Machine inserted corporation stops were developed by Hieronymus Mueller in conjunction with his development of the drilling and tapping machine used to make pressure taps in water mains. During the development of the machine inserted corporation stop, Mr. Mueller designed an inlet thread which became known as the MUELLER or "CC" thread. This thread form was eventually adopted by the American Water Works Association and is listed in ANSI/ AWWA Standard C800 as the AWWA Taper thread.

MUELLER Co. pioneered other design concepts in the waterworks industry such as the copper flare connection, MUELLER 110® Compression Connection and the MUELLER ORISEAL® Valves, which use O-ring seals to assure leak-tight performance.

MUELLER Co. offers corporation stops in three designs: machined key (commonly referred to as ground key), ORISEAL type (1-1/2" and 2" sizes only) and ball type.

All three designs are available with a wide range of inlet/outlet combinations including the MUEL-LER 110 Compression Connection and Pack Joint Connection. These three designs are all compatible with the MUELLER line of drilling and tapping machines, and small drilling machines.

MUELLER 300™ Ball Type Corporation Valves

- ☐ BLOW-OUT PROOF STEM DESIGN -prevents separation and assures dependable, safe operation.
- DOUBLE O-RING STEM SEALS - are supported in precision machined grooves and provide secure, leak tight sealing.
- ☐ STAINLESS STEEL REINFORCED SEAT SEAL - assures reliable seal under full flow and pressure.
- □ 300 PSIG -maximum working pressure.

- □ HEAVY BRASS **COMPONENTS** are constructed of 85-5-5-5 ASTM B62 brass for strength and durability.
- ☐ EXTRA STRONG key to ball connection provides strong, reliable performance and resists breakage.

☐ STRAIGHT-DESIGN allows maximum flow with minimum pressure loss.

☐ OUTLETS - include copper flare connection, MUEL-LER 110 Compression Connection, MUELLER INSTA-TITE, Pack Joint Connection and iron pipe thread connection.

STEM ROTATION - full 360 degree.

- MANUFACTURED AND TESTED - to ANSI/AWWA C800 standard.
- INLET THREADS - are either AWWA taper (MUELLER "CC") or AWWA iron pipe.
- **END PIECE O-RING** provides secondary seal to prevent leakage.
- ☐ FLUOROCARBON COATED BALL - ensures smooth, easy turning operation.



CORPORATION VALVES TOOLS & MISCELLANEOUS EQUIPMENT

Rev 4-0

MUELLER® Drilling and Tapping Machine equipment required to install corporation valves having female I.P. thread outlet

Valve size (nominal)		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Combined drill and ta section 1 for part num	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
B-101/B-100 inserting tool		680630	680631	680632	-	-	-
A-3 inserting tool		-	-	680632	61212	61213	61214
Maximum allowable size drill	AWWA I.P.	7/16"	11/16"	7/8"	1-1/8"	1-7/16"	1-3/4" *
or shell cutter - see section 2 for part numbers	CC (AWWA taper)	7/16"	11/16"	15/16"	1-1/8"	1-7/16"	1-15/16" *
Mega-Cut TM /E-5 machine adapter	Mega-Cut TM /E-5 machine adapter nipple		36920	36918	36733	503435	78907
D-5 machine adapter nipple	-	33556	36323	36195	36196	36188	
Tru-Cut/PL-2 machine adapter nip max. wall PVC	ople for use on 1.125"	-	-	-	-	-	-

MUELLER Drilling and Tapping Machine equipment required to install corporation valves having male I.P thread outlet

Valve size (nominal)		3/4"	1"	1-1/4"	1-1/2"	2"
Combined drill and tap size—see section 1 for part numbers		3/4"	1"	1-1/4"	1-1/2"	2"
B-101/B-100 inserting tool	B-101/B-100 inserting tool		680596	-	-	-
A-3 inserting tool	A-3 inserting tool		680596	680597	83065	83066
Maximum allowable size drill or	AWWA I.P.	11/16"	7/8"	1-1/8"	1-7/16"	1-3/4" *
shell cutter —- see section 2 for part numbers	CC (AWWA taper)	11/16"	15/16"	-	1-7/16"	1-15/16" *
Mega-Cut TM /E-5 machine adapter r	nipple	36919	36917	36928	501948	508200
D-5 machine adapter nipple		36910	36911	36912	36913	36525
Tru-Cut/PL-2 machine adapter nipp 1.125" maximum wall PVC	ole for use with	507630	507631	-	-	-

MUELLER Drilling and Tapping Machine equipment required to install corporation valves having increase I.P. thread outlet

								-
Valve size (nominal)		1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
Combined drill and tap section 1 for part num	size—see bers	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
B-101/B-100 inserting tool		680595	680595	680596	680597	-	-	-
A-3 inserting tool		-	-	-	680597	83065	83066	83157
Maximum allowable size drill or	AWWA I.P.	7/16"	9/16"	3/4"	15/16"	-	1-7/16"	1-3/4
shell cutter —- see section 2 for part numbers	CC (AWWA taper)	7/16"	9/16"	11/16"	15/16"	1"	1-7/16"	1-15/16"
Mega-Cut TM /E-5 machine adapter nipple		36919	36919	36917	36928	501948	508200	-
D-5 machine adapter nipple		-	-	36911	36912	36913	36525	36526

