

H-400	General purpose fixed cracking pressure check valve (MAWP 3000 psig)
H-400 HP	High-performance fixed cracking pressure check valve (MAWP 6000 psig)
H-400 CNG	ECE R110 Approved for the CNG / NGV fixed cracking pressure check valve (MAWP 3770 psig)
H-400 OP	Compact one-piece fixed cracking pressure check valve (MAWP 3000 psigs)
H-400 OPA	One-piece adjustable cracking pressure check valve (MAWP 3000 psig)
H-400 A	Adjustable cracking pressure check valve (MAWP 3000 psig)



## **FEATURES**

- 316 St.St. or brass body construction
- Moderate-Pressure Characteristics up to 3000 psi (206 bar)
- Compact design
- Varying fixed cracking-pressure springs
- HAM-LET LET-LOK<sup>®</sup>, Male & Female NPT, and HTC<sup>®</sup> Face-Seal Bead Ends.

# MATERIALS OF CONSTRUCTION for sizes 1/8"-1/2"

Item No.		Components	Qty.	Valve Body Material
1		*Body	1	St.St. 316
2		*O-ring	1	Fluorocarbon FKM
3		*Poppet	1	St.St. 316
	А	*Spring 1/3 psi	1	St.St. 304
4	В	*Spring 3 psi	1	St.St. 304
4	С	*Spring 10 psi	1	St.St. 304
	D	*Spring 25 psi	1	St.St. 304
5		*End	1	St.St. 316
	Lubrican	t	Silicon	e and PTFE based

\*Wetted parts

#### **GENERAL**

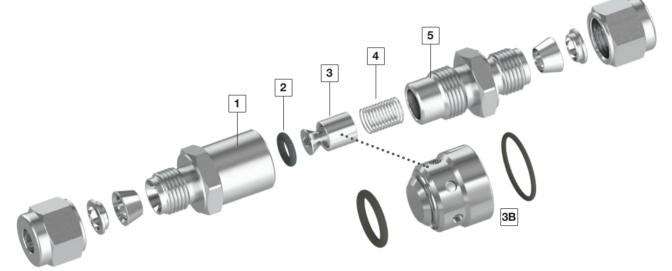
The H-400 Series is a compact design for instrumentation panels and systems, which provides an accurate operating point. H-400 valves are normally closed. When differential pressure between the inlet and outlet is higher than the set pressure of the spring, the loaded poppet will move backwards and will enable a free passage of flow through the valve.

For vacuum applications please select H-400HP series.

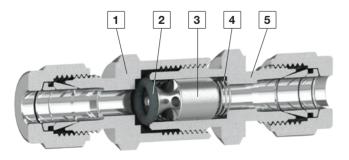
#### MATERIALS OF CONSTRUCTION for sizes 3/4"-1"

Item No.		Components Qty.		Valve Body Material
1		*Body	1	St.St. 316
2		*O-ring	1	Fluorocarbon FKM
3B		*Poppet	1	St.St. 316
	А	*Spring 1/3 psi	1	St.St. 304
4	В	*Spring 3 psi	1	St.St. 304
4	С	*Spring 10 psi	1	St.St. 304
	D	*Spring 25 psi	1	St.St. 304
5		*End	1	St.St. 316
6 Lubrican		*Upper O-ring	1	Fluorocarbon FKM
		t	Silicone and PTFE based	

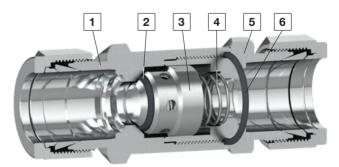
\*Wetted parts



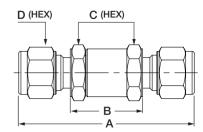
Sizes 1/8"-1/2"



Sizes 3/4"-1"



# STANDARD CONFIGURATION DIMENSIONS



Mahaa Taraa	Connection / Size		Cv	A		В		С		D	
Valve Type	Inlet	Outlet	CV	mm	in	mm	in	mm	in	mm	in
H-400	1/8'' LET-LOK®	1/8'' LET-LOK®	0.1	56.0	2.20	25.3	1.00	15.88	5/8	11.11	7/16
H-400	1/4" LET-LOK®	1/4" LET-LOK®	0.47	60.5	2.38	25.0	0.98	15.88	5/8	14.28	9/16
H-400	6 MM LET-LOK®	6 MM LET-LOK®	0.47	60.5	2.38	25.0	0.98	15.88	5/8	14.00	
H-400	3/8'' LET-LOK®	3/8'' LET-LOK®	1.47	63.5	2.50	24.9	0.98	17.46	11/16	17.46	11/16
H-400	8 MM LET-LOK®	8 MM LET-LOK®	1.47	63.3	2.49	24.9	0.98	17.5	11/16	16.00	
H-400	10 MM LET-LOK®	10MM LET-LOK®	1.68	64.0	2.52	24.9	0.98	17.46	11/16	19.00	
H-400	1/2'' LET-LOK®	1/2" LET-LOK®	1.68	77.0	3.03	32.6	1.28	23.8	15/16	22.23	7/8
H-400	12 MM LET-LOK®	12 MM LET-LOK®	1.68	77.0	3.03	32.8	1.28	23.8	15/16	22.00	
H-400	3/4'' LET-LOK®	3/4'' LET-LOK®	4.48	88.5	3.48	44.4	1.75	28.6	1-1/8	28.60	1-1/8
H-400	1" LET-LOK®	1" LET-LOK®	4.48	120	4.72	67.2	2.65	34.9	1-3/8	38.10	1-1/2
H-400	1" LET-LOK <sup>®</sup> High flow	1" LET-LOK <sup>®</sup> High flow	7.9	120	4.72	67.2	2.65	41.28	1-5/8	38.10	1-1/2
H-410	1/8'' Female NPT	1/8" Female NPT	0.1	44.0	1.73	25.4	1.00	15.88	5/8		
H-410	1/4'' Female NPT	1/4" Female NPT	0.47	52.5	2.07	28.0	1.10	19.05	3/4		
H-410	3/8'' Female NPT	3/8" Female NPT	1.47	51.5	2.03	34.1	1.34	22.23	7/8		
H-410	1/2" Female NPT	1/2" Female NPT	1.68	76.5	3.01	43.4	1.71	28.6	1-1/8		
H-410	3/4'' Female NPT	3/4" Female NPT	4.48	86.0	3.39	56.0	2.20	34.9	1-3/8		
H-410	1" Female NPT	1'' Female NPT	4.48	107	4.21	73.0	2.87	41.28	1-5/8		
H-410	1" Female NPT High flow	1" Female NPT High flow	7.9	107	4.21	67.2	2.65	41.28	1-5/8		
H-480	1/8'' Male NPT	1/8" Male NPT	0.1	44.3	1.74	24.9	0.98	15.88	5/8		
H-480	1/4'' Male NPT	1/4" Male NPT	0.47	55.7	2.19	25.0	0.98	19.05	3/4		
H-480	3/8'' Male NPT	3/8" Male NPT	1.47	53.1	2.09	24.9	0.98	17.46	11/16		
H-480	1/2" Male NPT	1/2" Male NPT	1.68	70.4	2.77	32.6	1.28	23.8	15/16		
H-480	1/4" Male Face Seal	1/4" Male Face Seal	0.47	56.4	2.22	24.9	0.98	15.88	5/8		
H-480	1/2"Male Face Seal	1/2" Male Face Seal	1.68	68.2	2.69	32.6	1.28	23.8	15/16		
H-485	1/8''Male NPT	1/8" Female NPT	0.1	44.3	1.74	25.4	1.0	15.88	5/8		
H-485	1/4''Male NPT	1/4" Female NPT	0.47	53.7	2.11	27.3	1.07	19.05	3/4		

Dimensions are for reference only and are subject to change.





## **CRACKING PRESSURE**

The differential pressure between the inlet and outlet, at which an initial flow is passing through the valve.

## **RESEAL PRESSURE**

The differential pressure between the outlet and inlet, at which no flow is passing through the valve.

# 1 Lubricant-Free cleaned valves

have higher re-seal pressure.

#### **O-RINGS\***

O-ring Material	Temperature Rating °F (°C)
Buna N	-10 to 250 (-23 to 121)
EPDM	-50 to 300 (-45 to 148)
Fluorocarbon FKM	-10 to 375 (-23 to 190)
Perfluor	-15 to 500 (-26 to 260)
Polychloroprene (CR)	-40 to 250 (-40 to 121)

\*Different materials are available for special applications.

## **BACK PRESSURE**

Maximum allowable back pressure is rated to 1000 psi (69 bar) for 1/4, 200 psi (14 bar) for 3/8 to 1".

