

LF-550 SERIES - 'LOW FLOW' PRESSURE REDUCING REGULATOR PISTON SENSED FOR OUTLET CONTROL TO 414BAR / 6000PSI



SPECIAL FEATURES

- 690 bar / 10000 psi inlet pressure
- Precision machined sensing elements
- Load bearings and large handwheel for low torque adjustment
- Excellent sensitivity
- Self venting and non venting options

DESCRIPTION

Designed with precision machined sensing elements to allow fine pressure control on pressures up to 414 bar. Two piston sensors combined with two spring ranges, provide 4 outlet control options with a combination of low torque adjustment and excellent sensitivity. A self venting design and optional ratio loaded actuator makes it an ideal regulator for use with electro-pneumatic controllers for automated pressure control.

APPLICATION

- Test and calibration systems
- Aircraft charging carts
- Diving applications
- Automated pressure cycling
- Gas assisted plastic injection systems

TECHNICAL DATA

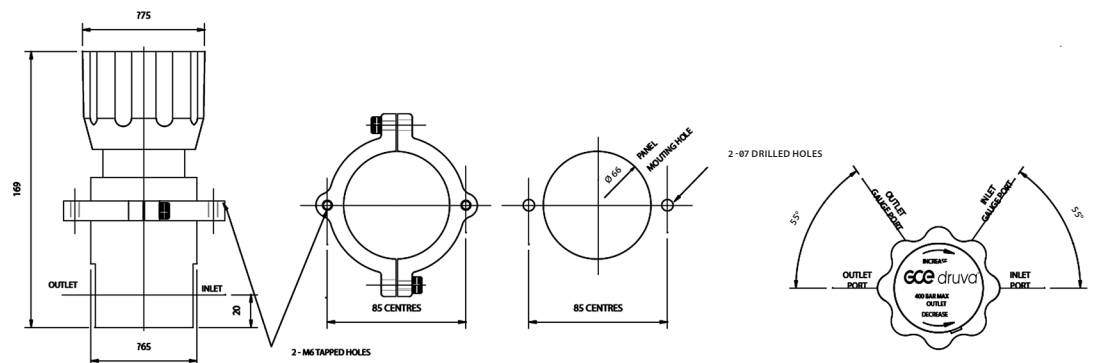
| | |
|--------------------------|---|
| Max rated inlet pressure | 690 bar (10000psi) |
| Outlet ranges | up to 414bar (6000psi) |
| Design Proof pressure | 150% max WP |
| Leakage | Bubble tight at max WP (tested on Nitrogen) |
| Weight | 2.9kg (6.4lbs) |

STANDARD MATERIALS OF CONSTRUCTION

| | |
|--------------------------------------|--------------------|
| Body and Bonnet/Main valve pin | 316SS |
| Seat | PEEK |
| Valve spring | Inconel X750 |
| Sensor and Holder | 316SS |
| Handwheel | Nylon |
| Valve Cage and Seat Nut/Spring rests | 316SS |
| 'O' ring seals | NBR, Viton or EPDM |
| Adjusting screw | Alu Bronze |
| Loading Spring Spring | Steel |
| Lubricant | Krytox GPL 205 |

NOTE: Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues.

INSTALLATION DIMENSIONS:



ORDER CODE

| Basic Model | Cv Value | Body material | Outlet ranges (Examples*) | O Ring | Inlet/outlet connections | Porting configuration | Venting Options |
|--------------|----------------------|---------------|---|----------------------------------|------------------------------|---|---------------------------------------|
| LF550 | 01 | SS | 414S | N | 02N | N | SV |
| LF550 | 01 – 0.1 02 – 0.2 | SS – 316SS | 50S: 0-50 bar/0-726 psi 100S: 0-100 bar/0-1451 psi 200S: 0-200 bar/0-2901 psi 414S: 0-414 bar/0-6005 psi 140A: 0-140 bar/0-2031 psi (Air actuated) 600A: 0-600 bar/0-8702 psi (Air actuated) | N - NBR V - Viton E - EPDM | 02N – ¼"NPT 03N – 3/8"NPT | Check Page 47 = Gauge Port locations | SV – Self Venting NV – Non Venting |

PERFORMANCE CHARTS

