



# DEFLAGRATION FLAME ARRESTER

MODEL 7628



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The Groth 7628 model is designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition which provides increased fire protection and safety.

## Technical Details

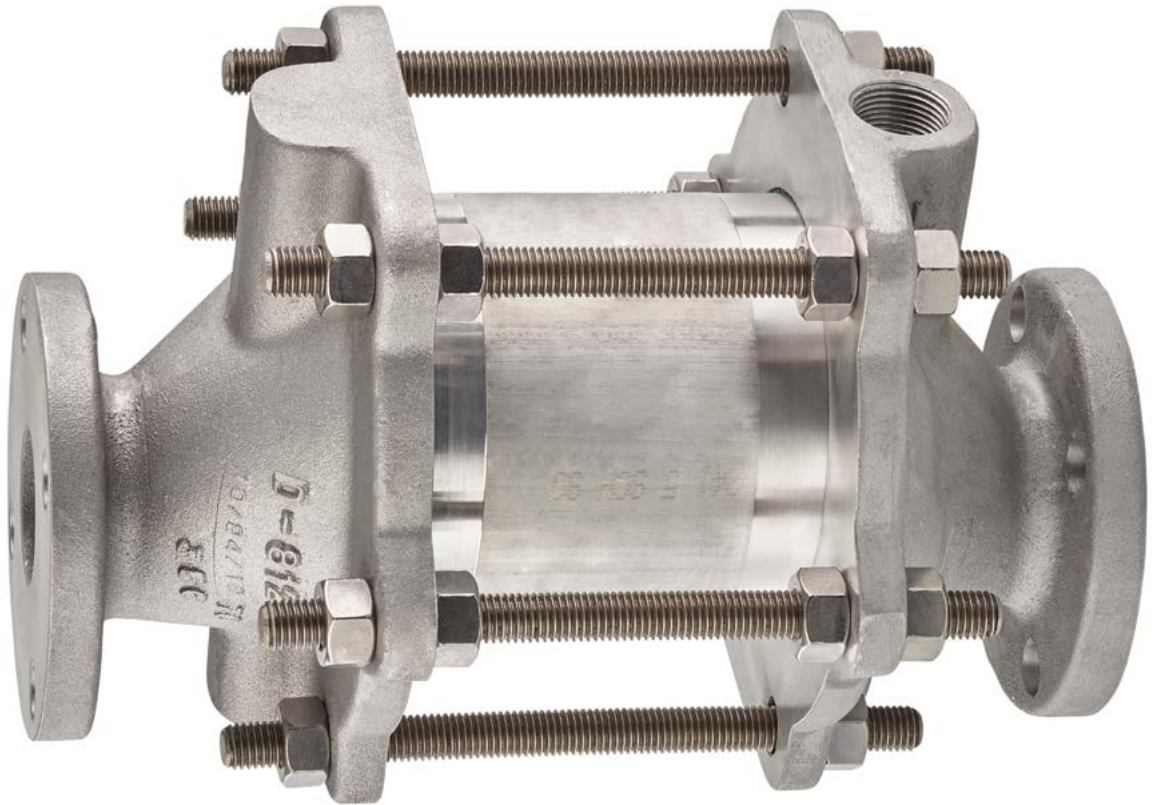
- Sizes: 2" (DN50) through 12" (DN300)
- Material: Aluminum, Carbon Steel, Stainless Steel
- Flame Element Material: 316L Stainless Steel
- Operational Temperature  $\leq$  140 F (60 C)

## Features

- Horizontal installation
- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Spiral-wound, crimped ribbon flame element
- Modular design allows easy and cost-effective flame bank maintenance
- Compact design keeps weight and installation cost down
- Eccentric design minimizes liquid accumulation

## Options

- Exterior painting or coating
- DIN or ASME/ANSI drilling
- Tapped drain and instrumentation ports

