

14-6807-6011-A2 Aircraft Tire Pressure Gauge

This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., its suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur.

WARNING!

- The maximum operating pressure for this gauge assembly is 300 psi (20.7 bar)
 This gauge assembly is NOT Skydrol resistant
 - 3. Pressure relief set at 90 psi (6.0 bar)

GAUGE CALIBRATION: The pressure gauge is to be calibrated annually or as required. Reference Instrument Certification Notice.

GUARANTEES/LIMITATION OF LIABILITY

Tronair products are warranted to be free of manufacturing or material defects for a period of one year after shipment to the original customer. This is solely limited to the repair or replacement of defective components. This warranty does not cover the following items:

- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

If you have a problem that may require service, contact Tronair immediately. Do not attempt to repair or disassemble a product without first contacting Tronair, any action may affect warranty coverage. When you contact Tronair be prepared to provide the following information:

- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA in advance of returning an item will result in a service fee. A decision on the extent of warranty coverage on returned products is reserved pending inspection at Tronair. Any shipments to Tronair must be shipped freight prepaid. Freight costs on shipments to customers will be paid by Tronair on any warranty claims only. Any unauthorized modification of the Tronair products or use of the Tronair products in violation of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied.

The obligations of Tronair expressly stated herein are in lieu of all other warranties or conditions expressed or implied. Any unauthorized modification of the Tronair products or use of the Tronair products in violations of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied and Tronair disclaims any and all liability for injury (WITHOUT LIMITATION and including DEATH), loss or damage arising from or relating to such misuse.



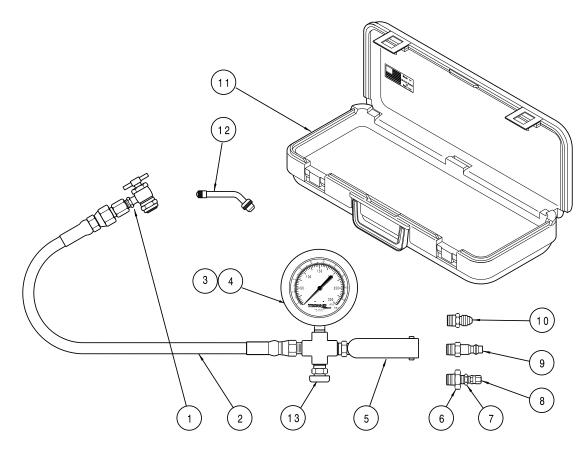
For Spare Parts, Operations & Service Manuals or Service Needs Scan the QR code or visit Tronair.com/aftermarket

Tronair, Inc. 1 Air Cargo Pkwy East Swanton, OH 43558



Parts List

When ordering Replacement Parts/Kits, please specify Model, Color and Serial Number of your Unit



| ltem | Part Number | Description | Qty |
|------|-------------|---|-----|
| 1 | PC-1007 | Connector, High Pressure | 1 |
| 2 | H-2016-06 | Hose, 19 inches (48 cm) long | 1 |
| 3 | H-2016-01 | Gauge, 0-300 psi (20.7 bars) with Rubber Boot | 1 |
| 4 | H-2153 | Boot, Gauge | 1 |
| 5 | H-2016-09 | Valve, Hand Trigger | 1 |
| 6 | N-2210-02-S | Reducer, Pipe Thread (¼ x ¹ /8) | 1 |
| 7 | PC-1073 | Valve, High Pressure Strut | 1 |
| 8 | PC-1074 | Cap, High Pressure Strut Valve | 1 |
| 9 | H-2016-10 | Disconnect, Quick | 1 |
| 10 | N-2009-04-S | Connector, Male | 1 |
| 11 | H-2262-05 | Assembly, Replacement Box | 1 |
| 12 | PC-1101 | Extension, Bent Metal | 1 |
| 13 | PC-1132 | Valve, Pressure Relief (set @ 90 psi) | 1 |

For Spare Parts, Operations & Service Manuals or Service Needs Scan the QR code or visit Tronair.com/aftermarket





Instrument Certification Notice

The gauge Certificates of Calibration supplied for the gauge(s) on this unit contain the calibration data for the actual instrument calibrated, along with the calibration date of the standard used to perform the calibration check.

