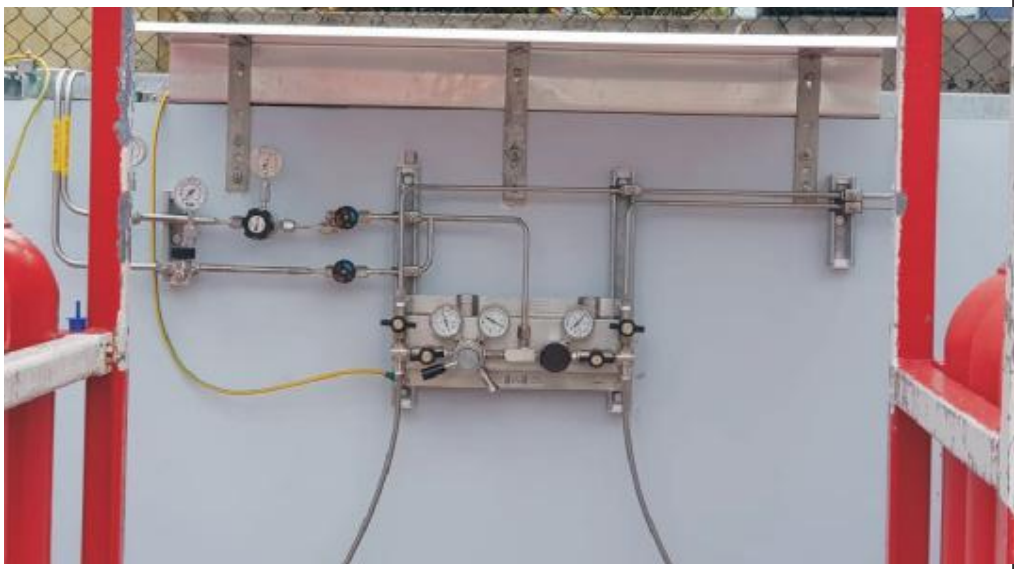
NAI-LOK®



NAI-LOK®

www.nailokgroup.com

耐 流 实 业

Professional Manufacturer of Valves and Fittings

Whether your needs are components like regulators and valves or pressure systems and assemblies,NAI-LOK provides expert application and customer support from simple industrial applications to high tech complex projects.

Authorized NAI-LOK Distributor in your territory

NAI-LOK® 耐流实业

Shanghai Nai Lok Industrial Co., Ltd.

>ABOUT US

NAI-LOK brand was established in Shanghai in 2000, we focus on the production, research and development, sales of instrumentation valves, fittings, hose & tubing. We have three plants in China and our headquarter is located in Shanghai. We manufacture valves in special materials such as HASTELLOY®, titanium, nickel alloys, INCOLOY®,MONEL®, super-duplex, corrosion resistant alloys and urea grade materials. We have the world's advanced processing equipment, testing equipment, class 100 grade clean room to ensure quality control and on time delivery.We strive to develop, serve global customers and provide stable and reliable proroducts.

We have the capability to manufacture and supply 4 different product categories, including:

- General Instrumentation Valves and Fittings
- High Purity & Ultra High Purity Products
- Hose & Tubing
- Special Alloy Valves

Head Quarter & 1st Factory

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sales@nailokgroup.com

2nd Factory

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3rd Factory

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Singapore Office

Alzon Pte Ltd
50 Tagore Lane #04-11G Singapore 787494
alzon@nailokgroup.com

>1st Factory

>2nd Factory

>3rd Tube Factory

Accredited Quality

We have passed ISO9001 quality management system certification, domestic TS security certification, CE.

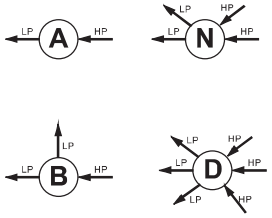
Industry-Leading Experience

A primary focus of NAILOK is continuously investing in state-of-the-art machinery according to the latest technology

Your long-term business partner

With engineering,production, assembling and testing under one roof, we manufacture valves you urgently need in a very limited time frame.
Flexible at all times, especially for emergency valve requirements.

- ▶ Inconel Fittings
- ▶ Hastelloy Manifolds Valves
- ▶ Monel Fittings
- ▶ Hastelloy Ball Valves



* For NR11,NR31 Series, this high pressure "D" port configuration is plugged. This port can be used for purging purpose only.

1. Inlet (High) Pressure Gauge
High accuracy and stability

2. Inlet Connection
Multiple connections available
Compliant with CGA/BSP/DIN/JIS/GB standards

3. Outlet Connection
Multiple connections available

4. Outlet (Low) Pressure Gauge
High accuracy and stability

5. Regulator Body
Fabricated from high-strength corrosion-resistant material
Fabricated with advanced CNC machines to produce the highest quality of parts

6. Diaphragm Valve
Designed to withstand temperature and vibration fluctuations
Assure a consistent outlet flow

7.Safety Relief Valve
Accurate relief of pressure

NAI-LOK®

REGULATORS TABLE OF CONTENTS

ACCESSORIES

NR11 SERIES
Cylinder Pressure Regulator

NAI-LOK®

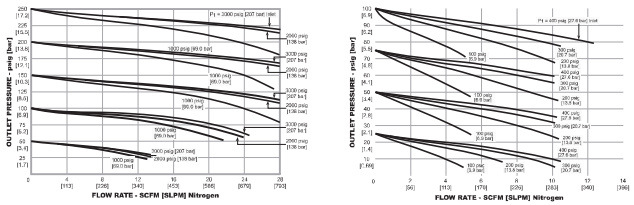
Features

- Good protection against burst and corrosion due to diaphragm material stainless steel
- Available in chrome plated brass,alloy
- Stable outlet pressure
- Gauge ports are standard
- Stable outlet pressure
- High flow rates

Technical Data

Ports	1/4"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless steel /Chrome plated brass
Bonnet Materia	Stainless steel /Brass
Diaphragm	Hastelloy ®/316 Stainless steel (standard)
Seat	PFA
Maximum Inlet Pressure	3500 psig(241 bar)/0-400 psig (0-27.5 bar)
Outlet Pressure Ranges	0-25 psig (0-1.7 bar)/0-50 psig (0-3.4bar)/0-250 psig (0-17.2 bar)/0-400psig (0-27.5 bar)
Operating Temperature	-40°F to 185°F(-40°C to 74°C)
Leakage	Internal:Bubble-tight External:Design to meet< 2×10*atm cc /sec He
Flow Capacity	Cv=0.06
Standard Optional	CGA,relief valve,pressure gauges,etc

Flow Data



Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

NR11	S	0	F	1	4	W	R	P	A
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet Pressure	Port Type	Gauge	Option 1	Option 2	Option 3
NR11	C-Chrome plated brass S-316 Stainless steel HC-Hastelloy	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-250psig 0-17.2bar 4-0-400psig 0-27.5bar	F-NPTF	1-3500psig 241bar 2-500psig 34.5bar	3-3 Ports (inlet 500psig) 4-4 Ports 6-6 Ports	0-Without W-With	R-Relief valve (6 Ports only)	P-Panel nut	A-Assembled on panel

NR12 SERIES
High Flow Regulator

NAI-LOK®

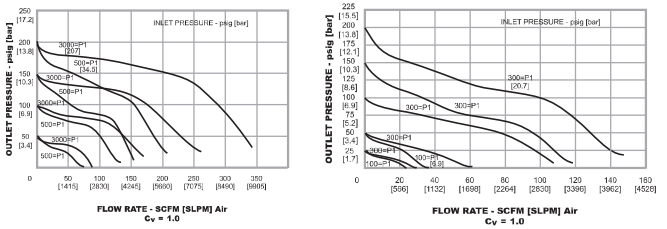
Features

- 316 Stainless steel body for corrosive gases
- Diaphragm type outlet pressure: 0-150psig (0-10.3bar)
- Piston type outlet pressure: 0-600psig (0-41.3bar)
- Gauge ports are standard
- Stable outlet pressure
- High flow rates

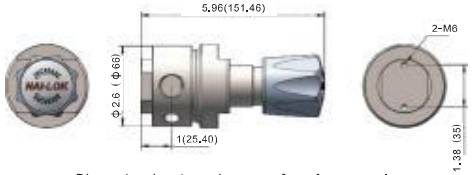
Technical Data

Ports	1/2"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless steel
Bonnet Material	316 Stainless steel
Diaphragm	Hastelloy ®/316 Stainless steel (standard)
Seat	PFA
Maximum Inlet Pressure	3000 psig(207 bar)/500 psig(34.5 bar)
Outlet Pressure Ranges	0-25 psig (0-1.7 bar)10-50 psig (0-3.4 bar)10-100 psig (0-6.9 bar)10-200 psig (0-13.8 bar)
Operating Temperature	-40°Fto 140°F(-40°C to 60°C)
Leakage	Internal Bubble-tight External:Design to meet <2x10*atm cc /sec He
Flow Capacity	Cv=1.0
Standard Optional	Inlet and outlet gauges

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

NR12	S	0	F	8	1	4	W
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Inlet Pressure	Port Type	Gauge
NR12	S-316 Stainless steel	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-150psig 0-10.3bar 4-0-600psig 0-41.3bar (piston type only)	F-NPTF	8-1/2"	1-3000psig 207bar 2-500psig 34.5bar P-5000psig 345bar (piston type only)	3-3 Ports (inlet 500psig) 4-4 Ports	0-Without W-With

NR13 SERIES
High Flow Regulator

NAI-LOK®

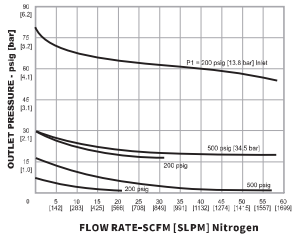
Features

- Accurate and designed to provide high flow at low control pressure
- Good protection against burst and corrosion
- Diaphragm type outlet pressure: 0-150psig (0-10.3bar)
- Piston type outlet pressure: 0-600psig (0-41.3bar)
- 316 Stainless steel body for corrosive gases
- Gauge ports are standard
- Stable outlet pressure

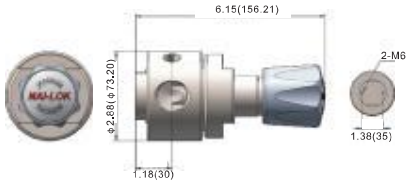
Technical Data

Ports	3/4"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless steel
Bonnet Material	316 Stainless steel
Diaphragm	Hastelloy ®/316 Stainless steel (standard)
Seat	Teflon ®
Maximum Inlet Pressure	3000 psig(207 bar)/500 psig(34.5 bar)
Outlet Pressure Ranges	0-25 psig (1.7 bar)/0-50 psig(3.4 bar)/0-150 psig (17.2 bar)
Operating Temperature	-40°F to 165°F(-40°C to 74°C)
Leakage	Internal:Bubble-tight External:Design to meet <2×10⁻ ⁶atm cc/sec He
Flow Capacity	Cv=1.8
Standard Optional	Inlet and outlet gauges

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

NR13	S	0	F	12	1	4	W
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Inlet Pressure	Port Type	Gauge
NR13	S-316 Stainless steel	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-150psig 0-10.3bar 4-0-600psig 0-41.3bar (piston type only)	F-NPTF	12-3/4	1-3000psig 207bar 2-500psig 34.5bar P-5000psig 345bar (piston type only)	3-3 Ports (inlet 500psig) 4-4 Ports	0-Without W-With

NR31 SERIES
Dual-Stage Regulator

NAI-LOK®

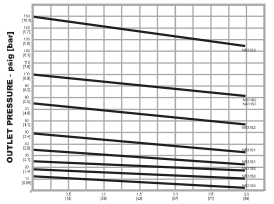
Features

- Specially designed to regulate high pressure gas to low pressure status
- Provide a continuous accurate outlet pressure regardless of inlet pressure fluctuations
- Features a unique metal-to-metal diaphragm to body seal
- Diaphragms are convoluted for greater accuracy and sensitivity
- Available in chrome plated brass

