

# PRODUCTS GUIDE

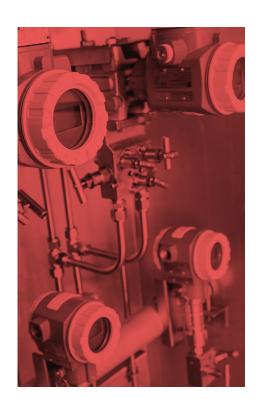
Catalog No. H-PG Oct. 2016 Rev.01



# Global Leader of Fluid & Control System Hy-Lok Corporation









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# **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
- Instrument Thread & Weld Fitting
- Pipe Fitting (ASME B 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

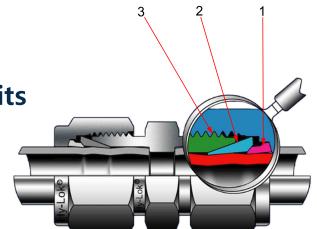
# **Tube Fittings**

In 1977, Hy-Lok firmly established its leadership position and took the industry by storm, introducing the Hy-Lok® Tube Fittings.

To this day the Hy-Lok design features offer unique advantages and benefits to users that are unmatched in the industry, especially for severe service applications.

**Hy-Lok**<sup>®</sup> Key Design Benefits

- 1. The Back Ferrule provides a strong mechanical and anti-vibration hold on the tube.
- 2. Pressure Seal by Front Ferrule on the Tube and Body
- 3. Fine Pitch, Silver Plated Nut, Threads ensure no galling.



# **Material Supported**

Materials supported are 316SS, MONEL®, INCONEL® 625, INCOLOY® 825, HASTELLOY® C, Titanium, Duplex, Super Duplex, 6MO and Brass. Available in both Metric & Imperial sizes. Available in both Metric and Imperial sizes 1/16" to 2" in multiple configurations.



Catalog No. H-200TF



# **Hy-Lok Tube Fitting**

#### **Applications**

Instrumentation, High Pressure Service, General Service

#### Size Range

From 1/16" to 2" (2mm to 38mm)

#### **Features**

Compression Double Ferrule Design Vibration Resistance Complete Interchangeability Gaugeability Excellent Make Up and Re-make Life CNG / NGV available ASTM F1387-12 (2012)

Catalog No. H-230TF



# **Bite Type Tube Fitting** (DIN 2353)

#### **Applications**

Hydraulic, Pneumatic, Lubrication

#### Size Range

From 6mm to 42mm

#### **Features**

Bite Type Single Ferrule Design According to DIN 2353 / ISO 8434-1 Usable Hose Connection LL Series - Very Light (6LL, 8LL, 10LL, 12LL) L Series - Light (6L, 8L, 10L, 12L, 15L, 18L, 22L, 28L, 35L, 42L) S Series - Heavy (6S, 8S, 10S, 12S, 14S, 16S, 20S, 25S, 30S, 38S)

Catalog No. H-240FF



# 37° Flared Tube Fitting (SAE J514)

## **Applications**

Hydraulic, Pneumatic

#### Size Range

From 1/4" to 1 1/2" (6mm to 38mm)

#### Features

37° Angle and Seat Design According to SAE J514 / ISO 8434-2 Usable with either Metric or Inch Tube Vibration Resistance Available O-ring Seal Usable Hose Connection

Catalog No. H-260CF



# OF (O-ring Face) Seal Fitting

# Applications

High Pressure Service, Hydraulic System, Gas Process

#### Size Range

From 1/4" to 1" (6mm to 25mm)

#### Features

O-ring Face Seal Design According to SAE J1453 / ISO 8434-3 Zero Clearance provides Easy Maintenance Vibration Resistance High Pressure



Catalog No. H-100HP



# **High Pressure Fitting**

#### **Applications**

Oil & Gas Process, Injection System

#### Size Range

From 1/4" to 1"

