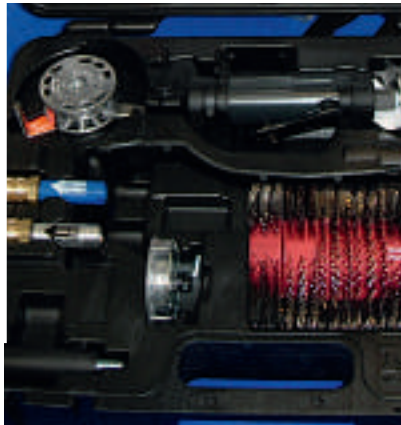


ToolReg®

In-line pre-set regulator with automatic secondary pressure relief.



Don't let overpressure ruin your performance!

Overpressure in air tools leads to earlier wear and tear and break down. The result is expensive production stops and waste of energy.

The ToolReg® regulator is an independent piston regulator that can be mounted on any pneumatic tool or installed in every compressed air system. It supplies a constant, exact outlet pressure regardless of the inlet pressure. The pressure is factory-set and cannot be changed.

The ToolReg® prevents *dynamic pressure waste*. This arises when the pressure and flow at the withdrawal point are unnecessarily higher than those specified by the manufacturer to achieve the desired function. *Dynamic pressure waste* is extremely costly, a waste of energy that may be found throughout industry.

For pneumatic tools the ToolReg® must be mounted directly on the tool in order to ensure correct pressure, so that possible pressure drops in hoses, tubes etc. do not influence the pressure on the tool itself. Furthermore, the residual pressure in the tool is relieved when it is removed from the compressed air supply line, preventing unintentional actuation of the tool with disastrous consequences.

Pre-set regulators are an economical path to achieve the ideal pressure in the tool (please



ToolReg[®]

In-line pre-set regulator with automatic secondary pressure relief.

