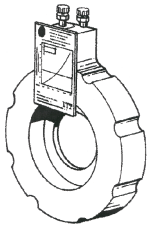
Bell & Gossett

SUBMITTAL

A-550G

JOB:	**REPRESENTATIVE:**	
UNIT TAG:	**SUBMITTED BY:**	**DATE:**
ENGINEER:	**APPROVED BY:**	**DATE:**
CONTRACTOR:		



Circuit Sensor®

Flow Meter - Type A

Engineered Products

DESCRIPTION

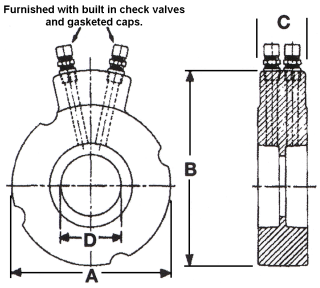
The B&G Circuit Sensor Flow Meter is a precision machined wafer-type orifice insert that is installed between standard 125, 150, 250 or 300 psi ANSI flanges, to monitor system flow with a minimum friction head loss.

System flow is determined by obtaining a differential pressure across the flow meter orifice by sensing upstream and downstream pressures through the readout valves, then referring to the calibrated nameplate for the corresponding flow.

CONSTRUCTION

Body: Cast iron
Readout Valves: Brass, with integral EPT check valve

DIMENSIONS AND WEIGHTS



Maximum working Pressure 300 PSIG (2069 kPa)
Maximum Operating Temperature 250°F (121°C)

SCHEDULE

MODEL NUMBER	TAGGING INFORMATION	QUANTITY
OP-2-1/2A		
OP-3A		
OP-4A		
OP-5A		
OP-6A		
OP-8A		
OP-10A		
OP-12A		

MODEL NO.	RECOMMENDED* FLOW RANGE GPM (L/MIN)	Cv RATING (MM)		DIMENSIONS IN INCHES (MM)					APPROX. SHPG WT LBS. (Kg)
		FOR DIFFERENTIAL PRESSURE	FOR FRICTION HEAD LOSS	PIPE SIZE	A	B	C	D	
OP-2-1/2A	27-80 (102-303)	40.5(153)	54.2 (205)	2-1/2	5-1/16 (128.6)	6-1/4 (158.8)	1-1/2 (38.1)	1.455 (37.0)	7 (3)
OP-3A	47-140 (178-530)	71 (269)	98 (371)	3	5-13/16 (147.6)	7 (177.8)	1-1/2 (38.1)	1.908 (48.5)	8 (4)
OP-4A	93-280 (352-1060)	142 (538)	202 (765)	4	7-1/16 (179.4)	8-1/2 (215.9)	1-1/2 (38.1)	2.667 (67.7)	11 (5)
OP-5A	170-510 (644-1930)	258 (977)	379 (1435)	5	8-7/16 (214.3)	9-3/4 (247.7)	1-1/2 (38.1)	3.548 (90.1)	14 (6)
OP-6A	283-850 (1071-3218)	430 (1628)	670 (2536)	6	9-13/16 (249.2)	11-1/8 (282.6)	1-1/2 (38.1)	4.504 (114.4)	18 (8)
OP-8A	500-1500 (1893-5678)	760 (2877)	1157 (4380)	8	12-1/16 (306.4)	13-1/2 (342.9)	1-1/2 (38.1)	5.983 (152.0)	25 (11)
OP-10A	817-2450 (3093-9274)	1241 (4698)	1882 (7124)	10	14-3/16 (360.4)	15-7/8 (403.2)	1-1/2 (38.1)	7.625 (193.7)	31 (14)
OP-12A	1110-3330 (4202-12605)	1686 (6382)	2445 (9255)	12	16-9/16 (420.7)	18-1/2 (469.9)	1-1/2 (38.1)	8.937 (227.0)	43 (20)

*Flows above upper limit will decrease accuracy up to ± 1%.
Dimensions are approximate and subject to change. Consult factory for certified dimensions.

