

The Waverley brownall inline tee filter is designed to provide a simple solution for removing system contamination from flow media. It is designed for liquid or gas applications and for pressures of up to 6,000psi. It also incorporates a variety of elements and inlet and outlet port connections including single and double ferrule OD compression ends.

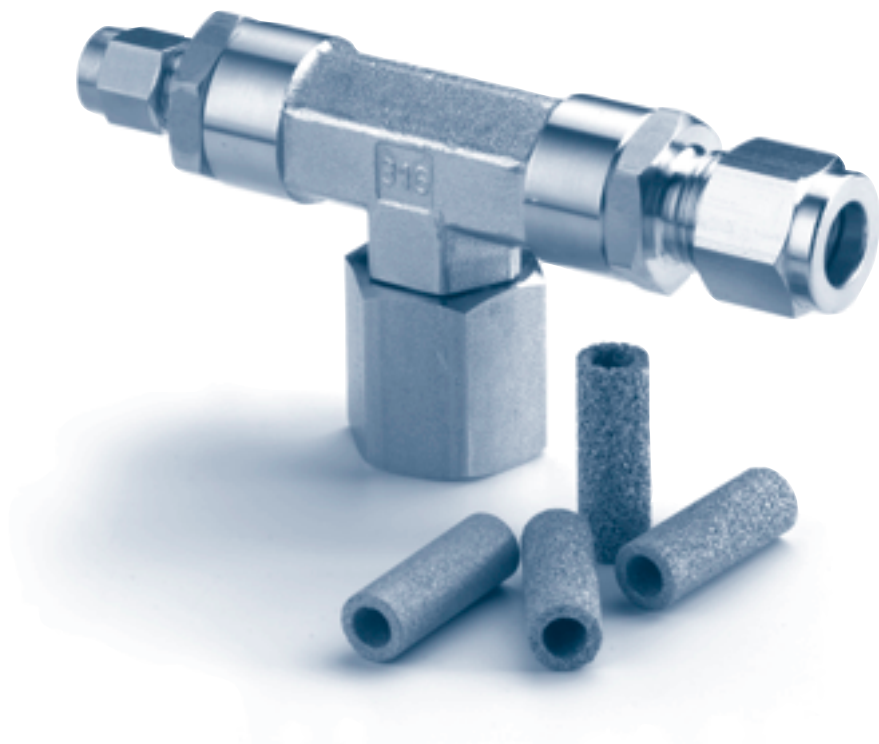
It should be noted when ordering, that the correct screen should be chosen. To choose a finer screen than is necessary will lead to early clogging and too coarse could damage downstream instrumentation.

### Operation

Fluid passes through the outside of the element to the inside. This gives the largest possible area for filtration and minimises cleaning. It also ensures the element remains seated through pressure pulsations.

### Features

- Maximum working pressure 6000psi
- 316 stainless steel construction
- Choice of elements from 15 to 400 micron
- Body remains in situ throughout cleaning
- Range of end connections



## Technical specifications

### Materials of constructions

Bonnet	316 stainless steel
Body	316 stainless steel
Sintered filter	316 stainless steel
O-ring	Viton
Back up ring	PTFE
Filter seat	PTFE
Filter cap	PTFE

### Technical specifications

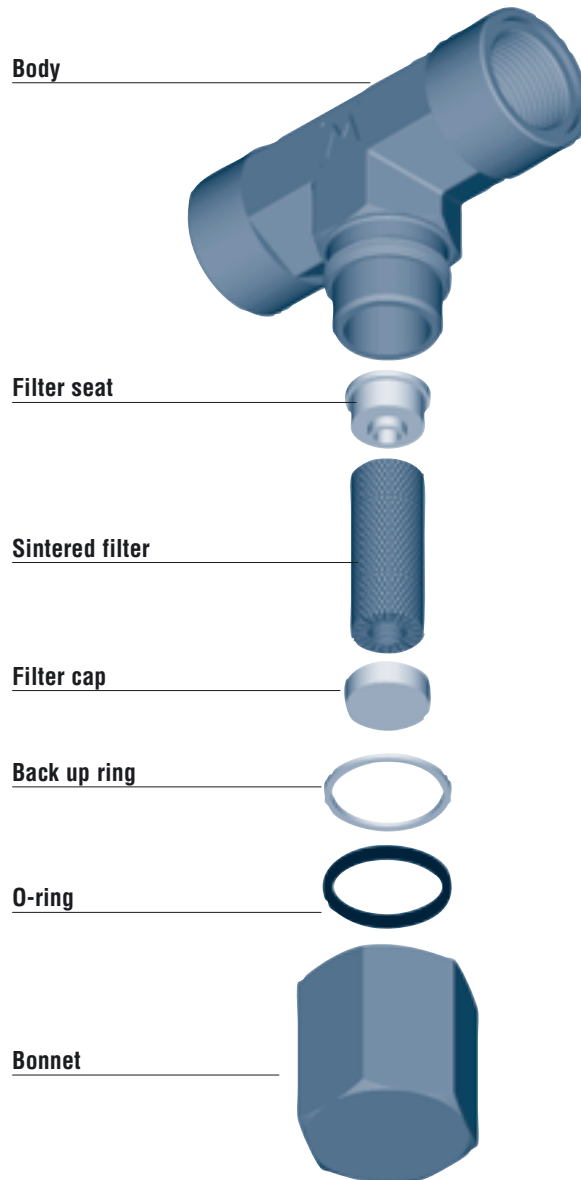
Pressure rating	6000psi
Temperature rating	-20 to 230°C
Sintered grades (µm)	
Mesh grades (µm)	15, 60, 100, 200, 400
Sintered element area (sq in)	1.708

