

Hy-Lok WORLD

Hy-Lok HY-LOK CORPORATION

FOR A BETTER TOMORROW

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P.R.E. Jan. 2015

FOR A BETTER TOMORROW

Together For A Future

Hy-Lok which goals the most satisfaction from customers and prepare for the future, leads the bright and affluent future with advanced technology and high quality.

INTRODUCTION OF HY-LOK CORPORATION

Global Leader of Fluid & Control System
Hy-Lok Corporation

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OUR GOAL

Hy-Lok concentrates where can be the world best!

Best Quality

Customer Satisfaction

Global Management

These are the motives to open Hy-Lok's

"For A Better Tomorrow"

HISTORY

Main history of Hy-Lok Corporation which has been taking central part in Fluid & Control System Industries since it founded in 1977



1977~
Great Distance of Inauguration

- 1977

Established HyupDong Metal Ltd.co.
- 1978

Enhanced type of Company to Corporation
Acquired GL Type Approval Certificate
- 1979

Acquired LR, DNV Type Approval Certificates Ltd.co.
- 1983

Awarded Saudi Aramco "Marjan Gas Compression Project"
- 1989

Listed on the KOSDAQ Market

2000~
New Challenge

- 2000

Changed Company name "HyupDong" to "Hy-Lok Corporation"
Obtained API 6D Monogram
Approved "QGPC" - Tube Fitting
Approved Snamprogetti" - Needle, Manual Ball Valve, Manifold Valve
Awarded NIOC "South Pars Gas Development #2&3 Project"
- Tube Fitting, Needle & Ball Valve, Manifold Valve
Awarded Veba Oil Netherland "VEBA, Hanzte F2A GBS/IPD Project"
- Tube Fitting, Needle & Ball Valve, Manual Ball Valve, DBB Valve, Manifold Valve
- 2001-2003

Established Hy-Lok Asia
Obtained CE Mark
Moved Headquarter and factory to Noksan
Approved "BECHTEL" - Tube Fitting, Manifold Valve
Awarded PEMEX "Madero Refinery Project" - Tube Fitting, Needle & Ball Valve
Awarded Saudi Aramco "PPD/KHUFF GAS Project" - Tube Fitting
Awarded KHNP "Sin-Wolseong #1&2 Project" - Tube Fitting, Manifold Valve

1990~
Expansion & Exploitation

- 1991

Acquired ASME Certificate
- 1995

Established Hy-Lok Europe
Approved "KNPC" - Needle Valve, Manifold Valve
- 1996

Acquired ISO 9001 Certificate
Approved "KOC" - Tube Fitting, Manifold Valve
Approved "KNPC" - Tube Fitting
Approved "ADNOC" - Manifold Valve
- 1997

Acquired KEPIC MN Certificate
- 1998

Founded Hy-Lok R&D Center
Established Hy-Lok USA in Houston
- 1999

Approved "KOC" - Tube Fitting, Manifold Valve
Approved "SABIC" - Tube Fitting

- 2004-2006

Obtained CRN [Canadian Registration No.]
Acquired ISO 14001 & OHSAS 18001 Certificate
Approved "KNPC" - Needle Valve, Manifold Valve
Approved "Saudi Aramco" - Tube Fitting, Needle & Ball Valve, Manifold Valve
Awarded Bechtel "River Protection Project" - Tube Fitting, Needle & Ball Valve, Manifold Valve
Awarded BG "LNG Carrier Project" - Tube Fitting, Needle & Ball Valve, Cryogenic Valve
Awarded GE Energy "GE Energy Project" - Tube Fitting, Needle & Ball Valve
Awarded Chevron "Agbami FPSO Project"
- Needle & Ball Valve, Manual Ball Valve, Manifold Valve, DBB Valve
Awarded AP Moller "LNG Carrier Project"
- Tube Fitting, Needle & Ball Valve, Manual Ball Valve, Cryogenic Valve
Awarded TOTAL "AKPO FPSO Project" - Needle & Ball Valve, DBB Valve

- 2007-2008

Established Hy-Lok China
Established Hy-Lok Nigeria
Approved "Agip KCO"
- Tube Fitting, Manual Ball Valve, Needle Valve, Check Valve
Approved "KNPC"
- Tube Fitting, Needle Valve, Manifold Valve
Awarded QGTC "LNG Carriers Project" - Tube Fitting, Needle & Ball Valve, Cryogenic Valve
Awarded Chevron "Tombua Landana Platform Project"
- Needle & Ball Valve, DBB Valve
Awarded Chevron "Takula Gas Processing Platform Project"
- Needle & Ball Valve, Manual Ball Valve, DBB Valve

- 2009-2010

Acquired ASME N, NPT Stamp and NS Certification
Hy-Lok USA, Move to Houston, TX
Approved "SABIC" - Tube Fitting, Needle Valve
Approved "ADGAS"
- Tube Fitting, Ball/Needle Valve, Manifold Valve, DBB Valve
Approved "ADMA-OPCO"
- Manual Ball Valve, Manifold Valve, DBB Valve
Approved "ADCO"
- Tube Fitting, Needle Valve, Manifold Valve, DBB Valve
Approved "TAKREER"
- Tube Fitting, Ball/Needle Valve, Manifold Valve, DBB Valve
Approved "GASCO" - Tube Fittings, DBB Valves, Tube
Awarded ADMA-OPCO "Umm Shaif Facilities Project"
- Tube Fitting, Manual Ball Valve, DBB Valve, Manifold Valve
Awarded TOTAL "USAN FPSO Project"
- Needle & Ball Valve, DBB Valve
Awarded TOTAL "OFON Field Development Phase2 Project"
- DBB Valve
Awarded TOTAL "Bongkot Field Phase 4A Project"
- DBB Valve
Awarded TOTAL "Pazfior FPSO Project" - DBB Valve

2011~
Hy-Lok World

- 2011-2012

Approved "SEC" - Tube Fitting, Ball/Needle Valve, Manifold Valve
Approved "POGC" - Instrument Tube & Fittings, Manifold Valve, Needle & Ball Valves
Approved "FERTIL" - Tube Fitting, Needle Valve, Manifold Valve
Approved "KNPC" - Pipe Fitting, Needle Valve, Manifold Valve
Awarded TAKREER "RRE Project Package 3 Project"
- Tube Fitting, Needle & Ball Valve, Manifold Valve
Awarded Eni Norge "Goliat FPSO Project" - Manual Ball Valve, DBB Valve
Awarded ADGAS "IGD-Das Island Project" - Tube Fitting, DBB Valve
Awarded TOTAL "CLOV FPSO Project"
- Needle & Ball Valve, Manual Ball Valve, DBB Valve, Manifold Valve
Awarded ENEC "Barakah Nuclear Power Plant Units #1, 2 Project"
- Tube Fitting, Manifold Valve
Awarded Saudi Aramco "Yanbu Export Refinery #2 Project"
- Tube Fitting, Needle & Ball Valve
Awarded Teekay Petrojarl "FPSO Project"
- Tube Fitting, Manual Ball Valve, DBB Valve
Awarded Rasgas "BARZAN Gas Platform Project"
- Manual Ball Valve, DBB Valve

- 2013-2014

Established Hy-Lok Middle East
Acquired API 6A Certificate
Acquired NCEC by 'Nigerian Content Development and Monitoring Board' in Nigeria
Approved "PETRONAS" - Tube Fitting, Manual Ball Valve, Manifold Valve
Approved "Eni Saipem" - Tube Fittings, Valves, Tubing
Approved "KOC" - Fitting, Valves, Tubing
Awarded Carigali Hess "Carigali Booster Compression Project"
- Manual Ball Valve, DBB Valve
Awarded Chevron "Matumaira Sul Fixed Platform Project" - DBB Valve
Awarded INPEX "Ichthys Project" - DBB Valve
Awarded ADMA-OPCO "Umm LuLu Package#1 Project" - DBB Valve
Awarded ADMA-OPCO "Sarh Package 4 Project"
- Tube Fitting, Manual Ball Valve, DBB Valve
Awarded ADMA-OPCO "Zakum Oil Lines Replacement Phase 1 Project"- DBB Valve
Awarded TOTAL "Moho Nord FPU Project" - DBB Valve
Awarded TOTAL "Martin Linge Platform Project" - DBB Valve
Awarded ZADCO "Upper Zakum 750 Project" - DBB Valve
Awarded NSRP "NSRP Project" - Tube Fitting, Needle & Ball Valve

BUSINESS AREA

To achieve continuous and powerful business foundation, Hy-Lok has been concentrating on the three major operations "Tube Fittings", "Valves" and "Package Solution".

The most characteristic of Hy-Lok is to focus on "Competitive Products" and create higher value-added profits. Hy-Lok is proud of its productivity, know-how and service to accomplish the maximum benefits of customer's business.