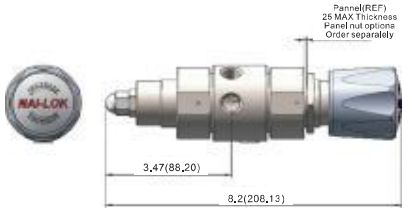
Technical Data

Ports	1/4"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless stee/Chrome plated brass
Bonnet Materia	Stainless steel /Brass
Diaphragm	Hastelloy ®/316 Stainless steel (standard)
Seat	PFA
Maximum Inlet Pressure	3500 psig(241 bar)
Outlet Pressure Ranges	0-25 psig (0-1.7 bar)/0-50 psig (0-3.4 bar)/0-100 psig (0-6.9 bar)/0-250 psig (0-17.2 bar)
Operating Temperature	-40°F to 165°F(-40°C to 74°C)
Leakage	Internal:Bubble-tight External:Design to meet≤2×10⁻ ⁶atm cc /sec He
Flow Capacity	Cv=0.05
Standard Optional	CGA,Inlet and outlet gauges,relief valve

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

NR31	S	0	F	4	1	4	W	R	P
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Inlet Pressure	Port Type	Gauge	Option 1	Option 2
NR31	C-Chrome plated brass S-316 Stainless steel	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-150psig 0-10.3bar 4-0-250psig 0-17.2bar	F-NPTF	4-1/4"	1-3500psi 241bar	4-4 Ports 5-5 Ports	0-Without W-With	R-Relief valve (5 ports only)	P-Panel nut

NR41 SERIES
High Pressure Regulator

NAI-LOK®

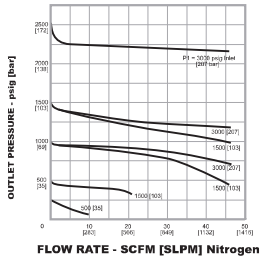
Features

- Compact design
- Available in chrome plated brass
- Numerous inlet and outlet porting options
- Excellent sensitivity through a wide range of pressure settings
- Piston-sensed design ensures safety and reliability

Technical Data

Ports	1/4"NPT
Design Proof Pressure	150% maximum rated pressure
Body Material	316 Stainless steel/Chrome plated brass
Bonnet Materis	Stainless steel /Brass
Main Valve	316 Stainless steel
Seat	Teflon ®
Maximum Inlet Pressure	5500 psig (379 bar)
Outlet Pressure Ranges	0-1000 psig (0-69 bar)/0-1500 psig (0-103 bar)/0-2500 psig (172 bar)
Operating Temperature	-15°F to 165°F(-26°C to 74°C)
Leakage	Bubble-tight
Flow Capacity	Cv=0.06(non-venting)

Flow Data



Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

NR41	S	2	F	4	1	4	W	P
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Maximum Inlet Pressure	Port Type	Gauge	Option
NR41	C-Chrome plated brass S-316 Stainless steel	1-0-1000psig 0-69bar 2-0-1500psig 0.103bar 3-0-2500psig 0-172bar	F-NPTF	4-1/4"	1-5500psig 379bar	4-4 Ports	0-Without W-With	P-Panel nut

NRH41 SERIES
Ultra High Pressure Regulator

NAI-LOK®

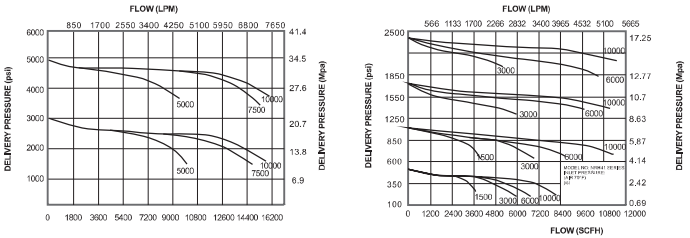
Features

- Piston-Sensed applicable for high pressure applications.
- Single stage configuration

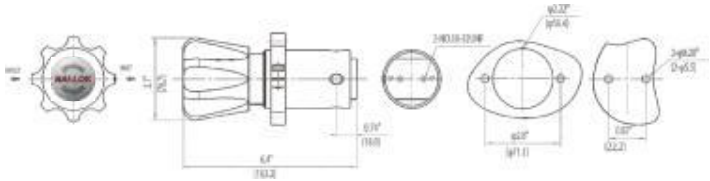
Technical Data

Body	316 Stainless Steel
Seat	VESPEL®
Piston	316 Stainless Steel
Adjusting Knob	ABS Plastic
O-ring	Viton

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

NRH41	S	2	F	2	4	W
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet	Maximum Inlet Pressure	Port Type	Gauge
NRH41	S-316 Stainless steel	1-0-2500psig 0-172.4bar 2-0-4000psig 0-275bar	4-1/4"	1- 10000 psig 689bar 2- 6000 psig 414bar	4-4 Ports	0-Without W-With

NR61 SERIES
High Flow Regulator

NAI-LOK®

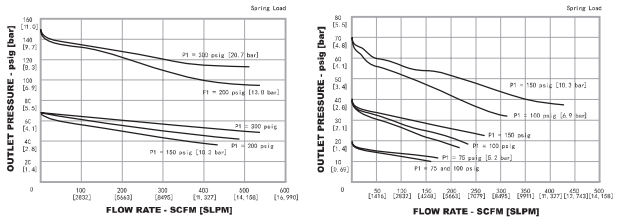
Features

- Accurately regulates pressure up to 150psig (10.3bar)for spring load
- High flow for pipeline application
- 4 ports flexible configuration
- Spring loaded handknob

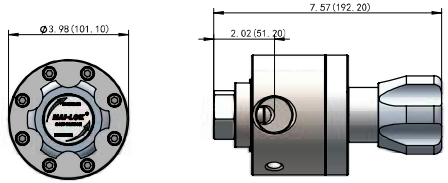
Technical Data

Ports	1"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless steel
Bonnet Material	316 Stainless steel
Diaphragm	Ethylene Propylene or Nylon Reinforced,Gylon ® (PTFE)
Seat	Viton ®,Chemraz ®
Maximum Inlet Pressure	3000 psig (207 bar)/500 psig (34.5 bar)
Outlet Pressure Ranges	0-25 psig (0-1.7 bar)/0-50 psig(0-3.4 bar)/0-100 psig(0-6.9 bar)/0-150 psig (0-10.3 bar)
Operating Temperature	4°F to 165°F(-20°C to 74°C)
Leakage	Bubble-tight
Flow Capacity	Cv=5.0
Standard Optional	Tube fitting

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

NR61	S	2	F	16	1	3	W
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Maximum Inlet Pressure	Port Type	Gauge
NR61	S-316 Stainless steel	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-150psig 0-10.3bar	F-NPTF	16-1"	1-3000psig 207bar 2-500psig 34.5bar	3-3 Ports (inlet 500psig) 4-4 Ports	0-Without W-With

NRH61 SERIES
High Flow High Pressure Regulator

NAI-LOK®

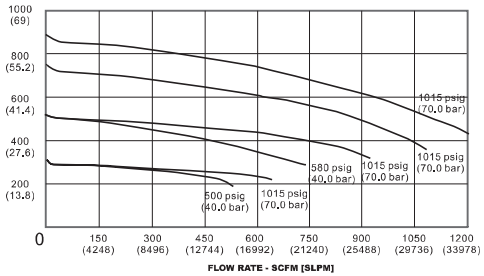
Features

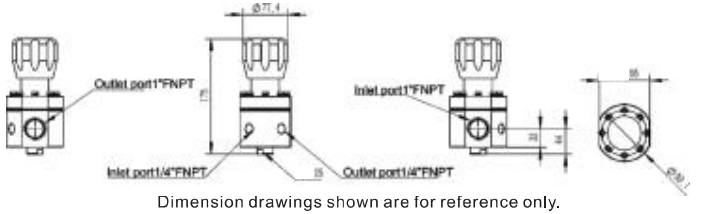
- Piston design
- Outlet pressure ranges
- High pressure high flow application
- 4 ports flexible configuration
- Stainless steel body for corrosive gases

Technical Data

Ports	1"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless steel
Bonnet Materia	316 Stainless steel
Diaphragm	Ethylene Propylene or Nylon Reinforced,Gylon ®(PTFE)
Seat	Viton ®,Chemraz ®
Mayimum Inlet Pressure	6000 psig (403 bar)
Outlet Pressure Ranges	0-300 psig(0-20.7 bar)/0-500 psig(0-34.5 bar) /0-1000 psig (68.9bar)
Operating Temperature	4°F to 165°F(-20°C to 74°C)
Leakage	Bubble-tight
Flow Capacity	Cy=5.0
Standard Optional	Tube fitting

Flow Data





Dimension drawings shown are for reference only.

Ordering Information

NRH61	S	2	F	16	1	3	W
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Maximum Inlet Pressure	Port Type	Gauge
NRH61	S-316 Stainless steel	0-300 psig 0-20.7 bar 0-500 psig 0-34.5 bar 0-1000 psig 68.9bar	F-NPTF	16-1"	1-6000psig 414 bar	4-4 Ports	0-Without W-With

NR71 SERIES
Back Pressure Regulator

NAI-LOK®

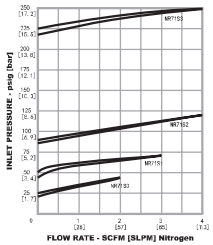
Features

- Back pressure regulators work similarly to relief valves but the emphasis is on steady state pressure control instead of on/off actuation
- Convoluted metal-to-metal sealed diphragm
- Close pressure differential between crack and reseat
- Panel mounting nut option

Technical Data

Ports	1/4"NPT
Design Proof Pressure	150% maximum rated pressure
Body Material	316 Stainless steel
Diaphragm	Hastelloy ®/316 Stainless steel (standard)
O-ring	Viton ®,Kalrez ®
Controlled Pressure ranges	0-250 psig (17.2 bar)
Operating Temperature	-15°F to 165°F(-26°Cto 74°C)
Fow Capacity	Cv=0.3
Standard Optional	Tube fitting

Flow Data



Dimension (mm)

Dimension drawings shown are for reference only.