In systems where pulses, pressure shock or pressure surges occur please select a valve from the H-400HP Series

#### MAWP PRESSURE AT 21°C (70°F)

SIZE	BRASS psi (bar)	AISI 316 psi (bar)
1/8 ,1/4, 3/8, 1/2, 5/8, 6mm, 8mm,10mm,12mm	3000 (207)	3000 (207)
3/4, 1", 16mm, 20mm, 22 mm	1500 (103)	2000 (138)**

\*\*CRN approved 1" Female NPT is limited to 1500 psi (103 bar)

# **CRACKING AND RESEAL PRESSURE**

Nominal Cracking Pressure	Cracking Pressure Range	Beseal Pressure	
psi (bar)	psi (bar)	psi (bar)	
1/3 (0.02)	Up to 3 (0.2)	Up to 6 (0.40) back pressure	
1 (0.06)	Up to 4 (0.27)	Up to 6 (0.41) back pressure	
5 (0.34)	3 to 9 (0.20 to 0.62)	Up to 2 (0.13) back pressure	
10 (0.68)	7 to 15 (0.48 to 1.0) 3 (0.2) or more inlet p		
25 (1.7)	20 to 30 (1.3 to 2.0)	17 (1.1) or more inlet pressure	

# PRESSURE - TEMPERATURE RATING FOR STANDARD CONFIGURATIONS

#### 1/8 TO 1/2 INCH, 3MM TO 12 MM

Material	316St.St.	Brass	
Temperature F° (C°)	Working Pressure, psi (bar)		
-10 (-23) to 100 (37)	3000 (206)	3000 (206)	
200 (93)	2575 (177)	2600 (179)	
250 (121)	2450 (168)	2405 (165)	
300 (148)	2325 (160)	-	
375 (190)	2185 (150)	-	

Note: Ratings based on Fluorocarbon FKM O-ring.

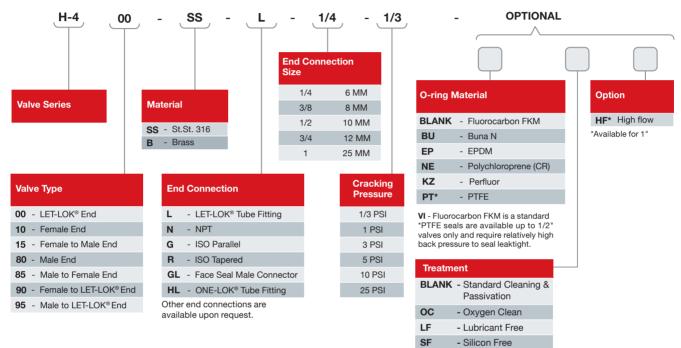
#### 3/4 TO 1 INCH, 18MM TO 25MM

Material	316St.St.	Brass
Temperature F° (C°)	Working Pres	sure, psi (bar)
-10 (-23) to 100 (37)	2000 (137)	1500 (103)
200 (93)	1715 (118)	1300 (89.5)
250 (121)	1630 (112)	1200 (82.6)
300 (148)	1545 (106)	-
375 (190)	1450 (99.9)	-

Every H-400 series Check valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant-Free Cleaning and packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

## TESTING

The H-400 valve designs have been tested for proof and burst. Every H-400 valve is factory tested for proper assembly with Nitrogen at 1000 psig (68 bar) for 10 seconds. Every H-400 valve is factory tested for functionality at the relevant cracking pressure, 5 cycles each. No detectable leakage is allowed during shell test.



# H-400 SERIES ORDERING INFORMATION

#### SPARE KITS

Series	End Size	Spring Kit*	O-Ring Kit**
	1/8	Z-400-SPK-1/4-X PSI	Z-400-SK-1/4-
H-410 Female Ends	1/4 , 3/8	Z-400-SPK-3/8-X PSI	Z-400-SK-3/8- <b>D</b>
H-490 Female to Let-Lok®	1/2	Z-410-SPK-1/2-X PSI	Z-410-SK-1/2- <b>D</b>
	3/4	Z-410-SPK-3/4-X PSI	Z-410-SK-3/4-
	1	Z-410-SPK-1"-X PSI	Z-410-SK-1"- 🗖
H-485 Male to Female	1/8	Z-400-SPK-1/4-X PSI	Z-400-SK-1/4-
H-415 Female to Male	1⁄4,3/8	Z-400-SPK-3/8-X PSI	Z-400-SK-3/8- <b>D</b>
	1/2	Z-410-SPK-1/2-X PSI	Z-410-SK-1/2-
	3/4	Z-410-SPK-3/4-X PSI	Z-410-SK-3/4-
H-400 Let-Lok®	1/8, 1/4, 6mm	Z-400-SPK-1/4-X PSI	Z-400-SK-1/4-
H-480 Male Ends	3/8 ,8mm, 10mm	Z-400-SPK-3/8-X PSI	Z-400-SK-3/8-
H-495 Male to Let-Lok	1/2, 12mm	Z-400-SPK-1/2-X PSI	Z-400-SK-1/2-
	3/4	Z-400-SPK-3/4-X PSI	Z-400-SK-3/4- <b>D</b>
	1	Z-410-SPK-1-X PSI	Z-410-SK-1- <b>D</b>

 $\star\,$  Spring Kit includes Spring and label

\*\* O-ring Kit includes O-ring and label

X =spring type per "How To Order" □ =O-Ring material per "How To Order"

HAM-LET Check Valves should never be used as safety relief devices. These valves are not designed for pressure release.



CNG<sup>(1)</sup>

St.St. ASTM A-479

Low temperature

Fluorocarbon FKM Bonded

on 316 St.St.

St.St. ASTM A-479

St.St. 304 Low temperature

Fluorocarbon FKM

Fluorocarbon FKM

St.St. ASTM A-479

Silicone and PTFE based

### **FEATURES**

- 316 St.St. construction
- High-Pressure Characteristics up to 6000 psi (413 bar)
- Small Size
- Variable Fixed Cracking Pressure
- HAM-LET LET-LOK<sup>®</sup>, Male & Female NPT, and HTC Face Seal Bead Ends
- Suitable for vacuum applications
- ECE R110 approved for the CNG/NGV as an option

Standard

St.St. ASTM A-479

Fluorocarbon FKM

Bonded on

316 St.St.

St.St. ASTM A-479

St.St. 304

Fluorocarbon FKM

Fluorocarbon FKM

St.St. ASTM A-479

# MATERIALS OF CONSTRUCTION

Qty.

1

1

1

1

1

1

1

No. Components

\*Bonded

Poppet

\*Pusher

\*Spring

\*O-ring

\*Back Up

Lubricant

1 \*Bodv

2

3

4

5

6

7 \*End

## **GENERAL**

The H-400HP Series is a compact, robust and heavy duty design for high-pressure (up to 6000 psi) instrumentation panels and systems, which provides an accurate operating point, H-400HP valves are normally closed. When the differential pressure between the inlet and the outlet is higher than the set pressure of the spring, the loaded poppet will move backwards and provide a free passage of flow through the valve.

H-400HP CNG is specially designed for the CNG/NGV

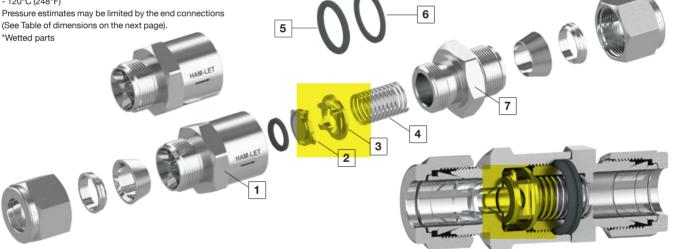
## **PRESSURE TEMPERATURE RATING\***

		316SS			
	Material Size	1/8, 1/4, 3/8, 1/2'', 6,8,10,12mm	22&25mm , 3/4&1''		
	Temperature F° (C°)	Working-Pres	ssure, psi (bar)		
	-10 (-23) to 100 (37)	6000 (413)	5000 (344)		
	200 (93)	5160 (355)	4290 (296)		
	250 (121)	4910 (338)	4080 (281)		
1	300 (148)	4660 (321)	3875 (267)		
	400 (204)	4280 (295)	3560 (245)		

	<b>G:</b> MAWP 3770 psi (2	260 bar)	Temperature range	: -40°C (-40°F)

- 120°C (248°F)

(See Table of dimensions on the next page)



## **CRACKING AND RESEAL PRESSURE**

Nominal Cracking Pressure	Cracking Pressure Range	Reseal Pressure
psi (bar)	psi (bar)	psi (bar)
1/3 (0.02)	Up to 3 (0.2)	Up to 6 (0.40) back pressure
1 (0.06)	Up to 4 (0.27)	Up to 4 (0.27) back pressure
5 (0.34)	3 to 9 (0.20 to 0.62)	Up to 2 (0.13) back pressure
10 (0.68)	7 to 15 (0.48 to 1.0)	3 (0.2) or more inlet pressure
25 (1.7)	20 to 30 (1.3 to 2.0)	17 (1.1) or more inlet pressure

#### **CRACKING PRESSURE**

The differential pressure between the inlet and outlet, at which an initial flow is passing through the valve.

#### **TECHNICAL DATA**

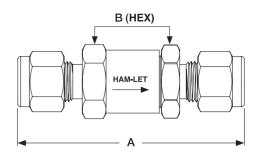
Connection Sizes Max. Flow Coefficient (Cv)		Nominal Cracking Pressure psi (bar)	Back Pressure at 70°F (20°C) psi (bar)
1/8, 1/4, 6mm	0.67	1/3, 1, 5, 10 & 25	6000 (413)
3/8, 1/2, 8-12 mm	1.80	(0.02, 0.06, 0.34,	0000 (413)
3/4, 1, 22mm, 25mm	4.7	0.68, and 7.1)	5000 (344)

## **RESEAL PRESSURE**

The differential pressure between the outlet and inlet, at which no flow is passing through the valve.