Tube Fittings

- Hy-Lok Tube Fitting
- Bite Type Tube Fitting (DIN 2353)
- 37° Flared Tube Fitting (SAE J514)
- OF O-ring Face Seal Fitting
- High Pressure Fitting
- Clean Fittings
- Instrument Thread & Weld Fitting
- Pipe Fitting (ASME 16.11)



Valves

- Needle Valve
- Ball Valve
- Manifold Valve
- Double Block & Bleed Valve
- Cryogenic Valve
- Manual Ball Valve



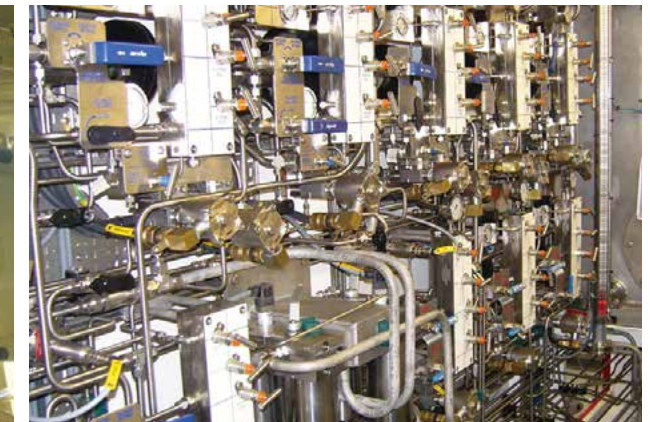
Package Solution

- Air Manifolds
- Instrument Cabinet
- Sampling System
- Air Pipe Module



OFFSHORE

Producing oil and gas from Subsea oil well,
transferring output.



Hy-Lok possesses world-class production facilities to be satisfied with strict technical specification and quality standard required in offshore industry, and the quality is achieved from major companies.



Double Block & Bleed Valve

Manual Ball Valve

LNG

Storage and transportation LNG taking up about 1/600 the volume of natural gas in the gaseous condition.



LNG cryogenic valves required at low temperature down to -196°C are installed and supplied to international outstanding LNG carriers.



Cryogenic Ball, Needle Valve

CHEMICAL & PETROCHEMICAL

Producing diversified fuels and chemicals derived from petroleum.



A long term process safety and regular maintenances are required petrochemical instrumentation field. Hy-Lok produces stainless steel products having a high corrosion and heat resistance, and products of chemically resistant special materials.

Market share



Hy-Lok Tube Fitting, Gate Valve, Modular Valve



POWER PLANT

Generating electricity by spinning turbine using high pressure and high temperature steam in a boiler.



Hy-Lok products are variously qualified to meet extreme condition of high temperature and pressure in large scale of plant sector such as thermal power plant and nuclear power plant, and our products are installed in large scale of power facilities in the world market.



Manifold Valve

Hy-Lok Tube Fitting



Hy-Lok designs and manufactures air-braking module and components which meet strict operating conditions of high speed electric locomotive, and they have been performed successfully.

Market share

ROLLING STOCK

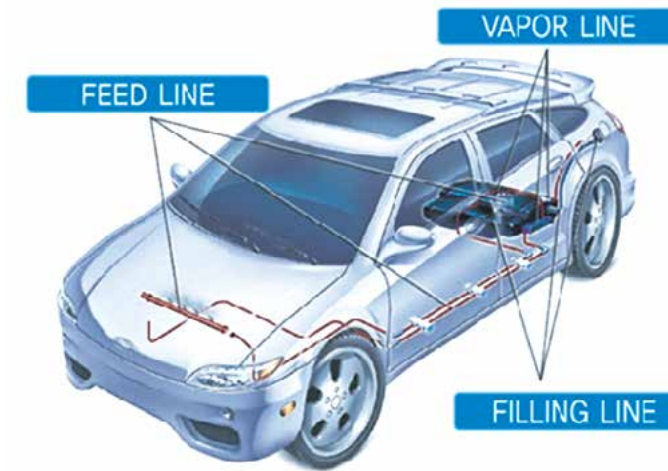
Manufacturing rolling stocks running on rails for freight and passenger transport.



DIN2353 Tube Fitting, RS Fitting

CNG

Producing compressed natural gas under high pressure and filling CNG Vehicles.



Quality of diversity products for natural gas vehicle fuel system is achieved by world-wide major automobile companies.



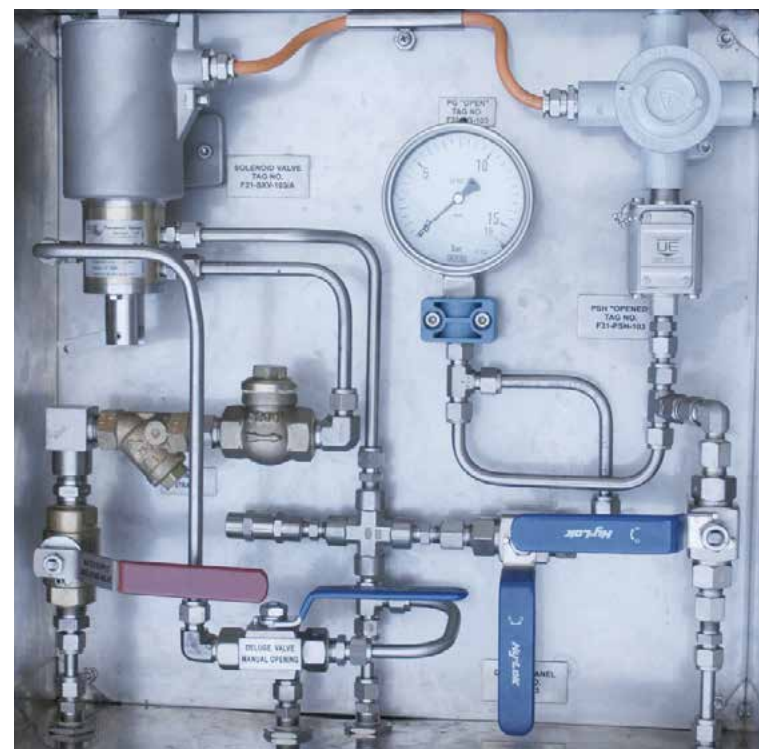
Receptacles Ball & Check Valves Gas & Tee Filters Tube Fittings



Hy-Lok provides various package solution with reduced expenses such as installation and maintenance costs by performing all fabrication procedures from engineering to manufacturing and test.

PACKAGE SOLUTION

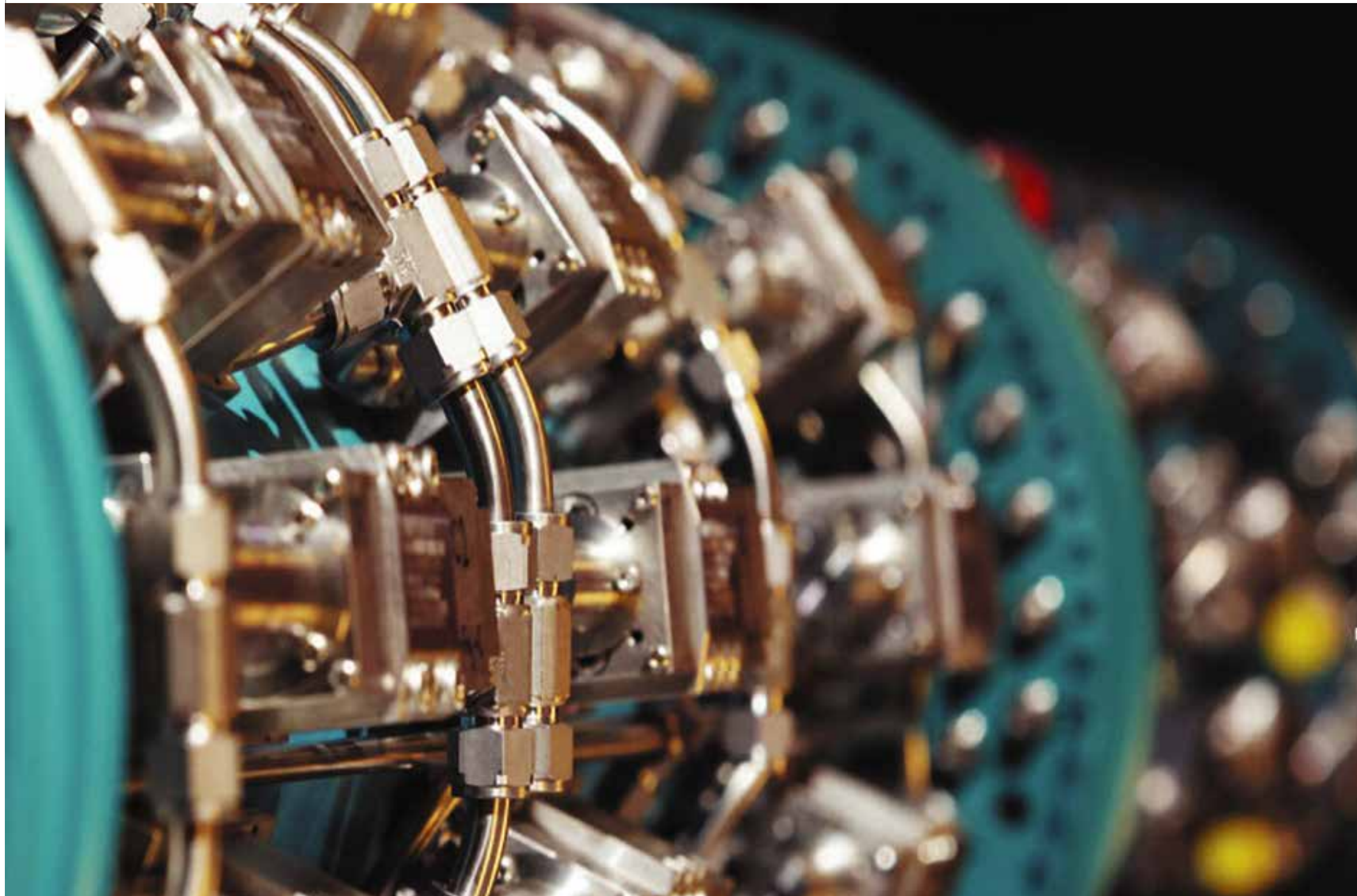
Manufacturing diverse Panel and Instrument Cabinet connecting tubing and piping with Hy-Lok fittings and valves.



