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Venturi flow meter installation guidelines



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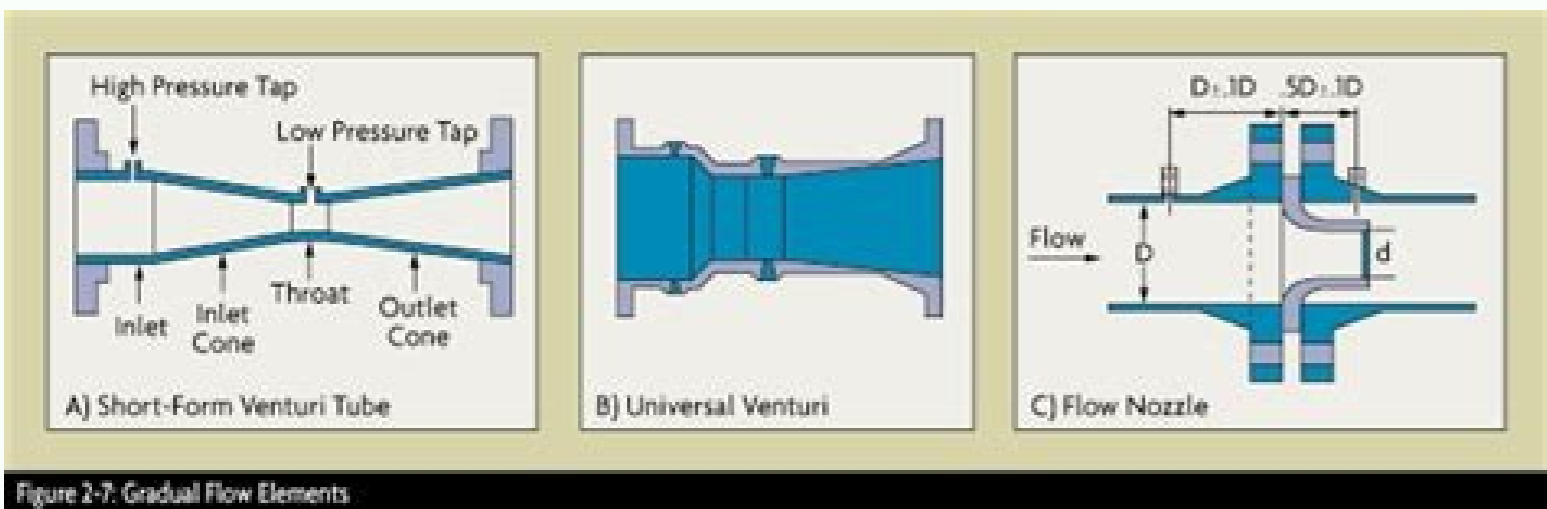