The due date for re-calibration of the instrument should be based upon the date the instrument was placed in service in your facility. Re-calibration should be done on a periodic basis as dictated by the end user's quality system or other overriding requirements.

Note that Tronair, Inc. does not supply certificates of calibration on flow meters or pyrometers unless requested at the time of placed order. These instruments are considered reference indicators only and are not critical to the test(s) being performed on the aircraft.







Statement of Compliance

Tronair has assessed the equipment described below against the Requirements of the Directive listed below. Based on Article 4, Section 3 of the directive, the equipment shall not carry the CE mark.

This equipment has been designed and manufactured in accordance with Sound Engineering Practice.

This statement of compliance is issued under the sole responsibility of the manufacturer.

Product Type/Name: Aircraft Tire Pressure Gauge

Directive: Pressure Equipment Directive 2014/68/EU, Article 4: Section 3 Without prejudice to other applicable Union harmonization legislation providing for its affixing, such equipment or assemblies shall not bear the CE marking.

Identification of person empowered to sign on behalf of the Manufacturer:

tunch

Quality Assurance Representative









Tronair, Inc. 1 Air Cargo Pkwy East Swanton, OH 43558

Phone: (419) 866-6301 | 800-426-6301 Web: www.tronair.com Email: sales@tronair.com

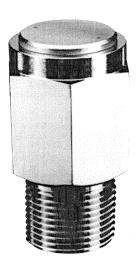


APPENDIX I

500 Series Relief Valves



Adjustable Popoff & Inline Relief Valves 0.5 to 150 psig (10 bar)



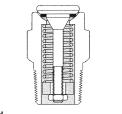
Features

| I COLOTOS | |
|---|---|
| Popoff or inline valves | |
| Adjustable crack pressu | re |
| Zero leakage | |
| Optional factory preset | · · · |
| Accurate set pressure | |
| Wide range of cracking | pressure |
| Tamper-proof adjustme | nt |
| 100% seat leakage teste | |
| PED certifications and C | E marking available for most models |
| Applications | |
| System overpressure | protection |
| Storage tanks | |
| Freon[®] recovery system | ms |
| Medical equipment | |
| Refrigeration & heating | ng equipment |
| Measuring & dispensi | ng pumps |
| Communications equ | |
| Process control instru | ments |
| R & D pilot plants | |
| Vacuum pump safety | · . |
| Technical Data | |
| | Aluminum, brass, 303 or 316 stainless steel |
| | Buna N, ethylene propylene, neoprene, silicone, Feflon®, or Viton® |

| | Teflon*, or Viton* |
|-----------------------------|---|
| Spring Materials | 302 stainless steel or 17-7 PH stainless steel |
| Operating Pressure | Vacuum to 200 psig (14 bar) |
| Inline Valve Proof Pressure | 400 psig (28 bar) |
| Inline Valve Burst Pressure | Above 500 psig (34 bar) |
| Temperature Range | -320° F to +400° F (-196° C to +204° F) |
| | Based on o-ring & body material, see "How to Order" |
| Connection Sizes | 1/8 inch to 11/4 inch |

Note: Proper filtration is recommended to prevent damage to sealing surfaces.

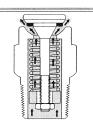
How it Works



Closed Resilient seal design prevents leakage. Sealing efficiency increase with increased pressure up to cracking pressure. Metal-tometal poppet stop supports spring load, prevents sticking.

Circle Seal Controls

2301 Wardlow Circle, Corona, CA 92880 Phone (951) 270-6200 Fax (951) 270-6201 www.circle-seal.com



Open When system pressure overcomes spring force, poppet opens. As pressure continues to rise, variable orifice between poppet and body increases, allowing greater flow.

Reseating

Resilient seal automatically establishes line of contact with spherical seat. Seal provides zero leakage at reseat.

