


**LESLIE**  
CONTROLS, INC.

**PRODUCT  
SPECIFICATION  
FORMS**

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# DLO(S)-2 Linear Valve Specification Form

 <p><b>LESLEIE</b> <b>CONTROLS, INC.</b> <small>A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</small></p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____ Unit/Customer _____ P.O./LCO File # _____ Item _____ Contract _____ MFR Serial# _____	Data Sheet _____ of _____ Spec _____ Tag _____ Dwg _____ Service _____
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<b>Fluid</b> <input type="checkbox"/> Steam <input type="checkbox"/> Water <input type="checkbox"/> Gas _____ <input type="checkbox"/> Liquid _____	Crit Pres PC _____
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<b>Service Conditions</b>  Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____ Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____ Max Press/Temperature: _____ / _____ Density/MW/SG _____ / _____ / _____ Viscosity _____ CP Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure

Required C <sub>v</sub> _____	Noise (dBA) Allowable _____
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<b>Line Info</b> Pipe Size In _____ /Sch _____	Pipe Size Out _____ /Sch _____
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<b>Valve, Body &amp; Bonnet</b>	
Body Size in.	<input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> 1 <input type="checkbox"/> 1 1/2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 1/2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
ANSI Class	<input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> 250 <input type="checkbox"/> 300 <input type="checkbox"/> Other _____
Body/Bonnet Material:	<input type="checkbox"/> Cast Iron <input type="checkbox"/> Cast Steel <input type="checkbox"/> SST <input type="checkbox"/> Other _____
End Conn. Inlet/Outlet:	<input type="checkbox"/> NPT <input type="checkbox"/> SWE <input type="checkbox"/> BWE Sch. _____ <input type="checkbox"/> Int. Flanges <input type="checkbox"/> Other _____
Packing Material:	<input type="checkbox"/> PTFE <input type="checkbox"/> BTG <input type="checkbox"/> Laminated Graphite <input type="checkbox"/> DTFE <input type="checkbox"/> Other _____

<b>Trim Size</b>	<input type="checkbox"/> MT <input type="checkbox"/> 1/4 <input type="checkbox"/> 1/2 <input type="checkbox"/> 3/4 <input type="checkbox"/> 1 <input type="checkbox"/> 1 1/2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
	<input type="checkbox"/> MT <input type="checkbox"/> =% <input type="checkbox"/> Linear
	<input type="checkbox"/> 316SS <input type="checkbox"/> 316SS / Stellite <input type="checkbox"/> 316SS / TFE

<b>Actuator</b>	
Spring Action:	<input type="checkbox"/> Air to Open <input type="checkbox"/> Air to Close <input type="checkbox"/> Last Position <input type="checkbox"/> Other _____ <input type="checkbox"/> None
Available Air Supply Pressure:	Max. _____    Min. _____
Manual Override:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____

<b>Solenoid</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Voltage _____
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<b>Positioner</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Pneu <input type="checkbox"/> E/P
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<b>Switch</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Voltage _____
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<b>Air Set</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type: _____ <input type="checkbox"/> Range: _____
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<b>Other Accessories</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____
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<b>Test</b> ANSI/FCI Leakage Class:	<input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> VI
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# DLO ORDER CODE

Class	Material			Valve Size	End Conn.	Actuator	Bonnet Packing	Trim Size	Trim Type	Acces- sories
<b>U</b>	<b>8</b>	<b>5</b>	<b>1</b>	<b>A</b>	<b>1</b>	<b>A</b>	<b>1</b>	<b>D</b>	<b>F</b>	<b>0</b>
1	2	3	4	5	6	7	8	9	10	11

<b>Class</b> - Position 1 U
<b>Material</b> - Position 2, 3 & 4 851 = Iron 853 = Carbon Steel 854 = SST
<b>Valve Size</b> - Position 5 A = ½ B = ¾ C = 1 E = 1½ F = 2 G = 2½ H = 3 J = 4
<b>End Connection</b> - Position 6 1 = Threaded 2 = Flanged 125/150 3 = Flanged 250/300 4 = SWE Sch. 40 (steel only) 5 = BWE Sch. 40 (steel only) 6 = ND16 (steel only) 7 = ND40 8 = SWE Sch. 80 (steel only) 9 = BWE Sch. 80 (steel only) 0 = Other (Specify)

<b>Actuator</b> - Position 7 A = 35 B = 35R C = 35 HOD D = 35R HOD E = 55 F = 55R G <sup>1</sup> = 55A H <sup>1</sup> = 55AR I = 55 HOD J = 55R HOD K <sup>1</sup> = 55A HOD L <sup>1</sup> = 55AR HOD M = 85 N = 85R P = 85 HOD Q = 85R HOD X = w/o Actuator
<b>Bonnet &amp; Packing</b> - Position 8 1 = Std. Bonnet, BTG 2 = Std. Bonnet, Teflon® V-Ring 3 = Std. Bonnet, LG 4 = Std. Bonnet, Double Teflon®

<b>Trim Size</b> - Position 9 B <sup>2</sup> = ¼ D = ½ G = ¾ J = 1 L = 1½ M = 2 N = 2½ P = 3 R = 4
<b>Trim Type</b> - Position 10 B <sup>2</sup> = Micro-Taper F = Equal % 316 SS G <sup>3</sup> = Equal % 316 SS/TFE (RES) H = Equal % 316 SS/Stellite J = Linear 316 SS K <sup>3</sup> = Linear 316 SS/TFE (RES) L = Linear 316 SS/Stellite
<b>Number of Accessories</b> - Position 11 1 = 1 accessory 2 = 2 accessories 3 = 3 accessories 4 = 4 accessories 5 = 5 accessories 6 = 6 accessories 7 = 7 accessories 8 = 8 accessories 9 = 9 accessories 0 = 0 accessories


## TRIM AVAILABILITY CHART

TRIM DIA	CV <sup>4</sup>	STROKE	BODY SIZE (IN)							ACTUATOR <sup>1</sup>					
			½	¾	1	1½	2	2½	3	4	35(R)	55 (R)	55A(R)	85(R)	
¼MT	0.5	¾	●	●	●	—	—	—	—	—	—	●	●	—	—
¼	1.5	¾	●	●	●	—	—	—	—	—	—	●	●	—	—
½	4	¾	●	●	●	—	—	—	—	—	—	●	●	—	—
¾	9	¾	—	●	●	●	—	—	—	—	—	●	●	—	—
1	15	¾	—	—	●	*	●	—	—	—	—	●	●	—	—
1½	30	¾	—	—	—	●	*	●	●	—	—	●	●	—	—
2	57	1	—	—	—	—	●	*	●	●	—	—	—	●	●
2½	83	1¼	—	—	—	—	—	●	*	●	—	—	—	●	●
3	120	1½	—	—	—	—	—	—	—	●	—	—	—	●	●
4	201	2	—	—	—	—	—	—	—	—	—	—	—	●	●

1. 55A(R) used on trim sizes 2 through 4 only (Stem Connection 1/2").
2. Microtaper is available in 1/4" Stellite only Code BB.
3. Resilient seat DLOA, DLOAS available with full size trim only.
4. Minimum Cv controllable is Cv from table divided by rangeability.

\* Consult factory.

# DBO(Y)(S)-3 Linear Valve Specification Form

 <p style="font-size: small;">A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____ Unit/Customer _____ P.O./LCO File # _____ Item _____ Contract _____ MFR Serial# _____	Data Sheet _____ of _____ Spec _____ Tag _____ Dwg _____ Service _____
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<b>Fluid</b> <input type="checkbox"/> Steam <input type="checkbox"/> Water <input type="checkbox"/> Gas _____ <input type="checkbox"/> Liquid _____	Crit Pres PC _____
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<b>Service Conditions</b>  Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____ Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____ Max Press/Temperature: _____ / _____ Density/MW/SG _____ / _____ / _____ Viscosity _____ CP Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure

Required C<sub>v</sub> \_\_\_\_\_                      Noise (dBA) Allowable \_\_\_\_\_

**Line Info**    Pipe Size In \_\_\_\_\_ /Sch \_\_\_\_\_    Pipe Size Out \_\_\_\_\_ /Sch \_\_\_\_\_

**Valve, Body & Bonnet**

Body Size in.     2     2½     3     4     6     8

ANSI Class     125     150     250     300     600     Other \_\_\_\_\_

Body/Bonnet Material:     Cast Iron     Cast Steel     Cr Mo     Other \_\_\_\_\_

End Conn. Inlet/Outlet:     NPT     SWE     BWE Sch. \_\_\_\_\_     Int. Flanges     Other \_\_\_\_\_

Packing Material:     PTFE     BTG     Laminated Graphite     DTFE     Other \_\_\_\_\_

**Trim Size**     100%     40%     Les-Cav     Les-sonic     Other \_\_\_\_\_

**Actuator**

Spring Action:     Air to Open     Air to Close     Last Position     Other \_\_\_\_\_     None

Available Air Supply Pressure:    Max. \_\_\_\_\_    Min. \_\_\_\_\_

Manual Override:     Yes     No     Type \_\_\_\_\_

**Solenoid**     Yes     No     Type \_\_\_\_\_     Voltage \_\_\_\_\_

**Positioner**     Yes     No     Type \_\_\_\_\_     Pneu     E/P

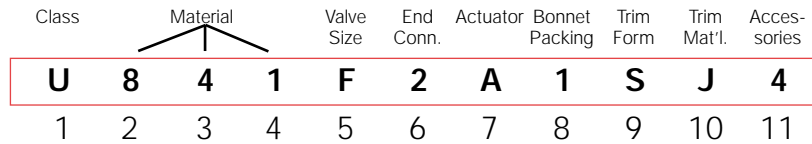
**Switch**     Yes     No     Type \_\_\_\_\_     Voltage \_\_\_\_\_

