



## P & ID Symbol Library

12th May 2010

	Revision	Date	Change	Type	Qty
	V1.0.0	12/05/2010	Initial Release	P & ID Symbols	210
© Virtual Interconnect 2010				Fibers	17
				Groups	0
				Templates	4
				<b>TOTAL</b>	<b>231</b>

Index	Symbol Name	Block	Type	Category	Update	Datatable	No of symbols
1	Device Symbol Tag	Block	Annotation Symbols	Annotation Symbols	N/a	N/a	1
2	Line service designator	Block	Annotation Symbols	Annotation Symbols	N/a	N/a	1
3	Page continuation	Block	Annotation Symbols	Annotation Symbols	N/a	N/a	2
4	Rev triangle	Block	Annotation Symbols	Annotation Symbols	N/a	N/a	1
5	Slope	Block	Annotation Symbols	Annotation Symbols	N/a	N/a	1
6	Computer Function Auxillary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
7	Computer Function Field Mount_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
8	Computer Function Inaccessible_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
9	Computer Function Primary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
10	Discrete Auxillary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
11	Discrete Field Mount_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
12	Discrete Inaccessible_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
13	Discrete Primary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
14	PLC Auxillary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
15	PLC Field Mount_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
16	PLC Inaccessible_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
17	PIC Primary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
18	Shared Auxillary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
19	Shared Field Mount_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
20	Shared Inaccessible_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
21	Shared Primary_BT	Block	Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
22	Computer Function Auxillary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
23	Computer Function Field Mount	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
24	Computer Function Inaccessible	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
25	Computer Function Primary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
26	Discrete Auxillary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
27	Discrete Field Mount	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
28	Discrete Inaccessible	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
29	Discrete Primary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
30	PLC Auxillary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
31	PLC Field Mount	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
32	PLC Inaccessible	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
33	PIC Primary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
34	Shared Auxillary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
35	Shared Field Mount	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
36	Shared Inaccessible	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
37	Shared Primary	Block	No Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
38	Computer Function Auxillary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
39	Computer Function Field Mount_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
40	Computer Function Inaccessible_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
41	Computer Function Primary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
42	Discrete Auxillary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
43	Discrete Field Mount_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
44	Discrete Inaccessible_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
45	Discrete Primary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
46	PLC Auxillary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
47	PLC Field Mount_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
48	PLC Inaccessible_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
49	PIC Primary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
50	Shared Auxillary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
51	Shared Field Mount_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
52	Shared Inaccessible_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
53	Shared Primary_TBT	Block	Top and Bottom Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
54	Computer Function Auxillary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
55	Computer Function Field Mount_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
56	Computer Function Inaccessible_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
57	Computer Function Primary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
58	Discrete Auxillary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1