Flow at Cracking Pressure

Elastomeric seals: 5cc/min Teflon®: 0.02 scfm

Cracking Pressure Tolerance: ±5%

Cracking pressure on initial crack may be higher than cracking pressure tolerance due to inherent characteristics of seals. Cracking pressure tolerance will be greater than $\pm 5\%$ if set pressure is ≤ 1 psi. (Consult factory)

Leakage, Ascending Pressure

Standard seals: 0 to 95% of cracking pressure Silicon & EPR: 0 to 80% of cracking pressure Teflon®:

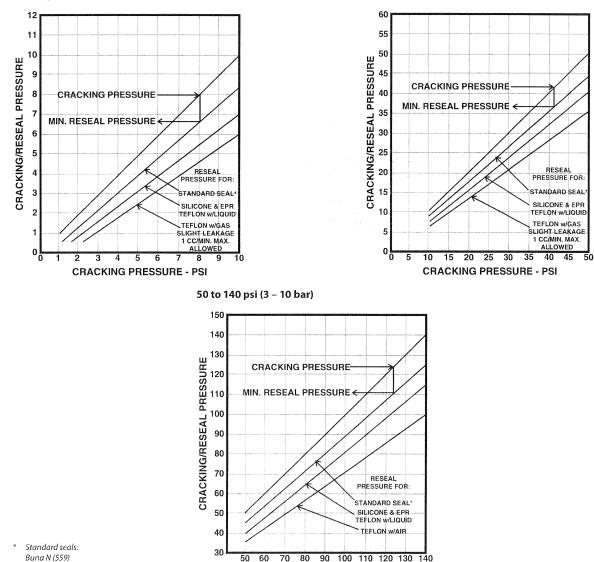
- Cracking pressures up to 2.4 psi: 4cc/min at 0 to 50% of cracking pressure
- Cracking pressures 2.5 psi and higher: 1cc/min at 0 to reseat pressure, 10cc/min from reseat to 90% of cracking pressures

Leakage at Reseat Pressure

All elastomeric seals: Zero

Teflon®: 1cc/min for cracking pressures 2.5 psi and higher

10 to 50 psi (0.7 – 3 bar)



50

CRACKING PRESSURE - PSI

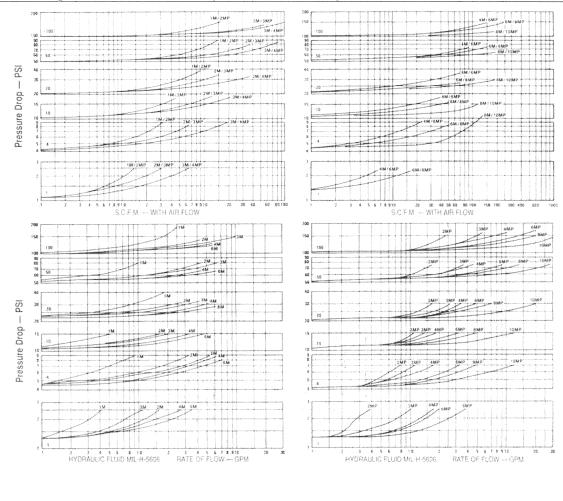
0 to 10 psi (0.7 bar)

Viton® (532)

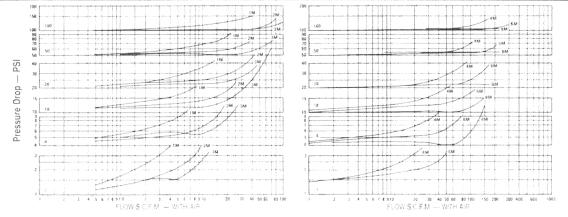
Neoprene (533)