Lubricant-Free cleaned valves have higher re-seal pressure.

Every H-400HP series Check valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant-Free Cleaning and packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.



Valve type         Inter         Outlet         100Fe / 37C° psig (bat)         n         i         n         in           1/8' LET-LOK°         1/8' LET-LOK°         1/8' LET-LOK°         1/8' LET-LOK°         1/1'         11/1'         11/1'         11/1'           3/8' LET-LOK°         1/4' LET-LOK°         1/4' LET-LOK°         1/1'         11/1'			Inlet Outlet		Dimensions			
H-400HP         1/8" LET-LOK®         1/8" LET-LOK®         1/8" LET-LOK®         1/8" LET-LOK®         1/1/1 LET-LOK® <th>Valve Type</th> <th>Inlet</th> <th>Pressure Ratings at</th> <th colspan="2">А</th> <th>В</th>	Valve Type	Inlet		Pressure Ratings at	А		В	
H-400HP         1/4" LET-LOK®         1/1/16         11/16           3/8" LET-LOK®         3/8" LET-LOK®         5000 (413)         70.0         2.76         1           1/2" LET-LOK®         3/4" LET-LOK®         5000 (344)         49.5         3.52         1         5/8           3/4" LET-LOK®         3/4" LET-LOK®         5000 (344)         49.5         3.52         1         5/8           1" LET-LOK®         3/4" LET-LOK®         6MM LET-LOK®         66.8         2.70         61.8         2.43         11/16           10ML LET-LOK®         10MM LET-LOK®         6000 (413)         66.5         2.70         1				100F*/37C* psig (bar)	mm	in	in	
H-400HP         1/4" LE1-LOK"         1/4" LE1-LOK         6000 (413)         61.8         2.43           3/8" LET-LOK"         3/4" LET-LOK"         1/2" LET-LOK"         1/2"         1         1           3/4" LET-LOK"         3/4" LET-LOK"         5000 (344)         89.5         3.52         1           3/4" LET-LOK"         3/4" LET-LOK"         6000 (323)         98.5         3.82         1           6MM LET-LOK"         6MM LET-LOK"         6000 (413)         61.8         2.43         11/16           2010         10MM LET-LOK"         6MM LET-LOK"         6000 (413)         71.1         2.80         1           12MM LET-LOK"         10MM LET-LOK"         6000 (413)         71.1         2.80         1           22MM LET-LOK"         10MM LET-LOK"         5000 (344)         88.5         3.88         1           22MM LET-LOK"         22MM LET-LOK"         5000 (341)         64.8         2.55         1           3/4" Female NPT/BSPT         1/4" Female NPT/BSPT         5000 (341)         63.8         3.03         1           3/4" Female NPT/BSPT         1/2" Female NPT/BSPT         4000 (280)         90.1         3.28         1           1/4" Female NPT/BSPT         1/2" Female NPT/BSPT <td< td=""><td></td><td>1/8" LET-LOK®</td><td>1/8" LET-LOK®</td><td></td><td>57.8</td><td>2.28</td><td rowspan="2">11/16</td></td<>		1/8" LET-LOK®	1/8" LET-LOK®		57.8	2.28	11/16	
H-400HP         1/2" LET-LOK"         3/3" LET-LOK"         7/2" LET-LOK"         7/2" LET-LOK"         7/2" LET-LOK"         7/2" LET-LOK"         1           1/2" LET-LOK"         1/2" LET-LOK"         3/4" LET-LOK"         5000 (344)         88.5         3.52         1         5/8           1/4" LET-LOK"         1" LET-LOK"         4700 (323)         98.5         3.88         1         1/7           6MM LET-LOK"         6MM LET-LOK"         6000 (413)         68.5         2.70         1         2.86         1           10MM LET-LOK"         10MM LET-LOK"         6000 (413)         68.5         2.70         1		1/4" LET-LOK®	1/4" LET-LOK®	6000 (412)	61.8	2.43		
H-400HP         1/2" LET-LOK®         1/2" LET-LOK®         75.3         2.96           3/4" LET-LOK®         3/4" LET-LOK®         5000 (344)         89.5         3.82         15/8           1" LET-LOK®         1" LET-LOK®         6MM LET-LOK®         6000 (313)         98.5         3.88         11/16           10MM LET-LOK®         8MM LET-LOK®         8MM LET-LOK®         6000 (413)         68.5         2.70         71.1         2.80         1           12MM LET-LOK®         12MM LET-LOK®         12MM LET-LOK®         6000 (413)         54.1         2.13         11/16           22MM LET-LOK®         22MM LET-LOK®         5000 (344)         64.8         2.55         1           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         5000 (344)         64.8         2.55         1           1/4" Female NPT/BSPT         1/2" Female NPT/BSPT         4000 (316)         83.6         3.03         1           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         4100 (282)         97.3         3.83         1           1/2" Female NPT/BSPT         1/4" Female SSPP         4000 (316)         83.5         2.29         1           1/4" Female SSP         1/4" Female SSPP         4000 (286)         90.1         3.55		3/8" LET-LOK®	3/8" LET-LOK®	6000 (413)	70.0	2.76	-1	
H-400HP         1* LEFLOK®         1* LEFLOK®         4700 (323)         98.5         3.88         1.7/6           6MM LEFLOK®         6MM LEFLOK®         8MM LEFLOK®         6000 (413)         61.8         2.43         11/16           10MM LEFLOK®         10MM LEFLOK®         10MM LEFLOK®         10000 (413)         61.8         2.43         1           22MM LEFLOK®         10MM LEFLOK®         20M LEFLOK®         5000 (344)         88.5         3.48         1.5/8           22MM LEFLOK®         22MM LEFLOK®         5000 (344)         64.8         2.55         1           3/8" Female NPT/BSPT         1/4" Female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         3/8" Female NPT/BSPT         5000 (344)         64.8         2.55         1           1/2" Female NPT/BSPT         1/2" Female NPT/BSPT         4000 (280)         90.1         3.23         15/8           1/4" Female NPT/BSPT         1/2" Female NPT/BSPT         4000 (280)         90.1         3.53         1.5/8           1/4" Female SSPP         1/4" Female SSPP         4000 (280)         90.1         3.55         1.5/8           1/4" Male NPT/BSPT         1/2" Female SSPP         4000 (281)         65.0		1/2" LET-LOK®	1/2" LET-LOK®		75.3	2.96		
H-400HP         If 'LE I-LOK®         1 'LE I-LOK®         4700 (323)         98.5         3.88           6MM LET-LOK®         6MM LET-LOK®         6MM LET-LOK®         66.8         2.43         11/16           10MM LET-LOK®         10MM LET-LOK®         66.5         2.70         71.1         2.80         1           12MM LET-LOK®         12MM LET-LOK®         22MM LET-LOK®         55.0         2.86         3.88         15/8           22MM LET-LOK®         22MM LET-LOK®         5000 (344)         88.5         3.48         15/8           22MM LET-LOK®         22MM LET-LOK®         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         1/4" female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/4" Female NPT/BSPT         1/2" female NPT/BSPT         4000 (216)         83.6         3.03         1           1/4" Female NPT/BSPT         1/4" female NPT/BSPT         4000 (280)         90.1         3.23         15/8           1/2" Female SPP         1/2" female BSPP         4000 (280)         90.1         3.23         1           1/4" female BSPP         1/2" female BSPP         4000 (280)         90.1         3.55         1           1/2" Male S		3/4" LET-LOK®	3/4" LET-LOK®	5000 (344)	89.5	3.52	1.5/0	
H-410HP         6MM LET-LOR®         6MM LET-LOR®         6MM LET-LOR®         6MM LET-LOR®         6000 (413)         66.5         2.70         71.1         2.80         1           10MM LET-LOR®         10MM LET-LOR®         12MM LET-LOR®         12MM LET-LOR®         66.00 (413)         75.3         2.96         1	11 400110	1" LET-LOK®	1" LET-LOK®	4700 (323)	98.5	3.88	1 5/8	
H-410HP         10MM LET-LOK®         10MM LET-LOK®         71.1         2.80         1           12MM LET-LOK®         12MM LET-LOK®         22MM LET-LOK®         5000 (344)         88.5         3.48         15/8           22MM LET-LOK®         22MM LET-LOK®         5000 (344)         88.5         3.48         15/8           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         1/2" Female NPT/BSPT         5000 (344)         68.6         3.03         1           3/4" Female NPT/BSPT         1/2" Female NPT/BSPT         4600 (316)         83.6         3.03         1           3/4" Female NPT/BSPT         1/2" Female NPT/BSPT         4100 (282)         97.3         3.83         15/8           1/2" Female BSPP         1/2" Female BSPP         4000 (286)         90.1         3.25         1           3/4" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         15/8           1/2" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         15/8           1/2" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         15/8           1	H-400HP	6MM LET-LOK®	6MM LET-LOK®		61.8	2.43	11/16	
H-410HP         10MM LET-LOK®         10MM LET-LOK®         71.1         2.80         1           12MM LET-LOK®         12MM LET-LOK®         71.1         2.80         1           22MM LET-LOK®         22MM LET-LOK®         5000 (344)         88.5         3.48         1.5/8           25MM LET-LOK®         22MM LET-LOK®         4700 (323)         98.5         3.88         1.5/8           3/8" Female NPT/BSPT         1/4" Female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         3/4" Female NPT/BSPT         4600 (316)         83.6         3.03         1           3/4" Female NPT/BSPT         3/4" Female NPT/BSPT         4000 (296)         90.1         3.23         15/8           11/2" Female NPT/BSPT         1/4" Female NPT/BSPT         4100 (282)         97.3         3.83         1           14" Female NPT/BSPT         1/2" Female BSPP         4100 (282)         97.4         3.83         1           1/4" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         1           1/2" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         1           1/2" Male BSPP         1/8" Male NPT/BSPT         6		8MM LET-LOK®	8MM LET-LOK®	0000 (110)	68.5	2.70		
H-410HP         22MM LET-LOK®         22MM LET-LOK®         5000 (344)         88.5         3.48         15/8           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         1/4" Female NPT/BSPT         5000 (344)         64.8         2.55         1           1/2" Female NPT/BSPT         1/2" Female NPT/BSPT         4600 (316)         83.6         3.03         1           3/4" Female NPT/BSPT         1/4" Female NPT/BSPT         4100 (282)         97.3         3.83         15/8           1/4" Female BSPP         1/4" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         1/2" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         1/2" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         15/8           1/2" Female SAE/MS         1/2" Female BSPP         4100 (282)         97.4         1         1           3/4" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         69.2         2.77 <t< td=""><td></td><td>10MM LET-LOK®</td><td>10MM LET-LOK®</td><td>6000 (413)</td><td>71.1</td><td>2.80</td><td>1</td></t<>		10MM LET-LOK®	10MM LET-LOK®	6000 (413)	71.1	2.80	1	