MUELLER Drilling and Tapping Machine equipment required to install corporation valves having MUELLER coupling thread outlet

Valve size (nominal)	/alve size (nominal)		5/8"	3/4"	1"
Combined drill and tap section 1 for part num	size—see bers	1/2"	5/8"	3/4"	1"
B-101/B-100 inserting tool		680609	680610	680611	680612
A-3 inserting tool	A-3 inserting tool		-	-	680612
Maximum allowable size drill or	AWWA I.P.	7/16"	9/16"	3/4"	15/16"
shell cutter—- see section 2 for part numbers	CC (AWWA taper)	-	-	11/16"	1"
Mega-Cut TM /E-5 machine adapter nipple		75493	75494	75495	75496
D-5 machine adapter nipple		-	-	61165	77375

MUELLER Drilling and Tapping Machine equipment required to install corporation valves shown in chart heading

Valve size (nominal)		1" H-9991	1" H-9995	1" H-9992	3/4" H-15002	1" H-15002
Combined drill and tap size—see section 1 for part numbers		1"	1"	1"	3/4"	1"
B-101/B-100 inserting tool		680612	680612	680597	680603	680604
A-3 inserting tool		680612	680612	680597	-	680604
Maximum allowable size drill or	AWWA I.P.	-	-	-	11/16"	15/16"
shell cutter—- see section 2 for part numbers	CC (AWWA taper)	-	-	-	11/16"	15/16"
Mega-Cut TM /E-5 machine adapter nipple		-	-	-	43900	43870
D-5 machine adapter nipple		-	-	-	45380	51104

^{*} Ball and ORI-CORP® Corporation valves IP and CC inlet: 1-7/8" maximum.

CORPORATION VALVE COPPER FLARE TOOLS Mueller Co. & MISCELLANEOUS

Shaded area indicates changes Rev. 9-09

MUELLER® Drilling and Tapping Machine equipment required to install corporation valves having copper flare connection outlet

Valve size (nominal) (If two numbers: 1	nlet x Outlet)	1/2"	1/2"x3/4"	5/8"x3/4"	3/4"	3/4"x1"	1"	1-1/4"	1-1/2"	2"
Combined drill and tap size - see section 1 for part numbers			1/2"	5/8"	3/4"	3/4"	1"	1-1/4"	1-1/2"	2"
B-101/B-100 inserting tool			680600	680600	680600	680601	680601	-	-	-
A-3 inserting tool			-	-	-	-	680601	680602	88640	88641
Maximum allowable size drill or shell	AWWA I.P.	7/16"	7/16"	9/16"	11/16"	11/16"	7/8"	1-1/8"	1-7/16"	1-3/4"*
cutter - see section 2 for part numbers	CC (AWWA taper)	7/16"	7/16"	9/16"	11/16"	11/16"	15/16"	1-3/16"	1-7/16"	1-15/16"*
Mega-Cut TM /E-5 machine adapter nipple		63796	52019	52019	52019	36750	36750	682256	501947	508201
D-5 machine adapter nipple		37900	37902	37902	37902	37903	37903	682259	37905	37906
Tru-Cut/PL-2 machine adapter nipple for use on 1.125" max. wall PVC			-	-	507632	507633	507633	-	-	-

^{*} Ball and ORI-CORP® Corporation valves IP and CC inlet: 1-7/8" maximum.

I.P. thread copper flare connection optional equipment

I.P. thread copper flare nut

This connection thread is one size larger than the copper tubing to be flared.



CATALOG NUMBER: H-15432

Solid copper disc

Used with regular copper flare nut to shut off line.



CATALOG NUMBER: H-15535

Brass cap

Fits on copper flare spud to cap off line.

CATALOG NUMBER: H-15540

1-1/2"

1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	3/4"	
							=

Flaring Tool



Used to make 45° flare on type "K" copper tubing. CATALOG NUMBER: H-18000

1/2" 5/8" 3/4"	1"	1-1/4"	1-1/2"	2"
----------------	----	--------	--------	----

Drilled Flaring Tool



Used to make 45° flare on type "K' copper tubing without shutting off water-drilled to exhaust water at right angle to tubing.

CATALOG NUMBER: **H-18005**

	3/4"	1"
٠,		

Reamer



Used to ream the inside of type "K" copper tubing to remove burrs prior to flaring.

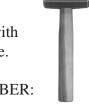
CATALOG NUMBER: H-18010

_			
1.	/2"	3/4"	1"

Brass Hammer

H-18025

Solid brass head with 10" wooden handle. Weight 2- 3/4 lb. **CATALOG NUMBER:**



Compression to Flare Push-in-Bushing



CATALOG NUMBER: 682332

Corporation Valve Wrench



For operating up to and including 1" corporation and valves.

CATALOG NUMBER: **H-10048**

Note: When using any striking tool, safety eye protection must be worn. Inspect hammer and tools for any damage after each use and repair or replace if mushrooming or chipping evident.



