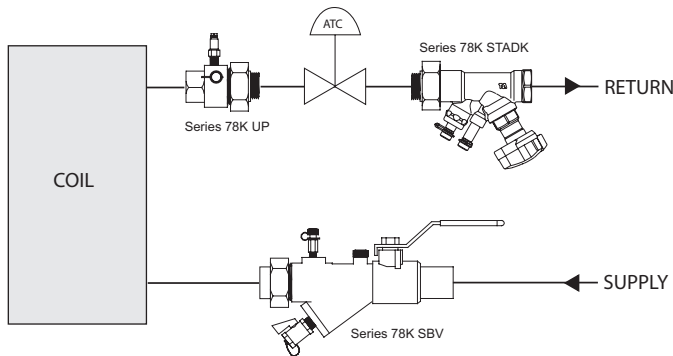


TA Series 78K Circuit Balancing Koil-Kit® 400 psig at 250° F (2758 kPa at 120° C)

KIT DESCRIPTION



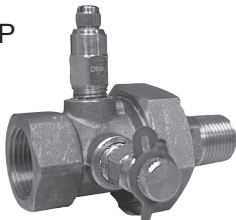
The TA Series 78K Circuit Balancing Koil-Kit® provides a simplified, quality coil circuit installation while ensuring optimal hydronic system design requirements are met. Suitable for hot, cold, treated and untreated systems, the Circuit Balancing Koil-Kit® is a reliable 3-component package featuring:

TA Series UP Union Port Fitting
TA Series 78K STADK Circuit Balancing Valve
TA Series SBV Y-Strainer Ball Valve Combination

TA Series 78K Circuit Balancing Koil-Kit®		
Nominal Dia. In./mm	Aprx. Wgt. Ea Lbs./kg	Part Number
1/2 15	4.1 1,9	K00478K001
3/4 20	4.7 2,1	K00678K001
1 25	7.7 3,5	K01078K001
1 1/4 32	10.0 4,5	K01278K000
1 1/2 40	16.1 7,3	K01478K000
2 50	20.4 9,3	K02078K000

PRODUCT DESCRIPTIONS

UP



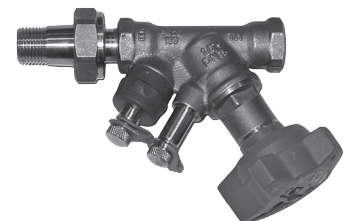
TA Series UP Union Port Fitting

The TA Series UP Union Port Fitting provides a simplified, quality terminal hookup for installation at coil outlet. The UP Union features a port section equipped standard with a manual air vent port on top allowing for optimal positioning at coil outlet and effective venting together with a SuperSeal™ Pressure / Temperature port on the side. Union is equipped with an EDPM "O"-ring.

TA Series 78K STADK Circuit Balancing Valve

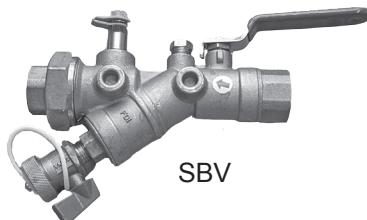
The TA Series 78K STADK Circuit Balancing Valve facilitates computerized balancing, optimal system performance, increased energy efficiency and occupant comfort. The 78K STADK Circuit Balancing Valve features an EDPM seat, 4-Turn digital handwheel with memory, non-rotating stem for positive shut off and a union end. Equipped standard with two SuperSeal™ Pressure / Temperature ports with EDPM seals.

STADK



TA Series SBV Y-Strainer Ball Valve Combination

The TA Series SBV Y-Strainer Ball Valve Combination provides a simplified, quality terminal hookup that protects both coil and modulating valve from pipe scale, sand, or weld slag. The SBV Y-Strainer Ball Valve Combination features a stainless steel strainer (removable without breaking the line), a blow-out proof valve stem, Teflon® packing, plated ball, and a strainer-blowdown & drain valve with hose thread, cap & retainer. Equipped standard with a SuperSeal™ Pressure / Temperature port and extra plugged port on top with a union end.



