



Stainless steel pipe bends for pneumatic conveying systems

hs-Umformtechnik is your reliable partner for the production of thin-walled pipe bends with large bending radii, especially those used in pneumatic conveyors. Our products are cold-bent without wrinkles on state-of-the-art CNC mandrel bending machines. On request we can produce extension pipe bends according to your specific requirements. Besides our standard range of stock products in stainless steel, we also process aluminium.

- Leg extension each side
- Extremely low ovality
- Visually aesthetic surface
- No start-up bulges
- No scratching or scoring on the products
- Deburred ends
- Outer diameters from 38.0 - 168.3 mm
- Radii of 500, 800, 1,000 mm
- Wall thicknesses of 1.5 mm / 2.0 mm

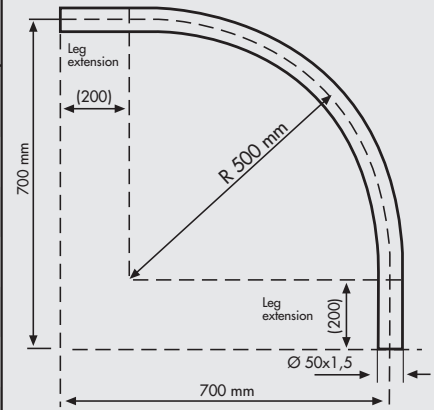
**On request also available
in AISI 316L / 316Ti
(1.4404 / 1.4571)
or other materials**



For use in clean air pipe systems, pipe bends with small bending radii are the ideal alternative to type 3 pipe bends with welded-on leg extensions.

Stock list of stainless steel pipe bends

Outer pipe diameter in mm	Radius in mm									
	70	75	115	150	250	300	500	800	1000	
38.0 x 1.5	●				●	●	●	●	●	
40.0 x 1.5		●			●		●	●	●	
45.0 x 1.5		●				●	●	●	●	
50.0 x 1.5		●		●	●		●	●	●	
50.0 x 2.0		●		●	●		●	●	●	
50.8 x 2.0							●	●	●	
54.0 x 2.0		●		●	●		●	●	●	
60.3 x 1.5							●	●	●	
60.3 x 2.0			●		●	●	●	●	●	
63.5 x 2.0				● R = 160 mm			●	●	●	
65.0 x 1.5							●	●	●	
65.0 x 2.0			●		●	● R = 400 mm	●	●	●	
70.0 x 2.0					●	●	●	●	●	
76.1 x 2.0					●	●	●	●	●	
80.0 x 1.5							●	●	●	
80.0 x 2.0				●	●		●	●	●	
84.0 x 2.0				●	●		●	●	●	
85.0 x 2.0							●	●	●	
88.9 x 2.0				●	●		●	●	●	
100.0 x 1.5				●	●		●	●	●	
101.6 x 2.0				●	●		●	●	●	
104.0 x 2.0				●	●		●	●	●	
108.0 x 2.0							●	●	●	
114.3 x 2.0				●			●	●	●	
128.0 x 1.5							●	●	●	
129.0 x 2.0							●	●	●	
133.0 x 3.0							●	●	●	
139.7 x 2.0							●	●	●	
154.0 x 2.0							●	●	●	
156.0 x 2.0							●	●	●	
159.0 x 2.0							●	●	●	
168.3 x 2.0							●	●	●	



Pipe bend quality

- Leg extension of 200 mm each side (smaller radii with 100 mm leg extension)
- Pipe bends in material no. AISI 304 / 1.4301
- Welded seam smoothed or shaved DIN 11 850
- Absolutely wrinkle-free, no start-up bulges
- No scratching or scoring
- Extremely low ovality
- Visually aesthetic surface

Do you have any more questions?

phone +49 (0) 93 46 / 92 99-0

... thicker-walled pipes also available at short notice!

● Immediately available from stock

Pipe couplings

for fast and easy assembly

Our pipe couplings have an ideal price-performance ratio and are particularly easy to install.



for pipe diameters
from 60.3 to 168.3 mm

fast &



DVK 6

for pipe diameters from 33.7 to 110.0 mm
Suction conveying

- pressure-resistant up to max. 6 bar / vacuum-resistant up to 0.6 bar
- from -20 °C to +60 °C
- safe for use with food
- all standard diameters immediately available from stock

Immediately available from stock



DVK 6 pipe coupling
for suction conveying (light version)

DVK 6

- for outer pipe diameters from 33.7 to 110.0 mm
- length 100, 150 mm or longer
- vacuum-resistant to 0.6 bar – pressure-resistant to max. 6 bar
- standard: black natural rubber gasket, temperature-resistant from -20 °C to + 60 °C
- alternatively: white EPDM gasket, temperature-resistant from -30 °C to + 120 °C
- special gaskets on request: nitrile gasket / silicone / viton
- anodised version with stainless steel screws also available on request



