



PRODUCT DATA SHEETS · ISSUE: OCTOBER 2026

Grooved Couplings Data Sheets

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.

CONTENTS

TN-RC-01 Rigid Coupling	2	TN-RDC-01 Reducing Coupling	6
TN-FC-01 Flexible Coupling	3	TN-RC-KS Rigid Coupling, KS Standard	7
TN-RC-02 Angle-Pad Rigid Coupling	4	TN-RB-01 Restraint Bolt	8
TN-RC-03 One-Stop Coupling	5		

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.

GROOVED COUPLINGS · PRODUCT DATA SHEET

Rigid Coupling

Model TN-RC-01

Our own True North™ brand · Canadian brand



Product photo for illustration.

Rigid grooved joint for mains, risers and long straight runs.

Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
Size range	Standard sizes 1-1/4" to 16"; 1" and 18" to 24" 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
Gasket	Grade E EPDM, -34 °C to +150 °C; nitrile or silicone on request
Bolts & nuts	Heat-treated carbon steel track bolts and nuts, class 8.8
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

All sizes: 300 psi (2.07 MPa) maximum cold water working pressure. Dimensions in mm, for reference: A = housing outside diameter, B = width across bolt pads, C = housing width. Bolts = qty-metric size × length (mm).

Size (in)	OD (mm)	A	B	C	Bolts	Size (in)	OD (mm)	A	B	C	Bolts
1" (on request)	33.7	58	98	45	2-M10×45	5"	133	164	216	50	2-M12×75
1-1/4"	42.4	68	106	45	2-M10×45	5"	139.7	166	217	50	2-M12×75
1-1/2"	48.3	74	114	45	2-M10×45	5"	141.3	173	225	50	2-M12×75
2"	60.3	86	128	45	2-M10×55	6"	159	193	246	50	2-M12×75
2-1/2"	73	98	137	45	2-M10×55	6"	165.1	199	252	50	2-M12×75
2-1/2"	76.1	98	141	45	2-M10×55	6"	168.3	197	244	48	2-M12×75
3"	88.9	112	155	45	2-M10×55	8"	219.1	255	322	58	2-M16×95
4"	108	140	189	50	2-M12×65	10"	273	318	400	62	2-M20×110
4"	114.3	140	192	50	2-M12×65	12"	323.9	372	454	64	2-M20×110

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

GROOVED COUPLINGS · PRODUCT DATA SHEET

Flexible Coupling

Model TN-FC-01

Our own True North™ brand · Canadian brand



Product photo for illustration.

Allows controlled deflection, expansion and contraction for thermal and seismic movement.

Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
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
Gasket	Grade E EPDM, -34 °C to +150 °C; nitrile or silicone on request
Bolts & nuts	Heat-treated carbon steel track bolts and nuts, class 8.8
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

All sizes: 300 psi (2.07 MPa) maximum cold water working pressure. Dimensions in mm, for reference: A = housing outside diameter, B = width across bolt pads, C = housing width. Bolts = qty-metric size × length (mm). Gap = allowable pipe-end gap (mm); Defl. = max. angular deflection per coupling.

Size (in)	OD (mm)	A	B	C	Bolts	Gap	Defl.	Size (in)	OD (mm)	A	B	C	Bolts	Gap	Defl.
1"	33.7	58	98	45	2-M10×45	1.6	5°30'	5"	133	164	216	50	2-M12×75	3.2	2°46'
1-1/4"	42.4	68	106	45	2-M10×45	1.6	4°20'	5"	139.7	168	222	50	2-M12×75	3.2	2°37'
1-1/2"	48.3	74	114	45	2-M10×45	1.6	3°48'	5"	141.3	172	222	50	2-M12×75	3.2	2°36'
2"	60.3	86	126	45	2-M10×55	1.6	3°01'	6"	159	190	236	50	2-M12×75	3.2	2°18'
2-1/2"	73	98	137	45	2-M10×55	1.6	2°30'	6"	165.1	196	244	50	2-M12×75	3.2	2°14'
2-1/2"	76.1	98	140	45	2-M10×55	1.6	2°24'	6"	168.3	197	244	50	2-M12×75	3.2	2°10'
3"	88.9	111	158	45	2-M10×55	1.6	2°04'	8"	219.1	251	318	58	2-M16×95	3.2	1°40'
4"	108	130	180	49	2-M12×65	3.2	3°24'	10"	273	318	386	60	2-M20×110	3.2	1°20'
4"	114.3	141	186	49	2-M12×65	3.2	3°12'	12"	323.9	372	454	64	2-M20×110	3.2	1°08'