**Air Set**     Yes     No     Type: \_\_\_\_\_     Range: \_\_\_\_\_

**Other Accessories**     Yes     No     Type \_\_\_\_\_

**Test** ANSI/FCI Leakage Class:     III     IV     V     VI


# DBO(Y)(S)-3 ORDER CODE



<p><b>Class</b> - Position 1 U</p>	<p><b>Actuator</b> - Position 7 A = 35 B = 35R C = 35 HOD D = 35R HOD E = 55<sup>1</sup> F = 55R<sup>1</sup> G = 55A H = 55AR<sup>1</sup> I = 55 HOD<sup>1</sup> J = 55R HOD<sup>1</sup> K = 55A HOD<sup>1</sup> L = 55AR HOD<sup>1</sup> M = 85/85A<sup>2</sup> N = 85R/85AR<sup>2</sup> P = 85/85A HOD<sup>2</sup> Q = 85R/85AR HOD<sup>2</sup> R = 135 S = 135R T = 135 HOD U = 135R HOD V = 270 W = 270R X = w/o Actuator Y = 270 HOD Z = 270R HOD</p>	<p><b>Bonnet &amp; Packing</b> - Position 8 1 = Std. Bonnet, BTG 2 = Std. Bonnet, Teflon® V-Ring 3 = Std. Bonnet, LG 4 = Std. Bonnet, DTFE</p>
<p><b>Material</b> - Position 2, 3 &amp; 4 841 = Iron 843 = Carbon Steel 845 = Chrome Moly, WC9 XXX = Other</p>	<p><b>Trim Form</b> - Position 9 S = Full Capacity T = Reduced 40% Capacity V = Les-Cav W = Les-Sonic</p>	<p><b>Trim Material</b> - Position 10 J = Standard 400 SS L = Stellite® Hard Faced P = DBOS, Hi-Temp HF V = TFE Soft Seat</p>
<p><b>Valve Size</b> - Position 5 F = 2 G = 2½ H = 3 J = 4 K = 6 L = 8</p>	<p><b>End Connection</b> - Position 6 1 = Threaded 2 = Flanged 125/150 3 = Flanged 250/300 4 = SWE Sch. 40 (Steel &amp; Chrome Moly only) 5 = BWE Sch.40 (Steel &amp; Chrome Moly only) 6 = ND 16 (Steel, Chrome Moly 2"-6" &amp; Iron) 7 = ND 40 Steel ND 10 (Iron only 8") 8 = Flanged 600 Steel 9 = BWE 80 Steel 0 = ND 100 Steel A = RTJ 300 B = RTJ 600 C = SWE Sch. 80 (Steel &amp; Chrome Moly only) D = ND64</p>	<p><b>Accessories</b> - Position 11 1 = 1 accessory 2 = 2 accessory 3 = 3 accessory 4 = 4 accessory 5 = 5 accessory 6 = 6 accessory 7 = 7 accessory 8 = 8 accessory 9 = 9 accessory 0 = 0 accessory</p>
<p>DigiDBOY: Specify X for Actuator (Position 7) Specify Actuator, Mounting Kit and each option as a separate line item.</p>		

1. 55/R used on 2" D(D)BOY(S)-3; 55A/AR used on 2½" - 4" valves.
2. 85A/AR used on 6" D(D)BOY(S)-3; 85/R used on 2½" - 4" valves.

# AEROFLOW Linear Valve Specification Form

 <p><b>LESIE CONTROLS, INC.</b> A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="font-size: 1.2em; font-weight: bold; color: red;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____ Unit/Customer _____ P.O./LCO File # _____ Item _____ Contract _____ MFR Serial# _____	Data Sheet _____ of _____ Spec _____ Tag _____ Dwg _____ Service _____
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<b>Fluid</b> <input type="checkbox"/> Steam <input type="checkbox"/> Water <input type="checkbox"/> Gas _____ <input type="checkbox"/> Liquid _____	Crit Pres PC _____
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<b>Service Conditions</b> Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____ Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____ Max Press/Temperature: _____ / _____ Density/MW/SG _____ / _____ / _____ Viscosity _____ CP Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____ Required C <sub>v</sub> _____    Noise (dBA) Allowable _____	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 25%;">Max. Flow</th> <th style="width: 25%;">Norm. Flow</th> <th style="width: 25%;">Min. Flow</th> <th style="width: 25%;">Shut-off Pressure</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure																								
Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure																										

<b>Line</b> Pipe Size/Sch. In _____ /Sch _____ Pipe Size/Sch. Out _____ /Sch _____ Pipe Line Insulation _____ in. _____	<b>Actuator</b> >Type <input type="checkbox"/> DA <input type="checkbox"/> SR <input type="checkbox"/> DASR <input type="checkbox"/> Diaph <input type="checkbox"/> EHA <input type="checkbox"/> Electr. <input type="checkbox"/> Other *Mfr./Model _____ / _____ *Size/Eff Area <input type="checkbox"/> 6"/28 in <sup>2</sup> <input type="checkbox"/> 10"/80 in <sup>2</sup> <input type="checkbox"/> 13"/130 in <sup>2</sup> <input type="checkbox"/> 16"/200 in <sup>2</sup> <input type="checkbox"/> 20"/300 in <sup>2</sup> <input type="checkbox"/> Other <input type="checkbox"/> On/Off <input type="checkbox"/> Modulating Spring Action/Air Failure <input type="checkbox"/> Open <input type="checkbox"/> Closed <input type="checkbox"/> None Spring # _____ *Max. Allowable Press. _____ *Min. Required Press. _____ psig Available Air Supply Press. _____ Max. _____    Min. _____ *Bench Range _____ psig <input type="checkbox"/> N/A Act. Orientation <input type="checkbox"/> Horiz. <input type="checkbox"/> Vert. (Std.) Override Type <input type="checkbox"/> Hyd. Override <input type="checkbox"/> None Air Failure Valve <input type="checkbox"/> Opens <input type="checkbox"/> Closes <input type="checkbox"/> Last Tubing <input type="checkbox"/> SST <input type="checkbox"/> Copper <input type="checkbox"/> 3/8" <input type="checkbox"/> 1/2" <input type="checkbox"/> _____ Data Tag: <input type="checkbox"/> Brass <input type="checkbox"/> SST
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<b>Valve Body and Bonnet</b> Type <input type="checkbox"/> Globe <input type="checkbox"/> Angle *Body Size inches <input type="checkbox"/> 1 <input type="checkbox"/> 1½ <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 10 <input type="checkbox"/> 12 <input type="checkbox"/> 16 ANSI Class <input type="checkbox"/> 150 <input type="checkbox"/> 300 <input type="checkbox"/> 600 <input type="checkbox"/> 900 <input type="checkbox"/> 1500 <input type="checkbox"/> 2500 <input type="checkbox"/> 4500 Design. Press. Temp _____ / _____ Mfr./Model: Leslie/Aeroflow Body/Bonnet Mat'l <input type="checkbox"/> WCB <input type="checkbox"/> WC9 <input type="checkbox"/> CF8M <input type="checkbox"/> C12A <input type="checkbox"/> _____	<b>Solenoid</b> <input type="checkbox"/> Asco/8320G174 <input type="checkbox"/> None <input type="checkbox"/> Other Mfr./Model _____ / _____
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------

End Conn Inlet/Outlet <input type="checkbox"/> Flg RF <input type="checkbox"/> Thd <input type="checkbox"/> RTJ <input type="checkbox"/> SWE <input type="checkbox"/> BWE/Sch _____ <input type="checkbox"/> In BWE/Sch _____ <input type="checkbox"/> In SWE _____ <input type="checkbox"/> Out BWE/Sch _____ <input type="checkbox"/> Out SWE _____ <input type="checkbox"/> In Stubs/Sch _____    Length (in.) _____ <input type="checkbox"/> Out Stub/Sch _____    Length (in.) _____ <input type="checkbox"/> Exp _____ x _____    In/Sch _____ <input type="checkbox"/> Exp _____ x _____    Out/Sch _____ Flg. Face Finish _____ RMS <input type="checkbox"/> Std. (125-500) End Ext/Mat'l. _____	<b>Post</b> Input Signal <input type="checkbox"/> 3-15 psi <input type="checkbox"/> 4-20 mA <input type="checkbox"/> _____ >Type <input type="checkbox"/> Pneu. <input type="checkbox"/> I/P <input type="checkbox"/> None *Mfr./Model _____ / _____ *On Incr. Signal Output <input type="checkbox"/> Incr. <input type="checkbox"/> Decr. Gauges <input type="checkbox"/> Yes <input type="checkbox"/> No,    By-Pass <input type="checkbox"/> Yes <input type="checkbox"/> No *Cam Charact. <input type="checkbox"/> Linear <input type="checkbox"/> =% <input type="checkbox"/> Sq.Root
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

