



ADCV

Decoking Control Valve

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Experience In Motion

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Agenda

- Purpose
- Features and Benefits
- Flow and Pressure

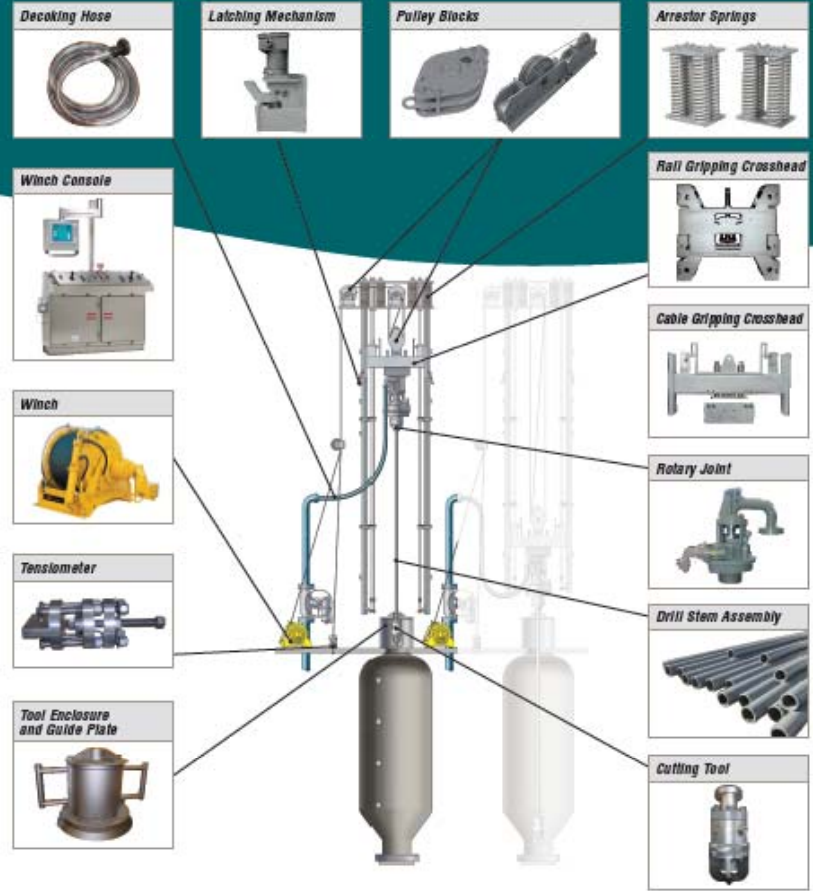


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Innovation from the Global Leader in Hydraulic Decoking

Simplified Two-Drum Hydraulic Decoking System



FPD-1125d (E) © Flowserve Corporation (2010)

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The new ADCV Valve

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Purpose

Why a new Decoking Valve ?

- Game changing compact solution
- Reduce maintenance costs
- Cavitationless design
- Extend life time and increase MTBR
- Use latest world class severe service philosophy from Multi-Z
- Upgrading existing decoking systems
- Same dimensions than current valve type, fully interchangeable for easy change.



Features & Benefits

- Advanced design – uses Multi-Z sizing philosophy
- Hardened plug and seat surfaces
- All seats can be replaced
- Easy maintenance due to modular concept
- Removeable stack of multi-hole discs for bypass and operating plug for easy replacement
- Pilot plug operated design
- Compact valve design – less weight , less space
- Interchangeable with current valve dimensions
- Handles solids in the process up to 3mm in size



