

OVERVIEW

Operation

Bass Instruments averaging pitot flow sensor provides unsurpassed accuracy and reliability. With its solid, one-piece construction and bullet shape Bass Instruments makes flow measurement reliable and precise. The unique sensor shape reduces drag and flow induced vibration. The location of the low-pressure ports eliminates the potential for clogging and improves signal stability.

Application

- Boiler feedwater
- Cooling water
- Remediation
- Natural, flare, flue, stack gas
- Combustion or compressed air
- Oil flow monitoring
- Superheated, saturated or geothermal steam

Features

- Simple Installation
- High Performance
- Low Maintenance
- Long Term Stability
- Compact design
- No moving parts
- Very low pressure drop
- Can mount to existing flanges
- All welded mounting



OPERATING DATA

Working Pressure

6000 psig (413.7 Bar) maximum

Temperature Limit

815°C maximum
1200°C ops.

Enclosure

IP68

Sensor Diameter

11mm/22mm/35mm

Connection

1/2" NPT, socket weld or direct mount

Flange Size

1" for 11 mm sensor
2" for 22 mm sensor
3" for 33 mm sensor

MEASURING RANGES

Pipe Size

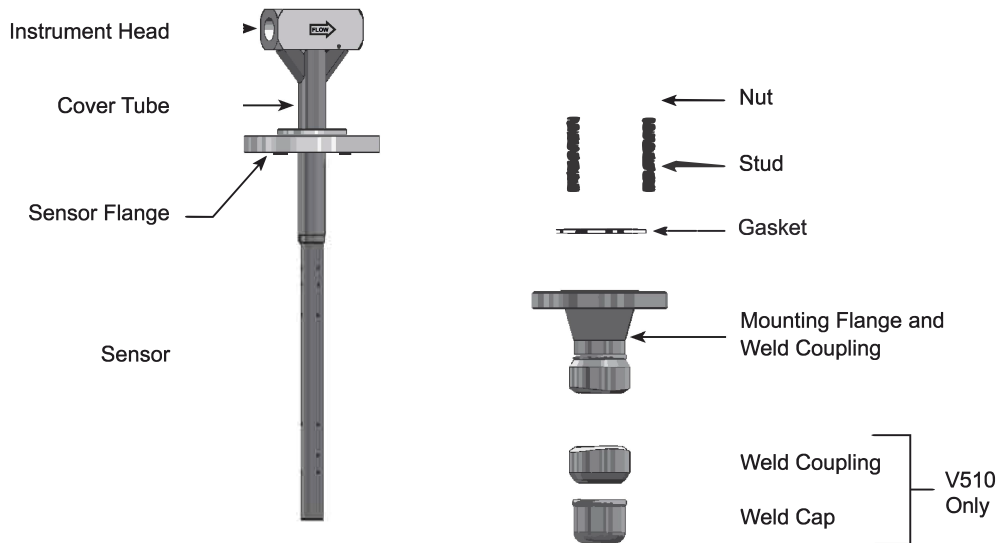
50-150 mm for 11 mm sensor
150-1200 mm for 22 mm sensor
300-5000 mm for 35 mm sensor