SBV

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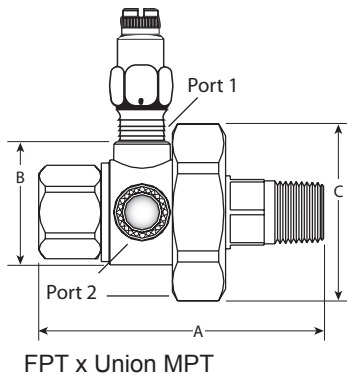
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VICTAULIC® AND KOIL-KIT® ARE REGISTERED TRADEMARKS OF VICTAULIC.
 AMETAL® IS A REGISTERED TRADEMARK OF TOUR & ANDERSSON
 TEFLON® IS A REGISTERED TRADEMARK OF DUPONT



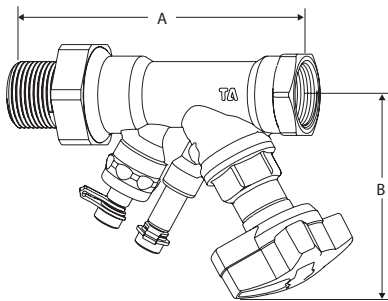
DIMENSIONS

Series 78K UP Union Port Fitting



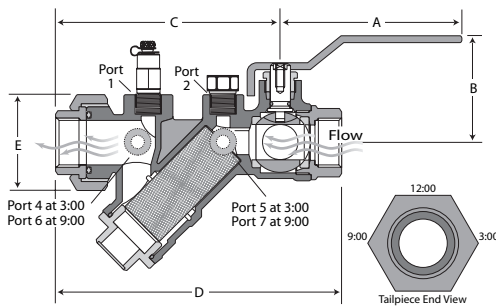
Dimensions - Inches/millimeters					
FPT x Union MPT Nominal Diameter In./mm	Part Number	A	B	C	Aprx. Wgt. Ea Lbs./kg
$\frac{1}{2}$ X $\frac{1}{2}$ 15 x 15	K00478KUP1	3.5 89	0.8 20	1.6 41	0.6 0,3
$\frac{3}{4}$ X $\frac{1}{2}$ 20 x 15	KA5978KUP1	3.7 94	0.9 23	2.2 56	1.0 0,5
1 X $\frac{3}{4}$ 25 x 20	KA8378KUP1	4.1 104	1.0 25	2.4 61	1.2 0,5
$1\frac{1}{4}$ X 1 32 x 25	KB0578KUP0	4.3 109	1.2 30	2.9 74	2.8 1,3
$1\frac{1}{2}$ X $1\frac{1}{4}$ 40 x 32	KB3178KUP0	4.4 112	1.3 33	3.5 89	3.5 1,6
2 X $1\frac{1}{2}$ 50 x 40	KB6778KUP0	4.6 117	1.7 43	3.9 99	5.9 2,7

Series 78K STADK Circuit Balancing Valve



Dimensions - Inches/millimeters				
Union MPT x FPT Nominal Diameter In./mm	Part Number	A	B	Aprx. Wgt. Ea Lbs./kg
$\frac{1}{2}$ X $\frac{1}{2}$ 15 x 15	K00478KCBV	5.75 146	4.0 102	1.7 0,8
$\frac{1}{2}$ X $\frac{3}{4}$ 15 x 20	KX8778KCBV	5.94 151	4.0 102	1.8 0,8
$\frac{3}{4}$ X 1 20 x 25	KA6178KCBV	6.81 173	4.5 114	2.2 1,0
1 X $1\frac{1}{4}$ 25 x 32	KZ9078KCBV	7.83 199	4.31 109	2.8 1,3
$1\frac{1}{4}$ X $1\frac{1}{2}$ 32 x 40	KZ9178KCBV	8.21 209	4.75 121	3.6 1,6
$1\frac{1}{2}$ X 2 40 x 50	KJ8678KCBV	9.02 229	4.75 121	5.3 2,4

