

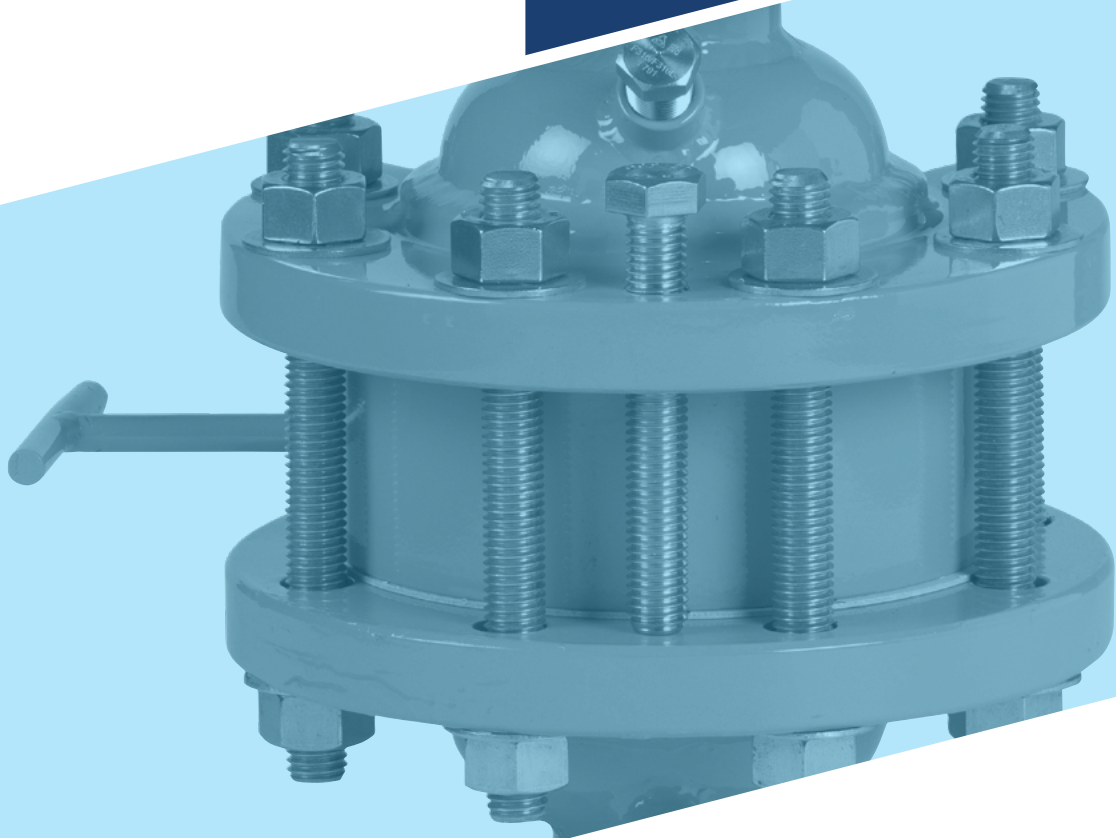


®

CORPORATION

FLAME ARRESTER

MODEL 7758A



MODEL 7758A

The Groth Model 7758A Deflagration & Detonation Flame Arrester inhibits flame propagation in gas piping systems. The design of the flame arrester makes it ideal to protect liquid storage tanks containing both NEC Group D and Group C vapors (IEC Class IIA and IIB1 through IIB3 vapors).

Technical Details

- Sizes: 2" (DN50) x 4" (DN100) through 12" (DN300) x 30" (DN750)
- Housings Materials: Carbon Steel, Stainless Steel, Alloy C276
- Element Materials: Stainless Steel, Alloy C276 or other corrosion resistant alloys
- Consult the factory for specific information for pre-ignition pressures by size and Stable/Unstable detonations
- Vertical or horizontal installation
- In-Line or End-of-Line deflagrations
- Pre-ignition system temperatures -4 to 140°F (-20 to 60°C)
- Wafer mesh element is standard

Features

- Compact with high flow capacity and low pressure drop
- Elements are easily removed in-line for cleaning and maintenance

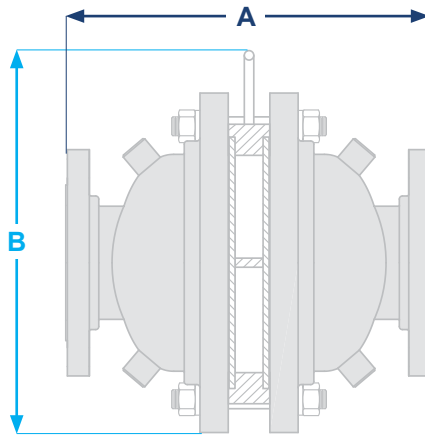
Options

- Sensor ports
- Large inspection and cleaning ports
- Swing bolts for fast element removal
- Factory installed thermocouples for flame sensing

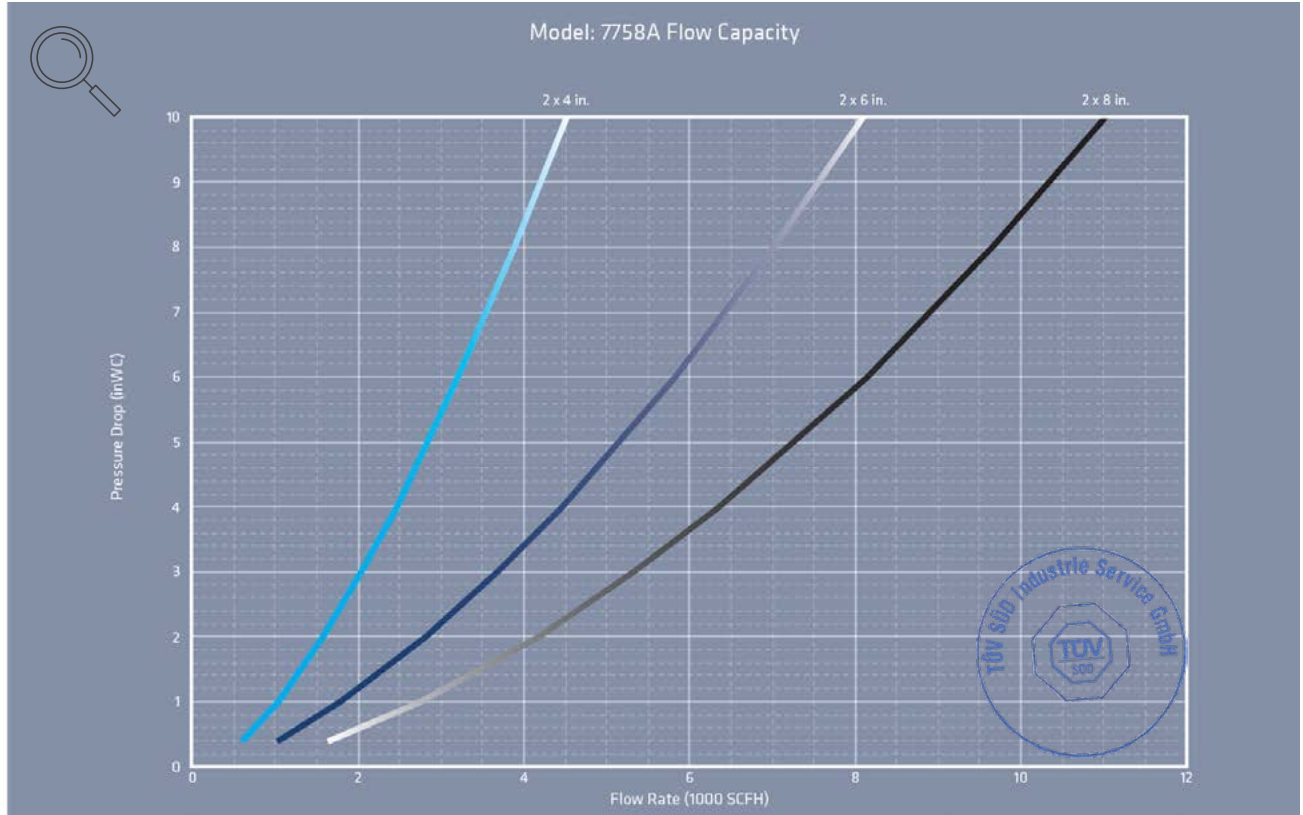
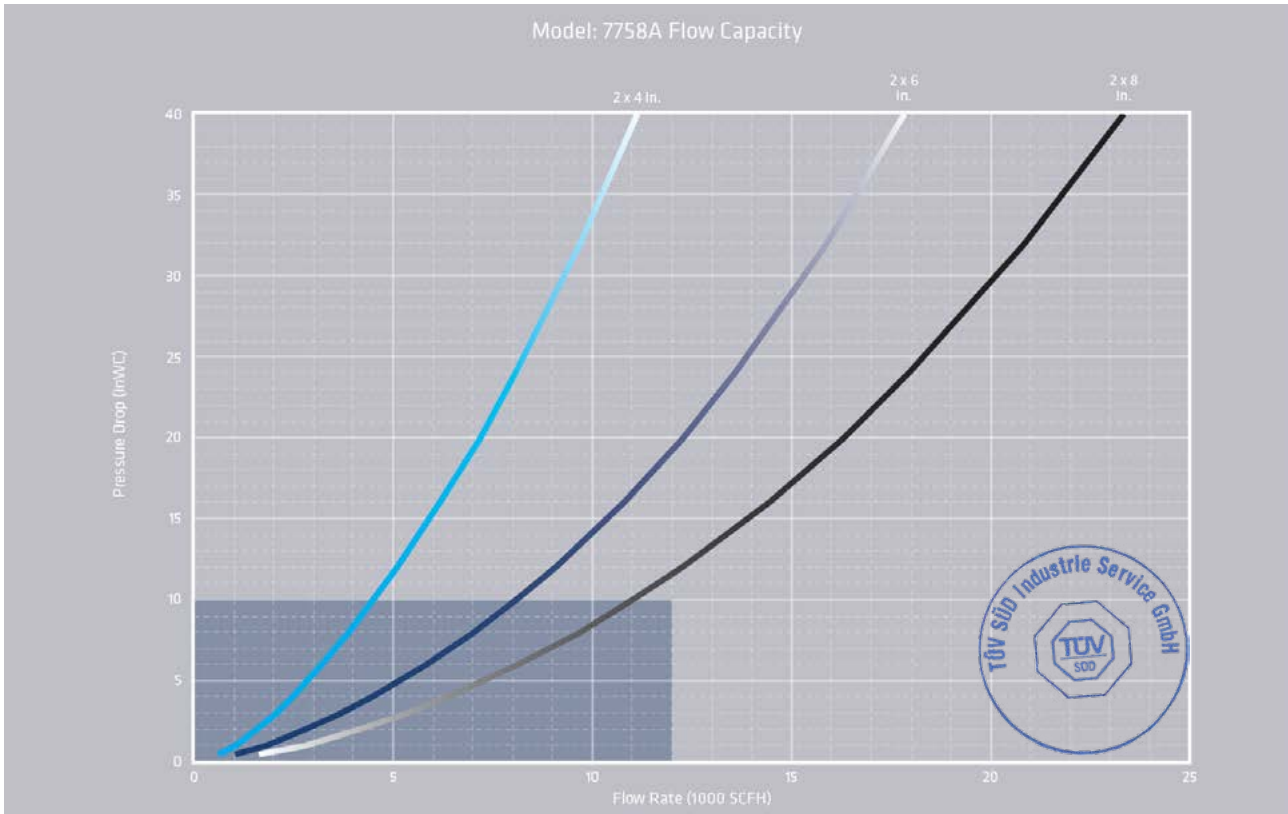


