

# ISA S20 Specification Forms integration with SPI



Gerald Barta, ISA

# ISA S20 Specification Forms integration with SPI

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- All 88 (SPI compatible) ISA forms are upgraded to SPI color scheme and include similar integrated dropdown list (upgraded to 2015 technology)
- 80+ additional new ISA specifications forms are being approved
  - 21 psr files donated to LTUF 12/2010
  - 19 draft psr files donated LTUF 2/2012
- New work Processes
  - Recommended use of new Line data specification form
  - Copy data between line form and any other specification form
  - Copy data between any forms (change form number functionality)
- XML objects allow data export to Access or Excel or XML schema mapping
- Tutorial for work process and technical usage of each field is being planned

# ISA S20 Specification Forms integration with SPI

## ISA S20 Specification Forms

### Annex A (Informative) -- Specification Forms Tables of Contents

**TABLE 1 - Operating parameter device categories and form titles**

Form Number	Form Title	Development Status, ISA-SP20	Rev
20A1001	Analysis Device	Updated	1
20A1002	Analysis Device with Composition or Property	Updated	1
20C1001	Valve or Regulator Device	Updated	1
20C1002	Isolation Valve or Shutoff Device	New-Updated	0
20C1003	Multistream Control Valve Device	New-Updated	0
20F1001	Flow Device	Updated	1
20F1002	Gas Flow Device with Composition Parameters	New-Updated	0
20F1003	Bulk Solids Flow Device	New-Updated	0
20F1101	Line	New-Updated	0
20L1001	Level Device	Updated	1
20P1001	Differential Pressure Device	Updated	2
20P1002	Pressure Safety Device	Updated	1
20P1003	Pressure Device	Updated	1
20P1004	Tank Venting Device	New-Updated	0
20T1001	Temperature Device	Updated	1
20U1001	Basic Engineering Design Data		
20W1001	Weight or Force Device	Updated	1

**TABLE 2 - Device specification categories and form titles**

Form Number	Form Title	Development Status, ISA-SP20	Rev
<b>Analysis Devices</b>			
20A2111	Fixed Point Gas Transmitter Monitor/Control Unit	New-Updated	0
20A2131	Open Path Gas Detector	New-Updated	0
20A2141	Semi-continuous Analyzer	New-Updated	0
20A2151	Insitu Gas Analyzer	New-Updated	0

20A2161	Continuous Extractive Gas Analyzer	New-Updated	0
20A2171	Opacity or Dust Monitor w/wo Integral Transmitter	New-Updated	0
20A2172	Opacity or Dust Interface Unit	New-Updated	0
20A2191	Dissolved Gas Sensor w/wo Mounting Assembly	New-Updated	0
20A2192	Dissolved Gas Transmitter/Analyzer/Monitor	Updated	1
20A2301	Ion Selective Sensor w/wo Insertion Assembly	New-Updated	0
20A2311	Liquid Density or Specific Gravity Transmitter	New-Updated	0
20A2321	Nuclear Type Density Transmitter w/wo Switches	New-Updated	0
20A2331	Continuous Extractive Oil in Water Monitor w/wo Switches	New-Updated	0
20A2332	Insitu Oil in Water Sensor w/wo Insertion Assembly	New-Updated	0
20A2333	Oil in Water Monitor/Controller w/wo Switches	New-Updated	0
20A2341	pH/ORP Sensor w/wo Insertion Assembly	Updated	1
20A2342	pH/ORP/Conductivity/Resistivity Transmitter/Analyzer/Monitor	Updated	1
20A2351	Turbidity or Photometric Sensor w/wo Transmitter	Updated	1
20A2352	Turbidity or Photometric Transmitter or Controller	Updated	1
20A2361	Viscosity and Density Sensor w/wo Integral Transmitter	New-Updated	0
20A2362	Viscosity and Density Transmitter	In process	
	Gas Density w/wo Integral Transmitter		
20A2371	Moisture Analyzer	In process	
20A2373	Humidity/Dewpoint Transmitter w/wo Switches	Updated	1
20A2381	Conductivity Sensor w/wo Insertion Assembly	Updated	1
20A2391	Entrained/Holdup Gas Monitor	Updated	1
20A2901	Sample Conditioning System w/wo Switches and Valves	In process	
20A2902	Sample Probe or Extractor	New-Updated	0
20A2910	Analyzer Controller	New-Updated	0
<b>Burner or Combustion Devices</b>			
20B2001	Flame Scanner w/wo Flame Relay or Amplifier	New-Updated	0
20B2002	Optical Flame Detector w/wo Video Camera	New-Updated	0
20B2101	Flame Monitor		
<b>Valve or Regulator Devices</b>			
20C2001	Linear Motion Type Control Valve Assembly	Updated	1
20C2002	Linear Motion Type Control Valve Assembly with Auxiliaries	Updated	1
20C2011	Rotary Motion Type Control Valve Assembly	Updated	1