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

GROOVED COUPLINGS · PRODUCT DATA SHEET

Angle-Pad Rigid Coupling

Model TN-RC-02

Our own True North™ brand · Canadian brand



Product photo for illustration.

Rigid coupling with angled bolt pads.

Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
Size range	Standard sizes 1-1/4" to 16"; 1" and 18" to 24" 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
Gasket	Grade E EPDM, -34 °C to +150 °C; nitrile or silicone on request
Bolts & nuts	Heat-treated carbon steel track bolts and nuts, class 8.8
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

All sizes: 300 psi (2.07 MPa) maximum cold water working pressure. Dimensions in mm, for reference: A = housing outside diameter, B = width across bolt pads, C = housing width. Bolts = qty-metric size × length (mm).

Size (in)	OD (mm)	A	B	C	Bolts	Size (in)	OD (mm)	A	B	C	Bolts
1" (on request)	33.7	58	98	45	2-M10×45	5"	133	—	—	—	On request
1-1/4"	42.4	68	106	45	2-M10×45	5"	139.7	172	222	50	2-M12×75
1-1/2"	48.3	74	114	45	2-M10×45	5"	141.3	—	—	—	On request
2"	60.3	86	128	45	2-M10×55	6"	159	—	—	—	On request
2-1/2"	73	98	137	45	2-M10×55	6"	165.1	199	252	50	2-M12×75
2-1/2"	76.1	103	141	45	2-M10×55	6"	168.3	202	252	50	2-M12×75
3"	88.9	114	158	45	2-M10×55	8"	219.1	258	322	58	2-M16×95
4"	108	—	—	—	On request	10"	273	320	394	60	2-M20×110
4"	114.3	143	192	49	2-M12×65	12"	323.9	372	450	64	2-M20×120

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

GROOVED COUPLINGS · PRODUCT DATA SHEET

One-Stop Coupling

Model TN-RC-03

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.

Pre-assembled coupling for faster installation.

Rigid, flexible and reducing couplings for grooved pipe.

Model no.	TN-RC-03
Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
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
Gasket	Grade E EPDM, -34 °C to +150 °C; nitrile or silicone on request
Bolts & nuts	Heat-treated carbon steel track bolts and nuts, class 8.8
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	5"	141.3
2-1/2"	73	4"	114.3	6"	165.1
2-1/2"	76.1	5"	139.7	6"	168.3

Submittal information

PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

GROOVED COUPLINGS · PRODUCT DATA SHEET

Reducing Coupling

Model TN-RDC-01

Our own True North™ brand · Canadian brand



Product photo for illustration.

Joins two grooved pipe sizes directly.

Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
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
Gasket	Grade E EPDM, -34 °C to +150 °C; nitrile or silicone on request
Bolts & nuts	Heat-treated carbon steel track bolts and nuts, class 8.8
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

All sizes: 300 psi (2.07 MPa) maximum cold water working pressure. Dimensions in mm, for reference: A = housing outside diameter, B = width across bolt pads, C = housing width. Bolts = qty-metric size × length (mm).