NR71	S	1	2	4	3	W
Basic Series	Body Material	Control Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Port Type	Gauge
NR71	S-316 Stainless steel	1-0-250psig 0-17.2bar	2-NPTF	4-1/4"	3-3 Ports	0-Without W-With

DHG SERIES
High Flow Regulator

NAI-LOK®

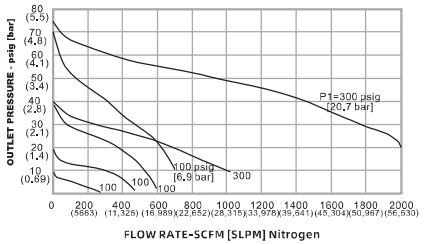
Features

- High flow up to 1400scfm
- High flow for pipeline application
- 316 Stainless steel body for corrosive gases
- Spring loaded handknob

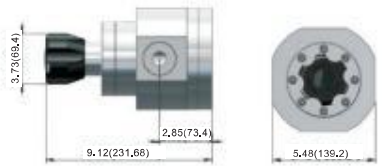
Technical Data

Ports	2"NPT
Design Proof Pressure	150%maximum rated pressure
Body Material	316 Stainless steel
Bonnet Materia	Stainless steel
Diaphragm	Gylon ®
Seat	Viton ®,Buna-N
Maximum Inlet Pressure	300 psig (20.7 bar)
Outlet Pressure Ranges	0-25 psig (0-1.7 bar) / 0-50 psig (0-3.4 bar) / 0-100 psig (0-6.9 bar) / 0-150psig (0-10.3 bar)
Operating Temperature	-10°F to 165°F(-23°C to 74°C)
Leakage	Bubble-tight
Flow Capacity	Cv=10
Standard Optional	Tube fitting

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

DHG	S	2	F	50	1	2
Basic Series	Body Material	Outlet Pressure Ranges	Inlet And Outlet Port Type	Inlet And Outlet Port Size	Inlet Pressure	Gauge Port Options
DHG	S-316 Stainless steel	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-150psig 0-10.3bar	F -NPTF	50-2"	1-300psig 21 bar	2-2 Ports (no gauge port)

HRG90 SERIES
High Flow Regulator

NAI-LOK®

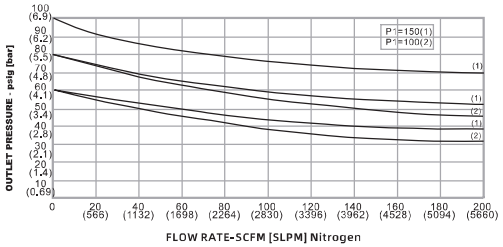
Features

- Accurately regulate pressure up to 130psig (8.9bar).
- High purity application.
- Performs well at very low pressure differencial

Technical Data

Maximum Rated Inlet Pressure	300 psig (21.2 bar)
Maximum Outlet Pressure	130 psig (8.9 bar)
Design Proof Pressure	150% maximum rated pressure
Body Material	316 Stainless steel
Operating Temperature.	-20°F to 150°F (-29°C to 65°C)
Flow Capacity	Cv=8.0
Weight	66 lbs (30 kg)
Surface Grade	BA (standard), Ra=10μin / Electropolishing,Ra=5μin

Flow Data



Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

HRG90	S	1	F	1	2
Basic Series	Body Material	Control Pressure Ranges	Inlet And Outlet Port Type	Inlet Pressure	Port Type
HRG90	S-316 Stainless steel	1-0-130psig 0-8.9bar	F-NPTF TW-Tube Weld	1-300psig 21.2 bar	2-2 Ports (no gauge port)

PRM SERIES
Panel Regulator

NAI-LOK®

Features

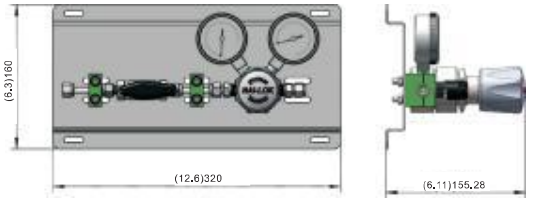
- Single stage.
- For purity,inert,reactive,flammable and oxidizing gas and gas mixtures.
- Optional contactpressure gauges for gas supply failure monitoring
- Laboratory pressure control
- Accept custom panel

(Custom design,please consult us)

Technical Data

Body Material	316 Stainless steel
Inlet Pressure	Max.300bar
Outlet Pressure	0-25 psig(1.7 bar)/0-50 psig (3.4 bar)10-100 psig (6.9 bar)/0-250 psig(17.2 bar)0-2500 psig(172.4 bar)
Diaphragm (regulator)	Hastelloy ®/316 Stainless steel (standard)
Operating Temperature	-40°F to 165°F(-40°C to 74°C)
Dimension (wxhxd)	320x160x153 mm
Weight	2.2KG
Inlet	1/4"FNPT
Outle	1/4"FNPT
Optional	Relief valve,tube fitting

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

PRM	S	1	0	4N	4N	R	
Basic Series	Body Material	Inlet Pressure	Outlet Pressure Range	Inlet Connection	Outlet Connection	Option	Gas Type
PRM	S-316 Stainless steel	1-4000 psig 276 bar	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3.0-250psig 0-17.2bar 4-0-2500psi 0-172.4bar (NR41 Series)	4F-1/4"NPTF 4N-1/4"OD	4F-1/4"NPTF 4N-1/4"OD	R-Relief Valve (NR11 series)	Please specify

PMF SERIES
Semi-automatic Changeover System

NAI-LOK®

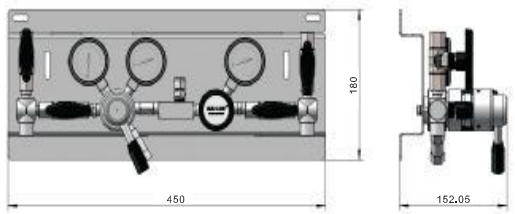
Features

- Single stage.
- For purity,inert,reactive,flammable and oxidizing gas and gas mixtures.
- Uninterrupted gas supply with semi-automatic switch over
- Upgradable to max.2x4 cylinders.

Technical Data

Body Material	316 Stainless steel
Inlet Pressure	Max.300bar(with BV ball valve)
Outlet set Pressure	200 psig (13.8 bar)
Diaphragm (regulator)	316 Stainless steel (standard)
Operating Temperature	-40°F to 165°F(-40°C to 74°C)
Dimension (wxhxd)	400x154x153 mm
Weight	5.5KG
Inlet	1/4"FNPT
Outlet	1/4"FNPT
Optional	Relief valve,hose,tube fitting

Dimension (mm)



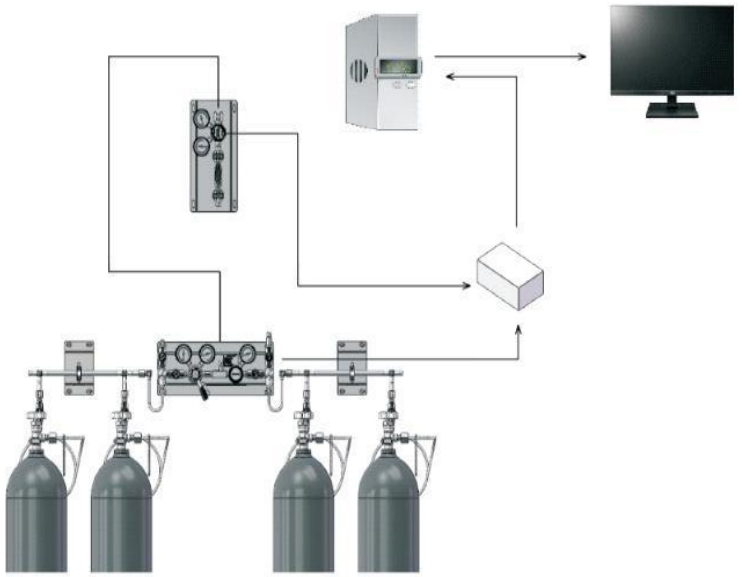
Dimension drawings shown are for reference only.

Ordering Information

PMF	S	40	20	4N	4N	W	BV
Basic Series	Body Material	Inlet Pressure	Outlet Set Pressure	Inlet Connection	Outlet Connection	Purge Valve	Isolating Valve
PMF	S-316 Stainless steel	40-4000 psig 276 bar (BV ball valve) 20-2900psig 200 bar (DV diaphragm valve)	20-200 psig 13.8 bar	4F-1/4"NPTF 4N-1/4"OD	4F-1/4"NPTF 4N-1/4"OD	0-Without W-With	BV-Ball Valve 4000psig DV-Diaphragm Valve 2900psig

PMF SERIES
Semi-automatic Changeover System

NAI-LOK®



Description

PMF series is a continuous gas delivery system for high purity gas service,typically in the laboratory or process plant,that changes cylinder or bank priority from the primary source to a reserve supply without transmitting pressure fluctuations to the use line.

How it works?

Semi-automatic panels handle two cylinders(or bundles)at a time.When the pressure decreases in the active cylinder below a preset level which causes a semi-automatic-switch to switch over to the full cylinder,this is achieved by two integrated pressure regulators.Factory set to slightly different delivery pressure levels,which are connected at their outlet ports.Moving the lever towards the full cylinder without interrupt the gas flow after the cylinders at the primary side are changed,the handle is turned thus changing the secondary side(delivering the gas)to the new primary side.

Applications:

Research purity or corrosive gas supply
Hydrogen and other flammable gases.
Central gas supply system for laboratory research or process plants.

Pigtail

Material	316 Stainless steel
Max.Working Pressure	3500 psi / 241bar
Swivel Nut	M14x14.5 or NPT 1/4"M
Cylinder Connection	CGA/BS/DIN
Gas Type	Please specify

AC-PMF SERIES

Semi-automatic Dual-stage Changeover System

NAI-LOK®

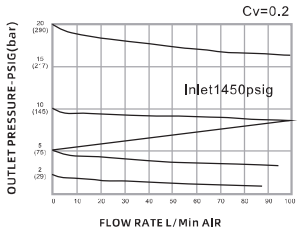
Features

- Dual stage
- For purity,inert,reactive,flammable and oxidizing gas andgas mixtures.
- Control 2/4 cylinders
- Process gas purging
- Laboratory pressure control

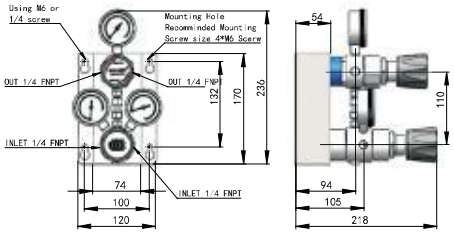
Technical Data

Body Material	316 Stainless steel
Inlet Pressure	Max.300bar
Outlet Pressure	200 psig (13.8 bar)
Diaphragm (regulator)	Hastelloy® /316 Stainless steel (standard)
Operating Temperature	-40°F to 165°F(-40°Cto 74°C)
Dimension (wxhxd)	400x154x153 mm
Weight	5.5KG
Inlet	1/4"FNPT
Outlet	1/4"FNPT
Optional	Relief valve,hose,tube fitting

Flow Data



Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

AC-PMF	S	40	10	4F	4F	CV	N2
Basic Series	Body Material	Inlet Pressure	Outlet Pressure control	Both Inlet	Outlet Connection	Option	Gas Type
AC-PMF	S-316 Stainless steel	40-4000 psig 276 bar	10=0-145 psig 0-10 bar 20-0-250 psig 0-17.2 psig	4F-1/4"NPTF	4F-1/4"NPTF	CV=Inlet with check valves	Please specify

PRD SERIES

Panel Regulator

NAI-LOK®

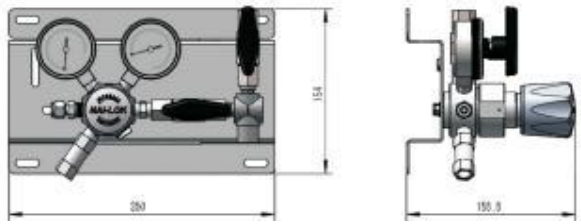
Features

- Single stage
- For purity, inert, reactive, flammable and oxidizing gas and gas mixtures
- Hastelloy-internals for corrosive gases
- Process gas purging
- Laboratory pressure control

Technical Data

Body Material	316 Stainless steel
Inlet Pressure	Max.300bar
Outlet Pressure Diaphragm (regulator)	0-25 psig (1.7 bar)/0-50 psig(3.4 bar)/0-100 psig(6.9 bar)10-250 psig (17.2 bar) 0-450 psig (31 bar)
Operating Temperature	40°F to 165°F(-40°Cto 74°C)
Dimension (wxhxd)	400x154x153 mm
Weight	3.0KG
Inlet	0-2500 psig(172.4bar)
Outlet	1/4"FNPT
Optional	Relief valve,tube fitting

