



INDUSTRIAL EXCESS FLOW VALVES

HAM-LET H-911 SERIES



- ✔ Working pressures up to 6000 psig (413 bar)
- ✔ Stainless Steel construction
- ✔ Safety System Shut-off Device



FEATURES

- Stainless Steel construction
- MAWP¹ 6000 psi (413 bar)
- MAWT² 400°F (204°C)
- Variable connection sizes
1/8 to 1/2" and 6mm to 12 mm
- Flow coefficient (Cv) 0.5 To 1.1
- Safety System Shut-off Device

¹Maximum Allowed Working Pressure

²Maximum Allowed Working Temperature

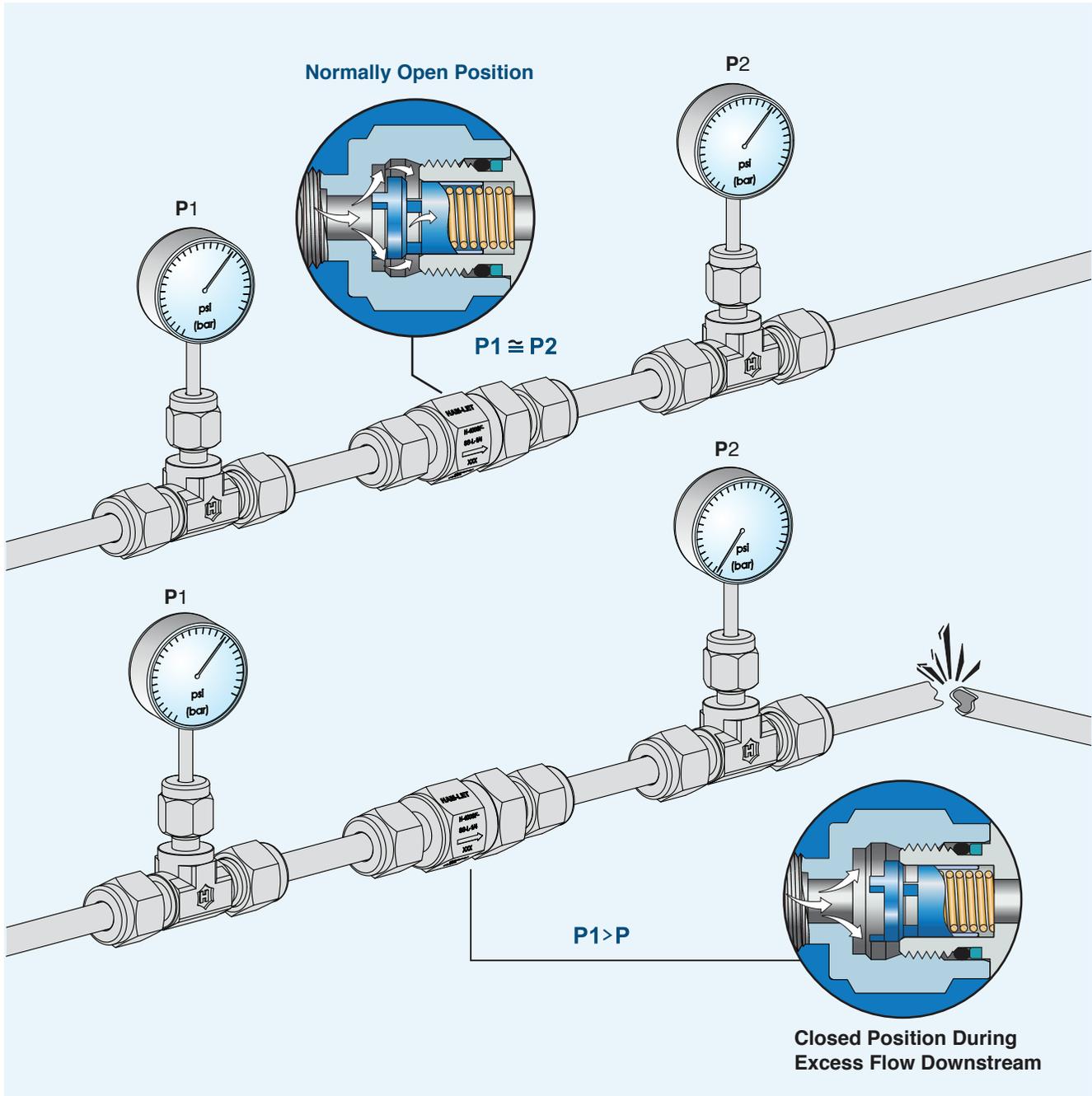
GENERAL

The poppet is loaded by a spring in a normally open position, as long as the system is balanced. If the system becomes unbalanced and the downstream pressure drops, the poppet moves towards the sealing area and prevents free, uncontrolled excess flow from the line. If the downstream pressure increases, the ventilation