#### **Features**

Coned and Threaded Connection Design Repeated Assembly & Disassembly Increased Pressure Handling Capability Sour Gas Service Available Medium Pressure: 20,000 psi High Pressure: 60,000 psi

Catalog No. H-310PF



# Pipe Fitting (ASME B16.11)

#### **Applications**

Power Plant, Chemical, General Service

#### Features

Forged Material: A105, A182 F316 Class 2000, 3000, 6000, 9000 According to ASME B16.11 / MSS-SP79, 83, 95

Screwed: Class 2000, 3000, 6000 Socket Weld: Class 3000, 6000, 9000

Catalog No. H-300PF



# **Instrument Thread & Weld Fitting**

## **Applications**

Instrumentation, General Service

#### Size Range

From 1/8" to 2"

#### **Features**

NPT and ISO / BSP Pipe Thread End Tube Socket Weld According to ASME B31.3 SS316, Brass, Carbon Steel

# **Instrument Valves**

Types of valves available are Ball, Needle, Check, Relief, Bleed, Toggle, Plug, Metering, Excess Flow, Manifolds, Gauge and DBB in sizes from 1/16" to 1".

A variety of handle and elastomer options are offered. Available connections come in either Metric or Imperial sizes, with threaded or tube fitting ends. Available in multiple configurations.



# **Valve Types Including**

- Trunnion
- Full Port
- Panel Mount
- High Cycle
- Low Profile
- Zero Leak
- Bi-Directional Multi-Directional
- 3-Piece Bolted
- Fire Safe
- Industrial
- Forged Body
- Bar Stock



# **Material Supported**

Materials supported are 316SS, MONEL®, INCONEL® 625, INCOLOY® 825, HASTELLOY® C, Titanium, Duplex, Super Duplex, 6MO and Brass. Available in both Metric & Imperial sizes.

# **Key Design Benefits Include**

- Innovative Leak Proof Design
- Low Torque Operation
- Highest Quality
- High Cycle Options for Extended Service Life
- · Energized Seals minimize Fugitive Emission.











Catalog No. H-100NV

# **Needle Valves**



# **NV Series Integral Bonnet Needle Valves**

#### **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 gasous

Catalog No. H-102NV & H-104NV



# GB & GH Series Union Bonnet Needle Valves

#### **Applications**

Severe service, High pressure and temperature

#### **Features**

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

Catalog No. H-103NV



# SVH 1, SVH 2 Series High Pressure Needle Valves

#### **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

Catalog No. H-RP100



# RP Series Rising Plug Valves

#### **Applications**

Sour gas service, Oil & Gas process

#### Features

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

Valve Group		Maximum Operating Pressure @100°F(38°C)	Temperature		CV	Body Material			Actuation	Seat Seal Material					End Connection	Catalog
			Min	Max	Max	Brass	SS	Alloy	Manual	PTFE	PEEK	PCTFE	РОМ	Grafoil	Size (Max.)	catalog
	NV Series	6000 psi 420 bar	-65°F -54°C	450°F 232°C	1.80	0	0	0	0	0		0			3/4 in 20mm	H-100NV
	GB Series	6000 psi 420 bar	-65°F -54°C	1200°F 648°C	2.20		0	0	0	0		0		0	1 in 25mm	H-102NV
Needle	GH Series	10000 psi 690 bar	-65°F -54°C	1200°F 648°C	0.86		0	0	0	0		0		0	1/2 in	H-104NV
Valve	SVH 1 Series	10000 psi 690 bar	-65°F -54°C	1200°F 648°C	0.52		0	0	0	0				0	1/2 in	H-103NV
	SVH 2 Series	6000 psi 420 bar	-65°F -54°C	1200°F 648°C	0.52		0	0	0	0				0	1/2 in 12mm	H-103NV
	RP Series	6000 psi 420 bar	-20°F -29°C	400°F 204°C	6.30		0	0	0		0		0		3/4 in	H-RP100