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## ISA S20 Specification Forms

20C2012	Rotary Motion Type Control Valve Assembly with Auxiliaries	Updated	1
20C2021	Severe Service Isolation Valve Assembly	New-Updated	0
20C2022	Severe Service Control Valve Assembly	New-Updated	0
20C2023	Cryogenic Service Isolation Valve Assembly with Auxiliaries	New-Updated	0
20C2024	Cryogenic Service Control Valve Assembly	New-Updated	0
20C2031	Desuperheater Device/Control Valve Assembly	New-Updated	0
20C2041	Linear Motion Type Motor Operated Valve Assembly	Updated	1
20C2042	Rotary Motion Type Motor Operated Valve Assembly	Updated	1
20C2043	Electric Actuator and Auxiliaries	Updated	1
20C2051	Linear Motion Type Isolation Valve Assembly	New-Updated	0
20C2052	Rotary Motion Type Isolation Valve Assembly	New-Updated	0
20C2061	Linear Motion Type Emergency Valve Assembly	New-Updated	0
20C2062	Rotary Motion Type Emergency Valve Assembly	New-Updated	0
20C2101	Automatic Recirculation Valve w/wo Back Pressure Regulator	New-Updated	0
20C2111	Pressure Regulator w/wo Pilot Valve	Updated	1
20C2131	Self-Acting Temperature Regulator Valve	New-Updated	0
20C2141	Air-Release or Air/Vacuum and Combination Air Valves	Updated	1
20C2211	Solenoid Valve or Manifold Assembly	New-Updated	0
<b>Flow Devices</b>			
20F2001	Air Flow Traverse Probe w/wo Flow Straightener	New-Updated	0
20F2011	Elbow Flow Meter	Updated	1
20F2021	Flow Nozzle w/wo Meter Tube	Updated	1
20F2031	Orifice Plate	Updated	1
20F2041	Orifice Plate Assembly w/wo Meter Tube	Updated	1
20F2051	Multivariable Flow Transmitter	Updated	1
20F2061	Paddle Flow Switch or Transmitter	Updated	1
20F2071	Pitot Tube w/wo Insertion Assembly	Updated	1
20F2081	Segmental Wedge Flow Element	Updated	1
20F2091	Target Flowmeter/Switch w/wo Insertion Assembly	New-Updated	0
20F2101	V-Shaped Cone Flowmeter	Updated	1
20F2111	Venturi or Flow Tube w/wo Meter Tube	Updated	1
20F2211	Flume Flowmeter	New-Updated	0
20F2231	Rotameter/Variable Area Flowmeter-Direct Reading Type	New-Updated	0

