

# EAPC™ Poppet Valve

## sootblower control system

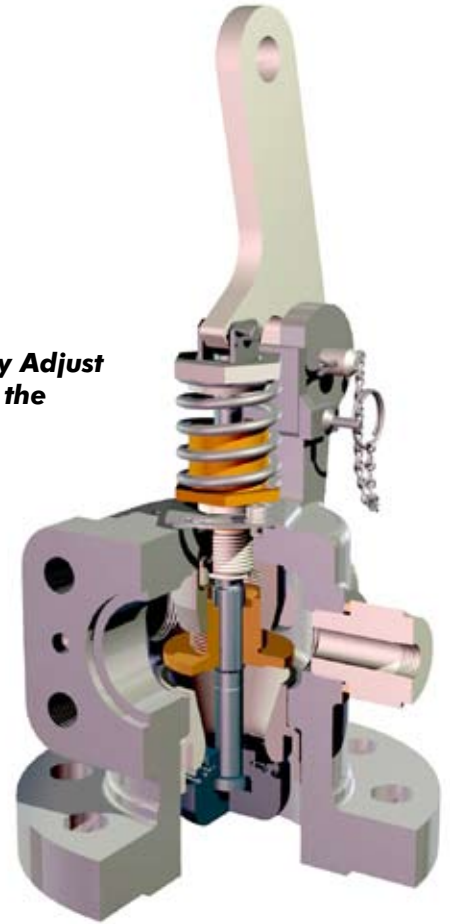
Long retractable sootblowers periodically require adjustment of head pressure settings to achieve desired steam pressure levels for cleaning. Historically, in order to adjust head pressure settings, standard poppet valves had to be closed /isolated and the sootblower shut off – oftentimes across the entire bank. The externally adjustable pressure control (EAPC™) poppet-valve was invented to solve this problem, and has undergone significant design improvements since its first introduction to market in the 1990's.

The latest EAPC™ poppet valve design can be adjusted externally, while the sootblower is running, without binding or galling. Laboratory testing has enabled Diamond Power's team to solve critical friction contact points and surfaces, optimize trigger to steam contact patterns. Field tests in both utility and recovery boiler environments confirmed trouble-free operation in long-term use under severe operating conditions.

### Benefits

- Simple and safe valve adjustment procedure:
  - Install pressure gauge
  - Remove EAPC locking tab and reinstall to lock packing gland
  - Start blower
  - Turn adjusting nut with minimal torque effort
  - Reinstall EAPC locking tab
- Longer service life – Free from internal binding / galling
- Less time spent resetting valves
- Maximize sootblower availability, cleaning performance and flexibility

**The EAPC™ Poppet Valve: Safely Adjust Steam Pressure Externally while the Sootblower is Running**



### Features

- Welded flexible valve seat and disc to prevent distortion from thermal stress
- Long term reliability with freedom from leakage
- Pressure control disc made from materials proven to withstand steam service
- Adjustment flexibility among styles
- Steam yoke ensures positive valve closure

### Availability

The EAPC™ poppet valve is available as optional equipment on all retractable sootblowers. In addition, the EAPC™ poppet valve can be retrofitted to any existing Diamond Power retractable sootblower as a replacement part or a rebuild of the current valve. The valve is available in two pressure classes:

#### Series 600 Carbon Steel

For Service Conditions to 650psig @ 700° F

#### Series 900 Chrome-Moly

For Service Conditions to 950psig @ 900° F or 1100 psig @ 835° F

Diamond Power International, Inc. is a globally acknowledged market leader in all aspects of boiler cleaning and ash handling. For more than 100 years, DPIL has consistently provided innovative technologies for power generation, pulp & paper and industrial boiler designs, proven to solve the most difficult plant challenges while delivering promised benefits. Diamond Power is headquartered in Lancaster, Ohio, U.S. with more than 80 field sales, service support, distribution and manufacturing locations worldwide.

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