



Features:

- 'Dirt buster' technology with improved, 4x stronger actuator and self cleaning valve
- Patent-pending 'Silt Buster' cleaning technology
- Advanced control algorithms and diagnostic capability
- Optimal control configuration for redundancy
- Same mounting base footprint as CPC*
- Enhanced functionality

Benefits:

- Powers through 40 µm sized dirt, reducing or eliminating filter / filter servicing
- Clears silt build-up without disrupting operation integrity
- Industry-leading stability and bumpless, precision throttle-valve control
- Configuration flexibility meets your system needs
- Easily upgrade existing CPC* or Voith E360 I/H

CPC-II
Upgrade Program

**(Current-to-Pressure Converter,
Generation 2)**

CPC-II Upgrade Program (Current-to-Pressure Converter, Generation 2)

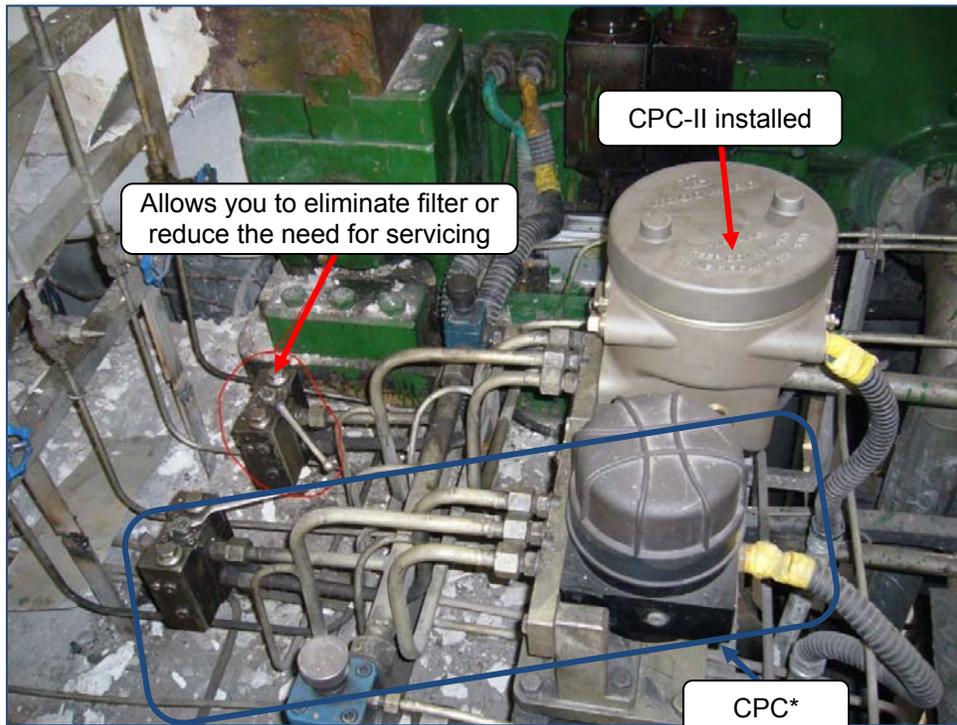
Maximize uptime with Woodward's 'dirt buster' technology

Upgrade your Woodward CPC* or Voith E360 I/H throttle valve controller with Woodward's CPC-II electro hydraulic current-to-pressure-regulating converter. The CPC-II addresses the steam turbine market's #1 reliability problem: oil contamination.

CPC-II:

- powers through 40 µm sized dirt to reduce—and often completely eliminate— turbine control filter servicing
- clears silt build-up without disrupting operation integrity
- utilizes industry-leading stability and bumpless precision throttle valve control
- offers an easy upgrade of existing CPC or Voith converters

The robust strength of the CPC-II is combined with Woodward's industry-leading control point algorithm, advanced diagnostics and PC-based service tools. This powerhouse solution enables control stability during normal turbine operation and bumpless control during plant upsets. You maximize uptime and productivity because you've minimized process over- or undershoot conditions.



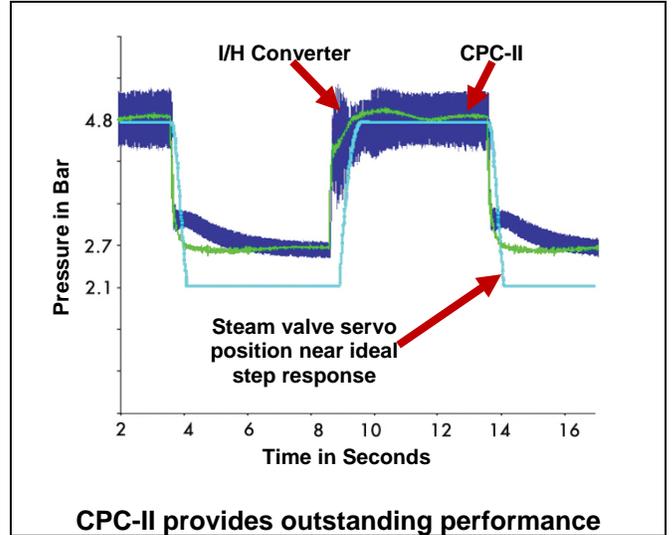
Easily upgrade your existing CPC * or Voith E360 I/H to CPC-II

** CPC is no longer available after July, 2012. Recommended replacement is CPC-II.*

CPC-II Performance

Compared to conventional I/H converter systems, the CPC-II output is quiet and stable. Conventional I/H converters produce excess pressure “noise”, causing increased wear in the servo system, while over-damped dynamics cause slow response.

The CPC-II provides stable pressure, reducing system wear and providing rapid, accurate response to demand signals.



CPC-II Capabilities and Advantages

Capability / Function	CPC-II	CPC *	Voith E360 I/H
Dirty oil resistant	✓		
Silt build-up resistant	✓		
Valve linearization compensation	✓		
Corrosive contamination resistant	✓		x
Sticky (high-friction) port compensation	✓		
Accepts redundant pressure set point inputs	✓		
Accepts redundant pressure sensor inputs	✓		
Accepts external pressure sensor	✓		
Accepts external cylinder position sensor	✓		
Internal health monitoring	✓		
Manual stroking function	✓		x
Isolated inputs and outputs	✓		
Performance trending tool	✓		
Performance / stability adjustments	✓	x	

As indicated in the chart, left, CPC-II gives you greatly improved functionality. From increased inlet pressure options (to 25 bar), through isolated inputs and outputs and advanced redundancy management, to monitoring and managing performance, CPC-II offers you maximum operating efficiency advantages.

Ease of Upgrade

CPC-II is a direct replacement for the CPC*. Mounting and oil interface manifolds remain in the same locations for ease of upgrade (see CPC-II Product Spec 03352 for exact dimension details).

Woodward offers an adapter kit sold separately for upgrading Voith E360 I/H throttle control units (ADAPTOR KIT PN: 8928-7240).

To begin your upgrade project, contact your local Woodward representative today.

Current Models*	Area Classification	Control Pressure Range	Upgrade to New Models
8901-455 8901-457 8901-459 9907-1102 9907-1106	Class I, Division 2 ATEX Zone 2	(0 to 10) bar	9907-1200
		(0 to 25) bar	9907-1198
9907-046 9907-477 9907-802 9907-803 9907-1100 9907-1103	Class I, Division 1 Class I, Division 2 ATEX Zone 1 & Zone 2	(0 to 10) bar	9907-1199
		(0 to 25) bar	9907-1197

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We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

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