



PRODUCT DATA SHEETS · ISSUE: OCTOBER 2026

Grooved Fittings Data Sheets

Elbows, tees, crosses, wye, reducers and caps. Product data sheets for True North™ grooved couplings and fittings for fire protection. Sizes 1" to 24" (DN25 to DN600); larger sizes on request. UL Listed and FM Approved grooved fittings, couplings and accessories supplied to project specification.

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Approval status. UL Listed and FM Approved grooved fittings, couplings and accessories supplied to project specification. Information in this document is taken from published True North™ product information and is subject to change without notice.

ELBOWS · PRODUCT DATA SHEET

90° Elbow, Short Radius

Model TN-EL90-S

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Compact grooved 90° elbow.

Grooved-end changes of direction from 11.25° to 90°.

Model no.	TN-EL90-S
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1"	33.7	2-1/2"	76.1	5"	139.7	8"	219.1
1-1/4"	42.4	3"	88.9	5"	141.3	10"	273
1-1/2"	48.3	4"	108	6"	159	12"	323.9
2"	60.3	4"	114.3	6"	165.1		
2-1/2"	73	5"	133	6"	168.3		

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

ELBOWS · PRODUCT DATA SHEET

90° Elbow, Long Radius

Model TN-EL90-L

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

Long-radius grooved 90° elbow.

Grooved-end changes of direction from 11.25° to 90°.

Model no.	TN-EL90-L
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1"	33.7	2-1/2"	73	5"	139.7	8"	219.1
1-1/4"	42.4	2-1/2"	76.1	5"	141.3		
1-1/2"	48.3	3"	88.9	6"	165.1		
2"	60.3	4"	114.3	6"	168.3		

Submittal information

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ELBOWS · PRODUCT DATA SHEET

90° Reducing Elbow, Threaded

Model TN-EL90-RT

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

90° elbow with grooved inlet and reduced threaded outlet.

Grooved-end changes of direction from 11.25° to 90°.

Model no.	TN-EL90-RT
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1-1/2" x 1/2"	48.3 × 21.3	2" x 1/2"	60.3 × 21.3
1-1/2" x 3/4"	48.3 × 26.9	2" x 3/4"	60.3 × 26.9
1-1/2" x 1"	48.3 × 33.7	2" x 1"	60.3 × 33.7

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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ELBOWS · PRODUCT DATA SHEET

45° Elbow

Model TN-EL45

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

Grooved-end 45° change of direction.

Grooved-end changes of direction from 11.25° to 90°.

Model no.	TN-EL45
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1"	33.7	2-1/2"	76.1	5"	139.7	8"	219.1
1-1/4"	42.4	3"	88.9	5"	141.3	10"	273
1-1/2"	48.3	4"	108	6"	159		
2"	60.3	4"	114.3	6"	165.1		
2-1/2"	73	5"	133	6"	168.3		

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PROJECT	CONTRACTOR	ENGINEER	LOCATION
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ELBOWS · PRODUCT DATA SHEET

22.5° Elbow

Model TN-EL22

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Grooved-end 22.5° change of direction.

Grooved-end changes of direction from 11.25° to 90°.

Model no.	TN-EL22
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
2"	60.3	3"	88.9	6"	165.1
2-1/2"	73	4"	108	6"	168.3
2-1/2"	76.1	4"	114.3	8"	219.1

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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ELBOWS · PRODUCT DATA SHEET

11.25° Elbow

Model TN-EL11

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Grooved-end 11.25° change of direction.

Grooved-end changes of direction from 11.25° to 90°.

Model no.	TN-EL11
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
2"	60.3	4"	114.3
2-1/2"	73	6"	165.1
2-1/2"	76.1	6"	168.3
4"	108		

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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TEES & CROSSES · PRODUCT DATA SHEET

Equal Tee, Short Radius

Model TN-TE-S

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Compact grooved equal tee.

Grooved equal, reducing and four-way fittings.

