

# MODEL 403 BALL VALVE CONDUCTIVITY SENSOR Specification

<i>Specifications</i>	<i>Model 403-0.01</i>	<i>Model 403-0.02</i>	<i>Model 403-0.1</i>	<i>Model 403-0.2</i>	<i>Model 403-1.0</i>	<i>Model 403-2.0</i>	<i>Model 403-5.0</i>
<b>Measurement Range</b>	0 µS/cm to 10 µS/cm	0 µS/cm to 20 µS/cm	10 µS/cm to 1 000 µS/cm	20 µS/cm to 2 000 µS/cm	10 µS/cm to 10 000 µS/cm	20 µS/cm to 20 000 µS/cm	50 µS/cm to 50 000 µS/cm
<b>Temperature Range</b>	0 °C to 150 °C (32 °F to 302 °F)	0 °C to 150 °C (32 °F to 302 °F)	0 °C to 150 °C (32 °F to 302 °F)	0 °C to 150 °C (32 °F to 302 °F)	0 °C to 150 °C (32 °F to 302 °F)	0 °C to 150 °C (32 °F to 302 °F)	0 °C to 150 °C (32 °F to 302 °F)
<b>Pressure Range</b>	0 kPa to 689 kPa (0 psi to 100 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 kPa to 689 kPa (0 psi to 100 psi)	0 kPa to 689 kPa (0 psi to 100 psi)
<b>Sensing Element</b>	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Titanium	Titanium	Titanium
<b>Wetted Materials</b>	Stainless Steel, PEEK, Viton	Stainless Steel, PEEK, Viton	Stainless Steel, PEEK, Viton	Stainless Steel, PEEK, Viton	Stainless Steel, PEEK, Titanium, Viton	Stainless Steel, PEEK, Titanium, Viton	Stainless Steel, PEEK, Titanium, Viton
<b>Temperature Sensor</b>	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD	1000 Ω PT RTD
<b>Process Connections</b>	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve	0.75 in MNPT for direct insertion; 1.0 in MNPT via ball valve
<b>Pressure &amp; Temperature Limits at Insertion</b>	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)	689 kPa at 100 °C (100 psi at 212 °F) to 517 kPa at 150 °C (75 psi at 302 °F)
<b>Electrode Dimensions</b>	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)	<i>Length:</i> 41.9 cm (16.5 in) <i>Diameter:</i> 1.91 cm (0.75 in)
<b>Ball Valve (BV) Electrode Dimensions</b>	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)	<i>Retracted BV length:</i> 68.8 cm (27.0 in) <i>Inserted BV length:</i> 55.9 cm (22.0 in)
<b>Maximum Electrode Insertion Depth</b>	22.9 cm (9.0 in)	22.9 cm (9.0 in)	22.9 cm (9.0 in)	22.9 cm (9.0 in)	22.9 cm (9.0 in)	22.9 cm (9.0 in)	22.9 cm (9.0 in)
<b>Weight</b>	2.3 kg (5.0 lb)	2.3 kg (5.0 lb)	2.3 kg (5.0 lb)	2.3 kg (5.0 lb)	2.3 kg (5.0 lb)	2.3 kg (5.0 lb)	2.3 kg (5.0 lb)
<b>Shipping Weight</b>	3.2 kg (7.0 lb)	3.2 kg (7.0 lb)	3.2 kg (7.0 lb)	3.2 kg (7.0 lb)	3.2 kg (7.0 lb)	3.2 kg (7.0 lb)	3.2 kg (7.0 lb)
<b>Shipping Dimensions</b>	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)	81 cm × 15 cm × 15 cm (32 in × 6 in × 6 in)

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