRV30 - 10psig to 250psig (0.69barg to 17.25barg)
  - SRV60 - 250psig to 6000psig (17.5barg to 413barg)
- Stainless steel
- Sizes : 1/4 in ~ 1/2 in



**Quick Connectors  
(SQCT1 Series, SQCT2 Series, SQCT3 Series)**

- Pressure
  - SQCT1 up to 3,000psig @ 70°F (206barg @ 20°C)
  - SQCT2 up to 1,500psig @ 70°F (103barg @ 20°C)
  - SQCT3 up to 750psig @ 70°F (51.6barg @ 20°C)
- Quick and easy operation
- Coupling and uncoupling without tools
- Stainless steel, Brass
- Sizes : 1/8 in ~ 1/2 in



**Diaphragm Valve  
(\*\*\*DV Series)**

- Pressure up to 145psig (10barg)
- Manual and Pneumatic actuator
- Assembled, inspected, tested and packaged in a CLASS 10 clean room
- 316L(VOD, VAR) Stainless steel
- Sizes : 1/4 in ~ 1/2 in

# THE BEST QUALITY FITTING & VALVES



## Certificate List



DNV



BV



GL



KR



NK



ABS

## Global Availability / Local Service

Australia · Belarus · Canada · Chile · China · Denmark · Egypt · Germany · Hungary · India · Indonesia · Iran · Italy · Japan · Korea · Kuwait · Malaysia · Mexico · Oman · Qatar · Russia · Singapore · Spain · Swiss · South Africa · Saudi Arabia · Taiwan · Thailand · Turkey · UAE · United States · Uzbekistan · Vietnam



Lloyd's



CCS



Achilles



ECE R110 / ISO 15500 / NGV 3.1



Gost - R



Achilles FPAL



Achilles JQS



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