Using Multi-Z Technology

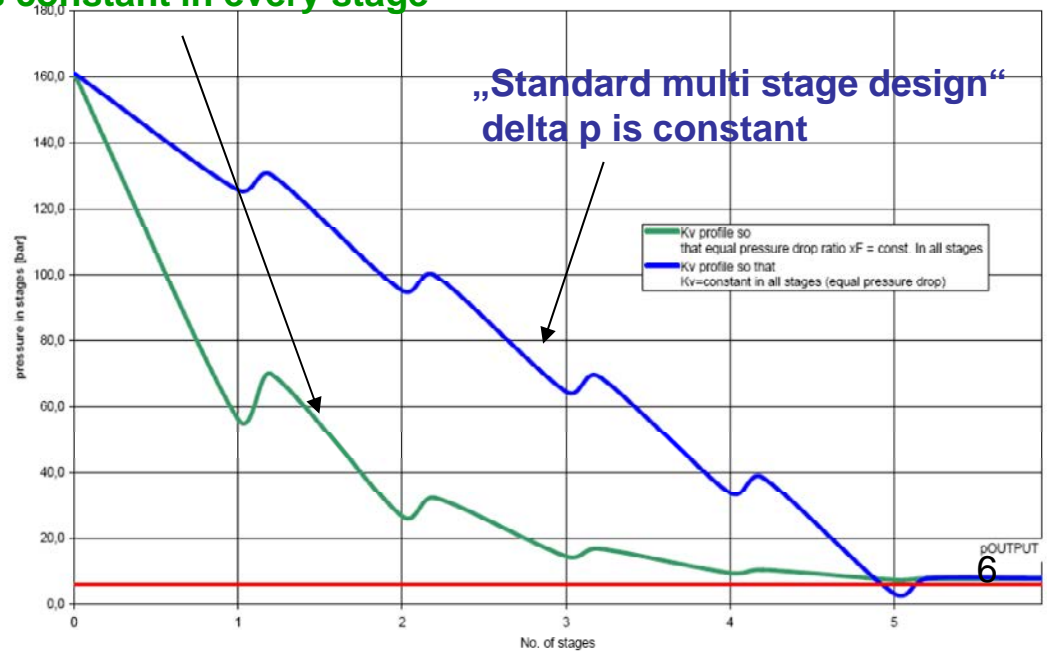


- Large solids capability
- Sizing for same xF values per stage

New Multi-Z design

xF is constant in every stage

Pressure profile through 5 stages valve in different styles



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ADCV Trim Technology



Main Plug



Bypass stack

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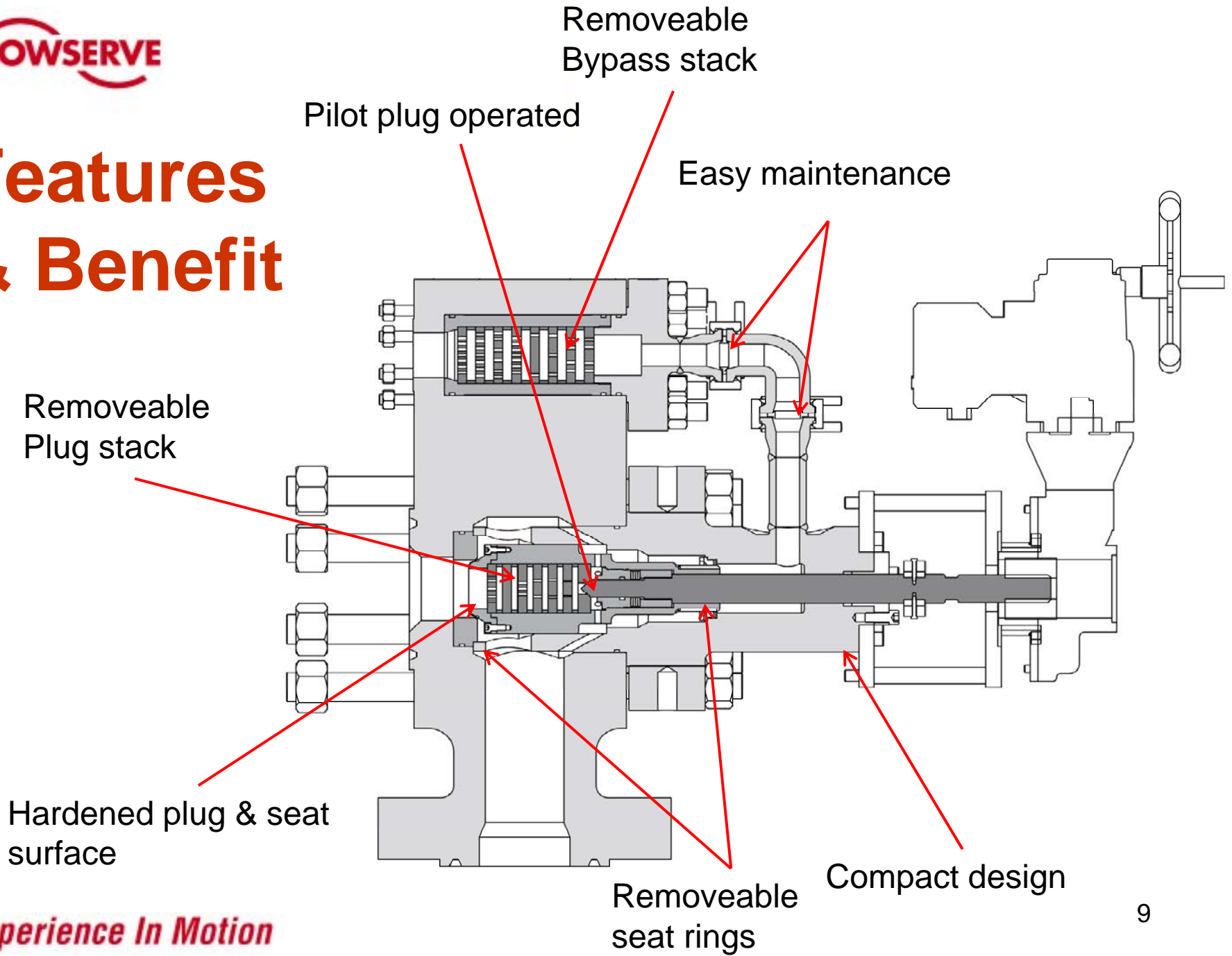


