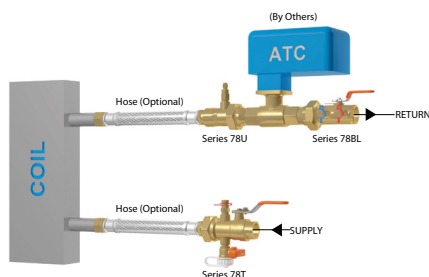


Series 78T/78U Manual Koil-Kit™ Coil Pack with TA Series 78BL Balancing Ball Valve



1.0 PRODUCT DESCRIPTION

Available Sizes

- ½ – 2”/DN15 – DN50

Maximum Working Pressure

- Up to 400 psi/2758 kPa/27.6 bar

NOTE

- Coil hose ratings may vary from the maximum working pressure rating stated above. If a coil hose is included, please refer to the Coil Hose table on page 6 for more information.

Operating Temperature Range

- –4°F to +230°F/–20°C to +110°C

Function

- Provides simplified coil circuit installation that meets optimal hydronic system design requirements

Application

- Hot and cold water, including treated and untreated water systems
- This KOIL-KIT™ Coil Pack is available with or without hoses
 - KOIL-KIT™ Coil Pack with sweat ends and without hoses includes:
 - (1) Series 78T Ball Valve Union Combination – Sweat x Sweat
 - (1) Series 78U Union Port Fitting – Sweat x Male Union
 - (1) TA Series 78BL Balancing Ball Valve – Sweat x Sweat
 - KOIL-KIT™ Coil Pack with threaded ends and without hoses includes:
 - (1) Series 78T Ball Valve Union Combination – Female x Female
 - (1) Series 78U Union Port Fitting – Female x Male Union
 - (1) TA Series 78BL Balancing Ball Valve – Female x Female
 - KOIL-KIT™ Coil Pack with threaded ends and with hoses includes:
 - (1) Series 78T Ball Valve Union Combination – Female x Female with 2' Male x Male Union Hose
 - (1) Series 78U Union Port Fitting – Female x Male Union with 2' Male x Male Union Hose
 - (1) TA Series 78BL Balancing Ball Valve – Female x Female

NOTE

- The Series 78T includes a PT port and a blow-down valve. The Series 78U includes a PT port and a manual air vent.

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

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

2.0 CERTIFICATION/LISTINGS

Product designed and manufactured under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO-9001:2008.

3.0 SPECIFICATIONS – MATERIAL

Series 78T Ball Valve Union Combination

Body: Dezincification resistant (DZR) brass alloy

Union: DZR brass with EPDM O-ring

Tailpiece: DZR brass

Stem: Brass

Stem O-Ring Seals: EPDM

Handle: Steel with vinyl grip

Series 78U Union Port Fitting

Body: DZR brass alloy

Union: DZR brass with EPDM O-ring

Seals: EPDM O-ring

Tailpiece: DZR brass alloy

TA Series 78BL Balancing Ball Valve

Body and End Face: Low-lead brass equivalent to UNS C69300

O-Rings: EPDM suitable for service with propylene and ethylene glycol mixtures up to 50% by volume in water

Blowout Proof Stem: Stainless steel

Ball: Stainless steel

Ball Seats: Polytetrafluoroethylene (PTFE).

Indexing Handle with Adjustable Memory Stop: Zinc-plated carbon steel with a vinyl dip