Size (in)	OD (mm)	A	B	C	Bolts	Size (in)	OD (mm)	A	B	C	Bolts
2" x 1-1/4"	60.3 × 42.4	86	125	44	2-M10×57	4" x 1-1/2"	114.3 × 48.3	142	192	50	2-M12×70
2" x 1-1/2"	60.3 × 48.3	86	125	44	2-M10×57	4" x 2"	114.3 × 60.3	142	192	50	2-M12×70
2-1/2" x 1-1/2"	73 × 48.3	96	136	45	2-M10×57	4" x 2-1/2"	114.3 × 73	142	192	50	2-M12×70
2-1/2" x 2"	73 × 60.3	96	136	45	2-M10×57	4" x 2-1/2"	114.3 × 76.1	142	192	50	2-M12×70
2-1/2" x 1-1/2"	76.1 × 48.3	—	—	—	On request	4" x 3"	114.3 × 88.9	142	192	50	2-M12×70
2-1/2" x 2"	76.1 × 60.3	102	140	45	2-M10×57	6" x 4"	165.1 × 114.3	200	250	50	2-M16×85
3" x 1-1/2"	88.9 × 48.3	115	158	45	2-M12×70	6" x 3"	168.3 × 88.9	202.5	252	50	2-M16×85
3" x 2"	88.9 × 60.3	115	158	45	2-M12×70	6" x 4"	168.3 × 114.3	202.5	252	50	2-M16×85
3" x 2-1/2"	88.9 × 73	115	158	45	2-M12×70	8" x 6"	219.1 × 168.3	257	322	56	2-M20×115
3" x 2-1/2"	88.9 × 76.1	115	158	45	2-M12×70						

Submittal information

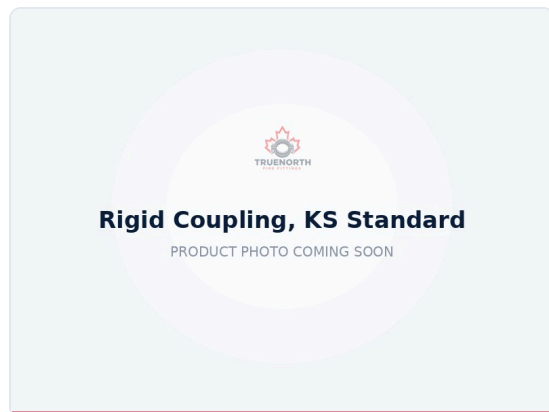
PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

GROOVED COUPLINGS · PRODUCT DATA SHEET

Rigid Coupling, KS Standard

Model TN-RC-KS

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.

Rigid grooved coupling for pipe to KS (Korean Standard) dimensions.

Rigid, flexible and reducing couplings for grooved pipe.

Model no.	TN-RC-KS
Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
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
Gasket	Grade E EPDM, -34 °C to +150 °C; nitrile or silicone on request
Bolts & nuts	Heat-treated carbon steel track bolts and nuts, class 8.8
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

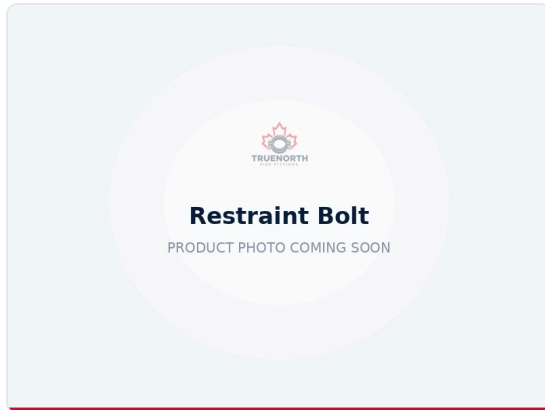
PROJECT	CONTRACTOR	ENGINEER	LOCATION
SPECIFICATION SECTION	SUBMITTAL NO.	DATE	APPROVAL

GROOVED COUPLINGS · PRODUCT DATA SHEET

Restraint Bolt

Model TN-RB-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.

Restraint bolt assembly for securing grooved joints against separation.

Rigid, flexible and reducing couplings for grooved pipe.

Model no.	TN-RB-01
Materials we can supply	Ductile iron or carbon steel; painted or hot-dip galvanized; 316 stainless steel couplings
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