Specification

Attribute	Value
Size	6" x 6" x 3" 8" x 8" x 4"
Pressure Class	CL 1500 CL 2500
Body Material	CF8M WCB
Actuator Type	Electric Pneumatic Hydraulic
Valve Type	3 –way Bypass / Pre-fill / Decoking



Features & Benefit



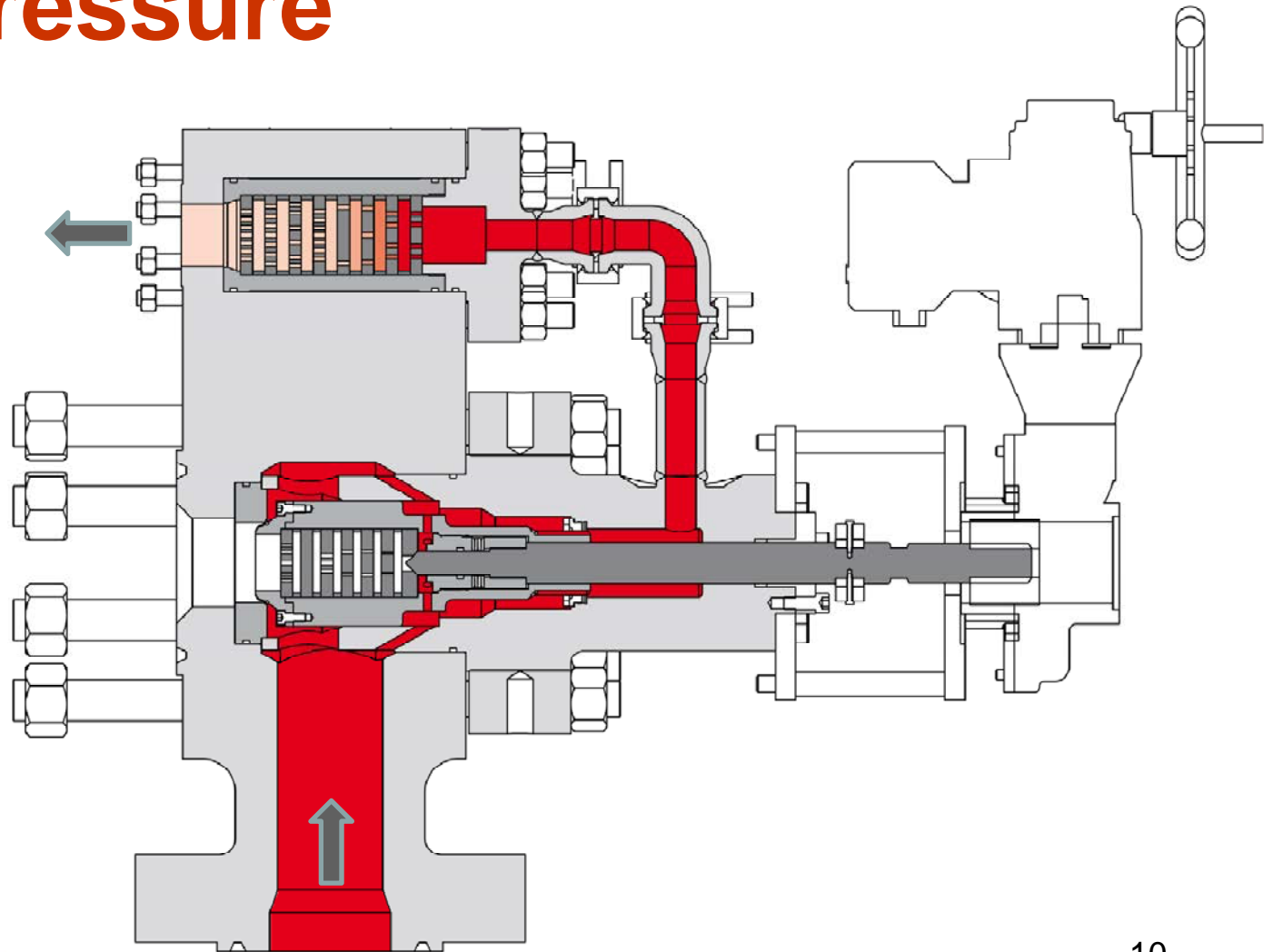
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Flow & Pressure