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

PRD	S	1	0	4N	4N	BV	R
Basic Series	Body Material	Inlet Pressure	Outlet Pressure Ranges	Inlet Connection	Outlet Connection	Isolating Valve	Option
PRD	S-316 Stainless steel	1-4000 psig 276 bar (BV valve) 2-2900 psig 200bar (DV valve)	0-0-25psig 0-1.7bar 1-0-50psig 0-3.4bar 2-0-100psig 0-6.9bar 3-0-250psic 0-17.2bar 4-0-250psi 0-17.4bar (Nr41 Series)	4F-1/4"NPTF 4N-1/4"OD	4F-1/4"NPTF 4N-1/4"OD	BV-Ball valve 4000psi DV-Diaphragm valve 2900psi	R-With relief valve (NR11 only)

DV SERIES
Diaphragm Shut-off Valve

NAI-LOK®

Features

- For corrosive,inert,reactive,flammable and oxidizing gases
- For high purity grade 6.0 gases
- Quick operation through 90°shut -off function

Technical Data

Ports	1/4"NPT	Working Pressure	2900 psi (200 bar)
Body Material	316 Stainless steel /Nickel plated brass	Weight	-13°F to 140°F(-25°C to 60°C)
Diaphragm	Elgiloy	Inlet /Outlet Filter	100 μm mesh
Body Seal	PCTFE	Optiona	Panel mounting

Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

DV	S	F	4	N_2
Basic Series	Body Material	End Connection	Size	Gas Type
DV	S-316 Stainless steel	F-Female NPT	4-1/4"	Please specify type of gas

DR SERIES
Diaphragm Shut-off Valve

NAI-LOK®

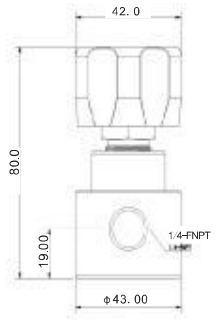
Features

- Suitable for high purity applications
- Metal-to-metal seal minimizes particle generation and ensures purity integr in the flow passages
- Clearly visible open/closed position

Technical Data

Body Material	316 Stainless
Seat	PCTFE
Working Pressure	3000 psi (206 bar)
Temperature Range	40°F~150°F (-40°C~ 65°C)
Diaphragm	Elgiloy®
Option	Panel Mounting

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

DR	S	F	4	2	N_2
Basic Series	Body Material	End Connection	Size	Ports	Gas Type
DR	S-316 Stainless steel	F-Female NPT	4-1/4"	2-2 ports (inlet and outlet) 3-3 ports (1 inlet and 2 outlet)	Please specify type of gas

NPG SERIES
Pressure Gauge

NAI-LOK®

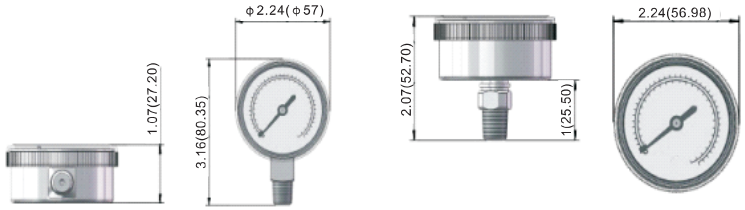
Features

- Compact body, for installation in small space
- 100% factory tested, oil-free.
- Body material:316 stainless steel
- Different pressure ranges are available.

Technical Data

Body Materia	316 Stainless steel
Connection	1/4"NPT male
Dual Scale	Psig/Bar
Dial Face Size	2"

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

NPG-B		S	M	4	A	N
Basic Series		Material	Connection	Connection Size	Pressure Ranges	Option
NPG	NPG-B (bottom connection) NPG-K (back connection)	S-316 Stainless steel	M-Male NPT	4-1/4 in	A-0-30psi/2.1bar B-0-60psi/4.2bar C-0-100psi/6.9bar D-0-160psi/11bar E-0-200psi/13.8bar F-0-300psi/20.6bar G-0-600psi/41.3bar H-0-1000psi/69bar F-0-1500psi /103bar J-0-2000psi /138bar K-0-2500psi /173bar L-0-4000psi/276bar M-0-6000psi /414bar	0-Without brand N-NAILOK brand (standard)

BG SERIES
Ball Valve

NAI-LOK®

Features

- Pressure up to 3000 psig (206 bar)
- Lowest dead space design
- One-piece body -reduces the number of potential leak points.
- Bi-directional flow
- Nylon directional handle -indicates the flow through the valve.
- Panel mounting nut - is standard and permits valve to panel or actuator.
- Available in pneumatic

Technical Data

Body Material	316 Stainless steel
Handle	Black Nylon
Mounting Nut	316 Stainless steel
Seat	PTFE
Packing	PTFE
Max Working Pressure	3000 psig (207 bar)
Working Temperature	-50°F to 150°F(10°C to 65°C)For low working temperature,please contact factory
size	1/4-1/2
End Connection	NPT female /NAI-LOK tube fitting

Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

BG	N	S	4	2
Basic Series	End Connection	Material	Size	Type
BG BG3 (3 way)	N=NAI-LOK F-Female NPT	S-316 Stainless steel	4-1/4 in. 6-3/8 in. 8-1/2 in.	2-2 way straight(standard) 3-3 way

Other end connection sizes please contact factory

BR SERIES
Ball Valve

NAI-LOK®

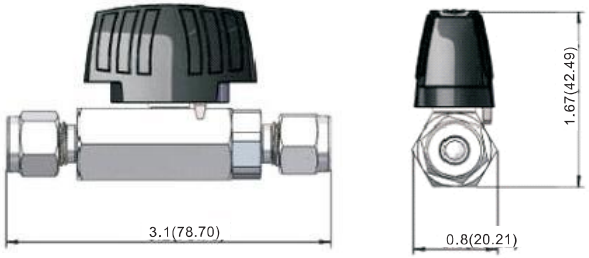
Features

- Compact and economical design.
- Standard lever handle,optional butterfly handle.
- Low operating torque.
- Options for handle color.
- Any reasonable connections available.

Technical Data

Body Material	316 Stainless steel	Max Working Pressure	1000 psig (69 bar)
Handle	Black Nylon /Butterfly /Lever	Working Temperature	-20°Fto 450°F(-28°C to 232°C)
Mounting Nut	316 Stainless steel	Size	1/4"-1"
Sea	PTFE	Outlet	Female /Male /NAI-LOK tube fitting
Packing	PTFE		

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

BR	N	S	4
Basic Series	End Connection	Material	Size
BR	N-NAI-LOK F-Female NPT M-Male NPT	S-316 Stainless steel	4-1/4 in. 6-3/8 in. 8-1/2 in.

Other end connection sizes please contact factory

BV SERIES
Ball Valve

NAI-LOK®

Features

- Compact design.
- Working Temperature: -65°F to 450°F (-54 ℃ to 232℃)
- Bi-drectional flow for straight valves
- Panel mounting as standard.
- Low operating torques and positive handle stops.
- High pressure capacity designed for blow-out proof with internally loaded ball stem.
- Available in pneumatic.

Technical Data

Body Material	316 Stainless steel	Max Working Pressure	6000 psig (414 bar)
Handle	Black Nylon	Working Temperature	-20°F to 450°F(-28°C to 232°C)
Mounting Nut	316 Stainless steel	Size	1/4"-1/2"
Sea	PTFE	End Connection	Female /Male /NAI-LOK tube fitting
Packing	PTFE		

Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

BV	N	S	4
Basic Series	End Connection	Material	Size
BV	N- NAI-LOK F-Female NPT M-Male NPT	S-316 Stainless steel	4-1/4 in. 6-3/8 in. 8-1/2 in.

Other end connection sizes please contact factory

NG SERIES
Needle Valve

NAI-LOK®

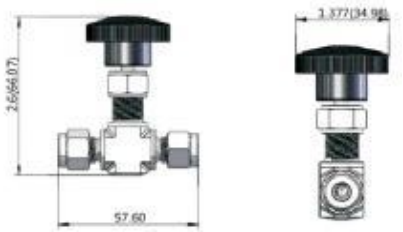
Features

- Maximum working pressure:4000 psig(276 bar)
- Working temperature
- PTFE:-65°F to 450°F(-54°C to 232°C)
- Compact design
- Leak-tight performance testing for every valve with nitrogen at the maximum working pressure

Technical Data

Body Material	316 Stainless steel
Handle	Black Knob,Anodized aluminum,Stainless steel
Panel Nut	316 Stainless steel
Maximum Working Pressure	4000psi(276Bar)
Working Temperature	PTFE:-65°F to 450°F(-54°C to 232°C) PEEK:-65°F to 600°F(-54°C to 315°C)
Stem	316 Stainless steel
Packing	PTFE or PEEK
Size	1/4"to 1/2"
End Connection	NAI-LOK tube ftting or NPT thread

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

NG	N	S	4
Basic Series	End Connection	Material	Size
NG	N-NAI-LOK F-Female NPT M-Male NPT	S-316 Stainless steel	4-1/4 in. 6-3/8 in. 8-1/2 in.

Other end connection sizes please contact factory

RV SERIES
Relief Valve

NAI-LOK®

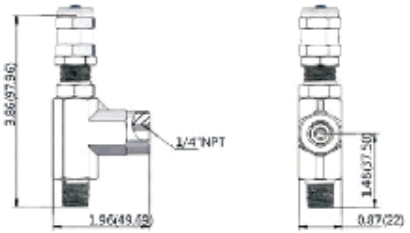
Features

- Compact body,for installation in small space
  Cracking pressure,adjustable extemally
- Lock wire capability,to maintain pressure reliefsetting
- Operating temperature range:-10°F to 400°F(-23°C to 204°C)
- Orifice size:4.8 mm (0.19in)
- Cracking pressure:is affected by the outlet pressure

Technical Data

Body Material	316 Stainless steel
Sea	Viton
Spring	SS316
Cracking Pressure Range	RV1:15-225 psig/1-15.5 bar to atmosphere RV2:225-6000 psig/16-414 bar
Max.working Pressure	RV1:300 psig/21 bar RV2:6000 psig/414 bar

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

RV1	N	4	L	S
Basic Series	End Connection	Size	Cracking pressure	Material
RV1 RV2	N-NAI-LOK F-Female NPT M-Male NPT	4-1/4 in. 6-3/8 in. 8-1/2 in.	L-15-225 psi A-220-350 psi B-350-750 psi C-750-1500 psi	S-316 Stainless steel

Other end connection sizes please contact factory

RVS SERIES
Relief Valve

NAI-LOK®

Features

- For low pressure service.
- Direct acting,spring loaded.
- It will open when system pressure reaches the set level.
- 100%factory tested,for proper set and resealing performance.