MATERIALS

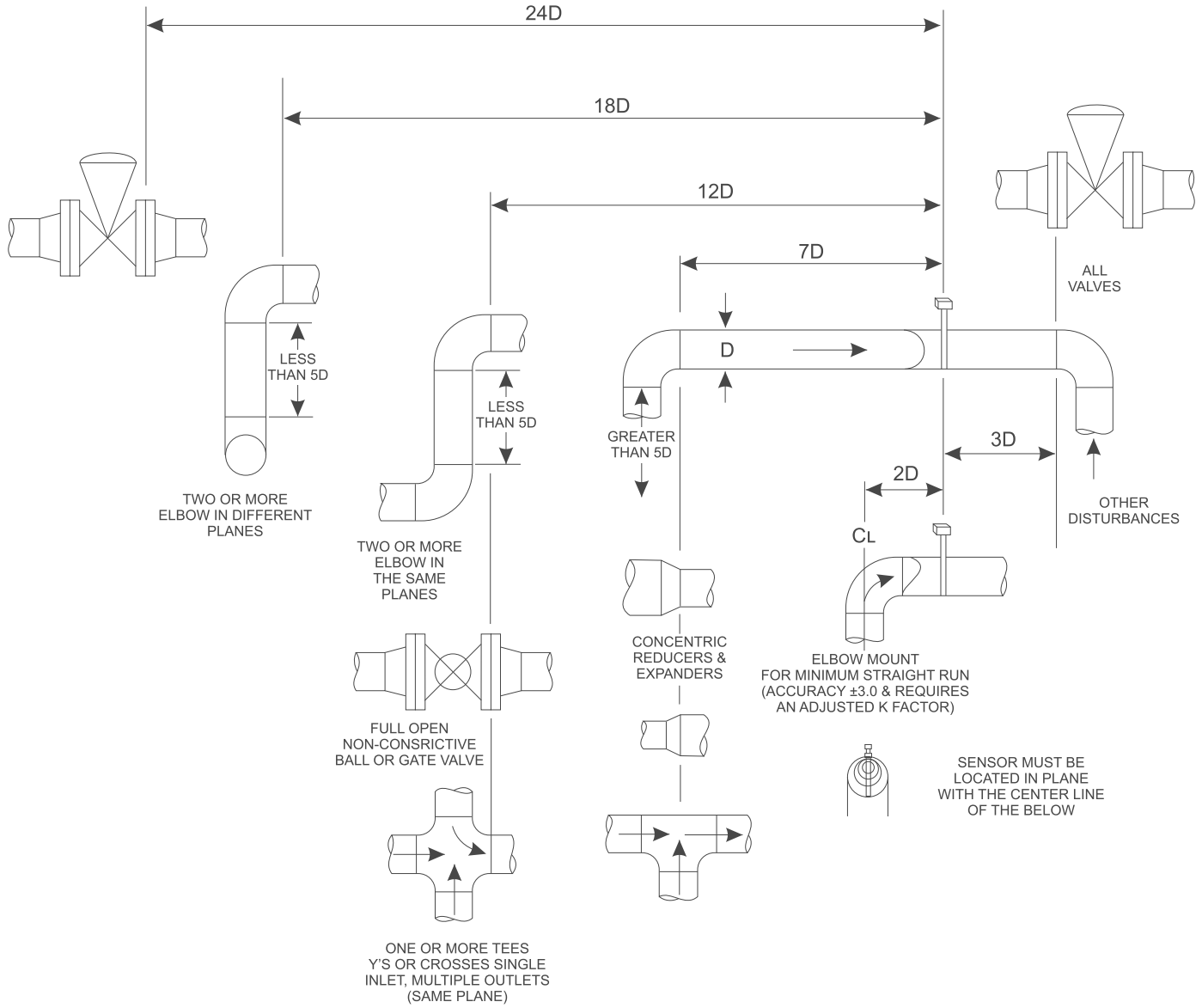
Wetted Parts

Stainless steel

TECHNICAL DRAWINGS



STRAIGHT RUN REQUIREMENTS



ORDERING

Model	
BOPT	Average Pitot Tube Flowmeter

Version	
500	Single support
510	Double support

Sensor Size Pipe Range	
1	2" to 6" (50 mm to 150 mm)
2	6" to 48" (150 mm to 1200 mm)
3	12" to 192" (300 mm to 5000 mm)

Pipe Orientation	
H	Horizontal
V	Vertical

Connection	
1	Parallel remote mount (1/2" NPT)
2	Regular remote mount (1/2" NPT)
3	RTD remote mount (1/2" NPT)
4	Valve remote mount (1/2" NPT)
5	Transmount (flanged)
6	Mass transmount (flanged)
7	Manifold (flanged)

Pressure	
S	Standard
H	High pressure 1/2" NPT
W	High pressure socket weld

Flange	
PXXX	DIN (example PN16 : P016)
AXXX	ANSI (example 150 class : A051)

Material	
C	Carbon steel
S	Stainless steel

Valves	
N	None
1	Needle remote mount
2	Gate remote mount
3	3-valve direct remote mount
4	5-valve direct remote mount