59	Discrete Field Mount_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
60	Discrete Inaccessible_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
61	Discrete Primary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
62	PLC Auxillary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
63	PLC Field Mount_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
64	PLC Inaccessible_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
65	PIC Primary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
66	Shared Auxillary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
67	Shared Field Mount_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
68	Shared Inaccessible_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
69	Shared Primary_LT	Block	Top Tag Break	Electrical and Instrumentation Symbols	N/a	N/a	1
70	55 Gallon Drum	Block	Equipment	Equipment Symbols	N/a	N/a	1
71	Aerator with Sparger	Block	Equipment	Equipment Symbols	N/a	N/a	1
72	Air Compressor	Block	Equipment	Equipment Symbols	N/a	N/a	1
73	Air Dryer	Block	Equipment	Equipment Symbols	N/a	N/a	1
74	Air Separator	Block	Equipment	Equipment Symbols	N/a	N/a	1
75	Bag Feeder	Block	Equipment	Equipment Symbols	N/a	N/a	1
76	Bar Screen	Block	Equipment	Equipment Symbols	N/a	N/a	1
77	Belt Skimmer	Block	Equipment	Equipment Symbols	N/a	N/a	1
78	Bin	Block	Equipment	Equipment Symbols	N/a	N/a	1
79	Boiler	Block	Equipment	Equipment Symbols	N/a	N/a	1
80	Bucket Elevator	Block	Equipment	Equipment Symbols	N/a	N/a	1
81	Centrifuge	Block	Equipment	Equipment Symbols	N/a	N/a	1
82	Chiller	Block	Equipment	Equipment Symbols	N/a	N/a	1
83	Clarifier	Block	Equipment	Equipment Symbols	N/a	N/a	1
84	Conveyor Belt	Block	Equipment	Equipment Symbols	N/a	N/a	1
85	Cooling Tower	Block	Equipment	Equipment Symbols	N/a	N/a	1
86	Cyclone	Block	Equipment	Equipment Symbols	N/a	N/a	1
87	Duplex Strainer	Block	Equipment	Equipment Symbols	N/a	N/a	1
88	Dust Collector	Block	Equipment	Equipment Symbols	N/a	N/a	1
89	Filter	Block	Equipment	Equipment Symbols	N/a	N/a	1
90	Filter Press	Block	Equipment	Equipment Symbols	N/a	N/a	1
91	Flame Arrestor	Block	Equipment	Equipment Symbols	N/a	N/a	1
92	Flocculating Clarifier	Block	Equipment	Equipment Symbols	N/a	N/a	1
93	Heat Exchanger	Block	Equipment	Equipment Symbols	N/a	N/a	1
94	Horn	Block	Equipment	Equipment Symbols	N/a	N/a	1
95	Injector	Block	Equipment	Equipment Symbols	N/a	N/a	1
96	Inline Mixer	Block	Equipment	Equipment Symbols	N/a	N/a	1
97	Plate Separator	Block	Equipment	Equipment Symbols	N/a	N/a	1
98	Pulse Damper	Block	Equipment	Equipment Symbols	N/a	N/a	1
99	Rail Car	Block	Equipment	Equipment Symbols	N/a	N/a	1
100	Rolling Bin	Block	Equipment	Equipment Symbols	N/a	N/a	1
101	Rotary Screen	Block	Equipment	Equipment Symbols	N/a	N/a	1
102	Rotary Separator	Block	Equipment	Equipment Symbols	N/a	N/a	1
103	Safety Shower	Block	Equipment	Equipment Symbols	N/a	N/a	1
104	Screw Conveyor	Block	Equipment	Equipment Symbols	N/a	N/a	1
105	Silencer	Block	Equipment	Equipment Symbols	N/a	N/a	1
106	Single Strainer	Block	Equipment	Equipment Symbols	N/a	N/a	1
107	Solids Contact Clarifier	Block	Equipment	Equipment Symbols	N/a	N/a	1
108	Splitter Box	Block	Equipment	Equipment Symbols	N/a	N/a	1
109	Flow Orifice	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
110	Flume	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
111	Magnetic Flow Meter	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
112	Rotameter	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
113	Rotameter With Valve	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
114	Site Flow Indicator	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
115	Sonic Flow Meter	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
116	Spectacle Blind Closed	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
117	Specacle Blind Open	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
118	Thermal Mass Flow Meter	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
119	Turbine Flow Meter	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
120	Venturi	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
121	Vortex Sensor	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
122	Weir	Block	Flow Element	Flow Element Symbols	N/a	N/a	1
123	Air Filter	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
124	Air Lubricator	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
125	Air Regulator	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
126	Chemical Seal	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
127	Drain	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
128	Expansion Joint	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
129	Filter Regulator	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
130	Flanges	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
131	Flexible Hose	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
132	Hose Connector	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
133	Insulation	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
134	Insulation Electric Trace	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
135	Insulation Steam Trace	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1

