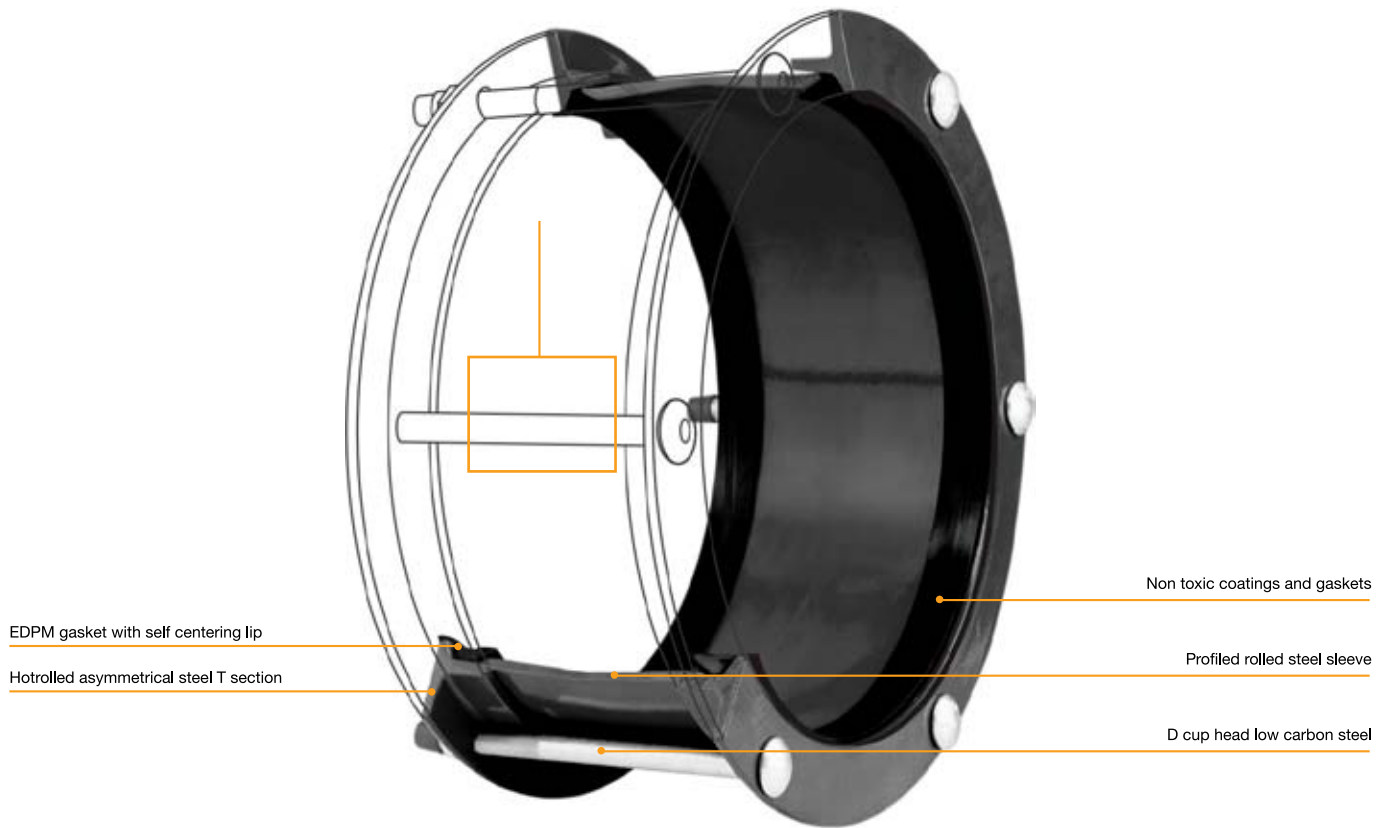


VAG Fittings





VAG VARIpplus-RC Ranger Coupling DN 50...600



Technical details

- Nominal pressure PN 10 / 16
- Nominal diameter DN 50...600
- Field of applications: Water, wastewater, gas
- Sleeve:
 - DN 50...300 rolled steel
 - DN 350...600 ductile iron EN-GJS-400-15 (GGG-40)
- End rings: Ductile iron EN-GJS-400-15 (GGG-40)
- Gaskets: EPDM
 - Alternative: NBR and other sealing materials
- Fasteners: 4.8 electro galvanized
 - Alternative: 316 stainless steel
- Coating: Fusion Bonded Epoxy (WRAS Approved)

Product features

- Ranger Couplings are designed to join pipes of various outside diameters with the same or different nominal bore.
- Because of the wide range tolerance on OD (up to 23 mm) a single Ranger Coupling can connect steel, ductile iron, UPVC, cast iron, asbestos cement and other rigid pipe materials. This eliminates on site guesswork and stock range holdings are optimized.
- The ability of Ranger® Couplings to join dissimilar pipe materials is a bonus feature in both repair or permanent situations.
- Molded, circumferentially ribbed or specially profiled gaskets provide a smooth installation by minimizing contact friction.
- Ranger Coupling Gaskets are designed to provide a leak tight seal across the OD range per nominal size and still allow thermal expansion and contraction of the pipe up to 10 mm, facilitated through gasket deformation.