outlet ("bleeding") enables the system to balance the pressures (with the help of the spring) and reset the system. In this situation, the poppet reverts back to Normally Open.

EXCELLENT FOR AUTOMATIC SAFETY SHUTOFF IN A WIDE RANGE OF AREAS:

- Fuel systems
- Toxic media systems
- Gas systems
- Valued media systems
- Hydraulic & Pneumatic systems.

OPERATING PRINCIPLE



CLEANING & PACKAGING

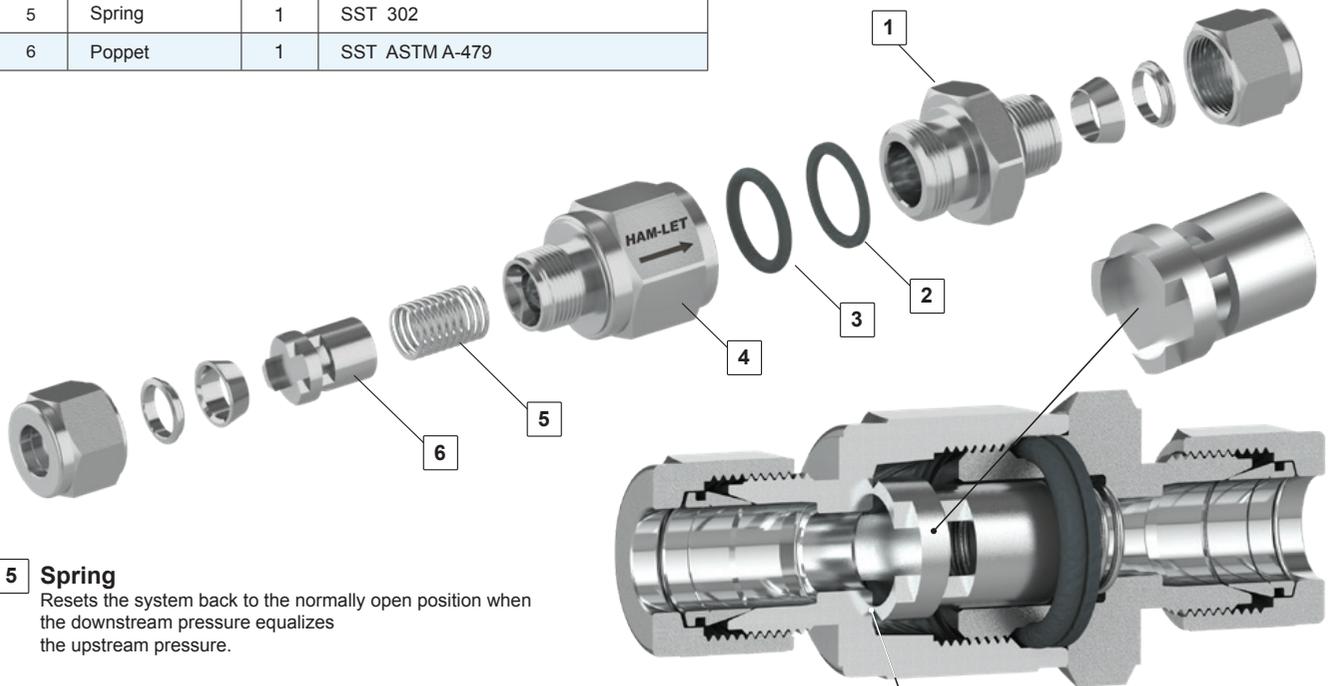
Every H-911 series excess flow valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant-Free Cleaning and Packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

TESTING

The design of the H-911 Valves has been tested for proof and burst. Every H-911 valve is factory tested for proper assembly with Nitrogen at 1000 psig (68 bar). No detectable leakage is allowed during shell test.