136	Line service designator	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
137	Mechanical Coupling	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
138	Pressure Indicator	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	2
139	Quick Disconnect	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
140	Reducer Concentric	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
141	Reducer Eccentric	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
142	Rupture Disc	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
143	Strainer	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
144	Union	Block	Inline Piping	Inline Piping Symbols	N/a	N/a	1
145	Blower	Block	Pumps	Pump Symbols	N/a	N/a	1
146	Centrifugal Pump	Block	Pumps	Pump Symbols	N/a	N/a	3
147	Diaphragm	Block	Pumps	Pump Symbols	N/a	N/a	1
148	Diaphragm Pump	Block	Pumps	Pump Symbols	N/a	N/a	1
149	Gear	Block	Pumps	Pump Symbols	N/a	N/a	1
150	Metering	Block	Pumps	Pump Symbols	N/a	N/a	1
151	Nozzle	Block	Pumps	Pump Symbols	N/a	N/a	1
152	Progressive Cavity	Block	Pumps	Pump Symbols	N/a	N/a	1
153	Screw Conveyor	Block	Pumps	Pump Symbols	N/a	N/a	1
154	Submersible	Block	Pumps	Pump Symbols	N/a	N/a	1
155	Sump	Block	Pumps	Pump Symbols	N/a	N/a	1
156	Vertical Turbine	Block	Pumps	Pump Symbols	N/a	N/a	1
157	Cone Bottom Closed Top	Block	Tanks	Pump Symbols	N/a	N/a	1
158	Cone Bottom Open Top	Block	Tanks	Pump Symbols	N/a	N/a	1
159	Diffuser Header	Block	Tanks	Pump Symbols	N/a	N/a	1
160	Dome	Block	Tanks	Pump Symbols	N/a	N/a	1
161	Elevated Tank	Block	Tanks	Pump Symbols	N/a	N/a	1
162	Horizonital Tank	Block	Tanks	Pump Symbols	N/a	N/a	1
163	Open Top	Block	Tanks	Pump Symbols	N/a	N/a	1
164	Prop Aerator	Block	Tanks	Pump Symbols	N/a	N/a	1
165	Prop Agitator	Block	Tanks	Pump Symbols	N/a	N/a	1
166	Turbine Agitator	Block	Tanks	Pump Symbols	N/a	N/a	1
167	Vent	Block	Tanks	Pump Symbols	N/a	N/a	2
168	Tee	Block	Tee	Tee	N/a	N/a	1
169	Cylinder	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
170	Diaphragm	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
171	ElectroHydraulic	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
172	Electropneumatic	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
173	Hand Actuator	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
174	Motor	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
175	Pressure Balanced Diaphragm	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
176	Relief	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
177	Solenoid	Block	Valve Operator	Valve Operator Symbols	N/a	N/a	1
178	3-Way Valve	Block	Valves	Valve Symbols	N/a	N/a	1
179	4-Way Valve	Block	Valves	Valve Symbols	N/a	N/a	1
180	Angle Valve	Block	Valves	Valve Symbols	N/a	N/a	2
181	Backflow Preventer	Block	Valves	Valve Symbols	N/a	N/a	1
182	Balancing Damper	Block	Valves	Valve Symbols	N/a	N/a	1
183	Ball Check	Block	Valves	Valve Symbols	N/a	N/a	1
184	Ball Valve	Block	Valves	Valve Symbols	N/a	N/a	1
185	Butterfly Valve	Block	Valves	Valve Symbols	N/a	N/a	1
186	Check Valve	Block	Valves	Valve Symbols	N/a	N/a	2
187	Double Leaf Check Valve	Block	Valves	Valve Symbols	N/a	N/a	1
188	Diaphragm Valve	Block	Valves	Valve Symbols	N/a	N/a	1
189	Duckbill Check valve	Block	Valves	Valve Symbols	N/a	N/a	1
190	Float Valve	Block	Valves	Valve Symbols	N/a	N/a	1
191	Gate Valve	Block	Valves	Valve Symbols	N/a	N/a	1
192	Globe Valve	Block	Valves	Valve Symbols	N/a	N/a	1
193	Knife Valve	Block	Valves	Valve Symbols	N/a	N/a	1
194	Needle Valve	Block	Valves	Valve Symbols	N/a	N/a	1
195	Pinch Valve	Block	Valves	Valve Symbols	N/a	N/a	1
196	Plug Valve	Block	Valves	Valve Symbols	N/a	N/a	1
197	Pressure Reducing Valve	Block	Valves	Valve Symbols	N/a	N/a	1
198	Pressure Regulate External Valve	Block	Valves	Valve Symbols	N/a	N/a	1
199	Pressure Regulate Self Valve	Block	Valves	Valve Symbols	N/a	N/a	1
200	Pressure Valve	Block	Valves	Valve Symbols	N/a	N/a	1
201	Relief Valve	Block	Valves	Valve Symbols	N/a	N/a	1
202	Squeeze Valve	Block	Valves	Valve Symbols	N/a	N/a	1
203	Vaccum Relief Valve	Block	Valves	Valve Symbols	N/a	N/a	1
204	Capillary Tube	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
205	Electric Binary Signal Tube	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
206	Electric Secondary Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
207	Electric Signal Type 1	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
208	Electric Signal Type 2	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
209	Existing Process Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
210	Flexible Hose	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
211	Future Process Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
	Future Secondary Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1

212	Hydraulic	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
213	Mechanical	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
214	Pneumatic	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
215	Process Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
216	Secondary Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
217	Sonic Guided	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
218	Sonic Unguided	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
219	General Supply	Fiber	Process and Signal Line	Process and Signal Line	N/a	N/a	1
220	A0_METRIC	TEMPLATE	N/a	DESIGN TEMPLATE	N/a	N/a	1
221	A1_METRIC	TEMPLATE	N/a	DESIGN TEMPLATE	N/a	N/a	1
222	A2_METRIC	TEMPLATE	N/a	DESIGN TEMPLATE	N/a	N/a	1
223	A3_METRIC	TEMPLATE	N/a	DESIGN TEMPLATE	N/a	N/a	1