



# Special flanges

[www.star.de.com](http://www.star.de.com)



Special flange connection d 560 mm / DN 500 mm, SDR 17

# Special flange connections

With the for valves specifically aligned dimensions the STAR special flanges are offering the perfect connection from PE to steel and cast iron.

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

Our special flanges are providing a solution which allows you to connect to valves without changing the nominal diameter and simultaneously to achieve price advantages as the required valve can be chosen one dimension smaller. STAR special flanges are designed for high operating pressures and available in several dimensions and patterns. The backing ring can be supplied in galvanized steel, stainless steel or with a high quality plastic coating.

Suitable for industrial applications, supply and disposal.

## Delivery program

- Dimensions from d 90 up to 1200 mm
- drilled according to PN 10 and PN 16
- various SDR-classes:  
SDR 17 /11
- with galvanized steel, stainless steel or plastic coating backing ring
- other materials on request

## Versions



## Technical data sheets

With our comfortable product database, we offer you the service to generate a technical data sheet for each product and to download it as PDF. Try it now!



[www.star.de.com](http://www.star.de.com)



# Advantages of special flanges

compared to a connection with stub end and loose flange:



### Stub end + loose flange

stub end + loose flange

- Narrow bearing surface (1), low power transmission
- Offset at valve connection(2)
- Tipping effect (3)
- Leakage at high pressures
- Additional use of a reduction is necessary

### Special flange

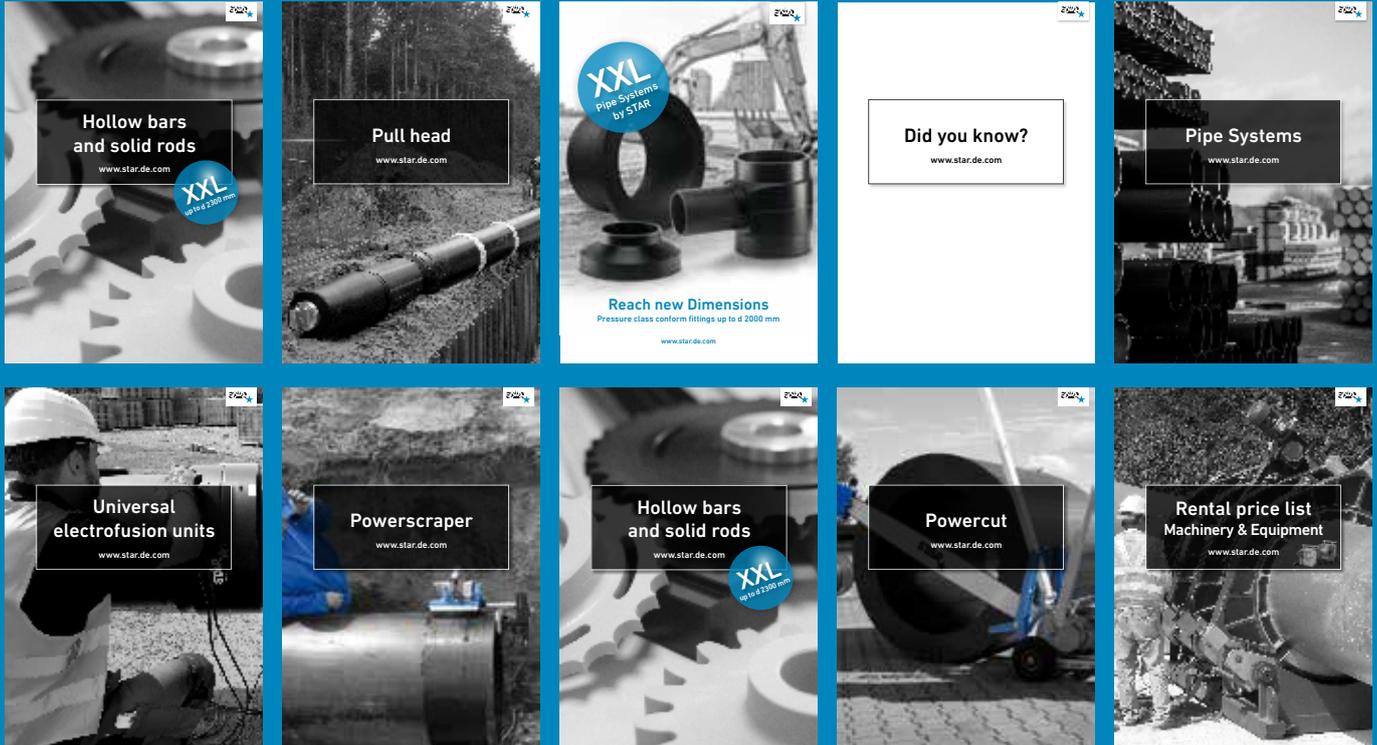
valve flange

- + Force-fit connection(4)  
PE-fixed flange and backing ring are flushed with each other, whereby the forces are evenly distributed.
- + Connection without changing the nominal diameter (5)  
i.e. on grade transition of plastic piping systems to steel and cast iron valves and fittings. The result is an ideal flowability and reduced dead space.  
This means:
  - + Reduced dead space
  - + Ideal flow characteristics
- + Integrated o-ring-gasket  
Provides by its optimal positioning maximum safety.

## DIMENSION OVERVIEW:

Valve	DN [mm]	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
valve flange	d	-	90	110	140	160 180	200	250	315	355	400	450	500	560	710	800	900	1000	1200	-
stub end + loose flange	d	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

## Overview:



We provide you with high-quality and efficient solutions for applications in supply and disposal.

In addition to our high-quality standard and special fittings, seamless bends, electrofusion fittings, pipes and hollow bars and solid rods, we also offer suitable welding equipment for joining and welding technique.

Our extensive product range gives you the possibility to obtain every-thing from a single source and for almost every building project.

See for yourself.

### **STAR Piping Systems GmbH**

Am Schornacker 90, 46485 Wesel  
Germany

Tel.: + 49 281 98414 - 0

Fax: + 49 281 98414 - 48

[www.star.de.com](http://www.star.de.com)