MATERIALS OF CONSTRUCTION

| Item. | Components | Qty. | Valve Body Material |
|-------|------------|------|---------------------|
| 1 | Cap | 1 | SST ASTM A-479 |
| 2 | O-ring | 1 | Fluorocarbon FKM |
| 3 | O-ring | 1 | Fluorocarbon FKM |
| 4 | Body | 1 | SST ASTM A-479 |
| 5 | Spring | 1 | SST 302 |
| 6 | Poppet | 1 | SST ASTM A-479 |



5 Spring

Resets the system back to the normally open position when the downstream pressure equalizes the upstream pressure.

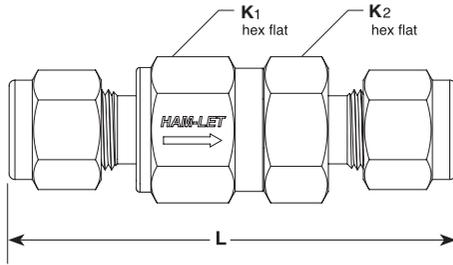
6 Poppet

- Produced from stainless steel.
- Enables high flow rates.
- Improves reliability and performance.

Metal Sealing

Improves stability and repeatability.
Does not require maintenance.

STANDARD CONFIGURATION DIMENSIONS



| End Connection | | Dimensions: inch (mm) | | |
|-----------------------------------|-------|-----------------------|-------|-------|
| Type | Size | L | K1 | K2 |
| LET-LOK® tube fittings | 1/4" | 2.43 (61.7) | 11/16 | 11/16 |
| | 3/8" | 2.75 (69.9) | 1 | 1 |
| | 1/2" | 2.97 (75.4) | | |
| | 6 mm | 2.43 (61.7) | 11/16 | 11/16 |
| | 8 mm | 2.70 (68.6) | 1 | 1 |
| | 10 mm | 2.80 (71.1) | 1 | 1 |
| | 12 mm | 2.96 (75.2) | | |
| Female NPT | 1/8" | 1.87 (47.5) | 11/16 | 11/16 |
| | 1/4" | 2.12 (53.8) | 11/16 | 11/16 |
| | 3/8" | 2.55 (64.8) | 1 | 1 |
| | 1/2" | 3.03 (77.0) | 1 | 1 |
| Male NPT | 1/8" | 1.79 (45.5) | 11/16 | 11/16 |
| | 1/4" | 2.17 (55.1) | | |
| | 3/8" | 2.36 (59.9) | 1 | 1 |
| | 1/2" | 2.73 (69.3) | | |
| Male NPT to LET-LOK tube fittings | 1/4" | 2.30 (58.4) | 11/16 | 11/16 |
| | 3/8" | 2.56 (65.0) | 1 | 1 |
| | 1/2" | 2.85 (72.4) | | |
| Male to female NPT | 1/4" | 2.13 (54.1) | 11/16 | 11/16 |
| | 3/8" | 2.46 (62.5) | 1 | 1 |
| | 1/2" | 2.89 (73.4) | 1 | 1 |
| Male face seal | 1/4" | 2.28 (57.9) | 11/16 | 11/16 |
| | 1/2" | 2.73 (69.3) | 1 | 1 |

Dimensions are for reference only and are subject to change.

PRESSURE TEMPERATURE RANGES FOR 316 ST.ST

| Temperature F° (C°) | Working Pressure, psi (bar) |
|-----------------------|-----------------------------|
| -10 (-23) to 100 (37) | 6000 (413) |
| 200 (93) | 5160 (355) |
| 250 (121) | 4910 (338) |
| 300 (148) | 4660 (321) |
| 400 (204) | 4280 (294) |

PRESSURE TEMPERATURE RANGES

| O-ring Material | Temperature Rating F° (C°) |
|----------------------|----------------------------|
| Fluorocarbon FKM | -15° to 400 (-26 to 204) |
| Buna-N | -40° to 250 (-40 to 121) |
| Ethylene propylene | -50° to 300 (-45 to 148) |
| Perfluor | -10° to 400 (-23 to 204) |
| Polychloroprene (CR) | -40° to 250 (-40 to 121) |