Bypass

First sequence

- Provides minimum flow bypass for the jet pump
- Always open to prevent deadheading pump
- Always be in this mode to **start** the jet pump

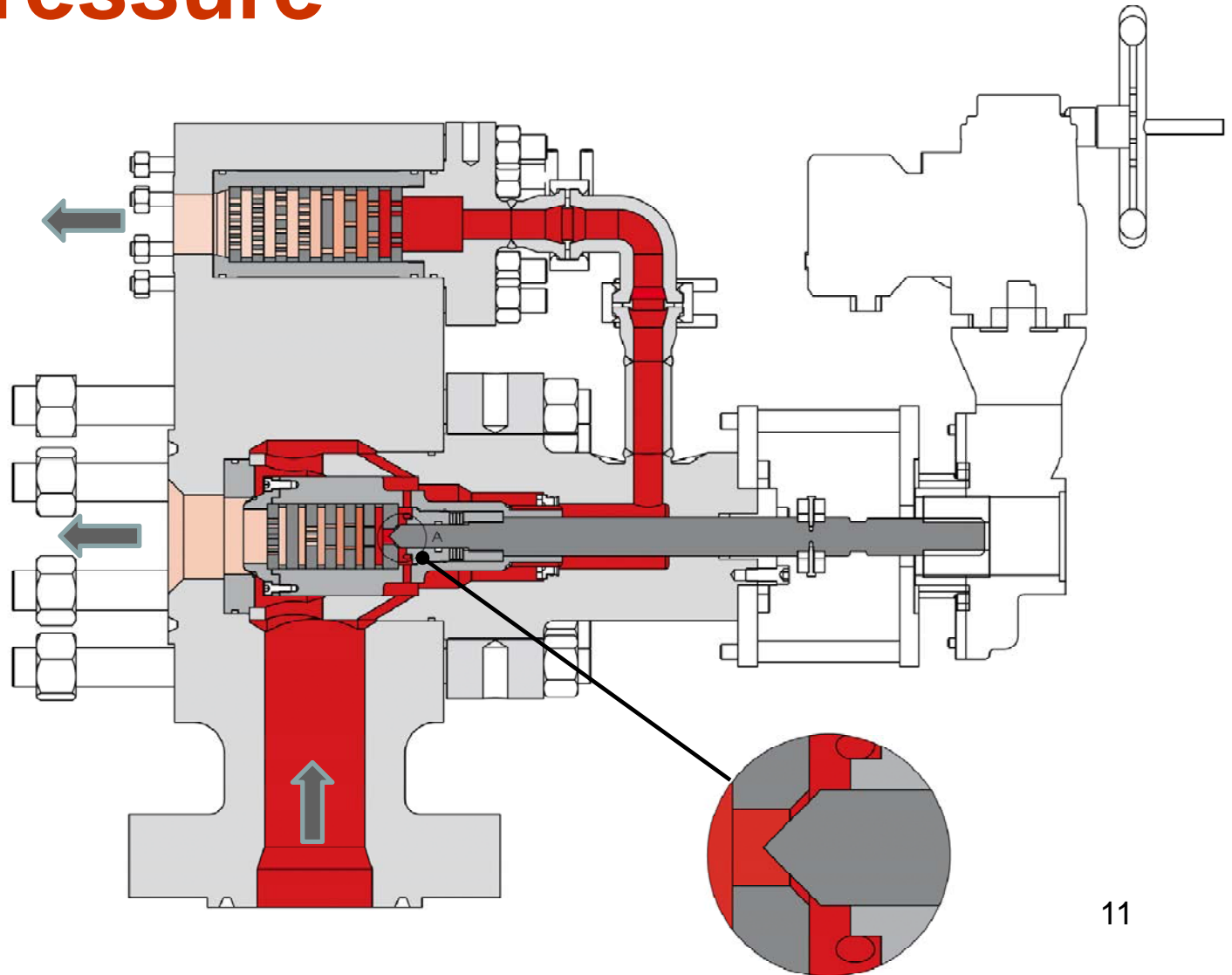


Flow & Pressure

Pre-fill

Second sequence

- Provides low pressure pre-fill sequence until system filled
- Allows the system to start without water hammer effects