Pipe coupling with
quick closure

DVK-HD[®] high pressure

Pressure conveying

- pressure-resistant up to max. 12 bar / vacuum-resistant up to 0.8 bar
- from -20 °C to +80 °C
- safe for use with food
- all standard diameters immediately available from stock



Stainless steel pipe coupling



available for outer pipe diameters
D = 70.0 to 168.3 mm or larger

safe connections

- no welding necessary – thus reliable and safe installation
- with stainless steel earthing strap to ensure electrical conductivity
- metal casing made of aluminium AlMgSi 0.5 F18
- massive aluminium clamping jaws with double-locking system
- circular version, thus very easy to install

Do you have any more questions?

phone +49 (0) 93 46 / 92 99-0

DVK-HD[®] high pressure pipe coupling for heavy-duty pressure conveying (heavy version)

Patented at the
German Patent Office, Munich
Patent No. 10 2008 031 485

DVK-HD[®] high pressure

- for outer pipe diameters from 60.3 to 168.3 mm
- length 100, 150 and 200 mm or longer
- pressure surge-resistant up to max. 12 bar / vacuum-resistant up to 0.8 bar
- standard: with white nitrile gasket, temperature-resistant from -20 °C to + 80 °C
- M12 screws with massive threaded bars



Pipe coupling with **traction relief**

Immediately available from stock



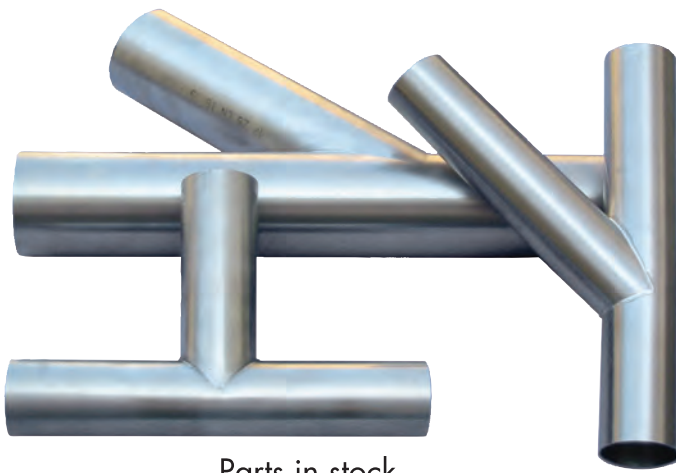
Pipe laser

Accurate production to customer's specifications

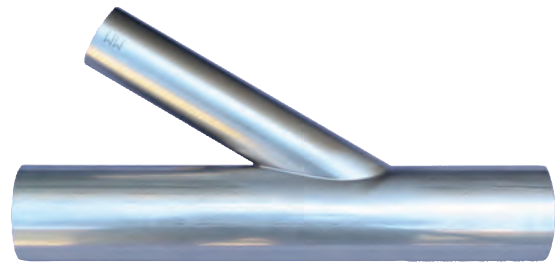
With the help of our pipe laser, any contours can be cut from the pipes.
(D = 20.0 mm - 159.0 mm)

In this way we can manufacture your product parts, including custom-made parts, at a reasonable price and with high fitting accuracy.