Rev. 9-09

CORPORATION VALVE PACK JOINT TOOLS AND MISCELLANEOUS

MUELLER® Drilling and Tapping Machine equipment required to install corporation having MUELLER Pack Joint Connection outlets

Valve size (nominal) (If two numbers: Inlet x Ou	tlet)	3/4" CTS	IPS PE & PVC	3/4"x1" CTS	IPS PE & PVC	1" CTS	IPS PE & PVC	1-1/2" CTS	IPS PE	IPS PVC	2" CTS		IPS PVC
Combined drill and tap size—see section 1 for part numbers		3/4"		3/4"		1"		1-1/2"			2"		
B-101/B-100 inserting tool		680600		680601		680601		-			-		
A-3 inserting tool		-		-		680601		680421			680422		
Maximum allowable size drill	AWWA I.P.	11/16"		11/16"		7/8"		1-7/16"	1-7/16"		1-3/4"*	1-3/4"*	
or shell cutter - see section 2 for part numbers	CC (AWWA taper)	11/16"		11/16"		15/16"		1-7/16"	1-7/16"		1-15/16"*	1-15/16"*	
Mega-Cut TM /E-5 machine adapte	Mega-Cut TM /E-5 machine adapter nipple		508919	36750	682256	36750	682256	501949	508199**	682257	508199	682258	682258
D-5 machine adapter nipple		37902	508917	37903	682259	37903	682259	507644	507645**	682033	507645	682034	682034
Tru-Cut/PL-2 machine adapter nipple for use on 1.125" max. wall PVC		507632	509050	507633		507633	682290	-			-		

^{*} Ball and ORI-CORP® Corporation valves IP and CC inlet: 1-7/8" maximum. ** Adapter is also used or 2" CTS 110

Tubing, pipe and liners used with MUELLER Pack Joint Connection

Nominal size of	Material*	Tubing or pipe	Tubing or pipe	Tubing or pipe	Liner part
connection		O.D. range - inches	O.D. range - inches	I.D. range - inches	number
3/4" CTS	Type "K" copper	0.872 - 0.878	0.061 - 0.069	-	-
	Polyethylene	0.871 - 0.879	0.097 - 0.107	0.657 - 0.685	528704
1" CTS	Type "K" copper	1.121 - 1.129	0.061 - 0.069	-	-
	Polyethylene	1.120 - 1.130	0.125 - 0.137	0.846 - 0.880	528705
1-1/2" CTS	Type "K" copper	1.621 - 1.630	0.067 - 0.077	-	-
	Polyethylene	1.619 - 1.631	0.181 - 0.199	1.221 - 1.269	528706
2" CTS	Type "K" copper	2.120 - 2.130	0.076 - 0.090	-	-
	Polyethylene	2.119 - 2.131	0.236 - 0.260	1.599 - 1.659	528707
3/4" IPS	Polyethylene	1.045 - 1.110	0.118 - 0.138	0.809 - 0.834	505141
	3/4" Sch. 40 PVC	1.046 - 1.054	0.113 - 0.133	0.780 - 0.828	509759
	3/4" Sch. 80 PVC	1.046 - 1.054	0.154 - 0.174	0.698 - 0.746	509760
1" IPS	Polyethylene	1.329 - 1.399	0.150 - 0.170	1.029 - 1.059	505142
	1" Sch. 40 PVC	1.310 - 1.320	0.133 - 0.153	-	-
	1" Sch. 80 PVC	1.310 - 1.320	0.179 - 0.200	-	-
1-1/4" IPS	Polyethylene	1.754 - 1.832	0.197 - 0.221	1.360 - 1.390	312787
1-1/2" IPS	Polyethylene	2.05 - 2.141	0.230 - 0.258	1.590 - 1.625	529116
	1-1/2" Sch. 40 PVC	1.894 - 1.906	0.145 - 0.165	-	-
	1-1/2" Sch. 80 PVC	1.894 - 1.906	0.200 - 0.224	-	-
2" IPS	Polyethylene	2.637 - 2.742	0.295 - 0.330	2.047 - 2.082	529117
	2" Sch. 40 PVC	2.369 - 2.381	0.154 - 0.174	-	-
	2" Sch. 80 PVC	2.369 - 2.381	0.218 - 0.244	-	_

^{*}Type "K" soft copper tubing per ASTM B88; CTS polyethylene (PE) per ASTM D-2737 - SDR-9; IPS polyethylene (PE) per ASTM D-2239 - PE SIDR-7 ;IPS polyvinylchloride (PVC) per ASTM D1785



Liner

MUELLER Pack Joint Connection Kit

Size	Connection kit
3/4" CTS	681921
1" CTS	681922
1-1/2" CTS	681923
2" CTS	681924



Connection Kit (includes Pack Joint, Gasket and Washer)

Corporation Valve Wrench

For operating up to and including 1" corporation valves.



CORPORATION VALVE MUELLER® INSTA-TITE® TOOLS & MISCELLANEOUS

Mueller Co.