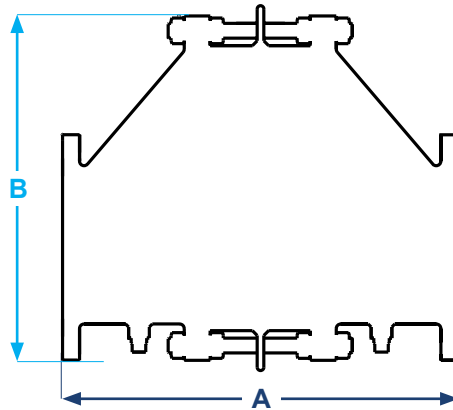


# SPECIFICATIONS

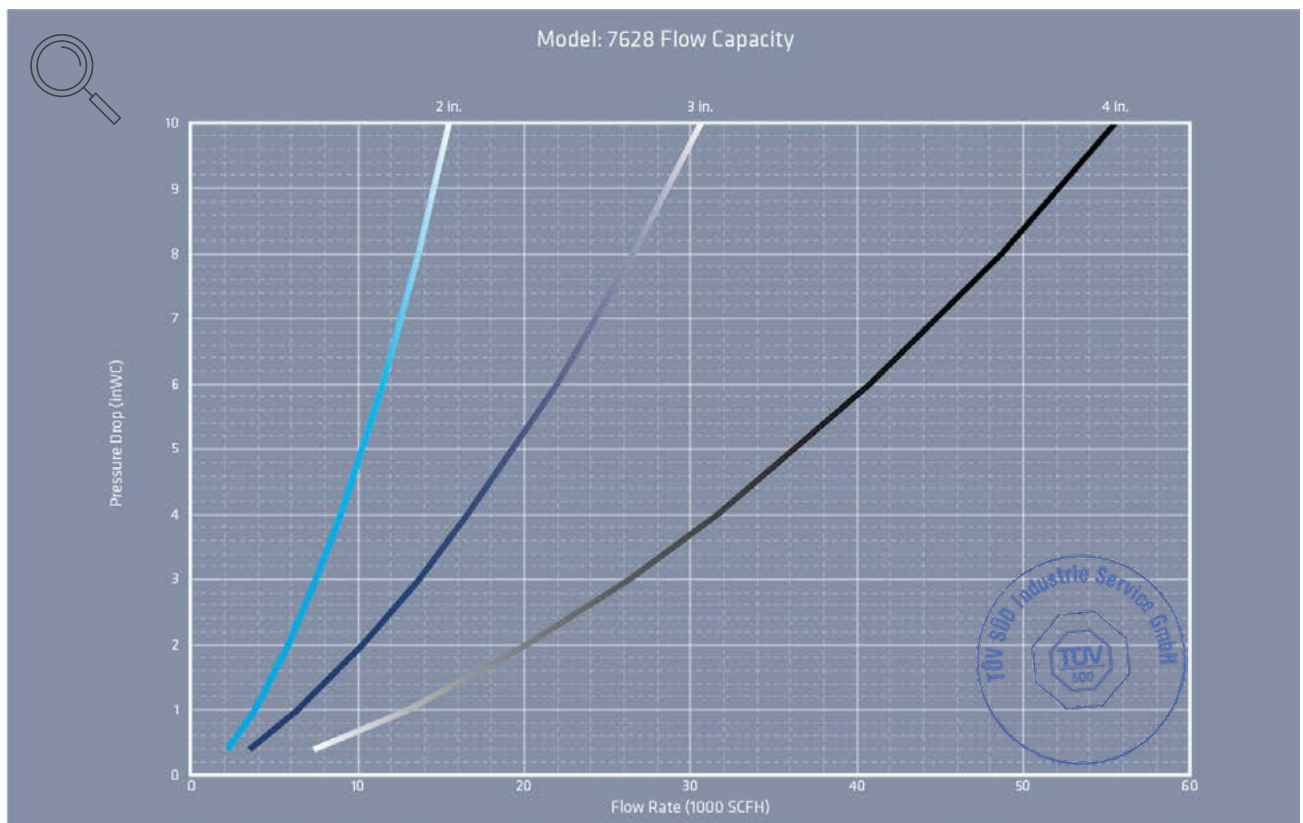
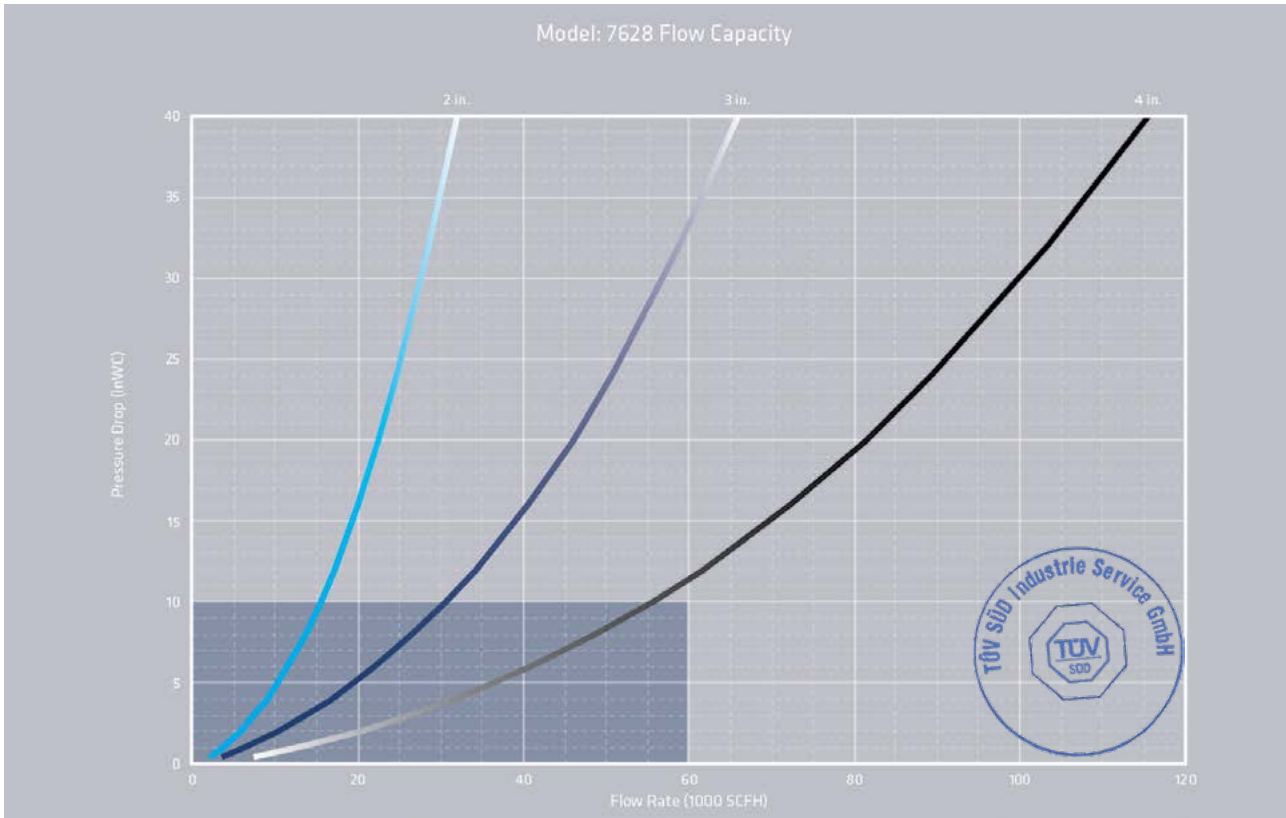
End-of-Line	In-Line
Flanged Outlet with or without Discharge Piping	
<ul style="list-style-type: none"> <li>• Gas Group: NEC D, IEC IIA</li> <li>• Operating Temperature <math>\leq 140^{\circ}\text{F}</math> (<math>60^{\circ}\text{C}</math>)</li> <li>• Pre-Ignition Pressure = Atmosphere</li> <li>• Discharge Piping Length <math>\leq 10</math> pipe diameters</li> </ul>	<ul style="list-style-type: none"> <li>• Gas Group: IEC IIA1, Methane (includes most Biogas applications)</li> <li>• Operating Temperature <math>\leq 140^{\circ}\text{F}</math> (<math>60^{\circ}\text{C}</math>)</li> <li>• Pre-Ignition Pressure <math>\leq 1</math> psig</li> <li>• Run-up Length <math>\leq 50</math> pipe diameters (2")</li> <li>• Run-up Length <math>\leq 20</math> pipe diameters (3")</li> <li>• Run-up Length <math>\leq 10</math> pipe diameters (4" – 12")</li> </ul>