H-410HP         25MM LET-LOK®         25MM LET-LOK®         4700 (323)         98.5         3.88         15/8           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         3/8" Female NPT/BSPT         5000 (344)         64.8         2.55         1           3/4" Female NPT/BSPT         3/4" Female NPT/BSPT         4600 (316)         83.6         3.03         1           3/4" Female NPT/BSPT         1/2" Female NPT/BSPT         4100 (282)         97.3         3.83         1         1/6"           1/4" Female BSPP         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           3/4" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         1         5/8           1/2" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         1         5/8           1/2" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         1         1/8           1/2" Female BSPP         1/4" Male NPT/BSPT         6000 (413)         66.5         2.74         1         1           1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         600		12MM LET-LOK®	12MM LET-LOK®		75.3	2.96		
H-410HP         25MM LET-LOK®         25MM LET-LOK®         4700 (223)         98.5         3.88           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         6000 (413)         54.1         2.13         11/16           3/8" Female NPT/BSPT         3/8" Female NPT/BSPT         5000 (344)         64.8         2.55         1           1/2" Female NPT/BSPT         3/4" Female NPT/BSPT         4300 (296)         90.1         3.23         15/8           3/4" Female NPT/BSPT         1/4" Female BSPP         4300 (286)         90.1         3.23         15/8           1/4" Female BSPP         1/4" Female BSPP         4000 (316)         83.5         3.29         1           3/4" Female BSPP         1/2" Female BSPP         4300 (296)         90.1         3.55         15/8           1/2" Female BSPP         3/4" Female BSPP         4300 (296)         90.1         3.55         15/8           1/2" Female BSPP         1/2" Female SAE/MS         1/2" Female SAE/MS         16000 (282)         97.4         3.83         11/16           3/4" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           3/4" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         65.0         2.72         1 <td></td> <td>22MM LET-LOK®</td> <td>22MM LET-LOK®</td> <td colspan="2">5000 (344) 8</td> <td>3.48</td> <td>4.5 %</td>		22MM LET-LOK®	22MM LET-LOK®	5000 (344) 8		3.48	4.5 %	
H-410HP         3/8" Female NPT/BSPT         3/8" Female NPT/BSPT         5000 (344)         64.8         2.55         1           1/2" Female NPT/BSPT         1/2" Female NPT/BSPT         4600 (316)         83.6         3.03         1           3/4" Female NPT/BSPT         3/4" Female NPT/BSPT         4400 (316)         83.6         3.03         1           1/4" Female NPT/BSPT         1/4" Female NPT/BSPT         4100 (282)         97.3         3.83         15/8           1/4" Female BSPP         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           1/2" Female BSPP         1/2" Female BSPP         4000 (282)         97.4         3.83         15/8           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (413)         45.6         1.80         11/16           1/2" Male NPT/BSPT         1/4" Male NPT/BSPT         6000 (413)         60.0         2.36         1           1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         5000 (344)         69.2         2.72         1     <		25MM LET-LOK®	25MM LET-LOK®	4700 (323)	98.5	3.88	1 9/8	
H-410HP         1/2" Female NPT/BSPT         1/2" Female NPT/BSPT         4600 (316)         83.6         3.03         1           3/4" Female NPT/BSPT         3/4" Female NPT/BSPT         4300 (296)         90.1         3.23         15/8           1" Female NPT/BSPT         1" Female NPT/BSPT         4100 (282)         97.3         3.83         15/8           1/4" Female BSPP         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           3/4" Female BSPP         1/2" Female BSPP         4000 (296)         90.1         3.55         3.29         1           3/4" Female BSPP         1/2" Female BSPP         4000 (296)         90.1         3.55         1.76           1/2" Female BSPP         1/2" Female BSPP         4000 (282)         97.4         3.83         15/8           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (413)         45.6         1.80         11/16           1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         5000 (344)         93.3         3.67		1/4" Female NPT/BSPT	1/4" Female NPT/BSPT	6000 (413)	54.1	2.13	11/16	
H-410HP         3/4" Female NPT/BSPT         3/4" Female NPT/BSPT         4300 (296)         90.1         3.23         1 5/8           1" Female NPT/BSPT         1" Female NPT/BSPT         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           1/2" Female BSPP         1/2" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         3/4" Female BSPP         4300 (296)         90.1         3.55         15/8           1" Female BSPP         1/2" Female BSPP         4300 (296)         90.1         3.55         15/8           1" Female BSPP         1/2" Female BSPP         4100 (282)         97.4         3.83         1           1/2" Male BSPP         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/2" Male NPT/BSPT         1/2" Male NPT/BSPT         6000 (413)         69.2         2.77         1           3/8" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         5000 (344)         93.3         3.67         1           1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1		3/8" Female NPT/BSPT	3/8" Female NPT/BSPT	5000 (344)	64.8	2.55	1	
H-410HP         3/4" Female NPT/BSPT         3/4" Female NPT/BSPT         4300 (296)         90.1         3.23         15/8           1" Female NPT/BSPT         1" Female NPT/BSPT         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           1/4" Female BSPP         1/2" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         3/4" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         1/2" Female BSPP         4000 (296)         90.1         3.55         15/8           1" Female BSPP         1" Female BSPP         4100 (282)         97.4         3.83         1           1/2" Male BSPP         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/2" Male NPT/BSPT         1/2" Male NPT/BSPT         1/2" Male NPT/BSPT         6000 (413)         69.2         2.77         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1           1/4" Male BSPP         1/4" Male NPT/		1/2" Female NPT/BSPT	1/2" Female NPT/BSPT	4600 (316)	83.6	3.03	1	
H-410HP         1" Female NPT/BSPT         1" Female NPT/BSPT         4100 (282)         97.3         3.83         15/8           1/4" Female BSPP         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           1/2" Female BSPP         1/2" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         3/4" Female BSPP         4000 (296)         90.1         3.83         15/8           1/2" Female BSPP         11/2 Female BSPP         4100 (282)         97.4         3.83         15/8           1/2" Female BSPP         1/2" Female BSPP         4000 (316)         69.5         2.74         1           1/2" Female BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           3/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         5000 (344)         69.2         2.72         1           3/4" Male NPT/BSPT         1/4" Male BSPP         6000 (413)         69.2         2.72         1           1/4" Male BSPP         1/4" Male BSPP         5000 (344)         93.3         3.67         15/8           1/2" Male		3/4" Female NPT/BSPT		4300 (296)				
H-410HP         1/4" Female BSPP         1/4" Female BSPP         6000 (413)         58.0         2.28         11/16           1/2" Female BSPP         1/2" Female BSPP         4600 (316)         83.5         3.29         1           3/4" Female BSPP         3/4" Female BSPP         4300 (296)         90.1         3.55         15/8           1" Female BSPP         1" Female BSPP         4100 (282)         97.4         3.83         15/8           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           3/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/4" Male NPT/BSPT         5000 (344)         83.5         3.29         1           1/2" Male BSPP         1/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/4" Male BSPP         6000 (413)         69.2         2.72         1           1/2" Male BSPP <td></td> <td>1" Female NPT/BSPT</td> <td>1" Female NPT/BSPT</td> <td>4100 (282)</td> <td>97.3</td> <td>3.83</td> <td colspan="2">1 5/8</td>		1" Female NPT/BSPT	1" Female NPT/BSPT	4100 (282)	97.3	3.83	1 5/8	
3/4" Female BSPP         3/4" Female BSPP         4300 (296)         90.1         3.55         1 5/8           1" Female BSPP         1" Female BSPP         1" Female BSPP         4100 (282)         97.4         3.83         1 5/8           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           1/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         5000 (344)         93.3         3.67         15/8           1/4" Male BSPP         1/4" Male BSPP         1/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/4" Male BSPP         5000 (344)         93.3         3.67         15/8           1/2" Male BSPP         1/4" Male BSPP         1/2" Male BSPP         5000 (344)         69.2         2.72         1           3/4" Male HO Fitting         1/2" Male SAE/MS         1/2" Male SAE/MS	H-410HP	1/4" Female BSPP	1/4" Female BSPP	. ,	58.0	2.28	11/16	
3/4" Female BSPP         3/4" Female BSPP         4300 (296)         90.1         3.55         1 5/8           1" Female BSPP         1" Female BSPP         1" Female BSPP         4100 (282)         97.4         3.83         1 5/8           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           1/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         5000 (344)         93.3         3.67         1           3/4" Male NPT/BSPT         1/4" Male BSPP         1/4" Male BSPP         93.3         3.67         1           1/2" Male BSPP         1/4" Male BSPP         1/2" Male BSPP         5000 (344)         93.3         3.67         1           3/4" Male BSPP         1/2" Male BSPP         1/4" Male BSPP         5000 (344)         69.2         2.72         1           3/4" Male BSP         1/2" Male BAE/MS         1/2" Male SAE/MS         5000 (344)		1/2" Female BSPP	1/2" Female BSPP	4600 (316)	83.5	3.29	1	
H-480HP         1" Female BSPP         1" Female BSPP         4100 (282)         97.4         3.83         1.5/8           1/2" Female SAE/MS         1/2" Female SAE/MS         4600 (316)         69.5         2.74         1           1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           3/8" Male NPT/BSPT         1/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/8" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           1/2" Male NPT/BSPT         3/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1           1/4" Male NPT/BSPT         3/4" Male NPT/BSPT         5000 (344)         93.3         3.67         15/8           1/4" Male BSPP         1/4" Male BSPP         1/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         1/2" Male BSP         3.67         15/8           1/2" Male BSPP         1/2" Male BSPP         1/2" Male BSP         6000 (413)         63.0         2.48         1           1/2" Male SAE/MS         1/2" Male AD F		3/4" Female BSPP	3/4" Female BSPP	. ,				