20F2251	Variable Area Flowmeter or Transmitter w/wo Switches	New-Updated	0
20F2261	Weir Flowmeter Assembly	New-Updated	0
20F2301	Coriolis Mass Bulk Solids Flowmeter		
20F2311	Free-Falling or Conveyed Bulk Solids Flowmeter	New-Updated	0
20F2312	Belt Scale System	New-Updated	0
20F2313	Impact or Solid-Particle Mass Flowmeter	New-Updated	0
20F2314	Microwave Solid Mass Flow Transmitter		
20F2315	Microwave Solid Mass Flow Switch		
20F2321	Magnetic Flowmeter w/wo Integral Totalizer Indicator	Updated	1
20F2331	Radiation-Based Bulk Solids Flowmeter	New-Updated	0
20F2341	Ultrasonic Flowmeter w/wo Switches	Updated	1
20F2342	Ultrasonic Flare Gas Sensor w/wo Insertion Assembly	New-Updated	0
20F2351	Thermal Mass Flowmeter w/wo Switches	Updated	1
20F2361	Thermal Mass Flow Switch	Updated	1
20F2371	Turbine Flowmeter Direct-Reading Type	New-Updated	0
20F2372	Turbine Flowmeter w/wo Switches	New-Updated	0
20F2381	Vortex or Swirl Flowmeter w/wo Totalizer Indicator	Updated	1
20F2391	Sonar Flowmeter w/wo Entrained Gas Monitor	Updated	1
20F2411	Positive Displacement Flowmeter Direct-Reading Type	Updated	1
20F2421	Positive Displacement Flow Transmitter w/wo Switches	Updated	1
20F2511	Multi-Gas Flowmeter w/wo Controller	New-Updated	0
20F2521	Coriolis Mass Flowmeter w/wo Totalizer Indicator	Updated	1
20F2611	Sight Flow Indicator w/wo Illuminator	Updated	1
20F2711	Meter Tube w/wo Flow Straightener	New-Updated	0
20F2910	Flow Computer or Totalizer or Transmitter	New-Updated	0
<b>Hand Control Devices</b>			
20H2001	Instrument Valve		
20H2011	Instrument Manifold Valve		
20H2031	Manual Pull Station	New-Updated	0
<b>Level Devices</b>			
20L2101	Capacitance or RF Admittance Level Transmitter w/wo Switches	Updated	1
20L2111	Diff Pressure Level Transmitter Flange Mounted	Updated	1
20L2113	Diff Pressure Level Transmitter with Seals	New-Updated	0
20L2114	Submersible Level Transmitter w/wo Data Logger	New-Updated	0



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20L2121	Displacer-Type Level Transmitter or Controller	Updated	1
20L2131	Tank Level Gauge or Transmitter w/wo Switches	New-Updated	0
20L2141	Nuclear Radiation Level Transmitter w/wo Switches	Updated	1
20L2151	Resistance-Tape Level Transmitter w/wo Switches	Updated	1
20L2161	Non-contact Radar Level Transmitter w/wo Switches	New-Updated	0
20L2162	Guided Wave Radar Level or Interface Transmitter	New-Updated	0
20L2171	Non-contact Ultrasonic Level Transmitter w/wo Switches	Updated	1
20L2181	Magnetostrictive Level Transmitter w/wo Switches	New-Updated	0
20L2191	Laser Level Transmitter w/wo Switches	New-Updated	0
20L2201	Non-contact Volumetric Level Scanner w/wo Visualization	New-Updated	0
20L2301	Capacitance or RF Admittance Level Switch	Updated	1
20L2311	Float or Displacer Level Switch	Updated	1
20L2312	Tank Level Gauge or Indicator w/wo Switches	Updated	1
20L2321	Nuclear Radiation Level Switch	Updated	1
20L2351	Ultrasonic Contact-Type Level Switch	Updated	1
20L2361	Vibrating Element Level Switch	New-Updated	0
20L2371	Rotary Level Switch	Updated	1
20L2381	Optical Level Switch w/wo Remote Controller	New-Updated	0
20L2391	Diaphragm Level Switch	New-Updated	0
20L2501	Liquid Level Gage Glass w/wo Illuminator	Updated	1
20L2511	Magnetic Liquid Level Gage or Indicator w/wo Switches	Updated	1
20L2521	Electromechanical Servo/Plumb Bob Level Transmitter	New-Updated	0
<b>Pressure or Differential Pressure Devices</b>			
20P2001	Pressure Gauge	Updated	1
20P2011	Pressure Gauge with Diaphragm Seal	Updated	1
20P2101	Differential Pressure Gauge	Updated	1
20P2201	Pressure Transmitter	Updated	1
20P2211	Pressure Transmitter with Diaphragm Seal	Updated	1
20P2301	Differential Pressure Transmitter	Updated	1
20P2311	Differential Pressure Transmitter with Seals	Updated	1
20P2401	Pressure Switch w/wo Transmitter	Updated	1
20P2501	Differential Pressure Switch w/wo Transmitter	Updated	1
<b>Pressure Safety Devices</b>			
20P2901	Rupture Disk Assembly w/wo Burst Sensor	Updated	1