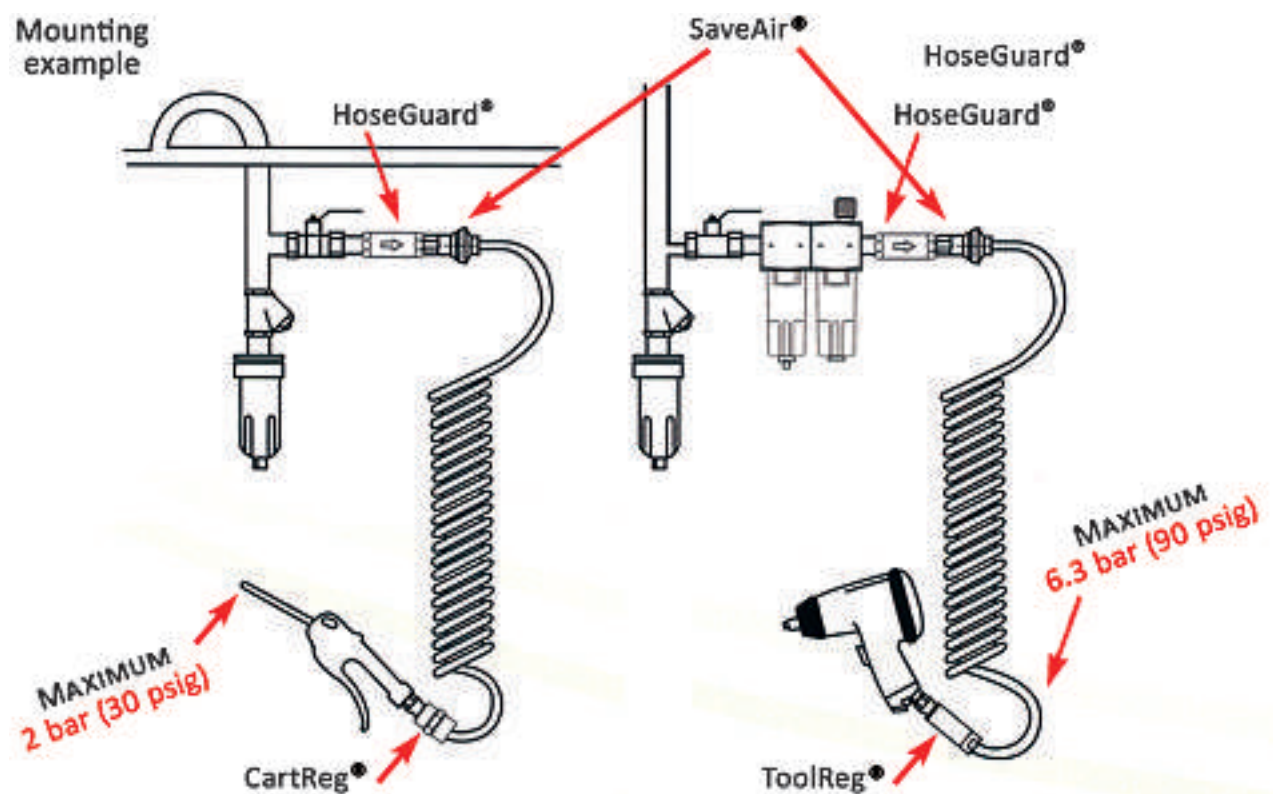
Product Benefits

- Automatic secondary pressure relief
- Protection guaranteed – no residual pressure in the tool
- High flow performance (0 – 3.000 Ltrs./Min/0 – 105 scfm)
- High pressure performance (P1 – inlet pressure up to 25 bar/355 psig)
- Corrosion resistant
- Supplies tools exclusively with the specified pressure
- No pressure gauge needed
- Prevents compressed air waste
- Saves energy – reduces costs
- Highly reliable
- Locked to prevent pressure change – tamper proof
- Light weight – small and compact size
- Increases tool service life

Applications:

- In situations where small amounts of compressed air are required but the pressure and flow must be stringently regulated
- Pneumatic tools
- Particular nailers, tackers etc.
- Furniture, construction and precision engineering trades
- Piping and compressed air systems
- Compressed air used in automation for actuation
- Control, feeding or transportation
- Pick and place units in automatic assembly systems

Installation example:



Technical Data and Ordering Information



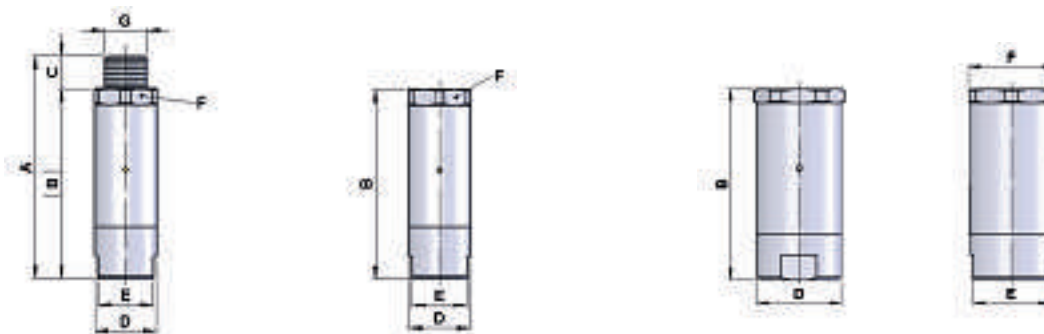
ToolReg® – In-Line Pre Set Regulator

Installation: The regulator ensures that a constant pressure is always maintained, despite the normal pressure fluctuations in a system. The regulator is intended for use with compressed air or neutral gases. The ToolReg® must be mounted directly on the pneumatic tool in order to ensure correct pressure, so that possible pressure drops in hoses, tubes etc. do not influence the pressure on the tool itself. Furthermore, the residual pressure in the tools is relieved when it is removed from the compressed air supply line, pre-venting unintentional actuation of the tool with disastrous consequences.