5.13

Shaded area indicates changes Rev. 8-04

MUELLER® Drilling and Tapping Machine equipment required to install corporation valves having MUELLER INSTA-TITE Connection outlets

Valve size (nominal) (If two numbers: Inlet x Outlet)		3/4" CTS PE or IPS PE	3/4" x 1" CTS PE or IPS PE	1" CTS PE or IPS PE
Combined drill and tage section 1 for part num	p size—see bers	3/4"	3/4"	1"
B-101/B-100 inserting tool		680600	680601	680601
A-3 inserting tool		-	-	680601
Maximum allowable size drill	AWWAID	11/16"	11/16"	7/8"
or shell cutter -	AWWAI.F.	11/10	11/10	//6
see section 2 for part numbers	CC (AWWA taper)	11/16"	11/16"	15/16"
Mega-Cut TM /E-5 machine adapter nipple		52019	36750	36750
D-5 machine adapter nipple		37902	37903	37903
Tru-Cut/PL-2 machine adapter n 1.125" max. wall PVC	ipple for use on	507632	507633	507633

Polyethylene PE tubing and pipe used with MUELLER INSTA-TITE Connections

Nominal size of connection	Material	Tubing or pipe O.D. range - inches	Tubing or pipe wall thickness range - inches	Tubing or pipe I.D. range - inches
3/4" CTS PE	Polyethylene PE	0.871 - 0.879	0.097 - 0.107	0.657 - 0.685
1" CTS PE	Polyethylene PE	1.120 - 1.130	0.125 - 0.137	0.846 - 0.880
3/4" IPS PE	Polyethylene PE	1.045 - 1.110	0.118 - 0.138	0.809 - 0.834
1" IPS PE	Polyethylene PE	1.329 - 1.399	0.150 - 0.170	1.029 - 1.059

CTS polyethylene (PE) per ASTM D-2737 - SDR-9 IPS polyethylene (PE) per ASTM D-2239 - PE SIDR-7

MUELLER INSTA-TITE Connection replacement parts

Size	Gripper ring part number†	O-Ring part number
3/4" CTS PE	506325	506324
1" CTS PE	506327	506326
3/4" IPS PE	505885	505883
1" IPS PE	505886	505884



Corporation Valve Wrench

For operating up to and including 1" corporation stops and valves.



†Gasket and gripper band assembly

MUELLER INSTA-TITE Connection optional equipment Pipe beveling tool

To assure proper installation, the end of the pipe or tubing must be properly beveled before it is inserted into the MUELLER INSTA-TITE Connection. MUELLER CO. offers special beveling tool for CTS PE tubing and IPS PE pipe.

PART NUMBER: **H-18015** for 3/4" and 1" CTS tubing PART NUMBER: **H-18017** for 3/4" and 1" IPS pipe

Pipe removal tool

Pipe or tubing may be removed from the MUELLER INSTA-TITE Connection using special removal tools. Use one tool for 3/4" size connection and two tools for 1" size.



PART NUMBER: 506336



CORPORATION VALVE MUELLER 110® TOOLS & MISCELLANEOUS EQUIPMENT

Rev. 9-09

MUELLER Drilling and Tapping Machine equipment required to install corporation valves having **MUELLER 110® Compression Connection outlet**

Valve size (nominal) (If two numbers: Inlet x Outlet)		1/2"	3/4"		3/4" x 1'	'	1"		1-1/2"	2"
		CTS	CTS	IPS PE	CTS	IPS PE	CTS	IPS PE	CTS	CTS
Combined drill and tap size—see section 1 for part numbers		1/2"	3/4"		3/4"		1"		1-1/2"	2"
B-101/B-100 inserting tool		680598	680600	680688	680601	680689	680601	680689	-	-
A-3 inserting tool		-	-	-	-	-	680601	680689	680421	680422
Maximum allowable size drill	AWWA I.P.	7/16"	11/16"	11/16"	11/16"	11/16"	7/8"	7/8"	1-7/16"	1-3/4" *
or shell cutter - see section 2 for part numbers	CC (AWWA taper)	7/16"	11/16"	11/16"	11/16"	11/16"	15/16"	15/16"	1-7/16"	1-15/16" *
Mega-Cut™/E-5 machine adapter nipple		63796	52019	508919	36750	508920	36750	508920	501949	508199
D-5 machine adapter nipple		37900	37902	508917	37903	508918	37903	508918	507644	507645
Tru-Cut/PL-2 machine adapter n 1.125" max. wall PVC	ipple for use on	-	507632	509050	507633	509051	507633	509051	-	-

^{*}Ball and ORI-CORP® Corporation valves IP and CC inlet: 1-7/8" maximum.

Tubing, pipe and liners used with MUELLER 110 Compression Connection

Nominal size of connection	Material*	Tubing or pipe O.D. range - inches	Tubing or pipe O.D. range - inches	Tubing or pipe I.D. range - inches	Liner part number
1/2" CTS	Type "K" copper	0.622 - 0.628	0.045 - 0.053	-	-
2/4" CTC	Type "K" copper	0.872 - 0.878	0.061 - 0.069	-	-
3/4" CTS	Polyethylene	0.871 - 0.879	0.097 - 0.107	0.657 - 0.685	504281
111 CTC	Type "K" copper	1.121 - 1.129	0.061 - 0.069	-	-
1" CTS	Polyethylene	1.120 - 1.130	0.125 - 0.137	0.846 - 0.880	504385
1 1/4" CTC	Type "K" copper	1.371 - 1.379	0.060 - 0.070	-	-
1-1/4" CTS	Polyethylene	1.370 - 1.380	0.153 - 0.168	1.034 - 1.074	505142
1-1/2" CTS	Type "K" copper	1.621 - 1.630	0.067 - 0.077	-	-
1-1/2 C13	Polyethylene	1.619 - 1.631	0.181 - 0.199	1.221 - 1.269	506139
	Type "K" copper	2.120 - 2.130	0.076 - 0.090	-	-
2" CTS	Polyethylene	2.119 - 2.131	0.236 - 0.260	1.599 - 1.659	506141
	Polyethylene	1.045 - 1.110	0.118 - 0.138	0.809 - 0.834	505141
3/4" IPS	3/4" Sch. 40 PVC	1.046 - 1.054	0.113 - 0.133	0.780 - 0.828	509759
	3/4" Sch. 80 PVC	1.046 - 1.054	0.154 - 0.174	0.698 - 0.746	509760
	Polyethylene	1.329 - 1.399	0.150 - 0.170	1.029 - 1.059	505142
1" IPS	1" Sch. 40 PVC	1.310-1.320	0.133-0.153	-	-
	1" Sch. 80 PVC	1.310-1.320	0179-0.200	-	-