20P2911	Pressure Relief Tank Vent	New-Updated	0
20P2921	Pressure Relief Valve	Updated	1
<b>Receiver Devices</b>			
20R2011	Annunciator		
20R2111	Controller		
20R2121	Local Controller w/wo Recorder		
20R2201	Receiver Gauge	Updated	1
20R2211	Indicator		
20R2221	Field Signal Indicator w/wo Switches	New-Updated	0
20R2231	Totalizer Indicator		
20R2241	Digital Meter		
20R2311	Analog Recorder		
20R2411	Digital recorder		
<b>Temperature Devices</b>			
20T2001	Bimetallic Thermometer w/wo Thermowell	Updated	1
20T2101	Filled-System Thermometer w/wo Thermowell	Updated	1
20T2111	Filled-System Temperature Switch w/wo Thermowell	Updated	1
20T2121	Filled-System Temperature Transmitter w/wo Thermowell	Updated	1
20T2201	RTD Assembly w/wo Thermowell	Updated	1
20T2211	Thermistor Assembly w/wo Thermowell		
20T2221	RTD/Thermocouple Temperature Transmitter or Switch	Updated	1
20T2301	Thermocouple Assembly w/wo Thermowell	Updated	1
20T2302	Multipoint RTD/Thermocouple Assembly w/wo Thermowell	New-Updated	0
20T2401	Thermal Radiation Temperature Sensor w/wo Monitor	Updated	1
20T2501	Thermowell or Protecting Tube Assembly	Updated	1
<b>Vibration or Mechanical Analysis Devices</b>			
20V2101	Vibration Sensor/Transducer or Transmitter	New-Updated	0
20V2201	Vibration Transmitter/Alarm or Conditioner Module	New-Updated	0
20V2211	Vibration Monitor		
20V2301	Vibration Switch	New-Updated	0
20V2311	Machinery Monitoring or Protection System	New-Updated	0
<b>Weight Devices</b>			
20W2011	Electronic Weight Scale		
20W2111	Strain Gage Weight Indicator		
20W2211	Load Cell or Transducer	Updated	1

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20W2221	Electronic Weight Transmitter Indicator or Controller	Updated	1
<b>Relay or Compute or Converter Devices</b>			
20Y2011	Transducer		
20Y2111	Barrier or Isolator		
20Y2211	Signal Converter		
20Y2311	Analog Signal Switch		
20Y2511	Fieldbus Junction Component	Updated	1
20Y2512	Tag Number List Continued	Updated	1
20Y2611	Audible Signal Device	New-Updated	0
20Y2612	Visual Signal Device	New-Updated	0
<b>Position Devices</b>			
20Z2011	Electromechanical Limit Switch	Updated	1
20Z2012	Proximity Sensor	Updated	1
20Z2021	Proximity Switch		
20Z2111	Position Transmitter		

**TABLE 3 – General or special requirements form title**

Form Number	Form Title	Development Status, ISA-SP20	Rev
20G3001	General or Special Requirements	Updated	1

New-Updated 75

Old-Previous 89

Total 164

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## 20A2141 Semi-continuous Analyzer