SPECIFICATIONS

Flange Size* Inches (mm)	Element Size Inches (mm)	A Length Inches (mm)	B Height Inches (mm)	Maximum Burn Time Minutes	Maximum Pre-Ignition Pressure			Approx Ship. Weight Lbs (kg)
					Deflagrations psia (bara)	Stable Detonations psia (bara)	Unstable Detonations psia (bara)	
2 (50)	4 (100)	12 (305)	11 (279)	30	19.7 (1.36)	19.7 (1.36)	19.7 (1.36)	54 (25)
2 (50)	6 (150)	12.75 (324)	11 (279)	30	19.7 (1.36)	19.7 (1.36)	19.7 (1.36)	77 (35)
2 (50)	8 (200)	15.50 (394)	15.50 (394)	5	19.7 (1.36)	19.7 (1.36)	19.7 (1.36)	114 (52)
3 (80)	6 (150)	12.75 (324)	11 (279)	30	19.7 (1.36)	19.7 (1.36)	19.7 (1.36)	88 (40)
3 (80)	8 (200)	16 (406)	15 (381)	5	19.7 (1.36)	19.7 (1.36)	19.7 (1.36)	125 (57)
3 (80)	12 (300)	18.31 (465)	19 (483)	5	18.0 (1.24)	18.0 (1.24)	18.0 (1.24)	269 (122)
4 (100)	8 (200)	16.75 (425)	15.25 (387)	5	19.7 (1.36)	19.7 (1.36)	19.7 (1.36)	134 (61)
4 (100)	12 (300)	19 (483)	19 (483)	5	18.0 (1.24)	18.0 (1.24)	18.0 (1.24)	275 (125)
4 (100)	20 (500)	23.69 (602)	27.50 (699)	30	17.2 (1.188)	17.2 (1.188)		645 (293)
6 (150)	12 (300)	18.31 (465)	19 (483)	5	18.0 (1.24)	18.0 (1.24)	18.0 (1.24)	287 (130)
6 (150)	20 (500)	23.69 (602)	27.50 (699)	30	17.2 (1.188)	17.2 (1.188)		657 (299)
6 (150)	26 (650)	29.06 (738)	34.25 (870)	30	17.2 (1.188)	17.2 (1.188)		1062 (483)
6 (150)	30 (750)	32.31 (821)	38.75 (984)	30	17.2 (1.188)	17.2 (1.188)		1407 (640)
8 (200)	20 (500)	23.69 (602)	27.50 (699)	30	17.2 (1.188)	17.2 (1.188)		677 (308)
8 (200)	26 (650)	29.06 (738)	34.25 (870)	30	17.2 (1.188)	17.2 (1.188)		1082 (492)
8 (200)	30 (750)	32.31 (821)	38.75 (984)	30	17.2 (1.188)	17.2 (1.188)		1427 (649)
10 (250)	26 (650)	29.06 (738)	34.25 (870)	30	17.2 (1.188)	17.2 (1.188)		1100 (500)
10 (250)	30 (750)	32.31 (821)	38.75 (984)	30	17.2 (1.188)	17.2 (1.188)		1445 (657)
12 (300)	30 (750)	32.31 (821)	38.75 (984)	30	17.2 (1.188)	17.2 (1.188)		1491 (678)

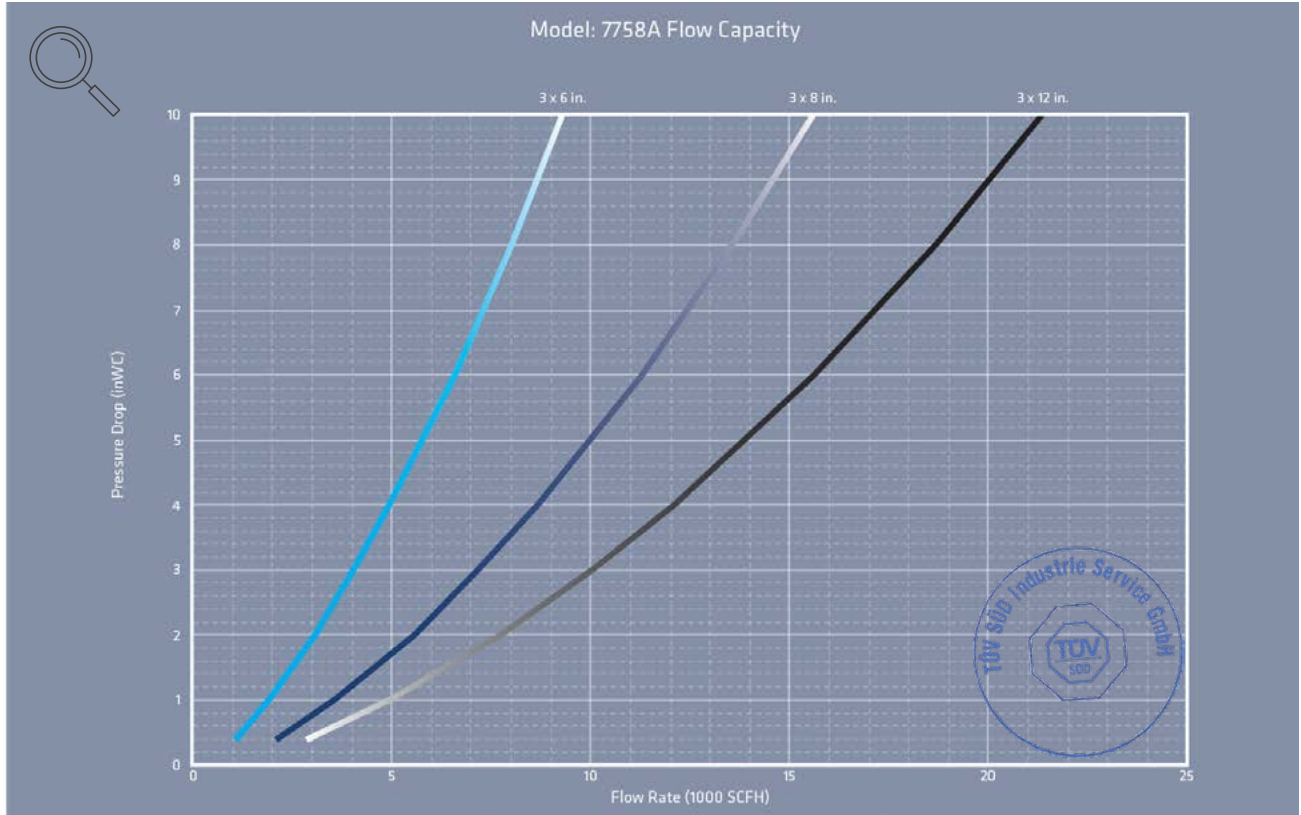
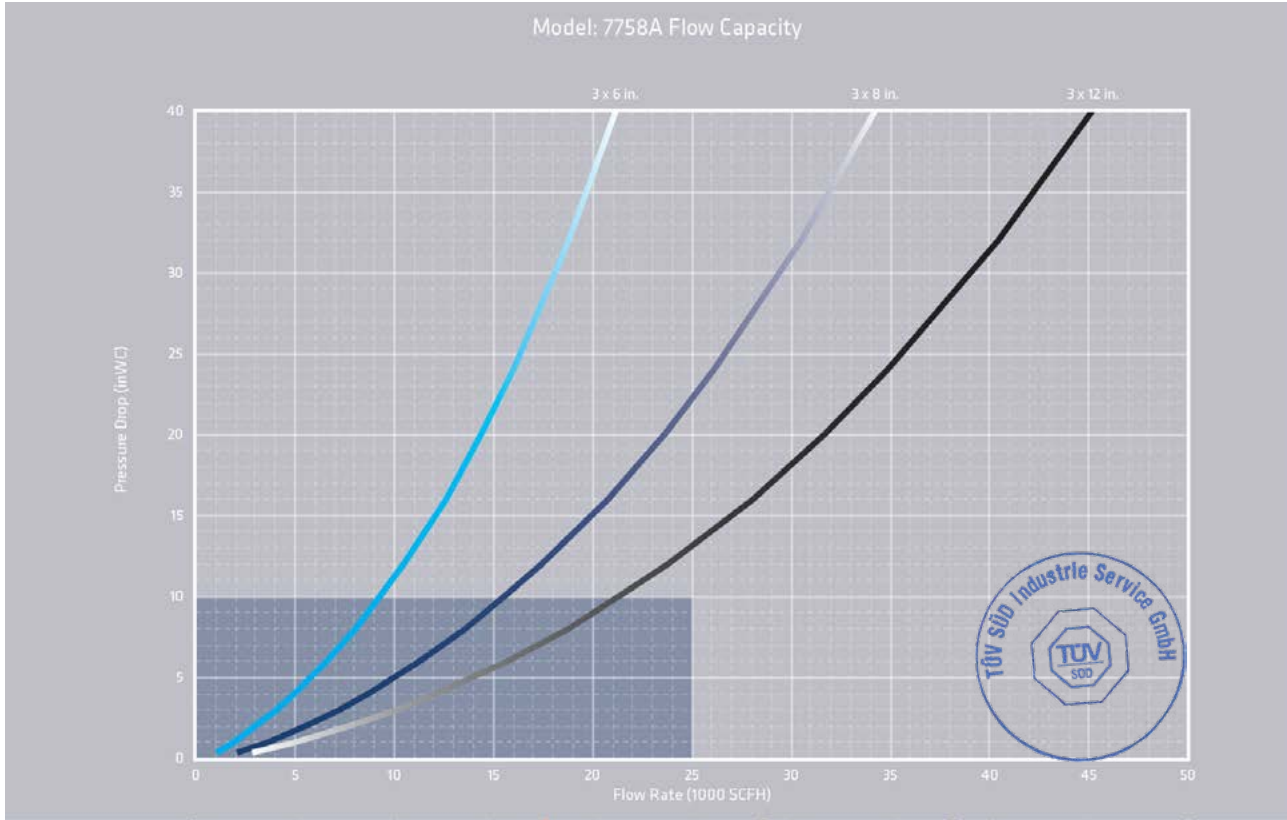


