

# Friedrich Geldbach

**Brochure**



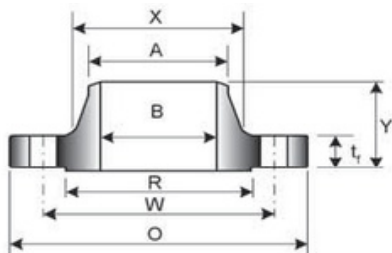
ASME B16.5 gilt für Flansche, die aus Stahlguss oder aus Schmiedestücken hergestellt sind, sowie Blindflansche und bestimmte Reduzierflansche, die aus Stahlguss, Schmiedestücken oder Flacherzeugnissen hergestellt sind. ASME B16.47 gilt für aus Stahlguss oder Schmiedestücken hergestellte Flansche und für Blindflansche, die aus Stahlguss Schmiedestücken oder Flacherzeugnissen hergestellt sind.

ASME B16.5 is limited to flanges made from cast or forged materials, blind flanges and certain reducing flanges made from cast, forged or plate materials. ASME B16.47 is limited to flanges made from cast or forged materials and for blind flanges made from cast, forged, or plate materials

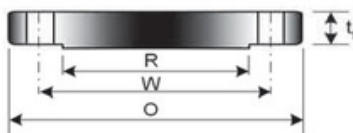
## Flanschtypen / Type of flanges

Dargestellt sind die Flanschtypen nach ASME B16.5; die ASME B16.47 enthält nur Vorschweiß- und Blindflanschen

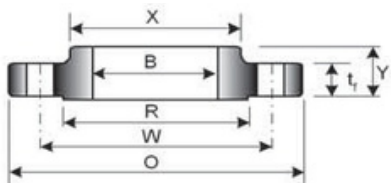
Type of flanges acc. to ASME B16.5 are shown, ASME B16.47 contains welding neck and blind flanges only



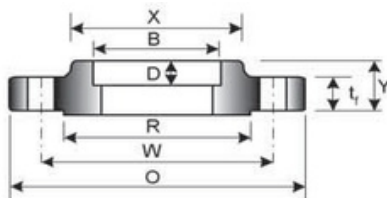
Vorschweißflansch / Welding Neck Flange



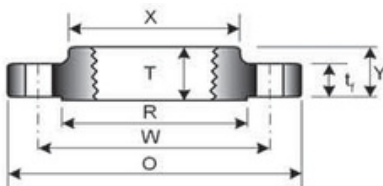
Blindflansch / Blind Flange



Überschießschweißflansch / Slip-On Flange



Einsteckschweißflansch / Socket Welding Flange



Gewindeflansch / Threaded Flange

|                                                                                                            |                                                                                           |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Maßgebend für das Anwenden der aufgeführten Normen ist deren Original-Fassung mit dem neusten Ausgabedatum | When using printed standards, the most recent issue of the original version shall prevail |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| Flanschenart<br>Type of Flange                                    | ASME B16.5                                  | BS 3293 | ASME B16.47<br>Serie A<br>MSSSP-44*) | ASME B16.47<br>Serie B<br>API Std 605*) | ASME B16.36 | Material<br>Material Grade                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------|---------------------------------------------|---------|--------------------------------------|-----------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   | Nenndruck / Nominal pressure<br>Lbs/sq. In. |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Welding Neck Flanges<br>Vorschweißflansche Long                   | 150-2500                                    | 150-600 | 150-900                              | 75-900                                  |             | ASTM A105 C21 ASTM A350<br>Grade LF2 Cl.1 ASTM A694 Grade<br>F52 ASTM A182 Grade F316L /<br>F304L ASTM A182 Grade F321<br>ASTM A182 Grade F347 / F347H<br>ASTM A182 Grade F5 ASTM<br>A182 Grade F11 ASTM A182<br>Grade F22<br><br>ASTM A182 Grade F91<br>ASTM A182 Grade F51 / F60<br>Alloy 825 |
| Welding Neck Flanges<br>Flanschstützen <sup>2)</sup> Welding Neck |                                             |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Flanges Ring Joint<br>Vorschweißflansche mit Ringnut              | 150-1500                                    | 300-600 | 300-900                              |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Slip-On Flanges<br>Überschiebflansche Slip-On                     | 150-1500                                    | 300-600 |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Flanges Ring Joint<br>Überschiebflansche mit Ringnut              | 150-1500                                    |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Lap Joint Flanges                                                 | 150-2500                                    |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Lose Flansche                                                     |                                             |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Blind Flanges<br>Blindflansche                                    | 150-2500                                    |         |                                      | 75-900                                  |             |                                                                                                                                                                                                                                                                                                 |
| Socket Welding Flanges<br>Einsteckschweißflansche                 | 150-1500                                    |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Threaded Flanges<br>Gewindeflansche                               | 150-2500                                    |         |                                      |                                         |             |                                                                                                                                                                                                                                                                                                 |
| Orifice Flanges<br>Meßscheibenflansche                            |                                             |         |                                      |                                         | 300-2500    |                                                                                                                                                                                                                                                                                                 |

\*) für Flansche ab 26"
\*) for flanges from nominal size 26"

<sup>2)</sup> Flansche in Sonderausführung auf Anfrage
<sup>2)</sup> Flanges of special design on enquiry

