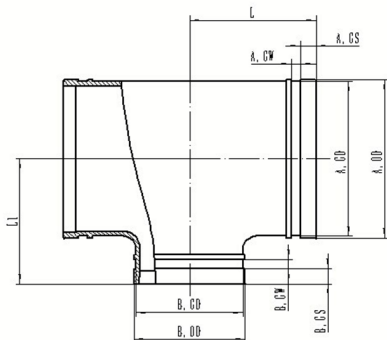


Size range: 2-1" - 12-10"

GROOVED TEE



Grooved reducing tees provide an economical and efficient method of adding a reduced grooved branch connection.

Reference		Nominal size		Pipe Ø O.D.	Grooved reducing tee dimensions										Weight	Marking	Approvals	
Red	Galva	NPS inch	DN mm	mm	L mm	L1 mm	A OD mm	A GD mm	A GS mm	A GW mm	B OD mm	B GD mm	B GS mm	B GW mm	kg		UL	FM
GRTR	GRTG	2 - 1	50 - 25	60,3 - 33,7	70	70	60,3	57,2	15,9	7,9	33,7	30,2	15,9	7,9	0,81	GRTLX	UL	FM
GRTR	GRTG	2 - 1¼	50 - 32	60,3 - 42,4	70	70	60,3	57,2	15,9	7,9	42,4	39,0	15,9	7,9	0,80	GRTLX	UL	FM
GRTR	GRTG	2 - 1½	50 - 40	60,3 - 48,3	70	70	60,3	57,2	15,9	7,9	48,3	45,1	15,9	7,9	0,84	GRTLX	UL	FM
GRTR	GRTG	2½ - 1¼	65 - 32	73,0 - 42,4	75	75	73,0	69,1	15,9	7,9	42,4	39,0	15,9	7,9	1,14	GRTLX	UL	FM
GRTR	GRTG	2½ - 1½	65 - 40	73,0 - 48,3	75	75	73,0	69,1	15,9	7,9	48,3	45,1	15,9	7,9	1,07	GRTLX	UL	FM
GRTR	GRTG	2½ - 2	65 - 50	73,0 - 60,3	75	75	73,0	69,1	15,9	7,9	60,3	57,2	15,9	7,9	1,05	GRTLX	UL	FM
GRTR	GRTG	2½ - 1¼	65 - 32	76,1 - 42,4	75	75	76,1	72,3	15,9	7,9	42,4	39,0	15,9	7,9	1,06	GRTLX	UL	FM
GRTR	GRTG	2½ - 1½	65 - 40	76,1 - 48,3	75	75	76,1	72,3	15,9	7,9	48,3	45,1	15,9	7,9	1,08	GRTLX	UL	FM
GRTR	GRTG	2½ - 2	65 - 50	76,1 - 60,3	75	75	76,1	72,3	15,9	7,9	60,3	57,2	15,9	7,9	1,06	GRTLX	UL	FM
GRTR	GRTG	3 - 1¼	80 - 32	88,9 - 42,4	70	86	88,9	84,9	15,9	7,9	42,4	39,0	15,9	7,9	1,32	GRTX	UL	FM
GRTR	GRTG	3 - 1½	80 - 40	88,9 - 48,3	86	86	88,9	84,9	15,9	7,9	48,3	45,1	15,9	7,9	1,51	GRTLX	UL	FM
GRTR	GRTG	3 - 2	80 - 50	88,9 - 60,3	75	85	88,9	84,9	15,9	7,9	60,3	57,2	15,9	7,9	1,32	GRTX	UL	FM
GRTR	GRTG	3 - 2½	80 - 65	88,9 - 73,0	85	85	88,9	84,9	15,9	7,9	73,0	69,1	15,9	7,9	1,47	GRTLX	UL	FM
GRTR	GRTG	3 - 2½	80 - 65	88,9 - 76,1	75	85	88,9	84,9	15,9	7,9	76,1	72,3	15,9	7,9	1,40	GRTX	UL	FM