Size* In (mm)	A Length In (mm)	B Height In (mm)	Approx Ship Weight Aluminum Lbs (kg)
2 (50)	15 (381)	9.50 (241)	18 (8)
3 (80)	17 (431)	11 (279)	25 (11)
4 (100)	18.75 (476)	12.50 (318)	40 (18)
6 (150)	21 (533)	16.50 (419)	70 (32)
8 (200)	26 (660)	20.50 (521)	135 (61)
10 (250)	30 (762)	24.50 (622)	235 (107)
12 (300)	32.50 (826)	28.50 (724)	345 (156)

\* Larger sizes available on special application.  
 †150# ANSI drilling compatibility, F.F. on aluminum and R.F. on carbon steel and stainless steel alloys.  
 ◇Pneumatic tested to 15 psig as standard.

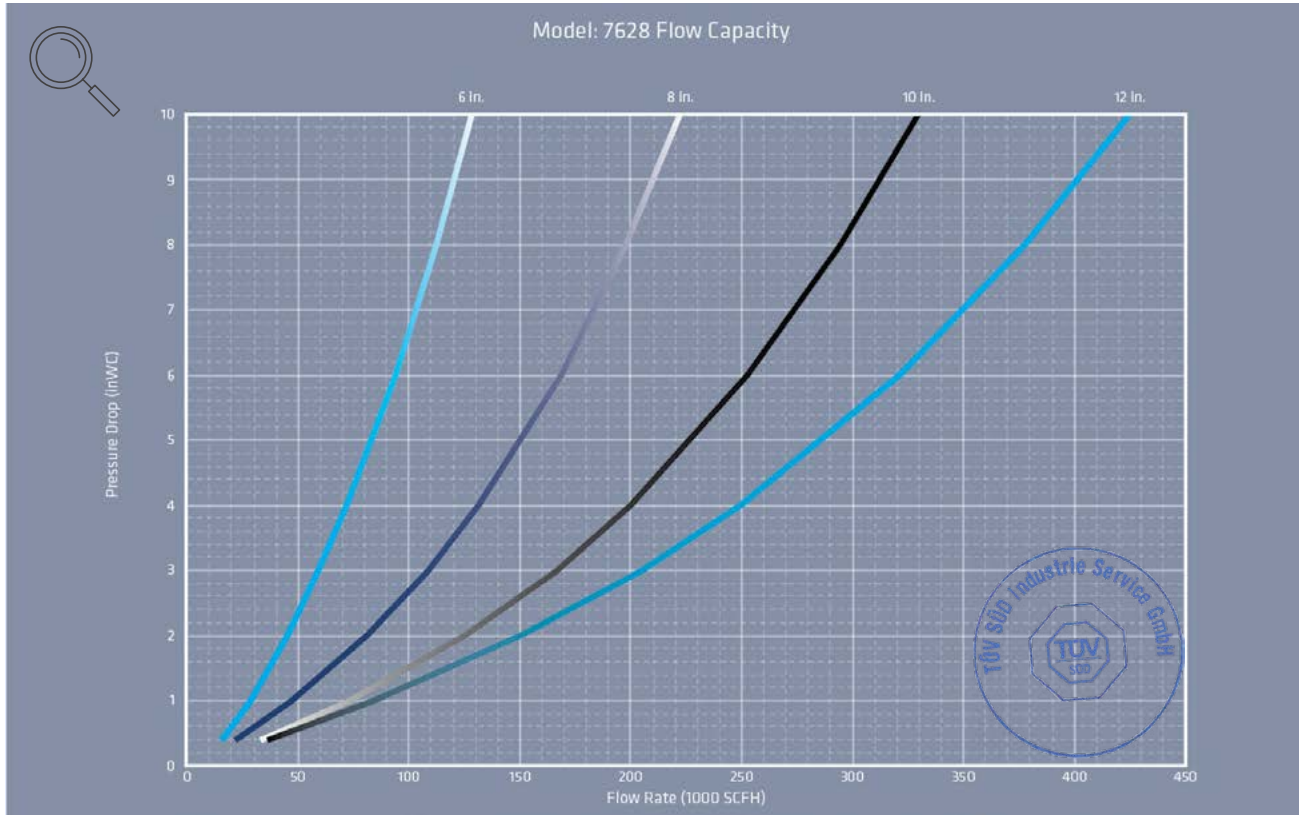
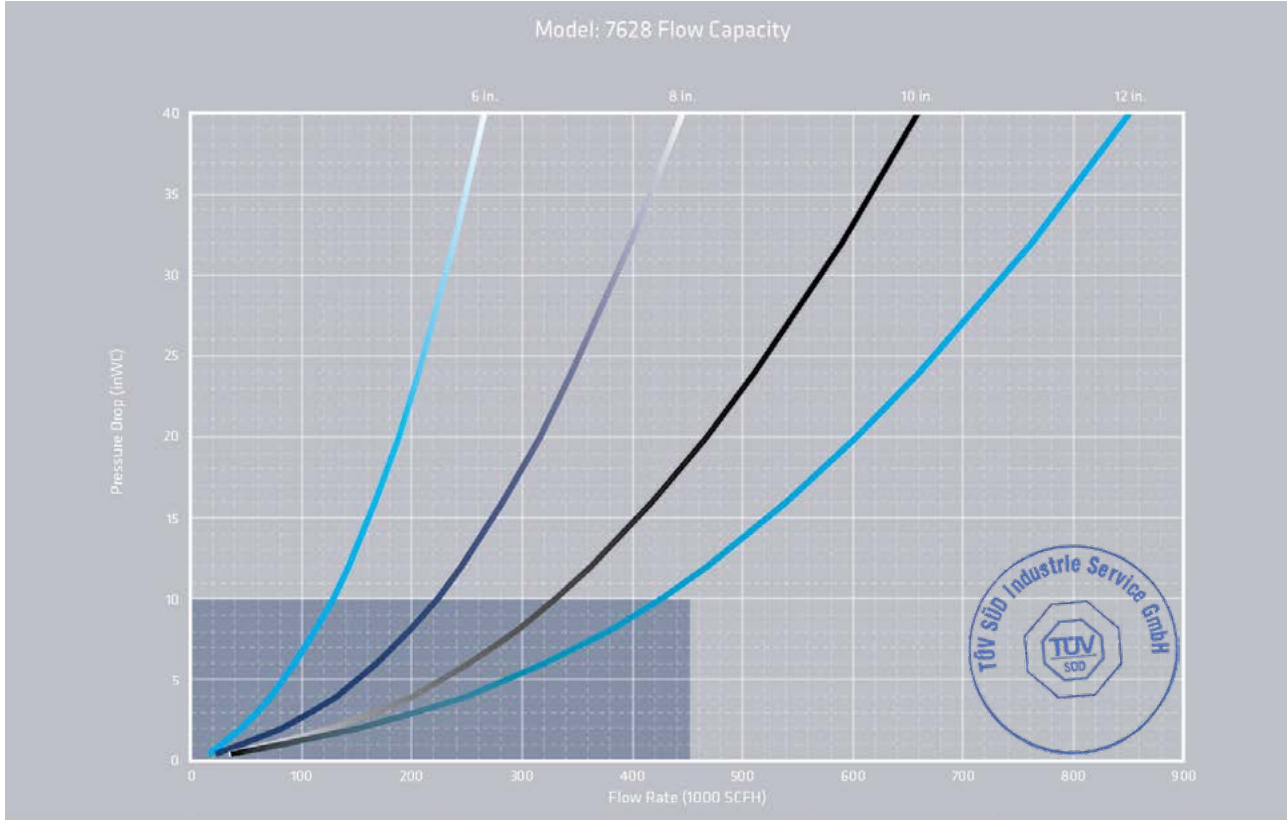


