

## **HOSE LINES FOR INDUSTRY**































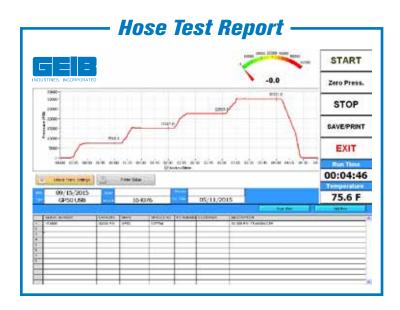
## **Capabilities**

## EXPERIENCE THAT GIVES YOU THE EDGE

Geib Industries has been in the business of helping our customers solve their toughest hose requirements for over 70 years. We are the leader in critical hose and fitting products to keep your business flowing. We are committed to working with our customers to fabricate the right product for their applications, producing products that meet their quality expectations and servicing them throughout the process.

## **QUALITY, SERVICE AND FLEXIBILITY ARE #1**

Geib Industries' flexibility enables us to facilitate the change required to do business in the fast paced oil refinery marketplace. We are a service-oriented fabricator focused on quality assemblies for all our customer's hose assembly and component needs. This has been and always will be our focus and commitment to our customers. We pride ourselves in the ability to create and adjust new and innovative programs for our customers, helping them succeed while others fail!



# FULL SERVICE HOSE ASSEMBLY



# **CUSTOM METAL HOSE FABRICATION**



# HOSE TESTING & CERTIFICATION



## **HOSE SAFETY PROGRAM**



## DEDICATED INVENTORY FOR TURN AROUNDS



# FIELD ENGINEERING & EVALUATION SERVICE



## **TECHNICAL SUPPORT**



CUSTOM TAGGING, KITTING, & BARCODING



## **BIN STOCK SOLUTIONS**



## Our Mission is Simple: To be a leader in the hose and fittings industry.

We will achieve this by providing quality products, exceptional service and a dedicated team serving you, our valued customer. We pledge to continue to take on the challenges of preserving this philosophy, by being a unique and creative company, dedicated to quality, service and the betterment of our customers!



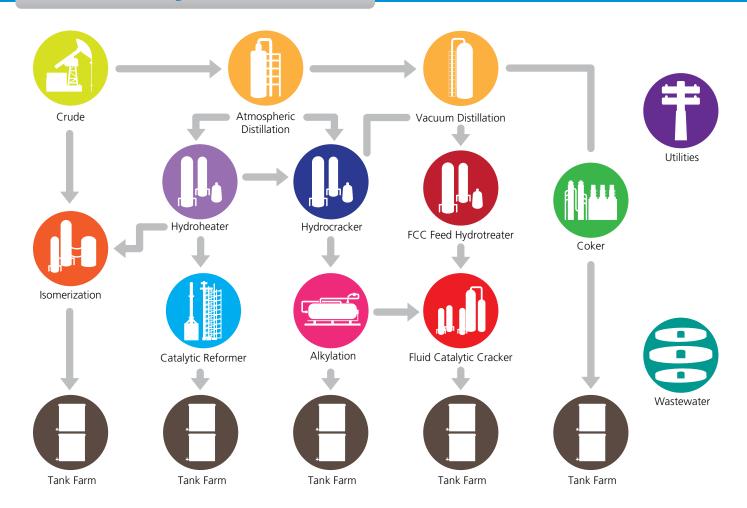








## Refinery Overview



## **Hose Selection**

Refinery Unit	Steam Hose	Hydrocarbon Drain Hose	Nitrogen Hose	Chemical Hose	Air Hose	Water Hose	Decoking/Rotary
Atmospheric Distillation	1						
Vacuum Distillation							
Hydrocracker							
Hydrotreater							
Coker							
Alkylation							
Isomerization							
FCC Feed Hydrotreater							
Fluid Catalytic Cracker							
Catalytic Reformer							
Tank Farm							
Wastwater							
Utilities							







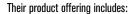






## **Penflex Corrugated Metal Hose**

Penflex is a leading manufacturer of corrugated metal hose and braid products. Founded in 1902, Penflex Corporation has been a pioneer from the very beginning and continues today to be a leader in the design, and manufacture of flexible metal hose. Penflex hoses are known for their durability and superior resistance to corrosion. Used in more than 15 vertical markets, by hundreds of companies world-wide.



