



**CCI FasTrak[®]
High Capacity
Smart Positioner**

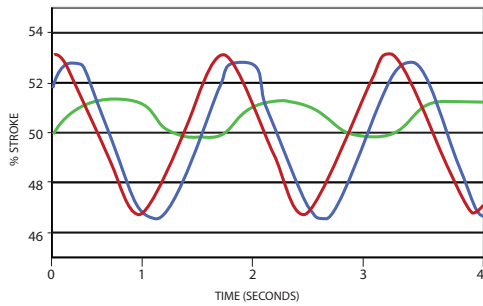


CCI provides the next level of control valve performance

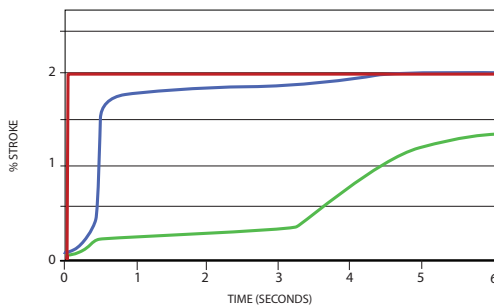
CCI provides the next level of control valve performance with FasTrak®, a high capacity digital positioner that delivers unprecedented speed and dynamic control. This enables increased plant efficiency, reduced total cost of ownership, and quicker start ups due to ease of installation and tuning. FasTrak® simplifies your control system by eliminating boosters, reducing equipment and maintenance costs.



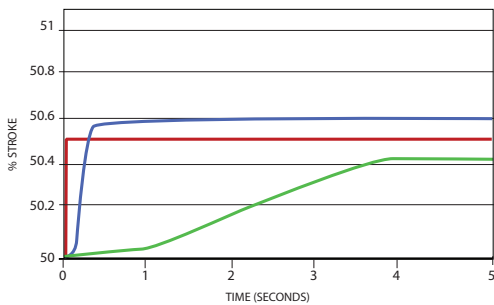
■ Required Position ■ FasTrak® ■ Standard+ Boosters



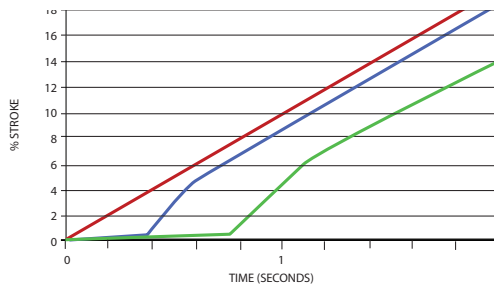
1 Hz Sin Wave Test. 6% Stroke Amplitude



0-2% Step Response Test. 1000 = 1Sec



50 to 50.5% Step Response



Signal Ramp 0 to 20%

Improved Plant Efficiency

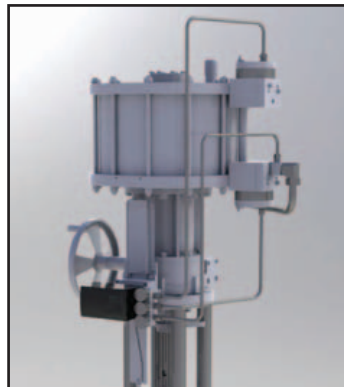
- Tight process control
- Recover from disturbances faster
- Reduce impact of upsets
- Consistent performance over time without degradation
- Fast and accurate valve feedback

Lower Equipment and Maintenance Costs

- Eliminates boosters
 - Reduces maintenance costs
 - Reduces replacement part inventory
- Eliminates external feedback device

Easy to Install and Tune for Quicker Start Ups

- Easy auto calibration
- Removing boosters reduces setup and tuning time by 75%
- Tuning adjustments are not required
- Optional RCFT (Remote Control FasTrak®) software provides real-time performance feedback and complete management of control parameters.