### Valve connections

NPT	ANSI/ASME B1-20.1
BSPT	BS21
BSP	BS2779

### Valve markings

Make or manufacturer	Waverley
Direction arrow	
Pressure rating	6,000psi
Cast code	ABC
Filter grade	15 µm



## Installation and maintenance

It is recommended the filter is installed with the bonnet downwards. This reduces the risk of contamination during filter removal.

To clean or replace filter, unscrew the bonnet and withdraw the filter assembly. Replace or clean filter assembly and replace in bonnet. Screw back into body, re-seating filter assembly.

## Valve connections

Waverley strainers are supplied threaded in male and female format to the following standards up to 1/2".

## Valve connections

Compression fitting ends can also be supplied in the following format.

Ringlok® (Double Ferrule)  
1/8" to 1/2" OD  
Duoloc® (Single Ferrule)  
1/8" to 1/2" OD

## Valve markings

Each valve is marked with the information shown.

## Testing

Waverley Tee Filters have been tested for sealing performance based on BS 6755 Pt1. These tests consist of:

Low pressure (50 psi 3.5 bar)  
High pressure shell (9,000 psi 620 Bar)

## Seal kits

Seal kits are supplied for necessary maintenance, and consist of O-rings and element retaining caps.

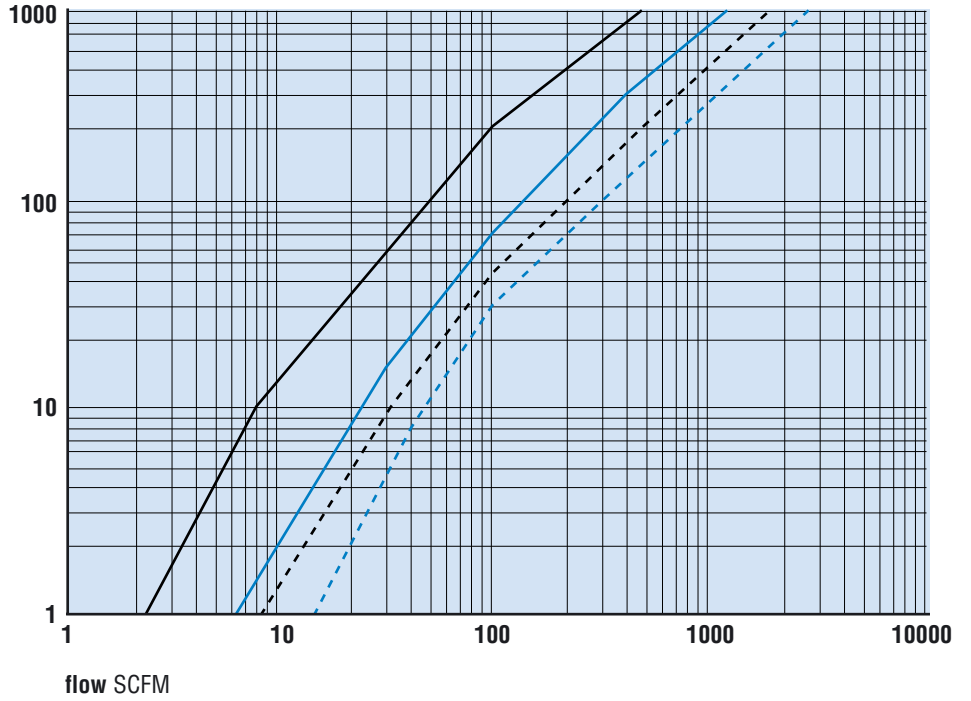
## Cleaning and packaging

All Waverley filters are dispatched fully degreased and sealed. Cleaning for oxygen use on application.