FLOW CAPACITY



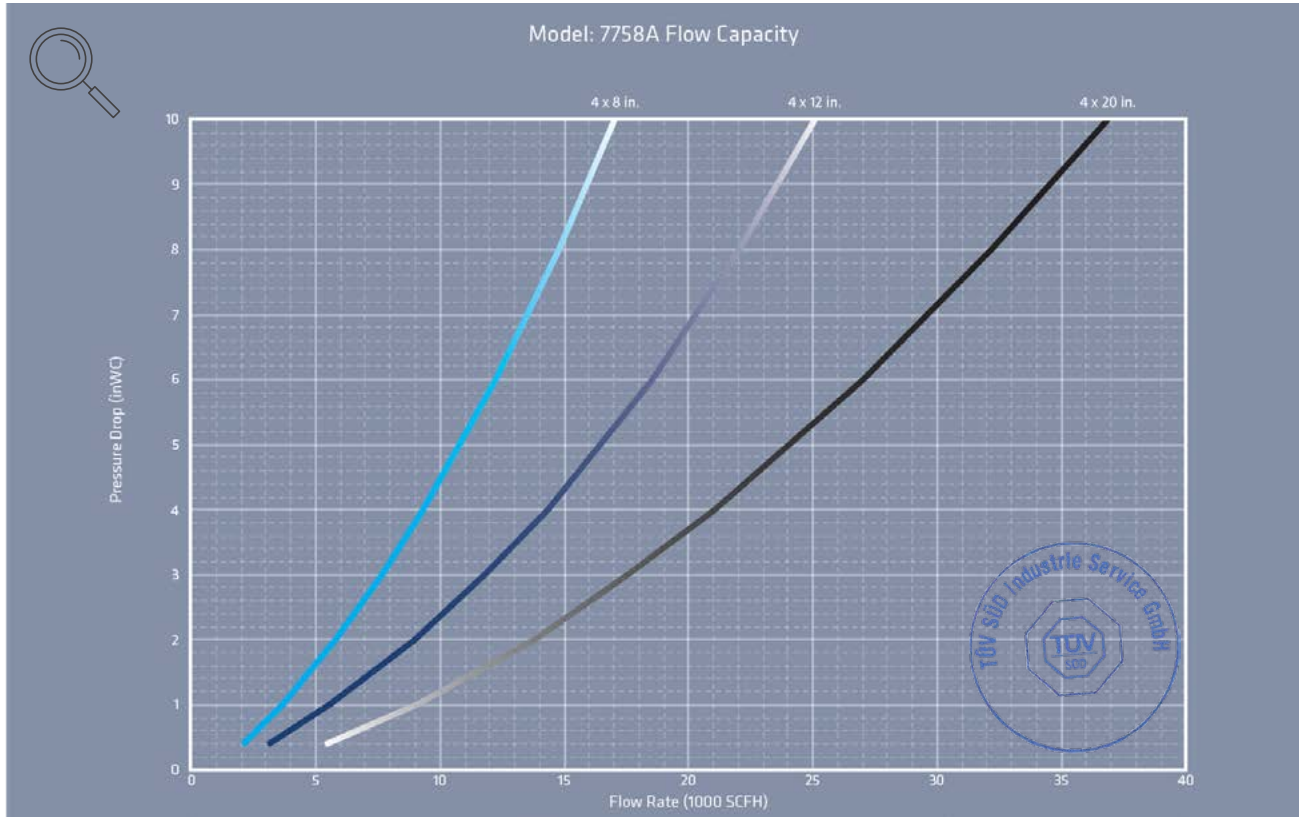
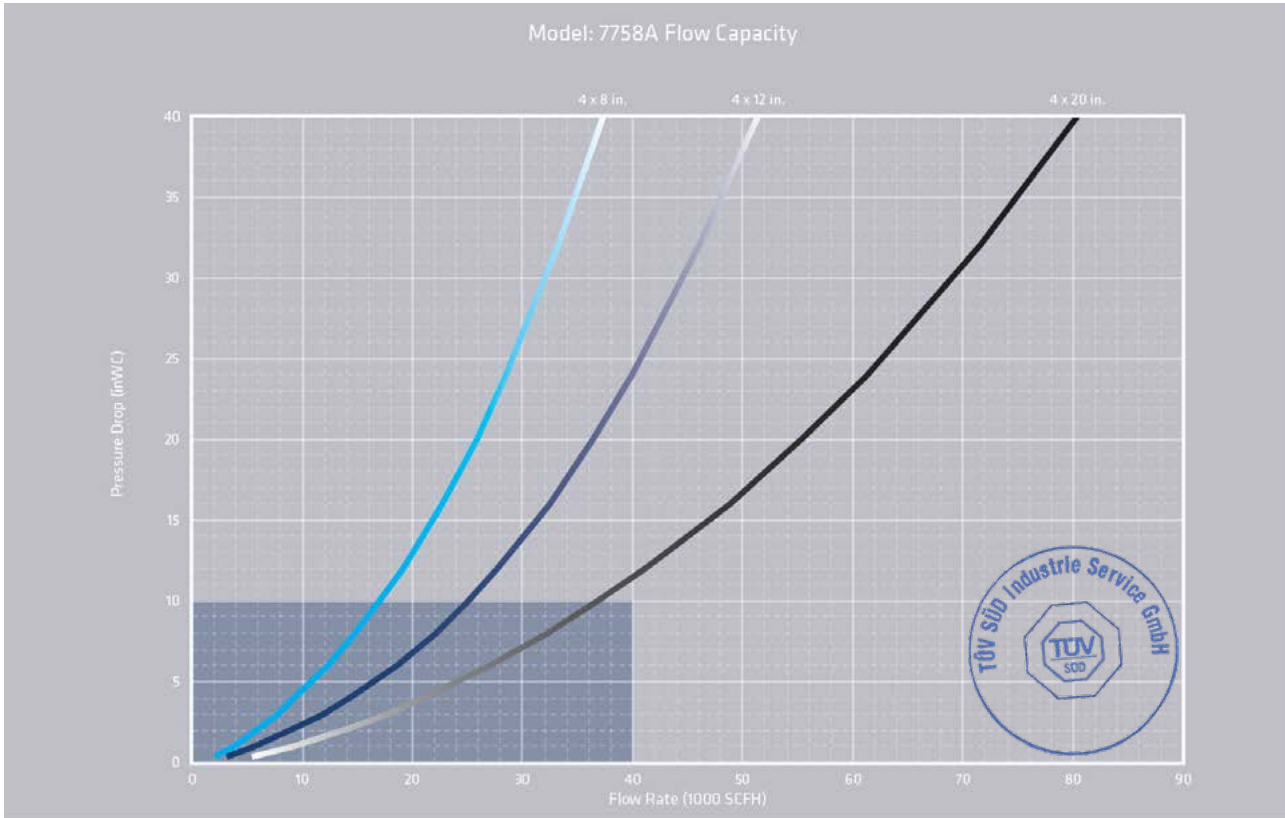
- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results have been reviewed and certified by TÜV SÜD.
- Flow data are for in-line mounting and does not include entrance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

