

		11SDV-1101	11SDV-1102	11SDV-1301	11SDV-1302	11SDV-1201	11SDV-1401	11SDV-1402	11SDV-2101	11SDV-2102	11SDV-2103	11SDV-1403
GENERAL	Tag No	11SDV-1101	11SDV-1102	11SDV-1301	11SDV-1302	11SDV-1201	11SDV-1401	11SDV-1402	11SDV-2101	11SDV-2102	11SDV-2103	11SDV-1403
	Service	Combustion Air	Combustion Air	Acid Gas	Sour Gas	Sour Condenser	Fuel Gas to MB	Fuel Gas	Fuel Gas	Fuel Gas	Fuel Gas	Fuel Gas
	Line Size (inch)	4	3	3	2	1.5	1	1	1	1	1	1
	Area Classification	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB	ZONE 1,Gr. IIB
	Ambient Temp	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C	2 deg C to 55 deg C
BODY	Relative Humidity	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %	10 - 95 %
	Type	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged	Floating Ball, Flanged
	Body Size, Conn.	4 Inch, 150W RF	3 Inch, 150W RF	3 Inch, 150W RF	2 Inch, 150W RF	1 Inch, 150W RF	1 Inch, 150W RF	1 Inch, 150W RF	1 Inch, 150W RF	1 Inch, 150W RF	1 Inch, 150W RF	1 Inch, 150W RF
	Flg Surface Finish	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125	RF Smooth AARH125
	Flange-Flange Dimension	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10	ASME B16.10
BONNET	Material Body	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB	A216 Gr. WCB
	Bonnet Type	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify
	Gland Packing	PTFE	PTFE	PTFE impregnated Asbestos	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	Gasket Material	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify
	Trim Size	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE	FULL BORE
TRIM	Characteristic	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF	ON-OFF
	Leakage Class	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)	VI (Tight Shut Off)
	Seat material	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	Ball Material	SS316	SS316	CF8M	SS316	CF8M	SS316	SS316	SS316	SS316	SS316	SS316
	Shaft Material	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316	SS410/SS316
ACTUATOR	Type	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion	Compact Type, Pneumatic Single Acting, Spring Return, Rack & Pinion
	Air Supply	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g	4.0 Kg/cm2 g
	Stroke Time	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify	Vendor to specify
	Position on Air Fall	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE	CLOSE
	Air Connection	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing	1/4" tubing
ACCESSORIES REQUIRED	Material	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring	Pressed Steel, Corrosion Resistant Spring
	Vent Port	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle	Plugged with SS Whistle
	Air Filter Regulator	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge	5 Micron Filter , with Gauge
	Type	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67	SOV with Manual Reset Mechanism at Field SIL-3, 3/2 Way, H-Coil insulation, Coil voltage: 110VAC, Exd to Gr.IIA&IIB, IP 67
	Rating	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF	1/4" NPTF Air Conn, Cable Entry: 1/2" NPTF
POSITION FEEDBACK SWITCH	To be supplied alongwith one no cable Glands	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.	SOV Directly mouted and connected to body (Nampur) are not acceptable. Bidders to provide SOV datasheet with SIL certificate with technical offer for evaluation purpose.
	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)	Rotary Limit Switch, 2 nos Microswitches (separate for Open & Close) SPDT (NO & NC)
	Dual 1/2" NPTF Cable Entry	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands	To be supplied alongwith two nos cable Glands
	Rating	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC	5 Amps at 230 VAC
	Feed Required For Enclosure	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close	Valve Open & Close
DOCUMENTATION	Manual and Datsheet	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Maintenance Guide	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Detailed Drawing	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Test Report	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Tag number	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters	Shall printed in bold letters
TAG PLATE	Manufacturer name, model and serial number	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Actuator model no. & spring range	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Failure position	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required	Required
	Body material	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall also be stamped on body	Shall

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