

MASTERING FLANGE CONNECTIONS

Unlocking seamless integration and efficiency: A comprehensive guide to flange connection types, benefits, and applications

Let's Work Hand in Hand

WE GUIDE YOU TO YOUR IDEAL FLANGE SOLUTION

- + Cost-effective installation
- + Secure connections
- + Flexible drilling patterns e.g. ANSI, DIN EN1092-1

- + Corrosion and stress cracking resistance
- + Efficient fluid transport
- + Lightweight design



Exploring Flange Connections:

TYPES, BENEFITS, AND APPLICATIONS

Stub end

for flange-flange connections

Your benefits:

- + can be combined with various freely rotatable loose flanges
- + economical





short version

long version

electrofuion fitting





short version

long version

electrofuion fitting







short version

long version

electrofuion fitting







Here you get technical data sheets, product dimensions, and detailed drawings.

Special flange

for the connection to valves in accordance with nominal widths (no offset)

Your benefits:

- + force-fit connection
- + especially stable
- + integrated o-ring-gasket (EPDM)

Full face flange

for particularly high pressure ratings (connection dimensions are similar to stub end + loose flange)

Your benefits:

- + force-fit connection
- + especially stable
- + outer diameter is identical to flange
- + integrated o-ring-gasket (EPDM)

Outlet flange adaptors

for use with water check valves

Your benefits:

+ allows full opening of the water check valve

Blanking flange set

to complete a line while maintaining the option to extension

Your benefits:

- + Medium in the pipe only comes into contact with PE
- + reusable flange

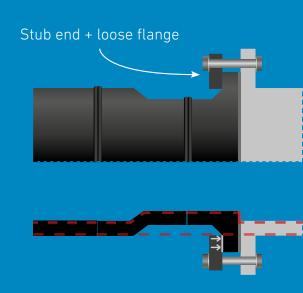
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Perfect valve connection STAR SPECIAL FLANGE

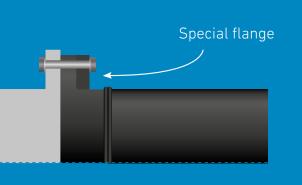
With specifically aligned dimensions for valves, the STAR special flange offers the perfect connection from PE to steel, cast iron and valves.

Conventional PE dimensions do not match the standard dimensions of steel, cast iron pipes and valves. In contrast, the STAR special flange is precisely matched in its dimensions for such connections. This makes it possible to produce a connection, which merges into one another without offset.









1 2

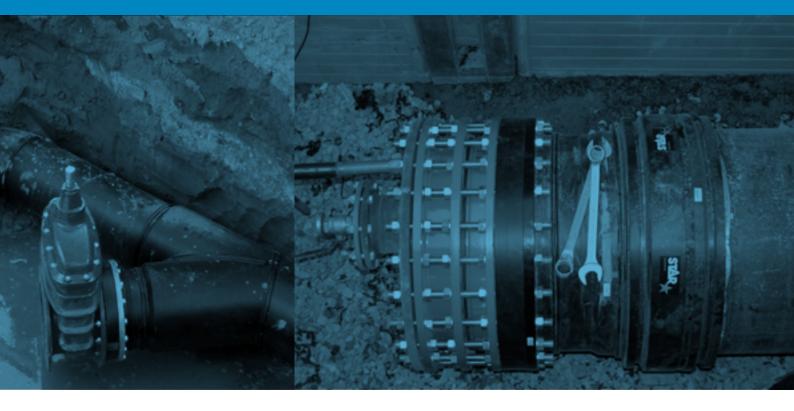
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That's why using a special flange:

① Reduced dead space for ideal flow characteristics

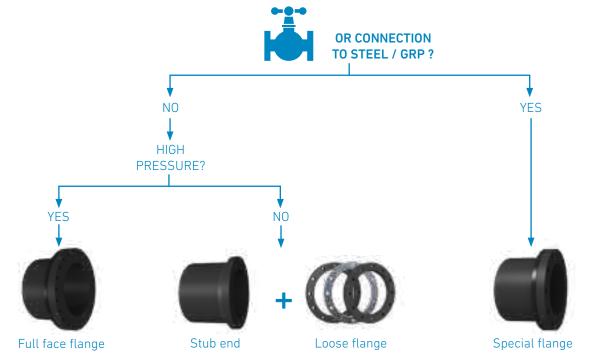
> (2) Connection without offset

③ Force-fit connection without tipping effect



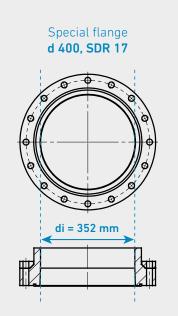
Which kind of flange for which application?



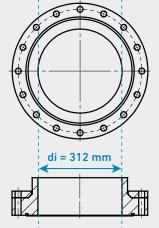


| Valve | DN [mm] | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|----------------------------|------------------|----|----|-----|------------|------------|------------|------------|------------|-----|-----|-----|-----|------------|------------|-----|-----|------|------|------|
| Special flange | d [mm] | - | 90 | 110 | 140 | 160 180 | 200 | 250 | 315 | 355 | 400 | 450 | 500 | 560 | 710 | 800 | 900 | 1000 | 1200 | - |
| Stub end + loose flange | d [mm] | 63 | 75 | 90 | 110 125 | 140 | 160 180 | 200 225 | 250 280 | 315 | 355 | 400 | 450 | 450 500 | 560 630 | 710 | 800 | 900 | 1000 | 1200 |

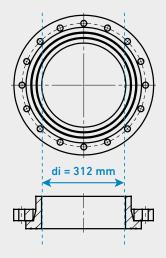
Example: Special flange, full face flange and stub end with loose flange in comparison CONNECTION TO A VALVE PN 10, DN 350



Full face flange d 355, SDR 17



Stub end + loose flange d 355, SDR 17







Application: Renovation of a service water pipeline

Special flange d 560 mm, PN 10

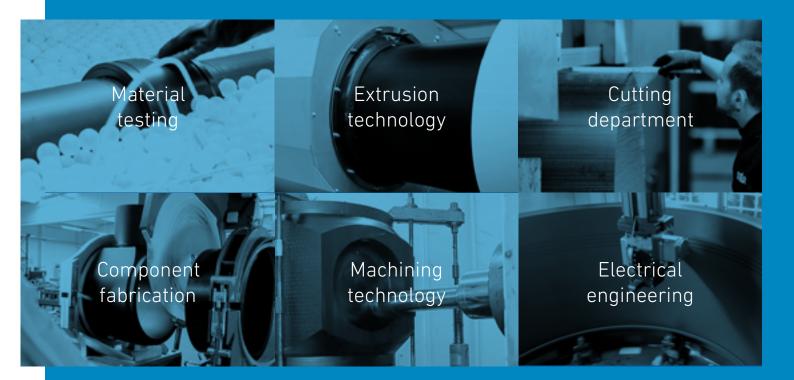
Application: Installation of a pig trap



Application: **Renovation of a wastewater pressure pipeline**

Solutions you trust THAT'S WHY STAR PIPING SYSTEMS

- + Personal advisory service
- + In-house engineering
- + Provision of planning data
- + Custom components and prefabrication
- + Comprehensive product portfolio
- + Dimensions up to d 2500 mm
- + Product expertise and technology



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