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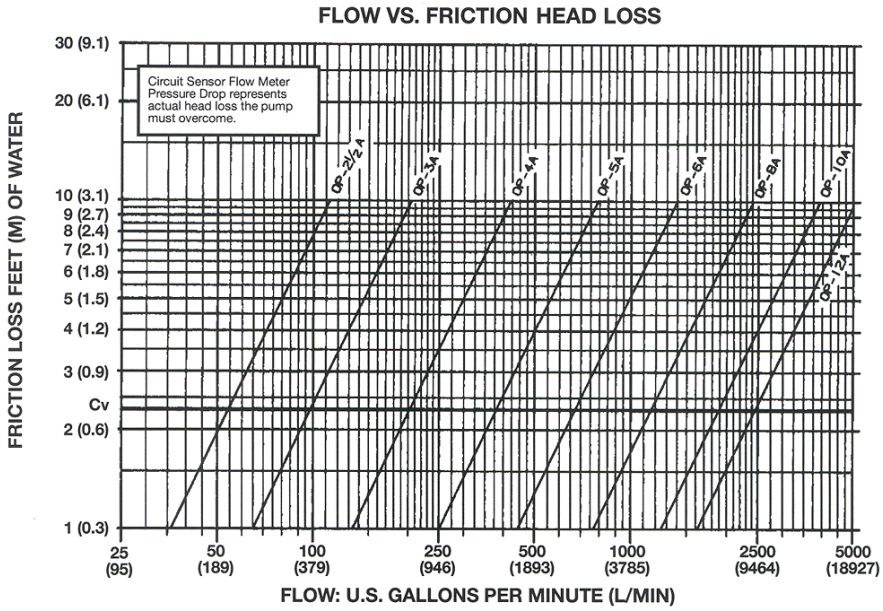
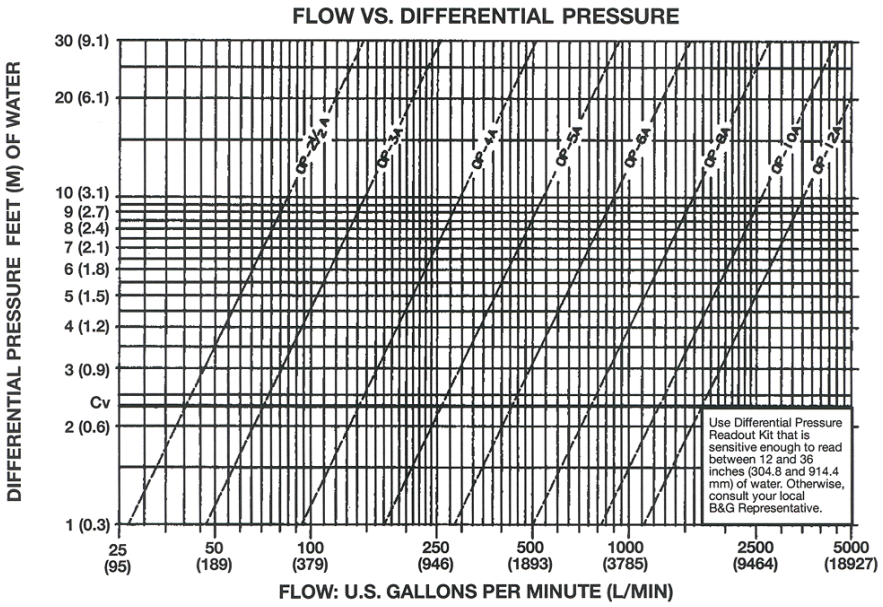
PERFORMANCE CHARACTERISTICS





NOTE:
To retain full calibrated accuracy, a minimum length of unrestricted piping must be maintained upstream and downstream of the Circuit Sensor Flow Meter. Refer to Data Sheet HS-CSFM-982 or the G95620 Instruction Sheet included with Circuit Sensor Flow Meters, for details.

IMPORTANT:
Circuit Sensor Flow Meters are suitable for a maximum operating temperature of 250ºF (121° C), and are equipped with RV-125A Readout Valves fitted with an integral EPT check valve designed to minimize system fluid loss during the monitoring process.

CAUTION:
When monitoring system, flow care must be exercised to avoid direct skin or eye contact with liquids that may escape. Liquids with temperatures in excess of 120°F (49°C) may cause burns.

TYPICAL SPECIFICATION
Furnish and install as shown on plans, a cast iron wafer-type flow meter equipped with readout valves to facilitate the connecting of a differential pressure meter to the flow meter. Each readout valve shall be fitted with an integral EPT check valve designed to minimize system fluid loss during the monitoring process.

The flow meter shall be furnished with a calibrated nameplate detailing its flow range through a range of differential head pressures.

Each flow meter shall be ITT Bell & Gossett Circuit Sensor Flow Meter Model No. OP-_____.

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