2 Circle Seal Controls Relief Valves





Air Flow Curves (D500-M) Popoff Relief Valves





Air Flow Rates (500–M and – MP)

| Crack | Percent Over Pressure Beyond Cracking (SCFM air at room temperature) | | | | | | | | | | | |
|----------|---|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| Pressure | 10% | | | 25% | | | 50% | | | | | |
| PSIG | 1M/2MP | 2M/3MP | 3M/4MP | 1M/2MP | 2M/3MP | 3M/4MP | 1M/2MP | 2M/3MP | 3M/4MF | | | |
| 0.5 | .08 | .08 | .08 | .12 | .17 | .45 | .14 | .60 | 1.1 | | | |
| 1 | .10 | .10 | .10 | .17 | .35 | .65 | .20 | .80 | 1.6 | | | |
| 1.5 | .12 | .12 | .15 | .25 | .46 | .90 | .40 | 1.0 | 2.0 | | | |
| 2 | .15 | .14 | .20 | .34 | .62 | 1.2 | .63 | 1.4 | 2.5 | | | |
| 2.5 | .17 | .17 | .30 | .42 | .75 | 1.5 | .80 | 1.8 | 3.1 | | | |
| 3 | .20 | .21 | .40 | .50 | .85 | 1.7 | 1.1 | 2.2 | 3.6 | | | |
| 4 | .23 | .24 | .50 | .70 | 1.05 | 2.0 | 1.5 | 3.0 | 5.4 | | | |
| 5 | .28 | .30 | .50 | .86 | 1.3 | 2.2 | 1.7 | 3.7 | 6.0 | | | |
| 10 | .60 | .70 | .60 | 1.65 | 3.2 | 3.8 | 3.2 | 7.0 | 11 | | | |
| 15 | .80 | 1.2 | 1.6 | 2.3 | 4.2 | 8.5 | 4.2 | 8.5 | 20 | | | |
| 20 | 1.1 | 1.5 | 2.5 | 2.9 | 5.0 | 11.5 | 5.2 | 10 | 28 | | | |
| 25 | 1.2 | 2.0 | 3.0 | 3.4 | 7.9 | 15 | 6.0 | 14 | 33 | | | |
| 30 | 1.6 | 2.4 | 4.0 | 4.0 | 10.1 | 19.5 | 7.0 | 18 | 36 | | | |
| 40 | 1.9 | 3.5 | 7.0 | 5.1 | 13 | 24.5 | 8.8 | 26 | 53 | | | |
| 50 | 2.3 | 4.4 | 9.0 | 6.0 | 15 | 29 | 10.6 | 32 | 60 | | | |
| 60 | 2.5 | 5.4 | 9.8 | 6.7 | 18 | 33 | 11.6 | 39 | 69 | | | |
| 70 | 2.9 | 6.6 | 10.9 | 7.5 | 22.5 | 38 | 12.7 | 47 | 79 | | | |
| 80 | 3.2 | 7.6 | 12 | 8.2 | 26 | 43 | 13.8 | 56 | 91 | | | |
| 90 | 3.6 | 8.7 | 13.5 | 9.0 | 30.5 | 47 | 14.9 | 66 | 101 | | | |
| 100 | 4.0 | 9.5 | 15 | 9.8 | 34 | 52 | 15.8 | 75 | 108 | | | |
| 110 | 4.4 | 11.3 | 17.5 | 10.2 | 38 | 53.5 | 17.0 | 77.5 | 114 | | | |
| 120 | 4.8 | 13.2 | 20.8 | 10.6 | 42.5 | 56.5 | 18.3 | 80 | 122 | | | |
| 130 | 5.2 | 14.9 | 24 | 11 | 47 | 58.5 | 19.6 | 83 | 131 | | | |
| 140 | 5.6 | 16.5 | 27.5 | 11.5 | 51 | 61.5 | 20.9 | 87 | 138 | | | |
| 150 | 6.0 | 18 | 30 | 12 | 56 | 63 | 22.0 | 90 | 145 | | | |

$M = Popoff valves, \frac{1}{8} - \frac{3}{8}; MP = Inline valves, \frac{1}{4} - \frac{1}{2}$