RESPONSE ORGANIZATION				SEMI-CONTINUOUS ANALYZER				SPECIFICATION IDENTIFICATION				
1	[Enter Company]			Component type Line 49				1	Document no.	Click here to enter text.		
2	[Enter Company Address]			Control Parameters				2	Latest revision	Click [Data] [Publish Data]		
3				Who Calculation Results				3	Issue status	Select Status		
4								4	Choose an item	Choose an item		
5								5	Choose an item	Choose an item		
ADMINISTRATIVE IDENTIFICATIONS												
11	Process number			Sub-process no.			41	Return from mail type				
12	Process			Choose an item			42	Link based on link id				
13	Link			Choose an item			43	Link with link in item				
14	Site			Choose an item			44	Sample based on link id				
15	Area			Click [Data] [Publish Data]			45	Sample based on link in item				
16	Choose an item			Choose an item			46	Choose an item				
17	Choose an item			Choose an item			47	Choose an item				
SERVICE IDENTIFICATIONS												
18	Tap no./functional start			Click here to enter text.			48	Component type				
19	Service			Choose an item			49	Component style				
20	Service			Click here to enter text.			50	Component style				
21	Service			Choose an item			51	Component style				
22	Service			Choose an item			52	Component style				
23	Service			Choose an item			53	Component style				
24	Service			Choose an item			54	Component style				
25	Service			Choose an item			55	Component style				
26	Service			Choose an item			56	Component style				
27	Service			Choose an item			57	Component style				
28	Service			Choose an item			58	Component style				
29	Service			Choose an item			59	Component style				
30	Service			Choose an item			60	Component style				
31	Service			Choose an item			61	Component style				
32	Service			Choose an item			62	Component style				
33	Service			Choose an item			63	Component style				
34	Service			Choose an item			64	Component style				
35	Service			Choose an item			65	Component style				
36	Service			Choose an item			66	Component style				
37	Service			Choose an item			67	Component style				
38	Service			Choose an item			68	Component style				
PROCESS VARIABLES												
69	Flow Case Identification			Units			101	Minimum				
70	Process variable			Units			102	Maximum				
71	Process variable			Units			103	Units				
72	Process variable			Units			104	Units				
73	Process variable			Units			105	Units				
74	Process variable			Units			106	Units				
75	Process variable			Units			107	Units				
76	Process variable			Units			108	Units				
77	Process variable			Units			109	Units				
78	Process variable			Units			110	Units				
79	Process variable			Units			111	Units				
80	Process variable			Units			112	Units				
81	Process variable			Units			113	Units				
82	Process variable			Units			114	Units				
83	Process variable			Units			115	Units				
84	Process variable			Units			116	Units				
85	Process variable			Units			117	Units				
86	Process variable			Units			118	Units				
87	Process variable			Units			119	Units				
88	Process variable			Units			120	Units				
89	Process variable			Units			121	Units				
90	Process variable			Units			122	Units				
91	Process variable			Units			123	Units				
92	Process variable			Units			124	Units				
93	Process variable			Units			125	Units				
94	Process variable			Units			126	Units				
95	Process variable			Units			127	Units				
96	Process variable			Units			128	Units				
97	Process variable			Units			129	Units				
98	Process variable			Units			130	Units				
99	Process variable			Units			131	Units				
100	Process variable			Units			132	Units				
MATERIAL PROPERTIES												
133	Material name			Choose an item			139	NEPA health hazard				
134	Material composition			Choose an item			140	Flammability				
135	Material composition			Choose an item			141	Reactivity				
136	Material composition			Choose an item			142	Choose an item				
137	Material composition			Choose an item			143	Choose an item				
REMARKS												
Rev	Date	Revision Description	By	Appr1	Appr2	Appr3	Enter Comments					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					

RESPONSE ORGANIZATION				SEMI-CONTINUOUS ANALYZER				SPECIFICATION IDENTIFICATION				
1	[Enter Company]			Component type				1	Document no.	Click here to enter text.		
2	[Enter Company Address]			Quality Parameters (Continued)				2	Latest revision	Click [Data] [Publish Data]		
3								3	Issue status	Select Status		
4								4	Choose an item	Choose an item		
5								5	Choose an item	Choose an item		
PROCESS COMPOSITION OR PROPERTY												
212	Component Property			Normal	Units	Min (LCL)	Units	Max (UCL)	Units	Repeatability	Ref	
213	Choose an item			Click								
214	Choose an item			Click								
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271	Choose an item			Click								
272	Choose an item			Click								
273	Choose an item			Click								
274	Choose an item			Click								
275	Choose an item			Click								
REMARKS												
Rev	Date	Revision Description	By	Appr1	Appr2	Appr3	Enter Comments					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					
Click	Date	Click here to enter text.	Click	Click	Click	Click	Click here to enter text.					