Model no.	TN-TE-S
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1"	33.7	2-1/2"	76.1	5"	139.7	8"	219.1
1-1/4"	42.4	3"	88.9	5"	141.3	10"	273
1-1/2"	48.3	4"	108	6"	159		
2"	60.3	4"	114.3	6"	165.1		
2-1/2"	73	133"	133	6"	168.3		

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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TEES & CROSSES · PRODUCT DATA SHEET

Equal Tee, Long Radius

Model TN-TE-L

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

Long-radius grooved equal tee.

Grooved equal, reducing and four-way fittings.

Model no.	TN-TE-L
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1"	33.7	2"	60.3	4"	114.3
1-1/4"	42.4	2-1/2"	73	6"	168.3
1-1/2"	48.3	3"	88.9	8"	219.1

Submittal information

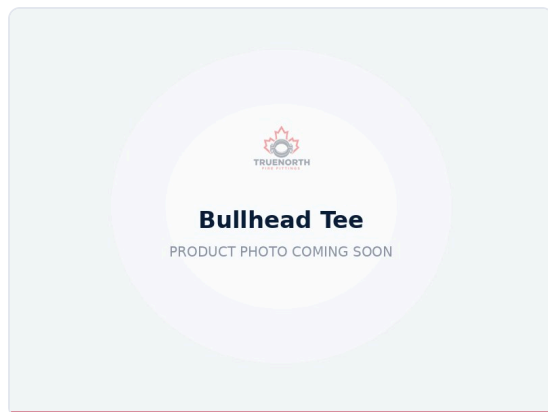
PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

TEES & CROSSES · PRODUCT DATA SHEET

Bullhead Tee

Model TN-TE-BH

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

Grooved tee with a branch larger than the run, for bullhead connections.

Grooved equal, reducing and four-way fittings.

Model no.	TN-TE-BH
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Size list available on request.

Sizes 1" to 24" (DN25 to DN600); larger sizes on request. Contact us for details.

Dimensions, pressure ratings and weights are available on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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TEES & CROSSES · PRODUCT DATA SHEET

Reducing Tee, Grooved

Model TN-RT-G

Our own True North™ brand · Canadian brand



Product photo for illustration.

Grooved tee with reduced grooved branch.

Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)
1-1/4" x 1"	42.4 × 33.7	2-1/2" x 1-1/4"	76.1 × 42.4	4" x 2"	114.3 × 60.3	159" x 2-1/2"	159 × 76.1	6" x 4"	168.3 × 114.3
1-1/2" x 1"	48.3 × 33.7	2-1/2" x 1-1/2"	76.1 × 48.3	4" x 2-1/2"	114.3 × 73	159" x 4"	159 × 108	6" x 5"	168.3 × 141.3
1-1/2" x 1-1/4"	48.3 × 42.4	2-1/2" x 2"	76.1 × 60.3	4" x 2-1/2"	114.3 × 76.1	6" x 2"	165.1 × 60.3	8" x 3"	219.1 × 88.9
2" x 1"	60.3 × 33.7	3" x 1"	88.9 × 33.7	4" x 3"	114.3 × 88.9	6" x 2-1/2"	165.1 × 76.1	8" x 4"	219.1 × 114.3
2" x 1-1/4"	60.3 × 42.4	3" x 1-1/4"	88.9 × 42.4	5" x 2-1/2"	133 × 76.1	6" x 3"	165.1 × 88.9	8" x 5"	219.1 × 141.3
2" x 1-1/2"	60.3 × 48.3	3" x 1-1/2"	88.9 × 48.3	5" x 2-1/2"	139.7 × 76.1	6" x 4"	165.1 × 114.3	8" x 6"	219.1 × 159
2-1/2" x 1"	73 × 33.7	3" x 2"	88.9 × 60.3	5" x 3"	139.7 × 88.9	6"	165.1 × 139.7	8"	219.1 × 165.1
2-1/2" x 1-1/4"	73 × 42.4	3" x 2-1/2"	88.9 × 73	5" x 4"	139.7 × 114.3	6" x 2"	168.3 × 60.3	8" x 6"	219.1 × 168.3
2-1/2" x 1-1/2"	73 × 48.3	3" x 2-1/2"	88.9 × 76.1	5" x 2-1/2"	141.3 × 73	6" x 2-1/2"	168.3 × 73		
2-1/2" x 2"	73 × 60.3	4" x 2"	108 × 60.3	5" x 3"	141.3 × 88.9	6" x 2-1/2"	168.3 × 76.1		
2-1/2" x 1"	76.1 × 33.7	4" x 2-1/2"	108 × 76.1	5" x 4"	141.3 × 114.3	6" x 3"	168.3 × 88.9		

Installation: install in accordance with NFPA 13, the project specifications and the authority having jurisdiction; see the True North™ Installation Guide.