FLOW CAPACITY



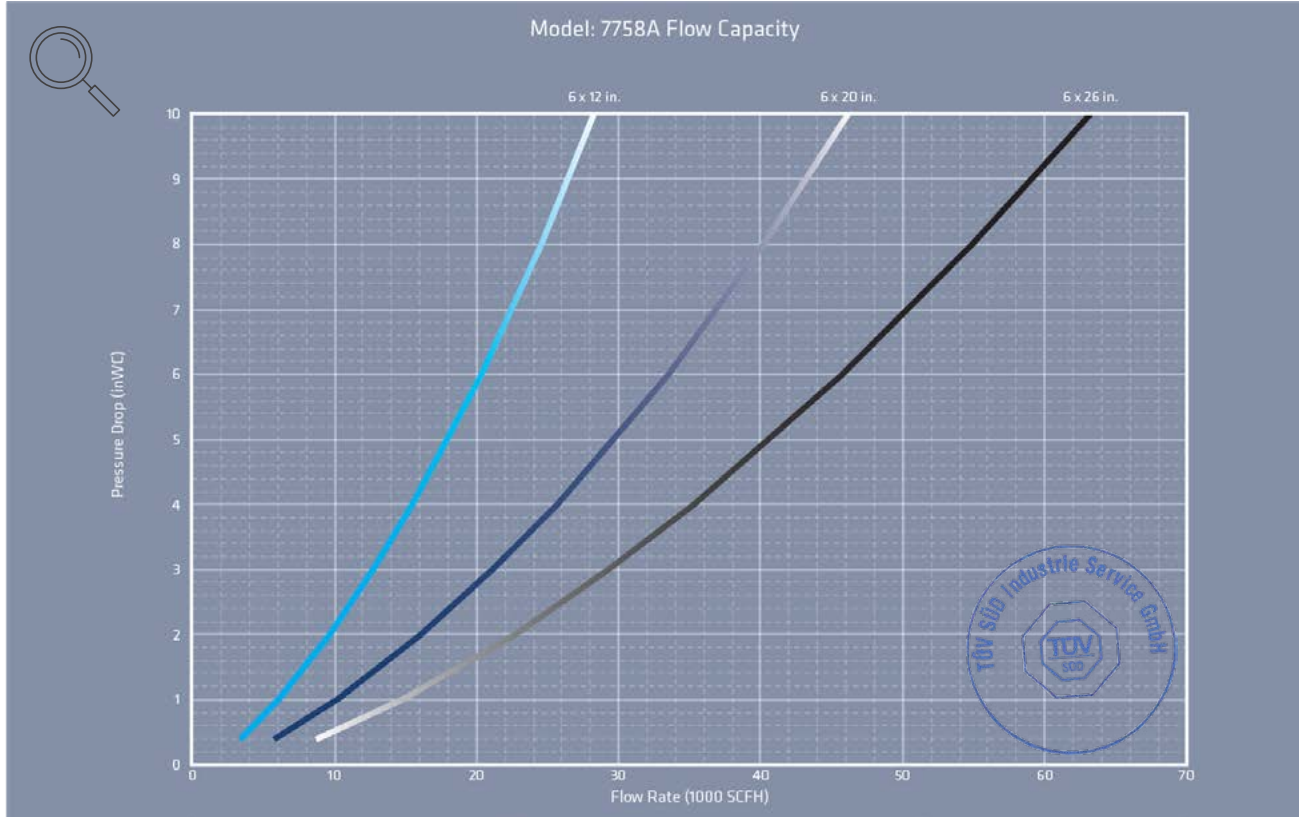
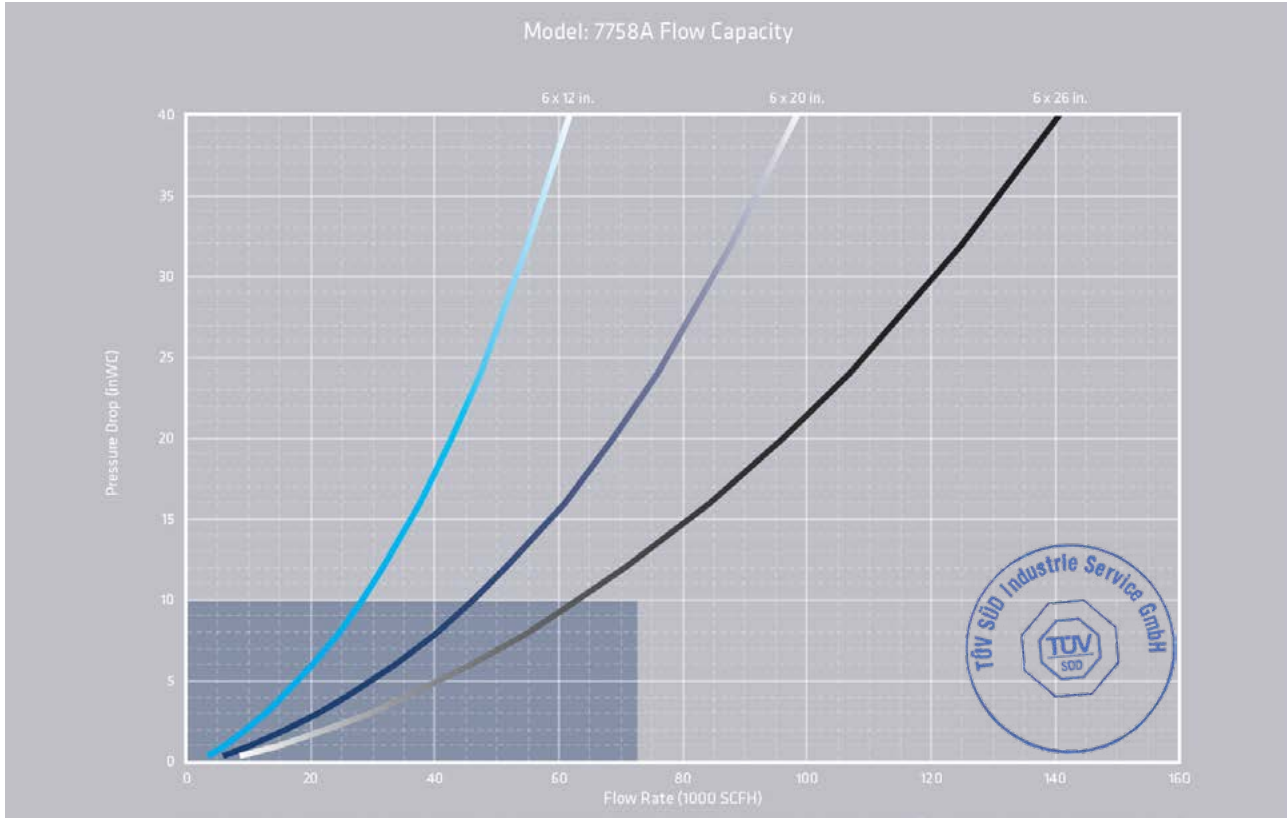
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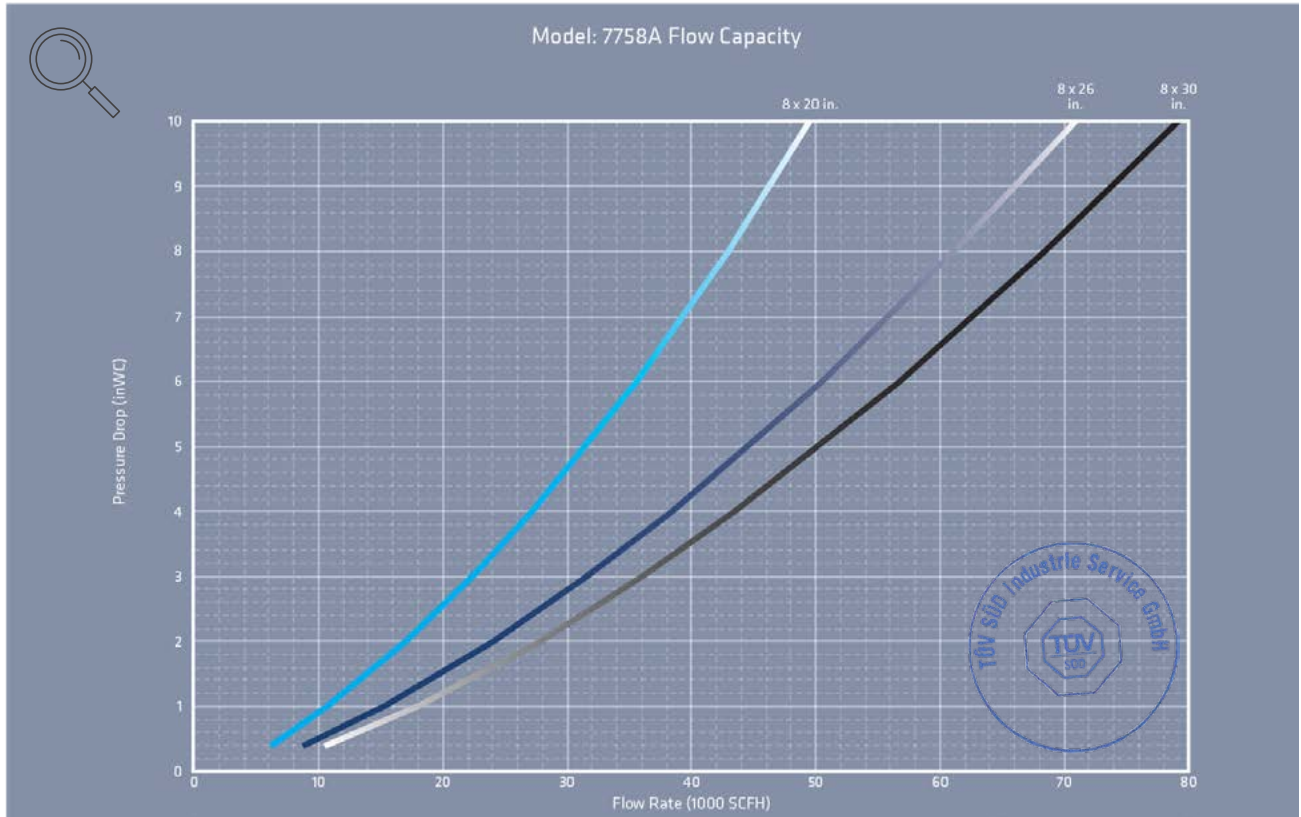
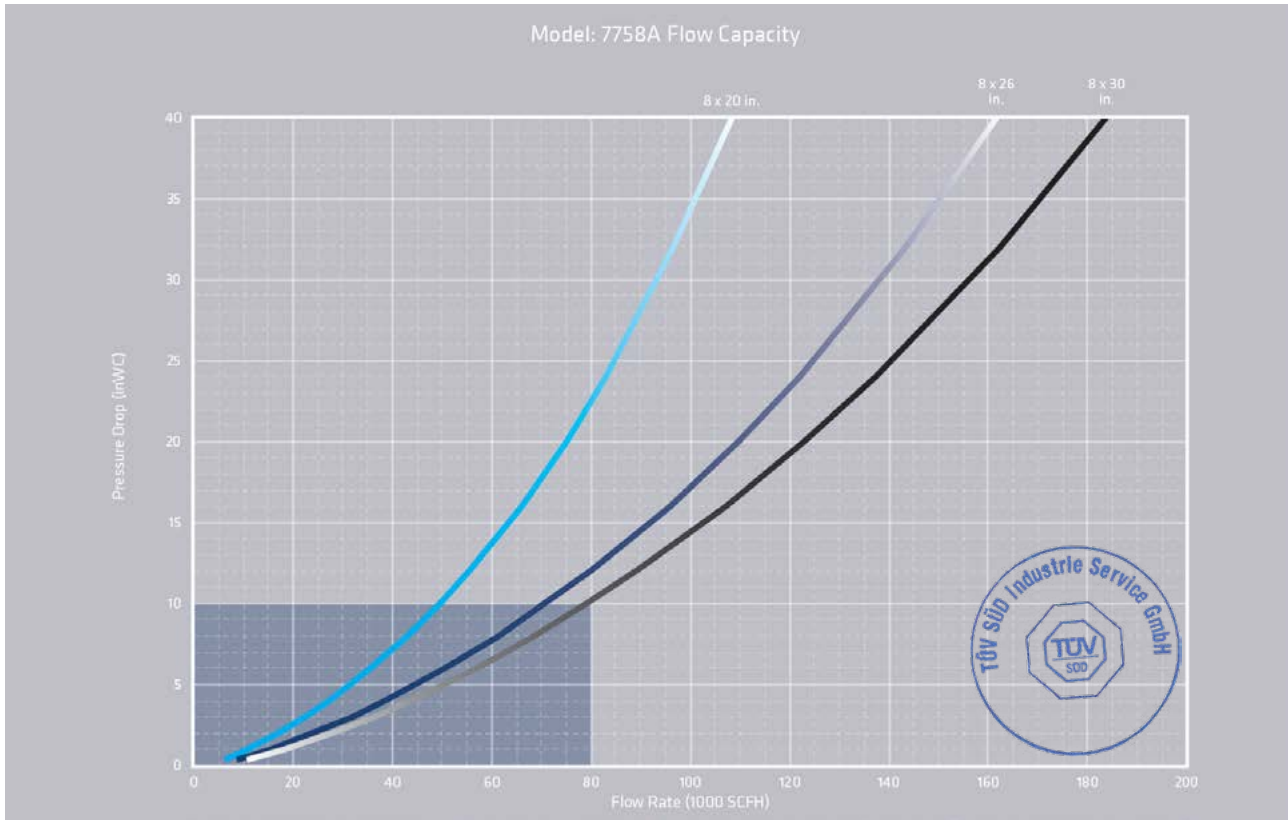
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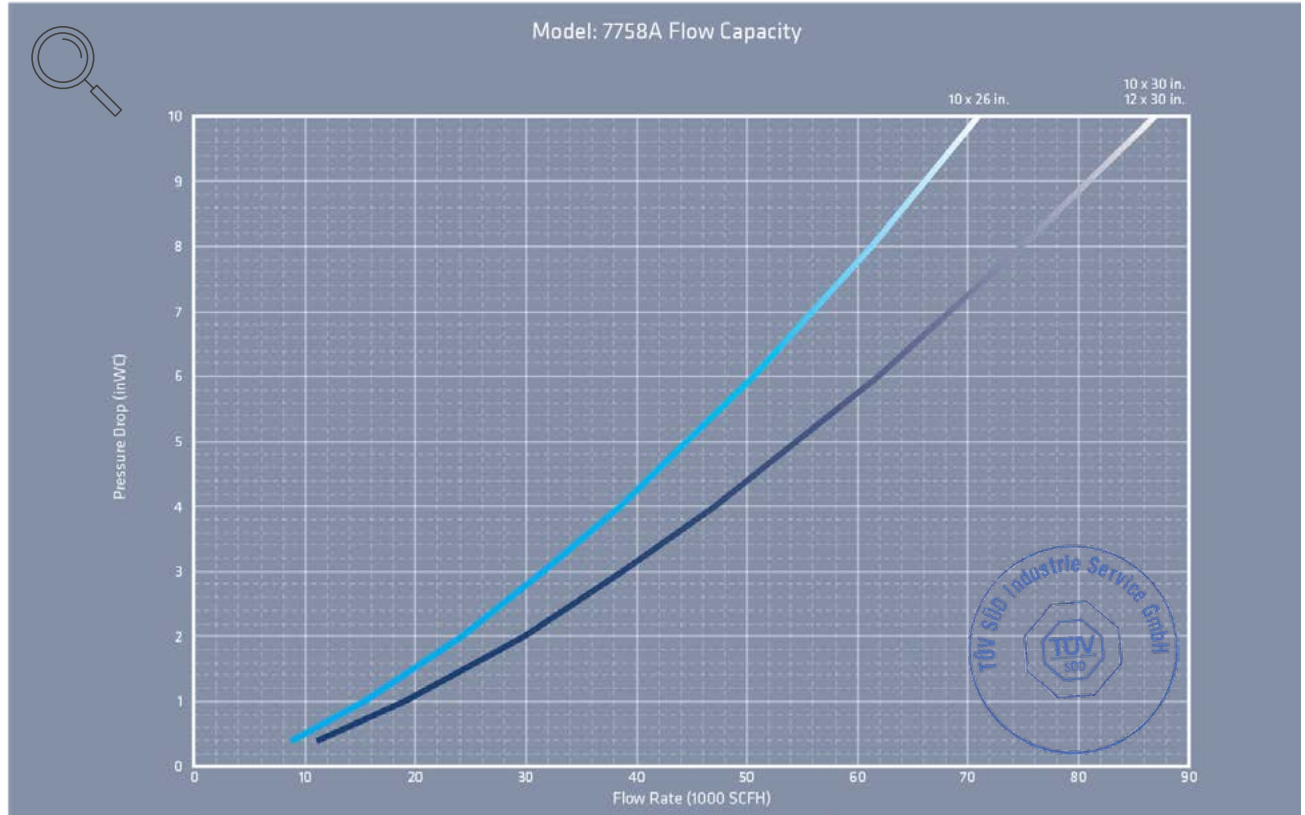