FasTrak® simplifies your actuation solution

STI - FT Positioner System - Remote Control (Pwd Level: 2)

File Device Password Data Recording Graph Help

Home Graph Key Device

SYSTEM SETUP

TRAVEL CONTROL

Open cutoff/limit (%) Cut Off
 Close cutoff/limit (%) Cut Off

TUNING

MONO

Kp opening
 Kp closing
 Ti opening (ms) Enabled
 Ti closing (ms) Enabled
 Td opening (ms)
 Td closing (ms)
 Dead band (%)
 Open vel. limit (s/100%) Enabled
 Close vel. limit (s/100%) Enabled
 Damping factor open
 Damping factor close
 Switched ctrl err threshold (%)
 Sweep pressure (bar)
 Switched control function Enabled

MAIN VARS
 ActPos **49,93** %
 ReqPos **49,94** %
 ErrPos **0,01** %
 Input **11,99** mA

PRESS
 PI **5,69** bar
 PA **2,43** bar
 DP **0,23** bar

TE
 TE **16,8** C

SERVICE STATE
 In Service

CALIBRATION STATUS
 Status
 Progr./Err.
 Data Source

SIGNAL FAIL
 Signal Fail Action

POSITION SENSOR
 Pos. raw ADC reading (bits)
 Pos. ADC Lower limit (bits)
 Pos. ADC Upper limit (bits)
 Position Sensor Adjustment

DIGITAL INPUTS / OUTPUTS
 Digital Input 1
 Digital Input 2
 Digital Outputs 1-2

SYSTEM CALIBRATION

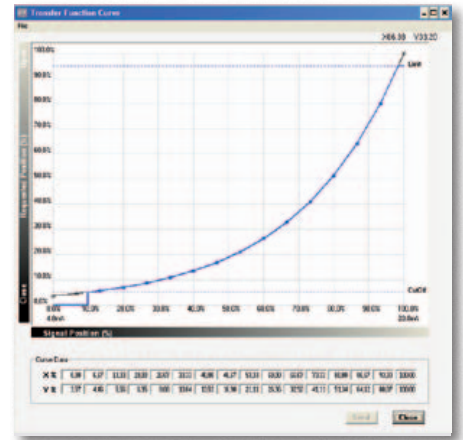
4-20mA CALIBRATION
 Loop Current ADC 4mA

SPLIT RANGE INPUT
 Lower range value (%)
 Upper range value (%)
 Setpoint range function Enabled