Technical Data

Body Materia	316 Stainless steel
Cracking Pressure	0-217psig(0-15 bar)/217-580psig (15-40bar)
Inlet Port	1/4"NPT Male
Outlet Port	1/4"NPT Female
Seal	Viton (standard)

Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

RVS	S	M	F	F	15
Basic Series	Material	Inlet Connection	Outlet Connection	Size	Cracking Pressure
RVS	S-316 Stainless steel	M-Male NPT	F-Female NPT	4-1/4 in.	15-0-217psig (0-15 bar) 60-217-580psig (15-40bar)

For NR11-6 ports,NR31-5 ports

CV SERIES
Check Valve

NAI-LOK®

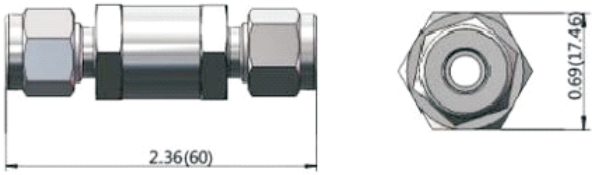
Features

- Working pressure up to 3,000 psig (206 bar)
- 316SS body materials as standard
- Temperature rating up to 375 °F(191°C) with standard Vtion O-ring.
- Variety of end connections include NAI-LOK tube fitting
- Male/FemaleNPT & ISO thread

Technical Data

Body Matenal	316 Stainless steel
Working Pressure	3000 psig(207 bar)
Spring	302SS
O-Ring	Viton (standard)
Poppet	316 Stainless steel
End Connections	NAI-LOK tube fitting or NPT thread
Inlet /Outlet Size	1/4"to 1"
Nominal Cracking Pressure	1 psig,5psig

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

CV	N	4	S	1
Basic Series	End Connection	Size	Material	Cracking Pressure
CV	N-NAI-LOK F-Female NPT M-Male NPT	4-1/4 in. 6-3/8 in. 8-1/2 in.	S-316 Stainless steel	1: 1 psi 5: 5 psi

Other end connection sizes please contact factory

FI SERIES

Micron Inline Filter

NAI-LOK®

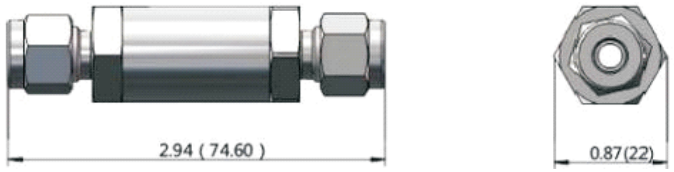
Features

- Gas and liquid filtration
- Standard micron filtering ranges
- Sintered Elements : 0.5, 2, 7,15, 60 and 90 micron
- Variety of end connections include NAI-LOK tube fitting male/female NPT&ISO thread

Technical Data

Body	316 Stainless steel
Spring	302SS
Gasket	Silver-plated 316SS/A240
Filter Elements	316SS sintered
Max.Operating Pressure	3000 psig @70°F(21°C)
Operating Temperature	20°F to 900°F(-28°C to 482°C)
End Connection	NAI-LOK tube fiting or NPT thread
Pore Size	15 μm

Dimension (mm)



Dimension drawings shown are for reference only.

Ordering Information

FI	N	4	S	15
Basic Series	End Connection	Size	Material	Pore Size
FI	N-NAI-LOK F-Female NPT M-Male NPT	4-1/4 in. 6-3/8 in. 8-1/2 in.	S-316 Stainless steel	15-15μm

Other end connection sizes please contact factory

QC SERIES

Quick Connection Valve

NAI-LOK®

Features

- Engineered to minimize spillage and air inclusion
- Available in a wide range of configurations,stem and body connectors
- Enable quick,easy connection with push-to-connect coupling designed for instrumentation
- Both shut-off when uncoupling

Technical Data

Matenial	316 Stainless steel
Max Working Pressure	3000 psig (207 bar)
Working Temperature	50°F to 150°F(10°C to 65°C)
Stem	316 Stainless steel
Poppet	316 Stainless stee
O.Ring	PTFE
End Connection	NAI-LOK tube fitting or NPT thread

Dimension (mm)

Dimension drawings shown are for reference only.

Ordering Information

QC	N	4	S
Basic Series	End Connection	Size	Material
QC	N-NAI-LOK F-Female NPT M-Male NPT	4-1/4 in. 6-3/8 in. 8-1/2 in.	S-316 Stainless steel

Other end connection sizes please contact factory

DIN/BS/CGA Connectors

Cylinder Connectors

NAI-LOK®

Features

- Stainless Steel 316
- Connect to acyiinder valve
- 1/4" NPT male connection
- Maximum working pressure 3000psig(207bar) standard

Germany (and most European countries)-DIN 477

Connector Type	Connector Thread	Gas or Gas Mixture	Remarks
DIN 477 No.1	W 21.8x1/14"LH	Hydrogen,Propane	Flammable
DIN 477 No.2	W 21.8"x1/14"LH	Propane	Flammable
DIN 477 No.3	Yoke	Acetylene	Flammable
DIN 477 No.3.1	M 24 x2"LH	Acetylene	Flammable
DIN 477 No.5	W1"x1/8"LH	Carbon Monoxide	Toxic
DIN 477 No.6	W 21.8x1/14"	Argon,Helium,Carbon Dioxide	Various
DIN 477 No.7	G 5/8"	Sulphur Dioxide	Toxic
DIN 477 No.8	W1"x1/8"	Boron Trichloride	Toxic
DIN 477 No.9	G 3/4"	Oxygen	Oxygen
DIN 477 No.10	W 24.32×1/14"RH	Nitrogen	Inerts
DIN 477 No.11	G 3/8"	Nitrous Oxide(>3l size)	Oxidizer
DIN 477 No.12	G 3/4"INT	Nitrous Oxide(<3 l size)	Oxidizer
DIN 477 No.13	G 5/8"INT	Air	Non Flammable
DIN 477 No.14	M 19 x 1.5 LH	Mixtures	Various

UK-BS 341

Connector Type	Connector Thread	Gas or Gas Mixture	Remarks
BS 341 No.2	G 5/8"LH	Acetylene	Flammable
BS 341 No.3	G 5/8"INT	Air,Argon,Neon,Nitrogen	Inerts
BS 341 No.3	G 5/8"INT	Oxygen	Oxidizer
BS 341 No.4	G 5/8"LH INT	Acetylene,Hydrogen	Flammable
BS 341 No.4	G 5/8"LH INT	Carbon Monoxide,Methane,Natural Gas	Flammable
BS 341 No.6	G 5/8"	Chlorine,Hydrogen Chloride	Toxic
BS 341 No.7	G 5/8"LH	Flammable Refrigerants	Flammable Refrigerants
BS 341 No.8	W 0.860"x14 TPI	Carbon Dioxide	Non Flammable
BS 341 No.10	G 1/2"	Ammonia	Toxic
BS 341 No.12	G 1/2"	Sulphur Dioxide	Toxic
BS 341 No.13	W 11/16"-20 TPI	Nitrous Oxide	Oxidizer
BS 341 No.14	G 3/8"	Hydrogen Cyanide,Nitric Oxide	Toxic
BS 341 No.15	G 3/8"LH	Carbonyl Sulphide,Hydrogen, Sulphide	Toxic

USA &Canada -CGA

Connector Type	Connector Thread	Gas or Gas Mixture	Remarks
CGA 110	G 5/8"LH	Acetylene	Flammable
CGA 170	G 5/8"INT	Air,Argon,Neon,Nitrogen	Inerts
CGA 180	G 5/8"INT	Oxygen	Oxidizer
CGA 240	G 5/8"LH INT	Acetylene,Hydrogen	Flammable
CGA 296	G 5/8"LH INT	Carbon Monoxide,Methane,Natural Gas	Flammable
CGA 300	G 5/8"	Chlorine,Hydrogen Chloride	Toxic
CGA 320	G 5/8"LH	Flammable Refrigerants	Flammable Refrigerants
CGA 326	W 0.860"x14 TPI	Carbon Dioxide	Non Flammable
CGA 330	G 1/2"	Ammonia	Toxic
CGA 346	G 1/2"	Sulphur Dioxide	Toxic
CGA 350	W 11/16"-20 TPI	Nitrous Oxide	Oxidizer
CGA 510	G 3/8"	Hydrogen Cyanide,Nitric Oxide	Toxic
CGA 540	G 3/8"LH	Carbonyl Sulphide,Hydrogen, Sulphide	Toxic
CGA 580	CGA 580	CGA 580	CGA 580
CGA 590	CGA 590	CGA 590	CGA 590
CGA 660	CGA 660	CGA 660	CGA 660
CGA 679	CGA 679	CGA 679	CGA 679
CGA 705	CGA 705	CGA 705	CGA 705

HPH SERIES

Metal Flexible Hose

NAI-LOK®

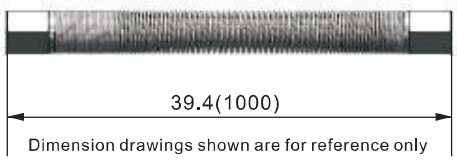
Features

- Vacuum and pasitive pressure applications.
- Size:1/4" to 1/2"
- Standard and custom length availabila.

Technical Data

Core Tube And Fitting Material	Size(mm)
Overbraid Material	316 Stainless steel / 304 Stainless steel
Working Pressure	4000 psig(276 bar)
Hose Size	1/4" to 1/2"
Working Temperature	65 °F to 400 °F(-53°C to 204°C)

Dimension (mm)



Dimension drawings shown are for reference only

Ordering Information

HPH	N	4	S	1	W
Basic Series	End Connection	Size	Material	Length	Option
HPH	N-NAI-LOK F-Female NPT M-Male NPT	4-1/4 in. 6-3/8 in. 8-1/2 in.	S-316 Stainless steel	1-1000mm 2-2000mm C-Customized length	W- With out protected spring (standard) 0-Without spring

Other end connection sizes please contact factory

TSSM Series
Super Clean Pipe & Tube

NAI-LOK®

Features

- BA- Our special cold working. optimum pass schedule and bright-annealing give very fine and lustrous smoothness and good anticorrosion.
- EP-Precision electropolishing bright , smooth and corrosion resistant surface, anticorrosion.
- HC -Hastelloy® C-276 is a low-carbon, nickel-chromium-molybdenum metal with exceptional corrosion resistance
- Size: 1/8 to 2-1/2 in. and 3 to 25 mm sizes
- Standards: ASTM A269/A632Marked to indicate size, material,specifications, and heat code

BA Grade
Bright - Annealed Pipe

EP Grade
Electropolished Pipe

Dimension (mm)

TUBE SIZE	OUTER DIAMETER OD(mm)	THICKNESS T	LENGTH
1/4"	6.35	1.0(0.89)	1M/2M/3M/6M
3/8"	9.53	1.0 (0.89)	
1/2"	12.7	1.0,1.24 (1.65)	
3/4"	19.05	1.65 (1.24)	
1"	25.4	1.65 (1.24)	
11/4"	31.8	1.65	
11/2"	38.1	1.65	
2"	50.8	1.65	
21/2"	63.5	1.65	
3"	76.2	1.65	
4"	101.6	2.11	

Ordering Information

Series	Material	Grade	Tube OD		Wall Thickness		Length
TSSM	SS-SS316 HC-Hastelloy	BA EP	3 6 8 10 12 14	1/8" 1/4" 3/8" 1/2" 3/4" 1"	035 039 049 065	0.035" 0.039" 0.049" 0.065"	4M 6M (standard) Cut Length

Other size,thickness or special material please contact factory

TSSM Series
Coil Tube

NAI-LOK®

Excellent Outer and Inner Surface, Extremely precise sizing, Consistant and Clean quality BA/EP coil tube.
Sizes available 1/8" OD to 3/4" OD, 6mm OD to 16mm OD

Coiled tubing makes long length tube runs possible without the need for joining fittings. This eliminates potential leak points and reduces installation time and costs. NAI-LOK stocks both seamless and hastelloy tube coils to meet the needs of petrochemical, CNG, geothermal, and flow measurement applications. Coiled tubing can be supplied as a loose coil or on wooden spools.

Length Capabilities

NAI-LOK can provide coiled tubing in long mill lengths that stretch over a mile, or in custom cut-to-length sections as short as fifty feet. Short, long, and everything in between—let us be your preferred source for coiled stainless steel tubing products.

OD	Wall	ID	Lbs./Ft.
1/16" (.063")	.010 .020	.043 .023	.0057 .0093
1/8" (.125")	.020 .028 .035	.085 .069 .055	.0220 .0290 .0341
1/4" (.250")	.035 .049 .065 .083	.180 .152 .120 .084	.0814 .1066 .1301 .1480
3/8" (.375")	.035 .049 .065	.305 .277 .245	.1288 .1726 .2180
1/2" (.500")	.035 .049 .065 .083	.430 .402 .370 .334	.1761 .2391 .3059 .3690
3/4" (.750")	.035 .049 .065 .109	.680 .652 .620 .532	.2780 .3717 .4818 .7560

Features

- Stainless steel is a reliable material
- It easy to maintain and install due to its corrosion-resistant properties.
- It also meet specifications met ASTM A269
- Easy to keep clean.
- Very rigid and will last a lifetime with proper care
- Application
- For Gas and Liquid distribution at HP requirement tubing/piping;
- Semiconductor, FPD, Solar Panel, Bio-Chemical, Pharmaceutical, Food Industry and etc.