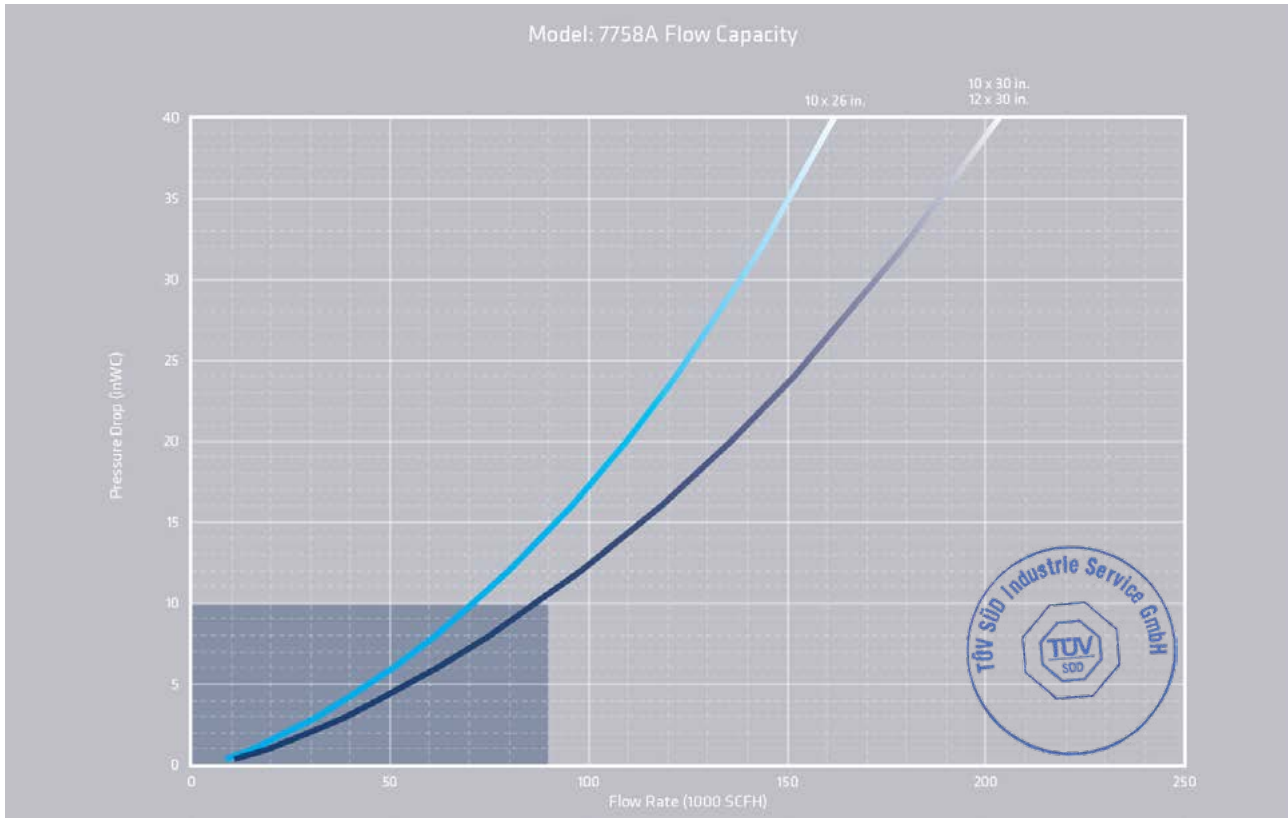
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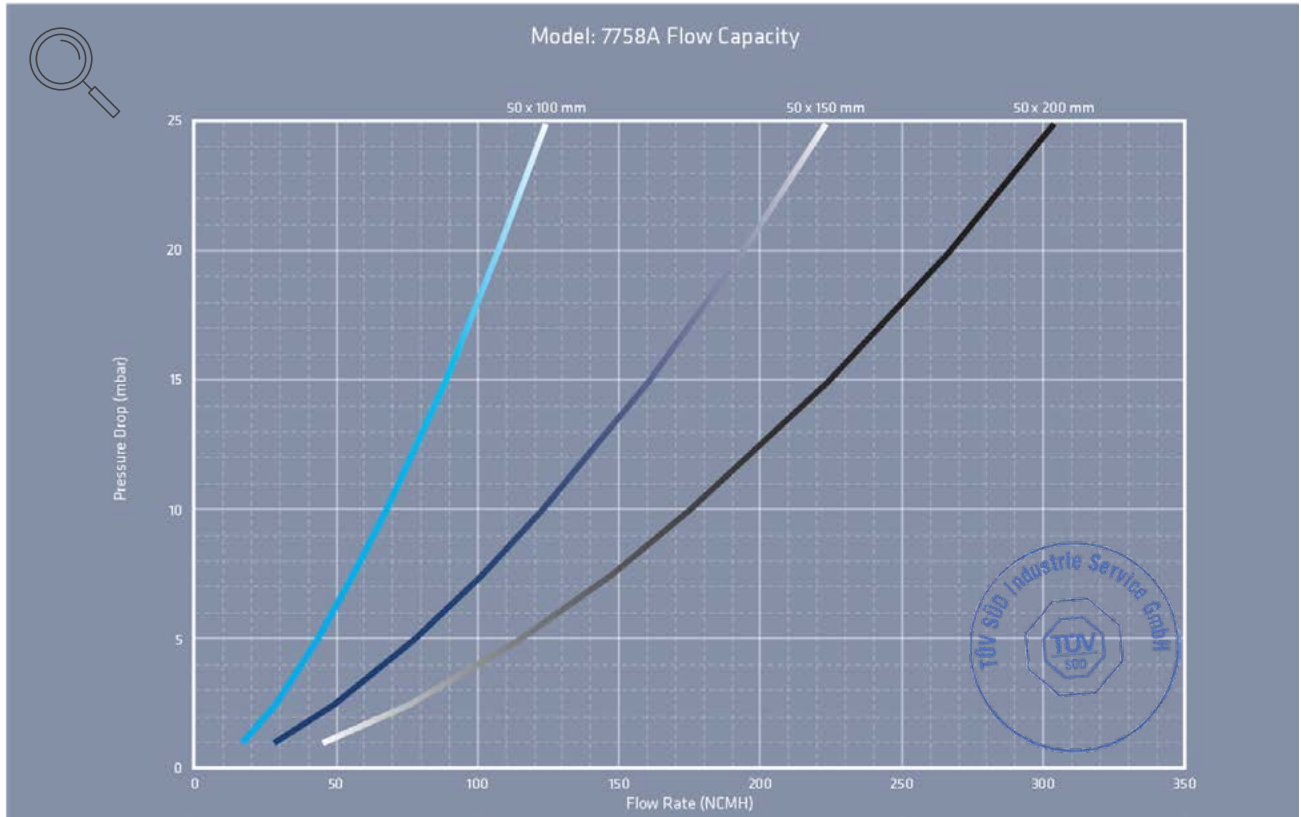
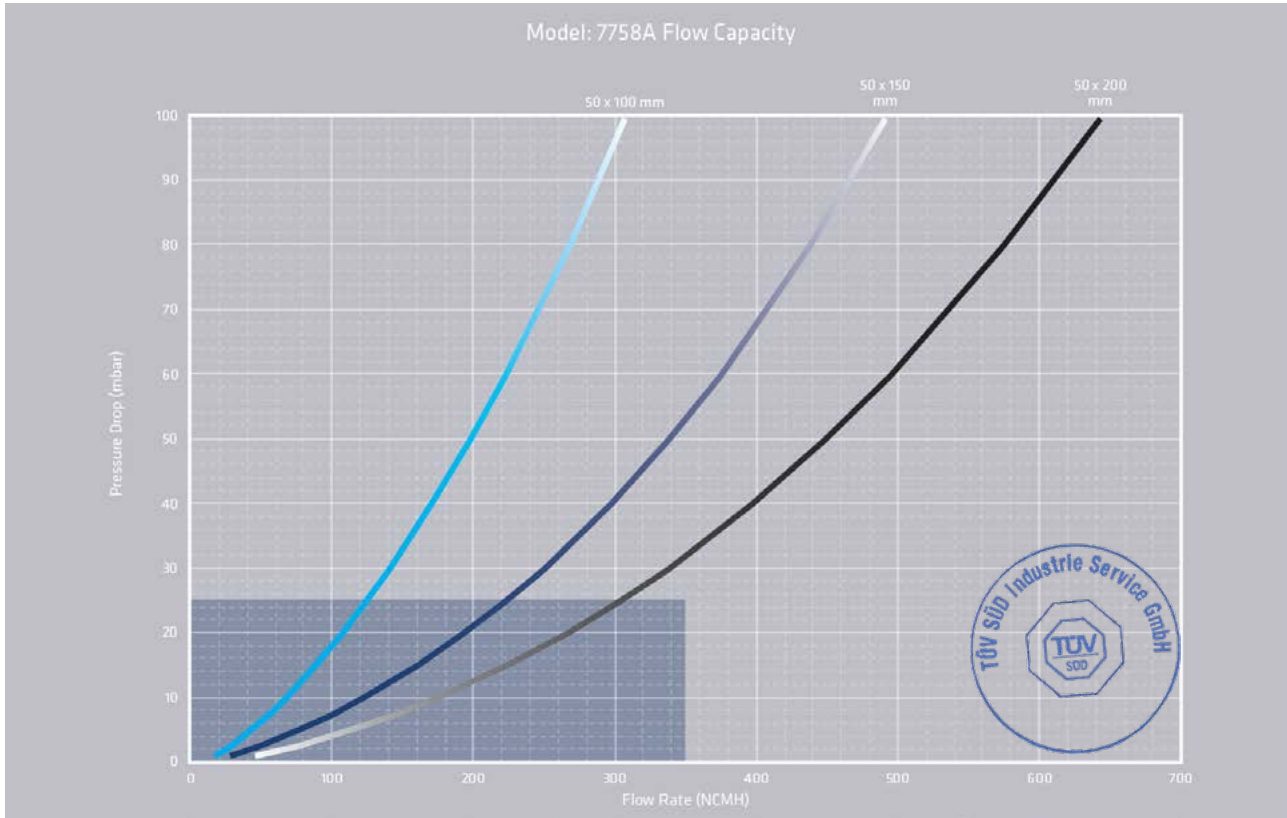
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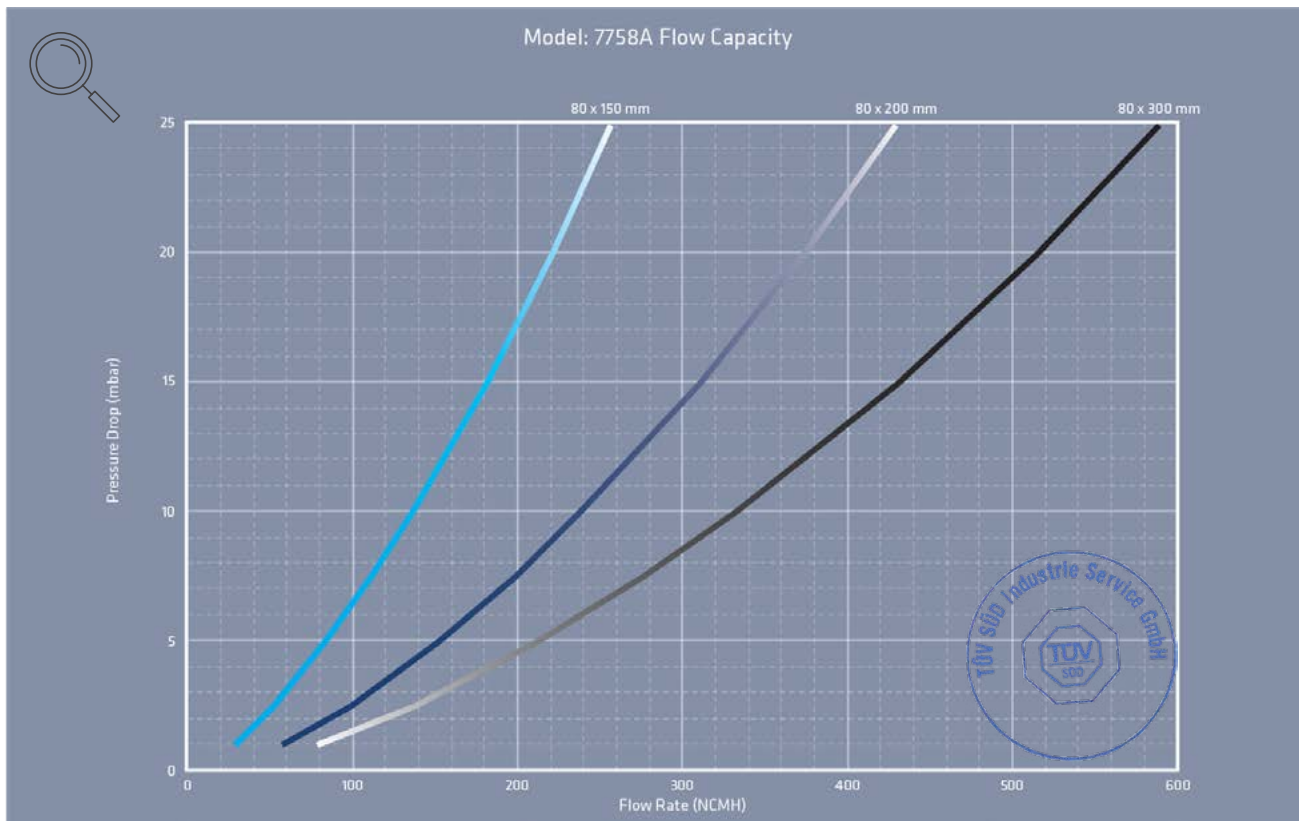
