

## Product Data Sheet

00813-0100-4839, Rev AB

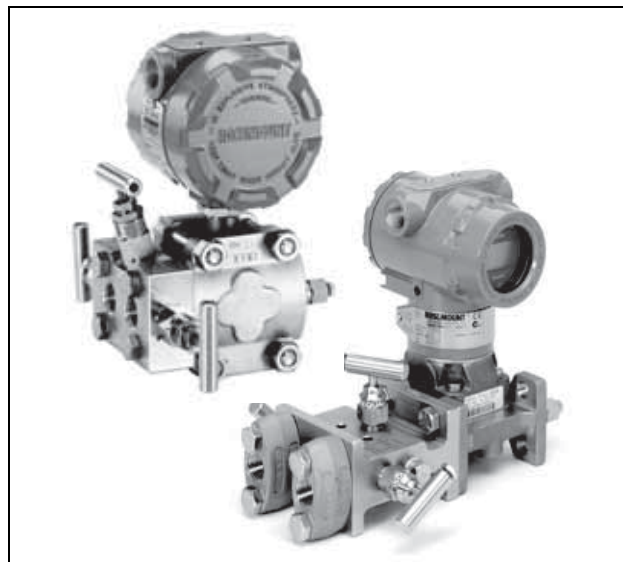
Catalog 2006 - 2007

## Rosemount 304 Manifold

# Rosemount Conventional Manifolds

### ROSEMOUNT 304 FEATURES AND BENEFITS

- *Factory assembled, seal-tested and calibrated*
- *Flange by Flange, Flange by NPT, and Wafer styles in 2, 3, and 5-valve configurations*
- *Reduce total installed cost*
- *Easy in-process calibration*



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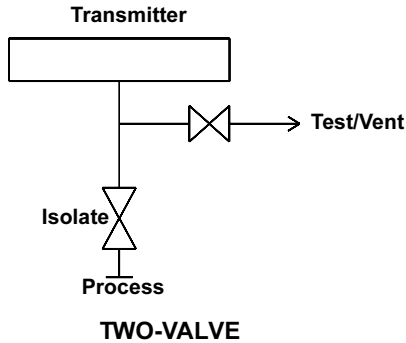
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Process Management

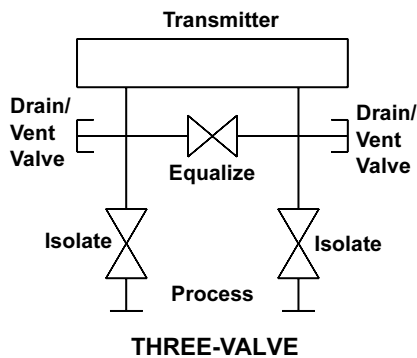
## Rosemount 304 Conventional Manifolds

Two-valve manifold is used with Rosemount 1151 and 3051 gage and absolute pressure transmitters. The first valve provides process isolation. The second valve allows capture of vented or drained process, and simplifies in-process calibration.

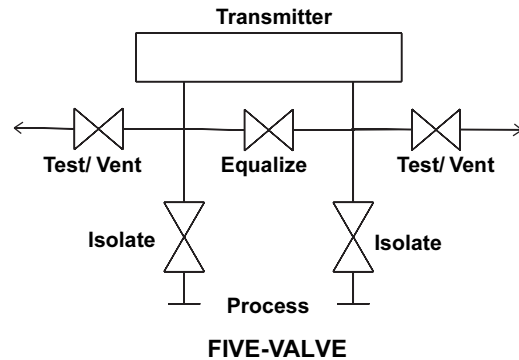


C/30530C2A

Three-valve manifolds are used with 3051 and 1151 differential pressure transmitters providing two isolation valves and one equalization valve.



5-valve manifolds are used with 3051 and 1151 differential pressure transmitters providing two isolation valves, one equalization valve, and two test/vent valves. The two vent valves allow for 100% capture of vented or drained process and simplified process calibration capability.



C/30532C2C

## Specifications

### Process Connection

Flange by Pipe:  $\frac{1}{2}$ –14 Female NPT process connection

Flange by Flange:  $2\frac{1}{8}$ -in. (54 mm) center to center connection; Rosemount flange adapters required for  $\frac{1}{2}$ –14 Female NPT.