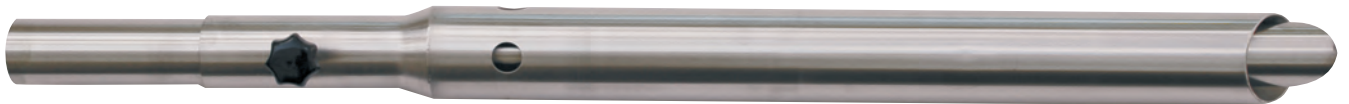




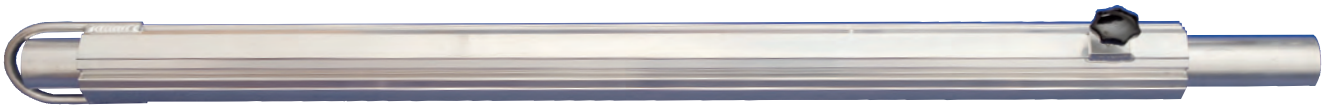
Parts in stock



Custom-made according to sketch



Stainless steel material no. AISI 304 / 1.4301



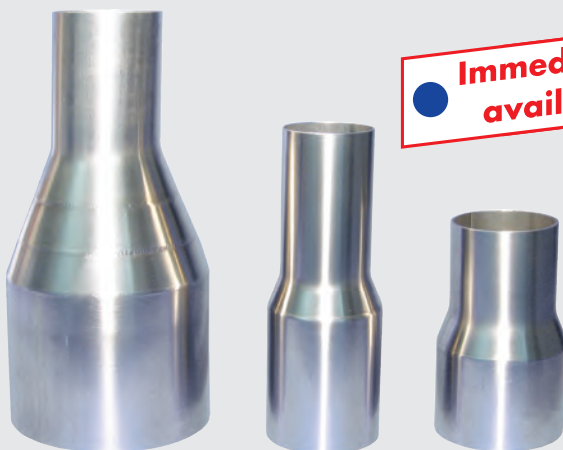
Aluminium AlMgSi 0,5 F22

Branch pieces Reducers

Stainless steel branch pipes / T-pieces

- 30°, 45°, 90° degrees (standard)
- **material no. AISI 304 / 1.4301 or aluminium**
- outer diameter: 38.0 to 154.0 mm

Custom-made products possible at short notice



Stainless steel reducers:

outer diameters: 38.0 to 168.3 mm

● **Immediately available from stock**

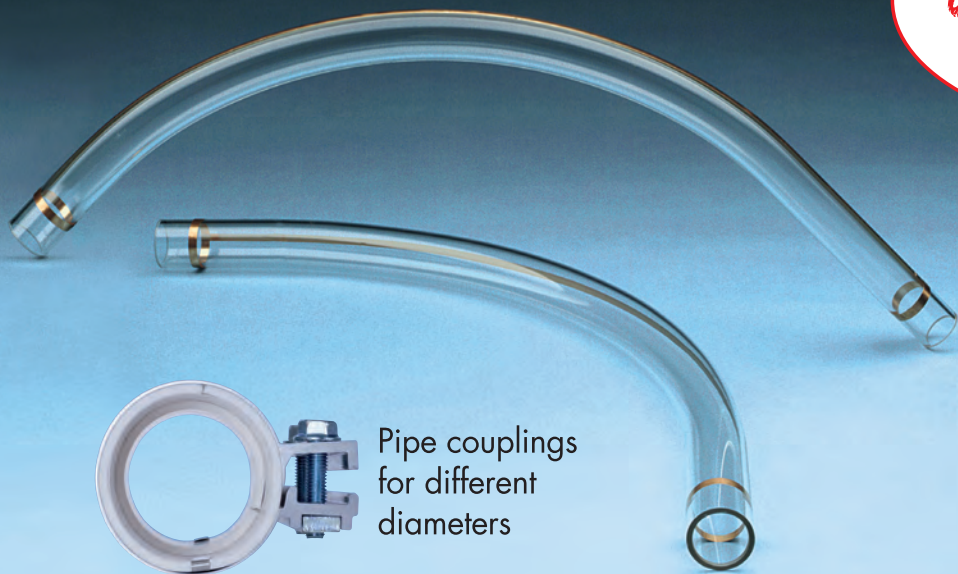
Suction pipes Suction lances

- stainless steel material no. AISI 304 / 1.4301 or aluminium AlMgSi 0,5 F22
- we can produce parts according to your drawings, sketches or samples
- available in different diameters
- special versions are available at short notice
- all common pipe diameters in stock – 40.0 / 50.0 and 60.3 mm



Highly wear-resistant pipe bends

Problems with wear and tear?
 Why not ask us -
We have the solution for you!



Pipe couplings for different diameters



New in the range of products

Glass pipe bends

For conveying abrasive media or for high flow rates, we can supply you with glass pipe bends made from 3.3 borosilicate glass with a copper grounding strip.

These have a service life at least 10 times longer than that of stainless steel pipe bends.

Stock list of glass pipe bends in 90° and 45°

For stainless steel pipe Ø	Diameter of glass pipe bends	Radius 250 mm	Radius 500 mm
40.0 mm	47.0 x 5.0	●	●
50.0 mm	56.0 x 5.0	●	●
60.3 mm	66.0 x 5.0	●	●