| Thread Connection | Outlet Pressure | Tolerances* (at 10 ltrs./Min) | Flow Ltrs./min - scfm (Pe = 12bar/180 psig, Δp 0.5 bar/7,5 psig) | Dimensions (mm) | | | | | | Weight Gram | Maximum Inlet Pressure | Temperature Range | Material | Order Code |
|-----------------------------------|------------------|----------------------------------|--|-----------------|----|----|----|----|----|----------------|------------------------------|----------------------------------|---|------------|
| | | | | A | B | C | D | E | F | | | | | |
| BSP | | | | | | | | | | | | | | |
| 1/4" TOOLREG female-female | | | | | | | | | | | | | | |
| 1/4 | 2 bar | +/- 0,3 bar / 4,35 psig | 500 / 17 | - | 59 | - | 19 | 16 | 19 | 33 | 25 bar 365psig | 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232A0220 |
| 1/4 | 3 bar | +/- 0,3 bar / 4,35 psig | 550 / 19 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232A0230 |
| 1/4 | 4 bar | +/- 10% | 600 / 21 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232A0240 |
| 1/4 | 5 bar | +/- 10% | 650 / 23 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232A0250 |
| 1/4 | 6 bar | +/- 10% | 700 / 25 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232A0260 |
| 1/4 | 7 bar | +/- 10% | 700 / 25 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232A0270 |
| 1/4 | 8 bar | +/- 10% | 800 / 28 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232A0280 |
| NPT | | | | | | | | | | | | | | |
| 1/4" TOOLREG female-female | | | | | | | | | | | | | | |
| 1/4" | 2 bar / 30 psig | +/- 0,3 bar / 4,35 psig | 500 / 17 | - | 59 | - | 19 | 16 | 19 | 33 | 25 bar 365psig | 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232AS1230 |
| 1/4" | 3 bar / 45 psig | +/- 0,3 bar / 4,35 psig | 550 / 19 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232AS1245 |
| 1/4" | 4 bar / 60 psig | +/- 10% | 600 / 21 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232AS1260 |
| 1/4" | 5 bar / 75 psig | +/- 10% | 650 / 23 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232AS1275 |
| 1/4" | 6 bar / 90 psig | +/- 10% | 700 / 25 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232AS1290 |
| 1/4" | 7 bar / 105 psig | +/- 10% | 700 / 25 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232AS12105 |
| 1/4" | 8 bar / 120 psig | +/- 10% | 800 / 28 | - | 59 | - | 19 | 16 | 19 | 33 | | | | 232AS12120 |
| BSP | | | | | | | | | | | | | | |
| 1/4" TOOLREG female-male | | | | | | | | | | | | | | |
| 1/4 | 2 bar | +/- 0,3 bar / 4,35 psig | 500 / 17 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | 25 bar 365psig | 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232F0220 |
| 1/4 | 3 bar | +/- 0,3 bar / 4,35 psig | 550 / 19 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | | | | 232F0230 |
| 1/4 | 4 bar | +/- 10% | 600 / 21 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | | | | 232F0240 |
