



# Screen Fittings

## Introduction

Parker screen fittings ensure the final measure of protection against particles that find their way into a system (even a properly filtrated one) during installation, maintenance, failure of components or by other means. Screen fittings provide a vital safeguard for critical components against damage due to contamination. They are intended to work in conjunction with a good filtration system and are available with screens that retain particle sizes from 480 to 65 micron.

Parker screen fittings are ideal for protecting:

- Gauges and instrumentation
- Critical hydraulic components such as pump compensator load sensing controls, proportional valves, relief valves, etc.
- Precision orifices from clogging
- Expensive components in test bench circuits (against particle contamination created by failed components)

## Design and Construction

**Fitting Body.** Parker screen fittings utilize standard Seal-Lok O-ring face seal and Triple-Lok 37° fitting bodies located in Section B and C respectively in this catalog. (Refer to the "How to Order" paragraph, later in this section, for a listing of configurations for screen fittings that are offered as standard). All screen fittings are manufactured with the micron rating stamped on the fitting body.

**Screen.** Screen fittings are constructed with stainless-steel screen elements. Sizes -6 through -12 fittings are manufactured with a dome-style screen, while size -4 fittings are made with a basket-style screen (see Fig. N7 and N8). Table N3 displays the various micron ratings for available screens. Additionally, Parker screen fittings have bi-directional flow capacity and can be installed in either the tube or port end of the fitting.



Fig. N6 — Screen Fittings.



Fig. N7 — Six dome-style screens and one basket-style screen.

Square Mesh Number	Nominal Micron Rating
40	480*
60	320*
80	230
100	165*
150	125
200	100
325	65

\*These micron ratings are not available as standard from stock

Table N3 — Micron Ratings for available screens

## Pressure Ratings

Parker screen fittings have the same dynamic pressure ratings as the equivalent fitting body (without the screen). Refer to sections B and C for the pressure ratings for Seal-Lok O-ring face seal and Triple-Lok 37° flare fittings.



Fig. N8 — Fitting cutaway with dome-style screen.

reference only, subject to change.