Positioning Pin and Dial Scale: UNS S30400

Fixed Connection: Female NPT or sweat

Coil Hose

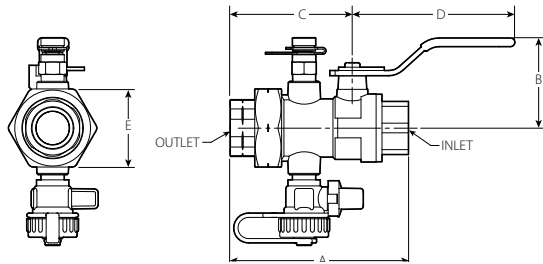
Hose: Braided stainless steel

Core: EPDM polymer with stainless ferrules

End Material: CW617 brass

4.0 DIMENSIONS

Series 78T Ball Valve Union Combination



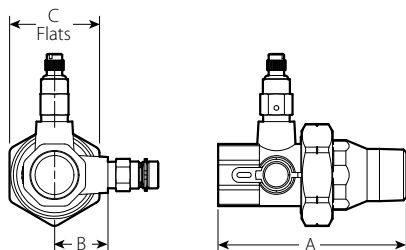
Size						Dimensions						Weight
Nominal			Actual Outside Diameter			A Sweat or Female Threaded End	B	C	D	E	Approx. (Each)	
Inlet	x	Outlet	Inlet	x	Outlet							
inches DN			inches mm									
½ DN15	x	½ DN15	0.840 21.3	x	0.840 21.3	4.10 105	1.90 49	2.80 71	4.00 100	1.50 37	1.4 0.6	
¾ DN20	x	¾ DN20	1.050 26.9	x	1.050 26.9	4.40 112	2.00 51	2.90 73	4.00 100	1.80 46	1.7 0.8	
1 DN25	x	1 DN25	1.315 33.7	x	1.315 33.7	5.00 126	2.20 55	3.30 84	5.30 135	1.80 46	2.1 1.0	
1 ¼ DN32	x	1 ¼ DN32	1.660 42.4	x	1.660 42.4	5.40 136	2.40 60	3.50 89	5.30 135	2.60 67	3.5 1.6	
1 ½ DN40	x	1 ½ DN40	1.900 48.3	x	1.900 48.3	6.10 155	2.80 71	3.90 99	5.90 151	2.60 67	4.9 2.2	
2 DN50	x	2 DN50	2.375 60.3	x	2.375 60.3	6.90 174	3.00 77	4.10 104	5.90 151	3.30 83	7.3 3.3	

NOTE

- Optional tailpieces may be ordered for reductions and for changing end configurations from sweat to threaded or threaded to sweat. If needed, specify optional tailpiece when ordering.

4.1 DIMENSIONS

Series 78U Union Port Fitting



Size						Dimensions				Weight
Nominal Inlet x Outlet inches DN			Actual Outside Diameter Inlet x Outlet inches mm			A Sweat or Female Threaded End inches mm	B inches mm	C inches mm	Approx. (Each) lb kg	
½ DN15	x	½ DN15	0.840 21.3	x	0.840 21.3	3.48 89	0.84 21	1.46 37	0.7 0.3	
¾ DN20	x	½ DN15	1.050 26.9	x	0.840 21.3	3.87 98	1.08 27	1.81 46	1.0 0.5	
		¾ DN20			1.050 26.9	3.87 98	1.08 27	1.81 46	0.9 0.4	
1 DN25	x	½ DN15	1.315 33.7	x	0.840 21.3	4.03 102	1.08 27	1.81 46	1.0 0.5	
		¾ DN20			1.050 26.9	4.03 102	1.08 27	1.81 46	1.1 0.5	
		1 DN25			1.315 33.7	4.14 105	1.08 27	1.81 46	1.1 0.5	
		1 ¼ DN32			1.660 33.7	4.36 111	1.46 37	2.63 67	1.9 0.9	
1 ¼ DN32	x	¾ DN20	1.900 48.3	x	1.050 26.9	4.19 106	1.46 37	2.63 67	2.2 1	
		1 DN25			1.315 33.7	4.19 106	1.46 37	2.63 67	2.2 1.0	
		1 ¼ DN32			1.660 42.4	4.19 106	1.46 37	2.63 67	2.3 1.0	
		1 ½ DN40			1.900 48.3	4.40 112	1.46 37	2.63 67	2.3 1.0	
2 DN50	x	1 DN25	2.375 60.3	x	1.315 33.7	4.47 114	1.76 45	3.26 83	3.1 1.4	
		1 ¼ DN32			1.660 42.4	4.47 114	1.76 45	3.26 83	3.1 1.4	
		1 ½ DN40			1.900 48.3	4.47 114	1.76 45	3.26 83	3.2 1.5	
		2 DN50			2.375 60.3	4.47 114	1.76 45	3.26 83	3.2 1.5	