Ordering Information

Material	Grade	Tube OD		Wall Thickness	Length
SS Hastelloy Monel Super Duplex Steel	BA EP	3 6 8 10 12 14	1/8" 1/4" 3/8" 1/2" 3/4"	0.6 0.89 1.24 0.89 1.24 0.89 1.24 1.65	100 Meter/roll Custom Length

Other size,thickness or special material please contact factory

ACCESSORIES

NAI-LOK®

Flashback Arrestors

Features

- For hydrogen and Acetylene
- Hydrogen: 50 psi (3.5 bar)
- Acetylene: 22 psi (1.5bar)
- Inlet & outlet connection: 1/4 Female NPT / OD
- Stainless steel 316 body

Sample Cylinder

Features

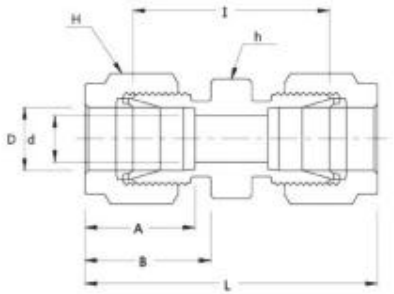
- Size from 10 to 3785 cm^3 (1 gal)
- Working pressure 3000 psig /5000 psig
- 316L stainless steel,Hastelloy,Monel,904L
- Double ended cylinder
- Size: 1/4,1/2

NU Series

Union

NAI-LOK®

Dimension



Connects Fractional Tubes

Part No.	Tube O.D. D(inch)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NU-2	1/8	2.28	7/16	7/16	12 7	15.24	22.35	35.56
NU-4	1/4	4.82	1/2	9/16	15.24	17.78	26.16	40.89
NU-6	3/8	7.11	5/8	11/16	16.76	19.3	30.22	44.95
NU-8	1/2	10.41	13/16	7/8	22.86	21.84	30.98	51.3
NU-12	3/4	15.74	1-1/16	1-1/8	24.38	21.84	33.27	53.59
NU-16	1	22.35	1-3/8	1-1/2	31.24	26.41	40.38	64.77
NU-20	1-1/4	27.69	1-3/4	1-7/8	41.15	38.86	48.00	92.20
NU-24	1-1/2	34.04	2-1/8	2-1/4	50.04	45.21	53.59	107.95
NU-32	2	45.97	2-3/4	3	67.56	62.74	74.68	149.35

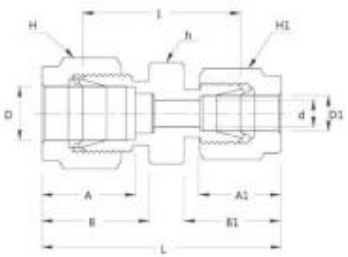
Connects Metric Tubes

Part No.	Tube O.D. D(inch)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NU-8M	8	6.4	15	16	16.2	18.6	28.2	43.2
NU-10M	10	7.9	18	19	17.2	19.5	31	46.2
NU-12M	12	9.5	22	22	22.8	22	31	51.2
NU-16M	16	12.7	24	25	24.4	22	31.8	52
NU-20M	20	15.9	30	32	26	22	34.8	55
NU-25M	25	21.8	35	38	31.3	26.5	40.4	65

NRU Series
Reducing Union

NAI-LOK®

Dimension



Connects Fractional Tubes

Part No.	Tube O.D.		d	Width Across Flat			A	A1	B	B1	l	L
	D(inch)	D1(inch)	(Min)	h(inch)	H (inch)	H1 (inch)						
NRU 4-2	1/4	1/8	2.28	1/2	9/16	7/16	15.24	12.7	17.78	15.24	24.63	38.6
NRU 6-2	3/8	1/8	2.28	5/8	11/16	7/16	16.76	12.7	19.3	15.24	26.92	40.89
NRU 6-4	3/8	1/4	4.82	5/8	11/16	9/16	16.76	15.24	19.3	17.78	28.44	43.18
NRU 8-2	1/2	1/8	2.28	13/16	7/8	7/16	22.86	12.7	21.84	15.24	28.44	45.21
NRU 8-4	1/2	1/4	4.82	13/16	7/8	9/16	22.86	15.24	21.84	17.78	29.46	46.99
NRU 8-6	1/2	3/8	7.11	13/16	7/8	11/16	22.86	16.76	21.84	19.3	30.98	48.51
NRU 12-4	3/4	1/4	4.82	1-1/16	1-1/8	9/16	24.38	15.24	21.84	17.78	31.75	49.27
NRU 12-6	3/4	3/8	7.11	1-1/16	1-1/8	11/16	24.38	16.76	21.84	19.3	33.27	50.8
NRU 12-8	3/4	1/2	10.41	1-1/16	1-1/8	7/8	24.38	22.86	21.84	21.84	33.27	53.59
NRU 16-8	1	1/2	10.41	1-3/8	1-1/2	7/8	31.24	22.86	26.41	21.84	39.5	63.24
NRU 16-12	1	3/4	15.74	1-3/8	1-1/2	1-1/8	31.24	24.38	26.41	21.84	39	62.73

Connects Metric Tubes

Part No.	Tube O.D.		d	Width Across Flat			A	A1	B	B1	l	L
	D(inch)	D1(inch)	(Min)	h(inch)	H (inch)	H1 (inch)						
NRU 8M-6M	8	6	4.8	15	16	14	16.2	15.3	18.6	17.7	27.4	42.3
NRU 12M-6M	12	6	4.8	22	22	14	22.8	15.3	22	17.7	29.5	47
NRU 12M-8M	12	8	6.4	22	22	16	22.8	16.2	22	18.6	30.2	47.8
NRU 16M-12M	16	12	9.5	24	25	22	24.4	22.8	22	22	31.8	52

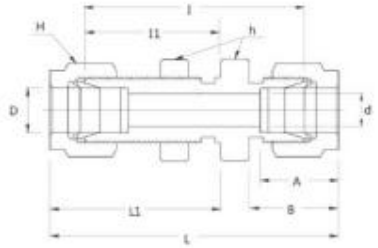
Connects Metric Tubes To Fractional Tubes

Part No.	Tube O.D.		d	Width Across Flat			A	A1	B	B1	l	L
	D(inch)	D1(inch)	(Min)	h(inch)	H (inch)	H1 (inch)						
NRU 4M-4	4	1/4	2.4	14	12	14.3	13.7	15.3	16.1	17.7	25.4	39.4
NRU 6M-2	6	1/8	2.4	14	14	11.1	15.3	12.8	17.7	15.2	24.6	38.5
NRU 6M-4	6	1/4	4.8	14	14	14.3	15.3	15.3	17.7	17.7	26.2	41
NRU 8M-4	8	1/4	4.8	15	16	14.3	16.2	15.3	18.6	17.7	27.4	42.3
NRU 10M-2	10	1/8	2.4	18	19	11.1	17.2	12.8	19.5	15.2	27.7	41.8
NRU 10M-4	10	1/4	4.8	18	19	14.3	17.2	15.3	19.5	17.7	29.5	44.5
NRU 10M-6	10	3/8	7.1	18	19	17.5	17.2	16.9	19.5	19.2	31	45.9
NRU 12M-6	12	3/8	7.1	22	22	17.5	22.8	16.9	22	19.2	31	48.4
NRU 12M-8	12	1/2	9.5	22	23	22.2	22.8	22.8	22	22	31	51.2
NRU 20M-12	20	3/4	15.9	30	32	28.6	26	24.4	22	22	34.8	54.9

NBHU Series
Bulkhead Union

NAI-LOK®

Dimension



Connects Fractional Tubes

Part No.	Tube O.D.		Width Across Flat		A	B	l	l1	L	L1
	D(inch)	D1(inch)	h(inch)	H (inch)						
NBHU-2	1/8	2.28	1/2	7/16	12.7	15.24	38.1	24.63	51.3	31.24
NBHU-4	1/4	4.82	5/8	9/16	15.24	17.78	42.92	26.16	57.65	33.52
NBHU-6	3/8	7.11	3/4	11/16	16.76	19.3	47.49	29.46	63.23	36.83
NBHU-8	1/2	10.41	15/16	7/8	22.86	21.84	50.8	31.75	71.12	41.91
NBHU-12	3/4	15.74	1-3/16	1-1/8	24.38	21.84	58.67	37.33	78.99	47.49
NBHU-16	1	22.35	1-5/8	1-1/2	31.24	26.41	71.37	45.21	95.75	57.4

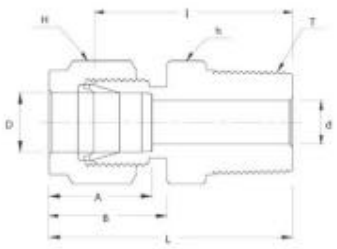
Connects Metric Tubes

Part No.	Tube O.D.		Width Across Flat		A	B	l	l1	L	L1
	D(inch)	D1(inch)	h(inch)	H (inch)						
NBHU-8M	8	6.4	18	17.5	16.2	18.6	46	28.6	61	36.1
NBHU-10M	10	7.9	22	22	17.2	19.5	48.5	29.46	63.7	37
NBHU-12M	12	9.5	24	23.8	22.8	22	50.8	31.8	71	41.9
NBHU-16M	16	12.7	27	27	24.4	22	52.3	32.5	72.5	42.6
NBHU-20M	20	15.9	35	35	26	22	64.3	42.9	84.5	53
NBHU-25M	25	21.8	41.3	41.3	31.3	26.5	71.4	45.21	95.9	57.5

NMC Series
Male Connector

NAI-LOK®

Dimension



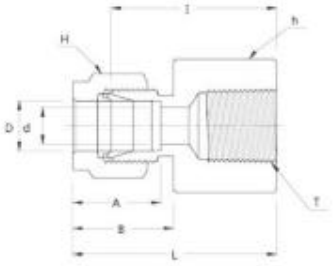
Connects Fractional Tubes To Female NPT Thread