M = Popoff valves, ½ –1"; MP = Inline valves, ¾ –1¼"

| Crack | Percent Over Pressure Beyond Cracking (SCFM air at room temperature) | | | | | | | | | | |
|----------|---|--------|---------|--------|--------|---------|--------|--------|------------|--|--|
| Pressure | 10% | | | 25% | | | 50% | | | | |
| PSIG | 4M/6MP | 6M/8MP | 8M/10MP | 4M/6MP | 6M/8MP | 8M/10MP | 4M/6MP | 6M/8MP | 8M/10MP | | |
| .5 | .07 | .07 | | .50 | .50 | | .80 | 2.2 | | | |
| 1 | .10 | .10 | · | .70 | .70 | | 1.7 | 3.2 | | | |
| 1.5 | .30 | .30 | | 1.0 | 1.4 | | 2.2 | 5.5 | | | |
| 2 | .50 | .50 | | 1.2 | 1.7 | | 3.0 | 7.0 | | | |
| 2.5 | .60 | .60 | | 1.8 | 3.0 | | 4.2 | 10.5 | | | |
| 3 | .80 | .80 | - | 2.2 | 4.0 | | 5.0 | 13 | | | |
| 4 | 1.0 | 1.0 | 1.5 | 3.0 | 5.0 | 30 | 7.5 | 17 | 56 | | |
| 5 | 1.0 | 1.2 | 2.5 | 3.5 | 6.0 | 34 | 9.0 | 20 | 64 | | |
| 10 | 1.0 | 2.4 | 7.0 | 6.0 | 12 | 60 | 19 | 40 | 115 | | |
| 15 | 1.6 | 3.0 | 7.0 | 8.5 | 22 | 60 | 27 | 80 | 160 | | |
| 20 | 2.0 | 5.0 | 7.0 | 10 | 30 | 60 | 34 | 110 | 190 | | |
| 25 | 3.0 | 5.5 | 9.0 | 13.5 | 34 | 72 | 43 | 116 | - | | |
| 30 | 3.5 | 6.0 | 11.5 | 16 | 37 | 80 | 50 | 121 | 81.780.00F | | |
| 40 | 5.5 | 8.5 | 18 | 24 | 48 | 115 | 72 | 136 | | | |
| 50 | 7.0 | 10 | 23 | 30 | 56 | 140 | 90 | 150 | | | |
| 60 | 11 | 13 | 35 | 38 | 64 | 160 | 100 | 165 | | | |
| 70 | 15 | 17 | 59 | 47 | 72 | 185 | 111 | 182 | | | |
| 80 | 20 | 21 | 77 | 56 | 81 | 215 | 123 | 204 | | | |
| 90 | 26 | 26 | 88 | 68 | 94 | 235 | 138 | 225 | - | | |
| 100 | 30 | 30 | 100 | 75 | 105 | 250 | 150 | 240 | Nondoan | | |
| 110 | 33 | 38 | 115 | 80 | 112 | 258 | 166 | | | | |
| 120 | 37 | 47 | 132 | 86 | 125 | 270 | 183 | | | | |
| 130 | 41 | 57 | 150 | 93 | 150 | 282 | 201 | | | | |
| 140 | 46 | 71 | 175 | 102 | 163 | 290 | 222 | | | | |
| 150 | 50 | 80 | 190 | 110 | 175 | 300 | 240 | | | | |

4 Circle Seal Controls Relief Valves

Air Flow Rates (D500–M)

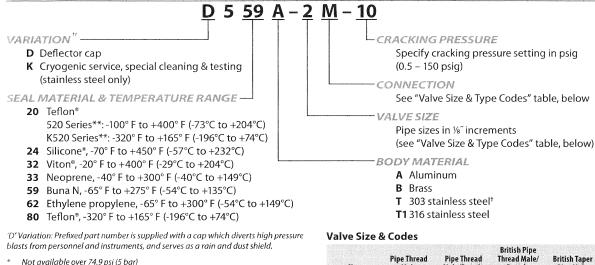
Popoff valves with deflector cap, $\frac{1}{8}$ - $\frac{3}{8}$