| 1/4 | 5 bar | +/- 10% | 650 / 23 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | | | | 232F0250 |
| 1/4 | 6 bar | +/- 10% | 700 / 25 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | | | | 232F0260 |
| 1/4 | 7 bar | +/- 10% | 700 / 25 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | | | | 232F0270 |
| 1/4 | 8 bar | +/- 10% | 800 / 28 | 69 | 59 | 10 | 19 | 16 | 19 | 40 | | | | 232F0280 |
| NPT | | | | | | | | | | | | | | |
| 1/4" TOOLREG female-male | | | | | | | | | | | | | | |
| 1/4" | 2 bar / 30 psig | +/- 0,3 bar / 4,35 psig | 500 / 17 | 69 | 59 | - | 19 | 16 | 19 | 40 | 25 bar 365psig | 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232FS1230 |
| 1/4" | 3 bar / 45 psig | +/- 0,3 bar / 4,35 psig | 550 / 19 | 69 | 59 | - | 19 | 16 | 19 | 40 | | | | 232FS1245 |
| 1/4" | 4 bar / 60 psig | +/- 10% | 600 / 21 | 69 | 59 | - | 19 | 16 | 19 | 40 | | | | 232FS1260 |
| 1/4" | 5 bar / 75 psig | +/- 10% | 650 / 23 | 69 | 59 | - | 19 | 16 | 19 | 40 | | | | 232FS1275 |
| 1/4" | 6 bar / 90 psig | +/- 10% | 700 / 25 | 69 | 59 | - | 19 | 16 | 19 | 40 | | | | 232FS1290 |
| 1/4" | 7 bar / 105 psig | +/- 10% | 700 / 25 | 69 | 59 | - | 19 | 16 | 19 | 40 | | | | 232FS12105 |
| 1/4" | 8 bar / 120 psig | +/- 10% | 800 / 28 | 69 | 59 | - | 19 | 16 | 19 | 40 | | | | 232FS12120 |
| BSP | | | | | | | | | | | | | | |
| 3/8" TOOLREG female-female | | | | | | | | | | | | | | |
| 3/8 | 2 bar | +/- 0,3 bar / 4,35 psig | 1400 / 49 | - | 63 | - | 25 | 22 | 25 | 60 | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232A0320 |
| 3/8 | 3 bar | +/- 0,3 bar / 4,35 psig | 1400 / 49 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232A0330 |
| 3/8 | 4 bar | +/- 10% | 1800 / 63 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232A0340 |
| 3/8 | 5 bar | +/- 10% | 1800 / 63 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232A0350 |
| 3/8 | 6 bar | +/- 10% | 2200 / 77 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232A0360 |
| 3/8 | 8 bar | +/- 10% | 2600 / 92 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232A0380 |
| NPT | | | | | | | | | | | | | | |
| 3/8" TOOLREG female-female | | | | | | | | | | | | | | |
| 3/8" | 2 bar / 30 psig | +/- 0,3 bar / 4,35 psig | 1400 / 49 | - | 63 | - | 25 | 22 | 25 | 60 | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232AS1330 |
| 3/8" | 3 bar / 45 psig | +/- 0,3 bar / 4,35 psig | 1400 / 49 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232AS1345 |
| 3/8" | 4 bar / 60 psig | +/- 10% | 1800 / 63 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232AS1360 |
| 3/8" | 5 bar / 75 psig | +/- 10% | 1800 / 63 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232AS1375 |
| 3/8" | 6 bar / 90 psig | +/- 10% | 2200 / 77 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232AS1390 |
| 3/8" | 8 bar / 120 psig | +/- 10% | 2600 / 92 | - | 63 | - | 25 | 22 | 25 | 60 | | | | 232AS13130 |