## Flanschenart / Type of flange

|                               |      |      |      |      |      |      |      |
|-------------------------------|------|------|------|------|------|------|------|
| Nominal Pressure Lbs/sq. In.  | 150  | 300  | 400  | 600  | 900  | 1500 | 2500 |
| Nennndruck kp/cm <sup>2</sup> | 10,6 | 21,1 | 28,1 | 42,2 | 63,3 | 106  | 176  |
| Nennndruck N/cm <sup>2</sup>  | 104  | 207  | 276  | 414  | 621  | 1030 | 1726 |

|                                |                                                                  |  |  |  |  |  |  |
|--------------------------------|------------------------------------------------------------------|--|--|--|--|--|--|
| Type of flanges / Flanschenart | from 1/2" to max. nominal sizes* / von 1/2" bis max. Nennweiten* |  |  |  |  |  |  |
|--------------------------------|------------------------------------------------------------------|--|--|--|--|--|--|

|                                                |     |     |     |     |     |        |     |
|------------------------------------------------|-----|-----|-----|-----|-----|--------|-----|
| Welding Neck Flanges<br>Vorschweißflansche     | 24" | 24" | 24" | 24" | 24" | 24"    | 12" |
| Slip-On Flanges<br>Überschießflansche          | 24" | 24" | 24" | 24" | 24" | 2 1/2" | —   |
| Lap Joint Flanges<br>Lose Flansche             | 24" | 24" | 24" | 24" | 24" | 24"    | 12" |
| Blind Flanges<br>Blindflansche                 | 24" | 24" | 24" | 24" | 24" | 24"    | 12" |
| Socket Weld Flanges<br>Einsteckschweißflansche | 3"  | 3"  | —   | 3"  | —   | 2 1/2" | —   |
| Threaded Flanges<br>Gewindeflansche            | 24" | 24" | 24" | 24" | 24" | 12"    | 12" |

\* Flansche über NW 24"

siehe BS3293, ASME B16.47SerieA/B

\* for flanges larger than 24"

see BS3293, ASME B16.47 Serie A/B

|                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                 |
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| <b>Technische Lieferbedingungen</b><br>Die Flansche werden bearbeitet und gebohrt geliefert.<br>Die Mutterauflagflächen sind gedreht oder nach MSS-SP 9 hinterfräst. Die Flansche werden mit den angegebenen Mittellochdurchmessern geliefert, wenn nichts anderes vorgeschrieben ist | <b>Technical Terms of delivery</b><br>Flanges are furnished faced and drilled. Flanges are back faced or spot faced according to MSS-SP 9. This applies to spot facing. Flanges are bored to the foreseen dimensions unless otherwise required. |
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|                                                                                                                                                |                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Ergänzende Bemerkung zu Toleranzen</b><br>(Nicht in ASME B16.5 enthalten)<br>Toleranzen in Anlehnung an DIN 2512<br>Dichtleistenhöhe +0,5mm | <b>Additional Remark for Tolerances</b><br>(not covered by ASME B16.5)<br>Tolerances followed DIN 2512<br>Height of facing +0,5mm |
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| <b>Beispiel für die Kennzeichnung</b><br>Flansche sind gekennzeichnet nach ASME B16.5:<br>Herstellername oder Handelsmarke<br>B16<br>Nennweite<br>Nenndruckstufe<br>Werkstoffbezeichnung<br>Chargen-Nr.<br>Schedule-Nr.<br>Ring-Nr. bei RTJ Nut Flansche | <b>Example of Marking</b><br>Flanges are marked as required in ASME B16.5 with the following dates:<br>Manufacturer's name or trademark<br>B16<br>Nominal size<br>Primary service pressure<br>Material designation<br>Heat code<br>Schedule No.<br>Ring Number only when using Ring Joint Flanges |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Bar/PN/Lbs./Class # |     |      |       |
|---------------------|-----|------|-------|
| Bar                 | ISO | PSIG | Class |
|                     | PN  | Lbs. | #     |
| 7                   |     | 100  |       |
| 10                  | 10  |      |       |
| 16                  | 16  |      |       |
| 17                  |     | 250  |       |
| 20                  | 20  |      | 150   |
| 25                  | 25  |      |       |
|                     |     | 500  |       |
|                     | 40  |      |       |
|                     | 50  |      | 300   |
|                     |     | 750  |       |
|                     | 64  |      |       |
| 66                  |     |      | 400   |

| Bar/PN/Lbs./Class # |     |      |       |
|---------------------|-----|------|-------|
| Bar                 | ISO | PSIG | Class |
|                     | PN  | Lbs. | #     |
| 70                  |     | 1000 |       |
| 100                 | 100 |      | 600   |
| 105                 |     | 1500 |       |
| 130                 |     |      | 800   |
| 140                 |     | 2000 |       |
| 150                 | 150 |      | 900   |
| 175                 |     | 2500 |       |
| 210                 |     | 3000 |       |
| 245                 |     | 3500 |       |
| 250                 | 250 |      | 1500  |
| 280                 |     | 4000 |       |
| 420                 | 420 |      | 2500  |

## FLANGES WE OFFER



**SLIP-ON**



**THREADED**



**BLIND**



**SOCKET  
WELD**



**WELDING  
NECK**

### SPECIFICATIONS:

#### STANDARDS:

ASTM A105 , API, ASME, AND ANSI B16.5

- size: 1/4" - 48"
- Thickness: Class 150 -2,500
- All Items will have an accompanying Mill Test Certificate upon request

### APPLICATIONS:

- Industrial
- Residential
- Petrochemical Plants
- Oil & Gas
- Refineries
- Sugar Mills
- Energy

- Construction & Infrastructure
- Chemicals
- Machineries
- Boilers
- Food & Beverage
- Shipping
- Desalination Plant
- Power Plants

- Automotive & Transport
- High-Pressure Vessel



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