Wafer:  $\frac{1}{2}$ –14 Female NPT process connection

### Instrument Connection

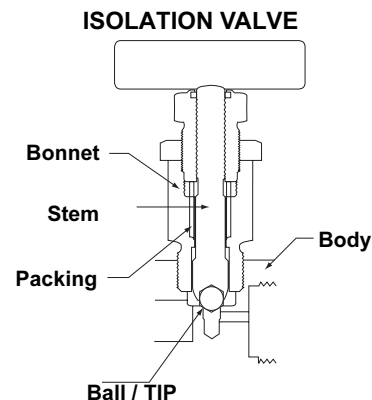
Direct mounted to transmitter flange,  $2\frac{1}{8}$  in. (54 mm) center to center connection per IEC 61518, Type B shut-off device.

### Estimated Weight

5.0 lbs (2.3 kg) for 2-valve traditional pipe by flange  
 5.5 lbs (2.5 kg) for 2-valve traditional flange by flange  
 5.2 lbs (2.4 kg) for 3-valve traditional pipe by flange  
 5.7 lbs (2.6 kg) for 3-valve traditional flange by flange  
 4.0 lbs (1.8 kg) for 3-valve wafer thread by flange  
 5.7 lbs (2.6 kg) for 5-valve wafer thread by flange  
 5.7 lbs (2.6 kg) for 5-valve traditional thread by flange  
 5.7 lbs (2.6 kg) for 5-valve traditional flange by flange

### Test Connections

$\frac{1}{4}$ –18 Female NPT



**Note: "Typical" Valve**

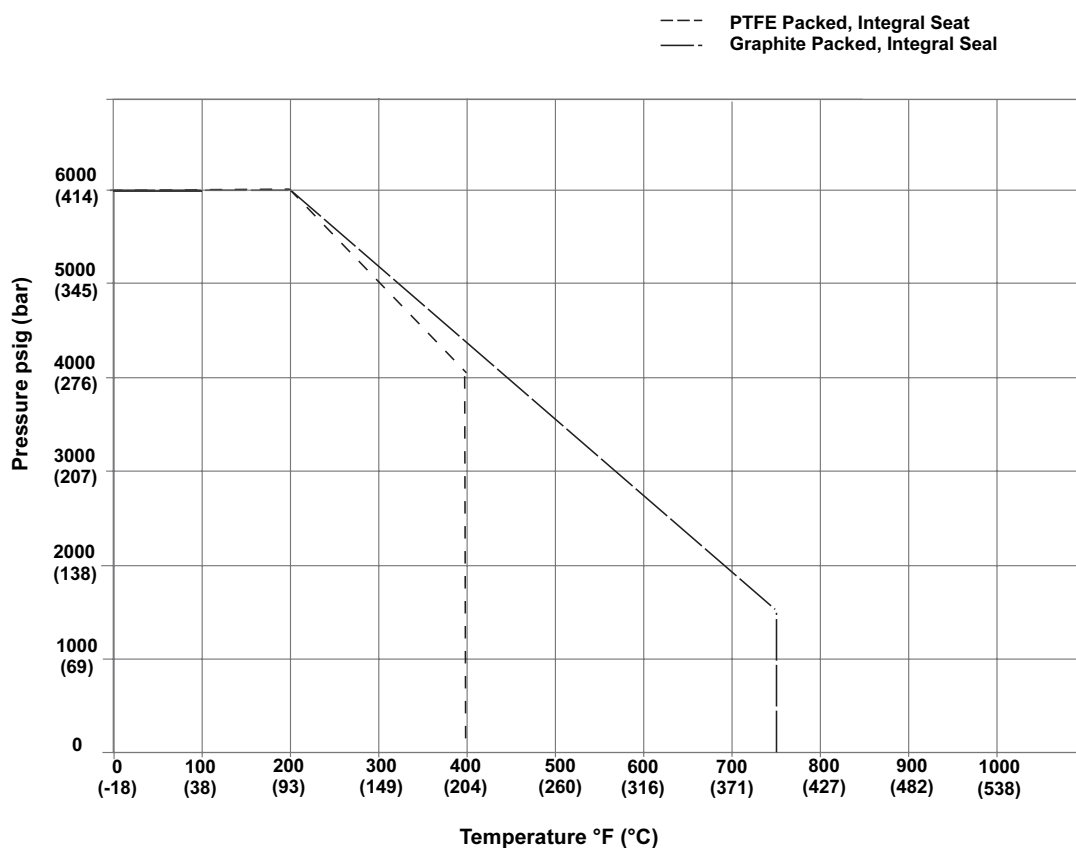
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# Rosemount 304 Manifold