# **Ball Valves**



# 102 Series High Pressure Ball Valves

#### 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 Low operation torque CNG / NGV Available

Catalog No. H-110BV & H-110BPTV

Catalog No. H-102BV



# 110 & 110P Series Low Pressure Ball Valves

#### **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)

Catalog No. H-112BV



# 112 Series Capsuled Ball Valves

#### **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

Catalog No. H-230TF



# 115 Series Ball Valve

# **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

Catalog No. H-SOBV



# SO Series Swing Out Ball Valve

# **Applications**

Instrumentation, Oil & Gas process

#### **Features**

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" full flow design



Catalog No. H-105BV

# **Ball Valves**



# 105 Series High Pressure Ball Valves

#### Applications

High pressure service, Oil & Gas process

#### **Features**

2-way shut off, 3-way switching designs Fire safety design Available locking device NACE MR-01-75 compliant materials available CNG / NGV Available

Catalog No. H-100TBV



# T Series Trunnion Ball Valves

#### **Applications**

High pressure service

#### 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(690bar) rating with Peek Seat CNG / NGV Available

Catalog No. H-P100



# P Series Plug Valves

# **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

Valve	Model	Maximum Operating Pressure @100°F(38°C)	Temperature CV			/ Body Material				Actu	ation	Seat Seal Material							End Connection	Catalog
Group	Series		Min	Max	Max	Brass	C.S	SS	Alloy	Manual	Pneumatic	PTFE	PEEK	PCTFE	PVDF	РОМ	FKM	NBR	Size (Max.)	catalog
	102 Series	6000 psi 420 bar	-65°F -54°C	450°F 232℃	6.42			0	0	0	0	0	0	0	0				3/4 in 20mm	H-102BV
	110 Series	1000 psi 70 bar	-4°F -20°C	450°F 232℃	40	0		0	0	0	0	0	0						2 in 25mm	H-110BV
	112 Series	3000 psi 210 bar	50°F 10°C	150°F 65°C	4.6	0		0	0	0		0							3/4 in 20mm	H-112BV
Ball	115 Series	7200 psi 500 bar	-4°F -20°C	210°F 100℃	230		0	0		0						0		0	1 1/2 in 42mm	H-230TF
Valve	SO Series	3000 psi 210 bar	-20°F -28°C	450°F 232℃	40			0	0	0	0	0	0						1 in 25mm	H-SOBV
	105 Series	10000 psi 690 bar	-65°F -54℃	400°F 204°C	30			0	0	0	0	0	0	0	0		0		1 in 25mm	H-105BV
	T Series	10000 psi 690 bar	0°F -17℃	450°F 232℃	1.6			0	0	0	0	0	0	0			0		1/2 in 12mm	H-100TBV
	P Series	3000 psi 210 bar	-10°F -23°C	150°F 65°C	5.7	0		0	0	0							0		1/2 in 12mm	H-P100

# Instrument Manifold & Gauge / Root Valves, Double Block & Bleed Valves

A complete line of manifolds have been designed to provide the safest possible connection and mounting of instruments. We offer a variety of precision engineered valves and 2,3 and 5-Valve manifolds, gauge valves and manifolds in direct and remote mount styles with vent configurations to meet most flow, pressure and level measurement application requirements, including integral / Hy-Lok® Tube Fitting Connections, eliminating the requirement to add male connections.



# **Features Include**

- Full 316 / 316L Dual Certified Stainless Steel Components
- Full Compliance of NACE MR-01-75 Specifications
- Laser Engraved Identification.
- Hy-Lok® Close Tolerance NPT Threads to ensure maximum engagement with mating
- threaded components
- Available with integral / Hy-Lok<sup>®</sup> Tube Fitting Connections on certain models.
- NORSOK M-650 approved mill available
- Optional anti-tamper and locking handles and round wheel handles available.
- · Optional tube adaptors available

# **Material Supported**

Materials supported are 316SS, MONEL®, INCONEL® 625, INCOLOY® 825, HASTELLOY® C, Titanium, Duplex,

Super Duplex, 6MO and Brass. Available in both Metric & Imperial sizes. Available connections come in either Metric or Imperial sizes 1/4", with threaded or tube fitting ends.