H-480HP         1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         60.0         2.36         1           3/8" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         5000 (344)         93.3         3.67         15/8           1/4" Male BSPP         1/4" Male BSPP         1/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/4" Male BSPP         6000 (344)         93.3         3.67         15/8           1/2" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         3/4" Male BSPP         6000 (413)         85.2         3.35           1/2" Male BAE/MS         1/2" Male BAE/MS         1/2" Male BAE/MS         1/2" Male SAE/MS         1.58         11.5/8           1/4" Male HO Fitting <t< td=""><td></td><td>1" Female BSPP</td><td>1" Female BSPP</td><td></td><td>97.4</td><td>3.83</td></t<>		1" Female BSPP	1" Female BSPP		97.4	3.83		
H-480HP         1/8" Male NPT/BSPT         1/8" Male NPT/BSPT         6000 (413)         45.6         1.80         11/16           1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         60.0         2.36         1           3/8" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         6000 (344)         69.2         2.72         1           1/4" Male BSPP         1/4" Male BSPP         3/4" Male BSPP         6000 (344)         69.2         2.72         1           1/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         3/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         3/4" Male BSPP         6000 (413)         55.0         2.17         3/4           1/2" Male BSPP         1/2" Male BSPP         3/4" Male BSPP         5000 (344)         85.2         3.35         15/8           1/2" Male AD Fitting         1/2" Male SAE/MS         6000 (413)         50.4         1		1/2" Female SAE/MS	1/2" Female SAE/MS	. ,	69.5	2.74	1	
H-480HP         1/4" Male NPT/BSPT         1/4" Male NPT/BSPT         6000 (413)         55.0         2.17           3/8" Male NPT/BSPT         3/8" Male NPT/BSPT         3/8" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         1/2" Male NPT/BSPT         3/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         83.5         3.29         1.5/8           1" Male NPT/BSPT         1/4" Male BSPP         1/4" Male BSPP         5000 (344)         93.3         3.67         15/8           1/2" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         6000 (413)         55.0         2.17         3/4           1/2" Male BSPP         3/4" Male BSPP         6000 (344)         63.0         2.48         1           1/2" Male BAE/MS         1/2" Male BAE/MS         1/2" Male HO Fitting         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/4" Male HO Fitting         3/4" Male HO Fitting         5000 (344)         73.6         2.90		1/8" Male NPT/BSPT	1/8" Male NPT/BSPT		45.6			
H-480HP         3/8* Male NPT/BSP1         3/8* Male NPT/BSP1         60.0         2.36         1           1/2" Male NPT/BSPT         1/2" Male NPT/BSPT         3/4" Male NPT/BSPT         6000 (413)         69.2         2.72         1           3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         1" Male NPT/BSPT         3/4" Male NPT/BSPT         15/8         3.29         15/8           1" Male NPT/BSPT         1" Male NPT/BSPT         1" Male BSPP         1/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1/2" Male BSPP         1/2" Male BSPP         6000 (344)         85.2         3.35         15/8           1/2" Male BSPP         1" Male BSPP         1         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/2" Male HO Fitting         1/2" Male HO Fitting         6000 (344)         50.8         2.35         1           3/4" Male HO Fitting         1/2" Male HO Fitting         5000 (3		1/4" Male NPT/BSPT	1/4" Male NPT/BSPT		55.0	2.17	11/16	
H-480HP         1/2" Male NPT/BSPT         1/2" Male NPT/BSPT         3/4" Male NPT/BSPT         1" Male NPT/BSPT         1.5/8         3.29         1.5/8           1/4" Male BSPP         1/4" Male BSPP         1/4" Male BSPP         6000 (413)         55.0         2.17         3/4           1/2" Male BSPP         1/2" Male BSPP         3/4" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         3/4" Male BSPP         3/4" Male BSPP         1/2" Male BSPP         15/8         15/8           1/2" Male SAE/MS         1/2" Male BSPP         1" Male BSPP         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/4" Male HO Fitting         1/2" Male HO Fitting         5000 (344)         59.8         2.35         1           3/4" Male HO Fitting         3/4" Male HO Fitting         3/4" Male HO Fitting         5000 (344)         73.6         2.90         15/8           1" Male HO Fitting         1" Male HO Fi		3/8" Male NPT/BSPT	3/8" Male NPT/BSPT	6000 (413)	60.0	2.36		
3/4" Male NPT/BSPT         3/4" Male NPT/BSPT         5000 (344)         83.5         3.29         1 5/8           1" Male NPT/BSPT         1" Male NPT/BSPT         1" Male NPT/BSPT         1 Male NPT/BSPT         93.3         3.67         1 5/8           1/4" Male BSPP         1/4" Male BSPP         1/2" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         1 5/8           1" Male BSPP         3/4" Male BSPP         3/4" Male BSPP         3.67         1 5/8           1/2" Male BSPP         1" Male BSPP         3.67         85.2         3.35           1/2" Male BSPP         1" Male BSPP         3.67         1 5/8           1/2" Male BAE/MS         1/2" Male BAE/MS         63.0         2.48         1           1/2" Male HO Fitting         1/4" Male HO Fitting         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/2" Male HO Fitting         3/4" Male HO Fitting         5000 (344)         73.6         2.90         1 5/8           3/4" Male HO Fitting         1" Male HO Fitting         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16      <		1/2" Male NPT/BSPT	1/2" Male NPT/BSPT	6000 (413)	69.2	2.72	1	
H-480HP       1" Male NPT/BSPT       1" Male NPT/BSPT       1" Male NPT/BSPT       93.3       3.67         1/4" Male BSPP       1/4" Male BSPP       1/4" Male BSPP $6000 (413)$ 55.0       2.17       3/4         1/2" Male BSPP       1/2" Male BSPP       3/4" Male BSPP $6000 (413)$ 69.2       2.72       1         3/4" Male BSPP       3/4" Male BSPP       3/4" Male BSPP $6000 (344)$ 85.2       3.35 $15/8$ 1/2" Male BSPP       1" Male BSPP       1" Male BSPP $6000 (344)$ 663.0       2.48       1         1/4" Male HO Fitting       1/2" Male HO Fitting       1/2" Male HO Fitting $6000 (413)$ 50.4       1.98       11/16         1/2" Male HO Fitting       1/2" Male HO Fitting $73.6$ 2.90 $73.6$ 2.90 $15/8$ 1" Male HO Fitting       1" Male HO Fitting       1" Male HO Fitting $73.6$ 2.90 $15/8$ 1/4" Male Face Seal       1/4" Male Face Seal $6000 (413)$ 58.0       2.28 $11/16$ 1/2" Male Face Seal $1/4$ " Male Face Seal $6000 (413)$ $69.2$ $2.72$ $1$		3/4" Male NPT/BSPT	3/4" Male NPT/BSPT		83.5	3.29		
I/2" Male BSPP         I/2" Male BSPP         I/2" Male BSPP         6000 (413)         69.2         2.72         1           3/4" Male BSPP         3/4" Male BSPP         3/4" Male BSPP         1" Male BSPP         1 5/8         93.3         3.67         1 5/8           1" Male BSPP         1" Male BSPP         1" Male BSPP         6000 (413)         93.3         3.67         1 5/8           1/2" Male BSPP         1" Male BSPP         1/2" Male SAE/MS         6000 (413)         63.0         2.48         1           1/2" Male HO Fitting         1/4" Male HO Fitting         1/2" Male HO Fitting         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/2" Male HO Fitting         1/2" Male HO Fitting         5000 (344)         73.6         2.90         1 5/8           3/4" Male HO Fitting         1" Male HO Fitting         1" Male HO Fitting         1 5/8         1 5/8         1 5/8           1" Male HO Fitting         1" Male HO Fitting         1" Male HO Fitting         5000 (344)         73.6         2.90         1 5/8           1/4" Male Face Seal         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16           1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2 </td <td></td> <td>1" Male NPT/BSPT</td> <td>1" Male NPT/BSPT</td> <td>5000 (344)</td> <td>93.3</td> <td>3.67</td> <td>1 5/8</td>		1" Male NPT/BSPT	1" Male NPT/BSPT	5000 (344)	93.3	3.67	1 5/8	
H-480HP $1/2^{\circ}$ Male BSPP $3/4^{\circ}$ Male BO Fitting $3/4^{\circ}$ Male HO Fitting $3/4^{\circ}$ Male Face Seal $3/4^{\circ}$ Male H		1/4" Male BSPP	1/4" Male BSPP		55.0	2.17	3/4	
H-480HP         1" Male BSPP         1" Male BSPP         1" Male BSPP         1% Male SAE/MS           1/2" Male SAE/MS         1/2" Male SAE/MS         1/2" Male SAE/MS         63.0         2.48         1           1/4" Male HO Fitting         1/4" Male HO Fitting         1/4" Male HO Fitting         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/2" Male HO Fitting         1/2" Male HO Fitting         5000 (344)         59.8         2.35         1           3/4" Male HO Fitting         3/4" Male HO Fitting         5000 (344)         73.6         2.90         15/8           1" Male HO Fitting         1" Male HO Fitting         1" Male HO Fitting         5000 (344)         73.6         2.90         15/8           1/4" Male Face Seal         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16           1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2         2.72         1		1/2" Male BSPP	1/2" Male BSPP	6000 (413)	69.2	2.72	1	
1" Male BSPP         1" Male BSPP         1" Male BSPP         93.3         3.67         1/2"           1/2" Male SAE/MS         1/2" Male SAE/MS         1/2" Male SAE/MS         6000 (413)         63.0         2.48         1           1/4" Male HO Fitting         1/4" Male HO Fitting         1/4" Male HO Fitting         6000 (413)         50.4         1.98         11/16           1/2" Male HO Fitting         1/2" Male HO Fitting         1/2" Male HO Fitting         73.6         2.90         1           3/4" Male HO Fitting         1" Male HO Fitting         1" Male HO Fitting         1         5000 (344)         73.6         2.90         1           1/4" Male Face Seal         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16           1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2         2.72         1		3/4" Male BSPP	3/4" Male BSPP		85.2	3.35		
	H-480HP	1" Male BSPP	1" Male BSPP	5000 (344)	93.3	3.67	1 5/8	
		1/2" Male SAE/MS	1/2" Male SAE/MS		63.0	2.48	1	
		1/4" Male HO Fitting	1/4" Male HO Fitting	6000 (413)	50.4	1.98	11/16	
3/4" Male HO Fitting         3/4" Male HO Fitting         73.6         2.90           1" Male HO Fitting         1" Male HO Fitting         73.6         2.90         1 5/8           1/4" Male Face Seal         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16           1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2         2.72         1			<u>v</u>					
1" Male HO Fitting         1" Male HO Fitting         5000 (344)         73.6         2.90         1 5/8           1/4" Male Face Seal         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16           1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2         2.72         1		v	•	5000 (0 / I)			4.5.0	
1/4" Male Face Seal         1/4" Male Face Seal         6000 (413)         58.0         2.28         11/16           1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2         2.72         1			v	5000 (344)			1 5/8	
1/2" Male Face Seal         1/2" Male Face Seal         3500 (241)         69.2         2.72         1			0	6000 (413)			11/16	
			1/2" Male Face Seal					
3/4 Iviale Face Seal 3/4 Iviale Face Seal 3000 (206) 96.1 3.78 1.5/8		3/4" Male Face Seal	3/4" Male Face Seal	3000 (206)	96.1	3.78	1 5/8	