| Crack Pressure PSIG | Percent Over Pressure Beyond Cracking (SCFM air at room temperature) | | | | | | | | | | |
|---------------------------|---|-----|-----|------|------|-----|------|------|----------------|--|--|
| | 10% | | | 25% | | | 50% | | | | |
| | 1M | 2M | 3M | 1M | 2M | 3M | 1M | 2M | 3M | | |
| .5 | .12 | .20 | .15 | .24 | .50 | .50 | .44 | 1.2 | 1.1 | | |
| 1 | .21 | .30 | .30 | .40 | .85 | .85 | .73 | 2.0 | 1.9 | | |
| 1.5 | .21 | .30 | .30 | .42 | 1.0 | 1.0 | .80 | 2.7 | 3.1 | | |
| 2 | .21 | .30 | .30 | .45 | 1.2 | 1.2 | .95 | 3.5 | 5.0 | | |
| 2.5 | .22 | .30 | .30 | .49 | 1.3 | 1.3 | 1.1 | 4.3 | 6.2 | | |
| 3 | .23 | .30 | .30 | .52 | 1.6 | 1.6 | 1.25 | 5.4 | 8.0 | | |
| 4 | .23 | .30 | .30 | .58 | 2.1 | 2.1 | 1.5 | 7.5 | 12 | | |
| 5 | .32 | .30 | .30 | .60 | 2.2 | 4.5 | 1.7 | 8.3 | 14 | | |
| 10 | .70 | .34 | .40 | 1.6 | 2.5 | 14 | 3.2 | 12.6 | 23 | | |
| 15 | 1.4 | 1.3 | 1.5 | 2.0 | 6.0 | 18 | 3.9 | 16.5 | 29 | | |
| 20 | 1.8 | 2.2 | 3.0 | 2.7 | 10 | 23 | 5.4 | 21 | 36 | | |
| 25 | 1.9 | 3.0 | 8.0 | 2.8 | 11.5 | 27 | 6.0 | 23 | 40 | | |
| 30 | 2.0 | 4.0 | 14 | 3.0 | 14 | 32 | 7.0 | 27 | 47 | | |
| 40 | 2.3 | 5.9 | 26 | 3.5 | 18 | 42 | 9.0 | 33 | 59 | | |
| 50 | 2.4 | 8.0 | 39 | 3.8 | 25 | 54 | 10.5 | 40 | 74 | | |
| 60 | 3.2 | 17 | 43 | 4.6 | 33 | 62 | 11.4 | 46 | | | |
| 70 | 4.0 | 26 | 47 | 5.5 | 41 | 70 | 12.4 | 52 | | | |
| 80 | 4.9 | 36 | 52 | 6.4 | 50 | 79 | 13.7 | 59 | | | |
| 90 | 5.9 | 46 | 58 | 7.5 | 61 | 89 | 15 | 67 | | | |
| 100 | 7.0 | 56 | 65 | 8.5 | 72 | 100 | 16 | 76 | | | |
| 110 | 7.3 | 56 | 65 | 9.5 | 73 | 113 | 24 | 80 | | | |
| 120 | 7.7 | 57 | 66 | 12.8 | 74 | 127 | 33 | 84 | | | |
| 130 | 8.1 | 58 | 67 | 16.2 | 76 | 142 | 43 | 89 | | | |
| 140 | 8.6 | 59 | 68 | 20 | 78 | 158 | 53 | 96 | | | |
| 150 | 9.0 | 61 | 70 | 25 | 80 | 176 | 60 | 104 | and the second | | |

