

Hy-Lok RV Series

Relief Valves

Catalog No. H-RV100
Jan. 2002

| RV 1 Series Low Pressure Relief Valve | RV 2 Series High Pressure Relief Valve | | |
|---|--|--|--|
| | | | |
| <h3 style="color: #0070c0;">Technical Data</h3> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> • Cracking Pressure Range : 10~250psig to atmosphere • Max.Working Pressure : 300psig • Operating Temperature Range : -10°F~400°F(-23°C~204°C) • Orifice Size : 4.8mm (0.19in) • One Spring adjustable over entire cracking pressure range, blue-color spring standard • Cracking Pressure is affected by the outlet pressure </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> • Cracking Pressure Range : 225~6000psig to atmosphere • Max.Working Pressure : 6000psig • Operating Temperature Range : -10°F~400°F(-23°C~204°C) • Orifice Size : 4.8mm (0.19in) • Various Springs are available as below mentioned. • Cracking Pressure is not affected by the outlet pressure. </td> </tr> </table> | | <ul style="list-style-type: none"> • Cracking Pressure Range : 10~250psig to atmosphere • Max.Working Pressure : 300psig • Operating Temperature Range : -10°F~400°F(-23°C~204°C) • Orifice Size : 4.8mm (0.19in) • One Spring adjustable over entire cracking pressure range, blue-color spring standard • Cracking Pressure is affected by the outlet pressure | <ul style="list-style-type: none"> • Cracking Pressure Range : 225~6000psig to atmosphere • Max.Working Pressure : 6000psig • Operating Temperature Range : -10°F~400°F(-23°C~204°C) • Orifice Size : 4.8mm (0.19in) • Various Springs are available as below mentioned. • Cracking Pressure is not affected by the outlet pressure. |
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Features

- **Compact body** for installation in small space
- **Cracking pressure** adjustable externally
- **Lock wire capability** to maintain pressure relief setting
- **100% factory tested** crack and reseal performance

Materials of Construction

- **Body Material** : Stainless Steel 316 (standard)
- **Seal** : Viton (standard)
- **Spring** : SS302 (standard)
- **Cap** : Polypropylene (standard)

Valve Operation and Adjusting Cracking pressure

To increase the cracking pressure, turn the cracking pressure adjusting nut clockwise making the spring more compressed.

RV2 Series Spring and Cracking Pressure

| Spring Designator | Cracking Pressure | | | |
|-------------------|-------------------|-------------|---------------|--------|
| | psig | bar | kPa | Color |
| A | 225 - 750 | 15.5 - 51.5 | 1550 - 5150 | Yellow |
| B | 750 - 1500 | 51.5 - 103 | 5150 - 10300 | Purple |
| C | 1500 - 2250 | 103 - 155 | 10300 - 15500 | Orange |
| D | 2250 - 3000 | 155 - 206 | 15500 - 20600 | Brown |
| E | 3000 - 4000 | 206 - 275 | 20600 - 27500 | White |
| F | 4000 - 5000 | 275 - 344 | 27500 - 34400 | Red |
| G | 5000 - 6000 | 344 - 414 | 34400 - 41400 | Green |



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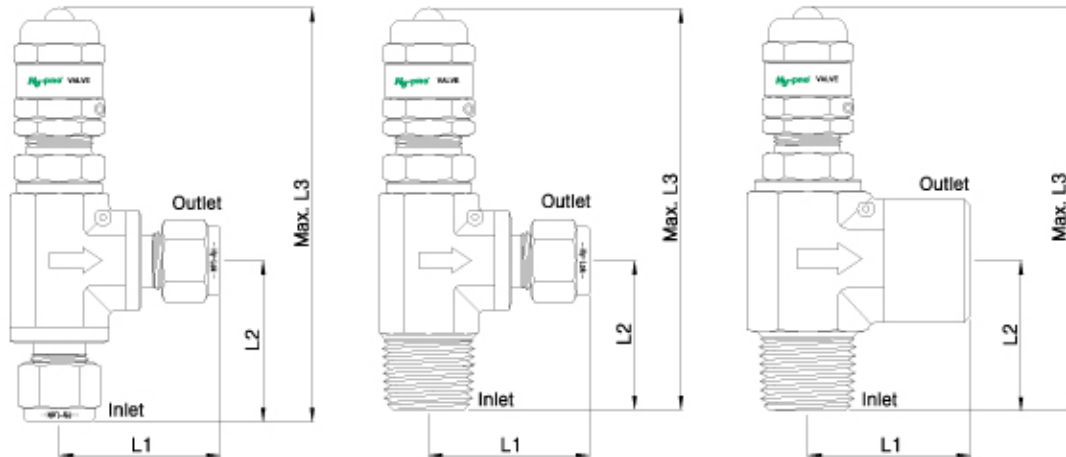