Series 78K SBV Y-Strainer Ball Valve Combination



Dimensions - Inches/millimeters							
Nominal Dia. In./mm	Part Number	A	B	C	D	E	Aprx. Wgt. Ea Lbs./kg
$\frac{1}{2}$ 15	K00478KSBV	3.9 99	2.0 51	4.8 122	6.2 157	2.1 53	2.0 0,9
$\frac{3}{4}$ 20	K00678KSBV	3.9 99	2.0 51	4.8 122	6.2 157	2.1 53	2.0 0,9
1 25	K01078KSBV	4.7 119	2.6 66	6.8 173	8.6 218	2.8 71	4.5 2,0
$1\frac{1}{4}$ 32	K01278KSBV	4.7 119	2.6 66	6.8 173	8.6 218	2.8 71	4.5 2,0
$1\frac{1}{2}$ 40	K01478KSBV	5.5 140	3.5 89	7.9 201	10.0 254	3.8 97	9.3 4,2
2 50	K02078KSBV	5.5 140	3.5 89	7.9 201	10.0 254	3.8 97	9.3 4,2

PERFORMANCE

Series 78K STADK Circuit Balancing Valve

C_v Values for Various Handle Settings

No. of Turns	C _v Values for Sizes listed below §					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
0.50	0.15	0.59	0.70	1.32	2.03	2.97
1.00	0.25	0.88	1.19	2.20	3.83	4.87
1.50	0.36	1.38	2.44	3.60	5.34	8.35
2.00	0.66	2.20	4.20	5.40	7.08	13.60
2.50	1.02	3.24	6.15	8.24	10.20	18.80
3.00	1.60	4.49	8.00	11.00	14.60	24.90
3.50	2.30	5.51	9.28	13.70	18.60	30.70
4.00*	2.92	6.61	10.09	16.50	22.30	38.00

§ C_v + GPM at a ΔP of 1 PSI (7 kPa) through the valve at any given setting.

1 PSI = 2.31 ft. of H₂O.

* Full open valve.

Series 78K SBV Y-Strainer Ball Valve Combination

Flow Coefficients - C_v

Nominal Dia. In./mm	Part Number	C _v
1/2 15	K00478KSBV	7.6
3/4 20	K00678KSBV	8.1
1 25	K01078KSBV	18.9
1 1/4 32	K01278KSBV	20.0
1 1/2 40	K01478KSBV	43.5
2 50	K02078KSBV	44.3

C_v's based on a clean 20 mesh stainless steel strainer.

MATERIAL SPECIFICATIONS

Series 78K UP Union Port Fitting

Body: Ametal® dezincification-resistant copper alloy

Union: Brass with EPDM O-ring

Series 78K STADK Circuit Balancing Valve

Body: Ametal® dezincification-resistant copper alloy

Union: Brass with EPDM O-ring

Trim: Ametal® dezincification-resistant copper alloy
(Bonnet, Stem, Restriction cone, and Seat)

Seals: EPDM O-ring
(Seat, Stem, and Probe)

Handwheel: Red Polyamide plastic.

Series 78K SBV Y-Strainer Ball Valve Combination

Body: Ametal® dezincification-resistant copper alloy

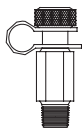
Union: Brass with EPDM O-ring

Ball Valve: Teflon® packing, brass packing nut, plated ball, steel handle with vinyl grip.
Blowout-proof stem end connection available FPT.

Strainer: 20 Mesh Stainless Steel

OPTIONS

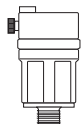
Pressure/Temperature Probe Port



Part No. K00178KPTP

1/4" MPT. Brass with cap and strainer. EPDM seal.

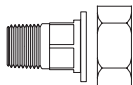
Automatic Air Vent



Part No. K00178KAAV

1/4" MPT. Brass automatic air vent. Polypropylene float material with a nylon cap.

Union Tailpiece with Nut



Brass MPT tailpiece and union.
Nut, EPDM O-ring.

Union Tailpiece			
Nominal Dia. In./mm	Part Number	Nominal Dia. In./mm	Part Number
1/2 15	K00478KTPM	1 1/4 32	K00478KTPM
3/4 20	K00678KTPM	1 1/2 40	K00678KTPM
1 25	K01078KTPM	2 50	K01078KTPM



WCAS-6LMPYW