Documentation: material certificates and test reports on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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TEES & CROSSES · PRODUCT DATA SHEET

Reducing Tee, Threaded Branch

Model TN-RT-T

Our own True North™ brand · Canadian brand



Product photo for illustration.

Grooved run with reduced threaded branch.

Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)
1-1/4" x 1"	42.4 × 33.7	2-1/2" x 1"	76.1 × 33.7	108" x 1"	108 × 33.7	4" x 2-1/2"	114.3 × 73	6" x 1-1/2"	165.1 × 48.3
1-1/2" x 1"	48.3 × 33.7	2-1/2" x 1-1/4"	76.1 × 42.4	108" x 1-1/4"	108 × 42.4	4" x 2-1/2"	114.3 × 76.1	6" x 2"	165.1 × 60.3
2" x 1"	60.3 × 33.7	2-1/2" x 1-1/2"	76.1 × 48.3	108" x 1-1/2"	108 × 48.3	4" x 3"	114.3 × 88.9	6" x 2-1/2"	165.1 × 76.1
2" x 1-1/4"	60.3 × 42.4	2-1/2" x 2"	76.1 × 60.3	108" x 2"	108 × 60.3	5" x 1"	139.7 × 33.7	6" x 3"	165.1 × 88.9
2" x 1-1/2"	60.3 × 48.3	3" x 1"	88.9 × 33.7	108" x 2-1/2"	108 × 76.1	5" x 1-1/4"	139.7 × 42.4	6" x 1"	168.3 × 33.7
2-1/2" x 1"	73 × 33.7	3" x 1-1/4"	88.9 × 42.4	4" x 1"	114.3 × 33.7	5" x 1-1/2"	139.7 × 48.3	6" x 1-1/4"	168.3 × 42.4
2-1/2" x 1-1/4"	73 × 42.4	3" x 1-1/2"	88.9 × 48.3	4" x 1-1/4"	114.3 × 42.4	5" x 2"	139.7 × 60.3	6" x 1-1/2"	168.3 × 48.3
2-1/2" x 1-1/2"	73 × 48.3	3" x 2"	88.9 × 60.3	4" x 1-1/2"	114.3 × 48.3	6" x 1"	165.1 × 33.7	6" x 2"	168.3 × 60.3
2-1/2" x 2"	73 × 60.3	3" x 2-1/2"	88.9 × 76.1	4" x 2"	114.3 × 60.3	6" x 1-1/4"	165.1 × 42.4	6" x 2-1/2"	168.3 × 73

Installation: install in accordance with NFPA 13, the project specifications and the authority having jurisdiction; see the True North™ Installation Guide.

Documentation: material certificates and test reports on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
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TEES & CROSSES · PRODUCT DATA SHEET

Grooved Cross

Model TN-CR-01

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Four-way grooved fitting.

Grooved equal, reducing and four-way fittings.

Model no.	TN-CR-01
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
2"	60.3	3"	88.9	6"	165.1
2-1/2"	73	4"	114.3	6"	168.3
2-1/2"	76.1	6"	159	8"	219.1

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

TEES & CROSSES · PRODUCT DATA SHEET

Grooved Reducing Cross

Model TN-CR-R

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Four-way grooved fitting with reduced branches.

Grooved equal, reducing and four-way fittings.

Model no.	TN-CR-R
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
2-1/2" x 2"	76.1 × 60.3	6" x 3"	168.3 × 88.9
4" x 3"	114.3 × 88.9	6" x 4"	168.3 × 114.3
6" x 4"	165.1 × 114.3		

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

TEES & CROSSES · PRODUCT DATA SHEET

Reducing Cross, Threaded Branches

Model TN-CR-RT

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

Four-way fitting with grooved run and reduced threaded branches.

