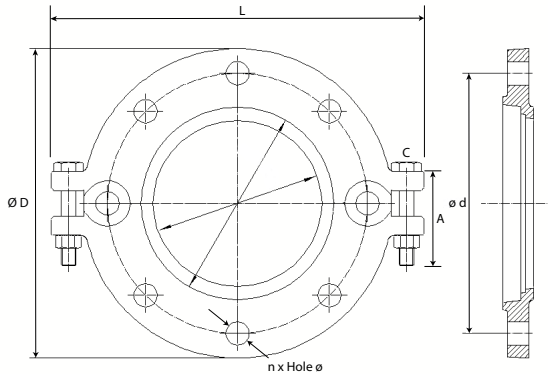


Size range: 2" - 10"
GROOVED FLANGE



Grooved split adapter flanges allow the connection between flanged and grooved end equipment.

Reference		Nominal size		Pipe Ø O.D.	Grooved split flange dimensions (PN16, EN 1092-2)						Weight	Marking	Approvals	
Red	Galva	NPS inch	DN mm	mm	L mm	Ø D mm	Ø d mm	Thickness	Holes n	Bolt size	kg		UL	FM
GSF16R	GSF16G	2	50	60,3	220	165	125	21	4	M16	1,72	GSFT16	UL	FM
GSF16R	GSF16G	2½	65	73,0	240	185	145	21	4	M16	2,15	GSFT16	UL	FM
GSF16R	GSF16G	2½	65	76,1	240	185	145	21	4	M16	2,15	GSFT16	UL	FM
GSF16R	GSF16G	3	80	88,9	255	200	160	21	4	M16	2,45	GSFT16	UL	FM
GSF16R	GSF16G	4	100	108,0	280	220	180	22	8	M16	2,76	GSFT16	UL	FM
GSF16R	GSF16G	4	100	114,3	280	220	180	22	8	M16	2,76	GSFT16	UL	FM
GSF16R	GSF16G	5	125	133,0	318	250	210	22	8	M16	3,43	GSFT16	UL	FM
GSF16R	GSF16G	5	125	139,7	318	250	210	22	8	M16	3,43	GSFT16	UL	FM
GSF16R	GSF16G	5	125	141,3	318	250	210	22	8	M16	3,43	GSFT16	UL	FM
GSF16R	GSF16G	6	150	159,0	336	285	240	22	8	M20	3,94	GSFT16	UL	FM
GSF16R	GSF16G	6	150	165,1	346	285	240	22	8	M20	3,94	GSFT16	UL	FM
GSF16R	GSF16G	6	150	168,3	346	285	240	22	8	M20	3,94	GSFT16	UL	FM
GSF16R	GSF16G	8	200	219,1	410	340	295	26	8	M20	6,50	GSFT16	UL	FM
GSF16R	GSF16G	10	250	273,0	500	405	355	27	8	M20	10,00	GSFT16	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.

Rubber gasket:

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	✓	✓	✓	✓	✓	

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) and system standards (e.g. NFPA 13, EN 12845, APSAD). Following limitations apply for UL: 2" - 8": 2,07 MPa / 20,7 bar / 300 psi; 10": 1,21 MPa / 12,1 bar / 175 psi.

- **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.

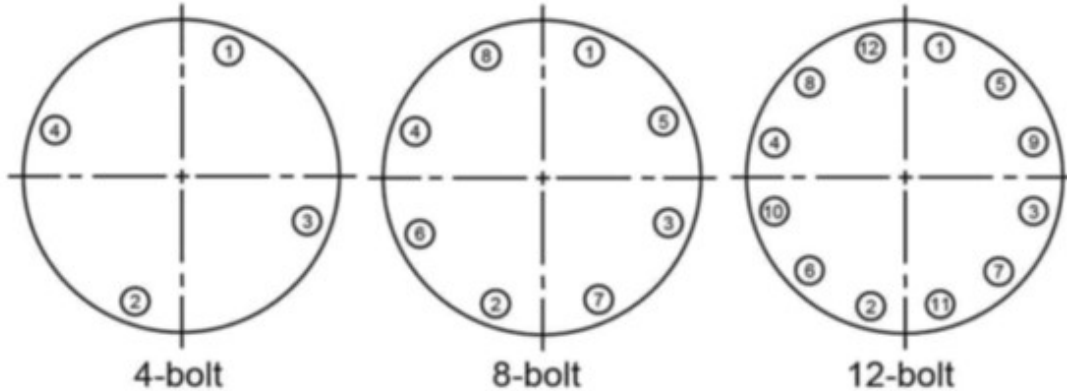
Approvals

- Sprinkler-specific:



BOLT TORQUE SEQUENCE

(Bolt N°1 is the bolt closest to biggest gap between the 2 flanges)



Our advice =

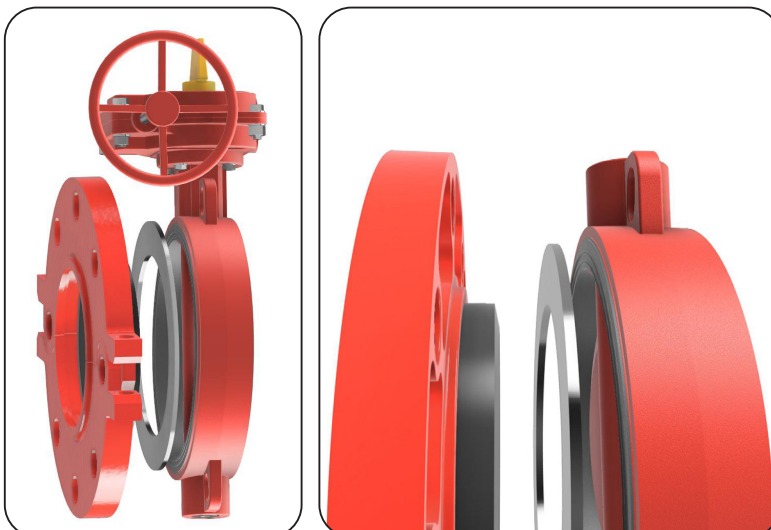
- STEP 1 = 30%
- STEP 2 = 60%
- STEP 3 = 100%

BOLT TORQUE = depends on gasket type used and bolt material grade.

Optional item

Ring GSF

When installing GSF against a rubber facing (rubber lined piping, rubber faced flange, wafer butterfly with rubber facing) there is the need of installing an extra insertion steel ring type RING GSF.



GSF16 size	A	B
2"	60	102
2,5"	77	122
3"	90	140
4"	115	158
5"	140	188
6"	169	217
8"	217	272
10"	272	320

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.