VAG VARIp/plus-RFA Ranger Flange Adaptor DN 50...600



Technical details

- Nominal pressure PN 10 / 16
- Nominal diameter DN 50...600
- Field of applications: Water, wastewater, gas
- Sleeve: Ductile iron EN-GJS-400-15 (GGG-40)
- End ring: Ductile iron EN-GJS-400-15 (GGG-40)
- Flange: Ductile iron EN-GJS-400-15 (GGG-40)
- Gasket: EPDM (WRAS Approved)
 - Alternative: NBR and other sealing materials
- Fasteners: 4.8 electro galvanized
 - Alternative: 316 stainless steel
- Coating: Fusion Bonded Epoxy (WRAS Approved)
- Drilling: BS4504, BSEN1092, SANS1123, BS10, ANSI B 16.5 150

Product features

- Ranger® Flange Adaptors are designed to join pipes of various outside diameters with flanged equipment of various drilling tables.
- Because of the wide range tolerance on OD a single Ranger® Flange Adaptor can connect steel, ductile iron, UPVC, cast iron, asbestos cement and other rigid pipe materials to the mating flange. This eliminates on site guesswork and stock range holdings are optimized.
- Molded, circumferentially ribbed or specially profiled gaskets, generally in EPDM or NBR materials, provide for smooth installation by minimising contact friction.
- Ranger® Flange Adaptor gaskets are designed to provide a leak tight seal across the OD range per nominal size and still allow thermal expansion and contraction of the pipe up to 5 mm, facilitated through gasket deformation.



VAG VARiplus-DJ Dismantling Joint

DN 50...2000



Technical details

- Nominal pressure PN 10 / 16
- Nominal diameter DN 50...2000
- Field of application: Water, waste water, gas
- Sleeve:
 - DN 50...200 ductile iron EN-GJS-400-15 (GGG-40)
 - DN 250...2000 rolled steel
- End ring:
 - DN 50...300 ductile iron EN-GJS-400-15 (GGG-40)
 - DN 350...2000 rolled steel
- Flange:
 - DN 50...80, DN 125, DN 250...2000 steel
 - DN 100, DN 150...200 ductile iron
- Spigot: Steel
- Gasket: EPDM (WRAS Approved)
 - Alternative: NBR and other sealing materials
- Fastener studs: 304 stainless steel
 - Alternative: 316 stainless steel
- Fastener tie rods: 4.8 electro galvanized
 - Alternative: 316 stainless steel
- Coating: Fusion Bonded Epoxy (WRAS Approved)
- Drilling: BS4504, BSEN1092, SANS1123, BS10, ANSI B 16.5 150

Product features

- Manufactured to AWWA C219 under quality management systems accredited to ISO 9001:2000, the dismantling joint assembly is a double flanged composite fitting featuring a telescopic action between a flanged spigot and a flange adaptor.
- Dismantling joints provide a simple method for the installation and removal of flanged valves, pumps, flow meters, flanged pipes and pipe fittings. Tie rods are provided for final anchoring and location and these also double as mating flange jointing bolts, reducing the number of these required.
- Thickness of flanges will not necessarily be the same as the mating flange. Flanges and flange adaptors will not be subject to full end or side thrust, most of which is absorbed by the flexibility in the rubber gaskets.
- Installation is extremely simple and is generally done with the flange adaptor end connected to the valve or other appurtenance. In cases where a full faced flange is required, for example on wafer butterfly valves, the joint is simply turned round to use the spigot flange instead.

VAG BAIO®*plus* System

DN 80...200



Technical details

- Nominal diameter: DN 80...2000
- Field of application: Water
- Standard version: EN-GJS-400-15 (GGG-40)
- The VAG BAIO®*plus* System is a universal spigot socket installation system which connects valves, pipes and fittings in the diameter range of DN 80...300 without any flanges and screws, neither at the connection nor at the valve.
- The VAG BAIO®*plus* System is a pull-out proof system which can be dismantled at any time and fits to all conventional used pipe materials like cast iron, PVC, polyethylene (PE) or steel.