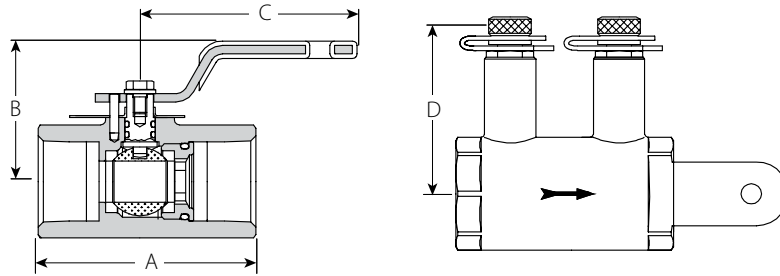
NOTE

- Optional tailpieces may be ordered for reductions and for changing end configurations from sweat to threaded or threaded to sweat. If needed, specify optional tailpiece when ordering.

4.2 DIMENSIONS

TA Series 78BL Balancing Ball Valve

Female NPT



Body Size inches DN	Dimensions				Full Open C _v K _v	Flow Range GPM L/H	Weight
	A inches mm	B inches mm	C inches mm	D inches mm			Approximate (Each) lb kg
1/2 DN50	2.38 60	1.50 38	2.50 64	1.88 48	2.83 2.45	0.38 - 5.30 86.3 - 1204	0.6 0.3
3/4 DN20	2.50 64	1.63 41	2.50 64	2.00 51	6.67 5.77	0.94 - 12.48 213 - 2834	0.8 0.4
1 DN125	3.13 79	2.00 51	4.00 102	2.13 54	10.32 8.93	1.56 - 19.30 354 - 4383	1.3 0.6
1 1/4 DN32	3.38 86	2.25 57	4.00 102	2.25 57	16.31 14.11	2.11 - 30.50 479 - 6927	2.0 0.9
1 1/2 DN40	3.63 92	2.50 64	4.75 121	2.38 60	24.30 21.02	2.68 - 45.40 609 - 10310	2.8 1.3
2 DN50	4.13 105	2.75 70	4.75 121	2.63 67	45.30 39.18	6.18 - 85.00 1404 - 19304	4.4 2.0

4.3 OPTIONAL PARTS

Coil Hose (Optional)



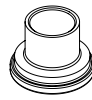
Size inches DN	Inlet Options		Rated Pressure psi kPa	Minimum Bend Radius inches mm	Nominal Length inches mm	Weight
	A Male End Thread	B NPSM MNPT Swivel Union				Approx. (Each) lb kg
1/2 DN15	x 1/2 NPT	1/2	375 2585	2.6 66.7	24 610	0.5 0.2
3/4 DN20	x 3/4 NPT	3/4	300 2068	4.5 114.3	24 610	1.0 0.5
1 DN25	x 1 NPT	1	300 2068	5.5 139.7	24 610	1.5 0.7
1 1/4 DN32	x 1 1/4 NPT	1 1/4	225 1550	6.8 171.5	24 610	2.0 0.9
1 1/2 DN40	x 1 1/2 NPT	1 1/2	150 1034	8.4 212.7	24 610	4.4 2.0
2 DN50	x 2 NPT	2	150 1034	11.3 285.8	24 610	4.8 2.2

4.4 OPTIONAL PARTS

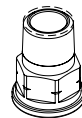
Series 78T/78U Union Tailpieces (Optional)