#### STANDARD CONFIGURATION DIMENSIONS

Dimensions are for reference only and are subject to change.





#### **O-RINGS**

Different materials are available for special applications.

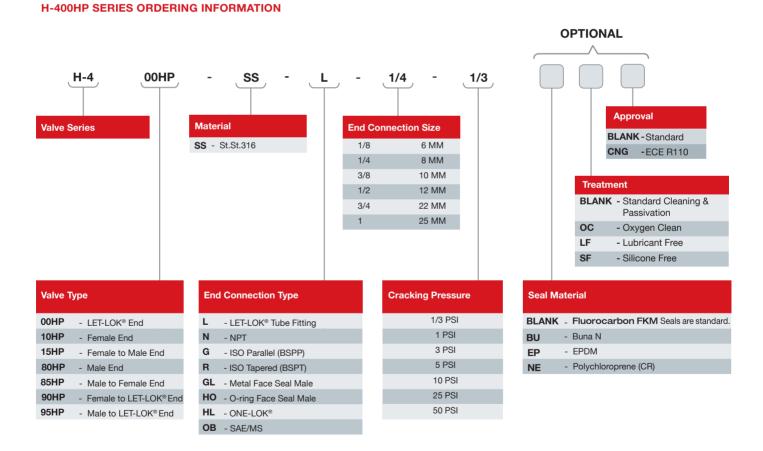
O-ring Material	Temperature Rating °F (°C)
Buna N	-10 to 250 (-23 to 121)
EPDM	-50 to 300 (-45 to 148)
Fluorocarbon FKM	-10 to 400 (-23 to 204)
Polychloroprene (CR)	-40 to 250 (-40 to 121)

## TESTING

The H-400HP valve designs have been tested for proof and burst. Every H-400HP valve is factory tested for proper assembly with Nitrogen at 1000 psig (68 bar) for 10 seconds.

Every H-400HP valve is factory tested for functionality at the relevant cracking pressure, 5 cycles each.

No detectable leakage is allowed during shell test.



Note: Check valves are designed and suitable for direct flow control only. These valves are not meant for pressure release.

# **ORDERING INFORMATION SPARE PARTS KIT / REPAIR KIT**

## SEAL KIT

The kit includes O-ring, Back-up & Bonded Poppet and Label.

Z	-	400HI	Ρ -	SK	-		4	-	_ <b>v</b>	
		Body De per End	signator Connection			Seal Mate	rial			
		1/4 For	1/8, 1/4, 6MM	N		VI	- Fluc	rocarb	on Fł	٢M
		1/2 For	3/8, 1/2, 10N	1M, 12MM		BU	- Bun	a N		
		3/4 For	3/4, 1", 25M	М		NE	- Poly	chloro	prene	e (CR)
						EP	- EPC	M		

## SPRING KIT

The kit includes Spring & Label.

# Z - 400HP - SPK - 1/4 - 1/3

			_	
		signator Connection		Cracking Pressure
1/4	For	1/8, 1/4, 6MM		1/3 PSI
1/2	For	3/8, 1/2, 10MM, 12MM		1 PSI
3/4	For	3/4, 1", 25MM		3 PSI
				5 PSI
				10 PSI
				25 PSI
				50 PSI

#### Warning!

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

HAM-LET Check Valves should never be used as safety relief devices.



## GENERAL

The H-400OP Series is a compact one-piece design for moderate pressure (up to 3000 psi) instrumentation panels and systems, which provides a fixed operating point. H-400OP valves are normally closed. When the differential pressure between the inlet and the outlet is higher than the set pressure of the spring, the loaded poppet will move backwards and provide a free passage for flow through the valve.

For vacuum applications, please select the H-400HP series.

#### MATERIALS OF CONSTRUCTION

Itom No	Item No. Components		Valve Body Material		
nen no.			316 St.St.	Brass	
1	*Lock Screw	1	St.St. 304	Brass ASTM B-16	
2	*O-ring Holder	1	St.St. ASTM A-479		
3	*O-ring	1	Fluorocarbon FKM		
4	*Poppet	1	St.St. ASTM A-479		
5	*Spring	1	St.St. 302		
6	*Body	1	St.St. ASTM A-479	Brass ASTM B-16	
	*Lubricant		Silicone and	PTFE based	

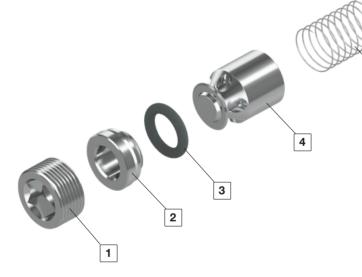
\*Wetted parts



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#### **O-RINGS**

Different materials are available for special applications.