Manifold valve, Flush Ring

MACHINERY

Production of machine and equipment to support or replace human production activities.



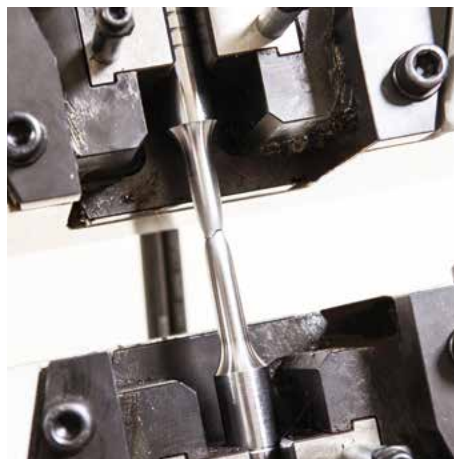
Hy-Lok provides services for customized solution by clients and products complied with various standards, such as SAE, DIN, ISO for diverse machinery equipment piping components.



SO Series Ball Valve, Hy-Lok Tube Fitting



1_ Raw Material



2_ Material Test



3_ Material Cutting



4_ Forging



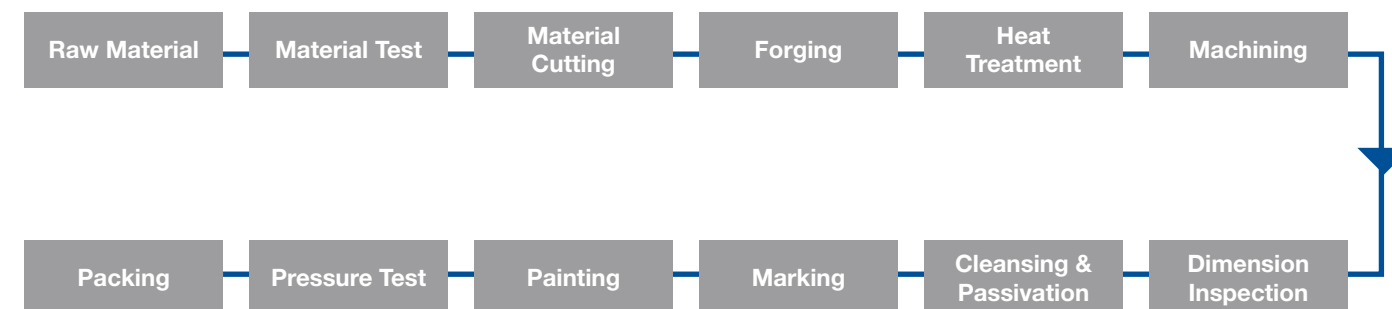
5_ Heat Treatment



6_ Machining

Hy-Lok Manufactures Thousands of Products Through the Experts and Excellent Facilities.

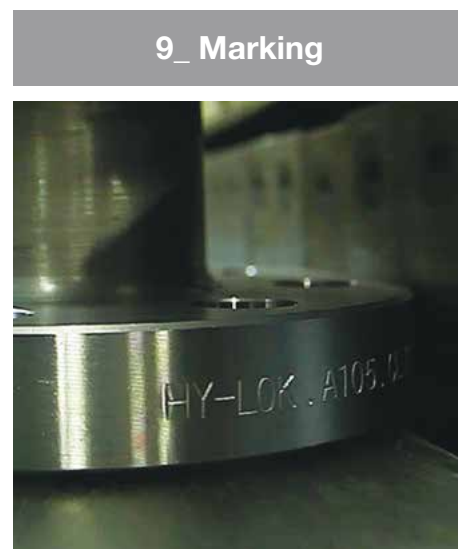
Hy-Lok's diverse standard and special products are designed and produced carefully by strict production standard. Hy-Lok is striving to manufacture reliable products for customer's satisfaction.



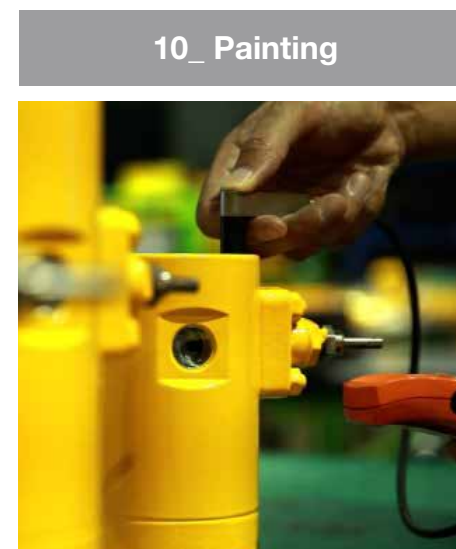
7_ Dimension Inspection



8_ Cleansing & Passivation



9_ Marking



10_ Painting



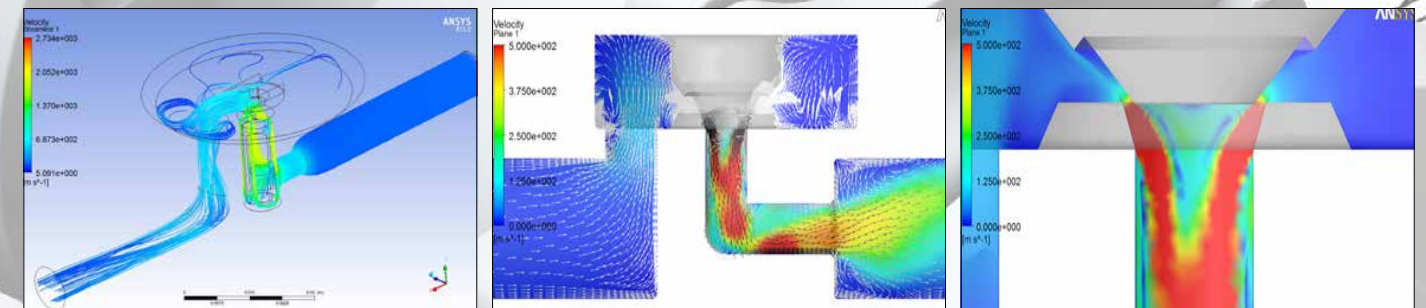
11_ Pressure Test



12_ Packing

RESEARCH & DEVELOPMENT

40 years experiences for Reserch & Development have made Hy-Lok as the top of the industry. Hy-Lok has been investing over 4% of out of total annual turnover into R&D for providing the best solution to customer's technical questions through the securing of excellent manpower and advanced facilities.



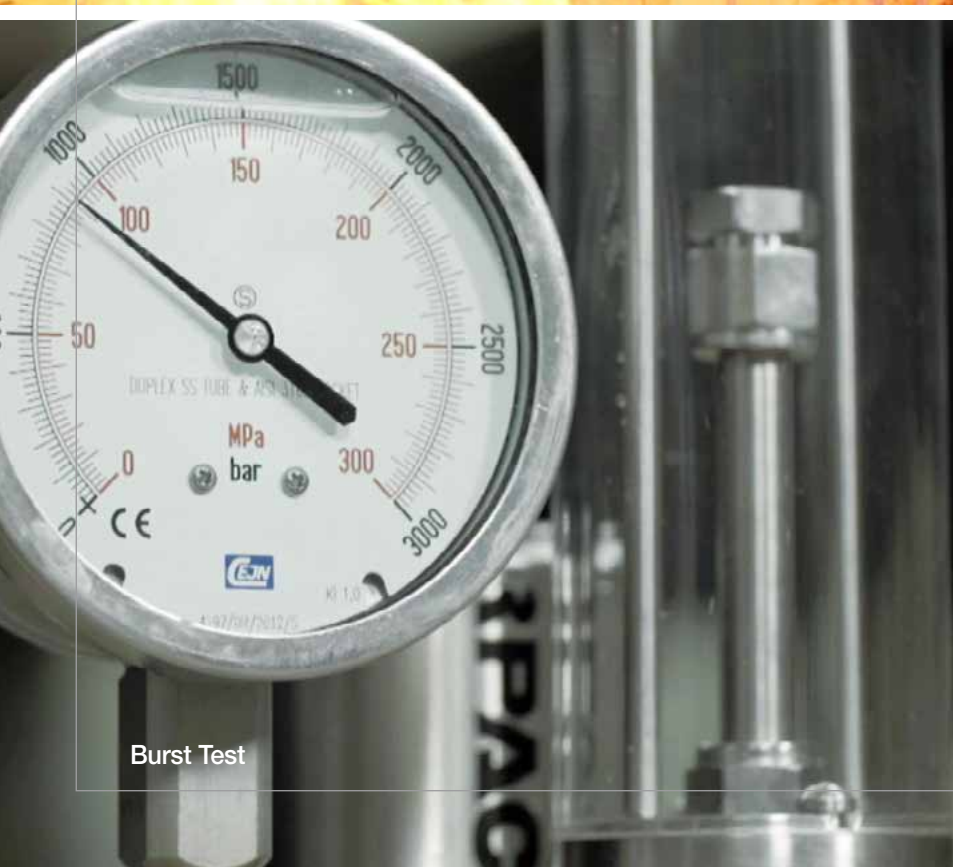
Computation Fluid Dynamics with ANSYS



Pressure Test



Fire Test



Burst Test



Roundness Test



Cryogenic Test

Hy-Lok Quality Control System ensures that we can produce components to the same level of Quality time-after time.