^{*}Type "K" soft copper tubing per ASTM B88; CTS polyethylene (PE) per ASTM D-2737 - SDR-9; IPS polyethylene (PE) per ASTM D-2239 - PE SIDR-7; IPS polyvinylchloride (PVC) per ASTM D1785



MUELLER 110 Compression Connection replacement parts

Size	Kit	Gasket part number†	Connection nut
1/2" CTS		681516	147542
3/4" CTS	682600	581949	507831
1" CTS	682601	581951	507835
1-1/2" CTS		581955	507847
2" CTS		581957	507851
3/4" IPS PE		89599	508826
1" IPS PE		89788	508827









Nut

Corporation Valve Wrench



For operating up to and including 1" corporation valves.

1/2" - 2" GROUND KEY DESIGN **CORPORATION VALVES**

Shaded area indicates changes Rev. 8-04



Ground Key Corporation Valve Inlet: AWWA taper

(MUELLER "CC") thread **Outlet:** MUELLER Coupling

thread 1-1/64" I.D. thru valve - for

use with pito tube



H-9995

Ground Key Corporation Valve Inlet: AWWA I.P. thread **Outlet:** MUELLER Coupling thread (with coupling nut and leather washer) 1-1/64" I.D. thru valve - for use with pito tube

See page 5.14 for installation tools

See page 5.14 for installation tools



H-9992

Ground Key Corporation Valve **Inlet:** AWWA taper (MEULLER "CC") thread Outlet: Inceasing I.P. thread (outlet is one size larger than inlet) 1-1/32" I.D. thru valve - for

use with pito tube



H-10012

Ground Key Corporation Valve

Inlet: Standard I.P. thread** Outlet: M.I.P. thread

3/4"	1"	1-1/2"‡	2" ‡	

See page 5.14 for installation tools

Mueller Co.

Rev. 9-09 Shaded area indicates changes

2"

1/2" - 2" GROUND KEY DESIGN **CORPORATION VALVES**



Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread Outlet: F.I.P. thread

1-1/4"

H-10045

3/4"

1/2"

3/4"

3/4"



Ground Key Corporation Valve Inlet: AWWA I.P. thread

Outlet: F.I.P. thread

H-10046

1/2" 3/4" 1" 1-1/4"‡ 1-1/2" 2"



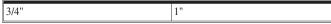
H-15027

Ground Key Corporation Valve Inlet: AWWA I.P. thread Outlet: I.P. thread copper flare connection - this connection thread is one size larger than the copper tubing to be flared

1-1/2"

H-15002

Ground Key Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread Outlet: I.P. thread copper flare connection - this connection thread is one size larger than the copper tubing to be flared





Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread Outlet: M.I.P. thread

1-1/2"±

H-9996



Ground Key Corporation Valve Inlet: AWWA I.P. thread

Outlet: M.I.P. thread

H-10013

1/2" 3/4" 1" 1	1-1/4" 1	1-1/2"	2"
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H-10003

H-9971

Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER"CC) thread Outlet: Increasing I.P. thread (outlet is one size larger than

inlet)



H-9979

Ground Key Corporation Valve Inlet: AWWA I.P. thread Outlet: Increasing I.P. thread (outlet is one size larger than

Ground Key Corporation Valve

1-1/2"

inlet)

5/8" (3/4" outlet)

5/8" (3/4" outlet) 3/4" 1-1/4" 1-1/2'

Ground Key Corporation Valve

(MUELLER "CC") thread **Outlet:** MUELLER Coupling

thread

Inlet: AWWA taper H-9976



1/2" (3/4" outlet)

Inlet: AWWA I.P. thread **Outlet**: MUELLER Coupling

thread

3/4"

^{3/4&}quot; 5/8"

1/2" - 2" GROUND KEY DESIGN CORPORATION VALVES

5.9

Shaded area indicates changes Rev. 9-09



H-15006

Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread

Outlet: MUELLER®

INSTA-TITE® Connection for

CTS PE tubing*

3/4" x1" ‡



H-15024

Ground Key Corporation Valve **Inlet**: AWWA I.P. thread

Outlet: MUELLER®

INSTA-TITE ® Connection for

CTS PE tubing*

3/4"	1"
3/4	1



H-15005

Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread

Outlet: MUELLER

INSTA-TITE Connection for

IPS PE pipe*



H-15026

3/4"

Ground Key Corporation Valve

Inlet: AWWA I.P. thread

Outlet: MUELLER

INSTA-TITE Connection for

IPS PE pipe*

3/4"	3/4" x1" ‡	1"