FIGURE 1. Conventional Manifolds - Pressure vs. Temperature



### CONVENTIONAL MANIFOLDS - PRESSURE AND TEMPERATURE RATINGS

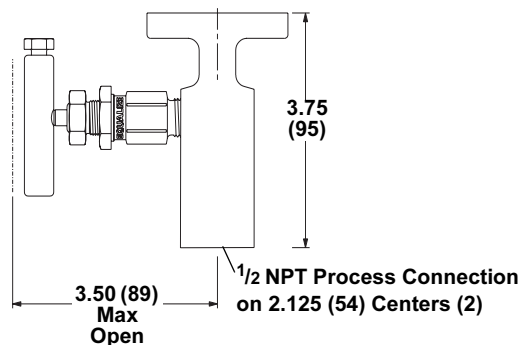
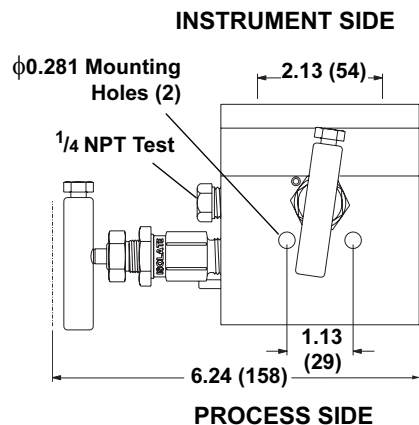
Packing	Seat	Pressure and Temperature Ratings
PTFE	Integral	6000 psi @ 200°F (414 bar @ 93°C) 4000 psi @ 400°F (276 bar @ 204°C)
Graphite	Integral	6000 psi @ 200°F (414 bar @ 93°C) 1500 psi @ 750°F (103 bar @ 399°C)

### PROCESS WETTED MATERIALS OF CONSTRUCTION- TYPICAL

Component	316SST	CS
Body	316 SST	CS A105
Ball / Tip	316 SST /316Ti SST	Tungsten Carbide
Stem	316 SST	316 SST
Packing	PTFE / Graphite	PTFE
Bonnet	316 SST	316 SST
Pipe Plug	316 SST	CS A105

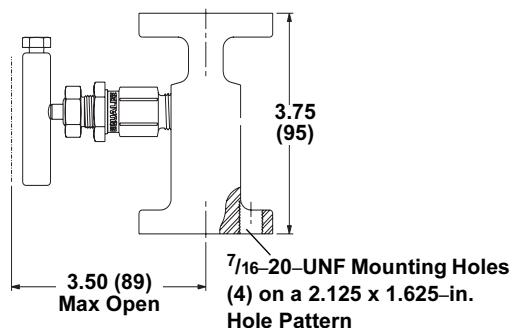
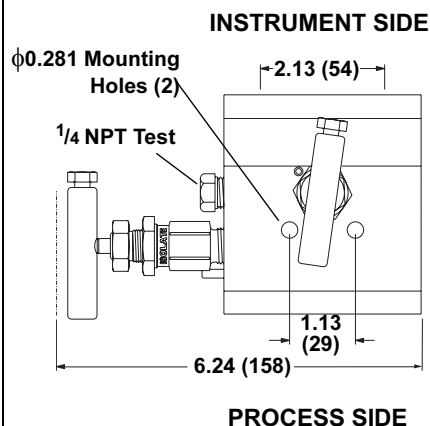
## Traditional Style Dimensional Drawings