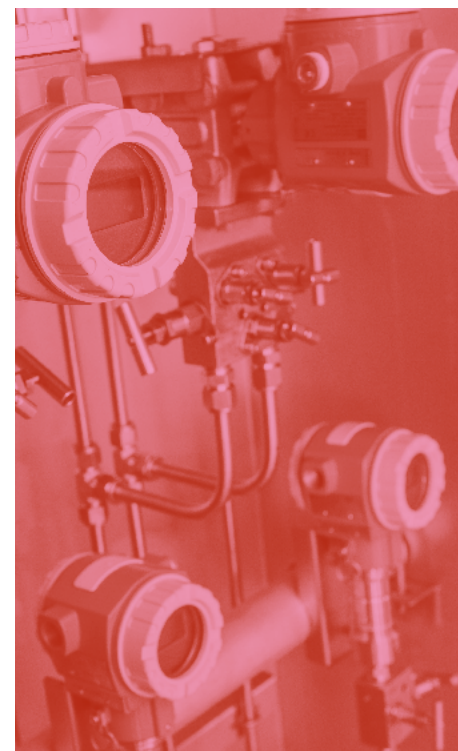
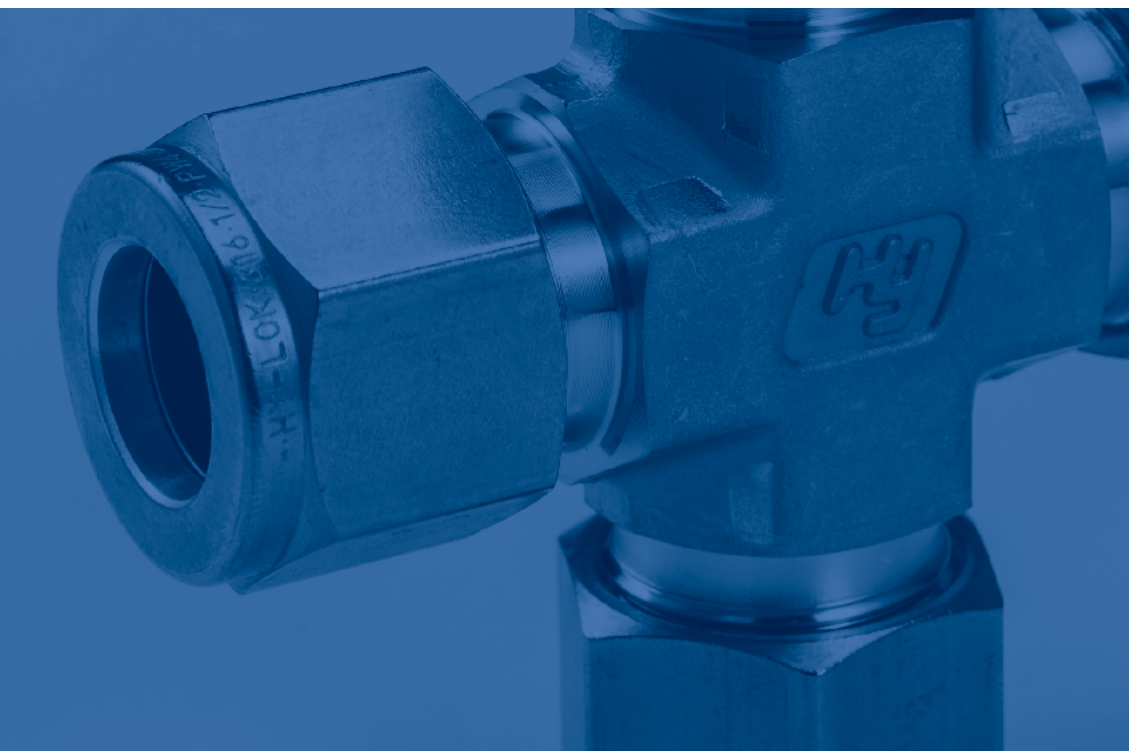
Hy-Lok makes every effort to manufacture to meet the customer's requirement and severe specification through the advanced measurement facilities and diverse test equipments.

Through the Hy-Lok products, you get more than what you expect.

Quality System Certifications

- ISO 9001
- ASME N
- NPT Stamp & NS
- PED-97/23/EC
- API Q1 & 6A/6D
- KEPIC MN
- ISO 14001(Environment)
- OHSAS 18001(Safety)
- ISO/TS 16949

PRODUCTS LINE-UP

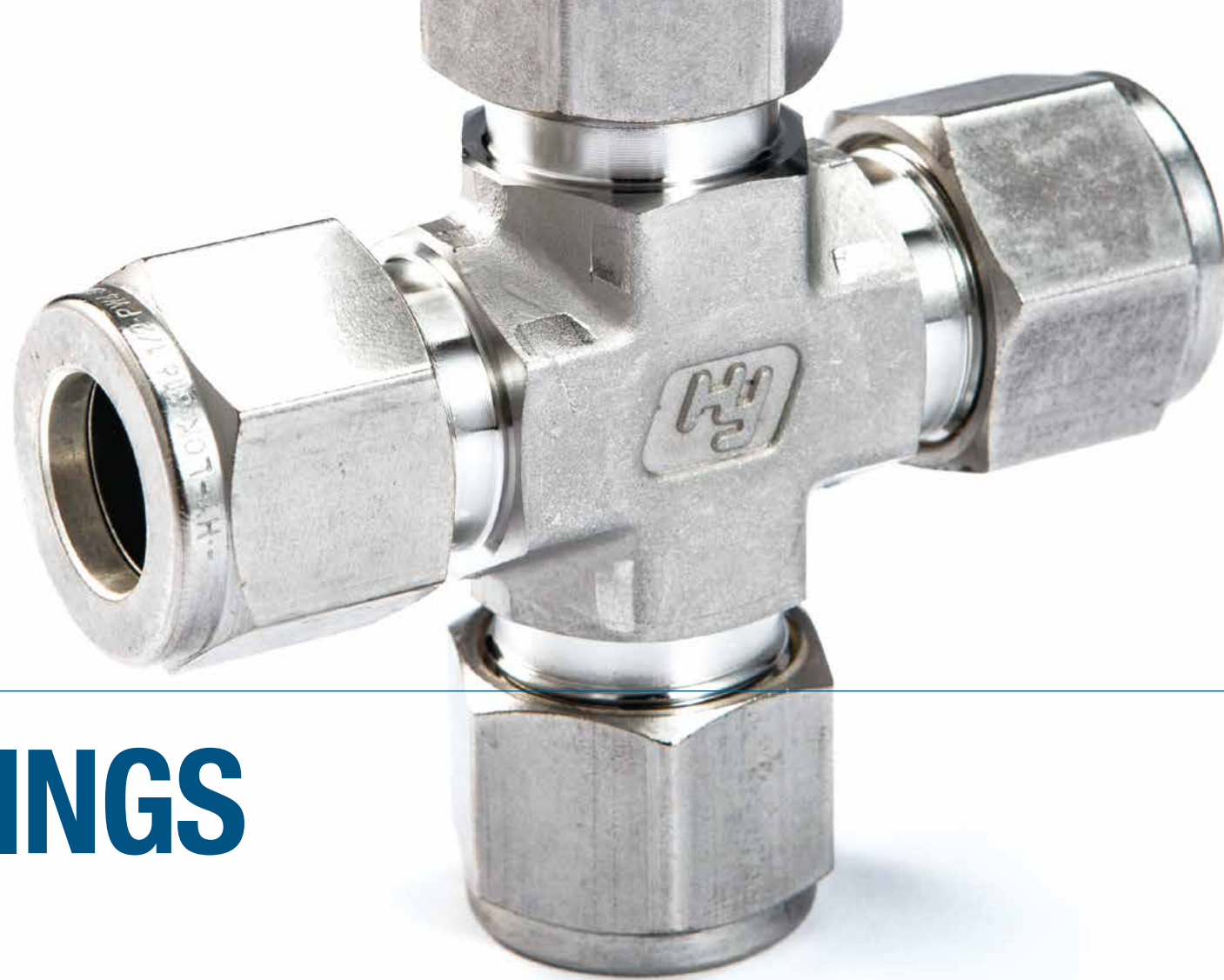


Fittings

Valves

Package Solution

Ezy-Tools



FITTINGS

Hy-Lok Fittings have been designed with great care to meet the specifications required for a wide range of applications in a various industries and satisfied production standards. Hy-Lok Fittings have been used in Most of the industrial fields and supplied to well-known end users in the world on the basis of the best quality and reliable and wide technology.