H-15000

1"x1-1/4" ‡

1/2"‡

Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread Outlet: Copper flare straight

connection

3/4"

1-1/2"

5/8" x 3/4"

1-1/4"

AFELLER)

H-15025

Ground Key Corporation Valve Inlet: AWWA I.P. thread Outlet: Copper flare straight

connection

1/2"	3/4"	1"	1-1/4"	1-1/2"	2"



H-15010

Ground Key Corporation Valve

3/4" x 1"

1-1/2"x2"

2"

Inlet: AWWA taper

(MUELLER "CC") thread **Outlet**: Copper flare eighth

bend connection



H-15035

1"±

3/4":

Ground Key Corporation Valve **Inlet**: AWWA I.P. thread

Outlet: Copper flare eighth

bend connection

1-1/2"

3/4"	1"	1-1/2"	2"
	I .		



Ground Key Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread

Outlet: Copper flare quarter

bend connection

5/8"x3/4" 3/4" 3/4"x1" 1" 1-1/2" 2"



Ground Key Corporation Valve **Inlet**: AWWA I.P. thread **Outlet**: Copper flare quarter

2"

bend connection

3/4"‡	1"	1-1/2"	2"

^{*}See charts on pages 5.12-5.16 for tubing and pipe that may be used on these connections.

[‡] Requires minimum ordering quantity. Contact MUELLER Customer Service Center for minimum order requirements and availability.

1/2"‡

Mueller Co.

Rev. 9-09 Shaded area indicates changes

1/2" - 1" GROUND KEY DESIGN **CORPORATION VALVES**



H-15008

5/8"

3/4"

Ground Key Corporation Valve **Inlet**: AWWA taper

(MUELLER "CC") thread **Outlet:** MUELLER® 110® Conductive Compression Con-

nection for CTS O.D.* tubing

1-1/2"

2"

1"



H-15028

Ground Key Corporation Valve Inlet: AWWA I.P. thread Outlet: MUELLER 110 Conductive Compression Connection for CTS O.D.* tubing

1/2" 3/4"	1"	1-1/2"	2"
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Ground Key Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread **Outlet: MUELLER 110**

H-15031

Conductive Compression Connection for CTS O.D. tubing eighth bend connection



H-15009

Ground Key Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread Outlet: MUELLER 110 Compression Connection for

IPS PE* pipe

3/4" Ground Key Corporation Valve

3/4"x1"

Inlet: AWWA taper (MUELLER "CC") thread **Outlet: MUELLER 110** Conductive Compression Connection for CTS O.D. tubing

quarter bend connection

H-15030

3/4"

3/4"

H-15029

Ground Key Corporation Valve Inlet: AWWA I.P. thread **Outlet: MUELLER 110** Compression Connection for

IPS PE* pipe

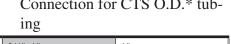
3/4"



P-15008

Ground Key Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread

Outlet: MUELLER® Pack Joint Connection for CTS O.D.* tub-



MULLIER	
	'

P-15028

Ground Key Corporation Valve Inlet: AWWA I.P. thread Outlet: MUELLER Pack Joint Connection for CTS O.D.* tub-

1"

^{3/4&}quot;x1" 1" 3/4 3/4

^{*}See charts on pages 5.12-5.16 for tubing and pipe that may be used on these connections.

1-1/2" & 2" MUELLER® ORI-CORP® CORPORATION VALVES



5.7

Rev. 4-01



H-15013

MUELLER ORI-CORP

Corporation Valve
Inlet: AWWA taper
(MUELLER "CC") thread

ductive Compression Connection for CTS O.D.* tubing

Outlet: MUELLER® 110® Con-



H-15023

MUELLER ORI-CORP

Corporation Valve

Inlet: AWWA I.P. thread **Outlet:** MUELLER 110 Conductive Compression

Connection for CTS O.D.* tubing

1-1/2" 2"

1-1/2" 2" **



P-15013

MUELLER ORI-CORP Corpo-

ration Valve

Inlet: AWWA taper (MUELLER "CC") thread Outlet: MUELLER Pack Joint

Connection for CTS O.D.* tub-

ing



P-15023

MUELLER ORI-CORP Corporation Valve

Inlet: AWWA I.P. thread
Outlet: MUELLER Pack Joint
Connection for CTS O.D.* tubing

1-1/2" 2"

1-1/2" 2" **



H-15014

MUELLER ORI-CORP Corpo-

ration Valve

Inlet: AWWA taper (MUELLER "CC") thread

Outlet: F.I.P. thread



H-15015

MUELLER ORI-CORP Corpo-

ration Valve

Inlet: AWWA I.P. thread **Outlet:** F.I.P. thread

1-1/2" ‡ 2" ‡

1-1/2" ‡

2" ‡



H-9968

MUELLER ORI-CORP Corpo-

ration Valve

Inlet: AWWA taper (MUELLER "CC") thread

Outlet: M.I.P. thread



H-9969

MUELLER ORI-CORP

Corporation Valve **Inlet:** AWWA I.P. thread

Outlet: M.I.P. thread

	1-1/2"	2"	
1			

1-1/2" 2" **

^{*}See charts on pages 5.12-5.16 for tubing and pipe that may be used on these connections.

^{**} For use with Service Saddle only—cannot be machine inserted.