Part No.	Tube O.D. D(inch)	T (NPT)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NMC 2-2N	1/8	1/8	2.28	7/16	7/16	12.7	15.24	23.87	30.48
NMC 2-4N	1/8	1/4	2.28	9/16	7/16	12.7	15.24	28.95	35.56
NMC 2-6N	1/8	3/8	2.28	11/16	7/16	12.7	15.24	29.21	35.81
NMC 2-8N	1/8	1/2	2.28	7/8	7/16	12.7	15.24	35.56	42.16
NMC 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	25.4	32.76
NMC 4-4N	1/4	1/4	4.82	9/16	9/16	15.24	17.78	30.48	37.84
NMC 4-6N	1/4	3/8	4.82	11/16	9/16	15.24	17.78	30.98	38.35
NMC 4-8N	1/4	1/2	4.82	7/8	9/16	15.24	17.78	37.33	44.7
NMC 4-12N	1/4	3/4	4.82	1-1/16	9/16	15.24	17.78	38.86	46.22
NMC 6-2N	3/8	1/8	4.82	5/8	11/16	16.76	19.3	27.94	35.3
NMC64N	3/8	1/4	7.11	5/8	11/16	16.76	19.3	32.51	39.87
NMC 6 6N	3/8	3/8	7.11	11/16	11/16	16 76	19.3	32.51	39.87
NMC 6-8N	3/8	1/2	711	7/8	11/16	16.76	19.3	38.86	46.22
NMC 6-12N	3/8	3/4	7.11	1-1/16	11/16	16.76	19.3	40.38	47.75
NMC 8-2N	1/2	1/8	4.82	13/16	7/8	22.86	21.84	28.7	38.86
NMC 8-4N	1	1/4	7.11	13/16	7/8	22.86	21.84	33.27	43.43
NMC 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	33.27	43.43
NMC 8-8N	1/2	1/2	10.41	7/8	7/8	22.86	21.84	38.86	49.02
NMC 8-12N	1/2	3/4	10.41	1-1/16	7/8	22.86	21.84	40.38	50.54
NMC 8-16N	1/2	1	10.41	1-3/8	7/8	22.86	21.84	46.99	57.15
NMC 12-8N	3/4	1/2	11.93	1-1/16	1-1/8	24.38	21.84	40.38	50.54
NMC 12-12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	40.38	50.54
NMC 12-16N	3/4	1	15.74	1-3/8	1-1/8	24.38	21.84	46.99	57.15
NMC 16-8N	1	1/2	11.93	1-3/8	1-1/2	31.24	26.41	45.21	57.4
NMC 16-12N	1	3/4	15.74	1-3/8	1-1/2	31.24	26.41	45.21	57.4
NMC 16-16N	1	1	22.35	1-3/8	1-1/2	31.24	26.41	50.03	62.23

NFC Series
Female Connector

NAI-LOK®

Dimension



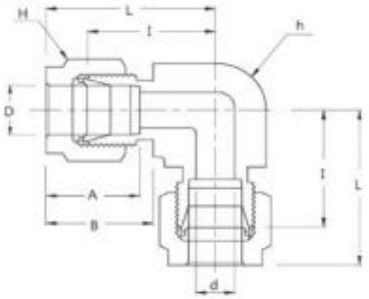
Connects Fractional Tubes To Male NPT Thread

Part No.	Tube O.D. D(inch)	T (NPT)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	L	K
NFC 2-2N	1/8	1/8	2.28	9/16	9/16	12.7	15.24	22.09	28.7
NFC 2-4N	1/8	1/4	2.28	3/4	3/4	12.7	15.24	26.92	33.52
NFC 4-2N	1/4	1/8	4.82	9/16	9/16	15.24	17.78	23.87	31.24
NFC 4-4N	1/4	1/4	4.82	3/4	3/4	15.24	17.78	28.44	35.81
NFC 4-6N	1/4	3/8	4.82	7/8	7/8	15.24	17.78	30.22	37.59
NFC 4-8N	1/4	1/2	4.82	1-1/16	1-1/16	15.24	17.78	35.05	42.41
NFC 6-2N	3/8	1/8	7.11	5/8	5/8	16.76	19.3	25.4	32.76
NFC 6-4N	3/8	1/4	7.11	3/4	3/4	16.76	19.3	30.22	37.59
NFC 6-6N	3/8	3/8	7.11	7/8	7/8	16.76	19.3	31.75	39.11
NFC 6-8N	3/8	1/2	7.11	1-1/16	1-1/16	16.76	19.3	36.57	43.94
NFC 6-12N	3/8	3/4	7.11	1-5/16	1-5/16	16.76	19.3	40.38	47.75
NFC 8-4N	1/2	1/4	10.41	13/16	13/16	22.86	21.84	30.22	40.38
NFC 8-6N	1/2	3/8	10.41	7/8	7/8	22.86	21.84	31.75	41.91
NFC 8-8N	1/2	1/2	10.41	1-1/16	1-1/16	22.86	21.84	36.57	46.73
NFC 8-12N	1/2	3/4	10.41	1-5/16	1-5/16	22.86	21.84	38.1	48.26
NFC 12-8N	3/4	1/2	15.74	1-1/16	1-1/16	24.38	21.84	36.57	46.73
NFC 12-12N	3/4	3/4	15.74	1-5/16	1-5/16	24.38	21.84	38.1	48.26
NFC 16-12N	1	3/4	22.35	1-3/8	1-3/8	31.24	26.41	41.14	53.34
NFC 16-16N	1	1	22.35	1-5/8	1-5/8	31.24	26.41	50.03	62.23

NUE Series
Union Elbow

NAI-LOK®

Dimension



Connects Fractional Tubes

Part No.	Tube O.D. D(inch)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	l	L
NUE-2	1/8	2.28	3/8	7/16	12 7	15.24	15.74	22.35
NUE4	1/4	4.82	1/2	9/16	15.24	17.78	20.1	27.4
NUE-6	3/8	7.11	5/8	11/16	16.76	19.3	23.11	30.48
NUE-8	1/2	10.41	13/16	7/8	22.86	21.84	25.9	36.06
NUE-12	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87
NUE-16	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02
NUE-20	1-1/4	27.69	1-11/16	1-7/8	41.15	38.86	44.45	66.55
NUE-24	1-1/2	34.04	2	2-1/4	50.04	45.21	50.80	77.98
NUE-32	2	45.97	2-3/4	3	67.56	62.74	69.85	107.19

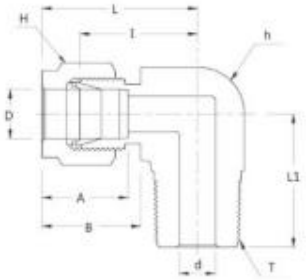
Connects Metric Tubes

Part No.	Tube O.D. D(inch)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	l	L
NUE-6M	6	4.8	12.7	14	15.3	17.7	19.6	27
NUE-8M	8	6.4	15.9	16	16.2	18.6	22.4	29.9
NUE-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
NUE-12M	12	9.5	20.6	22	22.8	22	25.9	36
NUE-16M	16	12.7	23.8	25	24.4	22	27.9	38
NUE-20M	20	15.9	34.9	32	26	22	34.5	44.6
NUE-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1

NME Series
Male Elbow

NAI-LOK®

Dimension



Connects Fractional Tubes To Female NPT Thread

Part No.	Tube O.D. D(inch)	T (NPT)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	l	L	L1
NME 2-2N	1/8	1/8	2.28	1/2	7/16	12.7	15.24	18	24.3	18.8
NME 2-4N	1/8	1/4	2.28	1/2	7/16	12.7	15.24	18	24.3	23.36
NME 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	18.79
NME 4-4N	1/4	1/4	4.82	1/2	9/16	15.24	17.78	19.55	26.92	23.36
NME 4-6N	1/4	3/8	4.82	5/8	9/16	15.24	17.78	22.35	29.71	26.16
NME 4-8N	1/4	1/2	4.82	13/16	9/16	15.24	17.78	24.38	31.75	33.02
NME 6-2N	3/8	1/8	4.82	5/8	11/16	16.76	19.3	23.11	30.48	20.82
NME 6-4N	3/8	1/4	7.11	5/8	11/16	16.76	19.3	23.11	30.48	25.4
NME 6-6N	3/8	3/8	7.11	5/8	11/16	16.76	19.3	23.87	31.24	26.16
NME 6-8N	3/8	1/2	7.11	13/16	11/16	16.76	19.3	25.9	33.27	33.02
NME 6-12N	3/8	3/4	7.11	1-1/16	11/16	16.76	19.3	29.71	37.08	36.83
NME 8-4N	1/2	1/4	7.11	13/16	7/8	22.86	21.84	25.9	36.06	28.19
NME 8-6N	1/2	3/8	9.65	13/16	7/8	22.86	21.84	25.9	36.06	28.19
NME 8-8N	1/2	1/2	10.41	13/16	7/8	22.86	21.84	25.9	36.06	33.02
NME 8-12N	1/2	3/4	10.41	1-1/16	7/8	22.86	21.84	29.71	39.87	36.83
NME 12-8N	3/4	1/2	11.93	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
NME 12-12N	3/4	3/4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87	36.83
NME 16-12N	1	3/4	15.74	1-3/8	1-1/2	31.24	26.41	36.83	49.02	41.65
NME 16-16N	1	1	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	46.48

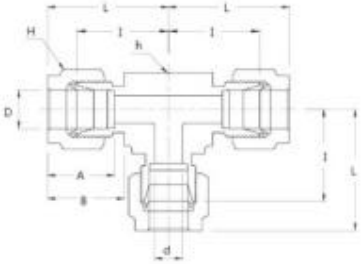
Connects Fractional Tubes To Female NPT Thread

Part No.	Tube O.D. D(inch)	T (NPT)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	l	L	L1
NME 4M-4N	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
NME 6M-2N	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27	18.8
NME 6M-4N	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27	23.4
NME 6M-6N	6	3/8	4.8	15.9	14	15.3	17.7	22.4	29.8	26.2
NME 6M-8N	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33
NME 8M-2N	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
NME 8M-4N	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
NME8M-6N	8	3/8	6.4	15.9	16	16.2	18.6	23.1	30.6	26.2
NME 8M-8N	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33
NME 10M-8N	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33
NME 12M-4N	12	1/4	7.1	20.6	22	22.8	22	25.9	36	28.2
NME 12M-6N	12	3/8	9.5	20.6	22	22.8	22	25.9	36	28.2
NME 12M-8N	12	1/2	9.5	20.6	22	22.8	22	25.9	36	33
NME 12M-12N	12	3/4	9.5	27	22	22.8	22	29.7	39.8	36.8
NME 16M-8N	16	1/2	11.9	23.8	25	24.4	22	27.9	38	35.1
NME 16M-12N	16	3/4	12.7	27	25	24.4	22	29.7	39.8	36.8

NUT Series
Union Tee

NAI-LOK®

Dimension



Connects Fractional Tubes

Part No.	Tube O.D. D(inch)	d (Min)	Width Across Flat h(inch)	H (inch)	A	B	I	L
NUT4	1 / 4	4.82	1 / 2	9/16	15.24	17.78	20.1	27.4
NUT-6	3 / 8	7.11	5 / 8	11/16	16.76	19.3	23.11	30.48
NUT-8	1 / 2	10.41	13/16	7 / 8	22.86	21.84	25.9	36.06
NUT-12	3 / 4	15.74	1-1/16	1-1/8	24.38	21.84	29.71	39.87
NUT-16	1	22.35	1 - 3 / 8	1-1/2	31.24	26.41	36.83	49.02
NUT-20	1-1/4	27.69	1-11/16	1-7/8	41.15	38.86	44.45	66.55
NUT-24	1-1/2	34.04	2	2-1/4	50.04	45.21	50.80	77.98
NUT-32	2	45.97	2-3/4	3	67.56	62.74	69.85	107.19

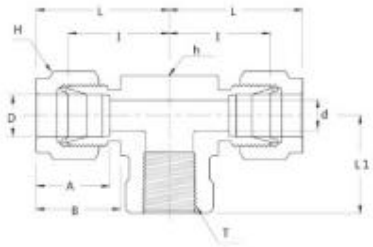
Connects Metric Tubes

Part No.	Tube O.D. D(inch)	d (Min)	Width Across Flat h(inch)	H (inch)	A	B	I	L
NUT-8M	8	6.4	15.9	16	16.2	18.6	22.4	29.9
NUT-10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
NUT-12M	12	9.5	20.6	22	22.8	22	25.9	36
NUT-16M	16	12.7	25.4	25	24.4	22	28.7	38.8
NUT-20M	20	15.9	34.9	32	26	22	34.5	44.6
NUT-25M	25	21.8	34.9	38	31.3	26.5	36.8	49.1