### Rosemount 304 Two-Valve Flange X NPT Conventional Manifold



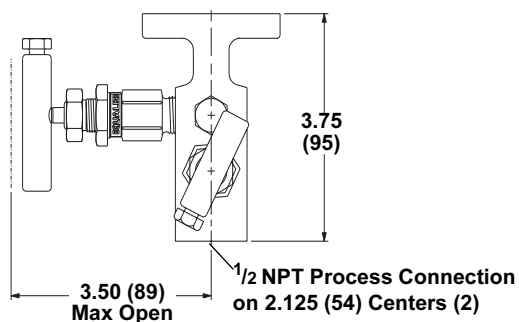
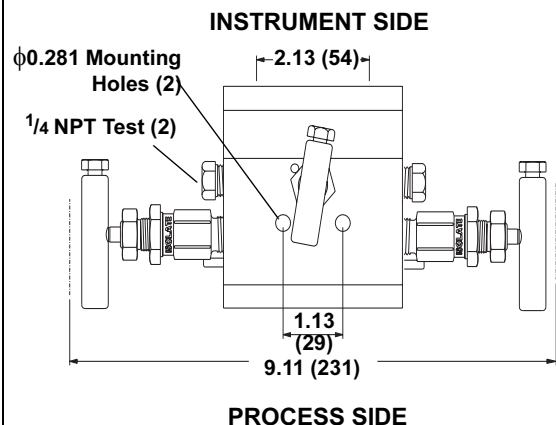
*Dimensions are in inches (millimeters)*

### Rosemount 304 Two-Valve Flange X Flange Conventional Manifold



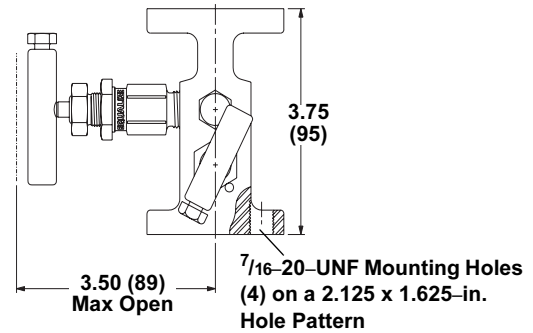
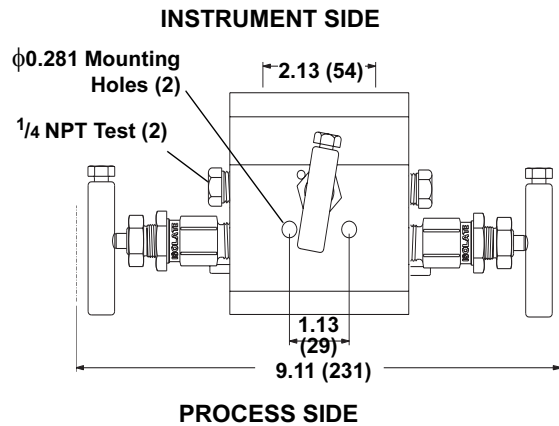
*Dimensions are in inches (millimeters)*

### Rosemount 304 Three-Valve Flange X NPT Conventional Manifold



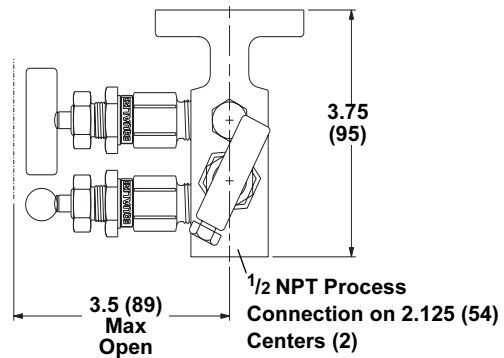
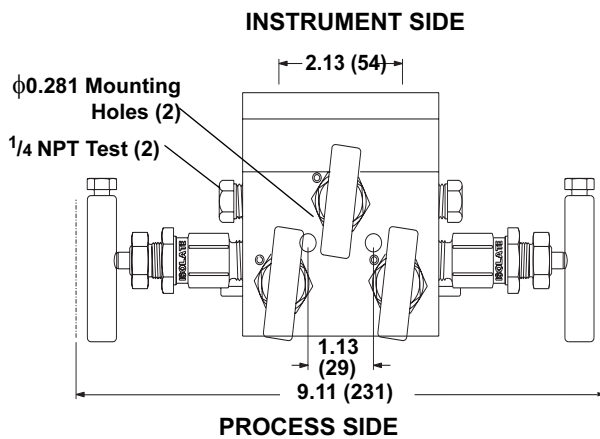
*Dimensions are in inches (millimeters)*