Grooved equal, reducing and four-way fittings.

Model no.	TN-CR-RT
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Size list available on request.

Sizes 1" to 24" (DN25 to DN600); larger sizes on request. Contact us for details.

Dimensions, pressure ratings and weights are available on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

TEES & CROSSES · PRODUCT DATA SHEET

Grooved Lateral (45° Wye)

Model TN-LT-01

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

45° grooved lateral for branch connections at an angle to the run.

Grooved equal, reducing and four-way fittings.

Model no.	TN-LT-01
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Size list available on request.

Sizes 1" to 24" (DN25 to DN600); larger sizes on request. Contact us for details.

Dimensions, pressure ratings and weights are available on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

Concentric Reducer, Grooved

Model TN-CRD-G

Our own True North™ brand · Canadian brand



Product photo for illustration.

Joins grooved pipe of two sizes.

Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)
1-1/4" x 1"	42.4 × 33.7	2-1/2" x 2"	76.1 × 60.3	4" x 1-1/4"	114.3 × 42.4	6" x 2"	165.1 × 60.3	8" x 2-1/2"	219.1 × 73
1-1/2" x 1"	48.3 × 33.7	3" x 1"	88.9 × 33.7	4" x 1-1/2"	114.3 × 48.3	6" x 2-1/2"	165.1 × 76.1	8" x 3"	219.1 × 88.9
1-1/2" x 1-1/4"	48.3 × 42.4	3" x 1-1/4"	88.9 × 42.4	4" x 2"	114.3 × 60.3	6" x 3"	165.1 × 88.9	8" x 4"	219.1 × 114.3
2" x 1"	60.3 × 33.7	3" x 1-1/2"	88.9 × 48.3	4" x 2-1/2"	114.3 × 73	6" x 4"	165.1 × 114.3	8" x 5"	219.1 × 141.3
2" x 1-1/4"	60.3 × 42.4	3" x 2"	88.9 × 60.3	4" x 2-1/2"	114.3 × 76.1	6"	165.1 × 139.7	8" x 6"	219.1 × 159
2" x 1-1/2"	60.3 × 48.3	3" x 2-1/2"	88.9 × 73	4" x 3"	114.3 × 88.9	6" x 2"	168.3 × 60.3	8"	219.1 × 165.1
2-1/2" x 1"	73 × 33.7	3" x 2-1/2"	88.9 × 76.1	5" x 2"	139.7 × 60.3	6" x 2-1/2"	168.3 × 73	8" x 6"	219.1 × 168.3
2-1/2" x 1-1/4"	73 × 42.4	108" x 1-1/4"	108 × 42.4	5" x 2-1/2"	139.7 × 76.1	6" x 2-1/2"	168.3 × 76.1	10" x 4"	273 × 114.3
2-1/2" x 1-1/2"	73 × 48.3	108" x 1-1/2"	108 × 48.3	5" x 3"	139.7 × 88.9	6" x 3"	168.3 × 88.9	10"	273 × 165.1
2-1/2" x 2"	73 × 60.3	108" x 2"	108 × 60.3	5" x 4"	139.7 × 114.3	6" x 4"	168.3 × 114.3	10" x 6"	273 × 168.3
2-1/2" x 1"	76.1 × 33.7	108" x 2-1/2"	108 × 76.1	5" x 2-1/2"	141.3 × 73	6"	168.3 × 139.7	10" x 8"	273 × 219.1
2-1/2" x 1-1/4"	76.1 × 42.4	108" x 3"	108 × 88.9	5" x 3"	141.3 × 88.9	6" x 5"	168.3 × 141.3		
2-1/2" x 1-1/2"	76.1 × 48.3	4" x 1"	114.3 × 33.7	5" x 4"	141.3 × 114.3	8" x 2"	219.1 × 60.3		

Installation: install in accordance with NFPA 13, the project specifications and the authority having jurisdiction; see the True North™ Installation Guide.