Female Tailpiece



Sweat Tailpiece



Male Tailpiece

Size		Victaulic Part Code		
Nominal inches		Female Tailpiece	Sweat Tailpiece	Male Tailpiece
1/2	x 1/2	P00478Y304	P00478Y504	P00478U404
3/4	x 1/2	P00678Y304	P00678Y504	P00678U404
	3/4	P00678Y306	P00678Y506	P00678U406
1	x 1/2	P00678Y304*	P00678Y504*	P00678U404*
	3/4	P00678Y306*	P00678Y506*	P00678U406*
	1	P00678Y310	P00678Y510*	P00678U410*
1 1/4	x 1/2	—	—	P01278U404
	3/4	P01278Y306	P01278Y506	P01278U406
	1	P01278Y310	P01278Y510	P01278U410
	1 1/4	P01278Y312	P01278Y512	P01278U412
1 1/2	x 1/2	—	—	P01278U404*
	3/4	P01278Y306*	P01278Y506*	P01278U406*
	1	P01278Y310*	P01278Y510*	P01278U410*
	1 1/4	P01278Y312*	P01278Y512*	P01278U412*
	1 1/2	P01278Y314	P01278Y514*	P01278U414*
2	x 1	—	—	P02078U410*
	1 1/4	P02078Y312*	P01278Y512*	P02078U412*
	1 1/2	P02078Y314*	P01278Y514*	P02078U414*
	2	P02078Y320	P02078Y520*	P02078U420*

NOTE

* When swapping a tailpiece from the line size female tailpiece provided, a union collar is also needed. The 1", 1 1/2" and 2" female tailpieces have an integrated collar that cannot be reused with these tailpieces. See "Union Collar" chart in section 4.5 for more information.

4.5 OPTIONAL PARTS

Union Collar

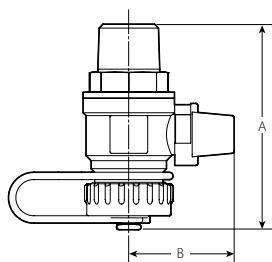


Valve Size	Victaulic Part Code
Nominal inches	
1/2	P00478Y204
3/4 - 1	P00678Y206
1 1/4 - 1 1/2	P01278Y212
2	P02078Y220

4.6 OPTIONAL PARTS

Hose End Drain Valve (Optional)

A hose end drain valve is factory-installed on the Series 78T. This product can also be mounted on the Series 78U or provided loose for other piping needs.

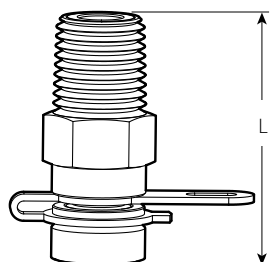


Size	Dimensions		Part Code
	A	B	
NPT	inches	inches	
	mm	mm	
1/4	2.04	1.37	P00278YDRN
6	52	35	
1/2	2.74	1.53	P00478YDRN
13	70	39	

4.7 OPTIONAL PARTS

Probe Port (Optional)

For Series 78T



Connection Size	Dimensions	Part Code
	L	
	inches	
	mm	
1/4 NPT	1.55	P00278YPTP
	39	

4.8 OPTIONAL PARTS

Port Extender (Optional)

For Series 78T & 78U

The port extender is used to extend accessories to clear 2"/50 mm or 4"/100 mm insulation (M x F ¼"). Extends probe port and air vent.