## Air flow

- 15 micron
- 60 micron
- - 100 micron
- - 200 micron

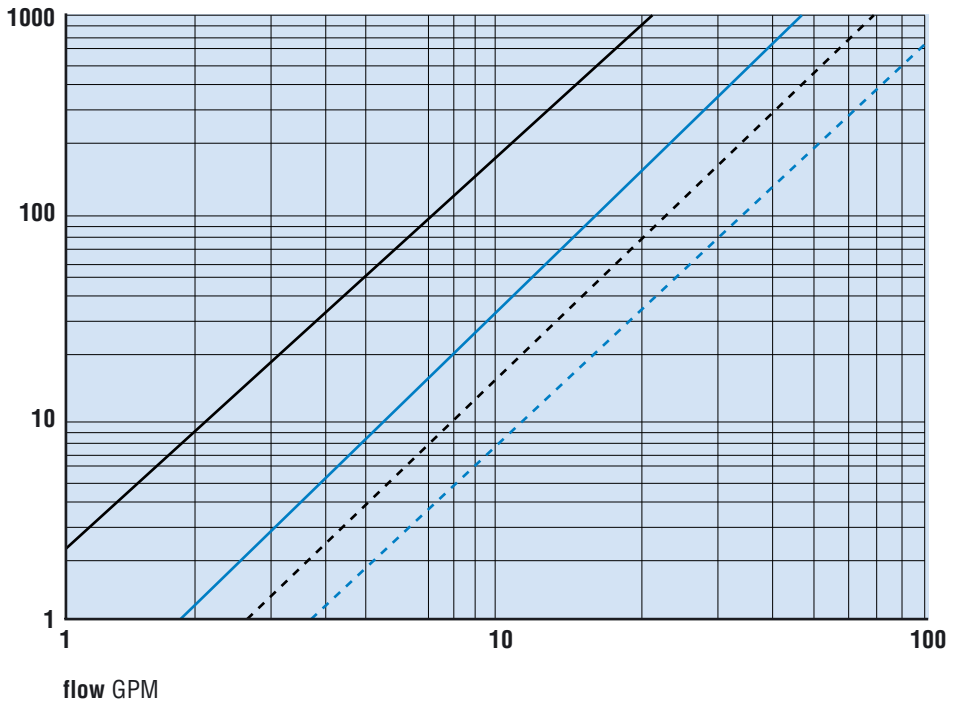
pressure drop psi



## Water flow

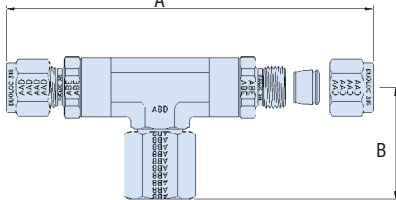
- 15 micron
- 60 micron
- - 100 micron
- - 200 micron

pressure drop psi



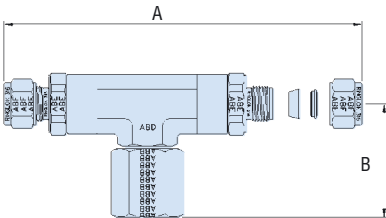


## Duoloc® single ferrule OD compression



thread size	part number	A	B to C/L
1/8" O/D	ST/10D	2.240"	1.968"
3/16" O/D	ST/3/16OD	2.240"	1.968"
1/4" O/D	ST/20D	2.240"	1.968"
3/8" O/D	ST/30D	2.304"	1.968"
1/2" O/D	ST/40D	2.302"	1.968"
6MM O/D	ST/6MOD	58mm	50mm
8MM O/D	ST/8MOD	57mm	50mm
10MM O/D	ST/10MOD	57mm	50mm
12MM O/D	ST/12MOD	57mm	50mm

## Ringlok® double ferrule OD compression



thread size	part number	A	B to C/L
1/8" O/D	ST=10D	3.534"	1.968"
3/16" O/D	ST=3/16OD	3.534"	1.968"
1/4" O/D	ST=20D	3.538"	1.968"
3/8" O/D	ST=30D	3.636"	1.968"
1/2" O/D	ST=40D	3.410"	1.968"
6MM O/D	ST=6MOD	89mm	50mm
8MM O/D	ST=8MOD	90mm	50mm
10MM O/D	ST=10MOD	89mm	50mm
12MM O/D	ST=12MOD	85mm	50mm