# FLOW CAPACITY



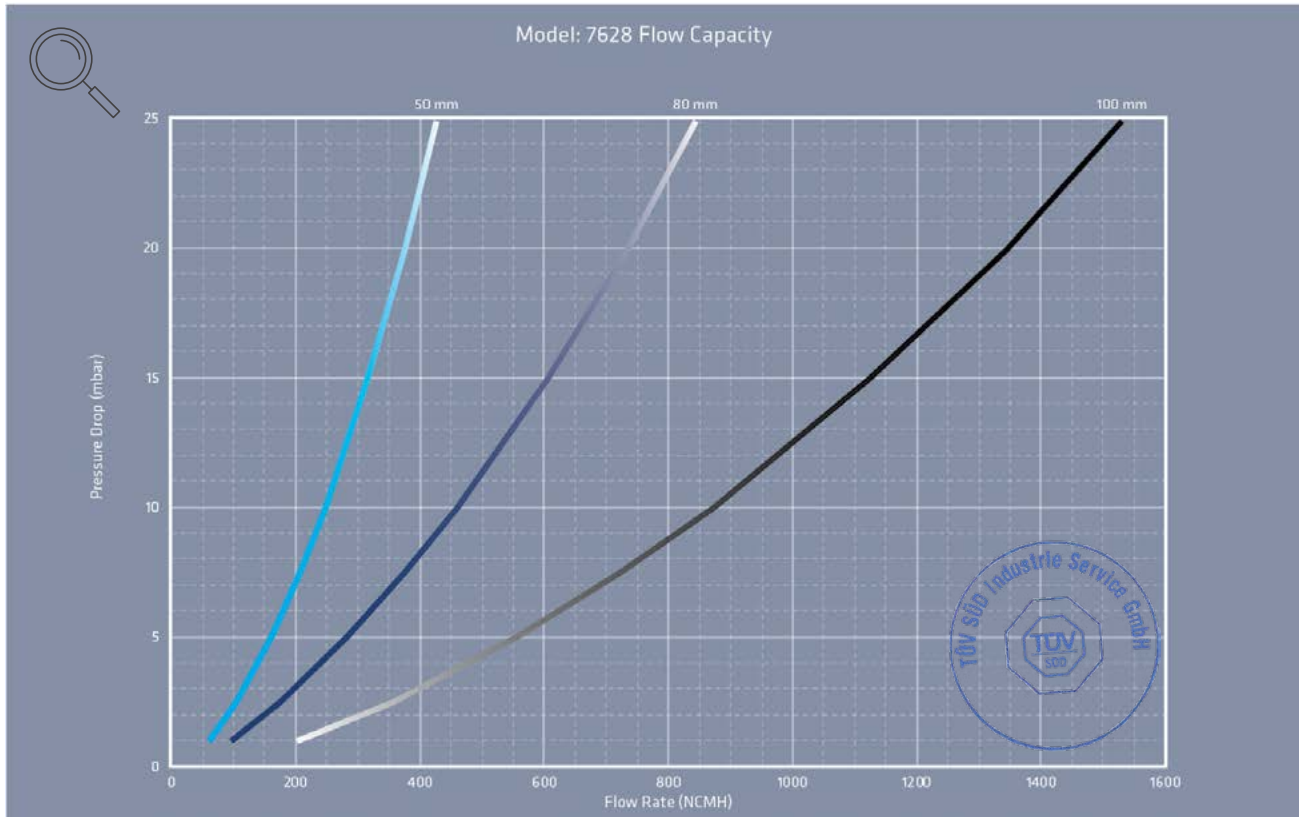
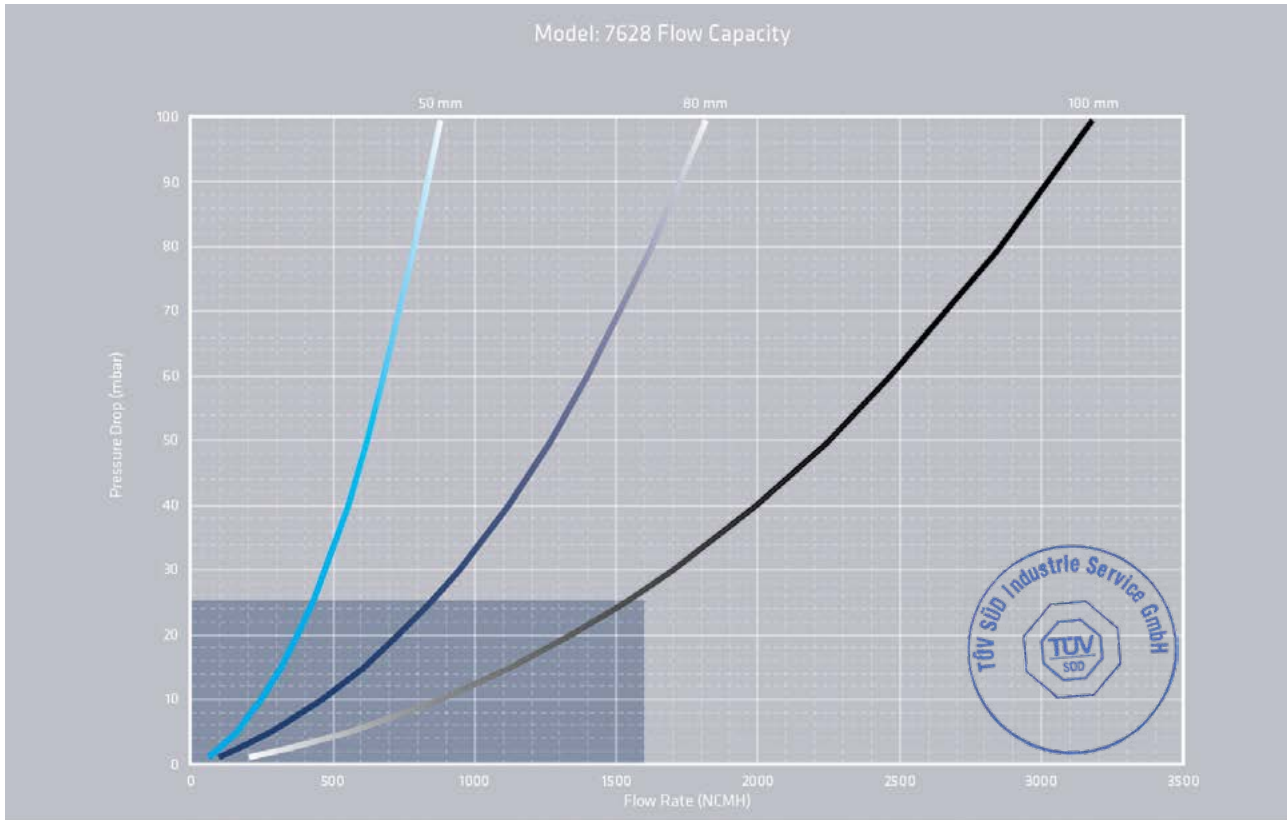
- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results have been reviewed and certified by TÜV SÜD.
- Flow data are for in-line mounting and does not include entrance losses or exit losses.
- Flow values based on air at 60°F venting to atmospheric pressure of 14.6959 psia