Documentation: material certificates and test reports on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

Eccentric Reducer, Grooved

Model TN-ERD-G

Our own True North™ brand · Canadian brand



Product photo for illustration.

Joins grooved pipe of two sizes, with one side kept flat.

Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)
1-1/4" x 1"	42.4 × 33.7	2-1/2" x 1-1/2"	76.1 × 48.3	4" x 2-1/2"	114.3 × 76.1	6" x 5"	159 × 133	6"	168.3 × 139.7
1-1/2" x 1"	48.3 × 33.7	2-1/2" x 2"	76.1 × 60.3	4" x 3"	114.3 × 88.9	6"	159 × 139.7	8" x 2"	219.1 × 60.3
1-1/2" x 1-1/4"	48.3 × 42.4	3" x 1-1/4"	88.9 × 42.4	5" x 2"	139.7 × 60.3	6" x 2"	165.1 × 60.3	8" x 2-1/2"	219.1 × 76.1
2" x 1"	60.3 × 33.7	3" x 1-1/2"	88.9 × 48.3	5" x 2-1/2"	139.7 × 76.1	6" x 2-1/2"	165.1 × 76.1	8" x 3"	219.1 × 88.9
2" x 1-1/4"	60.3 × 42.4	3" x 2"	88.9 × 60.3	5" x 3"	139.7 × 88.9	6" x 3"	165.1 × 88.9	8" x 4"	219.1 × 108
2" x 1-1/2"	60.3 × 48.3	3" x 2-1/2"	88.9 × 76.1	5" x 4"	139.7 × 114.3	6" x 4"	165.1 × 114.3	8" x 4"	219.1 × 114.3
2-1/2" x 1"	73 × 33.7	4" x 2-1/2"	108 × 76.1	6" x 2"	159 × 60.3	6"	165.1 × 139.7	8"	219.1 × 139.7
2-1/2" x 1-1/4"	73 × 42.4	4" x 3"	108 × 88.9	6" x 2-1/2"	159 × 76.1	6" x 2"	168.3 × 60.3	8" x 6"	219.1 × 159
2-1/2" x 1-1/2"	73 × 48.3	4" x 1-1/4"	114.3 × 42.4	6" x 3"	159 × 88.9	6" x 2-1/2"	168.3 × 76.1	8"	219.1 × 165.1
2-1/2" x 2"	73 × 60.3	4" x 1-1/2"	114.3 × 48.3	6" x 4"	159 × 108	6" x 3"	168.3 × 88.9	8" x 6"	219.1 × 168.3
2-1/2" x 1-1/4"	76.1 × 42.4	4" x 2"	114.3 × 60.3	6" x 4"	159 × 114.3	6" x 4"	168.3 × 114.3		

Installation: install in accordance with NFPA 13, the project specifications and the authority having jurisdiction; see the True North™ Installation Guide.

Documentation: material certificates and test reports on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

Concentric Reducer, Threaded

Model TN-CRD-T

Our own True North™ brand · Canadian brand



Product photo for illustration.

Grooved inlet with reduced threaded outlet.

Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)
1-1/4" x 1"	42.4 × 33.7	2-1/2" x 2"	73 × 60.3	3" x 2-1/2"	88.9 × 73	5" x 1"	139.7 × 33.7	6" x 3"	165.1 × 88.9
1-1/2" x 1"	48.3 × 33.7	2-1/2" x 1"	76.1 × 33.7	3" x 2-1/2"	88.9 × 76.1	5" x 1-1/4"	139.7 × 42.4	6" x 1"	168.3 × 33.7
1-1/2" x 1-1/4"	48.3 × 42.4	2-1/2" x 1-1/4"	76.1 × 42.4	4" x 1"	114.3 × 33.7	5" x 1-1/2"	139.7 × 48.3	6" x 1-1/4"	168.3 × 42.4
2" x 1"	60.3 × 33.7	2-1/2" x 1-1/2"	76.1 × 48.3	4" x 1-1/4"	114.3 × 42.4	5" x 2"	139.7 × 60.3	6" x 1-1/2"	168.3 × 48.3
2" x 1-1/4"	60.3 × 42.4	2-1/2" x 2"	76.1 × 60.3	4" x 1-1/2"	114.3 × 48.3	6" x 1"	165.1 × 33.7	6" x 2"	168.3 × 60.3
2" x 1-1/2"	60.3 × 48.3	3" x 1"	88.9 × 33.7	4" x 2"	114.3 × 60.3	6" x 1-1/4"	165.1 × 42.4		
2-1/2" x 1"	73 × 33.7	3" x 1-1/4"	88.9 × 42.4	4" x 2-1/2"	114.3 × 73	6" x 1-1/2"	165.1 × 48.3		
2-1/2" x 1-1/4"	73 × 42.4	3" x 1-1/2"	88.9 × 48.3	4" x 2-1/2"	114.3 × 76.1	6" x 2"	165.1 × 60.3		
2-1/2" x 1-1/2"	73 × 48.3	3" x 2"	88.9 × 60.3	4" x 3"	114.3 × 88.9	6" x 2-1/2"	165.1 × 76.1		

