

Victaulic® ICSS - Low Lead Balancing Valve

TA Series 76X



1.0 PRODUCT DESCRIPTION

Available Sizes

- ½ – 2" / 15 – 50 mm

Pressure Class

- Full body rating: 400 psi/2758 kPa/28 bar.
- Suitable for working pressures with differential control ranges of 2 – 32 psi or 5 – 60 psi.

Application

- Potable water

Function

- Automatically limits flow to within +/- 5% over 95% of the control range.
- Removable flow cartridge provides ease of access for changeout, inspection and cleaning.

NOTE

- See [Submittal 02.06](#): Victaulic Approvals for Potable Water Products – ANSI/NSF 61 and ANSI/NSF 372 for more details.

2.0 CERTIFICATION/LISTINGS

The TA Series 76X is NSF Certified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

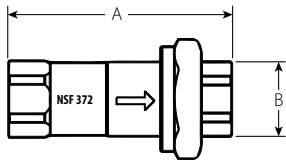


3.0 SPECIFICATIONS – MATERIAL

Body and Tailpiece: Series 300 stainless steel.
Union Collar: Nickel-plated brass.
Flow Cartridge: Series 300 stainless steel wear surfaces.
Accuracy: Flow rate +/- 5% over 95% of the control range.

4.0 DIMENSIONS

Series 76X



Size		Dimensions		Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	Approximate (Each) lb kg
1/2	0.840	3.8	1.6	0.6
15	21.3	97	39	0.3
3/4	1.050	3.8	2.1	0.9
20	26.9	97	52	0.4
1	1.315	5.2	2.8	1.9
DN25	33.7	132.1	71.1	0.9
1 1/4	1.660	5.4	2.8	2.1
DN32	42.4	137.2	71.1	1.0
1 1/2	1.900	6.9	3.8	4.2
DN40	48.3	175.3	96.5	1.9
2	2.375	7.0	3.8	4.2
DN50	60.3	177.8	96.5	1.9

NOTE

- Weights based on FPT x Union FPT. All weights and dimensions are subject to change. Model ICSS meets BAA requirements.

Replacement O-Rings

Nominal inches mm	Part Code
1/2 15	P00476XORG
3/4 20	P00676XORG
1	P01076XORG
1 1/4	P01276XORG
1 1/2	P01476XORG
2	P02076XORG

5.0 PERFORMANCE

Flow

Flow GPM/LPM	Marking Code	Pressure Range
½" – Low Differential 2 – 32 psid/13 – 220 kPa		
0.33/1.25	T	L
0.50/1.89	Y	L
0.67/2.54	U	L
0.75/2.84	Z	L
0.88/3.33	V	L
1.00/3.79	A	L
1.10/4.16	AW	L
1.25/4.73	AX	L
1.50/5.68	AY	L
1.75/6.62	AZ	L
2.00/7.57	B	L
2.25/8.52	BX	L
2.50/9.46	BY	L
3.00/11.36	C	L
½" – High Differential 5 – 60 psid/35 – 414 kPa		
1.00/3.79	A+	H
1.50/5.68	AY+	H
2.00/7.57	B+	H
2.50/9.46	BY+	H
3.00/11.36	C+	H
4.00/15.14	D+	H
5.00/18.93	E+	H

NOTE

- The tables above are flow options available. Options include size, pressure range, then flow rate. Only one cartridge can be used per assembly.

Flow GPM/LPM	Marking Code	Pressure Range
¾" – Low Differential 2 – 32 psid/13 – 220 kPa		
0.33/1.25	T	L
0.50/1.89	Y	L
0.67/2.54	U	L
0.75/2.84	Z	L
0.88/3.33	V	L
1.00/3.79	A	L
1.10/4.16	AW	L
1.25/4.73	AX	L
1.50/5.68	AY	L
1.75/6.62	AZ	L
2.00/7.57	B	L
2.25/8.52	BX	L
2.50/9.46	BY	L
3.00/11.36	C	L
3.50/13.25	CY	L
4.00/15.14	D	L
4.50/17.03	DY	L
5.00/18.93	E	L
6.00/22.71	F	L
7.00/26.50	G	L
8.00/30.28	H	L
¾" – High Differential 5 – 60 psid/35 – 414 kPa		
1.00/3.79	A+	H
1.50/5.68	AY+	H
2.00/7.57	B+	H
2.50/9.46	BY+	H
3.00/11.36	C+	H
4.00/15.14	D+	H
5.00/18.93	E+	H
6.00/22.71	F+	H
7.00/26.50	G+	H
8.00/30.28	H+	H
9.00/34.07	I+	H
10.00/37.85	AO+	H
11.00/41.64	AA+	H
12.00/45.42	AB+	H