- Hy-Lok Tube Fitting
- Bite Type Tube Fitting (DIN 2353)
- 37° Flared Tube Fitting (SAE J514)
- OF O-ring Face Seal Fitting
- High Pressure Fitting
- Clean Fitting
- Instrument Thread & Weld Fitting
- Pipe Fitting (ASME 16.11)
- Hydraulic Flange (SAE J518/ISO 6164)

Hy-Lok Tube Fitting

CAT NO. H-200TF

- APPLICATIONS**
- Instrumentation, High pressure service, General service
- FEATURES**
- Compression double ferrule design
 - Vibration resistance
 - Complete interchangeability
 - Gaugeability
 - Excellent make up and re-make life



Bite Type Tube Fitting (DIN 2353)

CAT NO. H-230TF

- APPLICATIONS**
- Hydraulic, Pneumatic, Lubrication
- FEATURES**
- Bite type single ferrule design
 - According to DIN 2353/ISO 8434-1
 - Two-cutting edges and stop edge design
 - Useable hoses connection
 - LL Series - Very Light/ L Series - Light/ S Series - Heavy



37° Flared Tube Fitting (SAE J514)

CAT NO. H-240FF

- APPLICATIONS**
- Hydraulic, Pneumatic
- FEATURES**
- 37° angle and seats design
 - According to SAE J514/ISO 8434-2
 - Useable with either metric or inch tubes
 - Vibration resistance
 - Available O-ring seal
 - Usable Hose connection



OF O-ring Face Seal Fitting

CAT NO. H-260CF

APPLICATIONS

- High pressure service, Hydraulic system, Gas process

FEATURES

- O-ring face seal design
- According to SAE J1453/ISO 8434-3
- Zero clearance provides
- Easy maintenance
- High pressure



High Pressure Fitting

CAT NO. H-100HP

APPLICATIONS

- Oil & Gas process, Injection system

FEATURES

- Coned and threaded connection design
- Repeated assembly and disassembly
- Increased pressure handing capability
- Sour gas service available



Clean Fitting

CAT NO. H-250CF

APPLICATIONS

- High purity gas line, Vacuum system

FEATURES

- Auto welding design
- 316, 316L, VOD, VIM. VAR Stainless Steel
- Cleaning : 18cm Hot D.I water
- Cleanness : Class 10
- Helium leak rate 1 x 10 atm.cc/sec.



Instrument Thread & Weld Fitting

CAT NO. H-300PF

APPLICATIONS

- Instrumentation, General service

FEATURES

- Thread : Available NPT and ISO pipe thread end
- Weld : Available socket and butt weld end



Pipe Fitting (ASME 16.11)

CAT NO. H-310PF

APPLICATIONS

- Power plant, Chemical, General service

FEATURES

- Forged material
- Pipe thread, Socket weld end
- Available NPT, BSPT
- According to ASME B16,11 / MSS-SP95



Flange : Hydraulic Flange (SAE J518/ISO 6164)

APPLICATIONS

- High pressure service
- Hydraulic system

FEATURES

- O-ring face seal design
- According to SAE J518/ISO 6164
- Easy repair and maintenance
- Compact design
- Available bonded seal face



- NV & SV Series : Integral Bonnet Needle Valve
- GB & GH Series : Union Bonnet Needle Valve
- SVH 1, SVH 2 Series : High Pressure Needle Valve
- RP Series : Rising Plug Valve
- M Series (2, 3, 5 Valve) : Instrument Manifold/Gage/Root Valve
- Double Block & Bleed Valve (DBB Valve)
- Monoflange
- 102 Series : High Pressure Ball Valve
- 110 & 110P Series : Low Pressure Ball Valve
- 112 Series : Capsuled Ball Valve
- 115 Series : Ball Valve
- SO Series : Swing Out Ball Valve
- 105 Series : High Pressure Ball Valve
- T Series : Trunnion Ball Valve
- P Series : Plug Valve
- 700 Series : Check Valve
- 700H Series : High Pressure Compact Check Valve
- RV1, RV2 Series : Relief Valve
- FT Series : Micron Tee Filter
- FI Series : Micron In-Line Filter
- Bleed & Purge Valve
- DV Series : Diaphragm Valve
- Cryogenic Needle & Ball Valve
- 116 Series : SAE Flanged Ball Valve
- 118 Series : ANSI Flanged Ball Valve

NV & SV Series : Integral Bonnet Needle Valve

CAT NO. H-100NV & H-101NV

APPLICATIONS

- Instrumentation, General service

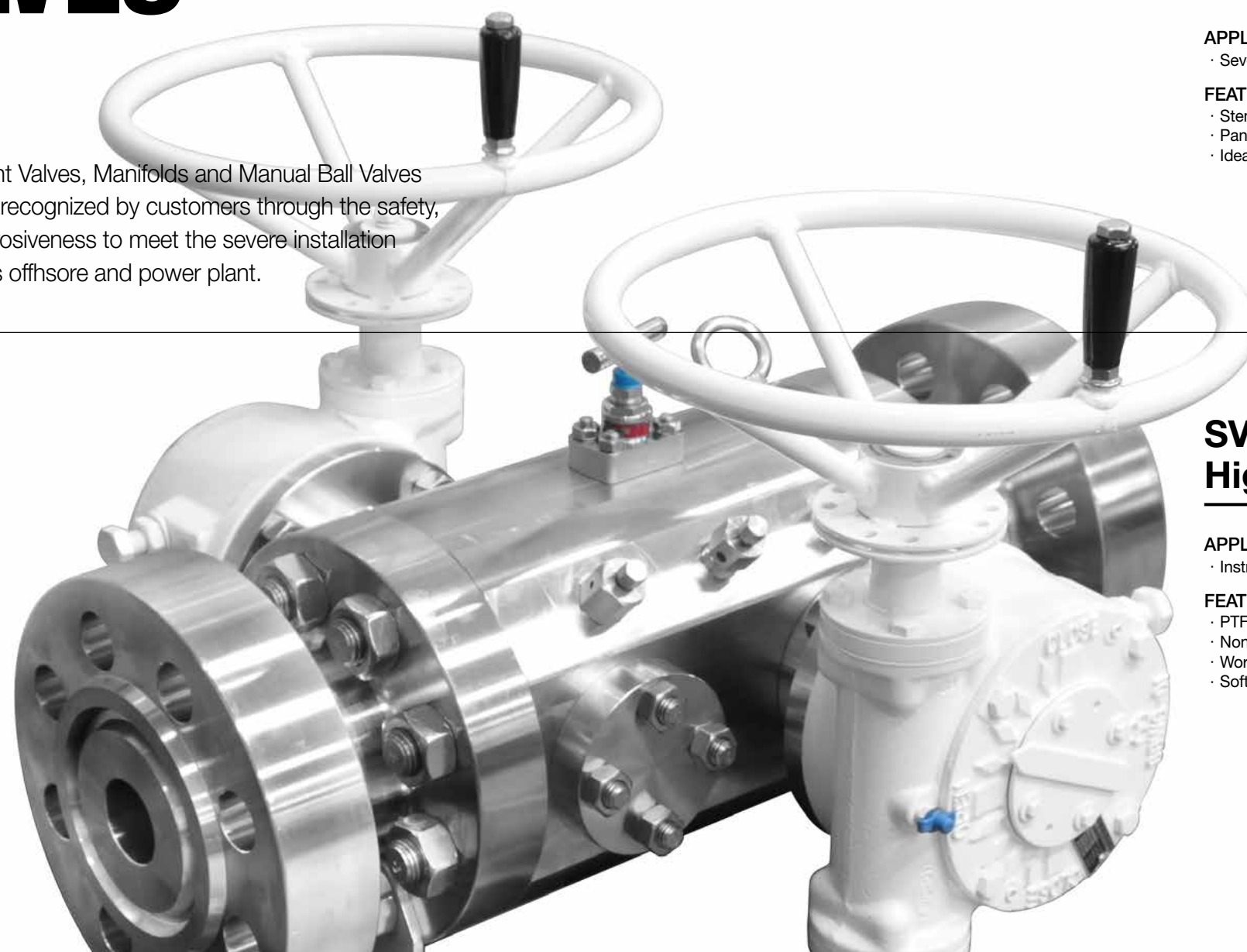
FEATURES

- For positive leak tight shut-off and regulation of flow
- Choice of three stem tips
- Soft tipped optional seating available for gaseous



VALVES

Hy-Lok Instrument Valves, Manifolds and Manual Ball Valves have been highly recognized by customers through the safety, reliability and corrosiveness to meet the severe installation condition such as offshore and power plant.



GB & GH Series : Union Bonnet Needle Valve

CAT NO. H-102NV & H-104NV

APPLICATIONS

- Severe service, High pressure and temperature

FEATURES

- Stem packing below the threads
- Panel mount
- Ideal for steam blow down



SVH 1, SVH 2 Series : High Pressure Needle Valve

CAT NO. H-103NV

APPLICATIONS

- Instrumentation, High pressure service

FEATURES

- PTFE Packing provides leak tight seal
- Non rotating tips
- Working pressure up to 10,000psi(690bar)
- Soft tipped optional seating available for gaseous



RP Series : Rising Plug Valve

CAT NO. H-RP100

APPLICATIONS

- Sour gas service, Oil & Gas process

FEATURES

- High flow capacity
- Roddable O-ring seal and soft seat
- Straight through flow pattern
- 100% repeatable bubble tight shut off



M Series (2, 3, 5 Valve) : Instrument Manifold/Gage/Root Valve

CAT NO. H-120MV

APPLICATIONS

- Pressure & Differential pressure measurement

FEATURES

- 2-Valve : Block and bleed
- 3, 5-Valve : Block and bleed, Equalize
- Root Valve : Available OS & Y bonnet and multi port



Double Block & Bleed Valve (DBB Valve)

CAT NO. H-100PIV

APPLICATIONS

- Primary isolation in Oil & Gas process

FEATURES

- Saving on space and cost
- Increased safety
- Easy installation and maintenance
- Fire safety designed to API 607/6FA
- Available Ball or Needle Valve