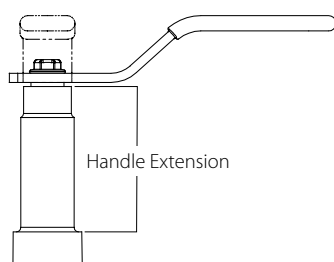


Length inches mm	Victaulic Part Code
2 50	P01278Y2XT
4 100	P04378Y0XT

4.9 OPTIONAL PARTS

Handle Extension (Optional)

For Series 78T

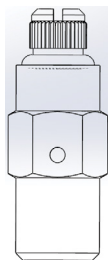


Valve Inlet Size	Victaulic Part Code	
	2" Handle Extension	4" Handle Extension
½ – ¾"	P00478Y2HL	P00478Y4HL
1 – 1 ¼"	P01278Y2HL	P01278Y4HL
1 ½ – 2"	P02078Y2HL	P02078Y4HL

4.10 OPTIONAL PARTS

Air Vent

A manual air vent is factory-installed on the Series 78U. This product can also be mounted on the Series 78T or provided loose for other piping needs.



Connection Size	Part Code
¼ NPT	P00278UMAV

4.11 OPTIONAL PARTS

Replacement O-Rings

Valve Size inches	Series 78Y, 78T & 78U End Face O-Rings (Sold in Bags of 10)	Series 78Y Strainer O-Rings (Sold in Bags of 10)
½	P004799ORG	G00478YGSK
¾ – 1	P006799ORG	G00678YGSK
1¼ – 1½	P012799ORG	G01278YGSK
2"	P020799ORG	G02078YGSK

4.12 OPTIONAL PARTS

Hose Adapter Replacement Parts

Size inches	Part Code			
	Male Adapter	Female Adapter	Sweat Adapter	O-Rings (Bag of 10)
½	P004799MOR	P004799FOR	P004799SOR	K004799HOR
¾	P006799MOR	P006799FOR	P006799SOR	K006799HOR
1	P010799MOR	P010799FOR	P010799SOR	K010799HOR
1¼	P012799MOR	P012799FOR	P012799SOR	K012799HOR
1½	P014799MOR	P014799FOR	P014799SOR	K014799HOR
2	P020799MOR	P020799FOR	P020799SOR	K020799HOR

5.0 PERFORMANCE

Cv/Kv values for flow of water at +60°F/+16°C are shown in the table.

Formulas for Cv and Kv values

$$\Delta P = Q^2 / C_v^2$$

$$\Delta P = Q^2 / K_v^2$$

Where:

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

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

Flow Coefficient	Cv	Kv
Q (Flow)	GPM	m³/hr
ΔP (Pressure Drop)	psi	bar

Series 78T Ball Valve Union Combination

Size		Flow Coefficient (Fully Open)	
Nominal inches DN	Actual Outside Diameter inches mm	Threaded Cv Kv	Sweat Cv Kv
½ DN15	0.840 21.3	10.4 9.0	7.5 6.5
¾ DN20	1.050 26.9	20.4 17.7	17.0 14.7
1 DN25	1.315 33.7	39.4 34.1	34.0 29.4
1 ¼ DN32	1.660 42.4	63.2 54.6	54.9 47.5
1 ½ DN40	1.900 48.3	98.4 85.1	85.5 74.0
2 DN50	2.375 60.3	169.3 146.4	149.7 129.5

Series 78U Union Port Fitting

Size		Flow Coefficient (Fully Open)	
Nominal inches DN	Actual Outside Diameter inches mm	Threaded Cv Kv	Sweat Cv Kv
½ DN15	0.840 21.3	9.8 6.1	6.1 5.3
¾ DN20	1.050 26.9	21.2 17.2	17.3 14.9
1 DN25	1.315 33.7	41.4 35.2	35.3 30.4
1 ¼ DN32	1.660 42.4	76.0 6.2	61.0 52.6
1 ½ DN40	1.900 48.3	103.0 6.8	82.7 71.3
2 DN50	2.375 60.3	159.5 137.9	127.9 110.3