*Flow <input type="checkbox"/> Over <input type="checkbox"/> Under Seat *Type Bonnet <input type="checkbox"/> Std *Packing Mat'l <input type="checkbox"/> LG <input type="checkbox"/> BTG <input type="checkbox"/> DTFE <input type="checkbox"/> Live Loaded <input type="checkbox"/> Other	<b>Switch</b> >Type <input type="checkbox"/> Mech <input type="checkbox"/> Prox <input type="checkbox"/> Other *Mfr./Model _____ / _____ Contacts/Rating <input type="checkbox"/> SPDT <input type="checkbox"/> DPDT Actuation points: <input type="checkbox"/> Both <input type="checkbox"/> Open <input type="checkbox"/> Closed NEMA Class 1,4, & 13
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<b>Trim</b> >Type <input type="checkbox"/> UBP <input type="checkbox"/> MT <input type="checkbox"/> Mini-P <input type="checkbox"/> UBC <input type="checkbox"/> BH <input type="checkbox"/> BL <input type="checkbox"/> PB <input type="checkbox"/> T2 Les-Sonic Cage <input type="checkbox"/> Yes Les-Cav <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V C3 <input type="checkbox"/> Yes *Characteristic <input type="checkbox"/> Linear <input type="checkbox"/> =% <input type="checkbox"/> QO <input type="checkbox"/> Custom Travel <input type="checkbox"/> Std. <input type="checkbox"/> Ext <input type="checkbox"/> Max *Rated Cv _____ % Max.    Cv = _____ <input type="checkbox"/> Malcomizing (150-600 CL > 700°F, 900-4500 CL > 650°F)	<b>Airset</b> *Mfr./Model: Leslie/ <input type="checkbox"/> AFG-2 <input type="checkbox"/> ASG-1 <input type="checkbox"/> None *Set Press. _____ PSIG _____ / _____ Filter <input type="checkbox"/> Yes <input type="checkbox"/> No    Gauge <input type="checkbox"/> Yes <input type="checkbox"/> No Range: Max <input type="checkbox"/> 30psi <input type="checkbox"/> 60 psi <input type="checkbox"/> 100psi <input type="checkbox"/> 150psi
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<b>Special ACC</b> NEC Class    _____    Group    _____    Div.    _____	<b>Test</b> *Hydro Pressure ANSI/FCI Leakage Class <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> VI <input type="checkbox"/> Zero CC/min
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# K-MAX Rotary Valve Specification Form

 <p><b>LESLIE CONTROLS, INC.</b> A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____ Unit/Customer _____ P.O./LCO File # _____ Item _____ Contract _____ MFR Serial# _____	Data Sheet _____ of _____ Spec _____ Tag _____ Dwg _____ Service _____																																			
<b>Fluid</b> <input type="checkbox"/> Steam <input type="checkbox"/> Water <input type="checkbox"/> Gas _____ <input type="checkbox"/> Liquid _____		Crit Pres PC _____																																			
<p><b>Service Conditions</b></p> Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____ Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____ Max Press/Temperature: _____ / _____ Density/MW/SG _____ / _____ / _____ Viscosity _____ CP Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____ Required C <sub>v</sub> _____                      Noise (dBA) Allowable _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Max. Flow</th> <th style="width: 25%;">Norm. Flow</th> <th style="width: 25%;">Min. Flow</th> <th style="width: 25%;">Shut-off Pressure</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure																																
Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure																																		
<b>Line Info</b> Pipe Size In _____ /Sch _____    Pipe Size Out _____ /Sch _____																																					
<p><b>Valve, Body &amp; Bonnet</b></p> Body Size in. <input type="checkbox"/> 1 <input type="checkbox"/> 1½ <input type="checkbox"/> 2 <input type="checkbox"/> 2½ <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 ANSI Class <input type="checkbox"/> 150 <input type="checkbox"/> 300 <input type="checkbox"/> 600 <input type="checkbox"/> Other _____ Body/Bonnet Material: <input type="checkbox"/> Cast Iron <input type="checkbox"/> 316SS <input type="checkbox"/> Hast C <input type="checkbox"/> Titanium <input type="checkbox"/> Other _____ End Conn. Inlet/Outlet: <input type="checkbox"/> Wafer <input type="checkbox"/> Sep. Flanges <input type="checkbox"/> Int. Flanges <input type="checkbox"/> Other _____ Packing Material: <input type="checkbox"/> PTFE <input type="checkbox"/> Laminated Graphite <input type="checkbox"/> Teflon Chevron w/Viton O'ring bearing seals <input type="checkbox"/> Other _____																																					
<b>Trim Size</b> <input type="checkbox"/> 100% <input type="checkbox"/> 60% <input type="checkbox"/> 40% <input type="checkbox"/> 20% <input type="checkbox"/> Other _____    Flow to: <input type="checkbox"/> Open <input type="checkbox"/> Closed																																					
<p><b>Actuator</b></p> Spring Action: <input type="checkbox"/> Air to Open <input type="checkbox"/> Air to Close <input type="checkbox"/> Last Position <input type="checkbox"/> Other _____ <input type="checkbox"/> None Available Air Supply Pressure:        Max. _____        Min. _____ Orientation: <input type="checkbox"/> Standard <input type="checkbox"/> 90° <input type="checkbox"/> 180° <input type="checkbox"/> 270° Manual Override: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____																																					
<b>Solenoid</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Voltage _____																																					
<b>Positioner</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Pneu <input type="checkbox"/> E/P																																					
<b>Switch</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Voltage _____																																					
<b>Air Set</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type: _____ <input type="checkbox"/> Range: _____																																					
<b>Other Accessories</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____																																					
<b>Test</b> ANSI/FCI Leakage Class: <input type="checkbox"/> IV <input type="checkbox"/> V <input type="checkbox"/> VI																																					

# K-MAX ORDERING CODE

Class	Material	Valve Size	End Conn.	Valve Rating	Trim Material	Trim Factor	Shutoff Class	Packing	Flow Direction	Actuator	Spring	H.O.D.	Actuator Orientation	# of Accessories	
<b>K</b>	<b>R</b>	<b>C</b>	<b>2</b>	<b>W</b>	<b>1</b>	<b>S</b>	<b>1</b>	<b>4</b>	<b>T</b>	<b>C</b>	<b>B</b>	<b>6</b>	<b>N</b>	<b>2</b>	<b>0</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

<p><b>Class</b> - Position 1 &amp; 2 KR</p> <p><b>Material</b> - Position 3 C = WCB (Carbon Steel) S = CF8M (SST) A = CN7M (Alloy 20) H = CX2MW (Hastelloy C22) T = Grade C-3 (Titanium Grade 3) X = Other</p> <p><b>Valve Size</b> - Position 4 0 = 1" 1 = 1½" 2 = 2" 3 = 3" 4 = 4" 6 = 6" 8 = 8" X = Other</p> <p><b>End Connection</b> - Position 5 W = Wafer L<sup>2</sup> = CS separable flanges S<sup>1</sup> = SS separable flange F = Integral flanges X = Other</p>	<p><b>Valve Rating</b> - Position 6 1 = ANSI 150 2 = ANSI 300 3 = ANSI 600 4 = ANSI 150 Special Class 5 = ANSI 300 Special Class 6 = ANSI 600 Special Class X = Other</p> <p><b>Trim Material</b> - Position 7 S = Std 316 SS P = Partial Stellite F = Full Stellite A = Alloy 20<sup>3</sup> H = Hast C<sup>3</sup> T = Titanium R = 316/TFE<sup>4</sup> X = Other</p> <p><b>Trim Factor</b> - Position 8 1 = Full 6 = 0.6 4 = 0.4 2 = 0.2 X = Other</p> <p><b>Shutoff</b> - Position 9 4 = Class IV, Standard 5 = Class V, Optional 6 = Class VI, soft seat only</p> <p><b>Packing</b> - Position 10 G = Laminated Graphite T = Teflon-Chevron V = Teflon<sup>5</sup> X = Other</p>	<p><b>Flow Direction</b> - Position 11 O = Flow to Open C = Flow to Close</p> <p><b>Actuator</b> - Position 12 A = DR-40-D B = DR-40-R C = DR-55-D D = DR-55-R E = DR-85-D F = DR-85-R N = None/bare stem<sup>6</sup></p> <p><b>Spring</b> - Position 13 2 = 20 3 = 35 6 = 60 (Standard)</p> <p><b>H.O.D.</b> - Position 14 N = None H = Handwheel J = HandJack</p> <p><b>Actuator Orientation</b> - Position 15 A = Standard B = 90° C = 180° D = 270°</p> <p><b># of Accessories</b> - Position 16 1 = 1 accessory 2 = 2 accessories 3 = 3 accessories 4 = 4 accessories 5 = 5 accessories 6 = 6 accessories 7 = 7 accessories 8 = 8 accessories 9 = 9 accessories 0 = No accessories</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

NOTE: Consult factory for configurations not listed above.

1. Separable flanges available in 1" - 6", ANSI 150-300 only.
2. Carbon steel separable flanges only good to 800° F service.
3. Optional in 316 & CS valves.
4. Use position 9 Option 6 for shutoff classification. TFE seats 1" - 2" Full Cv only.
5. With Viton O-ring Bearing Seals.
6. Includes Yoke Kit.