On request: Version in stainless steel and other pre-set pressures

*Tolerances Test medium: Air, Pe = 6 bar/90 psig (at Pa <= 4 bar/60 psig), 10 NI/Min / 0,35 scfm
Test medium: Air, Pe = 10 bar/150 psig (at Pa >= 4 bar/60 psig), 10 NI/Min / 0,35 scfm



Technical Data and Ordering Information



ToolReg® – In-Line Pre Set Regulator

Installation: The regulator ensures that a constant pressure is always maintained, despite the normal pressure fluctuations in a system. The regulator is intended for use with compressed air or neutral gases. The ToolReg® must be mounted directly on the pneumatic tool in order to ensure correct pressure, so that possible pressure drops in hoses, tubes etc. do not influence the pressure on the tool itself. Furthermore, the residual pressure in the tools is relieved when it is removed from the compressed air supply line, preventing unintentional actuation of the tool with disastrous consequences.

| Thread Connection | Outlet Pressure | Tolerances* (at 10 ltrs. Min) | Flow Ltrs./min - scfm (Pe = 12bar/180 psig, Δp 0.5 bar/7.5 psig) | Dimensions (mm) | | | | | | Weight Gram | Maximum Inlet Pressure | Temperature Range | Material | Order Code |
|---|------------------|----------------------------------|--|-----------------|-------|---|----|----|----|----------------|------------------------------|----------------------------------|---|------------|
| | | | | A | B | C | D | E | F | | | | | |
| BSP | | | | | | | | | | | | | | |
| 1/2" TOOLREG female-female | | | | | | | | | | | | | | |
| 1/2" | 2 bar | +/- 0,3 bar / 4.35 psig | 1400 / 49 | - | 68 | - | 30 | 27 | 30 | 90 | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232A0420 |
| 1/2" | 3 bar | +/- 0,3 bar / 4.35 psig | 1400 / 49 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232A0430 |
| 1/2" | 4 bar | +/- 10% | 1800 / 63 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232A0440 |
| 1/2" | 5 bar | +/- 10% | 1800 / 63 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232A0450 |
| 1/2" | 6 bar | +/- 10% | 2200 / 77 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232A0460 |
| 1/2" | 8 bar | +/- 10% | 2600 / 92 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232A0480 |
| NPT | | | | | | | | | | | | | | |
| 1/2" TOOLREG female-female | | | | | | | | | | | | | | |
| 1/2" | 2 bar / 30 psig | +/- 0,3 bar / 4.35 psig | 1400 / 49 | - | 68 | - | 30 | 27 | 30 | 90 | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232AS1430 |
| 1/2" | 3 bar / 45 psig | +/- 0,3 bar / 4.35 psig | 1400 / 49 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232AS1445 |
| 1/2" | 4 bar / 60 psig | +/- 10% | 1800 / 63 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232AS1460 |
| 1/2" | 5 bar / 75 psig | +/- 10% | 1800 / 63 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232AS1475 |
| 1/2" | 6 bar / 90 psig | +/- 10% | 2200 / 77 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232AS1490 |
| 1/2" | 8 bar / 120 psig | +/- 10% | 2600 / 92 | - | 68 | - | 30 | 27 | 30 | 90 | | | | 232AS14140 |
| BSP | | | | | | | | | | | | | | |
| 3/4" TOOLREG female-female | | | | | | | | | | | | | | |
| 3/4" | 2 bar | +/- 0,3 bar / 4.35 psig | | - | 101.5 | - | 40 | 34 | 40 | 280 | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232A0520 |
| 3/4" | 4 bar | +/- 10% | | - | 101.5 | - | 40 | 34 | 40 | 280 | | | | 232A0540 |
| 3/4" | 6 bar | +/- 10% | | - | 101.5 | - | 40 | 34 | 40 | 280 | | | | 232A0560 |
| 3/4" | 8 bar | +/- 10% | | - | 101.5 | - | 40 | 34 | 40 | 280 | | | | 232A0580 |
| NPT | | | | | | | | | | | | | | |
| 3/4" TOOLREG female-female | | | | | | | | | | | | | | |
| 3/4" | 2 bar / 30 psig | +/- 0,3 bar / 4.35 psig | | - | 101.5 | - | 40 | 34 | 40 | 280 | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232AS1530 |
| 3/4" | 4 bar / 60 psig | +/- 10% | | - | 101.5 | - | 40 | 34 | 40 | 280 | | | | 232AS1560 |
| 3/4" | 6 bar / 90 psig | +/- 10% | | - | 101.5 | - | 40 | 34 | 40 | 280 | | | | 232AS1590 |
| 3/4" | 8 bar / 120 psig | +/- 10% | | - | 101.5 | - | 40 | 34 | 40 | 280 | | | | 232AS15120 |
| BSP | | | | | | | | | | | | | | |
| 1" TOOLREG female-female AVAILABLE ON REQUEST ONLY | | | | | | | | | | | | | | |
| 1" | 2 bar | +/- 0,3 bar / 4.35 psig | | | | | | | | | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232A0620 |
| 1" | 4 bar | +/- 10% | | | | | | | | | | | | 232A0640 |
| 1" | 6 bar | +/- 10% | | | | | | | | | | | | 232A0660 |
| 1" | 8 bar | +/- 10% | | | | | | | | | | | | 232A0680 |
| NPT | | | | | | | | | | | | | | |
| 1" TOOLREG female-female AVAILABLE ON REQUEST ONLY | | | | | | | | | | | | | | |
| 1" | 2 bar / 30 psig | +/- 0,3 bar / 4.35 psig | | | | | | | | | 25 bar 365psig | - 0 °C to 80°C -32°F to 176°F | Housing: Aluminium other parts: Stainless Steel, Nitrile Rubber, Brass, PPH | 232AS1630 |
| 1" | 4 bar / 60 psig | +/- 10% | | | | | | | | | | | | 232AS1660 |
| 1" | 6 bar / 90 psig | +/- 10% | | | | | | | | | | | | 232AS1690 |
| 1" | 8 bar / 120 psig | +/- 10% | | | | | | | | | | | | 232AS16120 |

On request: Version in stainless steel and other pre-set pressures

*Tolerances Test medium: Air, Pe = 6 bar/90 psig (at Pa <= 4 bar/60 psig), 10 NI/Min / 0,35 scfm
Test medium: Air, Pe = 10 bar/150 psig (at Pa >= 4 bar/60 psig), 10 NI/Min / 0,35 scfm