INPUT CHAR.
 Transfer Function

ANALOG OUTPUTS
 Analog Feedback

STI **CFG** HART ADV



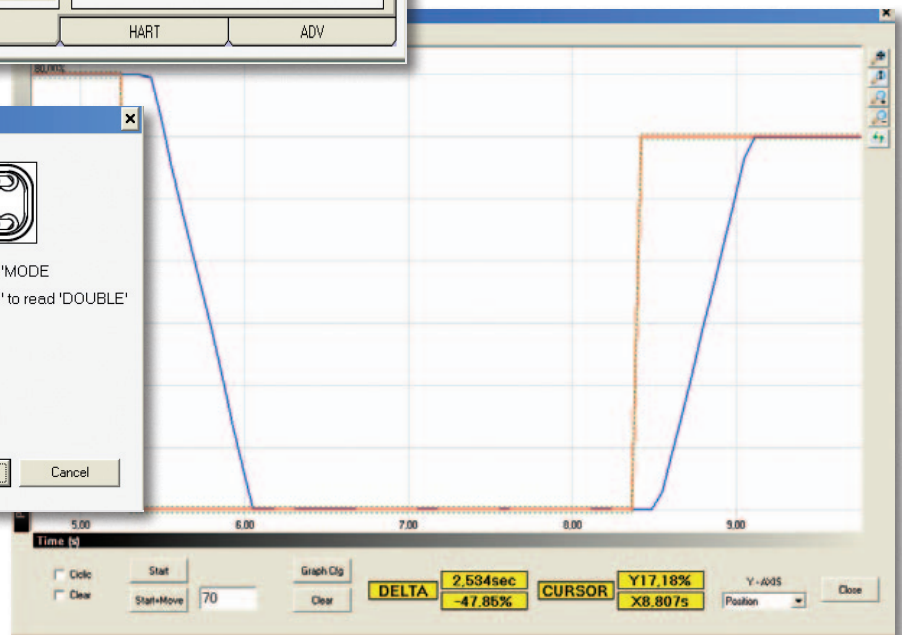
STI Set-up Wizard

Select Actuator Type

Single Acting
 Double Acting
 Double Acting with spring
 Don't Know

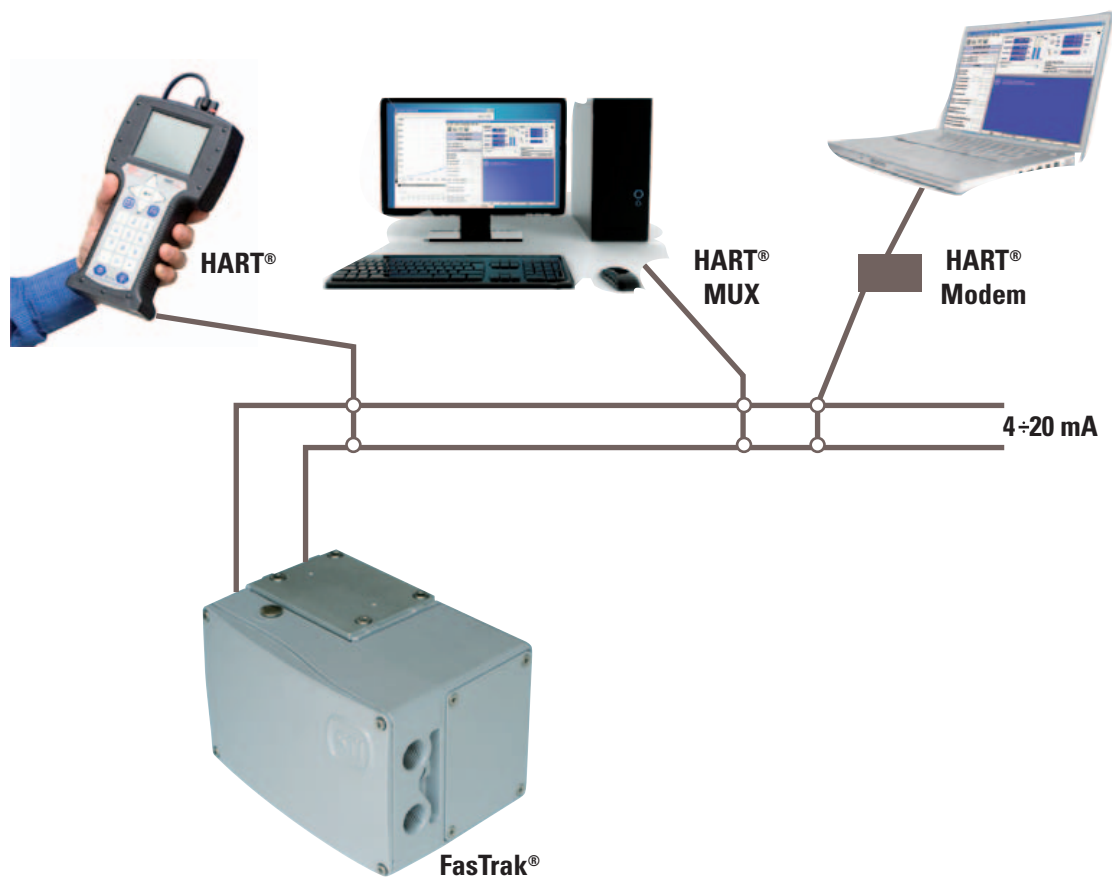
- Move the inside 'MODE SELECT PLATE' to read 'DOUBLE'


Click next to continue.






