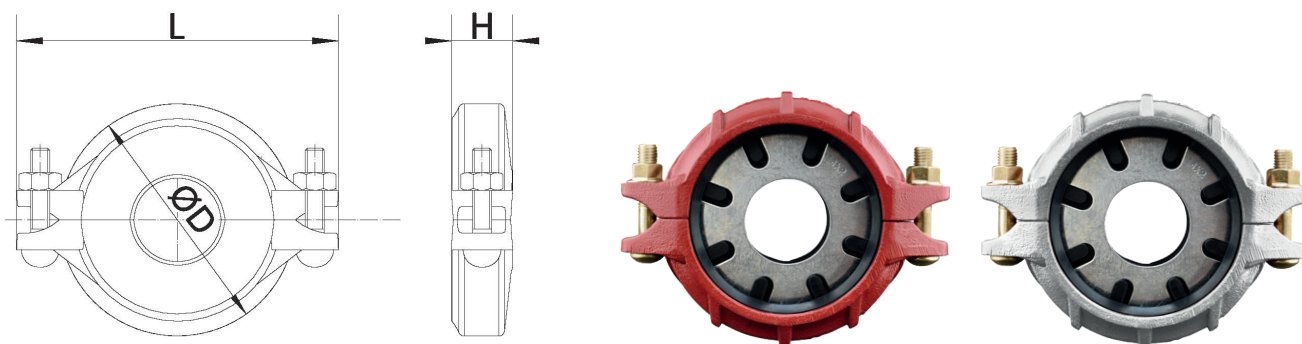


Size range: 1½"-1¼" - 8"-6"
REDUCING COUPLING



This coupling is a flexible coupling that allows for direct size reduction on a piping run and eliminates the need for a concentric reducer + couplings. The gasket has special design that allows both for horizontal and vertical installation.

Reference		Nominal size		Pipe Ø O.D.	Reducing coupling dimensions			Bolt size	Weight	Marking	Approvals	
Red	Galva	NPS inch	DN mm	mm	Ø D mm	L mm	H mm	d1xL mm	kg		UL	FM
GRKFR	GRKFG	1½ - 1¼	40 - 32	48,3 - 42,4	73,6	111	44	M10 x 45	0,70	GRKFT	UL	FM
GRKFR	GRKFG	2 - 1½	50 - 40	60,3 - 48,3	90,0	129	47	M10 x 55	0,83	GRKFT	UL	FM
GRKFR	GRKFG	2½ - 1½	65 - 40	73,0 - 48,3	101,0	137	48	M10 x 55	1,17	GRKFT	UL	FM
GRKFR	GRKFG	2½ - 2	65 - 50	73,0 - 60,3	101,0	137	48	M10 x 55	1,10	GRKFT	UL	FM
GRKFR	GRKFG	2½ - 1½	65 - 40	76,1 - 48,3	105,0	140	48	M10 x 55	1,19	GRKFT	UL	FM
GRKFR	GRKFG	2½ - 2	65 - 50	76,1 - 60,3	105,0	140	48	M10 x 55	1,13	GRKFT	UL	FM
GRKFR	GRKFG	2½ - 2½	65 - 65	76,1 - 73,0	100,4	141	47	M10 x 55	1,05	GRKFT	UL	FM
GRKFR	GRKFG	3 - 1½	80 - 40	88,9 - 48,3	120,0	164	48	M12 x 65	1,56	GRKFT	UL	FM
GRKFR	GRKFG	3 - 2	80 - 50	88,9 - 60,3	120,0	164	48	M12 x 65	1,40	GRKFT	UL	FM
GRKFR	GRKFG	3 - 2½	80 - 65	88,9 - 73,0	120,0	164	48	M12 x 65	1,37	GRKFT	UL	FM
GRKFR	GRKFG	3 - 2½	80 - 65	88,9 - 76,1	120,0	164	48	M12 x 65	1,36	GRKFT	UL	FM
GRKFR	GRKFG	4 - 1½	100 - 40	114,3 - 48,3	150,0	195	49	M12 x 65	2,13	GRKFT	UL	FM
GRKFR	GRKFG	4 - 2	100 - 50	114,3 - 60,3	150,0	195	49	M12 x 65	1,98	GRKFT	UL	FM
GRKFR	GRKFG	4 - 2½	100 - 65	114,3 - 73,0	150,0	195	49	M12 x 65	1,84	GRKFT	UL	FM
GRKFR	GRKFG	4 - 2½	100 - 65	114,3 - 76,1	150,0	195	49	M12 x 65	1,82	GRKFT	UL	FM
GRKFR	GRKFG	4 - 3	100 - 80	114,3 - 88,9	150,0	195	49	M12 x 65	1,81	GRKFT	UL	FM
GRKFR	GRKFG	6 - 4	150 - 100	165,1 - 114,3	203,0	235	50	M12 x 75	3,32	GRKFT		
GRKFR	GRKFG	6 - 3	150 - 80	168,3 - 88,9	203,0	235	50	M12 x 75	3,46	GRKFT	UL	FM
GRKFR	GRKFG	6 - 4	150 - 100	168,3 - 114,3	203,0	235	50	M12 x 75	3,35	GRKFT	UL	FM
GRKFR	GRKFG	8 - 6	200 - 150	219,1 - 168,3	264,0	313	60	M16 x 110	6,31	GRKFT	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).

Bolts and nuts:

- Medium carbon steel, zinc electroplated, quenched and tempered (ASTM A183/ISO 898).

For additional details we refer to our separate bolts & nuts datasheet.

Rubber gasket: standard delivered with EPDM Grade E gasket, manufactured from compounds meeting applicable ASTM D2000 requirements.

GASKET COMPOUND GRADE	REFERENCE CATALOGUE ITEM	TEMPERATURE RANGE (°C)	MEDIUM					
			Cold Water	Hot water	Air (oil-free)	Nitrogen	Glycol/ water mixtures	Air (with oil vapor)
EPDM	GKS, GKF, GKA, GKRF, GSF	-40°C / +110°C	✓	✓	✓	✓	✓	

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:



- Other qualifications:



- **KOMO® (KIWA):**

A quality mark that guarantees the quality, integrity and compliance with building regulations of products, processes, and services within the construction and infrastructure sectors for cold & hot non-drinking water applications up to 110°C. The certification is based on BRL 2013 and EN 681-1 standards.

- **Performance standards:**

The Profit grooved couplings comply with the applicable product performance requirements stated in ASTM F1476.

**We advise to not use this coupling combined with an end-cap
as there is a risk of leaks when a vacuum occurs.**

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.
- Independent technical datasheet for bolts & nuts and rubber gaskets.

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		Initial release.
21/10/2026	A	Page 3 - Addition of performance standards.