injections, or the like to be passed through the wellhead and into the well bore. In such a system, a back pressure valve is often disposed in a central bore of the hanger. The back pressure valve plugs the central bore of the hanger to block pressures of the well bore from manifesting through the wellhead. During some operations, the back pressure valve is removed to provide access to regions below the hanger, such as the well bore. Unfortunately, many back pressure valves are threaded (i.e., rotated) into the hanger, which can cause complications.

SUMMARY

[0003A] According to a first aspect, there is provided a system, including: a back pressure valve configured to mount in a mineral extraction system, wherein the back pressure valve includes: a body comprising a venting port coaxial with a longitudinal axis of the body; a plunger configured to be in sealing engagement with the body to seal the venting port; and a lock ring disposed about the body, wherein the lock ring is configured to automatically expand radially upon removal of a tool.

[0003B] According to a second aspect, there is provided a method, including: coupling a retrievable tool to a back pressure valve; landing the back pressure valve within a mineral extraction system component via linear translation of the retrievable tool and the back pressure valve; and automatically radially expanding a lock ring of the back pressure valve upon removal of the retrievable tool from the back pressure valve.

[0003C] According to a third aspect, there is provided a system, including: a mineral extraction system component; a back pressure valve configured to be disposed within the mineral extraction system component, including: a body comprising a venting port; a plunger configured to be in sealing engagement with the body to seal the venting port; and a lock ring disposed about the body; and a retrievable tool configured to couple to the back pressure valve and linearly translate the back pressure valve into a landed position within the mineral

extraction system component, wherein the lock ring is configured to automatically expand radially upon removal of the retrievable tool from the back pressure valve.

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] Various features, aspects, and advantages of the present disclosure will become better understood when the following detailed description is read with reference to the accompanying figure, wherein:

[0005] FIG. 1 is a block diagram that illustrates a mineral extraction system in accordance with an embodiment of the present disclosure;

[0006] FIG. 2 is a cross-sectional side view of a back pressure valve in a landed position with a lock ring of the back pressure valve in a compressed state;

[0007] FIG. 3 is a cross-sectional side view of a back pressure valve in a landed position with a lock ring of the back pressure valve in a compressed state; and

[0008] FIG. 4 is a cross-sectional side view of a back pressure valve in a landed position with a lock ring of the back pressure valve in an expanded state.

DETAILED DESCRIPTION OF SPECIFIC EMBODIMENTS

[0009] One or more specific embodiments of the present disclosure will be described below. These described embodiments are only exemplary of the present disclosure. Additionally, in an effort to provide a concise description of these exemplary embodiments, all features of an actual implementation may not be described in the specification. It should be appreciated that in the development of any such actual implementation, as in any engineering or design project, numerous implementation-specific decisions must be made to achieve