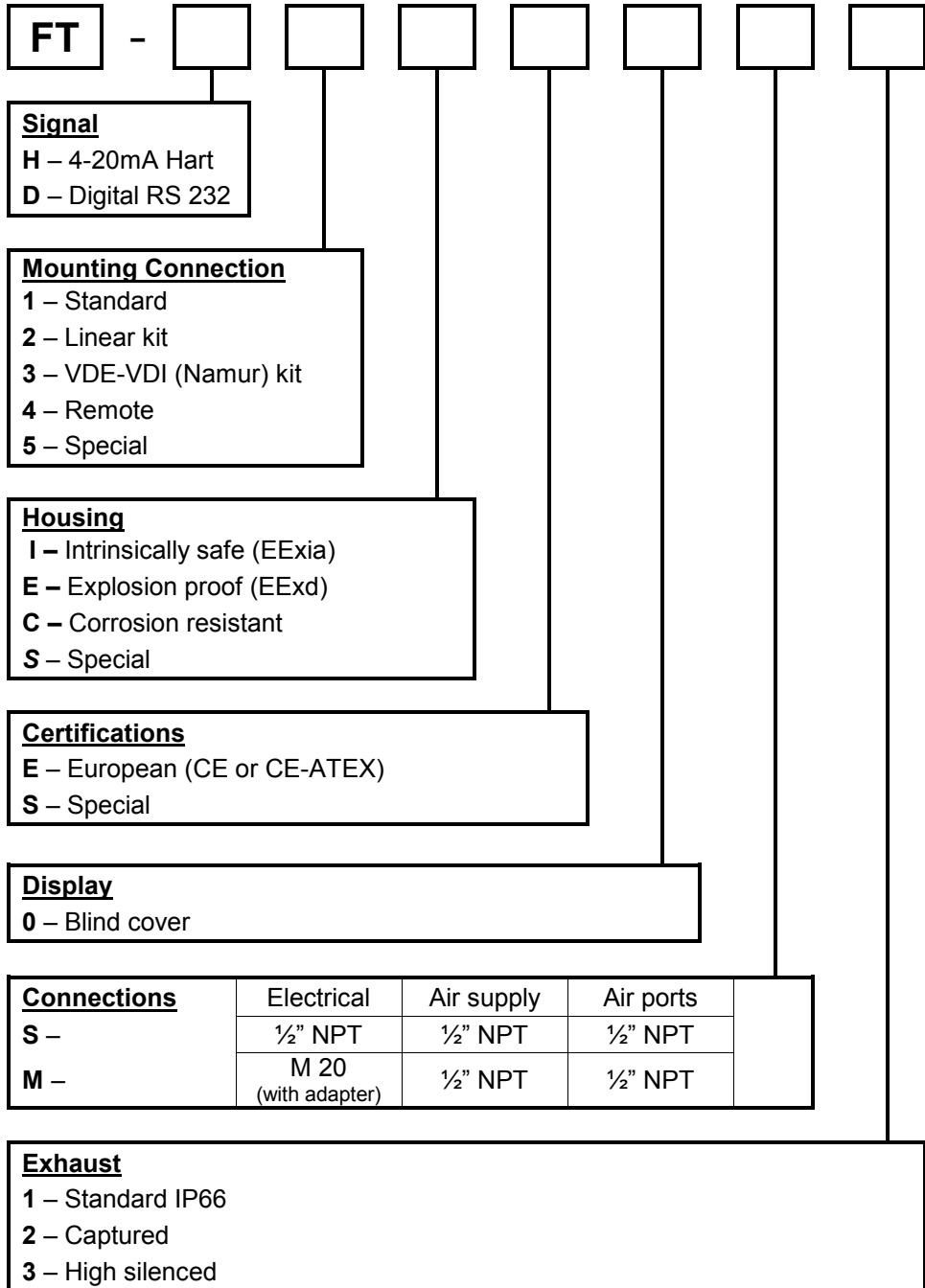
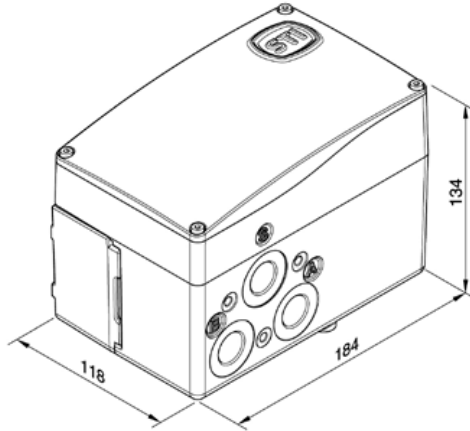
Remote Control Software Interface

