

How to Repair a KMT Style Bleed-Down Valve Using Kit #12593

These instructions will demonstrate how to replace components of a KMT Style Bleed-Down Valve with kit #12593



INTRODUCTION

Hypertherm is in no way affiliated with the above mentioned manufacturer

IUULJ.

- 5/8" wrench (1)
- 1" wrench (1)
- 1-1/8" wrench (1)

PARTS:

- Repair Kit #12593 (1)
- Seat #11099 (included in kit) (1)
- Seal Assembly #11100 (included in kit) (1)
- O-ring #11240 (included in kit) (1)
- Valve Stem #11102 (included in kit) (1)
- Brass Back-up Ring #11104 (included in kit) (1)
- Actuator #13243 (1)
- High-Pressure Gland Fitting #13802 (1)
- Blue Goop #11111 (1)
- Isopropyl Alcohol (1)

Step 1 — How to Repair a KMT Style Bleed-Down Valve Using Kit #12593



- Always make sure all high-pressure water has been removed from the valve by the following machine manufacturers' safety instructions. Failure to do so can cause severe injury or death.
- Turn OFF all water pressure to the on/off valve.

Step 2



(i) The valve components can be replaced with the <u>valve body</u> mounted to the pump.

- Loosen the high-pressure tubing from the high-pressure gland fitting using a 5/8" and 1" wrench.
- Unthread the high-pressue tubing from the high-pressure gland fitting.



- Loosen the high-pressure gland fitting using a 1-1/8" wrench.
- Unthread the high-pressure gland fitting from the valve body.
- Disconnect the air line from the <u>actuator</u>.



- Unthread the actuator from the valve body.
- Remove all the valve components from the valve body with the included dowel.
- Thoroughly clean theinterior of the valve body with isopropyl alcohol or a similar cleaning agent before replacing the components.



- Visually inspect the top and bottom of the valve bore for cracks/blemishes. If excessive wear or cracks are visible, replace the <u>valve body</u>.
- Slide the <u>O-ring</u> on to the point of the valve stem.
- Slide the <u>stainless steel back-up ring</u> on to the valve stem point with the chamfer side towards the O-ring.



- Slide the <u>brass back-up ring</u> on to the valve stem point with the chamfer side away from the stainless steel back-up ring.
- Put the <u>hoop</u> on the <u>high-pressure seal</u> with the sharp edge of the hoop towards the seal.
- Slide the hoop and the high-pressure valve seal onto the valve stem with the hoop towards the brass back-up ring.



- Apply high-pressure lubricant to the outside diameter of the high-pressure valve seal.
- Put the point of the valve stem into the valve body.
- Push the valve stem with the dowel until it bottoms out.



- Clean the actuator threads of all Blue Goop with isopropyl alcohol or a similar cleaning agent.
- Apply <u>Blue Goop</u> to the actuator threads.
- Thread (hand tighten) the actuator into the top of the valve body until it bottoms out.



- Reconnect the air tube to the actuator.
- Clean the high-pressure gland fitting of all Blue Goop.
- Reapply Blue Goop to the threads of the high-pressure gland fitting.



- Put the seat into the top of the high-pressure gland fitting with the flat side towards the gland fitting.
- Apply Blue Goop to the top of the seat.
- Thread the high-pressure gland fitting into the bottom of the valve body.



- Tighten the high-pressure gland fitting using a 1-1/8" wrench.
- Clean the high-pressure tubing threads and cone of all Blue Goop with isopropyl alcohol or a similar cleaning agent.
- Reapply Blue Goop to the high-pressure tubing threads and cone.



- Thread in the high-pressure tubing to the bottom of the high-pressure gland fitting.
- Apply water pressure to the valve assembly to verify there are no leaks.
- Re-install the cutting head and continue the cutting process.



• Re-install the cutting head and continue the cutting process.