Installation: install in accordance with NFPA 13, the project specifications and the authority having jurisdiction; see the True North™ Installation Guide.

Documentation: material certificates and test reports on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

Eccentric Reducer, Threaded

Model TN-ERD-T

Our own True North™ brand · Canadian brand



Product photo for illustration.

Grooved inlet with offset reduced threaded outlet.

Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)	Size (in)	OD (mm)
1-1/4" x 1"	42.4 × 33.7	2-1/2" x 1-1/2"	76.1 × 48.3	4" x 2-1/2"	114.3 × 76.1	6" x 5"	159 × 133	6"	168.3 × 139.7
1-1/2" x 1"	48.3 × 33.7	2-1/2" x 2"	76.1 × 60.3	4" x 3"	114.3 × 88.9	6"	159 × 139.7	8" x 2"	219.1 × 60.3
1-1/2" x 1-1/4"	48.3 × 42.4	3" x 1-1/4"	88.9 × 42.4	5" x 2"	139.7 × 60.3	6" x 2"	165.1 × 60.3	8" x 2-1/2"	219.1 × 76.1
2" x 1"	60.3 × 33.7	3" x 1-1/2"	88.9 × 48.3	5" x 2-1/2"	139.7 × 76.1	6" x 2-1/2"	165.1 × 76.1	8" x 3"	219.1 × 88.9
2" x 1-1/4"	60.3 × 42.4	3" x 2"	88.9 × 60.3	5" x 3"	139.7 × 88.9	6" x 3"	165.1 × 88.9	8" x 4"	219.1 × 108
2" x 1-1/2"	60.3 × 48.3	3" x 2-1/2"	88.9 × 76.1	5" x 4"	139.7 × 114.3	6" x 4"	165.1 × 114.3	8" x 4"	219.1 × 114.3
2-1/2" x 1"	73 × 33.7	4" x 2-1/2"	108 × 76.1	6" x 2"	159 × 60.3	6"	165.1 × 139.7	8"	219.1 × 139.7
2-1/2" x 1-1/4"	73 × 42.4	4" x 3"	108 × 88.9	6" x 2-1/2"	159 × 76.1	6" x 2"	168.3 × 60.3	8" x 6"	219.1 × 159
2-1/2" x 1-1/2"	73 × 48.3	4" x 1-1/4"	114.3 × 42.4	6" x 3"	159 × 88.9	6" x 2-1/2"	168.3 × 76.1	8"	219.1 × 165.1
2-1/2" x 2"	73 × 60.3	4" x 1-1/2"	114.3 × 48.3	6" x 4"	159 × 108	6" x 3"	168.3 × 88.9	8" x 6"	219.1 × 168.3
2-1/2" x 1-1/4"	76.1 × 42.4	4" x 2"	114.3 × 60.3	6" x 4"	159 × 114.3	6" x 4"	168.3 × 114.3		

Installation: install in accordance with NFPA 13, the project specifications and the authority having jurisdiction; see the True North™ Installation Guide.

Documentation: material certificates and test reports on request.