# GTW Linear 3-Way Valve Specification Form

 <p style="font-size: small;">A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="color: red; font-weight: bold; font-size: large;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
MFR Serial# _____		

**Fluid**     Steam     Water     Gas \_\_\_\_\_     Liquid \_\_\_\_\_    Crit Pres PC \_\_\_\_\_

<b>Service Conditions</b>	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure
Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____				
Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____				
Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____				
Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____				
Max Press/Temperature: _____ / _____				
Density/MW/SG _____ / _____ / _____				
Viscosity _____ CP				
Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____				
Required C <sub>v</sub> _____    Noise (dBA) Allowable _____				

**Line Info**    Pipe Size In \_\_\_\_\_ /Sch \_\_\_\_\_    Pipe Size Out \_\_\_\_\_ /Sch \_\_\_\_\_

**Valve, Body & Bonnet**

Body Size in.     1/2     3/4     1     1 1/2     2     2 1/2     3     4     6     8     10     12

ANSI Class     125     150     250     300

Body/Bonnet Material:     Cast Iron     Cast Steel     316SS     Other \_\_\_\_\_

End Conn. Inlet/Outlet:     NPT     Int. Flanges     Other \_\_\_\_\_

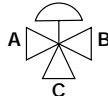
Packing Material:     Teflon Chevron     BTG     Laminated Graphite

**Trim Size**     100%

**Flow Path**

Mixing (Converging) (choose one outlet port)

Diverting (Diverging) (choose two outlet ports)



	A	B	C
Outlet Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Close Port on Air Loss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Actuator**

Spring Action:     Air to Open     Air to Close     Last Position

Available Air Supply Pressure:    Max. \_\_\_\_\_    Min. \_\_\_\_\_

Manual Override:     Yes     No     Type \_\_\_\_\_

**Solenoid**     Yes     No     Type \_\_\_\_\_     Voltage \_\_\_\_\_

**Positioner**     Yes     No     Type \_\_\_\_\_     Pneu     I/P

**Switch**     Yes     No     Type \_\_\_\_\_

**Air Set**     Yes     No     Type: \_\_\_\_\_     Range: \_\_\_\_\_

**Other Accessories**     Yes     No     Type \_\_\_\_\_

**Test**    ANSI/FCI Leakage Class:     IV

# 12 GTW 3-WAY VALVE ACTUATOR SIZING INFORMATION

Based on your valve size and service please complete the appropriate questionnaire section below. We require this information to size the smallest actuator possible for your application. We have requested the data this way because the ports may be at different pressures when one or the other port is closed. It is very important that

you advise the correct outlet pressures so the actuator is not grossly oversized. If the customer does not have any down stream pressure when the valve is closed the actuator will be extremely large as the valve becomes an unbalanced design.

## 1/2" through 2" Diverting Service

Upon air failure close Port A \_\_\_\_\_(direct) or Port B \_\_\_\_\_(reverse)

Valve Size \_\_\_\_\_

Type of packing \_\_\_\_\_

Shutoff Class \_\_\_\_\_

P1C - Inlet valve pressure \_\_\_\_\_

Port A closed

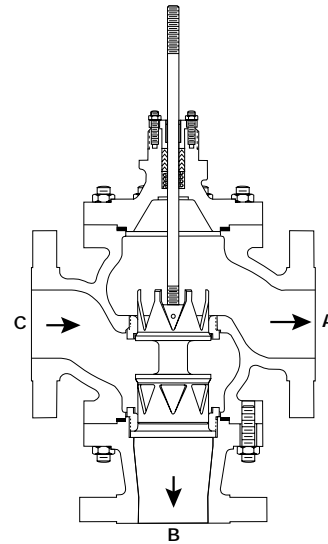
P2A - Outlet valve pressure on Port A \_\_\_\_\_

P2B - Outlet valve pressure on Port B \_\_\_\_\_

Port B closed

P2A - Outlet valve pressure on Port A \_\_\_\_\_

P2B - Outlet valve pressure on Port B \_\_\_\_\_



## 2½" through 12" Diverting Service

Upon air failure close Port A \_\_\_\_\_(direct) or Port B \_\_\_\_\_(reverse)

Valve Size \_\_\_\_\_

Type of packing \_\_\_\_\_

Shutoff Class \_\_\_\_\_

P1C - Inlet valve pressure \_\_\_\_\_

Port A closed

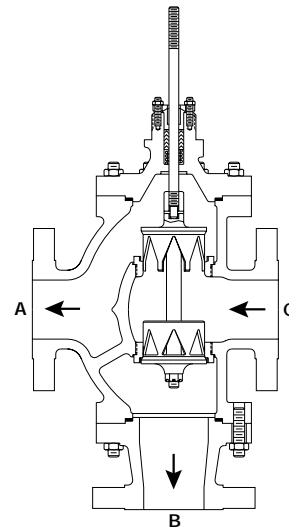
P2A - Outlet valve pressure on Port A \_\_\_\_\_

P2B - Outlet valve pressure on Port B \_\_\_\_\_

Port B closed

P2A - Outlet valve pressure on Port A \_\_\_\_\_

P2B - Outlet valve pressure on Port B \_\_\_\_\_



## 1/2" through 12" Mixing Service

Upon air failure close Port A \_\_\_\_\_(direct) or Port B \_\_\_\_\_(reverse)

Valve Size \_\_\_\_\_

Type of packing \_\_\_\_\_

Shutoff Class \_\_\_\_\_

P2C - Outlet valve pressure \_\_\_\_\_

Port A closed

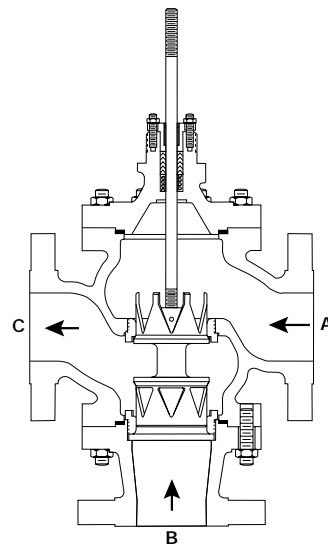
P1A - Inlet valve pressure on Port A \_\_\_\_\_

P1B - Inlet valve pressure on Port B \_\_\_\_\_


Port B closed

P1A - Inlet valve pressure on Port A \_\_\_\_\_

P1B - Inlet valve pressure on Port B \_\_\_\_\_



# DOT 3-Way Valve Specification Form

 <p><b>LESLIE CONTROLS, INC.</b> A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="font-size: 1.2em; font-weight: bold; color: red; text-align: center;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
MFR Serial# _____		

**Fluid**     Steam     Water     Gas \_\_\_\_\_     Liquid \_\_\_\_\_    Crit Pres PC \_\_\_\_\_

Service Conditions	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure
Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____				
Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____				
Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____				
Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____				
Max Press/Temperature: _____ / _____				
Density/MW/SG _____ / _____ / _____				
Viscosity _____ CP				
Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____				
Required C <sub>v</sub> _____    Noise (dBA) Allowable _____				

**Line Info**    Pipe Size In \_\_\_\_\_ /Sch \_\_\_\_\_    Pipe Size Out \_\_\_\_\_ /Sch \_\_\_\_\_

**Valve, Body & Bonnet**

Body Size in.     1     1¼     1½     2     2½     3

ANSI Class     125     150     Other \_\_\_\_\_

Body/Bonnet Material:     Cast Iron     Bronze

End Conn. Inlet/Outlet:     Threaded     Int. Flange     Other \_\_\_\_\_

Packing Material:     Teflon Chevron     \*Special EPDM Seals for 450°F

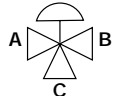
**Trim Size**     100% - Quick Opening

SST     Monel

**Flow Path**

Mixing (Converging) (choose one outlet port)

Diverting (Diverging) (choose two outlet ports)



	A	B	C
Outlet Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Close Port on Air Loss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Actuator**

35     55     85     Converging     Diverting     None

Available Air Supply Pressure:    Max. \_\_\_\_\_    Min. \_\_\_\_\_

Manual Override:     Yes     No     Type \_\_\_\_\_

**Solenoid**     Yes     No     Type \_\_\_\_\_     Voltage \_\_\_\_\_

**Positioner**     Yes     No     Type \_\_\_\_\_     Pneu     I/P

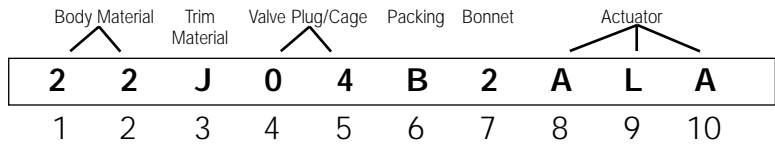
**Switch**     Yes     No     Type \_\_\_\_\_

**Air Set**     Yes     No     Type: \_\_\_\_\_     Range: \_\_\_\_\_

**Other Accessories**     Yes     No     Type \_\_\_\_\_

**Test**    ANSI/FCI Leakage Class:     .1% of capacity (std)

# DOT ORDER CODE



<p><b>Body Material</b> - Position 1 &amp; 2</p> <p>02 = Cast Iron</p> <p>22 = Bronze</p>
<p><b>Trim Material</b> - Position 3</p> <p>A = Stainless Steel, Renewable Seat</p> <p>J = Monel</p>
<p><b>Valve Plug/Cage</b> - Position 4 &amp; 5</p> <p>04 = Quick Opening - Q.O.</p>
<p><b>Packing</b> - Position 6</p> <p>B = Teflon Chevron</p>