GRTR	GRTG	4 - 2	100 - 50	114,3 - 60,3	101	101	114,3	110,1	15,9	9,5	60,3	57,2	15,9	7,9	2,35	GRTLX	UL	FM
GRTR	GRTG	4 - 2½	100 - 65	114,3 - 73,0	85	102	114,3	110,1	15,9	9,5	73,0	69,1	15,9	7,9	2,50	GRTX	UL	FM
GRTR	GRTG	4 - 2½	100 - 65	114,3 - 76,1	80	95	114,3	110,1	15,9	9,5	76,1	72,3	15,9	7,9	2,01	GRTX	UL	FM
GRTR	GRTG	4 - 3	100 - 80	114,3 - 88,9	85	95	114,3	110,1	15,9	9,5	88,9	84,9	15,9	7,9	2,06	GRTX	UL	FM
GRTR	GRTG	5 - 2	125 - 50	139,7 - 60,3	85	12	139,7	135,5	15,9	9,5	60,3	57,2	15,9	7,9	2,81	GRTX	UL	FM
GRTR	GRTG	5 - 2½	125 - 65	139,7 - 73,0	85	122	139,7	135,5	15,9	9,5	73,0	69,1	15,9	7,9	2,61	GRTX	UL	FM
GRTR	GRTG	5 - 2½	125 - 65	139,7 - 76,1	85	122	139,7	135,5	15,9	9,5	76,1	72,3	15,9	7,9	2,64	GRTX	UL	FM
GRTR	GRTG	5 - 3	125 - 80	139,7 - 88,9	100	122	139,7	135,5	15,9	9,5	88,9	84,9	15,9	7,9	3,40	GRTX	UL	FM
GRTR	GRTG	5 - 4	125 - 100	139,7 - 114,3	95	105	139,7	135,5	15,9	9,5	114,3	110,1	15,9	9,5	2,99	GRTX	UL	FM
GRTR	GRTG	5 - 2	125 - 50	141,3 - 60,3	85	122	141,3	137,0	15,9	9,5	60,3	57,2	15,9	7,9	2,81	GRTX	UL	FM
GRTR	GRTG	5 - 2½	125 - 65	141,3 - 73,0	85	122	141,3	137,0	15,9	9,5	73,0	69,1	15,9	7,9	2,61	GRTX	UL	FM
GRTR	GRTG	5 - 2½	125 - 65	141,3 - 76,1	85	122	141,3	137,0	15,9	9,5	76,1	72,3	15,9	7,9	2,64	GRTX	UL	FM
GRTR	GRTG	5 - 3	125 - 80	141,3 - 88,9	100	122	141,3	137,0	15,9	9,5	88,9	84,9	15,9	7,9	3,40	GRTX	UL	FM
GRTR	GRTG	5 - 4	125 - 100	141,3 - 114,3	95	105	141,3	137,0	15,9	9,5	114,3	110,1	15,9	9,5	2,99	GRTX	UL	FM
GRTR	GRTG	6 - 4	150 - 100	159,0 - 108,0	102	120	159,0	154,5	15,9	9,5	108,0	103,7	15,9	9,5	3,70	GRTX		
GRTR	GRTG	6 - 4	150 - 100	159,0 - 114,3	102	120	159,0	154,5	15,9	9,5	114,3	110,1	15,9	9,5	3,71	GRTX		
GRTR	GRTG	6 - 2	150 - 50	165,1 - 60,3	85	140	165,1	160,9	15,9	9,5	60,3	57,2	15,9	7,9	3,41	GRTX	UL	FM