5.0 PERFORMANCE (CONTINUED)

Flow

Flow GPM/LPM	Marking Code	Pressure Range
1 – 1 1/4" – Low Differential 2 – 32 psid/13 – 220 kPa		
9.00/34.06	I	L
10.00/37.85	AO	L
11.00/41.63	AA	L
12.00/45.42	AB	L
13.00/49.21	AC	L
14.00/52.99	AD	L
15.00/56.78	AE	L
16.00/60.56	AF	L
17.00/64.35	AG	L
18.00/68.13	AH	L
19.00/71.92	AI	L
1 – 1 1/4" – High Differential 5 – 60 psid/35 – 414 kPa		
13.00/49.21	AC+	H
14.00/52.99	AD+	H
15.00/56.78	AE+	H
16.00/60.56	AF+	H
17.00/64.35	AG+	H
18.00/68.13	AH+	H
19.00/71.92	AI+	H
20.00/75.7	BO+	H
21.00/79.49	BA+	H
22.00/83.27	BB+	H
23.00/87.06	BC+	H
24.00/90.84	BD+	H
25.00/94.63	BE+	H
26.00/98.42	BF+	H
27.00/102.2	BG+	H

NOTE

- The tables above are flow options available. Options include size, pressure range, then flow rate. Only one cartridge can be used per assembly.

Flow GPM/LPM	Marking Code	Pressure Range
1 1/2 – 2" – Low Differential 2 – 32 psid/13 – 220 kPa		
20.00/75.7	BO	L
22.00/83.27	BB	L
24.00/90.84	BD	L
26.00/98.42	BF	L
28.00/105.99	BH	L
30.00/113.56	CO	L
32.00/121.13	CB	L
34.00/128.7	CD	L
36.00/136.27	CF	L
38.00/143.84	CH	L
40.00/151.41	DO	L
42.00/158.98	DB	L
44.00/166.55	DD	L
46.00/174.12	DF	L
48.00/181.7	DH	L
50.00/189.27	EO	L
1 1/2 – 2" – High Differential 5 – 60 psid/35 – 414 kPa		
28.00/105.99	BH+	H
30.00/113.56	CO+	H
32.00/121.13	CB+	H
34.00/128.7	CD+	H
36.00/136.27	CF+	H
38.00/143.84	CH+	H
40.00/151.41	DO+	H
42.00/158.98	DB+	H
44.00/166.55	DD+	H
46.00/174.12	DF+	H
48.00/181.70	DH+	H
50.00/189.27	EO+	H
52.00/196.84	EB+	H
54.00/204.41	ED+	H
56.00/211.98	EF+	H
58.00/219.55	EH+	H
60.00/227.12	FO+	H
62.00/234.69	FB+	H
64.00/242.26	FD+	H
68.00/257.4	FH+	H
70.00/264.97	O+	H

6.0 NOTIFICATIONS

Not applicable - contact Victaulic with any questions.

7.0 REFERENCE MATERIALS

- [02.06: Victaulic Approvals for Potable Water Products – ANSI/NSF 61 and ANSI/NSF 372](#)
- [08.50: Victaulic® Balancing Valve TA Series 78BL](#)
- [08.58: Victaulic® Therm Zero Valve for Potable Water Applications](#)
- [08.59: Victaulic Balancing Valve for Potable Water Applications](#)
- [08.73: Victaulic® Brass Body Ball Valve Series 722L](#)
- [08.75 : Victaulic® Domestic Water Kits for Hydronic Balancing](#)

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

Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be constructed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

Note

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

Installation

Reference should always be made to the current IMI TA installation/assembly instructions for the product you are installing. For coupling and strainer installation, reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

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

Trademarks

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.