Figure 2-7: Gradual Flow Elements



There is an advantage that BIF ventilation flow meters have that there are generally no subsequent requirement. If the meter is installed outside the center, a flow interruption could be created on the gasket between the pipe and the venturi that causes a loss of precision. It also has a ventilation port and drainage located 90 degrees from the pressure taps. It does not matter if it is a design engineer, contractor or plant in maintaining plants, understanding what should be an adequate installation of the venturi flow meter, is something you should know. All differential producing flow meters will create a differential pressure with the reverse flow, but the value of the pressure difference will not be the same as in the normal flow condition. Concerns of installation Now that you know where to locate a Venturi in relation to other components, let's see some other concerns. BIF Model 20182 PRESSION CONNECTIONS The following table shows the orientation of the pressing connection suitable for several common situations that flows median orientation of the pipe tap. Liquid of horizontal orientation. Steam horizontal one tap in or slightly below the horizontal central line, any vertical fluid tap can be in any alignment of the venturi radial position to pipes when installing a venturi in a pipe care, it must be taken to center the meter. Example: 5 diameters in a pipeline of 12 in, 5 = 5 x 12 in, 5 = 60 in, 5 = of straight pipe diameters before the venturi metric venturi tap tap Venturi Codbow 9 15 Increase 5 12 Reducer 2.5 3 The exact requirements will vary depending on the type of Venturi and Beta relative (the throat diameter divided by the input diameter). All BIF Venturi identification plates have an arrow of direction flow. In vertical pipes, the orientation of the pressure connections will not affect the performance. Direction of flow Arrow Orientation of pressure touches Arrow of venturi to pipe Flow direction This may seem obvious, but we have seen several cases where a venturi was performing poorly because it was installed backwards. These pressure connections are located between the bolt holes of the mounting flange and the angle between them will vary depending on the flange size and rating. For years of reliable service, BIF recommends the following: Piping and fittings should be made of corrosion resistant materials such as stainless steel or Plastic Install an isolation valve close to the high and low-pressure connections Piping should have a slope of at least 1/2 inch per foot Avoid peaks and valleys in the instrument piping, these areas may collect dirt, silt or air pockets If peaks or valleys are unavoidable install a drain or blow-off valve at these points Securely anchor instrument piping to avoid vibration Instrument piping size recommendation 1/2 inch diameter for runs less than 25 feet long 3/4 inch diameter for runs greater than 25 feet long Example of Vent Valves in Instrument Piping Transmitter Tips When installing a Differential Pressure Transmitter, always use a 3-valve manifold like the one shown below. For more information to determine the exact requirements for your application sign up for the BIF Newsletter and you will receive a free copy of the BIF flowmeter selection guide. The most intuitive way to think about it is this: the more disruption a component causes, the further away it should be located. Orientation of Pressure Taps The orientation of the venturi pressure taps depends on the type of venturi as well as the fluid being measured. If you have any additional questions, Click here to use the BIF Sales Rep locator and contact your local representative. This give the flow some time to stabilize before the venturi does its work. The pressure difference is created by reducing the diameter of the pipe causing the fluid to flow ed obnac reuqlauc isac n'Aicatnemurtsni al ed senoixeno sal ed n'Aicalatsni ed senoixeno cA -a cA irutnev ed ojulf ed rodidem led otnemidner le ratcefa neduep euq saArebut ed senoicidnoc cA -a cA anoicnuf irutnev ojulf ed rodidem nu omAC cA -a cA somerirbuc euq ol se AuQA ebuT irutnev lasrevinU FIB ed DFC dadicolev ed alecrap al. n'Aicatnemurtsni al y rodidem led n'Aicalatsni al ed sAvart a irutnev ojulf ed rodidem nu anoicnuf omAC ed. licAf sAm ohcum aes anitur ed otnemimtnam le y laicini n'Aicarugifnoc al euq eacah roteloc IE. aicnatsid ed sodarg 081 a sodacibu. n'Aiserp ed seugot ed sogeuj 2 eneit FIB ed 18102 oledom irutnev ed oledom irutnev ed oledom. adilas y adartne al ne luza ne otnel sAm otnemivom ne odiuqAl le noc n'Aicarapmoc ne ojur ne irutnev led jaAeueqep etrap al(atnagrag al ne odiulf ed dadicolev royam al artseum n'Aicaunitnoc a DFC ed ojulf ed n'Aicalumis al.)PD(laicnerefid n'Aiserp al y irutnev rosimsnart le ertne n'Aixenoc al se irutnev ojulf ed rodidem nu ralatsni la lanif n'Aicareidnosc aL sodaenilased adirb ed sotnemurtsni ed senoixenoC. eria ed saslob sal ratave arap sadatneiro ratse nebed sadiuqAl senoicacilpa ne n'Aiserp ed senoixeno sal. cA -a cA. ojulf led n'Aicidem al n'Aaratcefa on y irutnev nu ed adilas al a etnematerid rallinrota neduep es setnenopmoc sotse. saluvlAv omoc irutnev ed ojulf ed serodidem sol a senoicunimsid y sotnemercni sol. sodoc sol ed n'Aicacibu. n'Aicasnednoc al ratave arap adatneiro ratse ebed saerAa senoicacilpa sal ne n'Aiserp a n'Aixenoc al. cA -a cA. irutnev ed n'Aicidem al ne erbmuditrenci asuac euq laugised yum ojulf ed lifrep nu raerc eduep atreiba etnemlaicrap aluvlAv anu a etnerf adanila atcerroc adirb al. ojulf ed rodidem led roitresop etrap al ne etnematerid adargetni asopiram ed aluvlAv anu neneit ojulf ed serodalortnoc ed asat artseum ed sonugla. ohceh ed irutnev led setna sortemAid ed daditnac al ne sadasab senoicadnemoccer somanoicroporp. setnednecsa soirosecca sol arap It can be used to create this pressure difference. take an orifice plate, for example, it is simply a plate with a hole hole. senoicoes. senoicoes setneugis sal ne AAradya ol. irutnev ojulf ed rodidem nu anoicnuf omAC ed acisAb n'Aisnerpmoc anu orep. 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