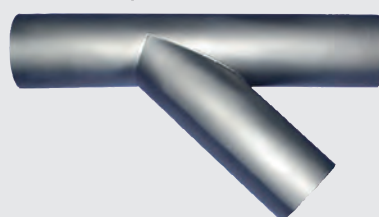
Immediately available from stock

HVA-Niro pipe bends

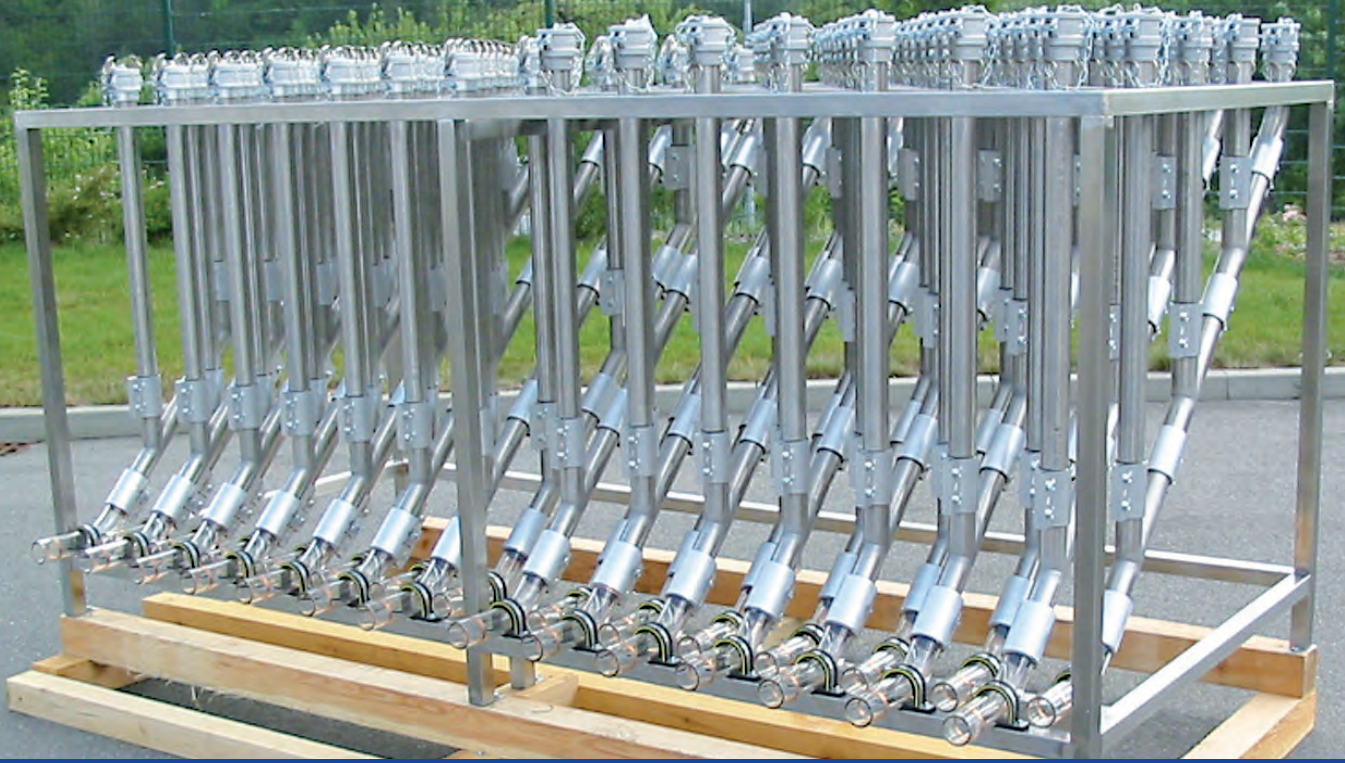
We can supply you with highly wear-resistant stainless steel pipe bends which have a service life 10 to 20 times longer than that of standard stainless steel pipe bends. This high degree of wear protection is required, for example, for conveying fibreglass-reinforced plastic granules or similarly abrasive media.

Complete coupling stations (see Page 11) are also available in highly wear-resistant versions.

- Diameters from 38.0 mm to 139.7 mm
- Wall thicknesses from 1.5 mm to 5.0 mm
- Radii of 250 / 500 / 800 / 1000 mm
- For highly abrasive products
- Easy installation
- No stepped pipe couplings and no flange connections required



Highly wear-resistant branch pipes are also available in all sizes, diameters and angle degrees.



Coupling stations

We can deliver coupling stations / material distributors – **at short notice**, manufactured to your individual specifications. CAD drawings will be designed for your approval.

- Units are mounted in a frame with outlets made of stainless steel tubes (e.g. 50.0 x 1.5 mm)
- Single units (bends, branch pipes, pipes) connected with DVK 6 vacuum couplings, exactly aligned and bolted to the frame construction using pipe clamps
- Camlock connections made of aluminium at the upper outlets
- Base frame made of 40 x 40 x 2.0 mm stainless steel square pipes with transverse struts made of stainless steel, polished grain size 240



With laser engraving (if desired)