Available in multiple configurations.





Catalog No H-120MV



# M Series (2,3,5 Valves) Instrument Manifold / Gauge / Root Valves

#### **Applications**

Pressure & Flow Measurement

#### Features

2-Valve : Block & Bleed Valve Manifold 3-Valve : 2-Block & Equalize Valve Manifold

5-Valve: 2-Block & 2-Bleed & Equalize Valve Manifold Max. Operating Pressure @ 100°F (38°C): 6000 psi (420 bar) Temperature Range: -65°F (-54°C) to 1200°F (648°C)

Catalog No. H-100PIV



# **Double Block & Bleed Valves (DBB Valves)**

#### **Applications**

Primary Isolation in Oil & Gas Process

#### Features

Compact Double Block & Bleed Valve Saving Installation Cost Improving Safety through a reduction in Leak Points Configurable option include Single Block, Double Block and Double Block & Bleed ASME Class 150, 300, 600, 900, 1500, 2500

Catalog No. H-100PIV



#### Monoflanges

#### **Applications**

Primary Isolation, Pressure Measurement

## **Features**

Compact Double Block & Bleed Valve Saving Installation Cost Improving Safety through a reduction in Leak Points Configurable option include Single Block, Double Block and Double Block & Bleed ASME Class 150, 300, 600, 900, 1500, 2500 Available Vertical or Horizontal Installation

# **Check Valves**

Catalog No. H-700T



## 700 Series Check Valves

#### **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

Catalog No. H-700T



# 700H Series High Pressure Compact Check Valves

#### **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

# **Relief Valves**

Catalog No. H-RV100



## RV1, RV2 Series Relief Valves

# Applications

Prevent Overpressure

#### **Features**

Angle pattern External relief setting Provide large flows

#### RV1

Adjustable pressure setting
One spring, Cracking pressure range 10~250psi
Working pressure up to 300psi(21bar)
Color coded springs and labels indicate spring cracking range

## RV2

Adjustable pressure setting Seven springs, Cracking pressure range 225-6000psi Working pressure up to 6000psi(420bar) Preset from factory and comes with standard springs

Valve Group	Model Series	Maximum Operating Pressure @100°F(38°C)	Temperature		cv	Cracking Pressure	KOOV WATERIAL			Actuation	n Seat / Seal Mate			erial	End Connection	Catalog
			Min	Max	Max	Max	Brass	SS	Alloy	Manual	PTFE	FKM	NBR	FFKM	Size (Max.)	Catalog
Check	700 Series	3000 psi 210 bar	-10°F -23°C	375°F 191℃	8	100psi 6.9bar	0	0	0	0	0	0	0	0	3/4 in 20mm	H-700T
Valve	700 H Series	6000 psi 420 bar	-10°F -23°C	400°F 204°C	4.7	25 psi 1.7 bar		0	0	0		0	0	0	1/2 in 12mm	H-700T
Relief Valve	RV 1 Series	300 psi 21 bar	-10°F -23°C	400°F 204°C	0.6	250psi 17.2bar		0	0	0		0	0	0	1/2 in 12mm	H-RV100
	RV 2 Series	6000 psi 420 bar	-10°F -23°C	400°F 204°C	0.4	6000psi 413bar		0	0	0		0	0	0	1/2 in 12mm	H-RV100



