

# SPEED CONTROL & CONTROLS

Industrial Turbines, Engines,  
Pumps and Compressors

**WOODWARD**



## DIGITAL CONTROL OF STEAM TURBINES FOR VARIOUS APPLICATIONS

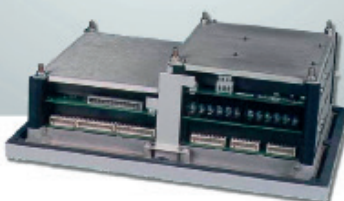
DIGITAL SPEED CONTROLLER AND LOAD DISTRIBUTION 2301E



## PROGRAMMABLE DIGITAL TURBINE CONTROLLER

CONTROL SYSTEM ATLAS SC

- > real-time
- > for all applications
- > numerous I/O



## UNIVERSAL DIGITAL TURBINE CONTROL PLATFORM

MICRONET PLUS

- > turbines / compressors control
- > critical applications
- > modular and expandable
- > certified SIL-3



## THE STANDARD IN STEAM TURBINE CONTROL

505XT - SINGLE ADMISSION

- > steam turbine control
- > automatic start routines



## THE REFERENCE IN TURBINE CONTROL

505E - ADMISSION / EXTRACTION

- > performance optimization
- > uptime optimization



## THE BRAND-NEW CONTROL FOR ENGINES AND TURBINES

FLEX500

- > cost effective and competitive solution
- > high performance



## TRIP BLOCK ASSEMBLY FOR STEAM TURBINE SAFETY

QUICKTRIP

- > ultra-fast
- > reliable
- > 2-out-of-3 voting design



## THE MOST POWERFUL TURBINE ACTUATOR ON THE MARKET

VARI-STROKE

- > self-cleaning technology
- > dirt-tolerant design
- > 50lb chip shear force



## CURRENT TO PRESSURE CONVERTER

CPC-II

- > handles turbine lube oil with high tolerance to dirty oil
- > possibility of redundancy
- > waterproof





### GOVERNORS GOVERNORS UG 5-7-8-10-40

- > lever or dial speed settings



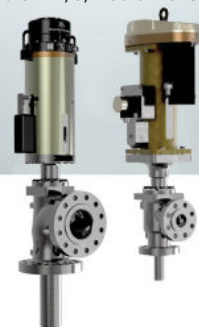
### GOVERNORS WITH BACK-UP PG-EG AND EGB

- > engine and turbine speed control



### VERY WIDELY USED ON GAS TURBINES SONIC VALVE LESV

- > gas inlet valve
- > replaces the obsolete ESV
- > available in 2, 3, 4 ou 6 inches



### INTEGRATED OVERSPEED PROTECTION ProTech TPS

- > programmable logic controller
- > safe shutdown
- > 2-out-of-3 protection



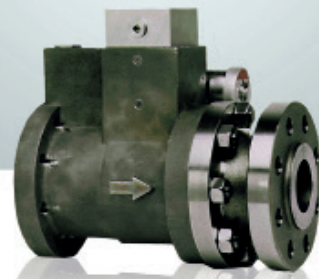
### VALVE / ACTUATOR FOR GAS TURBINES 3103 / TM55 ASSEMBLY

- > acid gas resistance
- > proven technology



### ULTRA FAST SHUT-OFF VALVE FOR TURBINES GSOV25

- > safety valve for gas turbines



### GAS METERING VALVE GAS VALVE GS40/50

- > valve with on-board driver
- > replaces obsolete GS10
- > available in 2, 3 et 6 inches



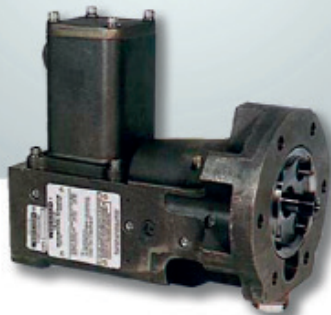
### LIQUID FUEL VALVE VALVE LQ

- > for gas turbines
- > fuel dosage
- > self-cleaning
- > ATEX models



### LINEAR ACTUATOR FOR TURBINES TM25 - 200LP

- > proportional actuator
- > electrohydraulic



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