Reference		Nominal size		Pipe Ø O.D.	Grooved reducing tee dimensions										Weight	Marking	Approvals	
Red	Galva	NPS inch	DN mm	mm	L mm	L1 mm	A OD mm	A GD mm	A GS mm	A GW mm	B OD mm	B GD mm	B GS mm	B GW mm	kg		UL	FM
GRTR	GRTG	6 - 2½	150 - 65	165,1 - 76,1	78	120	165,1	160,9	15,9	9,5	76,1	72,3	15,9	7,9	2,69	GRTX	UL	FM
GRTR	GRTG	6 - 3	150 - 80	165,1 - 88,9	102	122	165,1	160,9	15,9	9,5	88,9	84,9	15,9	7,9	3,95	GRTX	UL	FM
GRTR	GRTG	6 - 4	150 - 100	165,1 - 114,3	102	120	165,1	160,9	15,9	9,5	114,3	110,1	15,9	9,5	4,12	GRTX	UL	FM
GRTR	GRTG	6 - 5	150 - 125	165,1 - 139,7	108	125	165,1	160,9	15,9	9,5	139,7	135,5	15,9	9,5	4,48	GRTX	UL	FM
GRTR	GRTG	6 - 2	150 - 50	168,3 - 60,3	85	135	168,3	164,0	15,9	9,5	60,3	57,2	15,9	7,9	3,46	GRTX	UL	FM
GRTR	GRTG	6 - 2½	150 - 65	168,3 - 73,0	85	140	168,3	164,0	15,9	9,5	73,0	69,1	15,9	7,9	3,73	GRTX	UL	FM
GRTR	GRTG	6 - 2½	150 - 65	168,3 - 76,1	85	135	168,3	164,0	15,9	9,5	76,1	72,3	15,9	7,9	3,81	GRTX	UL	FM
GRTR	GRTG	6 - 3	150 - 80	168,3 - 88,9	100	140	168,3	164,0	15,9	9,5	88,9	84,9	15,9	7,9	4,06	GRTX	UL	FM
GRTR	GRTG	6 - 4	150 - 100	168,3 - 114,3	105	120	168,3	164,0	15,9	9,5	114,3	110,1	15,9	9,5	4,41	GRTX	UL	FM
GRTR	GRTG	8 - 2½	200 - 65	219,1 - 76,1	90	160	219,1	214,4	19,1	11,1	76,1	72,3	15,9	7,9	5,96	GRTX	UL	FM
GRTR	GRTG	8 - 3	200 - 80	219,1 - 88,9	100	165	219,1	214,4	19,1	11,1	88,9	84,9	15,9	7,9	6,94	GRTX	UL	FM
GRTR	GRTG	8 - 4	200 - 100	219,1 - 114,3	110	155	219,1	214,4	19,1	11,1	114,3	110,1	15,9	9,5	6,18	GRTX	UL	FM
GRTR	GRTG	8 - 5	200 - 125	219,1 - 139,7	130	175	219,1	214,4	19,1	11,1	139,7	135,5	15,9	9,5	8,04	GRTX	UL	FM
GRTR	GRTG	8 - 5	200 - 125	219,1 - 141,3	130	175	219,1	214,4	19,1	11,1	141,3	137,0	15,9	9,5	8,02	GRTX	UL	FM
GRTR	GRTG	8 - 6	200 - 150	219,1 - 165,1	140	155	219,1	214,4	19,1	11,1	165,1	160,9	15,9	9,5	7,94	GRTX	UL	FM
GRTR	GRTG	8 - 6	200 - 150	219,1 - 168,3	140	175	219,1	214,4	19,1	11,1	168,3	164,0	15,9	9,5	8,96	GRTX	UL	FM
GRTR	GRTG	10 - 4	250 - 100	273,0 - 114,3	125	210	273,0	268,3	19,1	12,7	114,3	110,1	15,9	9,5	9,68	GRTX	UL	FM
GRTR	GRTG	10 - 6	250 - 150	273,0 - 168,3	155	210	273,0	268,3	19,1	12,7	168,3	164,0	15,9	9,5	12,70	GRTX	UL	FM
GRTR	GRTG	10 - 8	250 - 200	273,0 - 219,1	190	210	273,0	268,3	19,1	12,7	219,1	214,4	19,1	11,1	15,20	GRTX	UL	FM
GRTR	GRTG	12 - 4	300 - 100	323,9 - 114,3	125	230	323,9	318,3	19,1	12,7	114,3	110,1	15,9	9,5	12,90	GRTX	UL	FM
GRTR	GRTG	12 - 6	300 - 150	323,9 - 168,3	155	230	323,9	318,3	19,1	12,7	168,3	164,0	15,9	9,5	15,40	GRTX	UL	FM
GRTR	GRTG	12 - 8	300 - 200	323,9 - 219,1	190	235	323,9	318,3	19,1	12,7	219,1	214,4	19,1	11,1	20,30	GRTX	UL	FM
GRTR	GRTG	12 - 10	300 - 250	323,9 - 273,0	220	235	323,9	318,3	19,1	12,7	273,0	268,3	19,1	12,7	22,30	GRTX	UL	FM

