

NOH

Non-Obstructing Heater

The Non-Obstructing Heater (NOH) is a rugged DSI heater suited to handle even the toughest abrasive materials, all while producing low pressure drop and unrestricted flow.

HIGHLIGHTS:

Durable & Expansive

Viscous slurries, particulate-filled products, abrasive/corrosive substances, stringy products, & inline water heating abilities – all are possibilities with the NOH.

Efficient & Capable

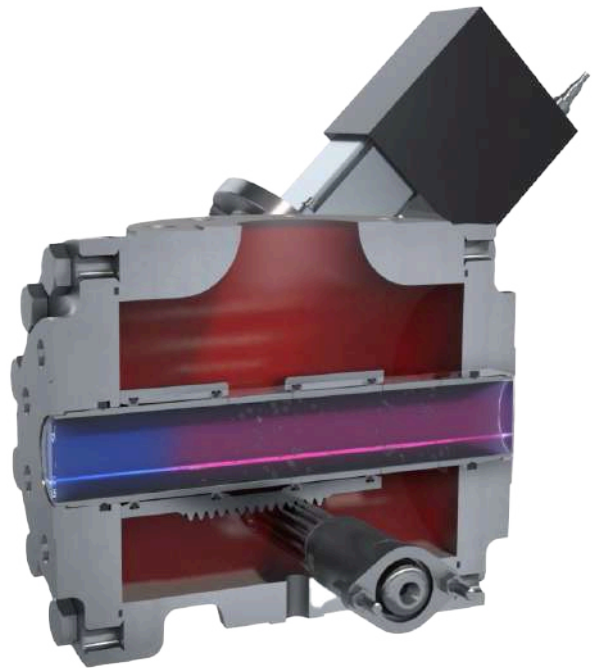
Utilizing a steam connection larger than the process connection, the max diffuser is sized to accommodate the full flow available from the steam piping.

Compact & Powerful

Ranging from 2" to 12" [DN50-DN300] sizes, volume capabilities reach all the way to 6,900 GPM [up to 1,567.2 m³/hr].

Quiet

Designed with noise output in mind, hearing the heating process will be a thing of the past. A quiet, noise-minimizing design was incorporated into the NOH.



Benefits

- Virtually zero pressure drop
- Unrestricted flow
- Balanced, noise-cancelling design
- Wide-ranging heating capacity
- Uniform fluid heating
- Effective seal construction for near-zero steam shutoff (CL. IV)
- Adaptable, tight controlling servo-motor driven control

NOH

Controls

NOH can be locally controlled from the panel or from DCS. For DCS integration, either Ethernet IP, Modbus TCP or limited analog and digital must be utilized.

Digital Inputs
Flow enable (flow switch)

Analog Inputs
Temperature discharge (TC / RTD) Spare (4-20mA)

Digital Outputs
Alarms to DCS

Analog Outputs
Two spare (4-20mA)

I/O Options
Larger panel size and additional analog inputs/outputs are available as needed

Technical Information

Pressure & Temperature
Max Pressure - 300 PSIG / 20.7 Barg Max Temperature - 450°F / 232°C

Product Inlet / Outlet & Steam Flange
300# raised face flanges designed (per ANSI B16.5) with lugged connections

Sizing & Processing Parameters

2" - 12" / [DN50-DN300]

	NOH2		NOH4		NOH8		NOH12	
Steam Inlet (in. / mm)	3.0	76.2	6.0	152.4	8.0	203.2	12.0	304.8
Steam Drain (in. / mm)	0.5	12.7	1.0	25.4	1.0	25.4	1.0	25.4
Estimated OAL Length (in. / mm)	12.0	304.8	19.0	482.6	24.0	609.6	33.5	850.9
Estimated CL to Steam Flange (in. / mm)	5.0	127.0	6.5	165.1	8.0	203.2	11.66	296.2
Min. Flow (GPM / m ³ /hr)	30.0	6.8	110.0	25.0	455.0	103.4	1,035.0	235.1
Max. Flow (GPM / m ³ /hr)	175.0	39.7	735.0	167.0	3,053.0	693.4	6,900.0	1,567.2

Metric measurements listed in grey columns