- · Corrugated Metal Hose
- Series: P3, P4,700, 800, 900, 1400, 400
- Interlocked Metal Hose
- M100 Unique pressure capable robust interlocked hose
- Conveyor Hose
- Exhaust Hose
- . Wire & Synthetic Braids
- Metal Bellows Expansion Joints

#### **Construction:**

Annular / Standard Pitch / Compressed Pitch

#### **Available Materials:**

304SS, 321SS, 316SS, Monel, Hastelloy, Inconel, Bronze

Geib understands that unique applications require unique solutions.

By partnering with Penflex we are able to maintain our commitment to manufacturing the highest quality products that meet the demands of the petrochemical & refinery markets.

















## **Decoking/Rotary Hose**







## **High Pressure Decoking Hose**



Coke is an important by-product in oil refining. It is often stored in silos until it can be loaded into railroad cars. The coke hardens after being placed in the silos. Decoking hose attached to a drill stem is specially designed to unload coke from the silo using warm, high-pressure water. Flanges are butt-welded to built-in steel couplings which are permanently bonded to the hose. Swivel flange allows for easier installation of the hose without disengaging the flange bolting.

#### **Construction:**

**Tube:** Black Type C3 Modified Nitrile synthetic rubber. Specially compounded for rugged conditions, handling abrasion and oil corrosion.

**Reinforcement:** Multiple layers of polyester cord over tube. Multiple layers of "close wound", high tensile steel cables, with one layer of adhesion fabric placed between cable layers. Multiple layers of reinforcement under cover.

**Cover:** Type C4 (Modified Nitrile). Black. Specially compounded cover is resistant to abrasion, corrosion, cutting, gouging, oil and weather.

## **Design Factor:**

Working Pressure: 5,000 psi Test Pressure: 10,000 psi Burst Pressure: 12,500 psi

#### **Operating Temperature:**

-4°F to +180°F (-20°C to +82°C) continuous service.

### **Certification/Standards:**

API (American Petroleum Institute) Spec 7K.
Coupling/Material Traceability ISO 14693
Letter of Conformance and Test Certificates available upon request
3rd Party Witness Test - ABS/CDS Type Approval

#### **Optional:**

Accessories such as SAFETY CLAMPS, HOSE LIFT EYE & COLLAR CLAMP and STAINLESS STEEL ARMOR are available.

#### Type of Couplings:

Swaged – API male line pipe threads standard. Manufacturer recommends Butt-welded couplings. Couplings can be supplied with your choice of end fittings.

NOTE: FIELD WELDING OF FITTINGS TO COUPLING IS NOT RECOMMENDED.

## Size Range:

2.5", 3", 3.5", 4", 5"













## **Eaton® CHEMCAT™ Petrochemical H0523**



Part No.		Hose I.D		Hose	0.D.		perating ssure		rst sure		mum Radius	Vac	uum	We	ight	Len	gth
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	in/Hg	kg/m	lbs/ft	mtr	ft
H052312XX-100	19	19,0	0.75	30,6	1.2	20,7	300	83	1200	101,6	4	94,8	28	0,46	0.31	30,5	100
H052316XX-100	25	25,4	1	38,9	1.53	20,7	300	83	1200	139,7	5.5	94,8	28	0,82	0.55	30,5	100
H052320XX-100	31	31,8	1.25	47,8	1.88	20,7	300	83	1200	152,4	6	94,8	28	1,00	0.67	30,5	100
H052324XX-100	38	38,1	1.5	54,1	2.13	20,7	300	83	1200	190,5	7.5	94,8	28	1,33	0.89	30,5	100
H052332XX-100	51	50,8	2	66,8	2.63	20,7	300	83	1200	203,2	8	94,8	28	1,74	1.16	30,5	100
H052340XX-100	60	63,5	2.5	79,5	3.13	20,7	300	83	1200	203,2	8	94,8	28	2,13	1.42	30,5	100
H052348XX-100	80	76,2	3	92,2	3.63	17,2	250	70	1000	228,6	9	94,8	28	2,52	1.68	30,5	100
H052364XX-100	102	101,6	4	118,6	4.67	12,1	175	48	700	381,0	15	94,8	28	3,39	2.26	30,5	100

<sup>\*</sup> Additional lengths available on select items \*\* XX notes color; GN for green, PR for purple

#### **Construction:**

**Tube:** UHMW-PE, FDA-approved material **Reinforcement:** 2-ply fiber and dual helical wires

Cover: EPDM

**Operating Temperature:** 

-40°C to +121°C (-40°F to +250°F)

WARNING: Intermittent

## **Application:**

- For transfer of acids, chemicals, solvents, and petroleum products
- · Food transfer

## Markets:

- Chemical petroleum industry
- · In-plant transfers
- Tank truck
- Paper/pulp industry
- · Bulk hauling
- · Ship building
- · Forest products

## **Type of Couplings:**

- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminum, brass etc.) and attachment procedure with crimp specifications.