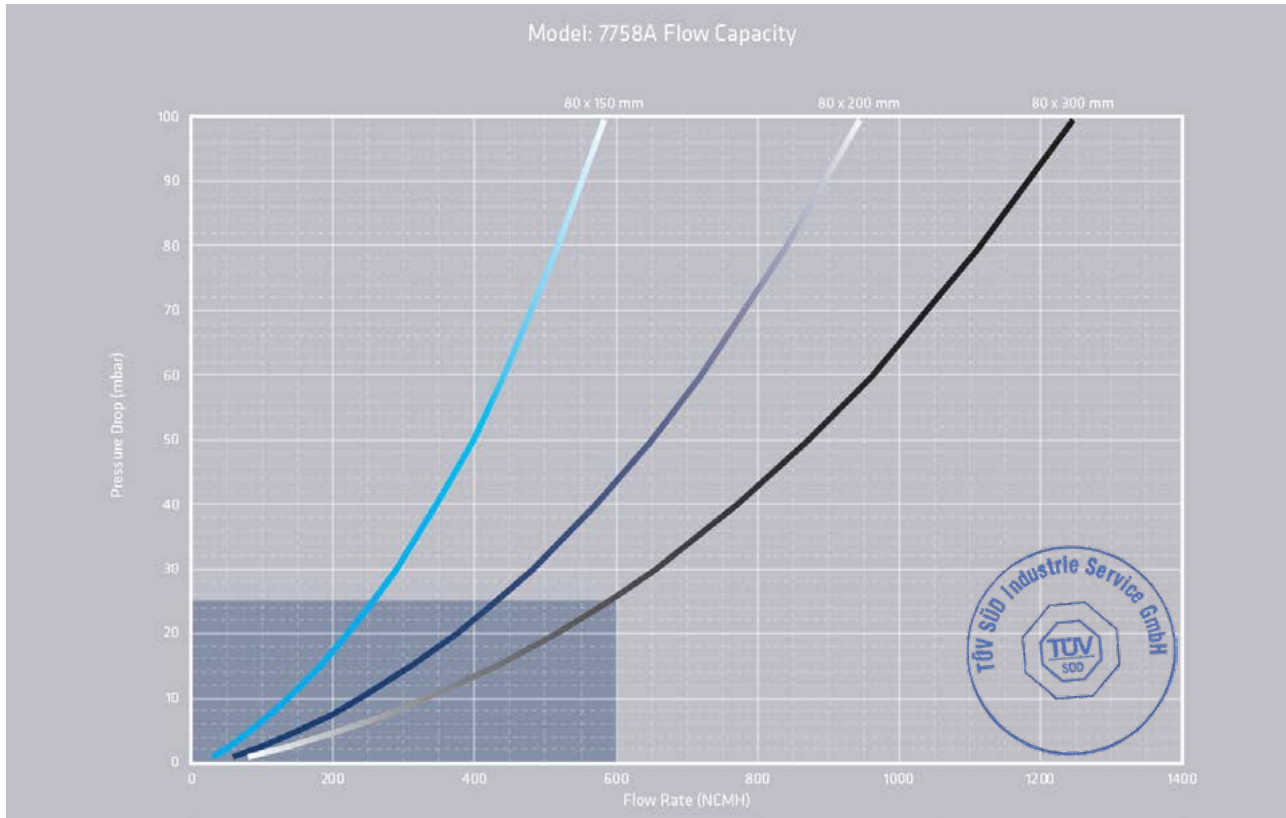
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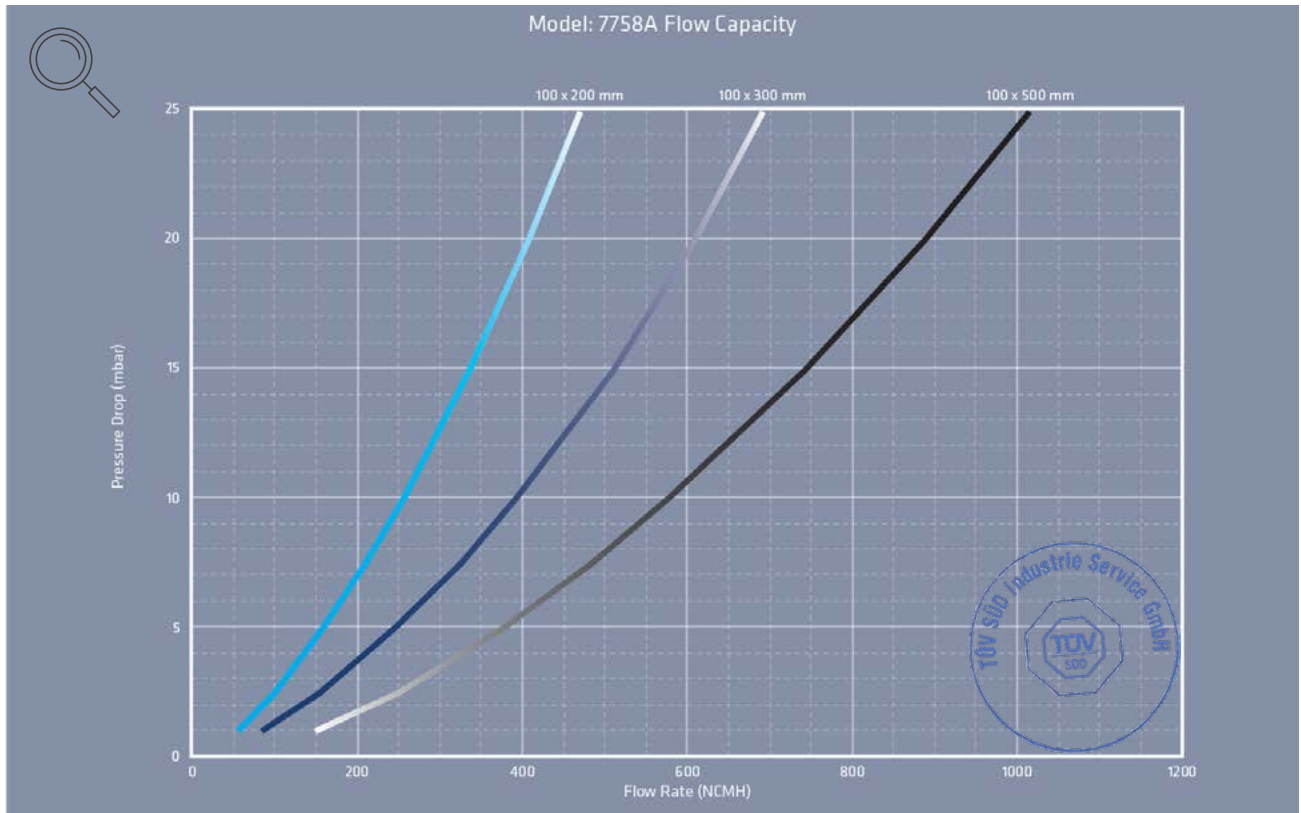
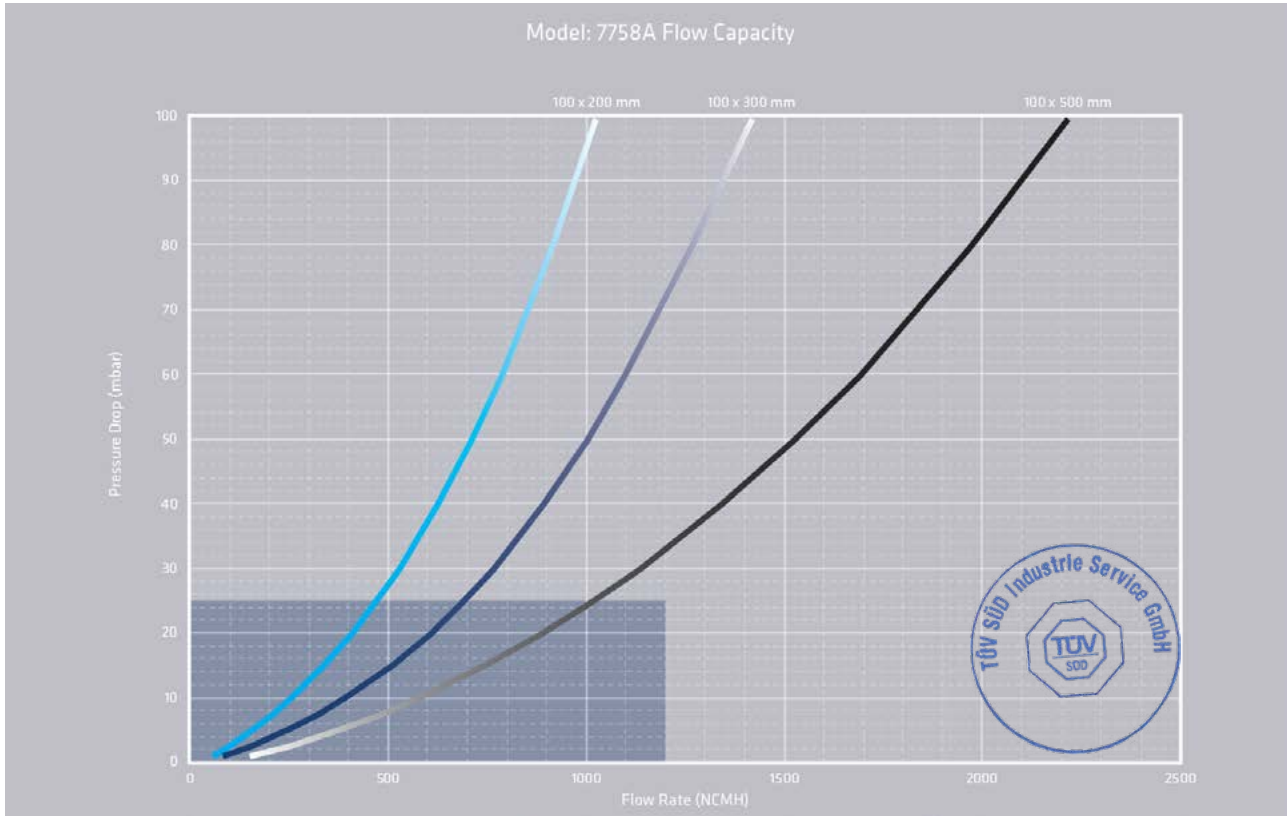
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- Flow values based on air at 0°C venting to atmospheric pressure of 1.01325 bara