Monoflange

CAT NO. H-100PIV

APPLICATIONS

- Primary isolation, Pressure measurement

FEATURES

- 2 Block needle valve and 1 bleed needle valve
- Saving on space and cost
- Increased safety
- Easy installation and maintenance
- Available vertical or horizontal installation



102 Series : High Pressure Ball Valve

CAT NO. H-102BV

APPLICATIONS

- High pressure service, Instrumentation, Gas process

FEATURES

- Easy replacement of ball seats,
- 2-way shut-off, 3-way switching designs
- Wide temperature application range
- Working pressure up to 6000psi(413.7bar)
- Low operation torque



110 & 110P Series : Low Pressure Ball Valve

CAT NO. H-110BV & H-110BPTV

APPLICATIONS

- Pneumatic, Multi-Purpose, General service

FEATURES

- Compact design with one pipe hexagon body
- Low operation torque
- Available locking device
- Available push turn handle (110P Series)



112 Series : Capsuled Ball Valve

CAT NO. H-112BV

APPLICATIONS

- Instrumentation, Oil & Gas process

FEATURES

- Available in Multi ports with 3-way, 4-way, 5-way...
- 3-way switching or selecting
- Two-piece seat fully encapsulated the ball
- Minimum dead space is easily cleaned
- One piece compact design,
- Full operating pressure in any port



115 Series : Ball Valve

CAT NO. H-230TF

APPLICATIONS

- Hydraulic System, Oily media

FEATURES

- Available Fire safety designed to API 607, BS 6755 Part 2
- High pressure range
- Full bore design
- Available locking device



SO Series : Swing Out Ball Valve

CAT NO. H-SOBV

APPLICATIONS

- Instrumentation, Oil & Gas process

FEATURES

- Standed, Easy swing out,
- Zero clearance for repairs in line
- Anti-static device, Locking device
- Spring loaded seats and stem seals
- Long life cycle
- Available up to 1"flow design



105 Series : High Pressure Ball Valve

CAT NO. H-105BV

APPLICATIONS

- High pressure service, Oil & Gas process

FEATURES

- 2-way shut off, 3-way switching designs
- Fire safety design
- Available locking device
- NACE MR-01/075 compliant materials available



T Series : Trunnion Ball Valve

CAT NO. H-100TBV

APPLICATIONS

- High pressure service, CNG fueling system

FEATURES

- 2-way shut off, 3-way switching or selecting designs
- Spring loaded ball seats, Low operation torque
- Full operating pressure in any port
- Trunnion bearings provide high cycle life
- 10,000psi(689bar) rating with Peek Seat
- Excellent for CNG



P Series : Plug Valve

CAT NO. H-P100

APPLICATIONS

- Instrumentation, General service

FEATURES

- Throttling capability with straight-through flow
- Easy replacement of plug and O-ring
- O-ring plug seat
- Low operation torque
- Optional Upstream or downstream vent
- Typically used in laboratories



700 Series : Check Valve

CAT NO. H-700T

APPLICATIONS

- Oil & Gas process

FEATURES

- Poppet design, O-ring seat provide leak tight
- Back stopped poppet to minimize spring stress
- Cracking pressure : 1/3, 1,5,10, 25 and 100psi



700H Series : High Pressure Compact Check Valve

CAT NO. H-700T

APPLICATIONS

- High Pressure service, Oil & Gas Process, General service

FEATURES

- Poppet design, O-ring Seats provide leak tight
- Provide large flows, Minimum of chatter and fluctuation
- Suitable for high integrity leak rates and re-sealing capabilities
- Back stopped poppet to minimized spring stress
- Cracking Pressure : 1/3, 1, 5, 10, 25, 50, 75 and 100psi
- High pressure



RV1, RV2 Series : Relief Valve

CAT NO. H-RV100

APPLICATIONS

- Prevent over pressure

FEATURES

- Angle pattern
- External relief setting
- Provide large flows

RV1

- Adjustable pressure setting
- One spring, Cracking pressure range 10~250psi
- Working pressure up to 3000psi(206bar)
- Color coded springs and labels indicate spring cracking range

RV2

- Adjustable pressure setting
- Seven springs, Cracking pressure range 225-6000psi
- Working pressure p to 6000psi(413bar)
- Preset from factory and comes with standard springs



FT Series : Micron Tee Filter

CAT NO. H-F100

APPLICATIONS

- Particle trapping, Sampling system

FEATURES

- Tee pattern
- Easy replacement of filter elements
- Optional by pass port : Provided purging sampling, Self-cleaning
- Replaceable sintered 316 Stainless Steel filter element



FI Series : Micron In-Line Filter

CAT NO. H-F200

APPLICATIONS

- Particle trapping

FEATURES

- Compact in line pattern
- Replaceable sintered 316 Stainless Steel filter elements



Bleed & Purge Valve

CAT NO. H-100BPV

APPLICATIONS

- Bleeding or purging of liquids and gaseous

FEATURES

- Compact design
- Ensure safe relief of system pressure
- Valve vent line pressure to atmosphere



DV Series : Diaphragm Valve

CAT NO. H-DV100

APPLICATIONS

- Semiconductor, Biotech, Pharmaceutical

FEATURES

- 2-way Design
- 316L VOD Stainless Steel
- Metal bellows seal
- Long life cycle
- PCTFE seats



Cryogenic Needle & Ball Valve

CAT NO. H-CRYO100

APPLICATIONS

- Cryogenic service, LNG/LPG, Liquefied Nitrogen

FEATURES

- Easy maintenance of in-line
- Dust cap functions as position indicator as well
- Top entry bolted extension bonnet
- Fire safety designed to API 607/6FA, BS 6755 Part 2



116 Series : SAE Flanged Ball Valve

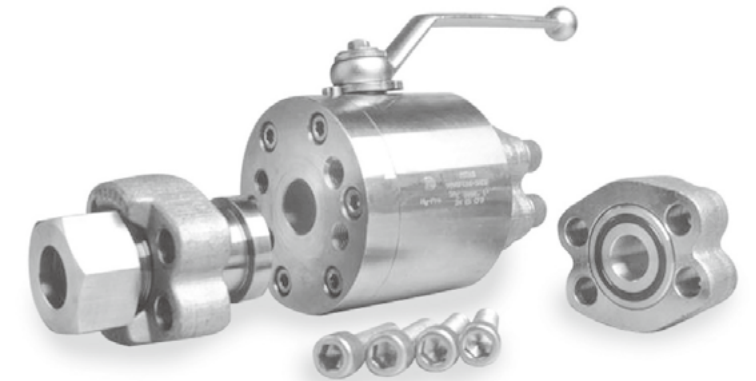
CAT NO. H-116BV

APPLICATIONS

- Hydraulic system, Fire fighting system

FEATURES

- Compact design
- Fire safety designed to API 607, BS 6755 part 2
- High pressure
- Available ISO flange



118 Series : ANSI Flanged Ball Valve

CAT NO. H-116BV

APPLICATIONS

- Hydraulic system, OIL & Gas process

FEATURES

- Fire safety designed to API 607, BS 6755 Part 2
- Available Forging & Casting material



PACKAGE SOLUTION

Hy-Lok has designed and manufactured customized Package Solution such as Air Manifolds, Air Pipe Module for Train Brake System and Instrument Panel operated in power plant. Hy-Lok has prepared in any circumstances with concerted efforts through the accumulated technology & know-how for 40 years.

- Air Manifolds
- Instrument Cabinet
- Sampling System
- Air Pipe Module

Air Manifolds

APPLICATIONS

- Instrumentation, General service

FEATURES

- Distribution
- Stainless Steel pickled, Carbon Steel galvanized
- Valves : Instrument Needle valve, Ball Valve
- Distribution pipe : Pipe N.B. 1" ~3"
- Outlet ports : 2~20 ports



Instrument Cabint

APPLICATIONS

- Instrumentation, power plant

FEATURES

- Enclosure with protection box
- Pickled Stainless Steel
- Painted Carbon Steel
- IP Grade: IP66
- Safety Glass
- Anti-Static and Insulated



Sampling System

APPLICATIONS

- Oil & Gas process

FEATURES

- A continuous flow of sample assures representative sample. Quick Disconnects allow for easy removal and transportation of the sample cylinder. Self-sealing quick disconnect fittings prevent leakage when cylinder is removed.



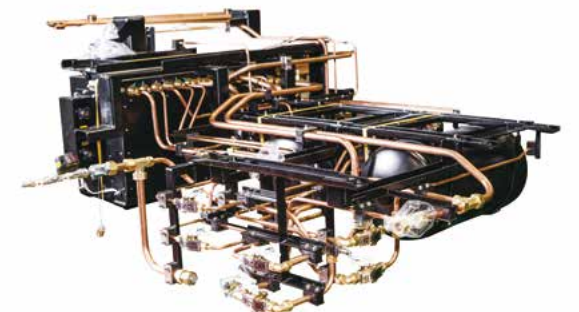
Air Pipe Module

APPLICATIONS

- Air brake control system for eletric train

FEATURES

- Air supply
- Frame : Stainless Steel
- Reservoir : Aluminum
- Air pipe : $\varnothing 10.0 \sim \varnothing 28.0$ O.D
- Bite type tube fittings(DIN 2353)





EZY-TOOLS

The proper tube selection and installation are key ingredients to complete the Leak-Free and Reliable Fluid & Control System. Hy-Lok portable machines for tube fabrication are prepared to tube cutting, deburring, bending and assembling for use in installation of Tubing System. To save the working hours and prevent the risk of careless working, these machines help our customer to complete the perfect Tubing System.

