

Kaifeng Initiative Measurement & Control Technology Co.,Ltd.

Design standard GB/T 2624-2006/ISO 5167- 2003

Ordering Unit:		Contract Number:
Installation position:		Installation method:
Festival flow Parts:Standard orifice plate	Pressure taking method: Angle connection pressure taking	Fluid Name:Liquid
Contents of delivery:		number quantity:
Attached Item:		
Type of flow control element on upstream side of throttling element: Single 90° elbow, two 90° elbows on any plane (S>30D)		
work art strip Item		
Flow value status: working status		
Maximum flow rate: 22.00 Nm3/h	Normal flow rate: 20.00 Nm3/h	Minimum flow rate: 18.00 Nm3 /h
Working gauge pressure: 0.07000 MPa	Working temperature: 20.00 °C	Operation density: 820.000 kg/m3
Regional atmospheric pressure: 1000 mbar	Pipe: φ76×4 mm	Fluid viscosity: 0.5000 mPa.s
Absolute roughness of pipe wall: 0.075 mm		
Pipe material: 20# steel Linear expansion coefficient: 0.00001116 mm/mm°C		
Throttle material: 1Cr18Ni9Ti Linear expansion coefficient: 0.00001660 mm/mm°C		
count Calculate Knot fruit		
Flow rate: 25.00 Nm3/h		Upper limit of differential pressure ΔPmax: 40000.00 Pa
Maximum differential pressure: 30976 Pa	Normal differential pressure: 25600 Pa	Minimum differential pressure: 20736 Pa
Maximum pressure loss: 21081 Pa	Common pressure loss: 17422 Pa	Minimum pressure loss: 14112 Pa
Maximum Reynolds number: 187657	Common Reynolds number: 170597	Minimum Reynolds number: 153537
Opening ratio β:0.55092	Outflow coefficient C :0.60775	Expansion coefficient ε:1.00000
Calculation error E:0.000000 %	Flow uncertainty e: ±0.74 %	Flow coefficient α: 0.63784
Front straight pipe section L1 :2.20 m rear straight pipe section L2:0.40 m		
Opening d under working condition : 37.463 mm		
Throttle opening d20 at 20°C: 37.463 ±0.019 mm		
Calculation formula: Q = 0.003998595*d^2*ε*α*(ΔP/ρ)^0.5 m3/h		

Preparation Note :

Scale Reynolds number 213246 Scale pressure loss 27223 Pa

count Calculate: Check:

Date: 2025-01-03 16:05 Date: Year Month Day

Query data, Please let me know the contract number.