| Crack | Percent Over Pressure Beyond Cracking (SCFM air at room temperature) | | | | | | | | | | | | |
|----------|---|-----|-----|-----|-----|---|------|------|------|--|--|--|--|
| Pressure | | 10% | | | 25% | | | 50% | | | | | |
| PSIG | 4M | 6M | 8M | 4M | 6M | 8M | 4M | 6M | 8M | | | | |
| .5 | .15 | .15 | | .30 | .30 | | 1.0 | 1.0 | - | | | | |
| 1 | .30 | .30 | | .50 | .50 | | 1.7 | 1.7 | | | | | |
| 1.5 | .40 | .40 | | .60 | 1.5 | | 3.2 | 7.5 | | | | | |
| 2 | .50 | .60 | | .90 | 3.0 | | 5.0 | 14.5 | | | | | |
| 2.5 | .60 | .70 | | 1.1 | 4.0 | | 6.5 | 21 | | | | | |
| 3 | .70 | 1.0 | | 1.4 | 5.5 | | 9.0 | 29 | | | | | |
| 4 | 1.0 | 1.5 | | 3.0 | 9.0 | | 13 | 45 | | | | | |
| 5 | 1.0 | 1.8 | | 4.0 | 13 | | 15.5 | 49 | | | | | |
| 10 | 1.5 | 4.0 | 92 | 10 | 36 | 115 | 28 | 75 | 145 | | | | |
| 15 | 9.0 | 26 | 127 | 22 | 66 | and an | 42 | 101 | | | | | |
| 20 | 18 | 50 | 170 | 36 | 100 | - | 58 | 131 | | | | | |
| 25 | 21 | 60 | 173 | 43 | 112 | | 65 | | | | | | |
| 30 | 25 | 74 | 177 | 51 | 128 | | 74 | | - | | | | |
| 40 | 33 | 100 | 188 | 67 | 158 | | 91 | | | | | | |
| 50 | 42 | 130 | 200 | 85 | 195 | | 110 | | | | | | |
| 60 | 49 | 148 | 225 | 95 | 220 | | | | | | | | |
| 70 | 56 | 167 | 251 | 106 | 247 | | | | | | | | |
| 80 | 64 | 188 | 278 | 117 | 275 | | | | | | | | |
| 90 | 73 | 212 | 308 | 130 | 305 | | | | None | | | | |
| 100 | 85 | 240 | 340 | 145 | 340 | | | | No. | | | | |
| 110 | 89 | 246 | 355 | 152 | 347 | | | | | | | | |
| 120 | 93 | 253 | 372 | 159 | 355 | | | | | | | | |
| 130 | 98 | 261 | 390 | 167 | 363 | | | | | | | | |
| 140 | 103 | 270 | 415 | 176 | 375 | AND AND A STATE OF A ST | | | | | | | |
| 150 | 110 | 280 | 440 | 185 | 390 | | | | | | | | |

Circle Seal Controls Relief Valves 5

How to Order



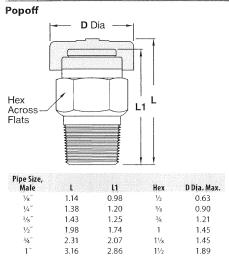
| Not available over 74.9 psr (5 bar) | Size | Male | Male/Female | Female | Pipe Male |
|---|-------|------|-------------|--------|-----------|
| ** 520 Series: Teflon* o-ring | 1⁄8″ | -1M | | | -1S |
| K520 Series: Polished Teflon® o-ring, cryogenic testing and serialization | 1/4" | -2M | -2MP | -2SX | -2S |
| 580 Series: Polished Teflon* o-ring | 3/8" | -3M | -3MP | -3SX | -3S |
| † Not available for PED applications | 1/2″ | -4M | -4MP | -4SX | -4S |
| †† Blank if not required | 3/4″ | -6M | -6MP | -6SX | -65 |
| | 1″ | -8M | -8MP | - | -85 |
| To specify PED certification, add PED prefix to the part number. | 11/4″ | | -10MP | | |

Please consult your Circle Seal Controls distributor or our factory for information on special connections, operating pressures and temperature ranges.

Repair Kits

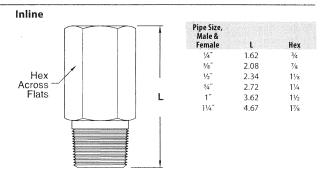
In normal service, the only part(s) which may require replacement is(are) the seal(s). A repair kit may be ordered by placing a "K/" in front of the complete part number (i.e. K/559A-2M-10).

Dimensions (Inches)



Freon[®] is a registered trademark of DuPont. Viton[®] is a registered trademark of DuPont Dow Elastomers. Teflon® is a registered trademark of the DuPont Company.

Circle Seal Controls Relief Valves 6



For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.



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