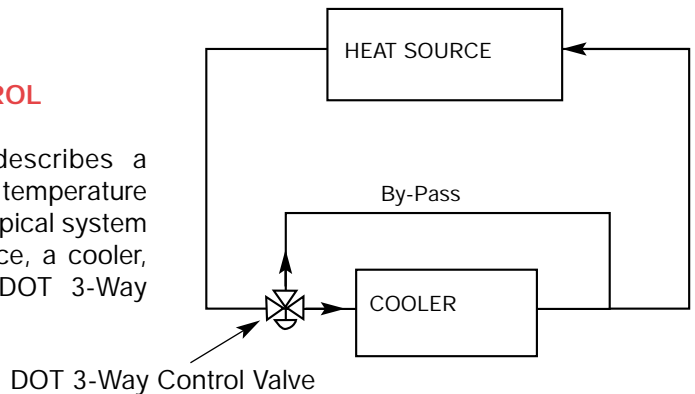
<p><b>Bonnet</b> - Position 7</p> <p>2 = Regular (up to 450°F)</p>
<p><b>Actuator</b> - Position 8, 9 &amp; 10</p> <p>U = 35 Iron</p> <p>Y = 35R Iron</p> <p>AL = 55 Iron</p> <p>ALA = 55A Iron</p> <p>GLA = 55AR Iron</p> <p>GL = 55R Iron</p> <p>BL = 85 Iron</p> <p>HL = 85R Iron</p>

## VALVE AVAILABILITY CHART

Body Material	ANSI Class	Size		Actuator Standard	Threaded Ends	Flanged Ends	
		Inches	mm			ANSI	DIN
CAST IRON	125	1	25	35(R)	X	Class 125 All Sizes	ND-10 ND-16 All Sizes
		1¼	32	35(R)	X		
		1½	40	35(R)	X		
		2	50	35(R)	X		
		2½	65	55A(R)	—		
3	80	55A(R)	—				
BRONZE	150	1	25	35(R)	—	Class 150 All Sizes	ND-10 ND-16 All Sizes
		1¼	32	35(R)	—		
		1½	40	35(R)	—		
		2	50	35(R)	—		
		2½	65	55A(R)	—		
3	80	55A(R)	—				

### BY-PASS TEMPERATURE CONTROL

By-pass temperature control describes a simple method for controlling the temperature of one fluid with another fluid. A typical system consists basically of a heat source, a cooler, connecting fluid direction: the DOT 3-Way Control Valve.



# RVK 3-Way Valve Specification Form

 <p style="font-size: small;">A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="text-align: center; font-weight: bold; color: red; font-size: 1.2em;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
MFR Serial# _____		

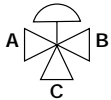
<b>Fluid</b> <input type="checkbox"/> Steam <input type="checkbox"/> Water <input type="checkbox"/> Gas _____ <input type="checkbox"/> Liquid _____	Crit Pres PC _____
-----------------------------------------------------------------------------------------------------------------------------------------------------	--------------------

<b>Service Conditions</b>  Flow <input type="checkbox"/> #/hr <input type="checkbox"/> gpm <input type="checkbox"/> scfh <input type="checkbox"/> _____ Inlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Outlet Pressure <input type="checkbox"/> psig <input type="checkbox"/> psia <input type="checkbox"/> _____ Temperature <input type="checkbox"/> °C <input type="checkbox"/> °F    _____ Max Press/Temperature: _____ / _____ Density/MW/SG _____ / _____ / _____ Viscosity _____ CP Vapor Pressure <input type="checkbox"/> psia <input type="checkbox"/> _____ Required C <sub>v</sub> _____    Noise (dBA) Allowable _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Max. Flow</th> <th style="width: 25%;">Norm. Flow</th> <th style="width: 25%;">Min. Flow</th> <th style="width: 25%;">Shut-off Pressure</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure																																
Max. Flow	Norm. Flow	Min. Flow	Shut-off Pressure																																		

<b>Line Info</b> Pipe Size In _____ /Sch _____    Pipe Size Out _____ /Sch _____
----------------------------------------------------------------------------------

<b>Valve, Body &amp; Bonnet</b>  Body Size in. <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 10 <input type="checkbox"/> 12 <input type="checkbox"/> 16 ANSI Class <input type="checkbox"/> 125 <input type="checkbox"/> 150 <input type="checkbox"/> ND <input type="checkbox"/> Other _____ Body/Bonnet Material: <input type="checkbox"/> Cast Iron <input type="checkbox"/> Bronze <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Other _____ End Conn. Inlet/Outlet: <input type="checkbox"/> Int. Flange <input type="checkbox"/> Other _____ Packing Material: <input type="checkbox"/> O-Ring Buna-N <input type="checkbox"/> Other _____
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Trim Size</b> <input type="checkbox"/> 100% <input type="checkbox"/> Reduced (Rotary 3-Way only)
-----------------------------------------------------------------------------------------------------

<b>Flow Path</b> <input type="checkbox"/> Mixing (Converging) (choose one outlet port) <input type="checkbox"/> Diverting (Diverging) (choose two outlet ports)		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">A</th> <th style="width: 10%;">B</th> <th style="width: 10%;">C</th> </tr> </thead> <tbody> <tr> <td>Outlet Port</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Close Port on Air Loss</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>		A	B	C	Outlet Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Close Port on Air Loss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	A	B	C											
Outlet Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
Close Port on Air Loss	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											

<b>Actuator</b> <input type="checkbox"/> 55 <input type="checkbox"/> 85 <input type="checkbox"/> Converging <input type="checkbox"/> Diverging <input type="checkbox"/> None Available Air Supply Pressure:    Max. _____    Min. _____ Manual Override: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Solenoid</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Voltage _____
-----------------------------------------------------------------------------------------------------------------------------------------------------

<b>Positioner</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____ <input type="checkbox"/> Pneu <input type="checkbox"/> I/P
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------

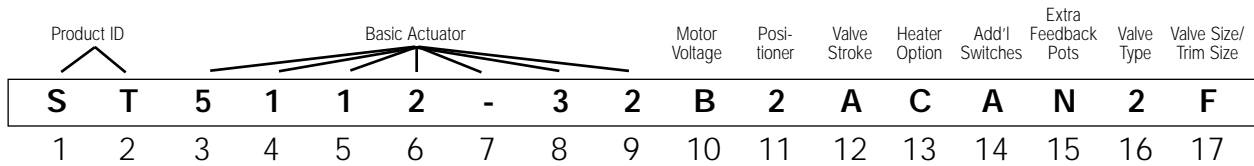
<b>Switch</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____
------------------------------------------------------------------------------------------------------------

<b>Air Set</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type: _____ <input type="checkbox"/> Range: _____
----------------------------------------------------------------------------------------------------------------------------------------------------

<b>Other Accessories</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Type _____
-----------------------------------------------------------------------------------------------------------------------

<b>Test</b> ANSI/FCI Leakage Class: <input type="checkbox"/> 1.5% of Capacity for Diverging <input type="checkbox"/> 1.8% of Capacity for Converging
------------------------------------------------------------------------------------------------------------------------------------------------------

# DIGI ACTUATOR ORDER CODE



<b>Product ID</b> - Position 1 & 2 ST = Digi Actuator
<b>Basic Actuator</b> - Position 3-9 5112-32 = 100 Sec/in 1 Phaze 24V, 115V (120V), 230V 50/60 Hz AC, 24V DC
5112-33 = 50 Sec/in 1 Phaze 24V, 115V (120V), 230V 50/60 Hz AC, 24V DC
5112-34 = 25 Sec/in 1 Phaze 24V, 115V (120V), 230V 50/60 Hz AC, 24V DC
5113-06 = 15 Sec/in 3 Phaze 400V, 50/60 Hz AC
5113-07 = 15 Sec/in 1 Phaze 115 & 230V, 50/60 Hz AC
5113-14 = 29 Sec/in 3 Phaze 400V, 50/60 Hz AC
5113-34 = 58 Sec/in 3 Phaze 400V, 50/60 Hz AC
5113-51 = 181 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC, 24V DC
5113-15 = 29 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC, 24V DC
5113-35 = 58 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC, 24V DC

5113-53 = 97 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC, 24V DC
5114-17 = 29 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC
5114-36 = 58 Sec/in 3 Phaze 400V, 50/60 Hz AC
5114-54 = 97 Sec/in 3 Phaze 400V, 50/60 Hz AC
5114-37 = 58 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC, 24V DC
5114-55 = 97 Sec/in 1 Phaze 24V, 115V, 230V, 50/60 Hz AC, 24V DC
5114-06 = 15.38 Sec/in 3 Phaze 400V, 50/60 Hz AC
XXXX-XX = Other
<b>Motor Voltage</b> - Position 10 A = 24 VDC B = 115 VAC C = 230 VAC E = 24 VAC F = 400 VAC X = Other
<b>Positioner</b> - Position 11 N = None 1 = RE3446 (4-20mA) Analog type 2 = RE3446 (0-10 VDC) Analog type X = Other


<b>Valve Stroke</b> - Position 12 A = .75" to 1" B = 1.25" C = 1.5" D = 2" to 3" X = Other
<b>Heater Option</b> - Position 13 N = None A = 24 VDC (E68717) B = 115 VAC (E68718) C = 230 VAC (E68719) X = Other
<b>Add'l Switches</b> <sup>1</sup> - Position 14 N = None A = 250 Volt 10 Amp (Qty 2) (E68720) X = Other
<b>Extra Feedback Pots</b> - Position 15 N = None 1 = 1000 Ohm X = Other
<b>Valve Type</b> - Position 16 N = None 1 = DLO 2 = DBOY 3 = GTW X = Other
<b>Valve Size (DBOY)</b> <b>Valve Trim (DLO)</b> - Position 17 N = None A = .5" B = .75" C = 1" D = 1.5" E = 2" F = 2.5" G = 3" H = 4" J = 6" K = 8" X = Other

