





















## 5.0 PERFORMANCE

### Flow Characteristics

Formulas for  $C_v$  Values:

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

**Where:**

Q = Flow (GPM)

$\Delta P$  = Pressure Drop (psi)

$C_v$  = Flow Coefficient

Formulas for  $K_v$  Values:

$$\Delta P = \frac{Q^2}{K_v^2}$$

$$Q = K_v \times \sqrt{\Delta P}$$

**Where:**

Q = Flow (m<sup>3</sup>/hr)

$\Delta P$  = Pressure Drop (Bar)

$K_v$  = Flow Coefficient

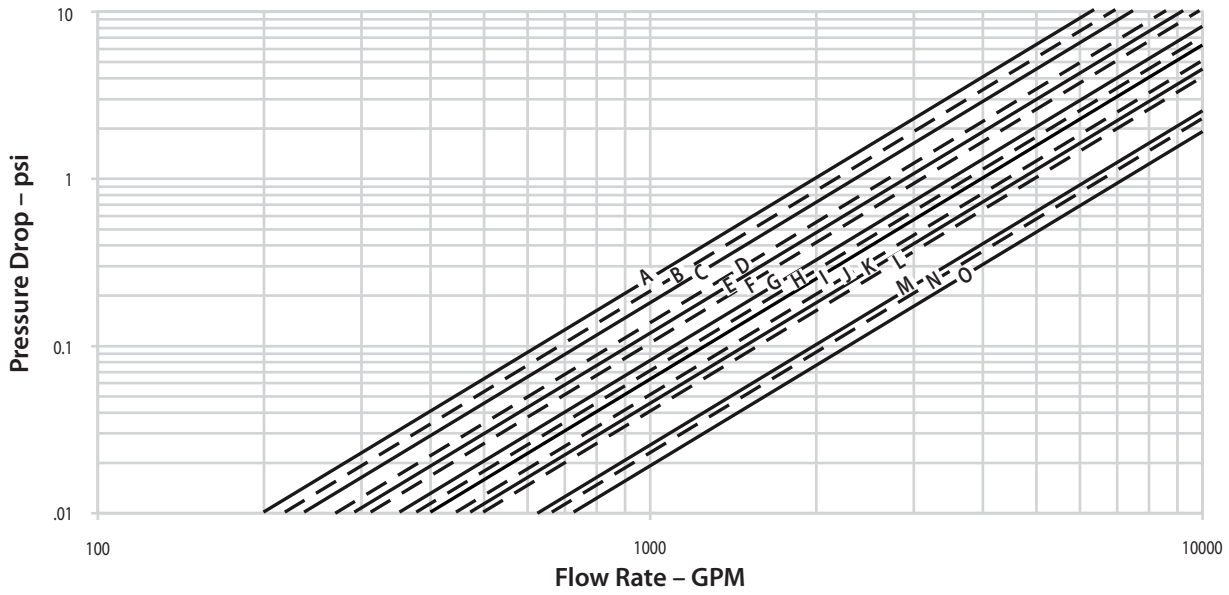
Values for flow of water at +60°F/+16°C are shown in the table below.

Size		Flow Rate	Cv/Kv Values
Inches/mm			
14 350	x 10	A	1984
	x 250		1716
	x 12	B	2170
	x 300		1877
x 14	C	2350	
		x 350	2033
16 400	x 12	D	2700
	x 300		2336
	x 14	E	2900
	x 350		2509
	x 16	F	3100
	x 400		2682
18 450	x 14	G	3500
	x 350		3028
	x 16	H	3750
	x 400		3244
x 18	I	3980	
x 450		3443	
20 500	x 16	J	4430
	x 400		3832
	x 18	K	4700
	x 450		4066
x 20	L	4960	
x 500		4290	
24 600	x 18	M	6270
	x 450		5424
	x 20	N	6600
	x 500		5709
x 24	O	7230	
x 600		6254	

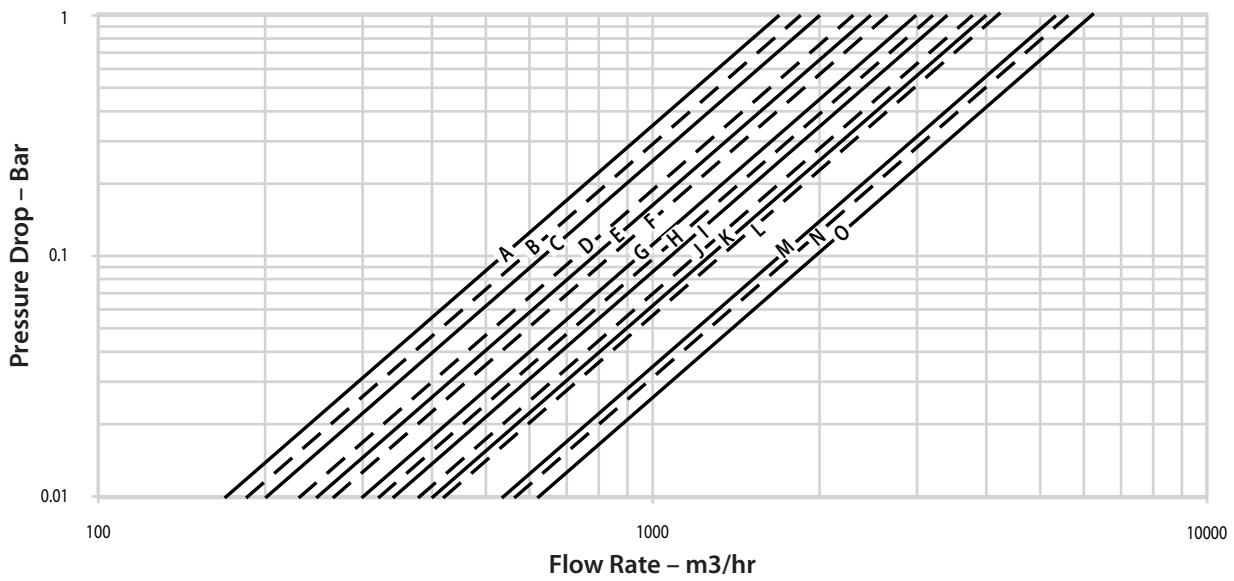
## 5.0 PERFORMANCE (CONTINUED)

### Flow Characteristics

#### Series W731-D Suction Diffuser – Flow Chart Cv



#### Series W731-D Suction Diffuser – Flow Chart Kv



## 6.0 NOTIFICATIONS

### WARNING

- When grooving pipe for use with AGS products, Victaulic roll grooving tools must be equipped with AGS roll sets (RW for steel or RWX for stainless steel).
- Victaulic AGS products **MUST NOT** be installed on pipe that is prepared with original-type grooving roll sets.

Failure to follow these instructions will cause grooves that are not within Victaulic AGS specifications, resulting in joint failure, serious personal injury, and property damage.

### WARNING

- Always depressurize and drain system before disassembly. Failure to do so could result in serious personal injury, property damage, joint leakage or joint separation.

## 7.0 REFERENCE MATERIALS

[05.01: Victaulic Seal Selection Guide](#)

[24.01: Victaulic Pipe Preparation Tools](#)

[I-100: Victaulic Field Installation Handbook](#)

### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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### Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

### Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [www.victaulic.com](http://www.victaulic.com).

### Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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