## Eaton® ARMORCAT™ Petrochemical H0554



Part No.		Hose I.D.		Hose	0.D.		erating sure		irst sure		mum Radius	Vac	uum	We	ight	Len	gth
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	in/Hg	kg/m	lbs/ft	mtr	ft
H055416	25	25,4	1	38,7	1.52	35,0	500	138	2000	152,4	6	94,8	28	0,82	0.55	15,2	50
H055416-150	25	25,4	1	38,7	1.52	35,0	500	138	2000	152,4	6	94,8	28	0,82	0.55	45,7	150
H055424-150	38	38,1	1.5	50,0	1.97	35,0	500	138	2000	203,2	8	94,8	28	1,44	0.97	45,7	150
H055432	51	50,8	2	65,9	2.59	35,0	500	138	2000	254,0	14	94,8	28	2,31	1.55	15,2	50
H055432-100	51	50,8	2	65,9	2.59	35,0	500	138	2000	254,0	14	94,8	28	2,31	1.55	30,5	100
H055448	80	76,2	3	95,3	3.75	35,0	500	138	2000	558,8	22	94,8	28	3,44	2.31	15,2	50
H055448-150	80	76,2	3	95,3	3.75	35,0	500	138	2000	558,8	22	94,8	28	3,44	2.31	45,7	150
H055464-150	102	101,6	4	121,2	4.77	35,0	500	138	2000	558,8	22	94,8	28	6,28	4.22	45,7	150

#### **Construction:**

**Tube:** UHMW-PE, FDA-approved material **Reinforcement:** 2-wire braid, dual stainless steel anti-static wire, 3" and 4" helical wire

Cover: EPDM

### **Operating Temperature:**

-40°C to +121°C (-40°F to +250°F)

WARNING: Intermittent

## **Application:**

- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

#### Markets:

- · Chemical petroleum industry
- · In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

## **Type of Couplings:**

- · Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminum, brass etc.) and attachment procedure with crimp specifications.



















Part No.	Hose	: I.D.	Hose	0.D.		perating ssure		mum Radius	Vac	uum	We	ight	Len	gth
	mm	in	mm	in	bar	psi	mm	in	kPa	in/Hg	kg/m	lbs/ft	mtr	ft
4700CU-07500-00	19,1	0.75	30,5	1.2	17,0	250	88,9	3.5	98,2	29	0,86	0.58	30,5	100
4700CU-01000-00	25,4	1	39,4	1.55	17,0	250	101,6	4	98,2	29	0,94	0.63	30,5	100
4700CU-01250-00	31,8	1.25	45,7	1.8	17,0	250	114,3	4.5	98,2	29	1,19	0.8	30,5	100
4700CU-01500-00	38,1	1.5	52,1	2.05	17,0	250	127,0	5	98,2	29	1,58	1.06	30,5	100
4700CU-02000-00	50,8	2	65,0	2.56	17,0	250	203,2	8	98,2	29	1,98	1.33	30,5	100
4700CU-02500-00	63,5	2.5	78,2	3.08	13,0	200	254,0	10	98,2	29	2,65	1.78	30,5	100
4700CU-03000-00	76,2	3	91,7	3.61	13,0	200	406,4	16	98,2	29	3,15	2.12	30,5	100
4700CU-04000-00	101,6	4	118,1	4.65	13,0	200	609,6	24	98,2	29	4,21	2.83	30,5	100
4700CU-06000-00	152,4	6	179,6	7.07	13,0	200	762,0	30	98,2	29	7,37	4.95	30,5	100

Non-stock orders - (other color hose covers: blue, black, purple, yellow, white, gray) are available and require a 400ft minimum order per I.D.

#### **Construction:**

**Tube:** Clear Ultra High Molecular Weight polyethylene. **Reinforcement:** Multiple plies of high tensile textile with dual helix

**Cover:** Green abrasion resistant green EPDM (Available in blue, yellow black and grey, white - with 400ft order)

#### **Operating Temperature:**

up to -40°F (-40°C) to +250°F (+121°C). Consult chemical resistant chart. Not for steam service. Can be open end steam cleaned

## **UHMW Chemical Suction & Discharge Hose**

A lightweight flexible chemical transfer hose designed for almost every common industrial chemical used in industry today. Non-staining UHMW tube.