1. One set included with actuator.



# 2500 SERIES Valve Specification Form

Laurence Products, Electric On / Off

 <p style="font-size: small;">A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="color: red; font-weight: bold; font-size: large;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
	MFR Serial# _____	

I have (or anticipate) a requirement for an electrically actuated valve as follows:

Quantity \_\_\_\_\_ Pipe Size \_\_\_\_\_

- 2-way
    - Fully Electrical
      - Energize to Open (Normally Closed)
      - Energize to close (Normally Open)
    - Manually Reset
      - Latch to Open (Normally Closed)
      - Latch to Close (Normally Open)
- Trip on Current Failure     Free Handle     Trip on Energization

- 3-way
  - Fully Electrical
  - Manually Reset
    - Trip on Current Failure     Free Handle
    - Trip on Energization
  - Pilot Control
    - Supply Normally Closed (when de-energized or unlatched)
    - Supply Normally Open
  - Directional
    - Diverting - 1 inlet, 2 outlets
    - Selecting - 2 inlets, 1 outlet

**See  
Flow Forms  
On Back**

- 4-way
  - Fully Electrical
  - Manually Reset
    - Trip on Current Failure     Free Handle
    - Trip on Energization

Summary of Application \_\_\_\_\_

Fluid Handled \_\_\_\_\_ Viscosity \_\_\_\_\_ @ \_\_\_\_\_ Clean? \_\_\_\_\_ Conc. \_\_\_\_\_ Spec. Grav. \_\_\_\_\_

Max Opening Differential Pressure \_\_\_\_\_ Fluid Temp \_\_\_\_\_ Ambient Temp \_\_\_\_\_

Flow Rate \_\_\_\_\_ Max Allowable Pressure Drop \_\_\_\_\_ Req'd C<sub>v</sub> \_\_\_\_\_

Body Mat'l \_\_\_\_\_ Inner Parts \_\_\_\_\_ Valve Disc \_\_\_\_\_

Screwed Ends     Flanged 150     Flanged 300     Socketweld     Buttweld     Other \_\_\_\_\_

Horizontal Pipe Mounting     Vertical Pipe Mounting-     Up Flow     Down Flow

Actuator Enclosure:  NEMA4 Watertight/Dusttight     Explosion Proof Class I,

Group \_\_\_\_\_ Div \_\_\_\_\_

Other \_\_\_\_\_

AC     DC    Volts \_\_\_\_\_ Hz \_\_\_\_\_ Duty \_\_\_\_\_ Frequency of Operation \_\_\_\_\_

Coil Insulation     Class H (std)     Other \_\_\_\_\_     Position Switch(es) \_\_\_\_\_

Other Options \_\_\_\_\_

Other Description \_\_\_\_\_

Please send  \_\_\_\_\_ copies of dimension drawing     \_\_\_\_\_ copies of Laurence On-Off Valves Handbook.

# ELECTRIC ON-OFF SERIES VALVES

## 3-WAY FLOW FORMS

Each 3-way valve is factory adjusted for one of the following Flow Forms:

### For Pilot Control:

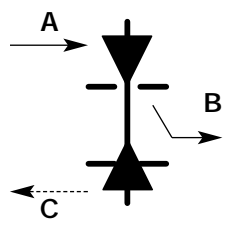
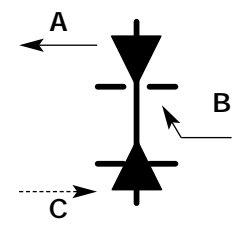
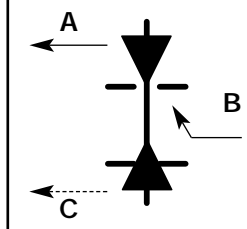
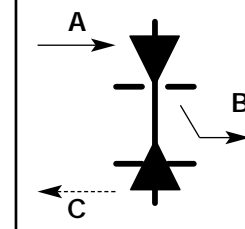
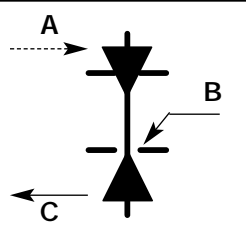
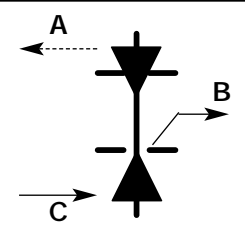
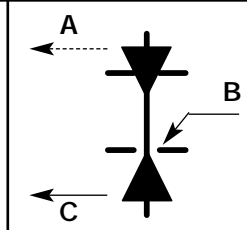
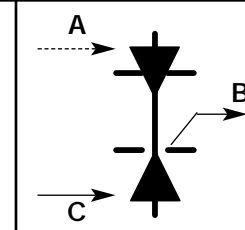
**Form M** - Supply normally closed  
Energize to open inlet port.  
De-energize to vent.

**Form N** - Supply normally open  
Energize to vent.  
De-energize to open inlet port.

### For Directional Control:


**Form O** - Diverting (one inlet, two outlets)  
Energize to open normally closed outlet & close normally open outlet.  
De-energize to reverse above action (return to normal position).

**Form P** - Selecting (two inlets, one outlet)  
Energize to open normally closed inlet & close normally open inlet.  
De-energize to reverse above action (return to normal position).

	<b>FLOW FORM M</b> INLET AT A OUTLET AT B VENT AT C	<b>FLOW FORM N</b> INLET AT C OUTLET AT B VENT AT A	<b>FLOW FORM O</b> INLET AT B OUTLETS AT A & C	<b>FLOW FORM P</b> INLETS AT A & C OUTLETS AT A & C
<b>ACTUATED POSITION</b> (SOLENOID ENERGIZED)				
<b>NORMAL POSITION</b> (SOLENOID DE-ENERGIZED)				

# 2800 Series Fire-Cide® Valve Specification Form

Laurence Product, Fusible Link

 <p><b>LESLIE CONTROLS, INC.</b> A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p><b>CONTROL VALVE SPEC SHEET</b></p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
	MFR Serial# _____	

I have (or anticipate) a requirement for a Fire Safety Shut Off valve as follows:

Quantity \_\_\_\_\_ Pipe Size \_\_\_\_\_  FM Approved

2-way  Fail Closed  
 Fail Open

Summary of Application \_\_\_\_\_

Fluid Handled \_\_\_\_\_ Spec. Grav. \_\_\_\_\_

Viscosity \_\_\_\_\_ Concentration \_\_\_\_\_ Free of Solids? \_\_\_\_\_

Max Inlet Pressure \_\_\_\_\_ Min/Max Fluid Temp \_\_\_\_\_

Flow Rate \_\_\_\_\_ Max Allowable Pressure Drop \_\_\_\_\_

Temperature Rating of Fusible Link Desired \_\_\_\_\_

Body Mat'l \_\_\_\_\_ Inner Parts \_\_\_\_\_ Valve Disc \_\_\_\_\_

Screwed Ends  Flanged 150  Flanged 300  Other \_\_\_\_\_

Horizontal Pipe Mounting  Vertical Pipe Mounting-  Up Flow  Down Flow

Position Switch to Indicate-  Valve Open  Valve Closed  SPDT  DPDT


Other Description \_\_\_\_\_

Please send \_\_\_\_\_ copies of an applicable dimension drawing.

Please send \_\_\_\_\_ additional copies of Laurence On-Off Valves Handbook.

# ELECTRIC ON/OFF ACTUATORS Specification Form

From R.G. Laurence Product Line

 <p><b>LESLIE CONTROLS, INC.</b> <small>A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</small></p> <p style="color: red; font-weight: bold; text-align: center;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____ Unit/Customer _____ P.O./LCO File # _____ Item _____ Contract _____ MFR Serial# _____	Data Sheet _____ of _____ Spec _____ Tag _____ Dwg _____ Service _____
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------

I have (or anticipate) a requirement for an actuator as follows:

Quantity \_\_\_\_\_  A.C.  D.C. Voltage \_\_\_\_\_ Hertz \_\_\_\_\_

Summary of Application \_\_\_\_\_  
 \_\_\_\_\_

Actuator Enclosure:  NEMA4 Watertight/Dusttight  Explosion Proof Class I, Group \_\_\_\_\_ Div \_\_\_\_\_  
 Other \_\_\_\_\_

Solenoid: Your net pull or push force (load) in lbs. \_\_\_\_\_ Plunger travel (stroke) required in inches \_\_\_\_\_  
 PLEASE SUBMIT DESCRIPTION OR GRAPH OF LOAD VS. STROKE

Solenoid Actuator to be mounted with axis:  Horizontal  Vertical  
 Pulling Up  Pulling Down  Pushing Up  Pushing Down

Will you provide a spring return for the Solenoid Actuator? \_\_\_\_\_  
 IF SO, SUBMIT DESCRIPTION OR GRAPH OF SPRING TENSION (OR COMPRESSION) VS. STROKE

Type of plunger connection  Clevis w/Hole  Threaded Rod  Threaded Hole  \_\_\_\_\_

Electromagnetic: Your net holding force (load) in lbs. \_\_\_\_\_  
 Pole piece design, if other than standard \_\_\_\_\_

Maximum Period of Energization \_\_\_\_\_ Frequency of Operation \_\_\_\_\_

Ambient Temperature Range \_\_\_\_\_ Indoors/Outdoors \_\_\_\_\_

Coil insulation  Class H (std)  Molded  Other \_\_\_\_\_

Special Electrical Characteristics \_\_\_\_\_

Mounting description or provisions required \_\_\_\_\_

Are there any weight, dimensional or shape limitations? \_\_\_\_\_


Coil to have  Lead Wires (std)  Terminal Block  Other \_\_\_\_\_

Conduit connection  1/2" NPT (std)  3/4" NPT  Other \_\_\_\_\_

Other Description \_\_\_\_\_


Please send  \_\_\_\_\_ copies of dimension drawing  \_\_\_\_\_ copies of Laurence On-Off Valves Handbook.

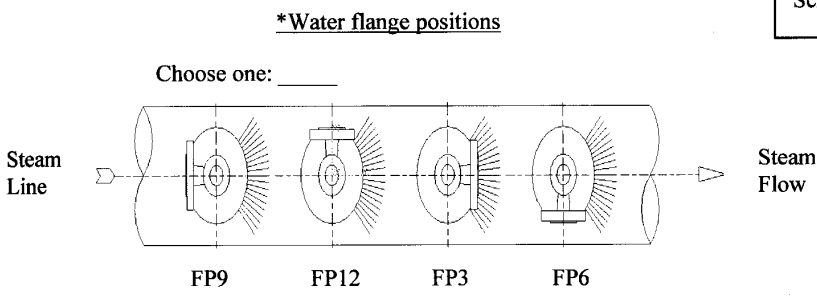
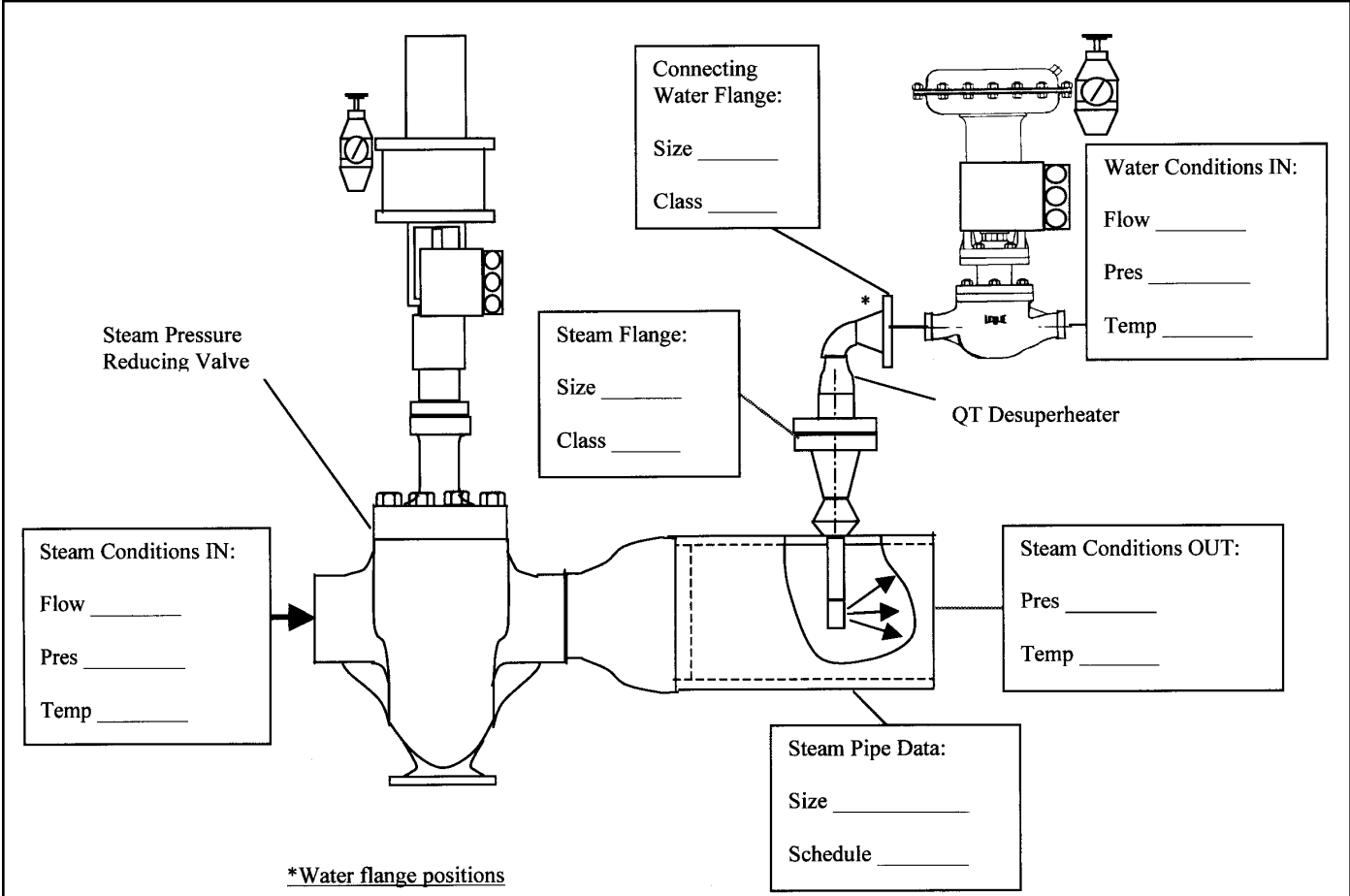
Specification Form for Measurement and Control Instruments, Primary Elements and Control Valves

 A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984		CUSTOMER				DATA SHEET			
		PROJECT				SPEC			
		SITE/UNIT				TAG			
		QUOTE/P.O.				DWG			
		ITEM				SERVICE			
		CONTRACT							
1	Fluid		Units	Cond 1	Cond 2	Cond 3	Cond 4	Crit Press Pc	Shut-Off
2	SERVICE CONDITIONS	Flow Rate							---
3		Inlet Pressure							
4		Outlet Pressure							
5		Inlet Temperature							
6		Spec Wt / Spec Grav / Mol Wt							
7		Viscosity / Spec Heats Ratio							
8		Vapor Pressure Pv							
9		Required Cv							
10		% Travel							
11		Allowable / Predicted SPL	dBA						
12		SPL After Noise Attenuation	dBA						
13		LINE	Pipe Line Size	In					53
14	& Schedule		Out					54	Mfr. & Model
15	Pipe Line Insulation							55	Size
16	VALVE BODY / BONNET	Type						56	On/Off
17		Size						57	Spring Action on Open/Close
18		Max Press/Temp						58	Max Allowable Pressure
19		Mfr. & Model						59	Min Required Pressure
20		Body/Bonnet Matl						60	Available Air Supply Pressure:
21		Liner Material/ID						61	Max Min
22		End In						62	Spring - Bench Range
23		Connection Out						63	Actuator Orientation
24		Flg Face Finish						64	Handwheel Type
25		End Ext/Matl						65	Air Failure Valve
26		Flow Direction						66	Solenoid Qty
27		Type of Bonnet						67	Input Signal
28		Lube & Iso Valve	Lube					68	Type
29		Packing Material						69	Mfr. & Model
30		Packing Type						70	On Incr Signal Output Incr/Decr
31							71	Gauges Bypass	
32	TRIM	Type						72	Cam Characteristic
33		Size		Rated Travel				73	
34		Characteristic						74	Type Quantity
35		Balanced/Unbalanced						75	Mfr. & Model
36		Rated Cv	Fl	Xt				76	Contacts/Rating
37		Plug/Ball/Disk Material						77	Actuation Points
38		Seat Material						78	
39		Cage/Guide Material						79	Mfr. & Model
40	Stem Material						80	Set Pressure	
41							81	Filter Gauge	
42							82		
43	SPECIALS/ACCESSORIES	NEC Class	Group	Div				83	
44								84	Hydro Pressure
45								85	ANSI/FCI Leakage Class
46								86	Calculated Stem Thrust
47									Rev Date Revision Orig App
48									
49									
50									
51									
52									

# LESLIE MODEL QT

## Steam Conditioning System Specification Form

 <p style="font-size: small;">A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="font-size: large; font-weight: bold; color: red;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
MFR Serial# _____		



*Note: Spraywater must be injected in the direction of the steam flow. Select appropriate spray head position.*


**Distance to Sensor:** distance from injection point to temp sensor should be 40-50 ft. Systems operating at pressures above 362psi can have significantly less run to the sensor (consult factory).

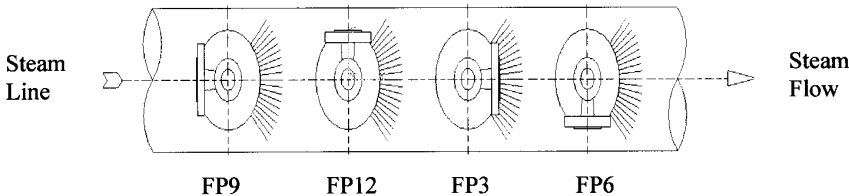
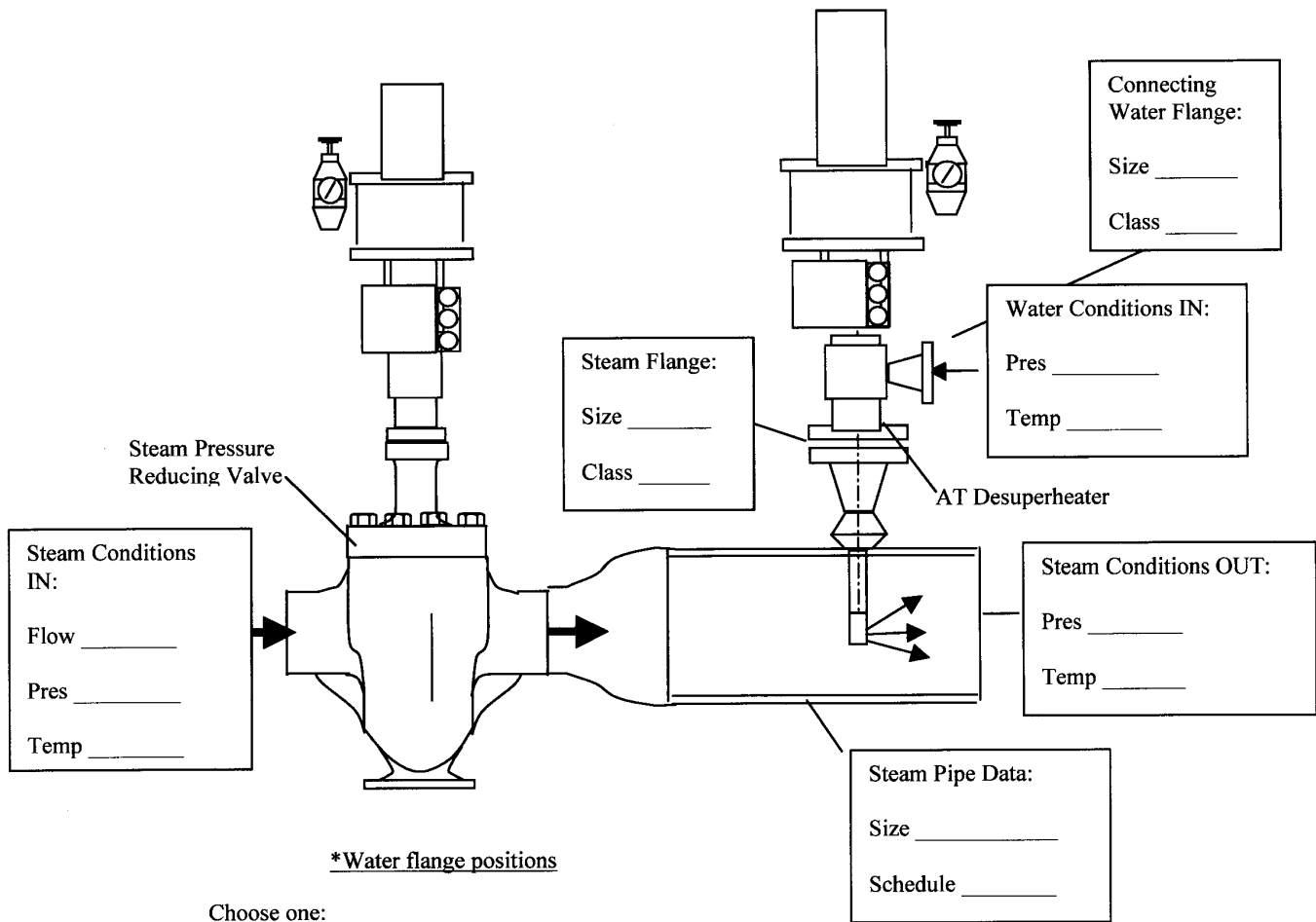
**Required Straight Pipe Run:** distance from injection point to first pipe bend is also a function of steam pressure, temp and nozzle size. Based on experience systems up to 362psi, 13-20ft, is an acceptable distance.

**Turndown ratio:** normally 4:1 on the water flow control. Ratio is determined by dividing "steam flow max" x "steam flow min".

# LESLIE MODEL AT

## Steam Conditioning System Specification Form

 <p><b>LESLIE CONTROLS, INC.</b> A division of CIRCOR International, Inc. 12501 Telecom Drive · Tampa, Florida 33637 (813) 978-1000 · FAX: (813)-978-0984</p> <p style="color: red; font-weight: bold; font-size: 1.2em;">CONTROL VALVE SPEC SHEET</p>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
MFR Serial# _____		



*Note: Spraywater must be injected in the direction of the steam flow. Select appropriate spray head flange position.*

Use on medium/low pressure steam applications. There is no water control valve. The AT desuperheater valve regulates the amount of injection water by varying the number of injection nozzles. This enables the water pressure to remain constant, independent of the number of injection nozzles in operation.


**Distance to Sensor:** distance from injection point to temp sensor should be 40-50 ft. Systems operating at pressures above 362psi can have significantly less run to the sensor (consult factory).

**Required Straight Pipe Run:** distance from injection point to first pipe bend is also a function of steam pressure, temp and nozzle size. Based on experience systems up to 362psi, 13-20ft, is an acceptable distance.

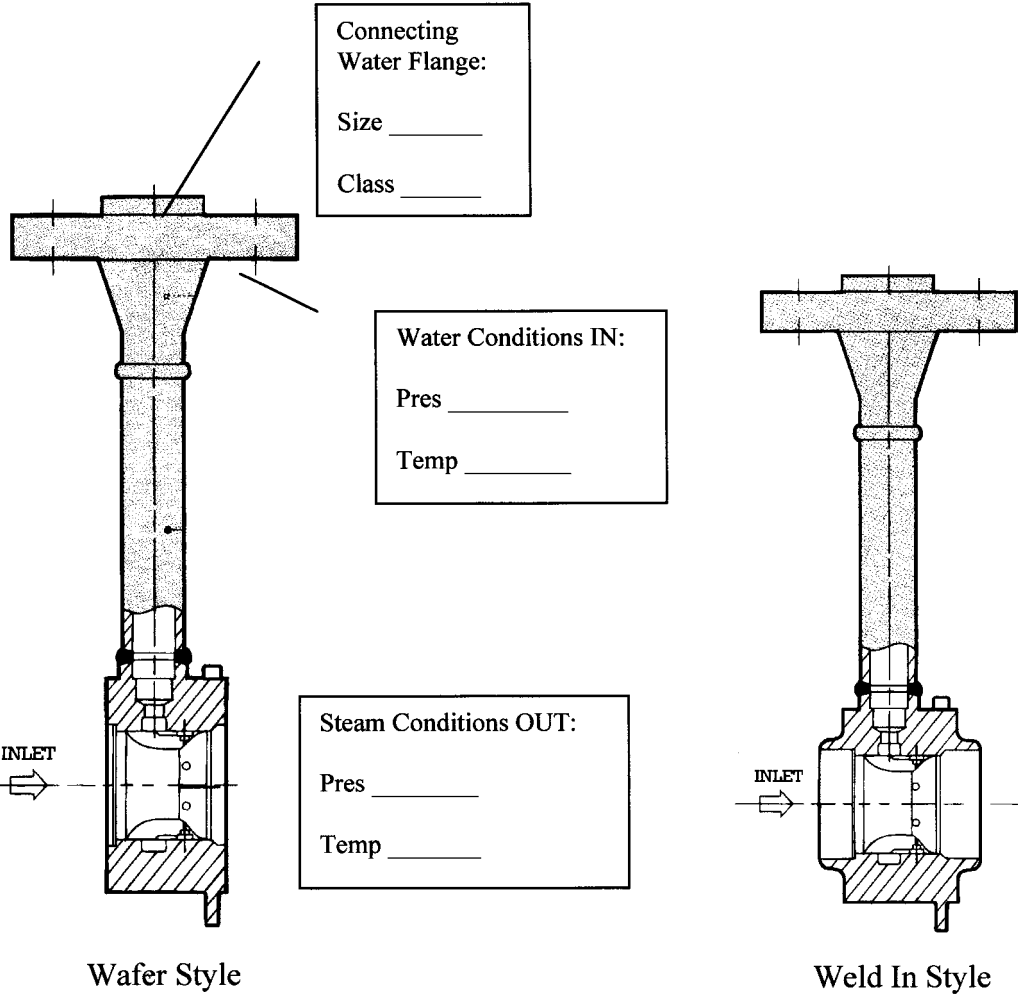
**Turndown ratio:** normally 18:1 and 27:1. Ration is determined by dividing "steam flow max" x "steam flow min".

# LESLIE MODEL SPID

## Desuperheater Specification Form

 <b>LESLIE CONTROLS, INC.</b> <small>A division of CIRCOR International, Inc.                  12501 Telecom Drive · Tampa, Florida 33637                  (813) 978-1000 · FAX: (813)-978-0984</small>	Project/Job _____	Data Sheet _____ of _____
	Unit/Customer _____	Spec _____
	P.O./LCO File # _____	Tag _____
	Item _____	Dwg _____
	Contract _____	Service _____
	MFR Serial# _____	

### CONTROL VALVE SPEC SHEET



For use in small steam lines with minimal steam pressure losses. Steam control within 43°F of saturation temp and +/- 1% of controller range. Water flange connection available 1/2" - 1" size. Steam connection available in wafer or butt weld in 1 1/2" - 4" size.

*Distance to Sensor:* distance from injection point to temp sensor should be 40-50 ft. Systems operating at pressures above 362psi can have significantly less run to the sensor (consult factory).  
*Required Straight Pipe Run:* upstream straight pipe run is normally 6xD and the downstream straight pipe run 20xD, as a minimum. For other distance applications consult factory.  
*Turndown ratio:* normally 1:40. Ratio is determined by dividing "steam flow max" x "steam flow min".