Product features

- The gate valve and its connections to the pipeline are completely boltless.
- For a BAIO®*plus* junction with three gate valves, only 10 parts are needed as compared to the 160 parts needed for a conventional flange connection. This reduces assembly time and inventories.
- The combination gate valve and divisible pipe coupling with externally lockable centre part and function sockets on both sides allow easy assembly and disassembly of the BAIO®*plus* System.
- The valve and the connection have no bolts, which makes them extremely resistant to corrosion.
- Flexible connection because the $\pm 3^\circ$ inclination in each connection equalizes earth movement and prevents pipe breaks due to cavities.
- Due to the internal bayonet connection and /or the external bayonet connection, a concrete counter bearing is no longer required.
- Ideal for repair work. The BAIO®*plus*-part for the replacement of gate valves or cross junctions of gate valves in cast pipe systems.
- A complete range of fittings suitable for any kind of pipeline network.



VAG BAIO[®]plus Fittings



VAG BAIO[®]B-Fitting

With socket connection in the branch, with socket connection on one side and spigot end connection on the other in the passage



VAG BAIO[®]DVS-Fitting

With socket connection on both sides



VAG BAIO[®]EMS-Fitting

With socket connection in the branch; with socket connection on one side and spigot-end connection on the other in the passage



VAG BAIO[®]EN-Fitting

With lateral socket connection and upper flange connection to EN 1092-2



VAG BAIO[®]EU-Fitting

With socket connection on one side and flange connection to EN 1092-2 on the other



VAG BAIO[®]F-Fitting

With spigot-end connection on one side and flange connection to EN 1092-2 on the other



VAG BAIO[®]MMB-Fitting

With three socket connections



VAG BAIO[®]MMK-Fitting

With socket connection on both sides



VAG BAIO[®]MMN-Fitting

With lateral socket connection and upper socket connection



VAG BAIO[®]MMQ-Fitting

With socket connection on both sides and 90° elbow



VAG BAIO[®]MSK-Fitting

With lateral socket connection and upper socket connection



VAG BAIO[®]MTT-Fitting

With four socket connections (cross fitting)



VAG BAIO® P-Fitting
With spigot-end connection for the connection of VAG BAIO®*plus* system components



VAG BAIO® R-Fitting
With socket connection on one side and spigot-end connection on the other



VAG BAIO® RU-Fitting
With socket connection on one side and spigot-end connection on the other



VAG BAIO® S-Fitting
With spigot-end connection on both sides



VAG BAIO® SM-Fitting
With socket connection on one side and spigot-end connection on the other



VAG BAIO® U-Fitting
For the connection with spigot ends of pipes



VAG BAIO® X-Fitting
With socket connection



VAG BAIO® Anti-Twist Protection



VAG BAIO® stop Tension Lock
Two-part design consisting of tension ring and clamping ring



1. TYTON seal
2. GSK seal



VAG BAIO® Protection Sleeve



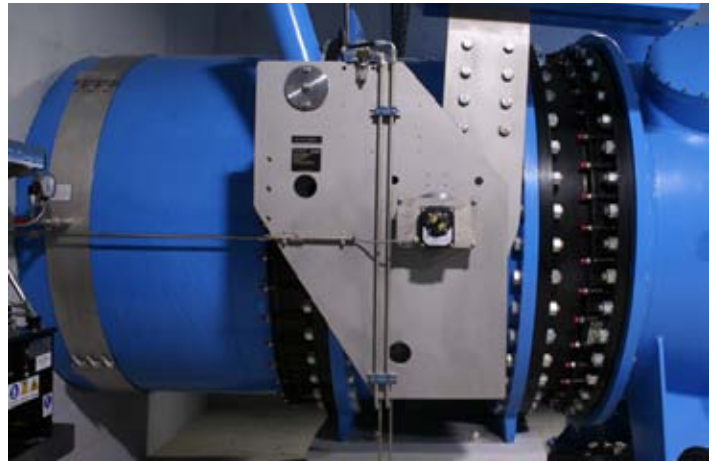
VAG BAIO® PEa Welding End
Welding end for PE-HD pipes



Reference projects

Maen hydro-electric power plant
Valtournenche, Italy

1VAG EKN® Butterfly Valve DN 1800 with
assembled VAG HYsec Hydraulic
Brake and Lift Unit,
VAG VARip/us-DFA
Dedicated Flange Adapter DN 1800,
VARip/us-DJDismantling Joint DN 1800



Refurbishment of the water supply
network in Ždár, Slovak Republic

VAG BAIO® BETA® 200 Gate Valves



General refurbishment of the water
supply network of the city of Rötzt,
Germany

VAG SUPRA Underground Hydrants
VAG BAIO® BETA® 200 Gate Valves
VAG BAIO® Fittings



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For detailed information about nominal diameters, nominal pressures and types,
the technical documentation KAT-A is relevant. • Pictures are non-binding