Coil Hose

Size		Nominal Length inches mm	Flow Coefficient (Fully Open)	
Nominal inches DN	Actual Outside Diameter inches mm		Straight Form Cv Kv	90° Bend Cv Kv
½ DN15	0.840 21.3	24 600	3.5 3.0	3.4 3.0
¾ DN20	1.050 26.9	24 600	10.0 8.7	9.6 8.3
1 DN25	1.315 33.7	24 600	18.9 16.3	18.3 15.8
1 ¼ DN32	1.660 42.4	24 600	33.0 28.4	32.6 28.1
1 ½ DN40	1.900 48.3	24 600	63.1 54.4	60.2 51.9
2 DN50	2.375 60.3	24 600	114.6 98.8	Not Recommended

5.1 PERFORMANCE

TA Series 78BL Balancing Ball Valve

Sizing

When Δp and design flow is known, calculate the C_v by using the formula provided. Select the valve size so the setting will be approximately 75% of total opening.

$$C_v = 1.52 \frac{q}{\sqrt{\Delta p}} \quad q \text{ in GPM, } \Delta p \text{ in ft WG}$$

$$C_v = \frac{q}{\sqrt{\Delta p}} \quad q \text{ in GPM, } \Delta p \text{ in psi}$$

C_v Versus Handle Position Table - Threaded

Handle Position	Average C_v					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
0	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.03	0.03	0.03	0.00	0.06
2	0.03	0.12	0.18	0.16	0.17	0.60
3	0.08	0.23	0.36	0.45	0.51	1.34
4	0.14	0.32	0.58	0.74	0.95	2.33
5	0.21	0.50	0.83	1.13	1.43	3.30
7.5	0.43	0.92	1.54	2.21	3.03	6.45
10	0.71	1.63	2.54	3.80	5.41	11.13
12.5	1.10	2.61	3.90	5.95	8.91	17.77
15	1.63	3.76	5.73	8.65	13.02	26.12
17.5	2.58	5.89	8.86	13.25	20.14	40.36
20	2.83	6.67	10.32	16.31	24.27	45.31