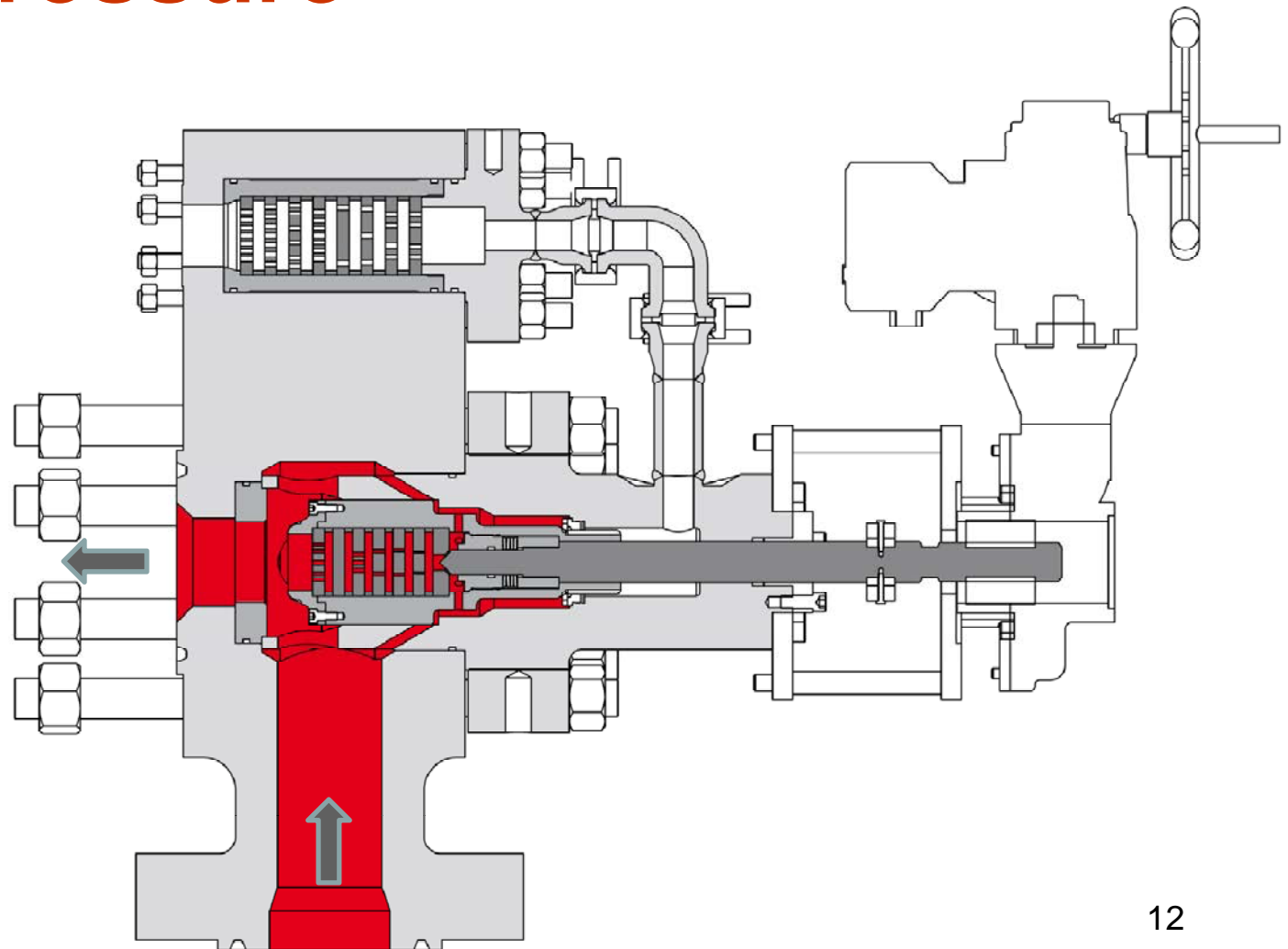


Flow & Pressure

Decoking

Third sequence

- Initiated any time after the decoking line is completely filled with water and all air expelled
- Allows full pressure to the cutting tool with minimal pressure drop
- To stop full flow, go back into the by-pass mode



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Actuator Options

- Flowserve Actuator Options
 - Limitorque Electric Actuator
 - VL Cylinder Actuator
- Other suppliers
 - Electric Actuators
 - Hydraulic Actuators
- Positioners
 - Logix Digital Positioner Series



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Presentation

Flow Control

B&PD General Industries Sector

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