\*WARNING! Elevated temperatures can change the chemical resistance rating of 4700. Check the chemical resistance charts published by Novaflex to verify that the chemical to be transferred is rated for use with the UHMWP tube at the temperature & concentrations listed. Most chemicals become more aggressive the higher the temperature, reducing the ability of the tube material to withstand them. Compatibility information is available from Novaflex. If no data exists, it is the users responsibility to determine if the hose is compatible with the chemical to be transferred. Never use Novaflex 4700 above the ratings listed by Novaflex.

## Eaton® Corrugated Green CROSS-LINKED™ H0615



Part No.		Hose I.D		Hose	0.D.	Max Operating Pressure		`	ırst ssure		mum Radius	Vacuum		Weight		Length	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	in/Hg	kg/m	lbs/ft	mtr	ft
H061532-150	51	50,8	2	66,7	2.63	17,2	250	70	1000	152,4	7	94,8	28	1,68	1.13	45,7	150
H061548-150	80	76,2	3	92,1	3.63	12,1	175	48	700	304,8	12	94,8	28	2,44	1.64	45,7	150

### **Construction:**

Tube: XLPE

Reinforcement: 2-ply fiber

with helical wire

Cover: Corrugated EPDM

## **Operating Temperature:**

-43°C to +66°C (-45°F to +150°F)

### **Application:**

- For transfer of acids, chemicals, solvents, and petroleum products
- Loading and unloading, pumping, suction, or gravity flow discharge

### Markets:

- · Chemical petroleum industry
- · In-plant transfers
- Tank truck
- Paper/pulp industry
- Bulk hauling
- Oil and gas exploration

## **Type of Couplings:**

- Cam and groove
- Combination nipple
- Male NPT

Contact coupling manufacturer for other coupling recommendations including proper metal selection (stainless, aluminum, brass etc.) and attachment procedure with crimp specifications.













## Eaton® STEAM SLAYER™ EH084



Part No.		Hose I.D.		Hose O.D.		_	erating sure	_	rst sure	We	ight	Length		
	DN	mm	in	mm	in	bar	psi	bar	psi	kg/m	lbs/ft	mtr	ft	
EH08408	12	12,7	0.5	27,7	1.09	17,2	250	172	2500	0,73	0.49	15,2	50	
EH08412	19	19,0	0.75	33,5	1.32	17,2	250	172	2500	0,94	0.63	15,2	50	
EH08416	25	25,4	1	40,4	1.59	17,2	250	172	2500	1,28	0.86	15,2	50	

#### **Construction:**

Tube: Special chlorobutyl blend Reinforcement: 2-wire braid Cover: Pin-pricked EPDM

## **Operating Temperature:**

-40°C to +208°C (-40°F to +407°F) For superheated steam +232°C (+450°F)

## **Application:**

• Transfer of steam for processing products and cleaning equipment

#### Markets:

- · Refining and petrochemical
- · Paper industry
- · Industrial cleaning markets
- · Oil and gas exploration
- Steel
- Ship building

## **Type of Couplings:**

• Eaton EJ series

Contact coupling manufacturer for attachment procedure and other coupling recommendations

## Eaton® Concord 250 Steam H9568



Part No.		Hose I.D.		Hose	0.D.		perating ssure		rst sure	We	ight	Length	
	DN	mm	in	mm	in	bar	psi	bar	psi	kg/m	lbs/ft	mtr	ft
H956808BK	12	12,7	0.5	26,2	1.03	17,2	250	172	2500	0,68	0.46	15,2	50
H95608BK-100*	12	12,7	0.5	26,2	1.03	17,2	250	172	2500	0,68	0.46	30,5	100
H956812BK	19	19,0	0.75	34,0	1.34	17,2	250	172	2500	1,04	0.7	15,2	50
H956812BK-100*	19	19,0	0.75	34,0	1.34	17,2	250	172	2500	1,04	0.7	30,5	100
H956816BK	25	25,4	1	39,6	1.56	17,2	250	172	2500	1,43	0.96	15,2	50
H956816BK-100*	25	25,4	1	39,6	1.56	17,2	250	172	2500	1,43	0.96	30,5	100

<sup>\*\*</sup>Also product available in RD-Red for select items

## **Construction:**

Tube: EPDM Reinforcement: 2-wire braid

Cover: Pin-pricked EPDM

## **Operating Temperature:**

Maximum Operating +232°C (+450°F)