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## 20A2141 Semi-continuous Analyzer

RESPONSIBLE ORGANIZATION		SEMI-CONTINUOUS ANALYZER		SPECIFICATION IDENTIFICATIONS		
1	(Enter Company)	Document no	Click here to enter text.	1	Document no	Click here to enter text.
2	(Enter Company)	Latest revision	Click Date Publish Detail	2	Latest revision	Click Date Publish Detail
3	(Address)	Issue status	Choose a list item	3	Issue status	Select Status
4		Choose a list item	Choose a list item	4	Choose a list item	Choose a list item

  

SEMI-CONTINUOUS ANALYZER		SEMI-CONTINUOUS ANALYZER			
11	Flow rate type	Choose a list item	60	Pressure control type	Choose a list item
12	Sample column name	Style	61	Pressure control quantity	Choose a list item
13	Sample column size	Style	62	Carrier gas mass service	Choose a list item
14	Column name	Style	63	Low sample flow contacts	Quantity
15	Combustible air column size	Style	64	Low air or gas contacts	Choose a list item
16	Sample valve no/size	Choose a list item	65	Gas pressure indication	Choose a list item
17	Flow rate type	Choose a list item	66	Choose a list item	Choose a list item
18	Flow rate type	Choose a list item	67	Choose a list item	Choose a list item
19	Type of isolation	Choose a list item	68	PURGE CONTROL SYSTEM	
20	Filter material	Choose a list item	69	Purge type	Choose a list item
21	Sample material	Choose a list item	70	Sample valve no/size	Choose a list item
22	Choose a list item	Choose a list item	71	Type of isolation	Choose a list item
23	Choose a list item	Choose a list item	72	Isolation indicator style	Choose a list item
24	Choose a list item	Choose a list item	73	Control system	Choose a list item
25	Choose a list item	Choose a list item	74	Choose a list item	Choose a list item
26	Choose a list item	Choose a list item	75	PERFORMANCE CHARACTERISTICS	
27	Flow rate type	Choose a list item	76	Max mass at design item	Click - At Click -
28	Flow rate type	Choose a list item	77	Min working temperature	Click - Min Click -
29	Application module style	Choose a list item	78	Warmup time	Click -
30	Type of isolation	Choose a list item	79	Response time (T90)	Click -
31	Power supply	Choose a list item	80	Min working item	Click -
32	Temperature control LRL	Click - LRL -	81	Control AC output	Click - At -
33	Flow rate type	Choose a list item	82	Control DC output	Click - At -
34	Choose a list item	Choose a list item	83	Max output to module in	Click -
35	Choose a list item	Choose a list item	84	Choose a list item	Choose a list item
36	Choose a list item	Choose a list item	85	Choose a list item	Choose a list item
37	DETECTOR		86	ACCESSORIES	
38	Detector type	Choose a list item	87	Auto service switch	Choose a list item
39	Detector quantity	Choose a list item	88	Auto service	Choose a list item
40	Carrier gas	Choose a list item	89	Sample shut off valve	Choose a list item
41	Combustion gas	Choose a list item	90	Block and bleed valve	Choose a list item
42	Power supply	Choose a list item	91	Choose a list item	Choose a list item
43	Choose a list item	Choose a list item	92	Choose a list item	Choose a list item
44	SAMPLE COLUMN SWITCHING VALVE		93	Choose a list item	Choose a list item
45	Sample switching type	Choose a list item	94	Choose a list item	Choose a list item
46	Sample injection style	Choose a list item	95	SPECIAL REQUIREMENTS	
47	Injection valve type	Choose a list item	96	Custom item	Choose a list item
48	Switching valve type	Choose a list item	97	Reference specification	Choose a list item
49	Valve body material	Choose a list item	98	Control AC output	Choose a list item
50	Valve seal material	Choose a list item	99	Definition type	Choose a list item
51	Choose a list item	Choose a list item	100	Calibration report	Choose a list item
52	Choose a list item	Choose a list item	101	PHYSICAL DATA	
53	Choose a list item	Choose a list item	102	Estimated weight	Click -
54	Column type	Choose a list item	103	Overall height	Click -
55	Column switching type	Choose a list item	104	Overall width	Click -
56	Carrier gas (inlet)	Choose a list item	105	Min reference item	Choose a list item
57	Choose a list item	Choose a list item	106	Choose a list item	Choose a list item

  

TAG NO/FUNCTIONAL		MEAS SIGNAL/TEST		URV		ACTION		LRY		URV	
111	Choose a list item	112	Maintenance Output	113	Click -	114	Click -	115	Click -	116	Click -
117	Choose a list item	118	Test pressure	119	Click -	120	Click -	121	Click -	122	Click -

  

COMPONENT TYPE		MANUFACTURER		MODEL NUMBER	
121	Choose a list item	122	Choose a list item	123	Click here to enter text.
124	Choose a list item	125	Choose a list item	126	Click here to enter text.
127	Choose a list item	128	Choose a list item	129	Click here to enter text.
130	Choose a list item	131	Choose a list item	132	Click here to enter text.

  

REVISION		REVISION		REVISION		REVISION		REVISION		REVISION	
Rev	Date	Rev	Date	Rev	Date	Rev	Date	Rev	Date	Rev	Date
Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click
Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click
Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click
Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click

RESPONSIBLE ORGANIZATION		SEMI-CONTINUOUS ANALYZER		SPECIFICATION IDENTIFICATIONS		
1	(Enter Company)	Document no	Click here to enter text.	1	Document no	Click here to enter text.
2	(Enter Company)	Latest revision	Click Date Publish Detail	2	Latest revision	Click Date Publish Detail
3	(Address)	Issue status	Choose a list item	3	Issue status	Select Status
4		Choose a list item	Choose a list item	4	Choose a list item	Choose a list item

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Contents

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Rev		Date		Revision Description		By		Appv1		Appv2		Appv3		REMARKS	
Click	Click	Click	Click	Click here to enter text.	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	
Click	Click	Click	Click	Click here to enter text.	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	
Click	Click	Click	Click	Click here to enter text.	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	
Click	Click	Click	Click	Click here to enter text.	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	
Click	Click	Click	Click	Click here to enter text.	Click	Click	Click	Click	Click	Click	Click	Click	Click	Click	



# 20C2002 Linear Motion Control Valve Assembly with Auxiliaries

Form: 20C300.2 Rev 1 Page 1Form: 20C2002 Rev 1 Page 2

# 20C2002 Linear Motion Control Valve Assembly with Auxiliaries

RESPONSIBLE ORGANIZATION			UNIMOTION TYPE CONTROL VALVE			SPECIFICATION IDENTIFICATION		
1	[Enter Company]		ASSIGNMENT WITH AUXILIARIES			1	Document no. Click here to enter text.	
2	[Enter Company]		Component type			2	Latest revision Click Date Publish Date	
3	[Address]		Device Specification			3	Issue status Click to enter text.	
4						10	Choose an item. Choose an item.	
POSITION SWITCHES								
11	Mounting type		Choose an item.			59	POSITION TRANSDUCTER Continued	
12	Sensor style		Choose an item.			60	Integral indicator style	
13	Output signal type		Choose an item.			61	Signal nominal size	
14	Enclosure type no class		Choose an item.			62	Type of protection	
15	Contacts dc rating		Choose an item.			63	Mounting location type	
16	Contacts ac rating		Choose an item.			64	Enclosure material	
17	Contacts arrangement		Choose an item.			65	Choose an item.	
18	Integral indicator style		Choose an item.			66	Choose an item.	
19	Signal nominal size		Choose an item.			67	SUPPLY PRESSURE TRIP VALVE	
20	Type of protection		Choose an item.			68	Configuration type	
21	Mounting location type		Choose an item.			69	Volume tank size	
22	Enclosure material		Choose an item.			70	Trip set pressure reset	
23	Shaft material		Choose an item.			71	Trip max working pressure	
24	Bushing material		Choose an item.			72	Min supply capability	
25	Fastener material		Choose an item.			73	Trip set pressure URL	
26	Gasket/O ring material		Choose an item.			74	Construction code	
27	Choose an item.		Choose an item.			75	Mounting location type	
28	Choose an item.		Choose an item.			76	Body material	
29	Choose an item.		Choose an item.			77	Diaphragm/O ring material	
30	Choose an item.		Choose an item.			78	Choose an item.	
SOLENOID OR PULSIC VALVE								
31	Body type		Choose an item.			79	EMISSIONS MONITOR SWITCH	
32	Enclosure style		Choose an item.			80	Sensor type	
33	Inlet conn nominal size		Choose an item.			81	Mounting type	
34	Coil watt rating		Choose an item.			82	Inlet conn nominal size	
35	Coil insulation class		Choose an item.			83	Output signal type	
36	Enclosure type no class		Choose an item.			84	Enclosure type no class	
37	Min operating pressure diff		Choose an item.			85	Contacts dc rating	
38	Signal power source		Choose an item.			86	Contacts ac rating	
39	Manual operator type		Choose an item.			87	Contacts arrangement	
40	Type of actuation		Choose an item.			88	Integral indicator style	
41	Coil type		Choose an item.			89	Signal nominal size	
42	Operation style		Choose an item.			90	Type of protection	
43	Press port orifice size		Choose an item.			91	Mounting location type	
44	Signal nominal size		Choose an item.			92	Enclosure material	
45	Type of protection		Choose an item.			93	Diaphragm material	
46	Mounting location type		Choose an item.			94	Choose an item.	
47	Enclosure material		Choose an item.			BOOSTER RELAY		
48	Body material		Choose an item.			95	Configuration type	
49	Seal/O-ring/Diaphragm mat		Choose an item.			96	And conn nominal size	
50	Choose an item.		Choose an item.			97	Speed band rating	
51	Choose an item.		Choose an item.			98	Min supply capability	
POSITION TRANSDUCTER								
52	Mounting type		Choose an item.			99	Supply port size	
53	Sensor style		Choose an item.			100	Seal material	
54	Output signal type		Choose an item.			101	Coil or member mat	
55	Accuracy/linearity rating		Choose an item.			102	Diaphragm material	
56	Enclosure type no class		Choose an item.			103	Test conn material	
57	Digital communication and		Choose an item.			104	Gasket/O ring material	
58	Signal power source		Choose an item.			105	Choose an item.	
FUNCTIONALITY AND TEST								
110	TAG NO/FUNCTIONAL		MEAS/SIGNAL/TEST		URV	URV	ACTION	URV
111	Choose an item.		Position-Air-Inp-Output		Click	Click	Click	Click
112	Choose an item.		Sensor-Air-Inp-Output		Click	Click	Click	Click
113	Choose an item.		Position-Slave-Inp-Output		Click	Click	Click	Click
114	Choose an item.		Position-Slave-Inp-Output		Click	Click	Click	Click
115	Choose an item.		Supply-Air-Inp-Output		Click	Click	Click	Click
116	Choose an item.		Supply-Air-Inp-Output		Click	Click	Click	Click
117	Choose an item.		Emissions-Air-Inp-Output		Click	Click	Click	Click
118	Choose an item.		Emissions-Air-Inp-Output		Click	Click	Click	Click
FUNCTIONALITY AND TEST CONTINUED								
COMPONENT TYPE								
120	Position switch		Choose an item.			MODEL NUMBER		
121	Solenooid trip valve		Choose an item.			Click here to enter text.		

1	RESPONSIBLE ORGANIZATION	LINEAR MOTION TYPE CONTROL	6	SPECIFICATION IDENTIFICATIONS	
2	(Enter Command)	VALVE ASSEMBLY WITH	7	Document no	Click here to enter text...
3	(Enter Company)	Command Type	8	Latest revision	Click here to enter text...
4	(Address)	GENERAL OR	9	Issue status	Select status
		SPECIAL REQUIREMENTS	10	Choose a an item	Choose a an item

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Rev	Date	Revision Description	By	Appr1	Appr2	Appr3	REMARKS
Click	Date	Click here to enter text.	Click	Click	Click	Click	Enter Comments
Click	Date	Click here to enter text.	Click	Click	Click	Click	
Click	Date	Click here to enter text.	Click	Click	Click	Click	
Click	Date	Click here to enter text.	Click	Click	Click	Click	

# ISA S20 Specification Forms integration with SPI



Gerald Barta (email [gbarta@comcast.net](mailto:gbarta@comcast.net))