Catalog No. H-F100

# **Filters**



# FT Series Micron Tee Filters

## **Applications**

Particle trapping, Sampling system

#### **Features**

Tee pattern

Easy replacement of filter elements

Optional by pass port: Provided purging and sampling, Self-cleaning

Replaceable sintered 316 stainless steel filter element

Catalog No. H-F200



# FI Series Micron In-line Filters

## **Applications**

Particle trapping

#### Features

Compact in line pattern

Replaceable sintered 316 stainless steel filter elements

# **Bleed & Purge Valves**

Catalog No. H-100BPV



# **Bleed & Purge Valves**

## **Applications**

Bleeding or purging of liquids and gaseous

#### Features

Compact design

Ensure safe relief of system pressure

Valve vent line pressure to atmosphere

	Valve	Model	Maximum Operating	Tempe	rature	CV	Cracking Pressure	В	ody N	1ateri	al	Actuation	Sea	t / Sea	al Mat	erial	End Connection	Catalog  in H-F100
(	Group	Series	Pressure @100°F(38°C)	Min	Max	Max	Max	Brass	C.S	SS	Alloy	Manual	PTFE	NBR	FFKM	Grafoil	Size	
	Filter	FT Series	6000 psi 420 bar	-60°F -51℃	400°F 204°C	0.42		0		0	0		0	0	0	0	1/2 in 12mm	H-F100
	riitei	FI Series	3000 psi 210 bar	-20°F -28°C	900°F 482°C	Refer	to Catalog	0		0	0						1/2 in 12mm	H-F200
	Bleed & urge Valve	Bleed & Purge Valve	6000 psi 420 bar	-65°F -54℃	850°F 454°C	3.1			0	0	0	0					1/2 in	H-100BPV

# **Cryogenic Valves**

Catalog No. H-CRYO100



# Cryogenic Needle & Ball Valves

#### **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
Needle Valve (ASME Class 150)
Ball Valve (ASME Class 150 to 900)

# **Manual Ball Valves**

Catalog No. H-116BV



# 116 Series SAE Flanged Ball Valves

# **Applications**

Hydraulic system, Fire fighting system

# Features

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

Catalog No. H-116BV



# 118 Series ANSI Flanged Ball Valves

# **Applications**

Hydraulic system, Oil & Gas process

#### Features

Fire safety designed to API 607, BS 6755 Part 2 Available Forging & Casting material ASME Class 150, 300, 600, 900, 1500, 2500



# **Flange**

Catalog No. H-2002SF



## Flanges 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

# Flange Adapter



#### Flange Adapter

#### **Applications**

Process & Instrumentation Connection

#### **Features**

Compact Installation
Safe interface between pipe flanges and instrument fittings
Threadless, Weldless Transition from pipe flanges to an instrument tube fittings
One-piece integral body / Two-piece compact split body
Connected with Hy-Lok tube fitting end connection up to 25 mm and 1 inch
ASME Class 150, 300, 600, 1500, 2500

# **Tube**



#### Tubes

Applications TP316 / 316L ASTM A213 ASTM A269

# **Package Solution**



#### **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



# **Instrumentation Package Solution**

#### **Applications**

Instrumentation, Power plants

#### Features

Enclosure with protection box Pickled Stainless steel Painted Carbon steel Strong weatherproof barrier(NEMA-4X) Fire retardant GRP 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.





#### **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 - **9** 250 x 32 x 2t

·Weiaht : 70 kg

#### **EZY-GRAT EG642**



**Applications** Enable to clean the inner & outer tube quickly

Long tool life can be guaranteed, Easy change to inner and outer tool

#### Specifications

· Deburring ability: Max O.D 2in. (42 mm) · 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**

· Bending ability: Max O.D 42x3.5t · Power Supply : 220V 50/60Hz ·Weight : 23 kg

# **EZY-MAT I Pre-Assembly Machine**



#### **Applications**

Assembly of Hy-Lok tube fittings and Bite type fittings Reliable ferrule pre-sets to tubing, Safe and reproducible assembly

#### **Specifications**

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

·Weight :6 kg

# **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. (42 mm) : 220V 50/60Hz · Power supply ·Weight : 30 kg

# **Worldwide Network Service**

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