NFBT Series
Female Branch Tee

NAI-LOK®

Dimension



Connects Fractional Tubes

Part No.	Tube O.D. D(inch)	T (NPT)	d (Min)	Width Across Flat h(inch)	H (inch)	A	B	I	L	L1
NFBT 4-2N	1/4	1/8	4.82	1/2	9/16	15.24	17.78	19.55	26.92	19.05
NFBT4-4N	1/4	1/4	4.82	11/16	9/16	15.24	17.78	22.35	29.71	22.35
NFBT 6-4N	3/8	1/4	7.11	11/16	11/16	16.76	19.3	23.87	31.24	22.35
NFBT 6-6N	3/8	3/8	7.11	13/16	11/16	16.76	19.3	25.9	33.27	22.35
NFBT 6-8N	3/8	1/2	7.11	1	11/16	16.76	19.3	28.7	36.07	28.45
NFBT8-4N	1/2	1/4	10.41	13/16	7/8	22.86	21.84	25.9	36.06	22.35
NFBT 8-6N	1/2	3/8	10.41	13/16	7/8	22.86	21.84	25.9	36.06	22.35
NFBT 8-8N	1/2	1/2	10.41	1	7/8	22.86	21.84	28.7	38.86	28.44
NFBT 12-12N	3/4	3/4	15.74	1-3/8	1-1/8	24.38	21.84	34.54	44.7	31.75
NFBT 16-12N	1	3/4	22.35	1-3/8	1-1/2	31.24	26.41	36.83	49.02	31.75
NFBT 16-16N	1	1	22.35	1-11/16	1-1/2	31.24	26.41	41.4	53.59	38.1

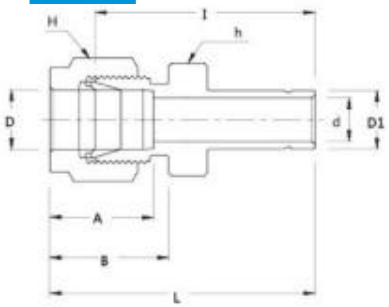
Connects Metric Tubes To Male NPT Thread

Part No.	Tube O.D. D(inch)	T (NPT)	d (Min)	Width Across Flat h(inch)	H (inch)	A	B	I	L	L1
NFBT 6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.4
NFBT 6M-6N	6	3/8	4.8	20.63	14	15.3	17.7	24.4	31.7	22.4
NFBT6M-8N	6	1/2	4.8	25.4	14	15.3	17.7	27.2	34.5	28.4
NFBT 8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	22.4	29.9	19
NFBT 8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.4
NFBT8M-6N	8	3/8	6.4	20.63	16	16.2	18.6	25.2	32.4	22.4
NFBT8M-8N	8	1/2	6.4	25.4	16	16.2	18.6	28	35.2	28.4
NFBT 10M-4N	10	1/4	7.9	20.63	19	17.2	19.5	25.9	33.5	22.4
NFBT 10M-6N	10	3/8	7.9	20.63	19	17.2	19.5	25.9	33.3	22.4
NFBT 10M-8N	10	1/2	9.5	25.4	19	17.2	19.5	26.2	33.6	22.4
NFBT 12M-4N	12	1/4	9.5	20.63	22	22.8	22	25.9	36	22.4
NFBT 12M-6N	12	3/8	9.5	20.63	22	22.8	22	25.9	36	22.4
NFBT12M-8N	12	1/2	9.5	25.4	22	22.8	22	29.7	40	28.4

NR Series
Reducer

NAI-LOK®

Dimension



Connects Fractional Tubes To Fractional NAI-LOK Port

Part No.	Tube O.D. D(inch)	Tube O.D. D1(inch)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NR2-2	1/8	1/8	2.03	7/16	7/16	12.7	15.24	26.92	33.52
NR2-4	1/8	1/8	2.28	7/16	7/16	12.7	15.24	29.46	36.06
NR2-6	1/8	3/8	2.28	7/16	7/16	12.7	15.24	30.98	37.59
NR2-8	1/8	1/2	2.28	9/16	7/16	12.7	15.24	37.59	44.19
NR4-2	1/4	1/8	2.03	1/2	9/16	15.24	17.78	29.46	36.83
NR4-4	1/4	1/4	4.82	1/2	9/16	15.24	17.78	31.75	39.11
NR4-6	1/4	3/8	4.82	1/2	9/16	15.24	17.78	33.27	40.64
NR4-8	1/4	1/2	4.82	9/16	9/16	15.24	17.78	38.86	46.22
NR4-12	1/4	3/4	4.82	13/16	9/16	15.24	17.78	41.4	47.75
NR6-4	3/8	1/4	4.82	5/8	11/16	16.76	19.3	34.03	41.4
NR6-6	3/8	3/8	7.11	5/8	11/16	16.76	19.3	35.81	43.18
NR6-8	3/8	1/2	7.11	5/8	11/16	16.76	19.3	41.14	48.51
NR6-12	3/8	3/4	7.11	13/16	11/16	16.76	19.3	42.92	50.29
NR8-4	1/2	1/4	4.82	13/16	7/8	22.86	21.84	34.79	44.95
NR8-6	1/2	3/8	7.11	13/16	7/8	22.86	21.84	36.57	46.73
NR8-8	1/2	1/2	9.9	13/16	7/8	22.86	21.84	42.16	52.32
NR8-12	1/2	3/4	10.41	13/16	7/8	22.86	21.84	43.68	53.84
NR8-16	1/2	1	10.41	1-1/16	7/8	22.86	21.84	50.03	60.19
NR12-8	3/4	1/2	9.9	1-1/16	1-1/8	24.38	21.84	44.45	54.61
NR12-1	3/4	1	15.74	1-1/16	1-1/8	24.38	21.84	52.32	62.48

Connects Metric Tubes ToMetric NAI-LOK Port

Part No.	Tube O.D. D(inch)	Tube O.D. D1(inch)	d (Min)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NR 6M-8M	6	8	4.8	14	14	15.3	17.7	32.5	39.9
NR 6M-10M	6	10	4.8	14	14	15.3	17.7	33.3	40.7
NR 6M-12M	6	12	4.8	14	14	15.3	17.7	38.9	46.3
NR 8M-6M	8	6	4.6	15	16	16.2	18.6	32.8	40.3
NR 8M-10M	8	10	6.4	15	16	16.2	18.6	34.5	42
NR 8M-12M	8	12	6.4	15	16	16.2	18.6	40.1	47.6
NR 10M-6M	10	6	4.6	18	19	17.2	19.5	34.8	42.4
NR 10M-8M	10	8	6.4	18	19	17.2	19.5	35.8	43.4
NR 10M-12M	10	12	7.9	18	19	17.2	19.5	42.2	49.8
NR 12M-6M	12	6	4.6	22	22	22.8	22	34.8	44.9
NR 12M-8M	12	8	6.4	22	22	22.8	22	35.8	45.9
NR 12M-10M	12	10	7.7	22	22	22.8	22	36.6	46.7
NR 12M-16M	12	16	9.5	22	22	22.8	22	43.7	53.8
NR 16M-12M	16	12	9.1	24	25	24.4	22	42.9	53
NR 20M-16M	20	16	12.7	30	32	26	22	47.8	57.9

NP Series
Plug

NAI-LOK®

Fractional

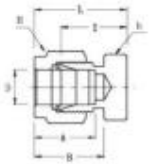
Part No.	Tube O.D. D(inch)	Width Across Flat H (inch)	Part No.	Tube O.D. D(inch)	Width Across Flat H (inch)
NP-2	1/8	7/16	NP-8	1/2	7/8
NP-4	1/4	9/16	NP-12	3/4	1-1/8
NP-6	3/8	11/16	NP-16	1	1-1/2

NC Series
Cap

Connects Caps End of Fractional Tubes

Part No.	Tube O.D. D(inch)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NC-4	1/4	1/2	9/16	15.24	17.78	16.00	23.36
NC-6	3/8	5/8	11/16	16.76	19.30	18.28	25.65
NC-8	1/2	13/16	7/8	22.86	21.84	19.05	29.21
NC-12	3/4	1-1/16	1-1/8	24.38	21.84	21.33	31.49
NC-16	1	1-3/8	1-1/2	31.24	26.41	26.16	38.35

Dimension



Connects Metric Tubes

Part No.	Tube O.D. D(inch)	Width Across Flat h(inch)	Width Across Flat H (inch)	A	B	I	L
NC-4M	4	12	12	13.7	16.1	14.7	21.3
NC-6M	6	14	14	15.3	17.7	15.7	23.1
NC-8M	8	15	16	16.2	18.6	17.0	24.5
NC-10M	10	18	18	17.2	19.5	19.0	26.6
NC-12M	12	22	22	22.8	22.0	19.0	29.1
NC-16M	16	24	25	24.4	22.0	19.8	29.9
NC-20M	20	30	32	26.0	22.0	23.9	34.0
NC-25M	25	35	38	31.3	26.5	26.2	38.5

NN Series
Nut

NAI-LOK®

Fractional

Part No.	Tube O.D. (inch)	H (inch)	L
NN-2	1/8	7/16	11.93
NN-4	1/4	9/16	12.7
NN-6	3/8	11/16	14.22
NN-8	1/2	7/8	17.52
NN-12	3/4	1-1/8	17.52
NN-16	1	1-1/2	20.6

Metric

Part No.	Tube O.D. (inch)	H (inch)	L
NN-4M	4	12	11.9
NN-6M	6	14	12.7
NN-8M	8	16	13.5
NN-10M	10	19	15.1
NN-12M	12	22	17.4
NN-16M	16	25	17.4
NN-18M	18	30	17.4
NN-20M	20	32	17.4
NN-22M	22	32	17.4
NN-25M	25	38	20.6

NFS SERIES
Ferrule Set

Fractional

Part No.	Tube O.D.(inch)
NFS-2	1/8
NFS-4	1/4
NFS-6	3/8
NFS-8	1/2
NFS-12	3/4
NFS-16	1

Metric

Part No.	Tube O.D. (inch)	Part No.	Tube O.D. (inch)
NFS-4M	4	NFS-16M	16
NFS-6M	6	NFS-18M	18
NFS-8M	8	NFS-20M	20
NFS-10M	10	NFS-22M	22
NFS-12M	12	NFS-25M	25

NHN SERIES
Hex Nipple

Part No.	Pipe Size ((inch)
NHN-4	1/4
NHN-8	1/2
NHN-12	3/4
NHN-16	1

NMP SERIES
Male Plug

Part No.	Pipe Size ((inch)
NMP4	1/4

Tube Support

NAI-LOK®

- 316 / 304 stainless steel
- Standard instrumentation tubing
- 1/8 to 2 in. and 3 to 25 mm sizes
- Pipes of Steel, Stainless Steel, Exotic Materials like Monel, Hastelloy, Inconel, Titanium can be used.

Bolted Plastic Clamp Supports

- Tube clamps available in Polypropylene Plastic body with Steel, SS 304, SS 316 plates & bolts.
- W.P. range up to 1500 PSI (100 BAR) for application in Steel / stainless steel piping system
- These Polypropylene PP Pipe – Tube clamps are available along with multilayers, welding plate, rail Nut,construction types, rubber Inlay types & many more. There are countless mounting options

Aluminium Tube Clamps

- Aluminum Type Tube Pipe clamps are normally used for high temprature installations of more than 1000 degree Celsius with Pressure ranging from 1500 PSI (100 BAR) and up to 8000 PSI (600 BAR)

Mounting Rail(Stainless steel C Steel)

- Rail nuts can be added or removed anywhere along the rail span
- Length: 1 Meter /pcs, Custom length
- Stainless steel 304

Ordering Information

TC	PC	SS304	1/4"
Basic Series	Body Material	Plates & Bolts	Size
TC=Tube Clamp CS=C Steel	PC=Plastic Clamp AT=Aluminium Clamp SC=Stainless steel C Steel	SS304 SS316	1/8 to 2 in (3 to 25 mm)