

FLUOFLEX DUCT_{FF-1}

100% PTFE Flexible Hook-up Duct



Product Features

A Custom Solution **With Superior Sealing strength,** **durability, exceptional chemical** **and environmental resistance,** **and globally certified reliability**

Exceptional Durability & Sealing

- Stable sealing with 6:1 compression ratio
- Constructed with 100% High Toughness PTFE CrossFilm for excellent flex life and corrosion resistance
- Maintains non-porous structure for enhanced sealing
- Lower permeability than coated products

Resistance to Extreme Conditions

- Suitable for both wet and dry applications, regardless of chemical type
- Provides optimal performance under harsh C.I.P. chemicals and extreme temperatures (-254°C to 316°C)
- Eco-friendly and non-corrosive materials ensure safety and sustainability

Stability in Harsh Environments

- No deformation under UV exposure
- Resists mold growth





Global Certifications & Safety Reliability

- Certified for Food Contact:
Complies with FDA, 3-A, and EC standards
- Meets Global Safety Standards:
FM4910 Compliant, conforms to ASTM E84,
UBC 8-1, and UL 723
- Constructed Only with PTFE and Metal:
Ideal for applications requiring strict fire-safety ratings

Custom Manufacturing Options

- Color and thickness customization available (MOQ applies)
- Provides optimized solutions tailored to diverse industries and environmental conditions

Material Composition

Built with 100% PTFE laminated film and stainless-steel clips, engineered for extreme durability and deformation resistance under harsh conditions.

Duct Body - PTFE Laminated Film

- Manufactured using a unique cross-laminated structure, providing excellent 360° tear strength and superior durability.
- Completely pinhole-free and high toughness.
- Made from 100% pure PTFE resin, chemically inert and suitable for use across -254°C to 316°C depending on thickness.
- Unaffected by UV exposure, humidity, or chemical contact - corrosion-free and non-flammable.

Spiral Clip

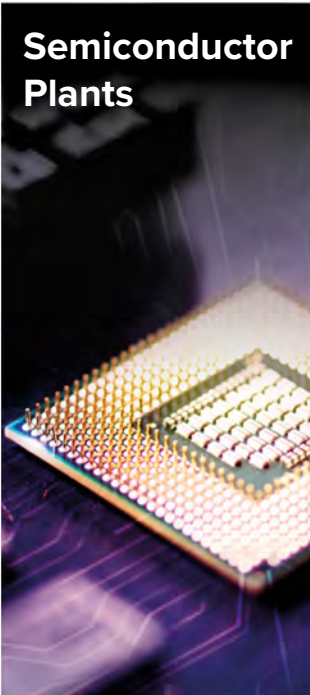
- Stainless Steel SUS304 Metal Strip
: W 6mm x T 0.5mm ~ 0.8mm
- Stainless Steel SUS 304 Inner Core Wire
: Ø 0.8mm ~ 1.0mm



Application Fields

From semiconductors and cleanrooms to chemical and food processing plants, a perfectly optimized solution for chemical, high-temperature, and steam environments

Semiconductor Plants



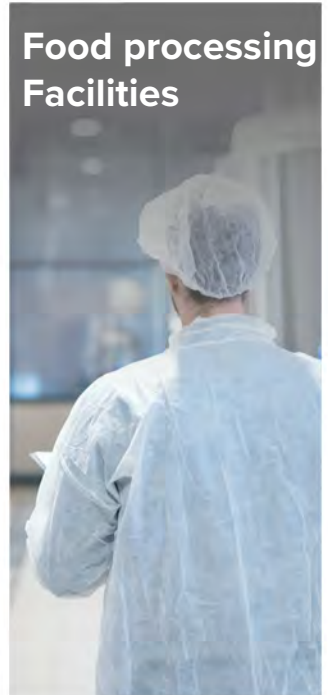
Cleanrooms



Chemical Factories



Food processing Facilities



Fume Extraction Systems



High-temperature Zones



Steam Control



Contamination Removal Areas



Product Specifications

Specifications designed for compatibility across various industrial environments

Duct Unit

Item	Duct Code	Inner Diameter Inch ± 0.5mm	Length m	Film Thickness mm	Clip Material	Core Wire SUS304	Film Color
	G10-50	50mm (2")	5m	0.25mm	SUS 304	0.8mm	Grey
	G10-63	63mm (2.5")					
	G10-76	76mm (3")					
	G10-101	101mm (4")					
	G10-127	127mm (5")					
	G10-152	152mm (6")					
	G10-200	200mm (8")					
	G10-216	216mm (8.5")					
	B10-50	50mm (2")	5m	0.25mm	SUS 304	0.8mm	Brown
	B10-63	63mm (2.5")					
	B10-76	76mm (3")					
	B10-101	101mm (4")					
	B10-114	114mm (4.5")					
	B10-120	120mm (4.72")					
	B10-127	127mm (4.72")					
	B10-152	152mm (6")					
	B10-200	200mm (8")					
	B10-216	216mm (8.5")					

Clamp Unit *Clamps (bands) are sold separately – please refer to the price list.

Item	Clamp Code	Matching Duct	Clamp Specification (mm)	Material	Features
	BC 20-A	50mm (2")	W 12 x L 210	SUS 304	PTFE seal attached inside the clamp to prevent slipping and enhance tightness
	BC 25-A	63mm (2.5")	W 12 x L 250		
	BC 30-A	76mm (3")	W 12 x L 290		
	BC 40-A	101mm (4")	W 12 x L 370		
	BC 50-A	127mm (5")	W 12 x L 450		
	BC 60-A	152mm (6")	W 12 x L 530		
	BC 80-A	200mm (8")	W 12 x L 690		
	BC 85-A	216mm (8.5")	W 12 x L 730		

Duct Adapter

Available as single units or integrated assemblies: Duct + PTFE Extension Seal + Adapter + Band Clamp

Item	Tape Code	SPEC (mm)	Material	Features
	AD3-76 (3" Duct Adapter)	ø110mmX107mm	SUS 304	Socket-type adapter used to connect ducts to facility pipelines. The inner groove is precisely machined to match the outer coil pitch of the duct, allowing a secure screw-in fit. The bottom flange is fixed to the pipeline flange using a clamp of the same specification
	AD4-101 (4" Duct Adapter)	ø130mmX107mm		
	AD5-127 (5" Duct Adapter)	ø155mmX107mm		
	AD6-152 (6" Duct Adapter)	ø180mmX107mm		
	AD8-200 (8" Duct Adapter)	ø240mmX107mm		



PS5-127 (PTFE Extension Seal)	- Thickness: 4~6mm - Width: 16mm - Length: 700mm	PTFE	Flexible PTFE-based sealing strip with double-sided adhesive on one side for attachment to duct films.
PS6-152 (PTFE Extension Seal)			Ensures maximum airtightness between the duct and adapter connection

Joint Pipe Unit

Pipe Code	Inner Diameter	SPEC (mm)	Material	Features
 Metal Clip Width: 40mm Height: 6~8mm Thickness: 0.5mm				
JP-D50	50mm (2")	ø50.8mm±1mm x H150mm	SUS 304	Used to connect Fluoflex Ducts
JP-D75	76mm (3")	ø76.3mm±1mm x H150mm		
JP-D100	101mm (4")	ø101.4mm±1mm x H250mm		
JP-D125	127mm (5")	ø127mm±1mm x H250mm		
JP-D150	152mm (6")	ø152mm±1mm x H250mm		
JP-D200	200mm (8")	ø200mm±1mm x H250mm		

Assembled Unit

Integrated assemblies: Duct + PTFE Extension Seal + Adapter + Band Clamp

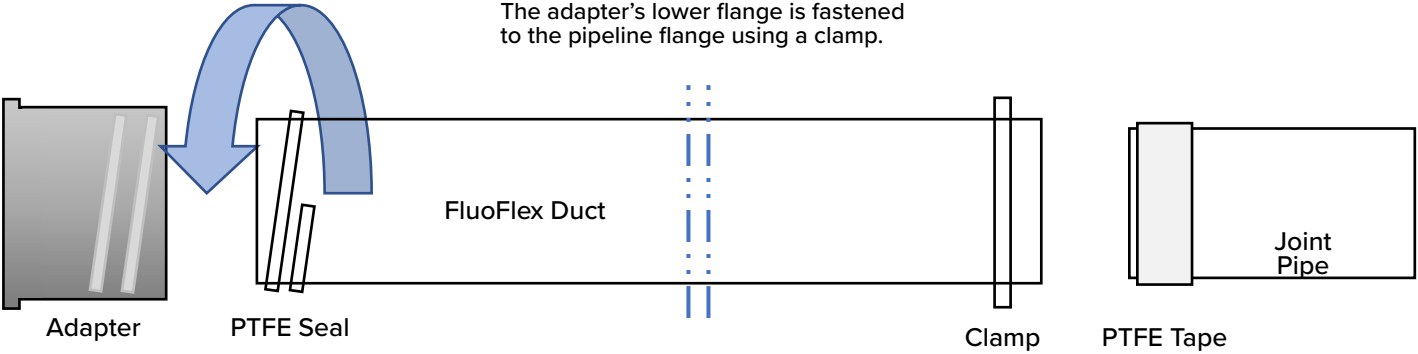
Item	Tape Code	Flange Connection	Duct	Equipment Pipe Connection	Material	Features
3"	B10-76-AD3-76	ø110	ø76	ø76	SUS304 PTFE	Adapter + Duct Assembly
4"	B10-101-AD4-101	ø130	ø101	ø101		
5"	B10-127-AD5-127	ø155	ø127	ø101		
6"	B10-152-AD5-152	ø180	ø152	ø152		
8"	B10-200-AD8-200	ø240	ø200	ø200		



The duct is wrapped with a PTFE seal and screwed into the adapter, forming a complete integrated assembly.

Prevents duct separation and air infiltration under negative pressure conditions inside the duct, minimizing pressure loss.

The adapter's lower flange is fastened to the pipeline flange using a clamp.



Fluoropolymer Tape Unit

Item	Tape Code	SPEC (mm)	Material	Features
	PT35 - 10,000	W35mm X L10,000mm	PTFE	Applied to the outer surface of the pipeline to reduce the gap between the duct and pipe, ensuring tighter sealing when clamped

Custom Manufacturing

FF-1-In Additional PTFE Film
Laminated Inside the Duct
for Additional Protection



FF-1-Out Additional PTFE Film
Laminated Outside the
Duct to protect the SUS coil



FF-2 Encapsulated metal coil
and smooth inner wall



Colors

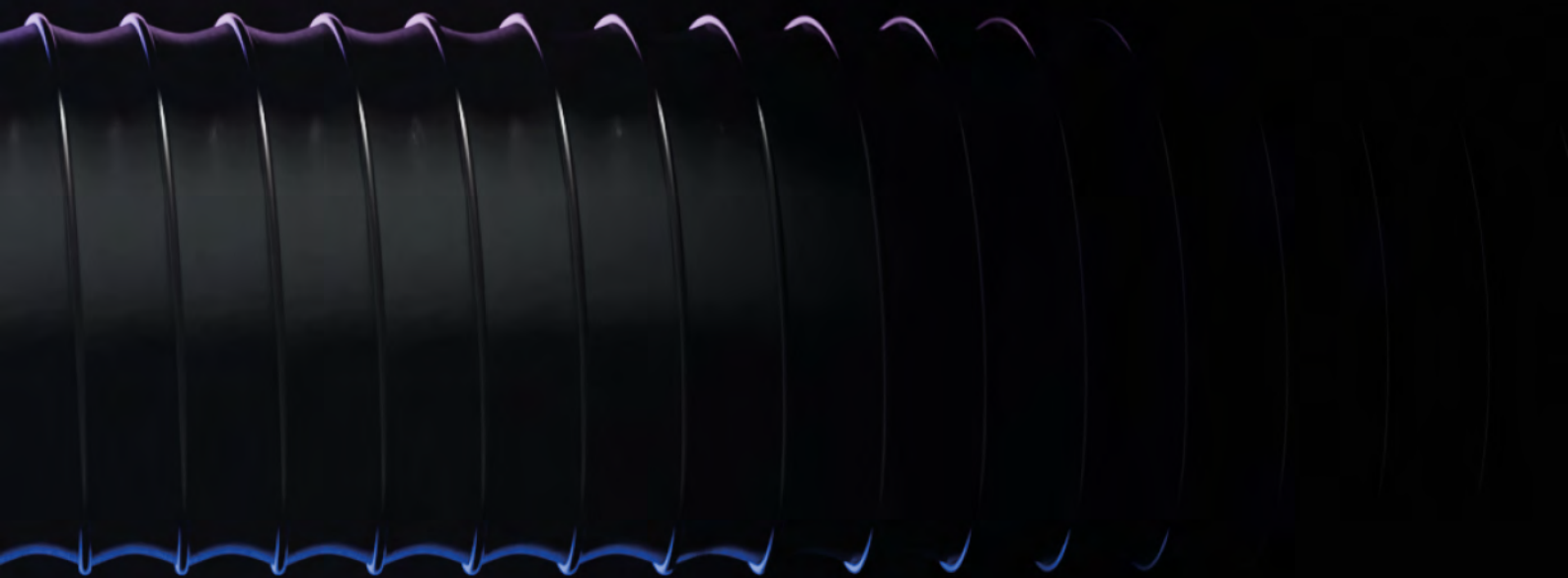


Rectangle



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Manufacturer & Distributor: GCC Co., Ltd.

97-3, Songmal-gil, Yanggam-myeon, Hwaseong-si,
Gyeonggi-do, Republic of Korea

TEL: 031-353-5575 FAX: 031-353-5088

www.gcckorea.com