[‡] Requires minimum ordering quantity. Contact MUELLER Customer Service Center for minimum order requirements and availability. NOTE: Sizes shown above represent nominal size of inlet and outlet connections.

5.6

3/4"

3/4"



3/4" - 2" MUELLER® 300™ BALL CORPORATION VALVES

Rev. 9-09 Shaded area indicates changes



MUELLER 300 Ball Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread

B-2996

1"

Outlet: M.I.P. thread



B-20013

MUELLER 300 Ball Corporation Valve

Inlet: AWWA I.P. thread **Outlet:** M.I.P. thread (Full size diameter inlet to outlet)

3/4"	1"	1-1/2"	2"
	l		



MUELLER 300 Ball Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread

Outlet: Increasing M.I.P. thread

B-20003

5 unc	au	
	1-1/2"	2"



B-2969

MUELLER 300 Ball Corporation Valve Inlet: AWWA I.P. thread Outlet: M.I.P. thread

(Full size diameter inlet to outlet).

1-1/2"	2"

OPTIONAL T-HEAD:

All ball corporation valves are available with a 360° turn T-head cap by adding "-10" to catalog number: Example: B-25008-10

For a 3/4" or 1" detachable T-head caps for corporation valves add "-00" to catalog number. Example: B-25008-00

RECLAIMED WATER STYLE:

All ball corporation valves area available marked for "reclaimed water" by adding "-20" to the catalog number. Example: B-25008-20.

3/4" - 2" MUELLER® 300™ **BALL CORPORATION VALVES**



Shaded area indicates changes Rev. 9-09



B-25006

MUELLER® 300TM Ball Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread

Outlet: MUELLER® INSTA-TITE® Connection for

CTS PE* pipe



B-25024

MUELLER® 300TM Ball Corporation Valve

Inlet: AWWA I.P. thread **Outlet:** MUELLER®

INSTA-TITE® Connection for

CTS PE* pipe

1"

1"



B-25005

MUELLER 300 Ball Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread **Outlet:** MUELLER®

INSTA-TITE® Connection for

IPS PE* pipe



3/4"

B-25026

MUELLER 300 Ball Corporation Valve **Inlet:** AWWA I.P. thread

Outlet: MUELLER®

INSTA-TITE® Connection for

IPS PE* pipe



B-25000

MUELLER 300 Ball Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread

Outlet: Copper flare straight

connection



B-25025

3/4" x 1"

3/4"

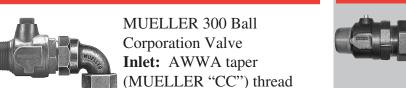
MUELLER 300 Ball Corporation Valve

Inlet: AWWA I.P. thread **Outlet:** Copper flare straight

connection

1"

3/4" 1-1/2" 2" 3/4" x 1"



B-25020 **Outlet:** Copper flare x 90 Bend CS

3/4" 1" 1-1/2" 2"



B-25010

MUELLER 300 Ball Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread

1-1/2"

2"

Outlet: Copper flare x 45 Bend

1-1/2" 2"



MUELLER 300 Ball Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread Outlet: F.I.P. thread

MUELLER 300 Ball Corporation Valve **Inlet:** AWWA I.P. thread Outlet: F.I.P. thread

B-20046

3/4" 3/4"x1" 1-1/2" 3/4" 3/4"x1" 1-1/2"

Mueller Co.

Rev. 9-09 Shaded area indicates changes

3/4" - 2" MUELLER® 300™ **BALL CORPORATION VALVES**



B-25008

3/4" x 1"

MUELLER® 300TM Ball Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread Outlet: MUELLER® 110®

Conductive Compression

Connection for CTS O.D* tubing 1-1/2" x 2"

1	vii ei mer	

B-25028

MUELLER® 300TM Ball Corporation Valve Inlet: AWWA I.P. thread Outlet: MUELLER® 110® Conductive Compression Connection for CTS O.D.

tubing



B-25009

MUELLER 300 Ball Corporation Valve

Inlet: AWWA taper (MUELLER "CC") thread Outlet: MUELLER ® 110 ®

Compression Connection for

IPS PE* pipe

1-1/2"



B-25029

3/4" x 1"

MUELLER 300 Ball Corporation Valve

Inlet: AWWA I.P. thread Outlet: MUELLER 110[®] **Compression Connection**

for IPS PE* pipe

57 1 11 1



E-25009

MUELLER 300 Ball

Corporation Valve **Inlet:** AWWA taper (MUELLER "CC") thread

Outlet: MUELLER Pack Joint

for IPS PE* pipe

**Note: 3/4" size only may also be used on

PVC

1-1/2"

200000000000000000000000000000000000000	INCIDENTAL S	E
(minne		

3/4"

3/4"**

E-25029

1"

MUELLER 300 Ball Corporation Valve

Inlet: AWWA I.P thread **Outlet: MUELLER**

Pack Joint for IPS PE* pipe **Note: 3/4" size only may also be used on

2"

PVC

1-1/2"

3/4"** 1" 1-1/2" 2"



V-25056

MUELLER 300 Ball

Corporation Valve Inlet: AWWA taper (MUELLER "CC") thread

Outlet: MUELLER Pack Joint

for IPS PVC* pipe



MUELLER 300 Ball Corporation Valve **Inlet:** AWWA I.P thread

Outlet: MUELLER Pack Joint for IPS PVC* pipe

V-25058



1"	1-1/2"	2"