Material specifications

Housing: ductile iron conform to ASTM A536 Grade 65-45-12 (EN-GJS-450-10).

Coating:

- Hot dip galvanised.
- Red paint coating RAL 3000, epoxy powder coating (any other colour on request).

Applications

• Fire protection systems (water-based):

Wet, dry, deluge and pre-action sprinkler systems in accordance with FM / UL approvals and applicable standards.

• HVAC and building services:

Heating, cooling, and glycol-based systems.

• Industrial applications:

Compressed air, exhaust, drainage and other piping systems.

Working pressure

- **Sprinkler applications (water-based fire protection systems):**

Maximum working pressure 2,07 MPa / 20,7 bar / 300 psi, in accordance with applicable product certifications (e.g. FM, UL) and system standards (e.g. NFPA 13, EN 12845, APSAD).

- **Other media and non-sprinkler applications:**

The allowable working pressure depends on the fluid group and application and shall be determined in accordance with Directive 2014/68/EU (PED) and applicable technical documentation (available on Profit website CSTB certifications).

These products are typically classified under Article 4(3) (Sound Engineering Practice - SEP) and are not CE-marked.

The applicable PED category depends on system parameters and must be verified by the system designer.

These products are not intended for use with gases classified in Group 1 (hazardous media according to PED).

Such applications fall outside the scope of this datasheet.

- **Vacuum resistance (all media except gas group 1):**

Suitable for vacuum applications. Tested down to -0,85 bar(g) in according to FM1920.

For design purposes, a conservative limit of -0,55 bar(g) is recommended.

Approvals

- Sprinkler-specific:



GENERAL INFO

- Installers should be trained or experienced to install and understand the product.
- Before installation, carefully check the product on any damage during shipment or handling.
- Read and understand all technical datasheets and installation instructions before attempting to install, remove or adjust any Profit products.
- Check if the pressure rating of the product is compatible with the service conditions.
- Depressurise and drain the sprinkler installation system before attempting to install, remove or adjust any Profit products.
- Never work on piping systems that are pressurised and / or filled with water or pressurised air.
- Piping Logistics reserves the right to change specifications, designs and / or standard equipment without notice and without incurring in any obligations.
- Use the necessary Personal Protection Equipment (PPE) to avoid personal injury (helmet, safety shoes, goggles and gloves).



- Profit paint coated products are intended for piping with category C1 and C2 environment (indoor). For installations in category C3 we advise the use of our hot dip galvanised couplings and fittings. For application in corrosivity category C4 (higher salinity climate) or higher, please contact info@pipinglogistics.eu. (Classification according to ISO 9223)
- Pressure ratings listed for fire sprinkler applications are CWP (cold working pressure) or MWP (maximum working pressure) at a maximum service temperature of 66°C. This rating may occasionally differ from maximum working pressure listed and / or approved by UL and / or FM, as testing conditions and test pipes can differ. For more information, please contact info@pipinglogistics.eu.
- Maximum working pressure listed is the total of internal and external pressures based on standard weight (ANSI) steel pipe and standard roll or cut groove in accordance with Profit specifications. For more information, please contact info@pipinglogistics.eu.
- For more information on allowed pressures and temperatures related to HVAC applications please contact info@pipinglogistics.eu.
- For a onetime commissioning test only, the maximum joint working pressure may be increased to 150% of the working pressure.

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

Our product must always be stored in closed and dry environments. Once installed on an above ground sprinkler system, they require no specific maintenance.

REVISION TABLE

Date	△	Notes
28/09/2026		New design.