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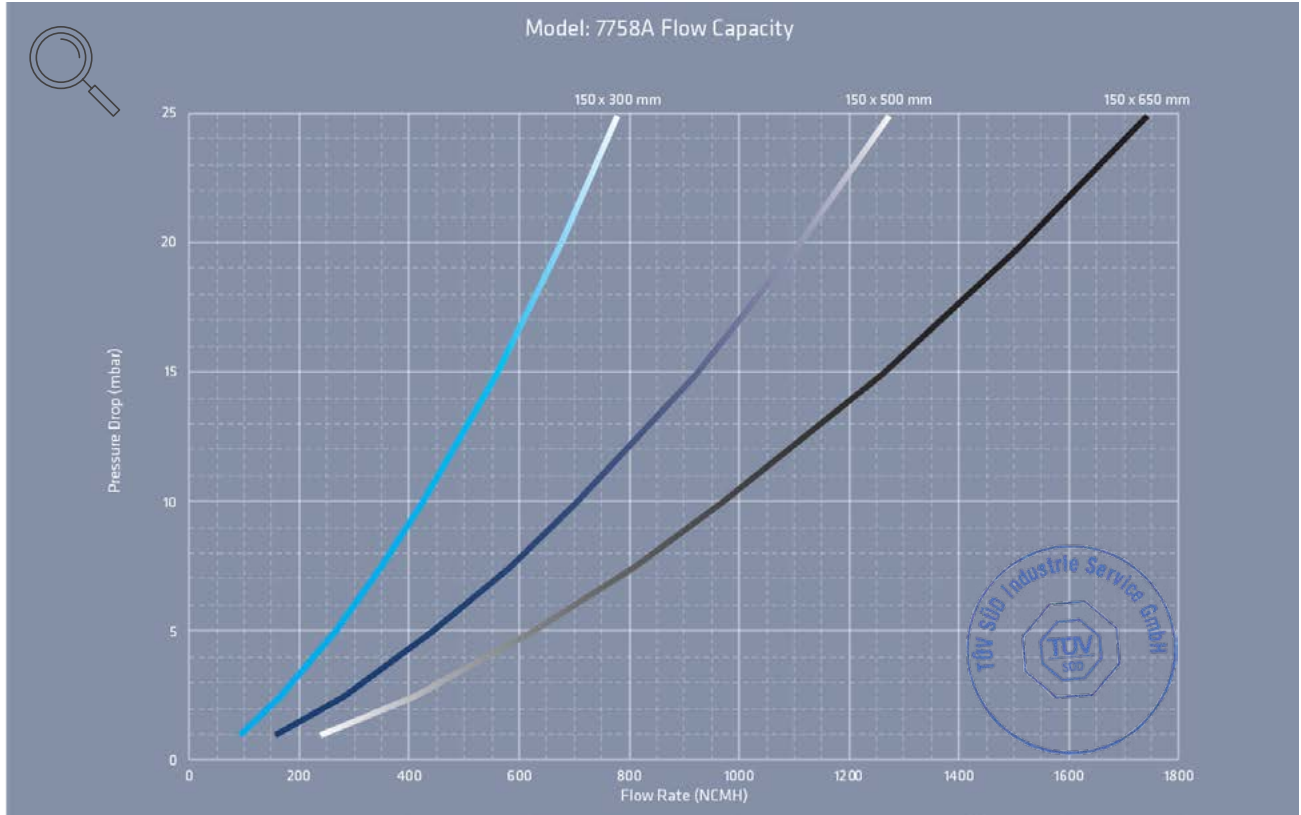
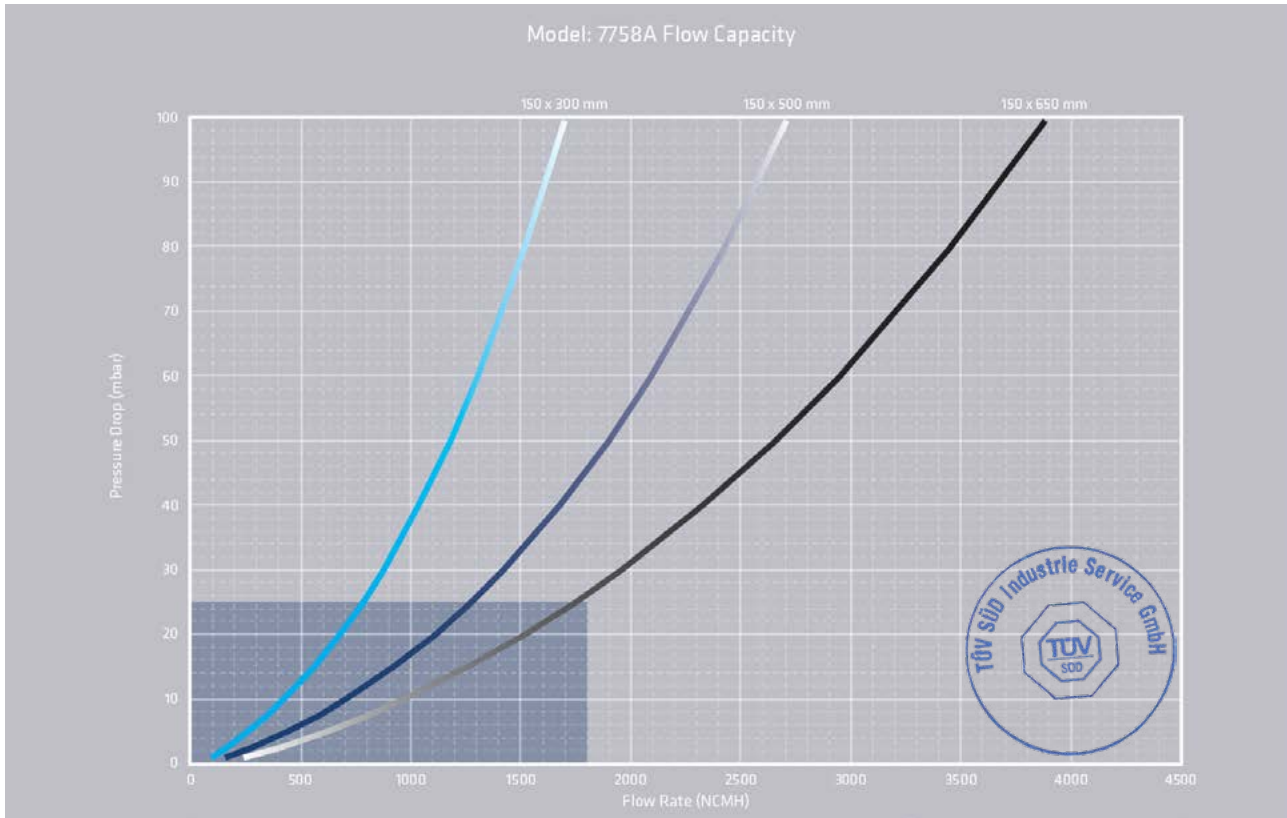
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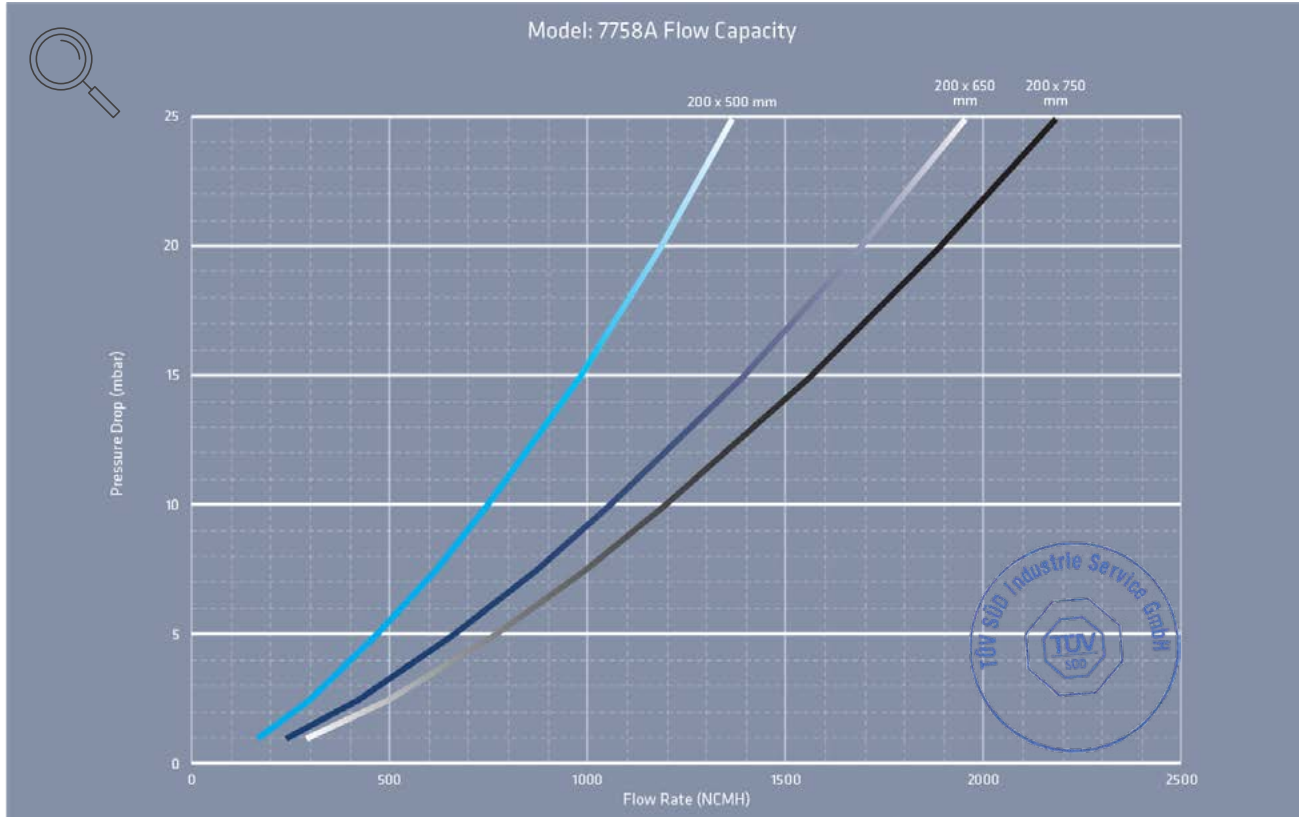
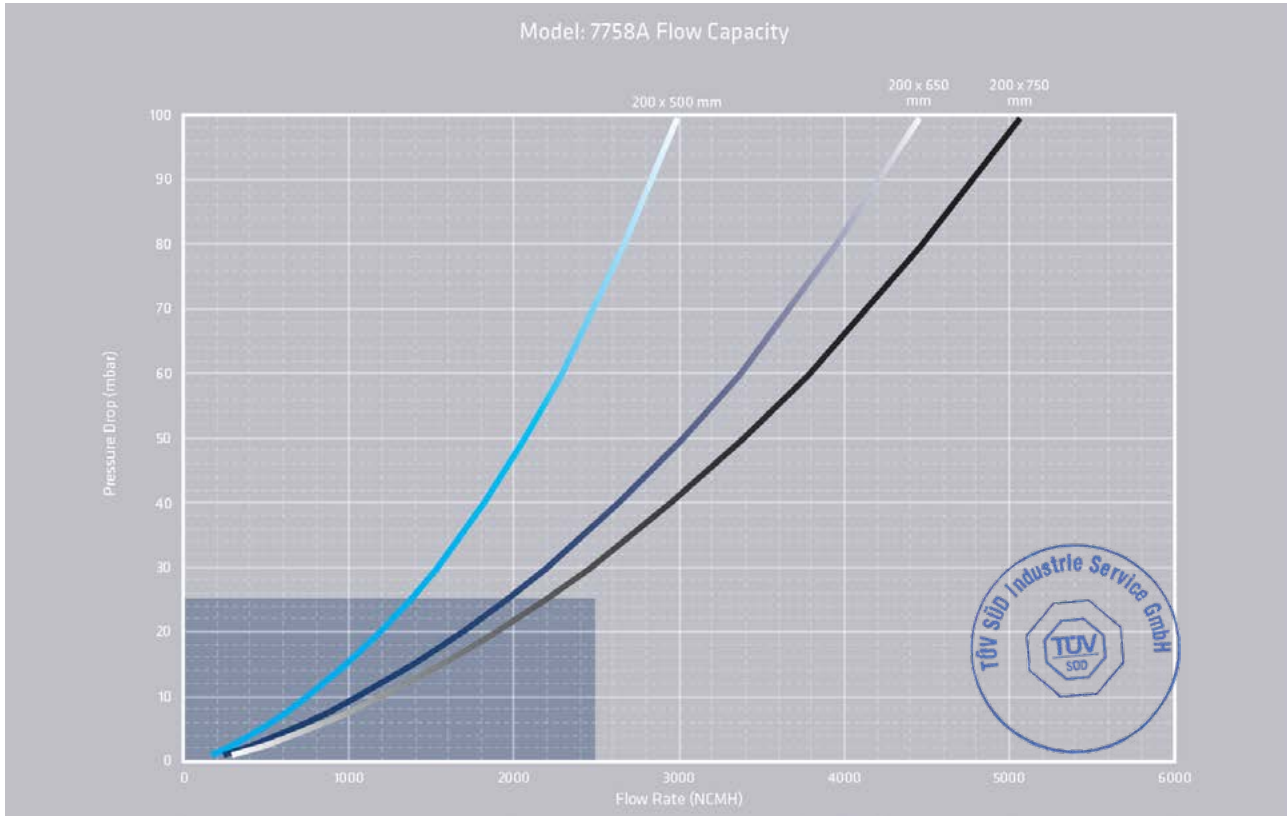
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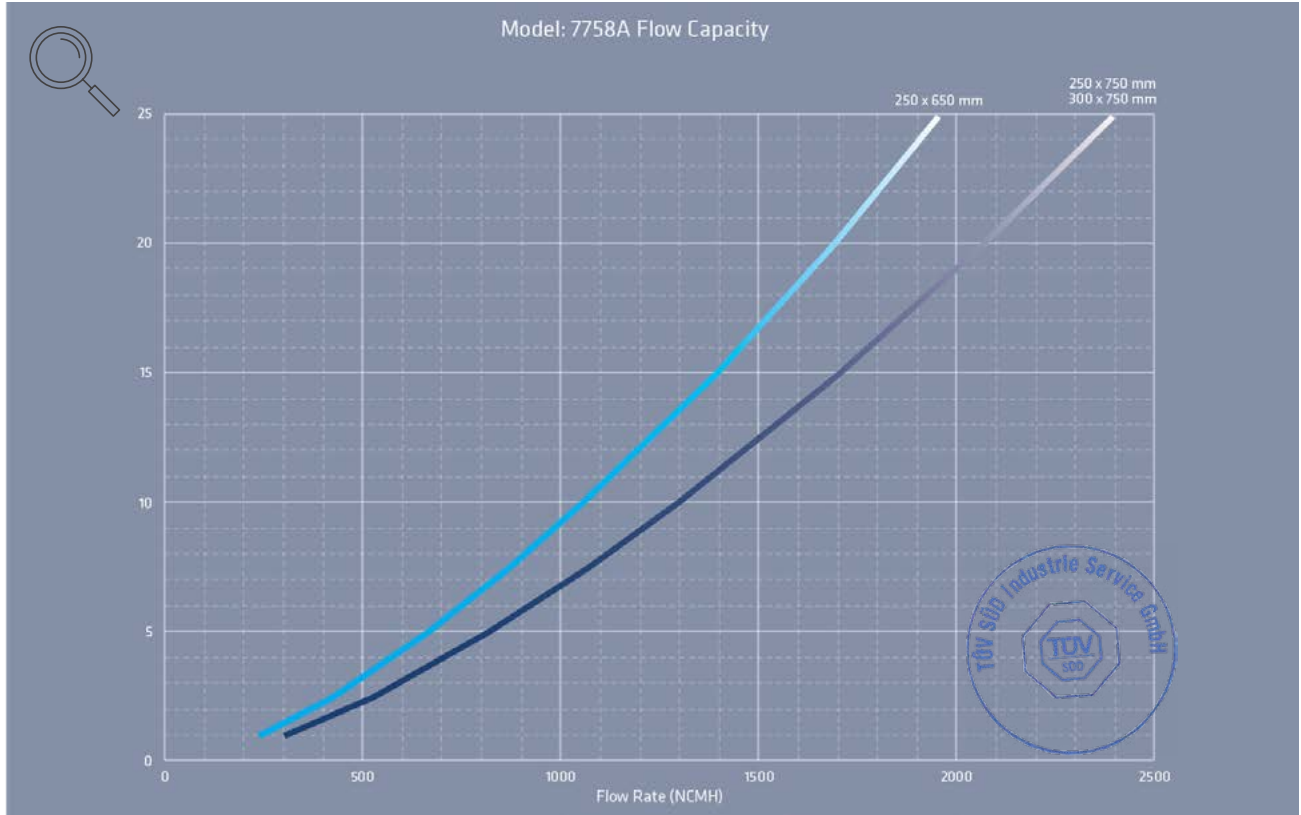
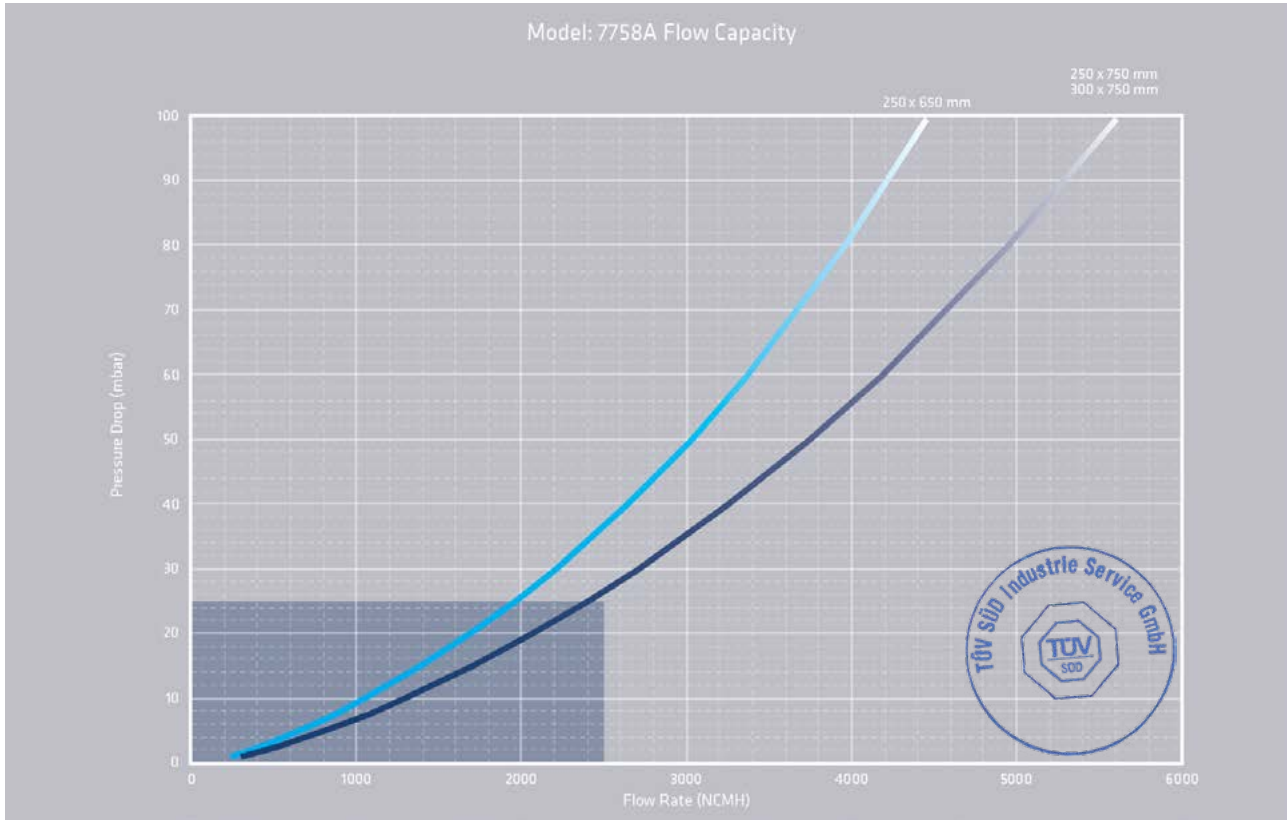
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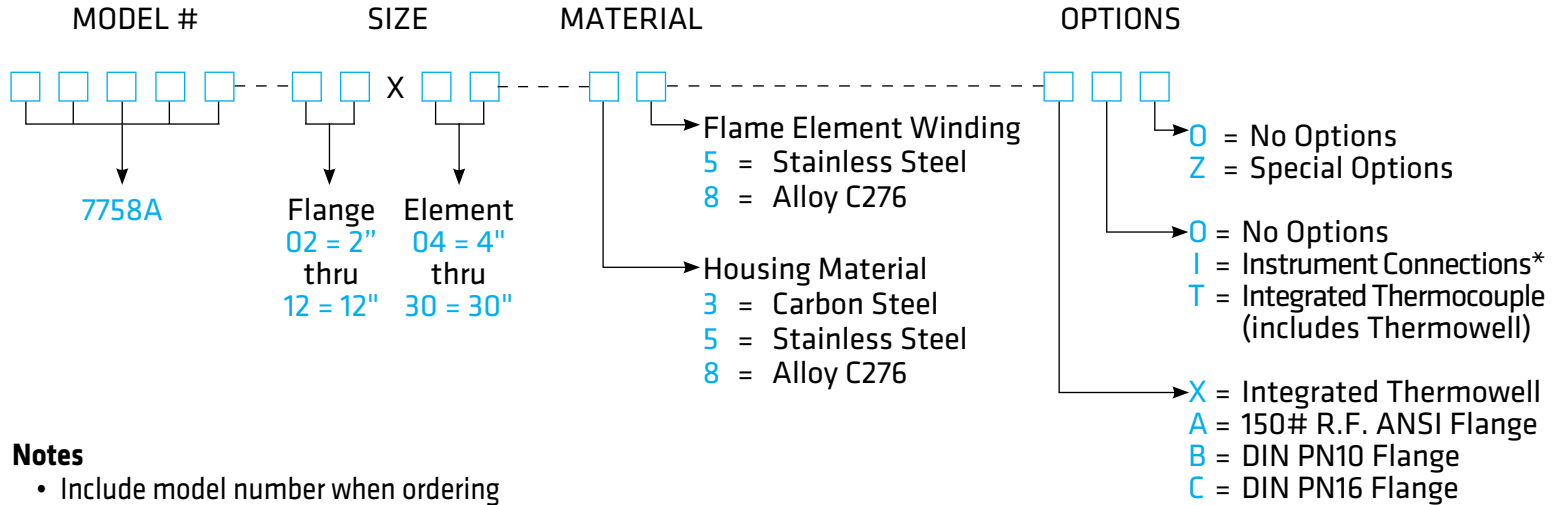
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HOW TO ORDER

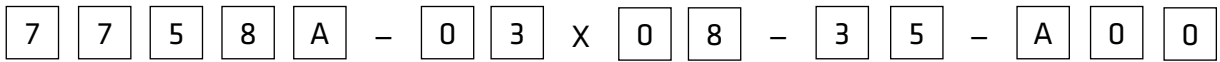
For easy ordering, select proper model numbers



Notes

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

Example



Indicates a 3" Model 7758A with Carbon Steel housing, 8" Stainless Steel Flame Element, ANSI Flanged Outlet and no other options.



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