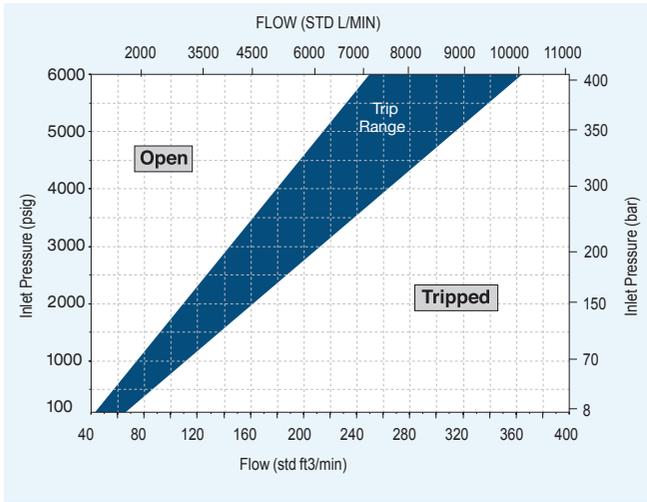
Fluorocarbon FKM O-Rings are standard.
For other O-Ring materials, see ordering information.
For O-Ring materials that are not in this table, please consult a UCT representative.

- 5000 psi (344 bar) for the H-911 Series with end connection 3/8 NPT female.
- 4600 psi (316 bar) for the H-911 Series with end connection 1/2 NPT female.

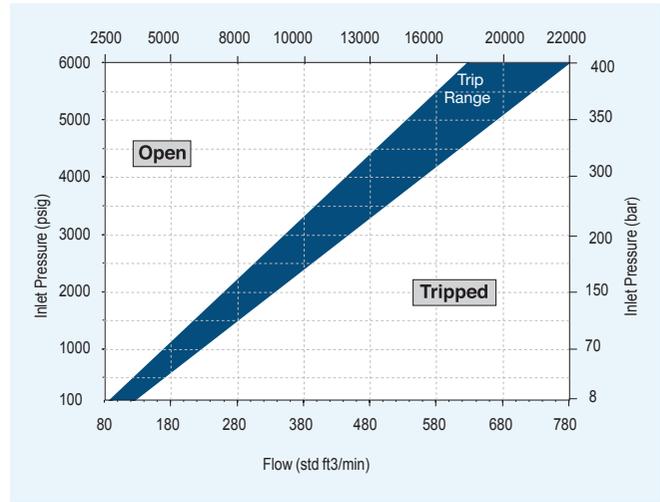
FLOW DATA AT 70°F (20°C)

For springs with other trip ranges, consult a UCT FLUID SOLUTIONS representative.