P-25008

MUELLER 300 Ball Corporation Valve

Inlet: AWWA taper (MUELLER

2"

"CC") thread

Outlet: MUELLER Pack Joint Connection for CTS O.D. * tubing



P-25028

MUELLER 300 Ball Corporation Valve

Inlet: AWWA I.P. thread Outlet: MUELLER Pack Joint Connection for CTS O.D.*

tubing

3/4"	3/4" x 1"	1"	1-1/2"	1-1/2" x 2"‡	2"

^{1&}quot; 3/4" 3/4"x1" 1-1/2" 1-1/2"x2"

NOTE: Sizes shown above represent nominal size of inlet and outlet connections. When two sizes are given, the first is size of inlet and the second is size of outlet. ‡ Requires minimum ordering quantity. Contact MUELLER Customer Service Center for minimum order requirements and availability.

^{*}See charts on pages 5.12-5.16 for tubing and pipe that may be used with these connections.

5.3

Rev 4-01

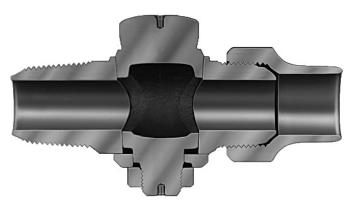
MUELLER CO. has been manufacturing ground key corporation stops since 1870 and many features of the modern day stops were developed by MUELLER CO.

These features include a brass alloy, and inlet thread and outlet connections that were eventually adopted as American Water Works Association Standards.

MUELLER® Ground Key Design Corporation Valves

- BODY is cast from 85-5-5-5 ASTM B62 brass alloy for strength and corrosion resistance.
- ☐ INTEGRAL OUTLET available with a wide variety of outlet end connections including the MUELLER 110® Compression Connection, MUELLER Pack Joint Connection, MUELLER INSTA-TITE® Connection, copper flare, inside iron pipe, outside iron pipe, increasing iron pipe, **MUELLER** Coupling Thread and other popular connections.
- ☐ STRAIGHT THROUGH DESIGN - allows maximum flow with minimum pressure loss.

☐ KEY AND BODY - are precision machined to assure sealing surfaces match.



- 100 PSIG maximum working pressure for 1/2," 3/4" and 1" sizes. 80 PSIG maximum working pressure for 1-1/4", 1-1/2" and 2" sizes.
- ☐ "D" SHAPED

 WASHER turns with

 key to prevent loosening of key nut.

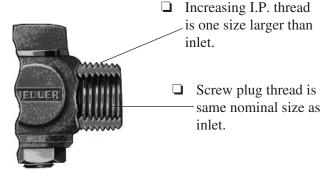
- ☐ INLET THREADS are either AWWA taper thread (MUELLER "CC") or AWWA iron pipe thread.
- MANUFACTURED AND TESTED - to ANSI/AWWA C800 Standard.

☐ KEY NUT - is designed so overtightening will strip stem threads instead of breaking stem.

Corporation valve inlet threads

□ AWWA taper (MUELLER"CC") thread. □ AWWA iron pipe thread.

MUELLER Screw plug thread



MUELLER® CORPORATION VALVES

Rev. 4-0

The MUELLER ORI-CORP® Corporation Valve is an easy turning, O-ring sealed, balanced pressure, plug type valve having a round, full open unobstructed flow way. These valves also feature a heavy one-piece bronze body with integral wrench flats.

The integral plug and key head construction provides maximum strength and positive operation. The large operating head provides more than adequate wrench gripping area for easy operation.

MUELLER ORI-CORP Corporation Valve

- ☐ INTEGRAL
 WRENCH FLATS
 on inlet and outlet of
 body provide generous
 wrench gripping area.
- ☐ TOP SEALING O-RING - seals valve from exterior leakage and adds to easy turning qualities.
- ☐ LARGE OPERAT-ING HEAD - provides more than adequate wrench gripping area.
- ☐ INTEGRAL ONEPIECE PLUG AND
 OPERATING HEAD
 provides strength
 and assures positive
 operation. Quarter
 turn in either direction
 activates valve. An
 integrally cast flange
 at the top of the plug
 functions as a dirt seal
 to protect the top O-

- ☐ INLET is available with either AWWA taper (MUELLER "CC") thread or AWWA iron pipe thread.
- STRONG, ONE
 PIECE BODY has
 no cavities that could
 allow debris to collect
 and cause damage to
 the plug.
- ☐ FULL FLOW round way plug opening provides straight through passage with no obstruction.

ring.

- BRONZE RETAINING RING secures
 plug in body and also
 functions as a dirt seal
 to protect bottom Oring. Since this valve
 is a balanced pressure
 type, there is no force
 tending to eject the
 plug or load the retaining mechanism.
- BOTTOM SEALING O-RING - seals valve from leakage and adds to easy turning qualities.
- ☐ OUTLET PORT SEALING O-RING is totally confined in a machined groove to provide positive leaktight shutoff.
- ☐ INTEGRAL OUTLET is available with either MUELLER 110® Conductive Compression Connection, outside iron pipe thread or inside iron pipe thread.
- ☐ 175 PSIG maximum working pressure.