

# Cyclone Separators GD-CS 0050STD – 1100STD

The cyclone separator for the removal of solid and liquid particles and aerosols from compressed air and gases.

## Product description:

The cyclone separators are designed for the processing of compressed air or other gases in industrial applications.

The units offer a high degree of separation over a large flow range with small pressure losses. This is ensured by an innovative spin insert and a flow-optimised design of the housing.

This product series offers 7 different housings with a flow range between 50 and 1100 m<sup>3</sup>/h (related to 7 bar (g)).

The cyclone separator is conform to the requirements of the European directive 97/23/EG for pressure vessels.



## Function description

Through the innovative insert in the cyclone head the inlet air flow is moved into a fast rotating drive, which centrifuges larger particles due to their mass inertia against the inner housing wall.

Through friction with the housing the particles lose part of their kinetic energy and slide down with reduced speed towards housing ground.

The collected condensate on the housing ground is removed via condensate drain, while the purified compressed air is made available to the system.

Features:	Benefits:
Flow-optimised design of the housing	Low pressure losses, thereby saving energy costs
Innovative spin insert	High retention rates over a large volume flow range
Intelligent overall concept	Series range, retention rates and available options perfectly meet requirements of industrial air purification. Adequate to the industrial filter series DF
Bayonet fixing between housing head and housing bowl	Easy to use construction, simple inspection and cleaning of the housing
Housing cannot be opened under pressure due to bayonet lock	High safety during operation
Housings immersion-laquererd on the inside and outside surface	Long-term corrosion protection, also against aggressive condensates

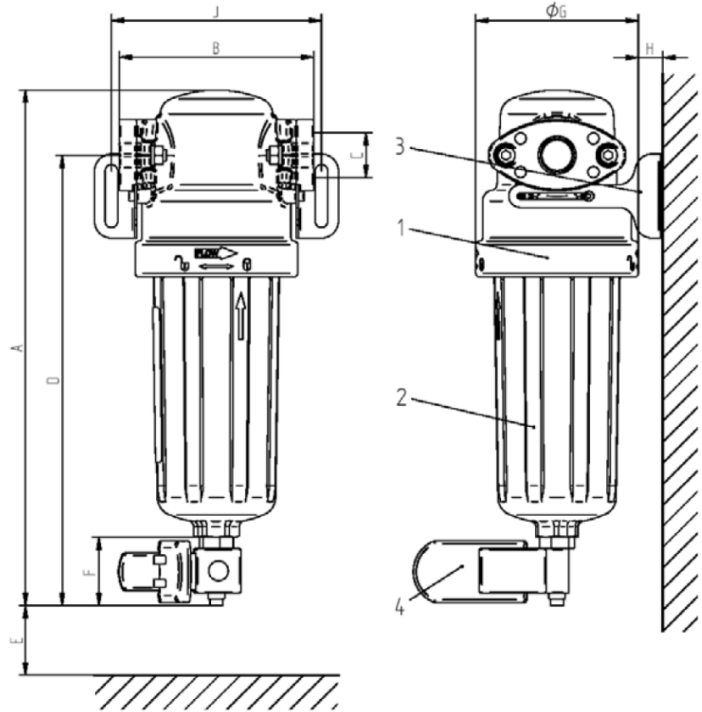
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# Technical Data

Pos.	Piece	Description
1	1	Housing head
2	1	Housing bowl
3	2	Wall bracket (option)
Materials		
Filter housing	Aluminium die cast	
Float drain	Brass	
Sealings	Viton / NBR	

Max. operating pressure	16 bar
Test pressure	22.9 bar
Perm. operating temperature	+1°C / +65°C



Size	Flow rate* m <sup>3</sup> /h	Volume (l)	Weight (kg)	A mm	B mm	C	D mm	E mm	F mm	Ø G mm	H min./ max. mm	I mm
0050	50	0,28	0,78	243,5	76	G 3/8	211,0	50	52	66	16,0	84
0120	120	0,56	1,12	286,0	103	G 1/2	246,5	50	52	85	14,5 / 45,0	107
0210	210	1,47	2,18	371,5	139	G 3/4	325,0	60	52	116	15,5 / 66,0	150
0320	320	1,47	2,18	371,5	139	G 1	325,0	60	52	116	15,5 / 66,0	150
0450	450	5,42	5,32	575,5	190	G 1 1/2	512,5	70	52	160	25,0 / 95,0	190
0750	750	5,42	5,32	575,5	190	G 2	512,5	70	52	160	25,0 / 95,0	190
1100	1100	5,42	5,32	575,5	190	G 2	512,5	70	52	160	25,0 / 95,0	190

\* Nominal flow at 7 bar g, m<sup>3</sup>/h related to 1 bar abs. and 20°C

For additional information please contact Gardner Denver or your local representative.

## Gardner Denver

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