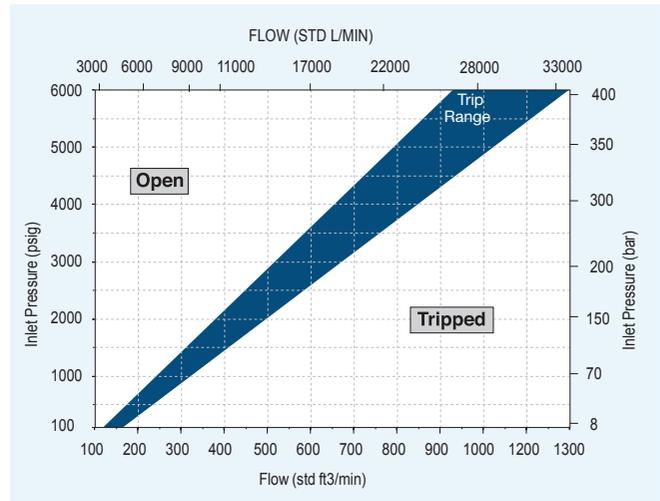
AIR FLOW - CONNECTION SIZES: 1/4", 6MM



AIR FLOW - CONNECTION SIZES: 3/8", 10MM



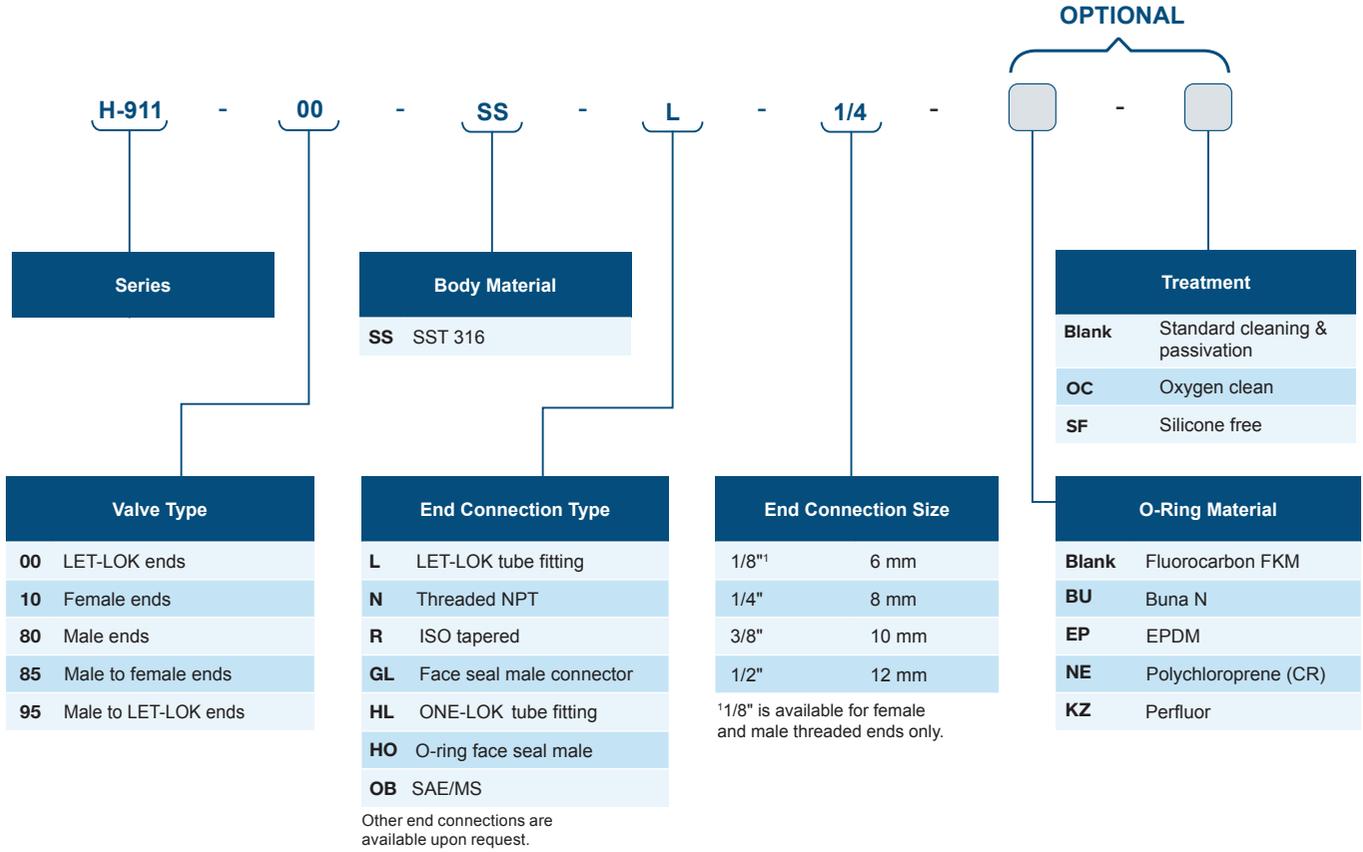
AIR FLOW - CONNECTION SIZES: 1/2", 12MM



WATER FLOW

| Connection Size | CV | Trip Range U.S. gal/min (L/min) |
|------------------|-----|------------------------------------|
| 1/8", 1/4", 6mm | 0.5 | 3.9 to 5.8 (14.7 to 21.9) |
| 3/8", 8mm", 10mm | 1.1 | 8.2 to 10.0 (31.0 to 37.9) |
| 1/2", 12mm | | 11.2 to 14.9 (42.4 to 56.4) |

ORDERING INFORMATION - H-911 SERIES



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.