O-ring Material	Temperature Rating °F (°C)
Buna N	-10 to 250 (-23 to 121)
Ethylene Propylene (EPDM)	-50 to 300 (-45 to 148)
Fluorocarbon FKM	-10 to 375 (-23 to 190)
Perfluor	-15 to 500 (-26 to 260)
Polychloroprene (CR)	-40 to 250 (-40 to 121)

## TECHNICAL DATA

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Connection Sizes	Max. Flow Coefficient (Cv)	Nominal Cracking Pressure psi (bar)	Back Pressure at 70°F (20°C) psi (bar)
1/4	0.35	1/3, 1,10 & 25	3000 (207)
1/2	1.20	(0.02, 0.06, 0.68, and 7.1)	3000 (207)

TTTTTTTT

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Every H-400OP series Check valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant-Free Cleaning and packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

## TESTING

The H-400OP valve designs have been tested for proof and burst. Every H-400OP valve is factory tested for proper assembly with Nitrogen at 1000 psig (68 bar) for 10 seconds.

Every H-400OP valve is factory tested for functionality at the relevant cracking pressure, 5 cycles each.

No detectable leakage is allowed during shell test.

#### STANDARD CONFIGURATION DIMENSIONS

		Dimensions			
End Connection	Size		В		
Inlet / Outlet		mm	in	in	
Female NPT	1/4	61.0	2.4	3/4	
	1/2	94.0	3.7	<b>1</b> 1/16	
Male NPT	1/4	41.0	1.61	9/16	
IVIALE INFT	1/2	58.0	2.28	7/8	
Female / Male NPT	1/4	58.0	2.28	3/4	
Male /	1/4	44.5	1.75	3/4	
Female NPT	1/2	72.0	2.83	<b>1</b> 1/16	
Female BSPT	1/4	61.0	2.54	3/4	
Male BSPT	1/2	41.0	1.61	9/16	

Dimensions are for reference only and are subject to change.

PRESSURE TEMPERATURE RATING

Material	316 St.St.	Brass	
Temperature F° (C°)	Working Pressure, psi (bar)		
-10 (-23) to 100 (37)	3000 (206)	3000 (206)	
200 (93)	2575 (177)	2600 (179)	
250 (121)	2450 (168)	2405 (165)	
300 (148)	2325 (160)	-	
375 (190)	2185 (150)	-	

#### CRACKING AND RE-SEAL PRESSURE

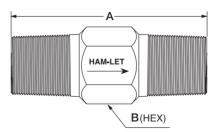
Nominal Cracking Pressure	Cracking Pressure Range	Reseal Pressure
psi (bar)	psi (bar)	psi (bar)
1/3 (0.02)	Up to 3 (0.2)	6 to 20 (0.41 to 1.3) back pressure
1 (0.06)	Up to 4 (0.27)	5 to 20 (0.34 to 1.3) back pressure
10 (0.68)	7 to 13 (0.48 to 0.89)	3 to 10 (0.2 to 0.68) back pressure
25 (1.7)	21 to 29 (1.4 to 1.9)	5 (0.34) or more inlet pressure

## **CRACKING PRESSURE**

The differential pressure between the inlet and outlet, at which an initial flow is passing through the valve.

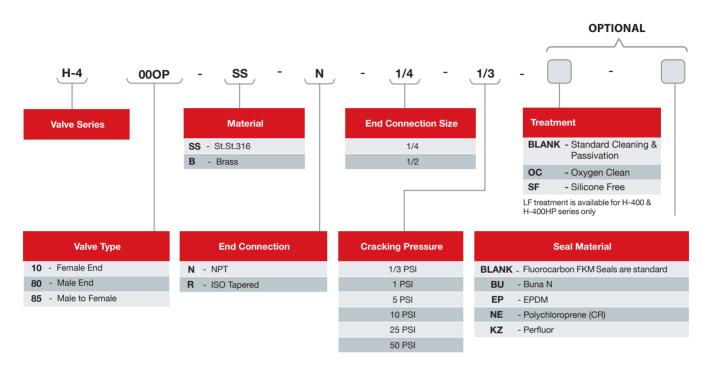
#### **RESEAL PRESSURE**

The differential pressure between the outlet and inlet, at which no flow is passing through the valve.



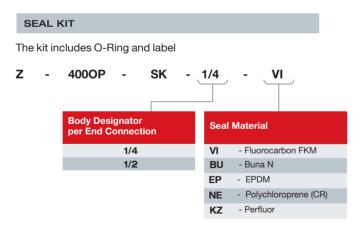


# H-400OP SERIES ORDERING INFORMATION



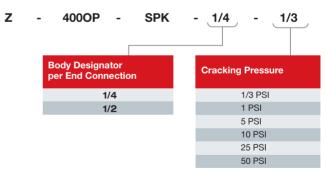
Note: Check valves are designed and suitable for direct flow control only. These valves are not meant for pressure release.

## **ORDERING INFORMATION SPARE KITS**



# SPRING KIT

The kit includes Spring & label



Springs for other cracking pressures are available upon request.

#### Warning!

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

# FEATURES

- One-piece body
- 316 St.St. or Brass construction
- Variable Adjustable Cracking Pressure Ranges
- Pressure Characteristics: up to 3000 psi
- HAM-LET Male & Female NPT, Male BSPT

# GENERAL

The H-400OPA Series is a compact one-piece design for moderate-pressure up to 3000 psi (206 bar) instrumentation panels and systems, which provides an accurate and adjustable operating point. H-400OPA valves are normally closed. When the differential pressure between the inlet and the outlet is higher than the set pressure of the spring, the loaded poppet will move backwards and provide a free passage for flow through the valve.

For vacuum applications, please select the H-400HP series.

# MATERIALS OF CONSTRUCTION

Item No.	Componente	Otre	Valve Boo	ly Material
item no.	Components	Qty.	316 St.St.	Brass
1	*Inlet Lock Screw	1	St.St. 304	Brass ASTM B-16
2	*O-ring Holder	1	St.St. ASTM A-479	Brass ASTM B-16
3	*O-ring	1	Fluorocarbon FKM	
4	*Poppet	1	St.St. ASTM A-479	
5	*Body	1	St.St. ASTM A-479 Brass ASTM	
6	*Spring	1	St.St. 302	
7	*Adjusting Screw	1	St.St. 304	
8	*Lock Screw	1 St.St. 304		. 304
	Lubricant		Silicone and PTFE based	
*14/-1111-				

\*Wetted parts



#### PRESSURE TEMPERATURE RATING

1

Material Size	316St.St.	Brass	
Temperature F° (C°)	Working Pressure, psig (bar)		
-10 (-23) to 100 (37)	3000 (206)	3000 (206)	
200 (93)	2575 (177)	2600 (179)	
250 (121)	2450 (168)	2405 (165)	
300 (148)	2325 (160)	-	
375 (190)	2185 (150)	-	

2

3

#### **O-RINGS**

Different materials are available for special applications.

O-ring Material	Temperature Rating °F (°C)
Buna N	-10 to 250 (-23 to 121)
EPDM	-50 to 300 (-45 to 148)
Fluorocarbon FKM	-10 to 375 (-23 to 190)
Perfluor	-15 to 500 (-26 to 260)
Polychloroprene (CR)	-40 to 250 (-40 to 121)

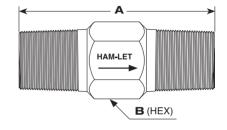


HAM-LET H-400OPA valves are treated with HAM-LET Passivation, Cleaning and Packaging (Procedure 8075).

HAM-LET H-4000PA valves with face-seal end connections are treated with HAM-LET Oxygen Cleaning and Packaging (Procedure 8055). Oxygen Cleaning and Packaging for other end connections are available as an option.

#### STANDARD CONFIGURATION DIMENSIONS

	0.	Dimensions			
End Connection	Size Inlet / Outlet		В		
		mm	in	in	
Female NPT	1/4	75.5	2.97	3/4	
Male NPT	1/4	41	1.61	9/16	
IVIALE INF I	1/2	65	2.55	7/8	
Male BSPT	1/4	41	1.61	9/16	
IVIAIE DOF I	1/2	65	2.55	7/8	

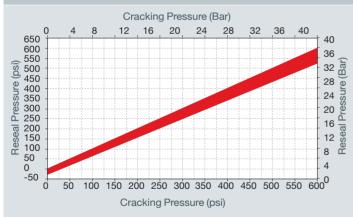


Dimensions are for reference only and are subject to change.