- EZY-SAW ES250
- EZY-GRAT EG642
- EZY-BENDER OK070
- EZY-BENDER MB42
- EZY-MAT I Pre-Assembly Machine
- EZY-MAT II Pre-Assembly Machine

EZY-SAW ES250

APPLICATIONS

- Prevent work hardening the tube end Assure a square cut on the tubing, Coolant Pump

SPECIFICATIONS

- Cutting ability : Max O.D 80 mm
- Power Supply : 220V 50/60Hz
- Saw Blade : HSS - Ø250 x 32 x 2t
- Weight : 70 kg



EZY-GRAT EG642

APPLICATIONS

- Enable to clean the inner & outer tube quickly Long tool life can guaranteed, Easy change to inner and outer tool

SPECIFICATIONS

- Deburring ability : Max O.D 2in. (42mm)
- Power Supply : 220V 50/60Hz
- Weight : 30 kg



EZY-BENDER OK070

APPLICATIONS

- High speed bending, 90° with 3 sec.
- Digital regulator for bend angle, Easy change to accessories

SPECIFICATIONS

- Bending ability : Max O.D 28x1.5t
- Power Supply : 220V 50/60Hz
- Weight : 15 kg



EZY-BENDER MB42

APPLICATIONS

- Wide bending radius, Programmable bend angle, Easy movable by wheels

SPECIFICATIONS

- Assembly ability : Max O.D 1 in. (25 mm)
- Hand pump : 10000 psi (700 barg), 2 speed
- Weight : 6 kg



EZY-MAT I Pre-Assembly Machine

APPLICATIONS

- Assembly of Hy-Lok tube fittings and Bite type fittings
- Flaring of 37° SAE J514 flared fittings, Easy & quick assembly

SPECIFICATIONS

- Assembly ability : Max O.D 2 in. (42mm)
- Power supply : 220V 50/60Hz
- Weight : 30kg



EZY-MAT II Pre-Assembly Machine

APPLICATIONS

- Assembly of Hy-Lok tube fittings and Bite type fittings
- Flaring of 37° SAE J514 flared fittings, Easy & quick assembly

SPECIFICATIONS

- Assembly ability : Max O.D 2 in. (42mm)
- Power supply : 220V 50/60Hz
- Weight : 30kg



Oil & Gas

Type	User	Project Name	Clients
FPSO	BP	BP Q204 FPSO	HHI
	INPEX	Ichthys FPSO	DSME
	TEEKAY PETOROJARL	TEEKAY FPSO	SHI
	Eni-Norge	Goliat FPSO	HHI
		CLOV FPSO	
FPU	TOTAL	Pazflor FPSO	DSME
		USAN FPSO	HHI
		MOHO NORD FPU	HHI / HSHI
CPF	TOTAL	OFON Field Development Phase-2	HHI
	INPEX	Ichthys CPF	SHI
DRILLSHIP	ADMA-OPCO	Umm LuLu Package-1	NPCC
	ENSCO	ENSCO GF Topside	
	MAERSK	MAERSK Drillship #4	SHI
		MAERSK Drillship #1~2	
	ROWAN	ROWAN Drillship	HHI
	OCEAN RIG	Cardiff Drillship #5	SHI
	Diamond Offshore Drilling	Diamond Drillship	
	FRED OLSEN	FRED OLSEN DRILLSHIP	HHI
	NOBLE	Noble Drillship	
	PACIFIC DRILLING	PDC Drillship #5~6	
		Pride Drillship #5	
	Pride International Inc.	Pride Drillship #4	
		Pride Drillship #3	SHI
		Pride Drillship #2	
		QGOG Drillship #1~2	
	QUEIROZ Galvao Oleo E Gas S.A	Seadrill #4~5	
	Sea Drill		
	Vantage Drilling Company	Vantage Drillship	DSME
	ETESCO	ETESCO 0 Drillship	SHI
		Odebrecht Drillship Norbe X	
	Odebrecht Perfuracases Ltd	Odebrecht drillship #1	DSME
		Odebecht Drillship ODN #2	
		Cardiff Drillship #3~4	
	Cardiff Marine Inc.	Cardiff Drillship #1~2	SHI
	Deep Sea Metro	DSM-DRILLSHIP	HHI
	Pioneer Drilling Co(PDC)	PDC Drillship #4	
		PDC Drillship #3	SHI
		PDC Drillship #2	
		PDC Drillship #1	
	TPM		
	Petroserv SA	Petroserv Drillship TBN #1	DSME
	Schahin	Schahin #2	SHI
	Schahin	Schahin #1	SHI
	TMT	TMT Drillship #2	DSME
	Transocean Inc.	Transocean Drillship	HHI
	FRED OLSEN	FRED OLSEN SEMIRIG	HHI
DRILLING RIG		Songa offshore Cat.D Drill Semi-Rig #4	
	Songa Offshore	Songa offshore Cat.D Drill Semi-Rig #3	DSME
		Songa Offshore Cat.D Drill Semi-Rig #2	
		Songa offshore Cat.D Drill Semi-Rig	
	ADMA-OPCO	SARB Package 4	HDEC
	Diamond Offshore Drilling	DIAMOND SEMIRIG	HHI
	Petroserve SA	Petroserve GVA 7500 Semi Rig#2	DSME
PIPE LINE	LLC Gazflot	Gazflot Semi-Sub Drilling Rig #2	SHI
	GRUPO R	GRUPO R GVA 7500 Semi Rig #2	DSME
	ADMA-OPCO	ZAKUM Oil Lines Replacement Phase 1	NPCC
	Rasgas	Flow Assurance	HHI
	ZADCO	Upper Zakum 750	DSME
PLATFORM	Carigali Hess	Carigali BCP (Booster Compression)	HHI
	Chevron	Mafumeira Sul Fixed Platform	DSME
		BARZAN Gas Platform & Pipe line	
	Rasgas	BARZAN Gas Development	HHI
	TOTAL	Martin Linge Platform	SHI
	Daewoo International	SHWE	HHI
		South Pars #22,23,24 Offshore Facilities	SADRA
	NIOC	South Pars #20,21 Off-Shore	
		South Pars #17&18 Offshore Facilities	IOEC
		South Pars #14 Offshore Facilities	ISOICO

Oil & Gas

Type	User	Project Name	Clients
PLATFORM	NIOC	South Pars #12	IOEC
		South Pars #13 Offshore Facilities	SADRA
	ADGAS	IGD-Das Island PJT(Offoshre)	HHI
	Saudi Aramco	Karan Gas Field Development Project(Offshore)	J.Ray Mcdermott
		Aramco Manifa Platform	
	Burullus Gas Company	West Delta Deep Marine Concession Phase VII	ENPPI/Technip
	PTT EP	Bongkot Field Phase 4A	HHI
	Agency for Defense Development	K247 Submarine Underwater Launching Platform	DSME

Shipbuilding

Type	User	Project Name	Clients
LNG	Teekay LNG Partners	Teekay 173,400 CBM LNG Carrier	DSME
	BGT (Bonny Gas Transport)	BGT LNG Carrier(2076~2079)	SHI
	Maran Gas	Maran 155,900 CBM LNG Carrier (2288,2291/2/5/6)	DSME
	Cardiff Marine	CARDIFF 159800 CBM LNG CARRIER	
	Dynagas	Dynagas LNG (2556, 2557, 2558, 2565, 2580)	HHI
	AWILCO	AWILCO 155,900 CBM LNG Carrier (2289)	DSME
	Thenamaris	Thenamaris LNG (2045, 2046)	
	GOLAR LNG	GOLAR (2021~2024, 2026~2027, 2047~2048)	SHI
	GASLOG	GASLOG (1946,1947,2016,2017,2041~2044)	
	BGIP INC	Seismic Research Vessel	SKHI
OSV	Nordcapital Co	AHTS(Anchor Handling Tug Supply) Vessel 187	Rolls-Royce
	BP Amoco Shipping	93M Platform Supply Vessel	CIMC FAFFELES
	Tidewater marin INC	86m Anchor Handling Towing Supply Vessel	
	Blue Star Ferries Maritime	145M Fast Passenger Car Ferries(7509/7510)	
Ferry		Ro Ro Passenger Car Ferries CTN (7511)	DSME
RORO Ship	COTUNAV		
Warship	NAVY	ATIS-2	

Chemical & Petrochemical

User	Project Name	Clients
UZ-KOR GAS CHEMICAL LLC	UGCC GSP AND POLYMER	SECL
	Carbon black & Delayed Coker	
TAKREER	Green Diesel	GSEC
	Inter Refinery Pipeline-2	
	Ruwais Refinery Expansion - PKG2, 7	
	Ruwais Refinery Expansion - PKG4	Daewoo
	Ruwais Refinery Expansion - PKG3	SECL
	Group 3 Base Oil Production Facilities	HDEC
SAMSUNG TOTAL PETROCHEMICALS	No. 2 Aromatics Complex	SECL
Saudi Aramco	Yanbu Export Refinery #4	DAELIM
	Yanbu Export Refinery #3	
	Yanbu Export Refinery #2	
	Karan Utilities and Cogeneration	SKEC
	Manifa Gas Facilities	Petrofac
	Karan Gas Field Development	GSEC
	Ras Tanura DHT	HEC
Petron Corporation	Petron Bataan Refinery Master Plan 2	SECL
JG SUMMIT Petrochemical	JG Summit NCC	DAELIM
Honam Chemical	Yeosu Petro-Chemical P2	DAELIM
	HPCEM2	HDEC
GS Caltex	VGOFCC	SECL
	GS Caltex HOU No.3	GSEC
Petrotrin	Ultra Low Sulphur Diesel Unit	GSEC