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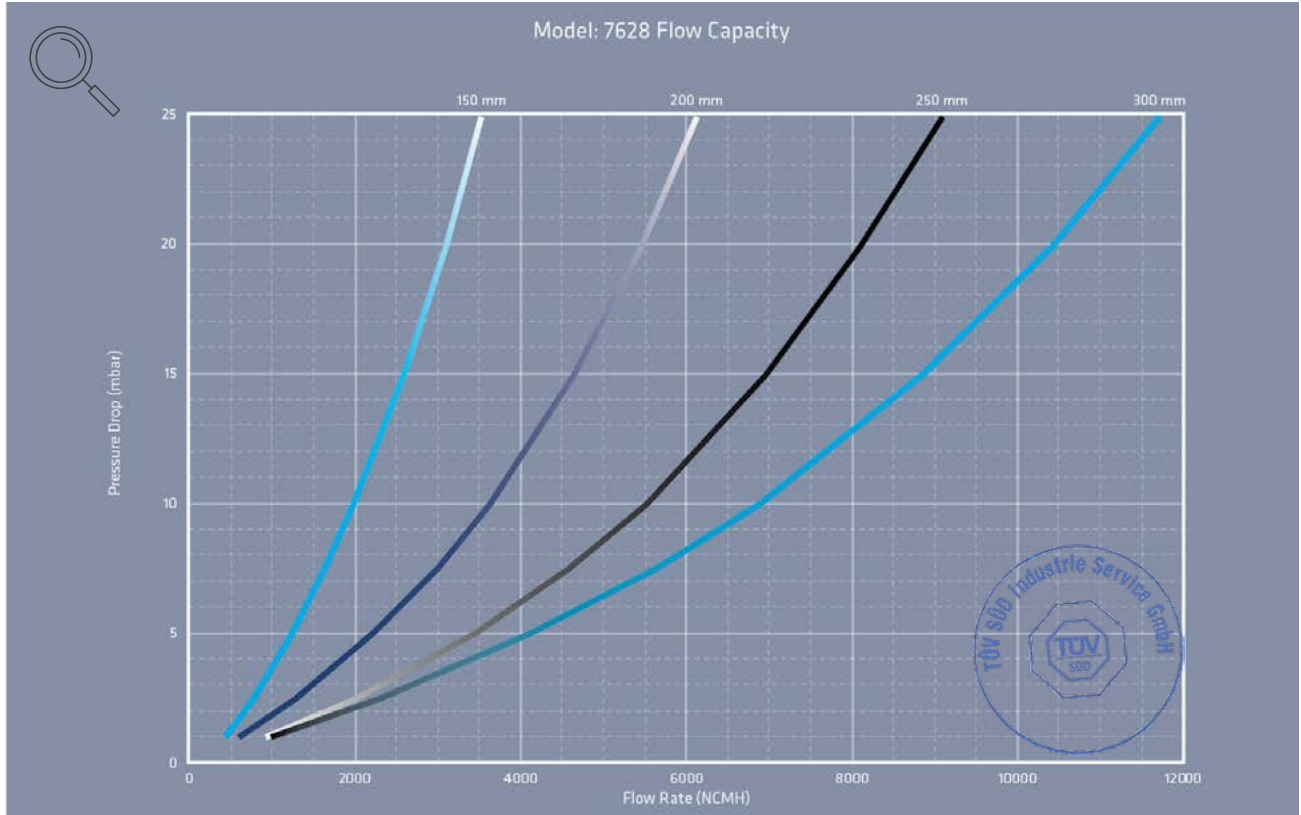
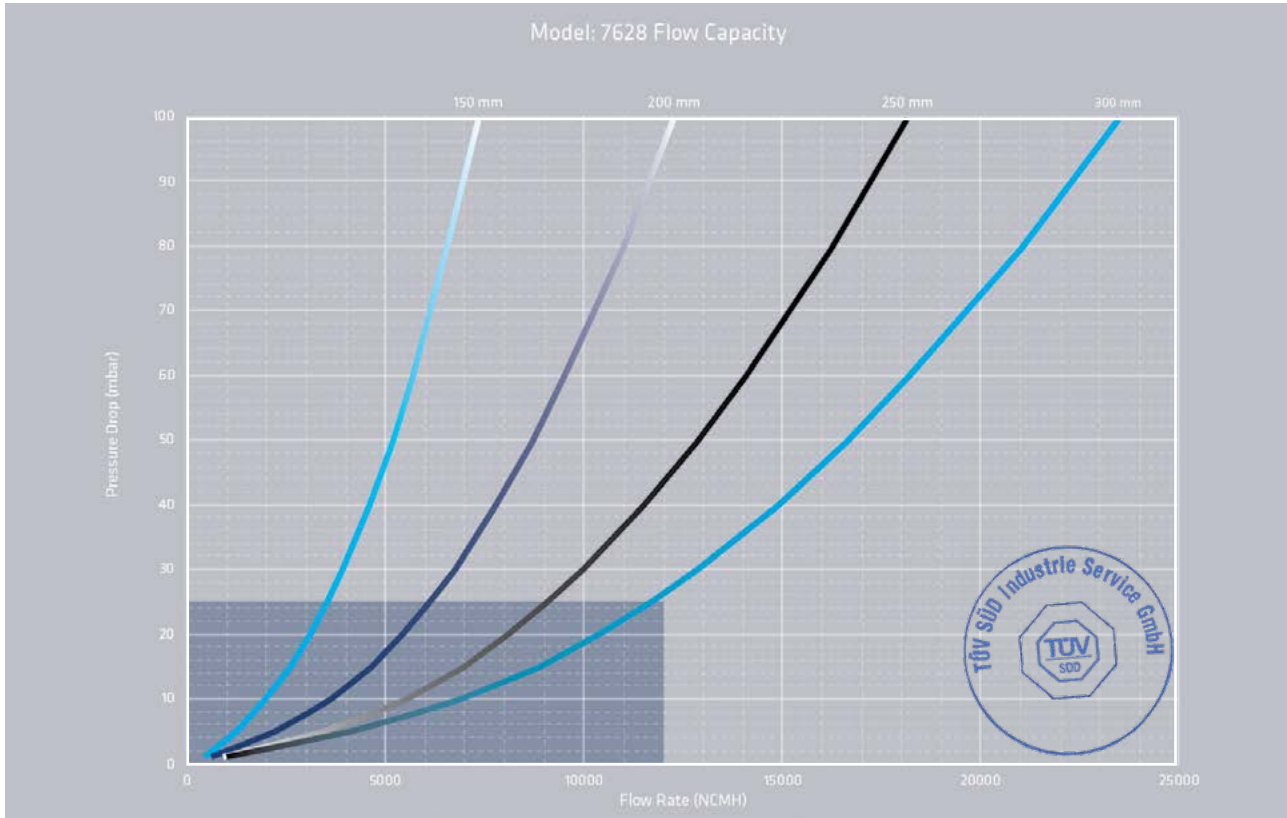
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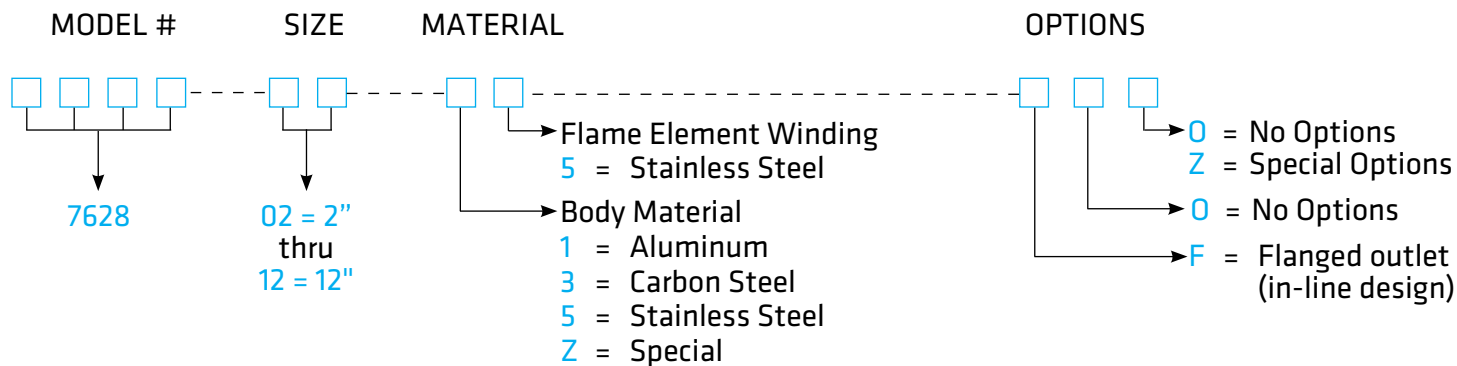
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# HOW TO ORDER

For easy ordering, select proper model numbers



## Notes

- Include model number and setting when ordering.
- For special options, consult factory.

## Example

7 6 2 8 - 0 4 - 1 5 - F 0 0

Indicates a 4" Model 7628 with Aluminum Body, Aluminum Flame element winding, Flanged outlet, no Jacket and no other options.



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