Gas Filter, Model 3

GF3

Compact inline gas filter for applications up to 400 bar

Features:

- Filtration Ratings from 0.1 to 500 μm
- Filter material: Chemicron® metal fiber fleece, wire mesh or Processmicron® glass fiber fleece
- Available as coalescence and particulate filter

Advantages:

- Best filtrate quality
- High defined separation efficiency and contamination retention capacity
- Excellent differential pressure stability
- Extremely robust stainless steel filter element technology
- High pressure stability
- Highest resistance through non-utilisation of adhesives or grouting
- Maintenance-friendly filter service without line dismantling
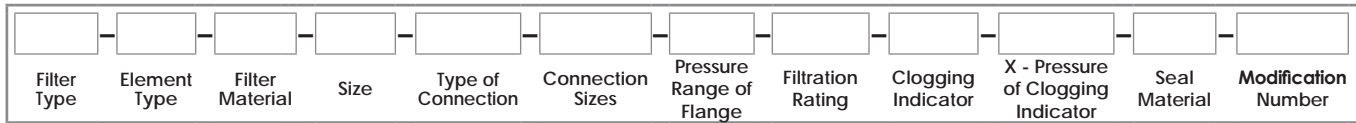- No contamination of the clean side during filter element change

Areas of Application:

- Effective filtration of process gases and protection of downstream plant components such as compressors, fittings, check or control valves

Technical Specifications

Temperature Range:	-50.8 °F / +455 °F (-46 °C / +235 °C)
Max Pressure:	5,800 PSI (400 Bar)
Connection Type:	GThread, NPT, SAE Flange, ASME Flange, EN Flange
Housing Material:	316 Stainless Steel
Filter Material and Filtration Rating:	Chemicron® metal fiber fleece, 0.1 μm – 25 μm Processmicron® glass fiber fleece, 0.1 μm – 25 μm Wire mesh, 20 μm – 500 μm

How to Build a Valid Model Number for a Schroeder GF3:

Filter Type	Element Type	Filter Material	Size	Type of Connection	Connection Sizes	Pressure Range of Flange	Filtration Rating	Clogging Indicator	X - Pressure of Clogging Indicator	Seal Material	Modification Number

Filter Type

GF3 = Gas Filter GF3

Element Type

P = Particle Filter Element
C = Coalescer Filter Element

Filter Material

M = Chemicron® metal fiber fleece
D = Wire Mesh
B = Processmicron® Glass fiber fleece

Size

010	150 bar max pressure
030	400 bar max pressure
060	400 bar max pressure
160	400 bar max pressure
330	400 bar max pressure
660	400 bar max pressure
990	400 bar max pressure

Type of Connection

G = BSP thread (DIN 228-1)
N = NPT thread (ASME B1.20.1)
S = SAE flange (6000 PSI)
A = ASME flange (B 16.5)
F = EN flange (EN 1092-1)

Connection Sizes (Select based on Size and Type of Connection)

	Size:	G	N	S	A	F
0	010	1/4"	1/4"	-	-	-
1	010 / 030	1/2"	1/2"	-	1/2"	15
2	060	3/4"	3/4"	-	3/4"	20
3		-	-	-	1"	25
4	160	1 1/4"	1 1/4"	-	1 1/4"	32
5		-	-	-	1 1/2"	40
5	330 / 660 / 990	1 1/2"	1 1/2"	1 1/2"	1 1/2"	40
6		2"	2"	2"	2"	50

Pressure Range of Flange (Add behind size)

	A	F	G, N or S
0	-	6	x
1	-	10	-
2	150	16	-
3	-	25	-
4	300	40	-
5	600	63	-
6	900	100	-
7	-	160	-
8	1500	250	-
9	-	320	-
S	2500	400	-

Filtration Rating (Select micron rating based on filter material)

M = **0.3 / 1 / 3 / 5 / 10 / 20 / 30 (absolute)**
D = **10 / 40 / 60 / 100 / 250**
B = **0.3 / 1 / 3 / 5 / 10 / 20**

Clogging Indicator

0 = without indicator
1 = visual indicator (PVD X B.1)
2 = visual-electrical indicator (PVD X D.0/-L24)
6 = electrical indicator (PVD X C.0)

X - Pressure of Clogging Indicator (bar)

P1 / P1.5 / P2 / P3 / P5 / P8

Seal Material

V = O-ring FKM EDR
H = O-ring HNBR LT EDR
N = O-ring HNBR EDR
A = O-ring FEPM
K = O-ring FFKM
VS = FKM
FS = FVMQ
MS = VMQ

Modification Number

1 = Latest Supplied

Elements and Seals for GF3

PF3/CF3   **GF3 Seal Kit**

How to Build a Valid Model Number for a Schroeder PF3/CF3:

Element Type	Size	Filter Material	Filtration Rating	Seal Material	Modification Number
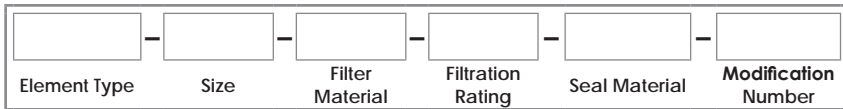
Element Type

PF3 = Particle Filter Element
CF3 = Coalescer Filter Element

Size

010 / 030 / 060 / 160 / 330 / 660 / 990

Filter Material

M = Chemicron® metal fiber fleece
D = Wire Mesh
B = Processmicron® glass fiber fleece

Filtration Rating   (Select micron rating based on filter material)

M =   **0.3 / 1 / 3 / 5 / 10 / 20**
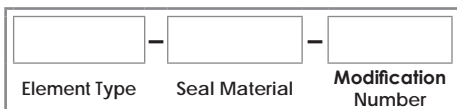D =   **25 / 40 / 60 / 100 / 150 / 200**
B =   **0.3 / 1 / 3 / 5 / 10 / 20**

Seal Material

V = O-ring FKM EDR
H = O-ring HNBR LT EDR
N = O-ring HNBR EDR
A = O-ring FEPM
K = O-ring FFKM
FS = O-ring FVMQ
VS = O-ring FKM standard
NS = O-ring NBR standard

Modification Number

0 = Latest Provided

How to Build a Valid Model Number for a Schroeder GF1 Seal Kit:

Element Type	Seal Material	Modification Number

Element Type

GF3 = GF3 Seal Kit

Seal Material

V = O-ring FKM EDR
H = O-ring HNBR LT EDR
N = O-ring HNBR EDR
A = O-ring FEPM
K = O-ring FFKM
FS = O-ring FVMQ
VS = O-ring FKM standard
NS = O-ring NBR standard

Modification Number

0 = Latest Provided