5.2 PART CODES

Kit Description	Nominal Kit Size	Expected Control Valve Size (Series 78U Outlet Size)	Balancing Valve Size	Without Customer-Supplied ATC Valve	
				Without PT Ports and Handle Extensions	With PT Ports and Handle Extensions
				Victaulic Figure String	
78T Sweat x Sweat, 78U Sweat x Male Union, 78BL Male Union x Sweat without hoses	1/2	1/2	1/2	K9TASAS00000ASAM0LAMAS000	K9TASAS00000ASAM0LAMAS020
	3/4	1/2	3/4	K9TBSBS00000BSAM0LAMBS000	K9TBSBS00000BSAM0LAMBS020
	3/4	3/4	3/4	K9TBSBS00000BSBM0LBMS000	K9TBSBS00000BSBM0LBMS020
	1	1/2	1	K9TCSCS00000CSAM0LAMCS000	K9TCSCS00000CSAM0LAMCS020
	1	3/4	1	K9TCSCS00000CSBM0LBMC000	K9TCSCS00000CSBM0LBMC020
	1	1	1	K9TCSCS00000CSCM0LCMC000	K9TCSCS00000CSCM0LCMC020
	1 1/4	1 1/4	1 1/4	K9TDS000000DSDM0LDMD000	K9TDS000000DSDM0LDMD020
	1 1/2	1 1/2	1 1/2	K9TESES00000ESEM0LEMES000	K9TESES00000ESEM0LEMES020
78T Fem x Fem, 78U Fem x Male Union, 78BL Male Union x Fem without hoses	1/2	1/2	1/2	K9TAF000000AFAM0LAMAF000	K9TAF000000AFAM0LAMAF020
	3/4	1/2	3/4	K9TBF000000BFAM0LAMB000	K9TBF000000BFAM0LAMB020
	3/4	3/4	3/4	K9TBF000000BFBM0LBMB000	K9TBF000000BFBM0LBMB020
	1	1/2	1	K9TCFCF00000CFAM0LAMCF000	K9TCFCF00000CFAM0LAMCF020
	1	3/4	1	K9TCFCF00000CFBM0LBMC000	K9TCFCF00000CFBM0LBMC020
	1	1	1	K9TCFCF00000CFCM0LCMC000	K9TCFCF00000CFCM0LCMC020
	1 1/4	1 1/4	1 1/4	K9TDF000000DFDM0LDMD000	K9TDF000000DFDM0LDMD020
	1 1/2	1 1/2	1 1/2	K9TEFEF00000EFEM0LEMEF000	K9TEFEF00000EFEM0LEMEF020
78T Fem x Fem w/2' Male x Male Union Hose, 78U Fem x Male Union w/2' Male x Male Union Hose, 78BL Male Union x Fem	1/2	1/2	1/2	K9TAF000000AEAFAM0LAMAF000	K9TAF000000AEAFAM0LAMAF020
	3/4	1/2	3/4	K9TBF000000BEBEFAM0LAMB000	K9TBF000000BEBEFAM0LAMB020
	3/4	3/4	3/4	K9TBF000000BEBEFBM0LBMB000	K9TBF000000BEBEFBM0LBMB020
	1	1/2	1	K9TCFCF00000CECFAM0LAMCF000	K9TCFCF00000CECFAM0LAMCF020
	1	3/4	1	K9TCFCF00000CECFBM0LBMC000	K9TCFCF00000CECFBM0LBMC020
	1	1	1	K9TCFCF00000CECFCM0LCMC000	K9TCFCF00000CECFCM0LCMC020
	1 1/4	1 1/4	1 1/4	K9TDF000000DEDFDM0LDMD000	K9TDF000000DEDFDM0LDMD020
	1 1/2	1 1/2	1 1/2	K9TEFEF000000EFFFFEM0LEMEF000	K9TEFEF000000EFFFFEM0LEMEF020
	2	2	2	K9TFFFF00000FFFM0LFMFF000	K9TFFFF00000FFFM0LFMFF020
	1/2	1/2	1/2	K9TAF000000AEAFAM0LAMAF000	K9TAF000000AEAFAM0LAMAF020
	3/4	1/2	3/4	K9TBF000000BEBEFAM0LAMB000	K9TBF000000BEBEFAM0LAMB020
	3/4	3/4	3/4	K9TBF000000BEBEFBM0LBMB000	K9TBF000000BEBEFBM0LBMB020
	1	1/2	1	K9TCFCF00000CECFAM0LAMCF000	K9TCFCF00000CECFAM0LAMCF020
	1	3/4	1	K9TCFCF00000CECFBM0LBMC000	K9TCFCF00000CECFBM0LBMC020
	1	1	1	K9TCFCF00000CECFCM0LCMC000	K9TCFCF00000CECFCM0LCMC020
	1 1/4	1 1/4	1 1/4	K9TDF000000DEDFDM0LDMD000	K9TDF000000DEDFDM0LDMD020
	1 1/2	1 1/2	1 1/2	K9TEFEF000000EFFFFEM0LEMEF000	K9TEFEF000000EFFFFEM0LEMEF020
	2	2	2	K9TFFFF00000FFFM0LFMFF000	K9TFFFF00000FFFM0LFMFF020

