

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.



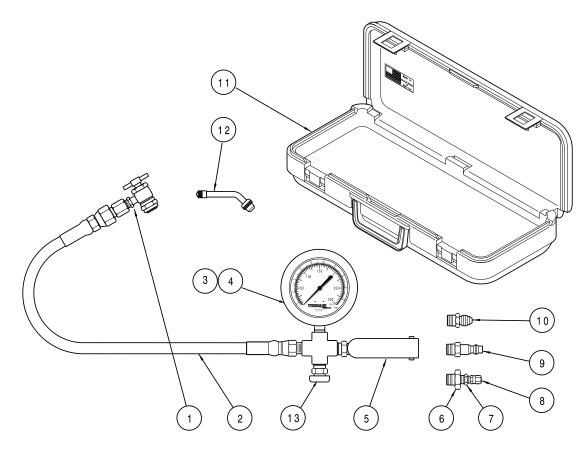
For Spare Parts, Operations & Service Manuals or Service Needs Scan the QR code or visit Tronair.com/aftermarket

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

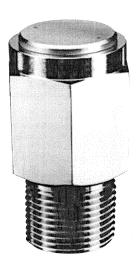


APPENDIX I

500 Series Relief Valves



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



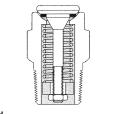
Features

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.

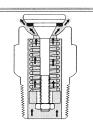
How it Works



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®:

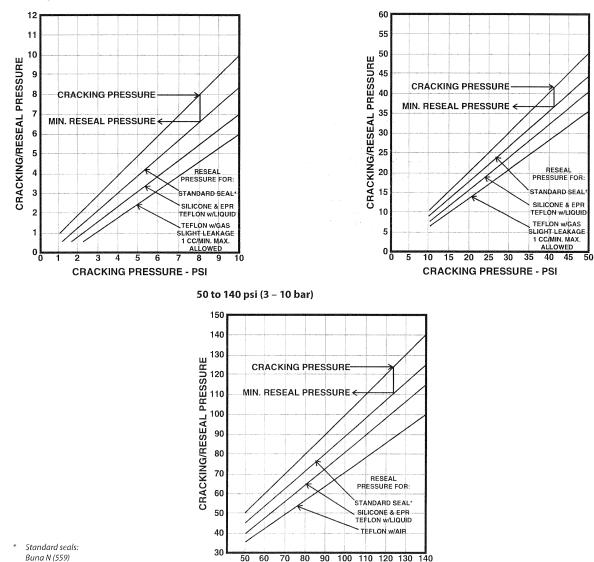
- Cracking pressures up to 2.4 psi: 4cc/min at 0 to 50% of cracking pressure
- Cracking pressures 2.5 psi and higher: 1cc/min at 0 to reseat pressure, 10cc/min from reseat to 90% of cracking pressures

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

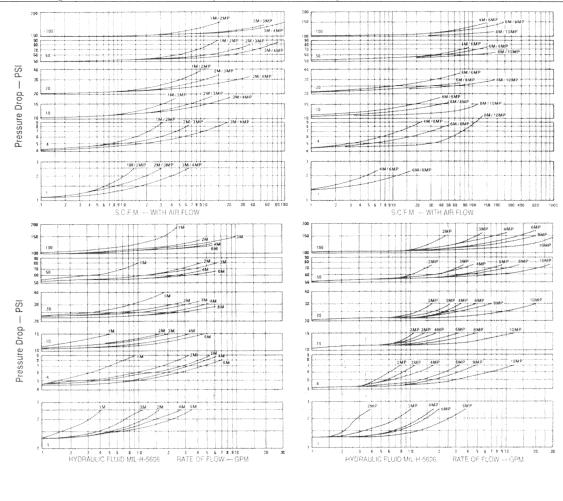
0 to 10 psi (0.7 bar)

Viton® (532)

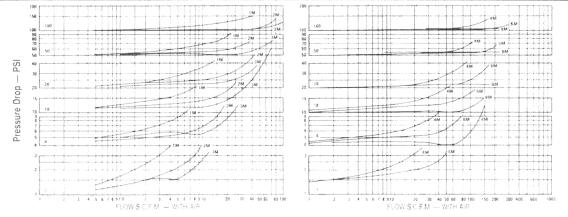
Neoprene (533)

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)

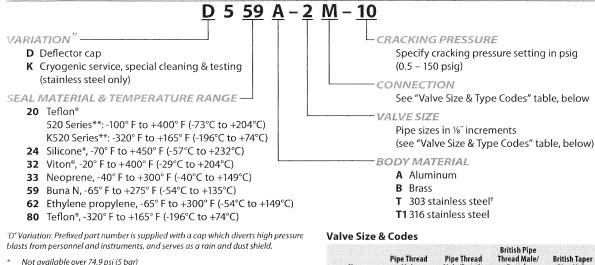
Popoff valves with deflector cap, $\frac{1}{8}$ - $\frac{3}{8}$

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



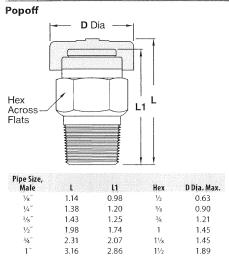
Not available over 74.9 psr (5 bar)	Size	Male	Male/Female	Female	Pipe Male
** 520 Series: Teflon* o-ring	1⁄8″	-1M			-1S
K520 Series: Polished Teflon® o-ring, cryogenic testing and serialization	1/4"	-2M	-2MP	-2SX	-2S
580 Series: Polished Teflon* o-ring	3/8"	-3M	-3MP	-3SX	-3S
† Not available for PED applications	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

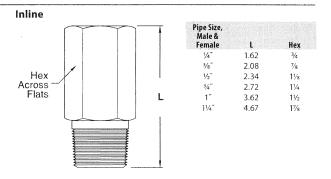
In normal service, the only part(s) which may require replacement is(are) the seal(s). A repair kit may be ordered by placing a "K/" in front of the complete part number (i.e. K/559A-2M-10).

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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Deicer Carts

AIRCRAFT TOOLING

Designed to your Specifications

LANDING GEAR (ATA-32)

Beadbreakers Dollies - Wheel & Brake Service Tools Strut Service Carts Regulators, Adaptors, Connectors & Gauges

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