

BEST FITTINGS 7000 PRESSURE REGULATOR

GENERAL DESCRIPTION:

The BEST Fittings 7000 Pressure Regulator is a piston type, hand load regulator with an outlet pressure range of 50-5000 PSI 3.5-340 BAR. It uses an unbalanced poppet design for ruggedness and simplicity. A 30 micron filter in the poppet cartridge helps prevent damage by contaminants.



SPECIFICATIONS:

Max inlet pressure: 6000 PSI / 400 BAR

Outlet pressure: 50 to 5000 PSI / 3.5 - 340 BAR

Body ports 1/4" NPT - inlet and outlet opposite each other plus inlet and outlet gauge ports at 60 degree spacing. Flow coefficient (Cv) .06 (equals .07" orifice)

Materials: Anodized aluminium body, brass and stainless interiors. Viton & KEL-F seals.

Outlet pressure variation: 70/1000 for - 5000 & 6000 with inlet pressure 22/1000 for -1500 (outlet rise; inlet drop in PSI) 6/1000 for - 400

INSTALLATION:

Use a suitable pipe thread sealant such as Teflon tape on inlet and outlet threads. Avoid over tightening the pipe thread. Normal torque applied with a 6 or 8 inch long spanner is enough. Use ample Teflon tape - 3 or 4 turns, not 1 or 2 turns. The inlet is on the left when facing the adjusting knob with the two gauge ports upward.

CAUTION:

The regulator is NOT shipped oxygen clean and should NOT be used for oxygen service as provided. Consult BEST Fittings for the details on oxygen service.

As with any regulator or valve, particulates or moisture can plug or freeze the internal filter or valve seat. This can occur when the air is not clean and dry, so please only use suitable clean dry air sources such as diving cylinders filled with 'Divers Quality Breathing Air.'

As with any regulator, if it is to remain pressurised for extended periods a pressure relief valve set slightly above the maximum desired control pressure should be installed on the outlet side.

If you have any technical queries, or require further fitting information or operating guidance, please feel free to contact us through any of the means below.

BEST FITTINGS 7000 PRESSURE REGULATOR KIT FOR AIRGUN USE

OPERATING INSTRUCTIONS FOR AIRGUN USE:

1. Install the BEST Fittings regulator assembly into the DIN cylinder outlet by means of the DIN hand wheel. It is suitable for 200, 232 and 300 BAR DIN cylinders.
2. Connect one end of your filling hose to the BEST Fittings regulator outlet by means of a suitable adaptor (supplied).
3. Connect the other end of your filling hose via an appropriate filling connector (not supplied) to your gun.
4. If there is a bleed valve on the main charging cylinder, ensure that this is closed.
5. The BEST Fittings regulator output pressure is set to approx 100 BAR when it leaves our workshops, and this will show on the right hand gauge when pressurised. If you have a requirement to lower this prior to connection, then please rotate the pressure control knob anti clockwise several full turns.
6. Now you can open the main cylinder control valve, and the left hand gauge will register the main cylinder pressure.
7. You can now adjust the output pressure up or down by rotating the adjusting knob to suit your requirements. Clockwise will increase the output pressure, anti clockwise will reduce it. When reducing the pressure, there will be a slight escape of air vented from the body of the BEST Fittings regulator, this is quite normal and is no cause for concern.
8. If you are using a non internally regulated gun for continuous bench rest shooting, we recommend that you set the BEST Fittings regulator output pressure to the lower end of your particular guns power curve pressure setting (typically around 100 – 120 BAR). This will then give you consistent shooting without any air wastage. For guns with built in regulators, simply set the BEST Fittings regulator output pressure to a point above the guns internal regulator pressure.
9. When you no longer require the BEST Fittings regulator to remain attached to the gun, close the main cylinder control valve. If there is a bleed valve on the cylinder, use this to vent the air stored within the regulator assembly and fill line. If no bleed valve is present, you can simply unwind the regulator adjuster knob until the air self vents from the system. We also offer an inline bleed block, BEST Fittings part no: 17U3-AC02, which allows for venting the regulator without having to dial back the adjuster knob. This is recommended for standard SCBA cylinder valves with no integral bleed valve, and allows the BEST Fittings regulator to be removed without altering the output settings.
10. For safety, we recommend that the regulator assembly is detached from the cylinder when not in use.



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