Chemical & Petrochemical

User	Project Name	Clients
NSRP	NSRP Complex	JGCS
NIOC	South Pars #13, 22,23,24 Onshore Facilities	Petrokish
	South Pars #17, 18 Onshore Facilities	IPMI
	South Pars #15 & 16 Onshore Plant	Biffi
	South Pars #15 & 16 Onshore Plant	Petrokish
	South Pars #12 Onshore Facilities (EPC-2)	DAELIM
	South Pars #12 Onshore Facilities	NARGAN
	South Pars #6,7,8 Onshore Facilities	JITD-JV
SOCC	SOCC AA	
SAMCO / SAAC	SAMCO Acrylic Acid Complex	SECL
PETRONAS CARIGALI SDN BHD	SABAH OIL AND GAS TERMINAL(SOGT)	
Saudi Kayan	Saudi Kayan Petrochemical Complex PolyCarbonate Facilities	DAELIM
	Saudi Kayan Petrochemical Complex PP & PH Facilities	SECL
	Saudi Kayan PH(Phenolic)	Technicas Reunidas
	Saudi Kayan LDPE	DAELIM
Electricity State Commission	QUDUS / 3 Gas Turbines Power Plant	
Petronas Gas	Plant Rejuvenation and Revamp 2	HDEC
Nigerian Agip Oil Company	Ogbainbiri Flowstation Upgrading	DWEC
Opal	Opal DFCU & AU	SECL
KOC	New 30" Crude Transit Line (TL-4)	ABB
	Booster Station 132 (BS-132)	SKEC
	Building New Gathering Center GC-24	SECL
Kuwait Oil Co.	KOC PIPE LINE	HDEC
	KOC Crude Export Line New GC-16 Band	Combined Group Contracting CO
ICOFC/OEID	Khesht Oil Field Development	SADRA
SATOP	Jubail Export Refinery #3 Aromatic Units	SECL
ADGAS	IGD-Das Island	HHI
Ruwais Fertilizer Industries	Fertil -2 Ammonia Urea Complex	SECL
SK Innovation	H PROJECT	SKEC
HC Petrochem CO.	BTX	HHI
Harvest Operations Corp.	BLACKGOLD	GSEC
Turkmen Gas	Turkmenistan Gas Desulfurization Plant	HEC
S-Oil	S-Oil Onsan Refinery Expansion	SECL
	S-Oil Alkylation	HEC
Sonatrach	Arzew Refinery Renabilitation & Adaptation	Hanwha /HEC
	Skikda Refinery Renabilitation& Adaptation	
Terminal KMS DE GNL	Mansanillo LNG Terminal	SECL
BAPCO/ Neste Oil/Nogaholding	Leste Lube Oil	
Gazprom	Shell Salym Petroleum Development	Shell S.P.D
Hyundai Oilbank	NEW FBC BOILER #8	HHI
	HDO #2 HOU	HDEC/DAELIM
GASCO	Habshan-5 Utilities & Offsites	HDEC
NIGC	Gas Jubail Phase-VIII	
SK ENERGY	FCC Denitrification	
	SDA	SECL
ADCO	SK Energy BTX Revamp	
	Bab Gas Compression	SKEC
PV TEX.,JSC	Dinh Vu Polyester Plant	HEC
Petrovietnam	Petrovietnam Polypropylene Plant	HDEC
Grupa Lotos	Butane Deasphalting SDA/Rose	
	PKRT	Technip Italy
Thai Polypropylene Co., Ltd.	THPP Polypropylene #3	SKEC
PTT Public Co.	The 6th Gas Separation Plant(GSP-6)	
	Ethane Separation Plant	SECL
PEQUIVEN	PEQUIVEN Moron Fertilizer Complex	Toyo Eng.
Arabian Amines Co.	AAC Ethylene Amines Plant	HEC
Sibur-Khimprom ZAO	220KTY ETHYL. BENZENE PLANT	Toyo Eng. Korea
Saudi Arabia Mining Co.	Ma'aden Ammonia	
BOROUGE	BOROUGE #2 OCU	
MOC	MOC Cracker	SECL
PETROTRIN	PETROTRIN NHT & CCR Platfrmer Complex	
Belleli Energy	Chinavorskoe Oil & Gas Condensate Field	Russia Exterrann
HMC Polymers Co., Ltd.	HMC PP Line No. 3	GSEC

Power Plant

Type	User	Project Name	Clients
Thermal Power Plant	KOWEPO	Taeon IGCC PJT (380MW)	
	KOMIPO	Sin-Boryoeng #1,2 PJT	Doosan
	SEC	Jeddah South Thermal Power Plant Stage-1	HHI
		Rabigh 2	Doosan
	NTPC	Kudgi Super Thermal Power Plant	Doosan Power System India
	KOSEP	Youngheung Thermal #5,6	Doosan GS E&C
		Yeosu Thermal #2	
	EVN	Mong Duong 2 Thermal Power Plant	Doosan
	EWP	Dangjin Thermal #9&10	DAELIM Hitachi
	GULF JP	THAILAND Small Power Producer GULF JP	TOYOTA
	Gimcheon Energy	Gimcheon Energy Project	
	ENERJISA	Tufanbeyli Thermal Power	SK E&C
	EDEPC	Ain Sokhna	Doosan
	GECOL	Al Khailj 4x350MW Power Plant	HDEC
	MPX BRAZIL	PORTO DO PECEM(720MW)	MABE(Marie Tecnimont, EFACEC)
	KEPCO SPC, Salcon Power Plant	CEBU Power Plant	
	Cirebon Electric Power	Cirebon TPP	Doosan
	EGAT	GHECO-ONE Coal Based Power Plant	
Nuclear Power Plant	AES Gener + BHP Billiton	Campiche Coal Fired Power Plant	
	KOSPO	Yeongwol Combined Cycle Thermal Power Plant	Doosan/HEC
	ENEC	Barakah Nuclear Power Plant Units #3, 4	KEPCO E&C
		Barakah Nuclear Power Plant Units #1, 2	
		Sin-Hanul Nuclear Power Plant #1, 2	KEPCO E&C
		Sin-Wolseong Nuclear Power Plant #1, 2	Doosan / KHNP
		Yonggwang Nuclear Power Plant #3, 4	KHNP
		Yonggwang Nuclear Power Plant #1, 2	Doosan
	GE Energy	GE Energy	
	Bechtel	River Protection Project	Northwest Process Control
Desalination Plant	SWCC	Yanbu Phase II, III	
		Ras Al Khair	
		Jeddah Swro-3	Doosan
		Ras Az Zawr	
	MARAFIQ	Yanbu MED	
Combined Cycle Power Plant	MEW	Marafiq STG #5,6	Hanwha E&C
	SEC	Az-Zour North IWPP Phase 1	HHI
		Riyadh PP12 Project	ALSTOM
		Riyadh PP10 Project	NAIZAK
	Dongducheon Dream Power	Qurayyah Combined Cycle Power Plant	Doosan
		Dongducheon LNG Combined Thermal Power	IPACK
	EMAL	EMAL PHASE 2 CCPP PROJECT	Samsung C&T
	Pocheon Power	Pocheon LNG Combined Thermal Power	IPACK
	KOMIPO	Sejong CCPP Project	
	EGCB	New Haripur Power Plant	
	SK	Osung HRSG	
	SIEMENS	Nhon Trach HRSG	Doosan
	OPWP	TOUL HRSG	
		Sohar 2 & Barka 3	
	IPDC	Isfahan 2 Combined Cycle Power Plant	
		Parehsar Combined Cycle Power Plant	
		Shirvan 3	MAPNA BOILER
		ABADAN 2	
	Wood Group	Genaveh HRSG	Doosan
		Wood Group Gas Turbine Service	HY-LOK D
		Gwanggyo Combined Cycle Power Plant	DAELIM
		Yeosoo CCGT Plant	HHI
	Hyundai Energy	Yazd-B.O.O. Combined Cycle Power Plant	MASBA
	Yazd Power Generation Company	Jandar Combined Cycle Power Plant	MAPNA BOILER
	MAPNA	Riyadh PP11 IPP Project	HHI
	DEC	Peru CCGT	Jeil
	Kallpa Generation S.A	SABIYA CCGT Power Station	
	MEW	Al Dur IWPP	HHI
	MOF		
	Korea District Heating Corp.	Paju Combined Heat & Power plant	KEL ENG
	Maaden Phosphate	Maaden Phosphate Project	Hanwha
	Duke Energy Corp.	Edwardsport HRSG	
	TATA Power	Mundra Ultra Mega Power Plant	Doosan
	GECOL	Benghazi Combine Cycle Power Plant	
		Misurata Combine Cycle Power Plant	DAEWOO
	Qatar Petroleum	Qatalum Combined Cycle Power Plant	Doosan

GLOBAL NETWORK

Hy-Lok, based on global competence, pursue global management in every corner of the world together with local partners. We have built international distribution network to achieve the goal of prompt delivery and the best service

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Great companies keep a constant eye on the future

VISION FOR THE FUTURE

Hy-Lok seeks the top enterprise through the continuous improvement.

Hy-Lok pursues a true partnership with our customers and helps to achieve the goals from their point of view.

Hy-Lok perseveres in our efforts based on Honest and Trust built on 40 years with our customers.