- User friendly interface with all key parameters shown in one screen
- Tool for easy mechanical feedback alignment
- Self calibration wizard
- All parameters full control in a fine tuning expert page
- Graph tool for performance monitoring with configurable parameters
- Events and error reports
- Certified HART[®] protocol communication compliant



Connection	
Power	2 Wire from signal (min 3.5mA, 12-30Vdc)
Electrical Connections	Signal: 1/2" NPT (std) or M20x1.5 (opt) Auxiliary input/output : 1/2" NPT (std) or M20x1.5 (opt)
Pneumatic Connections	1/2 NPT female
Communication Standards	HART, USB 2.0 
Input Signal	4-20mA with HART® protocol; Configurable Split Range
On Off Input	Nr 2 configurable digital (optocoupler 24Vdc)
Position feedback	4-20mA passive loop (Standard)
On Off Output	Nr 2 configurable digital (optocoupler 24Vdc)
Stroke Movement	
Feedback Angle of Rotation	90°
Adjustable Speed	Range 0-300 Seconds, Individually configurable for each direction
Characteristic Curve	Linear; Equal percentable Custom
PID(?) Control Parameters	Individually configurable for each direction
Travel Control	Min. and Max. Setting; Stroke limits; Adjustable thrust on seat
Performance	
Flow Capacity Nm ³ /h at 6 bar (Cv)	180 (2.3 CV)
Action	Configurable: Single or Double
Steady State Air Consumption	1.5 Nm ³ /h at 6 bar
Hysteresis + Deadband	±0.15%
Repeatability	±0.15%

Performance (continued)	
Sensitivity	±0.1%
Linearity	±0.3%
Influence of Ambient Temp	0.3% for every 10°C
Capabilities	
Positioner Type	2 Wire Smart
Pressure Gauges	Optional, Bottom Mounted
Auto-Tuning Feature	✓
Display	None
Remote Mounting Option	✓
Material	Aluminum, Stainless Steel Feedback shaft
NAMUR Mounting	✓
Instrument Air	Free of oil, water and dust to ISO 8573-1
Air Quality Req. - Particle Size; Class per DIN ISO 8573-1. Class 3 is 5 micron.	Class 3
Compatibility with Natural Gas	Not Compatible
Supply Pressure	2.5 bar (26.3psig) to 10.0 bar (145psig)
Specifications	
Temperature Range (Std)	-30 to 80°C (-22 to 176°F)
Hazardous Area Classification	ATEX II 2G Ex ia IIC T6/T5/T4 
Enclosure Specifications	NEMA 4, IP66
Humidity	Up to 100%
CE Mark	CE Conformity and EMC 
GOST-R	✓ 
Vibration	Up to 2g (ISA S75.13)
Weight	3.25 kg





Contact us at: info@ccivalve.com

**For sales and service locations worldwide,
visit us online at: www.ccivalve.com**

Throughout the world, customers rely on CCI companies to solve their severe service control valve problems. CCI has provided custom solutions for these and other industry applications for more than 80 years.



We Solve Control Valve Problems®

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