Table of Dimensions

| Basic Part No. | | Orifice | End Connections | | Dimensions | | |
|------------------|----|---------|-----------------|-----------------|------------|-------|-------|
| | | | Inlet | Outlet | L1 | L2 | L3 |
| RV1 or RV2 | H | -4 T- | 1/4" Hy-Lok | 1/4" Hy-Lok | 38.7 | 37.3 | 104.6 |
| | H | -6M- | 6mm Hy-Lok | 6mm Hy-Lok | | | |
| | H | -8M- | 8mm Hy-Lok | 8mm Hy-Lok | | | |
| | H | -8 T- | 1/2" Hy-Lok | 1/2" Hy-Lok | 46.7 | 46.7 | 114.0 |
| | H | -12M- | 12mm Hy-Lok | 12mm Hy-Lok | | | |
| | MH | -8N8T- | 1/2" Male NPT | 1/2" Hy-Lok | | | |
| | MH | -8N12M- | 1/2" Male NPT | 12mm Hy-Lok | 35.7 | 103.0 | |
| | MF | -4N- | 1/4" Male NPT | 1/4" Female NPT | 30.0 | 32.2 | 99.5 |
| | MF | -6N- | 3/8" Male NPT | 3/8" Female NPT | 34.5 | | |
| | MF | -8N- | 1/2" Male NPT | 1/2" Female NPT | 38.0 | 35.7 | 103.0 |

All dimensions are in millimeters.

Ordering Information

RV2

MH

8N

8T

B

S316

Series Designator

- RV1 : Low Pressure
- RV2 : High Pressure

End Connection Designator

- H : Both End Hy-Lok Tube Fitting
- MH: Male Pipe Thread & Hy-Lok Tube Fitting
- MF : Male Pipe Thread & Female Pipe Thread

Size Designator
Inlet Outlet

| | | | |
|-------------|-------|-------|-------|
| Thread(in.) | 1/4 | 3/8 | 1/2 |
| Designator | 4N(R) | 6N(R) | 8N(R) |

Spring / Cracking Pressure Designator*

- A : 225 - 750 psig
- B : 750 - 1500 psig
- C : 1500 - 2250 psig
- D : 2250 - 3000 psig
- E : 3000 - 4000 psig
- F : 4000 - 5000 psig
- G : 5000 - 6000 psig

Body Material Designator

- S316 : 316 Stainless Steel

• NPT (ISO/BSP)

| | | | | |
|-----------------|------------|-----|-----|-----|
| Fractional Tube | O.D.(in.) | 1/4 | 3/8 | 1/2 |
| | Designator | 4T | 6T | 8T |
| Metric Tube | O.D.(mm) | 6 | 8 | 12 |
| | Designator | 6M | 8M | 12M |

• Tube

Note * : No spring / cracking pressure designator is required for RV1 low pressure series valves.

■ QUALITY SYSTEM CERTIFICATES



ISO 9001
CERTIFICATE NO.GQC 212

ASME SECT II (MC)
CERTIFICATE NO. GSC 584

■ TYPE APPROVALS (For Hy-Lok Tube Fittings)



American Bureau Shipping
CERTIFICATE NO.00-BK50288-X



Lloyd's Register
CERTIFICATE NO.01/10075



GERMANISCHER LLOYD
CERTIFICATE NO.57798-91 HH



DET NORSKE VERITAS
CERTIFICATE NO.P-9100

SAFETY in VALVE SELECTION

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.



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