

Gas Filter Housings Nowata GD and GZ Series

Forward Flow, Dry Gas Filters for Particulate Removal
GD Series (Vertical), and GZ series (Horizontal) Configurations

1. Introduction

The GD and GZ series, forward flow, dry gas filter housings remove particulate contamination from dry gas including dust, dirt, sand and pipe scale. These filter housings are designed to filter fine particles from gases without excessive pressure differential build-up. Housings are available in vertical (GD series) or horizontal (GZ series) configurations and provide high flow rates at a low differential pressures.

The standard cartridges used with these dry gas housings are the Nowata NFG series cartridge elements with 1 or 0.5 nominal micron rating. NFG series cartridges are available in 4 lengths, 12", 24", 36" and 72", and can operate effectively in high temperatures up to 275 °F.

Both the GD series and the GZ series dry gas filter housings are suitable for removing dirt particles from gas streams in refineries, chemical plants, pipeline stations, gasoline plants and other gas processing applications.

All G series gas housings can be customized to meet customer specifications including adding instrumentation for monitoring of gas flow and pressure ratings.

Features

- All units built to ASME code. Optional U or UM code stamp is available
- 275 psi at 140 °F and 1/8" corrosion allowance
- Higher psi vessels are available upon request
- Housings can be designed to customer specifications
- Vertical and horizontal vessel configurations available
- High flow rate at low differential pressure
- Uses Nowata NFG12, NFG24, NFG36 or NFG72 cartridges, (3-5/16 inches outside diameter x 2 inches inside diameter)
- Also available are NFG cartridges with 4-1/2 inch outside diameter x 3 inches inside diameter
- Single stage filtration
- Can be customized with instrumentation for monitoring flow and pressure ratings



2. Dimensional Information

Model Number	Cartridge Qty & Type	A	B	C	D	E	F	G	H	Inlet/Outlet Size
GDAC1C27F2CAN	(1) NFG12	26	15-3/4	4	7-3/8	9-1/8	9-1/4	6-5/8	14	2
GDAC1C27F2CCN	(1) NFG24	41	15-3/4	4	7-3/8	9-1/8	9-1/4	6-5/8	26	2
GDAC1C27F2CDN	(1) NFG36	50	15-3/4	4	7-3/8	9-1/8	9-1/4	6-5/8	38	2
GDAC2C27F3CDN	(2) NFG36	50	15-3/4	4	7-3/8	11-1/8	10-1/4	8-5/8	38	3
GDAC3C27F3CDN	(3) NFG36	50	15-3/4	4	7-3/8	13-1/4	11-3/8	10-3/4	38	3

Dimensions shown in inches unless otherwise noted. Dimensions are approximate values and not intended for piping specifications. Due to our continuing program of product improvement, specifications are for reference only and subject to change without notice.

NOTES:

G = Outside diameter of housing

H = Required clearance for cartridge removal

Inlet/Outlet size = Raised face 150# flange (inches)

K = Vent 1/4 inch FNPT

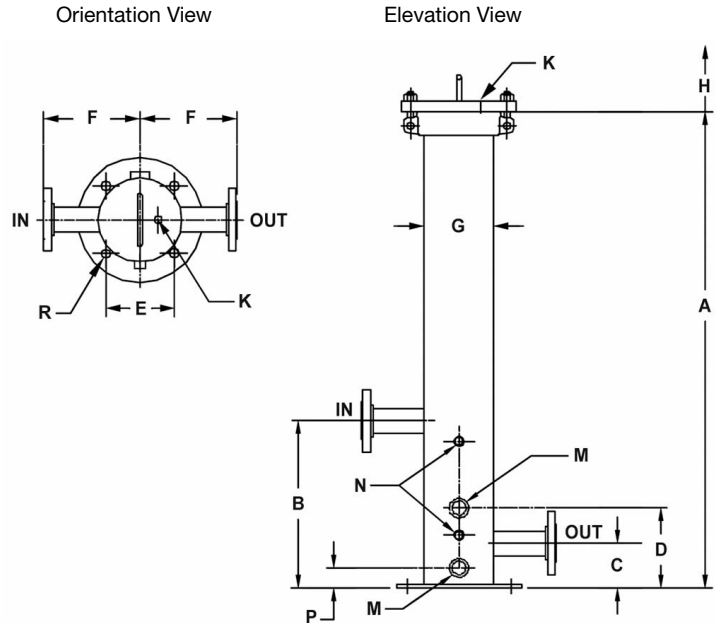
M = Drain 1 inch FNPT (far side)

N = Differential pressure gauge 1/4 inch FNPT

P = 1-5/8 inches

R = 4 each bolt holes, 7/8" diameter on E bolt center

Housings can be customized to meet customer specification. Contact factory for details.



3. Typical Model Number

G	D	A	C	1	C	27	F	2	C	A	N
Housing Series	Process Configuration	Closure Style*	Housing Material*	Qty of Elements	Code	Pressure Rating*	Inlet/Outlet Style*	Inlet/Outlet Size*	Internal Material	Internal Cart. Size*	O-Ring Material*
Gas Housings	D = Dry Gas Vertical Z = Dry Gas Horizontal	A = Flat top CS B = Domed bar flange top D = RFWN flange top	C = Carbon steel A = 304SS wetted U = 316SS wetted	Number of cartridge elements	C = ASME U stamp U = ASME UM stamp N = Non-code	15 = 150 psi 27 = 275 psi 30 = 300 psi 144 = 1440 psi	F = RFSO L = RFLWN N = FNPT W = RFWN	2 = 2" 3 = 3" 4 = 4" 6 = 6" 10 = 10" 12 = 12" more sizes avail.	A = 304SS C = CS U = 316SS	<i>example</i> 3.5" O.D. by length A = 12" C = 24" D = 36" E = 72" more sizes avail.	N = Buna-N E = EPDM V = Viton S = TES T = TEV

* = More options available

MAHLE Industrial Filtration USA, Inc.

428 N. Elm, PO. Box 678, Nowata, OK 74048 USA

Phone +1 (800) 259-2204, Fax +1 (918) 273-2101

industrialfiltration@us.mahle.com, www.mahle-industrialfiltration.com 10/2011