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

End Cap

Model TN-CAP-01

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Closes the end of a grooved line.

Size changes and line terminations.

Model no.	TN-CAP-01
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
1"	33.7	2-1/2"	76.1	5"	139.7	8"	219.1
1-1/4"	42.4	3"	88.9	5"	141.3	10"	273
1-1/2"	48.3	4"	108	6"	159		
2"	60.3	4"	114.3	6"	165.1		
2-1/2"	73	5"	133	6"	168.3		

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

End Cap, Concentric Hole

Model TN-CAP-CH

Our own True North™ brand · Canadian brand



Product photo for illustration.

Grooved end cap with a centred threaded outlet.

Size changes and line terminations.

Model no.	TN-CAP-CH
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request.
Weights and full dimensional drawings: contact us for details.

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
2" x 1"	60.3 × 33.7	4" x 1"	108 × 33.7	5" x 1"	141.3 × 33.7	8" x 1"	219.1 × 33.7
2-1/2" x 1"	73 × 33.7	4" x 1"	114.3 × 33.7	6" x 1"	159 × 33.7	10" x 1"	273 × 33.7
2-1/2" x 1"	76.1 × 33.7	5" x 1"	133 × 33.7	6" x 1"	165.1 × 33.7		
3" x 1"	88.9 × 33.7	5" x 1"	139.7 × 33.7	6" x 1"	168.3 × 33.7		

Submittal information

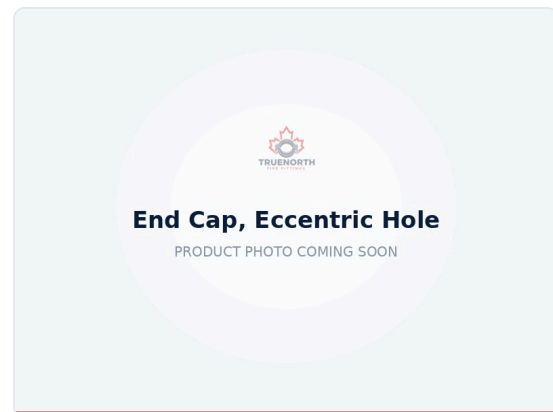
PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

REDUCERS & CAPS · PRODUCT DATA SHEET

End Cap, Eccentric Hole

Model TN-CAP-EH

Our own True North™ brand · Canadian brand



Product photo for illustration.

Installation

Install in accordance with NFPA 13, the project specifications and the authority having jurisdiction. See the True North™ Installation Guide.

Documentation

Material certificates and test reports on request. Weights and full dimensional drawings: contact us for details.

Grooved end cap with an off-centre threaded outlet, for drains and large reductions.

Size changes and line terminations.

Model no.	TN-CAP-EH
Materials we can supply	Ductile iron or segmentally welded carbon steel; painted or hot-dip galvanized
Size range	Sizes 1" to 24"; larger sizes on request.
Standards	For grooved pipe to AWWA C606 groove dimensions; ductile iron to ASTM A536 Grade 65-45-12 or carbon steel.
Approvals	see Quality & Approvals
Finish	Red RAL 3000 epoxy; galvanized or other colours on request
Working pressure	300 psi (2.07 MPa) max. CWP on Sch. 10 / Sch. 40 grooved steel pipe

Sizes

Sizes and pipe OD per the True North™ size list. For reducing fittings, sizes are run × branch. Larger sizes than those listed are available on request. Dimensions, pressure ratings and weights are available on request.

Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)	Nominal size (in)	Pipe OD (mm)
2" x 1"	60.3 × 33.7	4" x 1"	108 × 33.7	5" x 1"	141.3 × 33.7	8" x 1"	219.1 × 33.7
2-1/2" x 1"	73 × 33.7	4" x 1"	114.3 × 33.7	6" x 1"	159 × 33.7	10" x 1"	273 × 33.7
2-1/2" x 1"	76.1 × 33.7	5" x 1"	133 × 33.7	6" x 1"	165.1 × 33.7		
3" x 1"	88.9 × 33.7	5" x 1"	139.7 × 33.7	6" x 1"	168.3 × 33.7		

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL