



**HC.AIR**  
CONNECTORS FOR  
CHARGE AIR  
SYSTEMS

**HEN****N**

CONNECTING COMPETENCE

## HC.AIR

# CONNECTORS FOR CHARGE AIR SYSTEMS

### FIELDS OF APPLICATION

- Intercoolers, turbo chargers, throttle bodies
- HC.AIR connector crimped to hard and soft plastic, rubber hose or metal tube

### MATERIALS

- Sleeve connector: 1.4301 (AISI 304)
- Gain strip: 1.4016 (AISI 430)
- Spring clip: 1.4310 (AISI 301)
- Spring clip retainer: 1.4310 (AISI 301)
- Sealing element: AEM, FKM

### TEMPERATURE RANGE

- AEM: -40 – 160°C (180°C, 3h)
- FKM: -20 – 240°C (245°C, 3h)

### PRESSURE RANGE

0.6 – 6.5 bar absolute

### PRODUCT BENEFITS

- 4 point fixing
- Protection against disassembly
- Outer rotation lock
- Protection against single sided engagement
- Low assembly and disassembly forces
- 100 % traceability with data matrix code
- Short installation length
- Direct hose connection in the connector
- Weight saving
- Low system and process costs
- Compatible with VDA standard
- Easy disconnecting

### OPTIONS

- Sealing element for hard plastic application
- Sealing element for metal application
- Inner rotation lock

### GENERAL INFORMATION

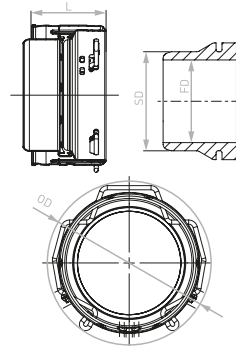
The HENN Connector (HC.AIR) is a charge air connector that conforms to the "VDA standard" for charge air system spigots. Since 2018 the HC.AIR is in serial production as a further development of the HC+. Their robustness, low assembly forces and high quality are increasingly replacing conventional clamped connections. The HENN Connector is manufactured as one stainless steel part, which provides stability and excellent corrosion properties. 100% automated manufacturing process for full assembly and controlled manufacturing.

The HC.AIR connector can be delivered in two versions of sealing element material, AEM and FKM. To ensure the best sealing, HENN uses a double lip seal which helps to ensure low assembly forces of the connector and to catch dust particles.

### DIAMETERS / SPECIFICATIONS

	Flow diameter Ø FD	Sealing diameter Ø SD	Outer diameter Ø OD	Installation length L
HC.AIR 35	35	40	65.3	33.5
HC.AIR 38	38	44.3	69.8	33.7
HC.AIR 40	40	46	71.7	33.8
HC.AIR 45	45	51	76.8	34.7
HC.AIR 50	50	56	82	35.2
HC.AIR 55	55	61	87.2	36.2
HC.AIR 60	60	67	93.4	36.7
HC.AIR 65	65	72	98.6	37.2
HC.AIR 70	70	77	103.8	37.4
HC.AIR 75	75	82	109	37.6
HC.AIR 80	80	87	114.2	37.8

Data in mm.



Spring clip  
Sleeve connector  
Sealing element  
Spring clip retainer



### THE CRIMPING METHOD

All good connections are judged by their most intricate points. The fastening of a connector with a screw or pressure clamp onto the hose is a compromise. This is why HENN developed its own crimping method, which not only crimps the hose together permanently with the connector, but also considers all material properties in the crimping parameters. The connection, crimping system and parameter come from one source; nothing could be more secure and more affordable. No additional fastening elements are required.