SUMMARY

[0004] Certain aspects of some embodiments disclosed herein are set forth below. It should be understood that these aspects are presented merely to provide the reader with a brief summary of certain forms the invention might take and that these aspects are not intended to limit the scope of the invention. Indeed, the invention may encompass a variety of aspects that may not be set forth below.

[0005] Some embodiments of the present disclosure generally relate to a wellhead completion system. The system can include a wellhead hanger. The system can also include a running tool with a threaded portion coupling the running tool to the wellhead hanger. In an embodiment, the running tool comprises a first protrusion extending below the threaded portion. The first protrusion extends fixedly toward the wellhead hanger. The threaded portion may include a thread profile that is between two threads-per-inch and four threads-per-inch.

[0006] There is also disclosed a wellhead completion method. The method can include providing a running tool having a stopping protrusion extending below a threaded portion of the running tool. The method can also include providing a wellhead hanger having a receiving protrusion. The method can further include rotating the running tool in a first direction with respect to the wellhead hanger until the stopping protrusion of the running tool engages with the receiving protrusion of the wellhead hanger.

[0007] Further embodiments of the present disclosure generally relate to a well completion system. The well completion system can include a mandrel-style wellhead hanger and a running tool. The wellhead hanger can include a neck portion configured to guide a running tool to a position about the wellhead hanger. The wellhead hanger can also include a threaded portion configured to threadedly engage the running tool during an operation. The wellhead hanger also includes a rotation-stopping protrusion configured to abut the running tool and prevent over-torque. The well completion system additionally includes a running tool with a threaded portion configured to couple the running tool to the wellhead hanger. The running tool includes a

mating protrusion extending fixedly below the threaded portion of the running tool. The mating protrusion may be on an inner surface of the running tool that engages the rotation-stopping protrusion of the wellhead hanger.. The threaded portions may comprise a thread profile that is between two threads-per-inch and four threads-per-inch.

CLAIMS

1. A system comprising:

a wellhead hanger; and

a running tool with a threaded portion coupling the running tool to the wellhead hanger, wherein the running tool comprises a first protrusion extending below the threaded portion, and the first protrusion extends fixedly toward the wellhead hanger.

2. The system of claim 1, wherein the wellhead hanger comprises a second protrusion configured to interact with the first protrusion.

3. The system of claim 2, wherein the second protrusion is positioned on a neck portion of the wellhead hanger.

4. The system of claim 2, wherein the second protrusion is positioned below the threads on the wellhead hanger.

5. The system of claim 2, wherein the second protrusion extends 180 degrees along a circumference of the wellhead hanger.

6. The system of claim 1, wherein the running tool comprises a cylindrical shape, and the first protrusion is positioned on an inner surface of the running tool.

7. The system of claim 1, wherein the first protrusion extends 180 degrees along a circumference of the running tool.

8. The system of claim 1, wherein the wellhead hanger further comprises a shoulder, wherein the first protrusion abuts the shoulder of the hanger and resists over-torqueing of the running tool with respect to the hanger.

9. The system of claim 1, wherein the threaded portion comprises a thread profile that is between two threads-per-inch and four threads-per-inch.

10. A well completion system, comprising:

a mandrel-style wellhead hanger comprising:

a neck portion configured to guide a running tool to a position about the wellhead hanger;

a threaded portion configured to threadedly engage the running tool during an operation; and

a rotation-stopping protrusion configured to abut a mating protrusion of the running tool and prevent over-torqueing of the running tool with respect to the wellhead hanger; and

a running tool with a threaded portion configured to couple the running tool to the wellhead hanger, wherein the mating protrusion of the running tool extends fixedly below the threaded portion of the running tool.

11. The well completion system of claim 10, wherein the rotation-stopping protrusion is positioned at the upper end of the neck portion.

12. The well completion system of claim 10, wherein the rotation-stopping protrusion is positioned on a shoulder portion of the wellhead hanger below the threaded portion.

13. The well completion system of claim 10, wherein the threaded portions comprise a thread profile that is between two threads-per-inch and four threads-per-inch.

14. The well completion system of claim 10, wherein the rotation-stopping protrusion extends 180 degrees along a circumference of the wellhead hanger.