## Rosemount 304 Three-Valve Flange X Flange Conventional Manifold



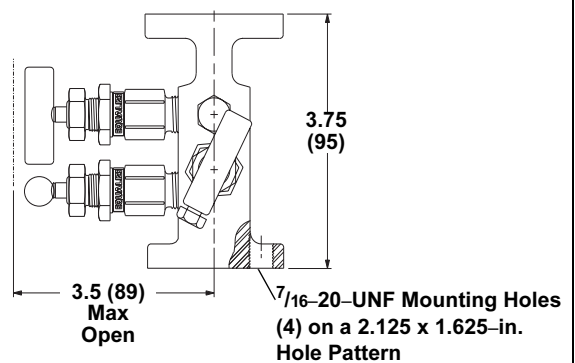
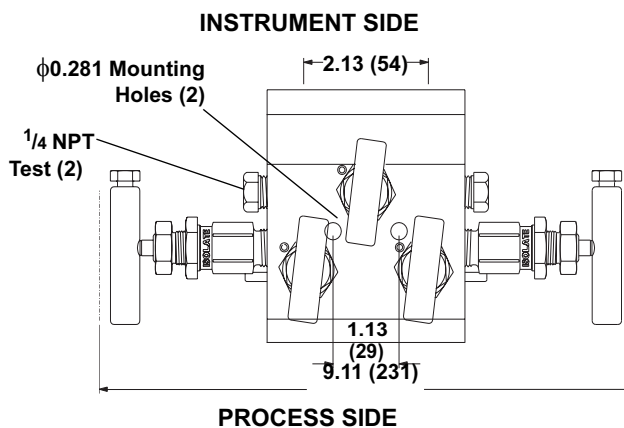
*Dimensions are in inches (millimeters)*

## Rosemount 304 Five-Valve Flange X NPT Conventional Manifold



*Dimensions are in inches (millimeters)*

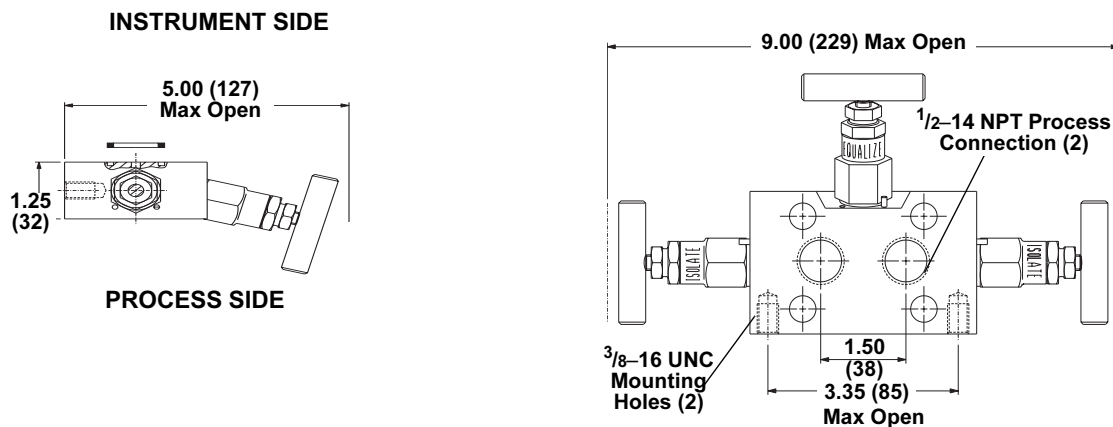
## Rosemount 304 Five-Valve Flange X Flange Conventional Manifold



