FILTER COMPONENTS

Filter Housing Connection Fittings

Assemblies of manifolds, connecting pipework, valves and connection fittings that join cartridge, bag and basket filter housings with a manifold system, in parallel or in series. Made to order for each project; used on lines that need uninterrupted operation or staged filtration.



FITTING TYPE	CONNECTION LAYOUT	SIZE RANGE	OPERATING PRESSURE
5 types	**3 layouts**	**DN15–DN200**	**PN10–PN25**
Detachable or welded	Manifold · Parallel · Series	½″–8″ · custom sizes on request	10 · 16 · 25 bar

Technical specifications

Connection layout	Manifold · Parallel · Series
Connection method	Detachable (flanged, union, clamped) · Welded one-piece pipe
Number of housings	Manifold: 2 or more · Parallel with ball valves: maximum 2 housings
Compatible filter housings	Cartridge · Bag · Basket filter housings
Body / manifold material	AISI 304 · AISI 316L stainless steel
Connection size	DN15–DN200 (½″–8″) · Custom sizes on request
Connection type	Nipple · Socket · Union · Clamp (tri-clamp) · DIN / ANSI flange
Operating pressure	PN10 (10 bar) · PN16 (16 bar) · PN25 (25 bar)
Valve type	Full-bore stainless ball valve · Butterfly valve
Manifold	All housings connect through a common manifold to a single inlet and a single outlet line; can be fed from either end
Parallel	Separate valve at each housing inlet and outlet; one housing is cleaned while the other runs, two housings double capacity
Series	Staged filtration from coarse to fine; bottom outlet of housing 1 to top inlet of housing 2, the line stops for maintenance
Separation point	Series: union, clamp or flange mid-line · Parallel: housing's own end type
Surface finish	Buffing
Production	Made to order for each project; by number of housings, housing size, connection type, pressure, fluid and flow rate

Fitting types

TYPE	CONNECTION LAYOUT	METHOD	MAINTENANCE	ASSESSMENT
1	Manifold (2+ housings)	Detachable	Valves, seals and manifold parts replaced one by one; housings can be added	Recommended
2	Series (staged)	Detachable	With the line stopped, housings are separated at the union, clamp or flange	Recommended
3	Parallel with ball valves (max. 2 housings)	Detachable	One housing is isolated with its valve and cleaned while the other runs	Ideal for 2 housings
4	Manifold	Welded	Housings cannot be removed; a failed valve cannot be replaced	Not recommended
5	Series (staged)	Welded	Cannot be dismantled; housings cannot be accessed one by one	Not recommended

Welded types can be manufactured; building the same layout with the detachable type is recommended.

Separation point and connection type

Series connection
In a detachable series, a union, clamp or flange is added in the middle of the line; housings are separated there. In a welded series they cannot be separated.

Parallel connection
With ball valves, clamp, union or flange and a T-piece. The fittings continue with the housing's connection type; no additional union is needed.

Manifold
Separation is at the connections on the manifold ends; whether a union is needed for the housing type is confirmed at the quotation stage.

Connection selection

Uninterrupted operation
If the line must run while one housing is cleaned, choose a parallel connection.

Staged filtration
Series connection for a micron sequence; series groups can also be connected to each other in parallel.

Process conditions
Fluid, temperature, pressure and flow rate determine the material (304 / 316L) and valve class.

Use and maintenance

- If maintenance, revisions or valve replacement are expected, choose the detachable type.
- In a parallel system, isolate the housing by closing its inlet and outlet valves before changing the filter.
- In a series connection, change filters with the line stopped.
- For a quote, share the number of housings, housing size, connection type, operating pressure, fluid and flow rate.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

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