

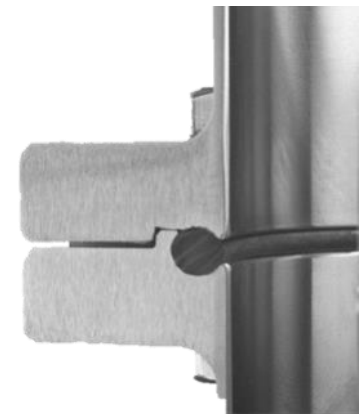


M&S flange connections are used for the detachable connection of pipelines as well as for the connection of machines, apparatus and containers. Due to their design, they are well suited for steam and pressure lines as well as for connections that are exposed to vibration.

Depending on the operational requirements, the operating conditions and the hygienic demand, a suitable and appropriate flange connection must be selected. They are manufactured in accordance with the applicable standards and are always made of forged primary material at M&S.

Variations of flange connections

Flange connection DIN 11864-2



Usage

Features

Versions

- As a detachable connection in pipelines and for connecting machines, apparatus and containers, especially in steam and pressure systems.
- For easier disassembly of fittings, valves and other system parts that are integrated in rigid piping.
- For connections or fittings that are subject to movement or vibration.


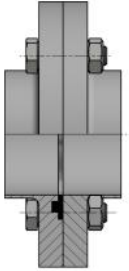


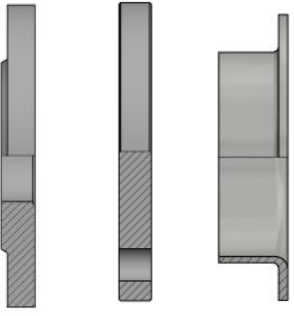
Usage

Features

Versions

- All flange connections
 - * Pressure-resistant even at higher pressures (standard flanges are available in various pressure ratings) and temperatures (depending on the gasket material).
 - * When opened, impermissible overpressure can be relieved more safely.
 - * Depending on the design, for simple to high hygienic requirements.
- Flange connections DIN 11864-2/11853-2 with O-ring
 - * For very high hygienic requirements (EHEDG-certified).
 - * Dead-space free sealing due to defined deforming of the O-rings.
 - * Self-centring of the connecting parts for gap-free aligned passage.
 - * Uniform pretensioning of the gasket by means of a metallic stop prevents any necessary re-tightening in the event of a temperature change and guarantees a longer service life of the O-ring.
- Hygienic flange connection with moulded gasket
 - * For high hygienic requirements.
- Small flange connection with moulded gasket
 - * For normal hygienic requirements.
- Flange connection according to DIN EN 1092-1
 - * Not suitable for hygienic connections.
 - * Suitable for higher pressure ranges.
 - * Suitable for higher temperature ranges depending on the gasket material.



Usage	Features	Versions
<ul style="list-style-type: none">• Flange connection DIN 11864-2/11853-2 with O-ring (figure 1)<ul style="list-style-type: none">* Sizes DN 10 - DN 150 (1/2" - 4") for pipes according to DIN 11866 and DIN EN 10357.* Pipe end DIN 11864-1 (long), DIN11853-1 (short)* Operating pressure 25/16/10 bar depending on dimension* Materials 1.4435, 1.4404, 1.4307, other stainless steels, titanium or hastelloy* FDA compliant gaskets: VMQ, EPDM, HNBR, FKM.* Surfaces inside and outside classified in different hygienic classes.• Hygienic flange connection with moulded gasket (figure 2)<ul style="list-style-type: none">* Sizes DN 15 - DN 150 for pipes according to DIN 11866 and DIN EN 10357.* Operating pressure 10 bar* Materials<ul style="list-style-type: none">◆ Flanges: AISI 316L◆ Gasket: EPDM* Surfaces mat blastet, blank and others.• Small flange connection with moulded gasket (figure 3)<ul style="list-style-type: none">* Sizes DN 10 - DN 150 for pipes according to DIN EN 10357, other available size ranges: Inch, ISO* Operating pressure 10 bar* Materials 1.4404/AISI 316L, 1.4307/AISI 304L* FDA compliant gaskets: VMQ, NBR, EPDM, HNBR, FKM, PTFE.* Surfaces mat blasted, blank and others.• Flange connection according to DIN EN 1092-1 for pipes according to DIN EN ISO 1127 and DIN EN 10357<ul style="list-style-type: none">* Weld neck flanges (figure 4)<ul style="list-style-type: none">◆ Sizes DN 15 - DN 200◆ Various pressure ratings* Plain- and blind flanges (figure 5)<ul style="list-style-type: none">◆ Sizes DN 15 - DN 200◆ Various pressure ratings* Loose flanges with weld neck collar (figure 5)<ul style="list-style-type: none">◆ Sizes DN 15 - DN 200◆ Various pressure ratings		<p>Fig. 1 </p> <p>Fig. 2 </p> <p>Fig. 3 </p> <p>Fig. 4 </p> <p>Fig. 5 </p>