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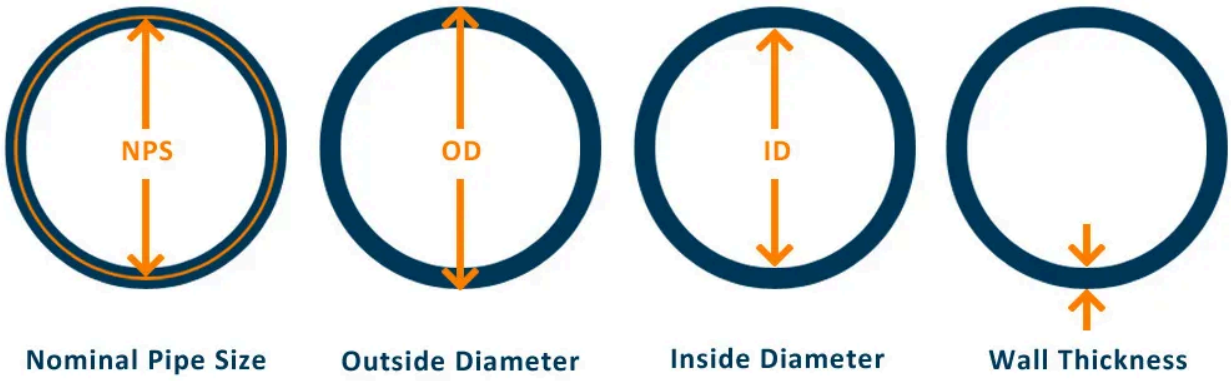
NPS Pipe Size: Meaning, Standard Dimensions & Applications Explained



If you're into pipeline design, oil and gas, water supply, or overwhelming businesses, you must have come over the term NPS pipe size frequently estimate habitually.

NPS stands for Nominal Pipe Size, and it's a standardized way to refer to pipe measurements, regardless of divider thickness or fabric, in North America and numerous other nations.

What Exactly is NPS?

NPS is a set of measurements (like 1/2", 1", 2", 6", 24") that indicates the internal diameter across a pipe.

It’s a nominal or adjusted number, not an correct estimation, which implies 2" NPS pipe might have an real inside dia of 2.07" or 1.97" depending on its plan.

Why NPS Pipe Size Is Important

✅ Standardization:
NPS lets engineers, providers, and fabricators communicate measurements without confusion.

✅ Plan:
Utilizing NPS, you'll coordinate fittings, valves, flanges, and components precisely over diverse materials and plans.

✅ Compatibility:
Since NPS could be a all inclusive “size name”, you'll discover components to coordinate your pipeline rapidly and effortlessly.

NPS vs Outer Diameter (OD)

Here’s a key point numerous discover befuddling:

NPS isn't the actual external or internal dia of a pipe. Instead, it’s a convenient name.

➥ NPS 1 pipe has an OD of 1.32" (33.4 mm).
➥ NPS 2 pipe has an OD of 2.38" (60.3 mm).
➥ NPS 6 pipe has an OD of 6.63" (168.3 mm).
➥ NPS 24 pipe has an OD of 24" (609.6 mm).

NPS and Schedule, Why It Matters

NPS indicates measure, but pipe divider thickness is characterized by its plan.

For a given NPS, a better plan implies thicker divider and littler bore, whereas a lower plan implies more slender divider and bigger bore.

For example:

➥ NPS 2 Plan 40: OD ≈ 2.38" Divider thickness ≈ 0.15" Bore ≈ 2.07"
➥ NPS 2 Plan 80: OD ≈ 2.38" Divider thickness ≈ 0.22" Bore ≈ 1.97"

Applications of NPS Pipe Size

✅ Development: Water, steam, and deplete lines in buildings.
✅ Oil and Gas: Pipelines for oil, characteristic gas, and petroleum items.
✅ Petrochemical: Transports chemicals securely over preparing plants.

✅ Control Plants: Carry steam, water, and other liquids beneath weight.
✅ Fire Assurance: NPS measurements coordinate industry guidelines for sprinkler and fire-fighting frameworks.

The NPS pipe size estimate may be a very helpful, and it is a standardized way to distinguish and coordinate pipe measurements over diverse businesses and applications.

It centers on a common naming to rearrange obtaining, planning, and support, notwithstanding of fabric, divider thickness, or producer.

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