

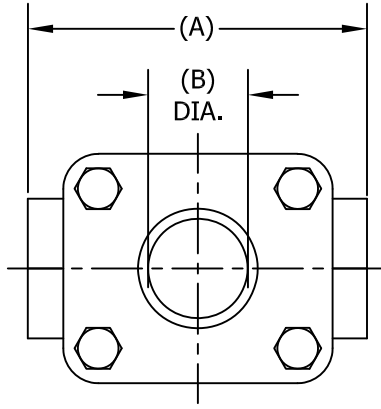
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**SIGHT FLOW INDICATOR  
 MODEL S-100HPA-CL9 &  
 S-200HPA-CL9 & S-300HPA-CL9  
 FOR ASME CL900 SERVICE**

SECTION: T400  
 BULLETIN: T400.119  
 DATE: 10/13/2020  
 SUPERSEDES: 08/02/2017  
 FILE NO.: T400-119.DWG  
 DRAWN: MWS | CHECKED: DEP  
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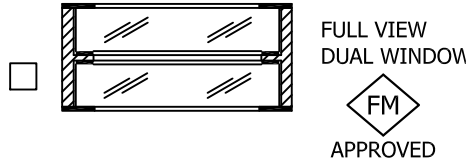
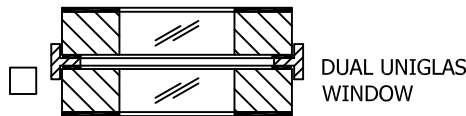


PARTS LIST			
PIECE NO.	PART NAME	QTY.	STANDARD DESIGN MATERIALS
1	BODY (SEE NOTE (1))	1	ASTM A216-WCB (CARBON STEEL) ASTM A351-CF8M (316 SS)
2	RETAINER (1)	2	ASTM A216-WCB (CARBON STEEL) ASTM A516 GR.70 (CARBON STEEL)
3	BOLT (1)	4	ASTM A354-BD (ALLOY STEEL)
4	NUT (1)	4	ASTM A194-2H (ALLOY STEEL)
5	WINDOW (2)	2	TEMPERED BOROSILICATE
6	SEAL GASKET (3)	2	FIBER
7	SHIM GASKET	6	FIBER
8	INDICATOR	1	DRIP TUBE (316SS)   FLUTTER (PTFE) FLAPPER (316SS)   ROTOR (PTFE)   GAS INDICATOR (PTFE)
9	WINDOW HOLDER(1)	2	(CARBON STEEL) (316 SS)

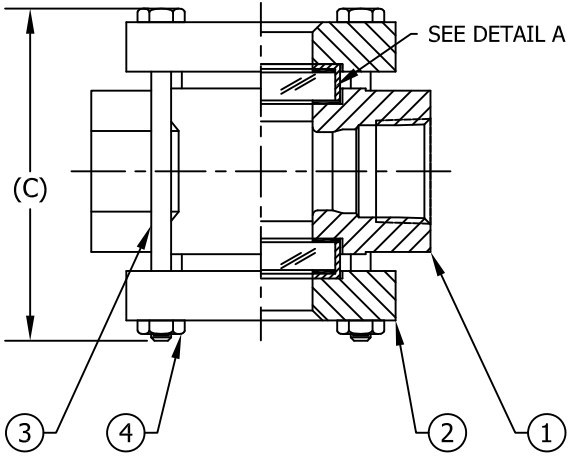
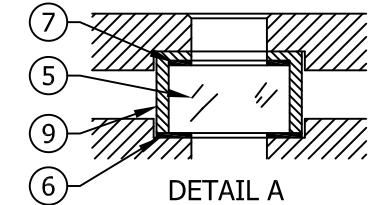
NOTES (REFERENCE PARTS LIST)

(1) ADDITIONAL ALLOYS AVAILABLE PER REQUEST  
 (2) a. OPTIONAL MATERIALS AVAILABLE PER PROCESS CONDITIONS  
 b. ADDITIONAL WINDOW OPTIONS AVAILABLE SEE SIDE SECTION FOR DETAILS  
 (3) COMMON OPTIONAL SEAL MATERIALS AVAILABLE  
 PTFE  GRAPHITE

DESIGNED IN ACCORDANCE WITH ASME B31.1 & B31.3 FOR PRESSURE VERSUS TEMPERATURE RATINGS USING ONLY LISTED METALS IN FABRICATION



- FLAPPER S-100HPA-CL9
- ROTOR S-300HPA-CL9
- DRIP TUBE S-200HPA-CL9
- GAS INDICATOR S-100HPA-CL9-GI
- FLUTTER S-100HPA-CL9-FLTR
- NO INDICATOR S-100HPA-CL9-(NF)



ASME PRESSURE / TEMP RATINGS PSIG / °F (BAR / °C)		
TEMP °F (°C)	PRESSURE	
	STEEL	316 SS
-20 TO 100	2220 (153.1)	2160 (148.9)
150 (66)	2128 (146.7)	2010 (138.6)
200 (93)	2035 (140.3)	1860 (128.2)
250 (121)	2000 (137.9)	1770 (122.0)
300 (149)	1965 (135.5)	1680 (115.8)
350 (177)	1933 (133.3)	1610 (111.0)
400 (204)	1900 (131.0)	1540 (106.2)
450 (232)	1855 (127.9)	1488 (102.6)
500 (260)	1810 (124.8)	1435 (98.9)

FOR TEMPERATURES ABOVE 500°F (260°C) REFER TO ASME B16.5 FOR PRESSURE RATINGS

DIMENSIONS								
NPT SIZE	A		B		C (*)		APPROX. WEIGHT	
	IN	mm	IN	mm	IN	mm	LBS	KGS
1/4	3.750	95	0.813	21	6.000	152	13.20	5.99
3/8	3.750	95	0.813	21	6.000	152	13.20	5.99
1/2	4.500	114	1.063	32	6.500	165	13.20	5.99
3/4	4.500	114	1.063	32	6.500	165	13.20	5.99
1	4.880	124	1.250	32	8.000	203	15.60	7.10
1 1/4	6.000	152	2.000	51	10.500	267	32.40	14.69
1 1/2	6.000	152	2.000	51	10.500	267	32.40	14.69
2	6.000	152	2.000	51	10.500	267	32.40	14.69

(\*) STANDARD BOLT LENGTH SHOWN. OPTIONAL WINDOW MATERIALS OR USE OF STUDS MAY INCREASE LENGTH FOR SINGLE WINDOW (1 PER SIDE) TEMPERED GLASS.