## **Application:**

 Transfer of steam for processing products and cleaning equipment

## Markets:

- Refining and petrochemical
- Paper industry
- Industrial cleaning markets
- Oil and gas exploration
- Steel
- Ship building

## **Type of Couplings:**

- Ground joint female
- Boss male

Contact coupling manufacturer for attachment procedure and other coupling recommendations













## **Eaton® Hydrocarbon Drain H9690**



Part No.		Hose I.D.		Hose	0.D.		perating ssure	_	rst sure	Wei	ight	Len	igth
	DN	mm	in	mm	in	bar	psi	bar	psi	kg/m	lbs/ft	mtr	ft
H969012	19	19,0	0.75	34,1	1.34	21,0	300	207	3000	0,89	0.6	15,2	50

#### **Construction:**

Tube: Nitrile (RMA Class A) Reinforcement: 2-wire braid Cover: Pin-pricked chlorinated

polyethylene

## **Operating Temperature:**

+177°C (+350°F)

## **Application:**

· For hydrocarbon drain service

#### Markets:

- Petroleum
- Refineries

## **Type of Couplings:**

- Boss Male
- · Ground joint female
- Eaton EJ series

Contact coupling manufacturer for attachment procedure and other coupling recommendations

## Eaton® Nitrogen H8811



Part No.		Hose I.D.		Hose	O.D.		erating sure		rst sure	Weight		Length	
	DN	mm	in	mm	in	bar	psi	bar	psi	kg/m	lbs/ft	mtr	ft
H881112YW-250	19	19,0	0.75	30,2	1.19	21,0	300	83,0	1200	0,57	0.38	76,2	250

#### **Construction:**

Tube: Nitrile

Reinforcement: 4-spiral fiber Cover: Pin-pricked neoprene **Operating Temperature:** 

-40°C to 82°C (-40°F to 180°F)

## **Application:**

• For transfer of nitrogen at ambient temperatures

#### Markets:

- Refineries
- · Petroleum industry

## **Type of Couplings:**

- "U" series
- · Barbed inserts
- · Boss male
- Ground joint female

Contact coupling manufacturer for attachment procedure and other coupling recommendations





























## Instrumentation Fittings & Valves

























## **HOSE • FITTINGS • ACCESSORIES**

901 East Jefferson Street Bensenville, IL 60106

Phone: 847-455-4550 Fax: 847-455-4559 5800 Technology Circle Appleton, WI 54914

Phone: 920-455-4550 Fax: 920-733-7756 www.geibind.com

## **PRODUCTS**

- · Hydraulic Hose, Fittings, Assemblies
- Corrugated Metal Hose Assemblies
- Industrial Hose, Fittings, Assemblies
- Teflon (PTFE) Hose, Fittings, Assemblies
- Thermoplastic Hose, Fittings, Assemblies
- · Composite Hose Assemblies
- Hydraulic Quick Disconnect Couplers
- Pneumatic Quick Disconnect Couplers
- Expansion Joints
- Instrumentation Tube, Fittings, & Valves
- Hydraulic Adapters & Tube Fittings
- Pneumatic Tubing & Fittings
- . Brass Fittings, & Valves
- Hose Reels
- Ducting
- Tubing & Pipe
- Industrial & Hydraulic Swivel Joints
- Filters, Regulators, Lubricators
- · Gauges, Thermometers, Ball Valves





















## **SERVICES**

- Full Service Hose Assembly
- Custom Metal Hose Fabrication
- Technical Support
- Custom Tube Bending
- Field Engineering and Evaluation Service
- Bin Stocking Assistance (VMI)
- Custom Tagging, Kitting, & Barcoding
- Hose Testing & Certification
- Hose Repair & Refurbishing
- Geib Truck Deliveries

## INDUSTRIES SERVED

- Power Generation/Alternative Energy
- Primary Metals
- Oil & Gas Processing
- 0EM
- Waste Services
- · Truck, Bus & Rail
- Tank Truck
- Food Processing
- Chemical
- Agriculture
- Mining
- · Pulp, Paper/Wood
- Rental & Construction
- Pharmaceutical
- Turf
- Car Wash
- Material Handling

## Our Mission is Simple: To be a leader in the hose and fittings industry.

We will achieve this by providing quality products, exceptional service and a dedicated team serving you, our valued customers!













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Fax: 847-455-4559

5800 Technology Circle Appleton, WI 54914 Phone: 920-455-4550 Fax: 920-733-7756