*Dimensions are in inches (millimeters)*

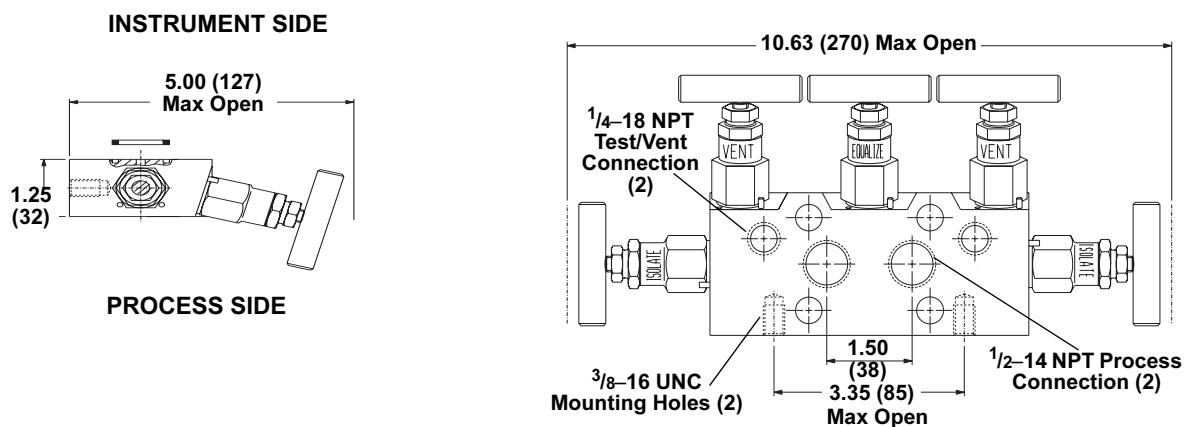
## Wafer Style Dimensional Drawings

### Rosemount 304 Three-Valve Wafer Manifold



*Dimensions are in inches (millimeters)*

### Rosemount 304 Five-Valve Wafer Manifold



*Dimensions are in inches (millimeters)*

## Ordering Information

TABLE 1. Rosemount 304 Ordering Information

Model	Product Description			
0304	Conventional Manifold			
Code	Manufacturer			
R	Rosemount Inc.			
Code	Manifold Style			
T	Traditional (Flange x Flange or Flange x NPT)			
W <sup>(1)</sup>	Wafer			
Code	Manifold Type			
2 <sup>(2)</sup>	2-valve			
3	3-valve			
5	5-valve			
Code	Materials of Construction			
	Body	Bonnet	Stem	Tip
1	CS A105	316 SST	316 SST	Tungsten Carbide
2	316 SST	316 SST	316 SST	316 SST
Code	Process Connection			
B	1/2-14 NPT			
F <sup>(2)</sup>	Flanged			
Code	Packing Material			
1	Teflon			
2 <sup>(1)</sup>	Graphite-based			
Code	Transmitter Type			
1	Assembly to 3051 Traditional Flange			
2	Assembly to 1151 or 3051/3095 DIN Compliant Traditional Flange			
3	Assembly to 3051/3095 Coplanar Flange			
Code	Options			
	Mounting Bracket			
VC <sup>(2)</sup>	Manifold Heavy Duty Mounting Bracket, CS for Traditional Style			
VS <sup>(2)</sup>	Manifold Heavy Duty Mounting Bracket, SST for Traditional Style			
B4	Manifold SST Mounting Bracket for 2-in. pipe mount with series 300 SST bolts for wafer style			
B1	Transmitter Bracket for 2-in. pipe mounting, CS bolts			
B3	Transmitter Flat Bracket for 2-in. pipe mounting, CS bolts			
B7	Transmitter B1 Bracket with series 300 SST bolts			
B9	Transmitter B3 Bracket with series 300 SST bolts			
BA	Transmitter SST B1 Bracket with series 300 SST bolts			
BC	Transmitter SST B3 Bracket with series 300 SST bolts			
	Adapters			
DF <sup>(3)</sup>	Flange Adapters			
	Bolts			
L4	Austentic 316 SST Bolts			
L5	ASTM A 193, Grade B7M Bolts			
Typical Conventional Manifold Model Number: 0304RT32B11VS				

(1) Not available with Material of Construction code 1.

(2) Not available with Manifold Style code W.

(3) Only allowed with both Manifold Style code T and Process Connection code F.

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# Rosemount 304 Manifold

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### Emerson Process Management

#### Rosemount Inc.

8200 Market Boulevard  
Chanhassen, MN 55317 USA  
T (U.S.) 1-800-999-9307  
T (International) (952) 906-8888  
F (952) 949-7001

[www.rosemount.com](http://www.rosemount.com)



#### Emerson Process Management

Heath Place  
Bognor Regis  
West Sussex PO22 9SH  
England  
T 44 (0) 1243 863121  
F 44 (0) 1243 867554

#### Emerson Process Management Asia Pacific Private Limited

1 Pandan Crescent  
Singapore 128461  
T (65) 6777 8211  
F (65) 6777 0947  
[Enquiries@AP.EmersonProcess.com](mailto:Enquiries@AP.EmersonProcess.com)



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