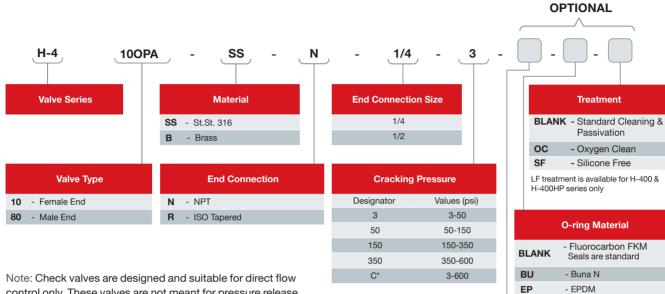
#### TECHNICAL DATA

End Connection Size	Max. FlowCoefficient (Cv)	Nominal Cracking Pressure psi (bar)	Back Pressure at 70°F (20°C) psi (bar)		
1/4	0.05	3 to 50 (0.2 to 3.4)			
1/4	0.35	0.35	50 to 150 (3.4 to 10.3)	50 to 150 (3.4 to 10.3)	2000 (007)
1/0	1.00	150 to 350 (10.3 to 24.1)	3000 (207)		
1/2	1.20	350 to 600 (24.1 to 41.3)			

#### CRACKING AND RESEAL PRESSURE



# H-4000PA SERIES ORDERING INFORMATION

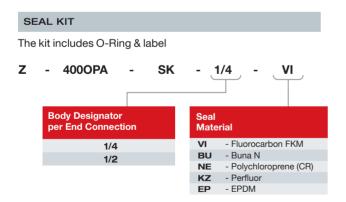


control only. These valves are not meant for pressure release.

*Factory Calibration Designator
3-600 Psi
Example: H-4800PA-SS-N-1/4-C10

Will be Calibrated to 100 Psi

# **ORDERING INFORMATION SPARE KITS**



# SPRING KIT

The kit includes Spring & label.

Z	- 400OPA - SPK	· - 1/4 - 3
	Body Designator per End Connection	Cracking Pressure
	1/4	Designator Values (psi)
	1/2	3 3-50
		50 50-150
		150 150-350
		350 350-600

NE

KΖ

- Polychloroprene (CR)

- Perfluor

## Warning!

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

## **FEATURES**

- 316 St.St. or Brass construction
- Variable adjustable cracking pressure ranges
- Pressure Characteristics: up to 3000 psi
- HAM-LET LET-LOK<sup>®</sup> Fittings, Male NPT, and HTC<sup>®</sup> Face Seal Bead

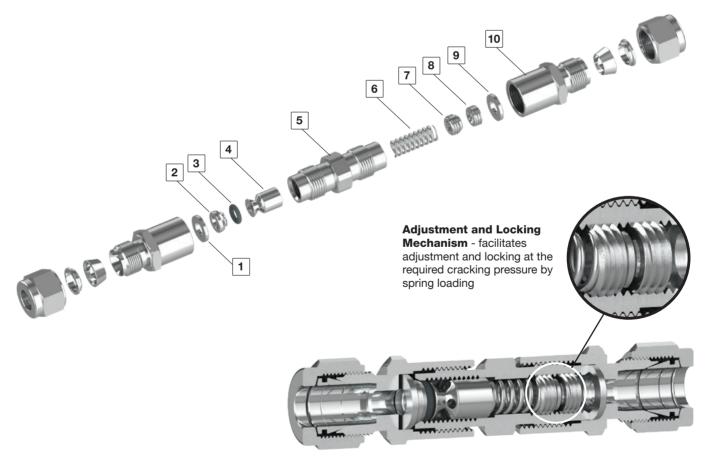
## **GENERAL**

The H-400A Series is a compact design for moderate-pressure (up to 3000 psi) instrumentation panels and systems, which provides an accurate and adjustable operating point. H-400A valves are normally closed. When the differential pressure between the inlet and the outlet is higher than the set pressure of the spring, the loaded poppet will move backwards and provide a free passage for flow through the valve.

MATERIALS OF CONSTRUCTION					
Item	Components Qty.		Valve Body Material		
No.	Components	Quy.	316 St.St.	Brass	
1	*Gasket	1	316 St.St. Silver plated	AI-6061 Silver plated	
2	*O-ring Holder	1	St.St. ASTM A-479	Brass ASTM B-16	
3	*O-ring	1	Fluorocar	bon FKM	
4	*Poppet	1	St.St. ASTM A-479		
5	*Body	1	St.St. ASTM A-479	Brass ASTM B-16	
6	*Spring	1	St.St. 302		
7	*Adjusting Screw	1	St.St. 304		
8	*Lock Screw	1	St.St	. 304	
9	*Gasket	1	316 St.St. Silver plated	AI-6061 Silver plated	
10	*End	2	St.St. ASTM A-479	Brass ASTM B-16	
Lubricant		Silicone and	PTFE based		

PRESSURE - TEMPERATURE RATING FOR STANDARD CONFIGURATIONS				
Material Size	316St.St.	Brass		
Temperature F° (C°)	Working Pres	ssure, psi (bar)		
-10 (-23) to 100 (37)	3000 (206)	3000 (206)		
200 (93)	2575 (177)	2600 (179)		
250 (121)	2450 (168)	2405 (165)		
300 (148)	2325 (160)	-		
375 (190)	2185 (150)	-		

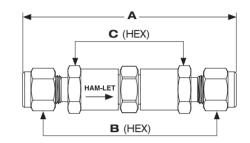
\*Wetted parts



Every H-400OA series Check valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant-Free Cleaning and packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

#### DIMENSIONS

Intlat	Intlet Outlet A		A	В	С
Intiet	Outlet	mm	in	Hex	Hex
1/4 Let-Lok®	1/4 Let-Lok®	82.5	3.25	9/16	5/8
6MM Let-Lok®	6MM Let-Lok®	82.5	3.25	14MM	5/8
8MM Let-Lok®	8MM Let-Lok®	84.4	3.32	16MM	5/8
1/4 Male NPT	1/4 Let-Lok®	79.3	3.12	9/16	5/8
1/4 Male Face Seal	1/4 Male Face Seal	78.4	3.09	-	5/8
1/4 Male NPT	1/4 Male NPT	75.7	2.98	-	5/8



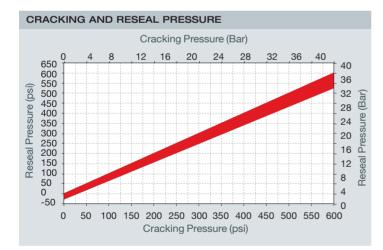
Dimensions are for reference only and are subject to change.

#### TECHNICAL DATA

Connection Size	Max. Flow Coefficient (Cv)	Nominal Cracking Pressure psi (bar)	Back Pressure at 70°F (20°C) psi (bar)
	0.37	3 to 50 (0.2 to 3.4)	
1/4, 6mm, 8mm		50 to 150 (3.4 to 10.3)	2000 (412)
		150 to 350 (10.3 to 24.1)	3000 (413)
		350 to 600 (24.1 to 41.3)	

#### **O-RINGS** Different materials are available for special applications.

O-ring Material	Temperature Rating °F (°C)
Buna N	-10 to 250 (-23 to 121)
EPDM	-50 to 300 (-45 to 148)
Fluorocarbon FKM	-10 to 375 (-23 to 190)
Perfluor	-15 to 500 (-26 to 260)
Polychloroprene (CR)	-40 to 250 (-40 to 121)







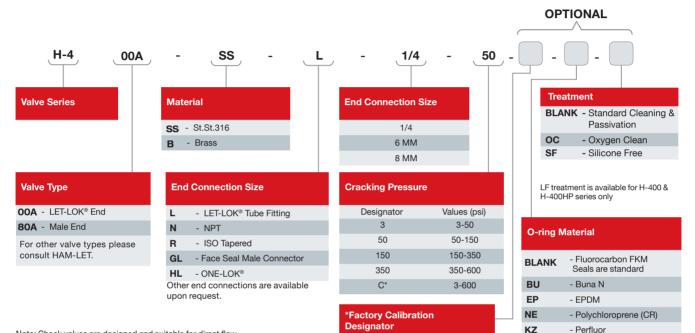
## **TESTING**

The H-400A valve designs have been tested for proof and burst. Every H-400A valve is factory tested for proper assembly with Nitrogen at 1000 psig (68 bar) for 10 seconds.

Every H-400A valve is factory tested for functionality at the relevant cracking pressure, 5 cycles each.

No detectable leakage is allowed during shell test.

## H-400A SERIES ORDERING INFORMATION



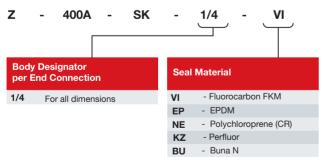
3-600 Psi

Note: Check valves are designed and suitable for direct flow control only. These valves are not meant for pressure release.

# **ORDERING INFORMATION SPARE KITS**

## SEAL KIT

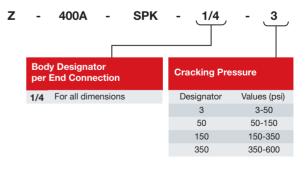
The kit includes O-ring & Label.



#### SPRING KIT

Example: H-400A-SS-L-1/4-C60 Will be Calibrated to 60 Psi

The kit includes Spring & Label.



#### Warning!

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury. HAM-LET Check Valves should never be used as safety relief devices.

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