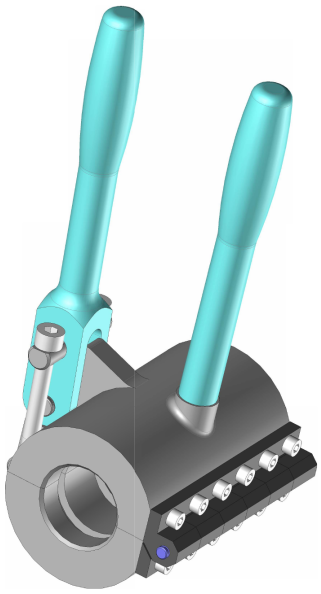
Carbon Steel Split Duct Coupler

Temporary duct connection for fiber optic cable blowing



The hinged split body connects compatible duct sections during cable blowing and can be opened for removal after the system has been fully depressurised. Normal assembly and disassembly use a hand-operated closing mechanism; no spanner is required.

12 bar maximum

2 custom 3D-printed gaskets
Supplied with each coupler

Body material	Carbon steel
Maximum operating pressure	12 bar (1.2 MPa), current carbon steel version
Connection type	Hinged split-opening body with a closing mechanism
Sealing	Gasket-sealed, airtight joint by design when correctly installed
Standard nominal duct sizes	20 / 32 / 40 / 50 mm
Custom dimensions	Available on request; confirm the selected configuration
Supplied gaskets	Two custom 3D-printed gaskets per coupler
Repeated use	Repeated assembly/disassembly; no specified reuse cycle rating
Order code - 20 mm	ACS-012-20
Order code - 32 mm	ACS-012-32
Order code - 40 mm	ACS-012-40
Order code - 50 mm	ACS-012-50

State the actual duct outside diameter, inside diameter and profile when ordering. Nominal size alone does not confirm the gasket and duct fit.

Sealing performance

Correctly installed with matching, undamaged gaskets, the coupler is designed to provide an airtight duct joint at operating pressures up to 12 bar. Sealing performance depends on gasket condition, clean sealing surfaces, duct alignment and correct closure. No quantified leakage-rate rating is specified.

Repeated use

Designed for repeated assembly and disassembly. The carbon steel body provides mechanical durability, while sealing performance depends on the condition of the gaskets and correct installation. No specific reuse cycle rating has been established.

Assembly and removal

1. Isolate the air supply and fully depressurise the installation before opening the coupler.

2. Check the selected duct dimensions, body, hinge, closing mechanism and both gaskets. Clean the duct contact and sealing surfaces.

3. Position and align the duct ends and matching gaskets. Close and secure the split body, then check the assembled joint before cable blowing.

4. Keep operating pressure within the lowest rating of the coupler, ducts, seals and connected equipment. Fully depressurise before opening and removing the coupler.

Inspection and maintenance

Inspect before each use. Replace worn, damaged or deformed gaskets and do not use damaged mechanical parts. Remove dirt and debris from the sealing surfaces. Keep the steel body clean and dry after use and inspect it for corrosion and mechanical damage.

Version and selection

This datasheet applies to the current carbon steel version. It does not assign a 12 bar rating to earlier aluminium products or other legacy coupling designs. The supplied illustrations are retained product views; use the written material specification and the selected duct configuration when ordering.