5.2 PART CODES (CONTINUED)

Kit Description	Nominal Kit Size	Expected Control Valve Size (Series 78U Outlet Size)	Balancing Valve Size	With Customer-Supplied ATC	
				Without PT Ports and Handle Extensions	With PT Ports and Handle Extensions
				Victaulic Figure String	
78T Sweat x Sweat, 78U Sweat x Male Union, 78BL Male Union x Sweat without hoses	1/2	1/2	1/2	KVTASAS00000ASAM0LAMAS000	KVTASAS00000ASAM0LAMAS020
	3/4	1/2	3/4	KVTBSBS00000BSAM0LAMBS000	KVTBSBS00000BSAM0LAMBS020
	3/4	3/4	3/4	KVTBSBS00000BSBM0LBMS000	KVTBSBS00000BSBM0LBMS020
	1	1/2	1	KVTCSCS00000CSAM0LAMCS000	KVTCSCS00000CSAM0LAMCS020
	1	3/4	1	KVTCSCS00000CSBM0LBMS000	KVTCSCS00000CSBM0LBMS020
	1	1	1	KVTCSCS00000CSCM0LCMS000	KVTCSCS00000CSCM0LCMS020
	1 1/4	1 1/4	1 1/4	KVTDSDS00000DSDM0LDMS000	KVTDSDS00000DSDM0LDMS020
	1 1/2	1 1/2	1 1/2	KVTESES00000ESEM0LEMES000	KVTESES00000ESEM0LEMES020
78T Fem x Fem, 78U Fem x Male Union, 78BL Male Union x Fem without hoses	2	2	2	KVTFFS00000FSFM0LFMS000	KVTFFS00000FSFM0LFMS020
	1/2	1/2	1/2	KVTAFAF00000AFAM0LAMAF000	KVTAFAF00000AFAM0LAMAF020
	3/4	1/2	3/4	KVTBFBF00000BFAM0LAMB000	KVTBFBF00000BFAM0LAMB020
	3/4	3/4	3/4	KVTBFBF00000BFBM0LBMB000	KVTBFBF00000BFBM0LBMB020
	1	1/2	1	KVTCFCF00000CFAM0LAMCF000	KVTCFCF00000CFAM0LAMCF020
	1	3/4	1	KVTCFCF00000CFBM0LBMC000	KVTCFCF00000CFBM0LBMC020
	1	1	1	KVTCFCF00000CFCM0LCMC000	KVTCFCF00000CFCM0LCMC020
	1 1/4	1 1/4	1 1/4	KVTDDFD00000DFDM0LDMD000	KVTDDFD00000DFDM0LDMD020
78T Fem x Fem w/2' Male x Male Union Hose, 78U Fem x Male Union w/2' Male x Male Union Hose, 78BL Male Union x Fem	1 1/2	1 1/2	1 1/2	KVTEFEF00000EFEM0LEMEF000	KVTEFEF00000EFEM0LEMEF020
	2	2	2	KVTFFFF00000FFFM0LFMFF000	KVTFFFF00000FFFM0LFMFF020
	1/2	1/2	1/2	KVTAFAF0AEAEAFAM0LAMAF000	KVTAFAF0AEAEAFAM0LAMAF020
	3/4	1/2	3/4	KVTBFBF0BEBEBFAM0LAMB000	KVTBFBF0BEBEBFAM0LAMB020
	3/4	3/4	3/4	KVTBFBF0BEBEBFAM0LBMB000	KVTBFBF0BEBEBFAM0LBMB020
	1	1/2	1	KVTCFCF0CECECFAM0LAMCF000	KVTCFCF0CECECFAM0LAMCF020
	1	3/4	1	KVTCFCF0CECECFAM0LBMC000	KVTCFCF0CECECFAM0LBMC020
	1	1	1	KVTCFCF0CECECFAM0LCMC000	KVTCFCF0CECECFAM0LCMC020
	1 1/4	1 1/4	1 1/4	KVTDDFD0DEDED0DFDM0LDMD000	KVTDDFD0DEDED0DFDM0LDMD020
	1 1/2	1 1/2	1 1/2	KVTEFEF0EEEEEFEM0LEMEF000	KVTEFEF0EEEEEFEM0LEMEF020
	2	2	2	KVTFFFF0FEFEFFFM0LFMFF000	KVTFFFF0FEFEFFFM0LFMFF020

6.0 NOTIFICATIONS

⚠ WARNING



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

[08.50: Victaulic Balancing Ball Valve TA Series 78BL](#)

[I-KOIL-KIT: Victaulic KOIL-KIT™ Coil Pack Installation and Maintenance Instructions](#)

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. 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.

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