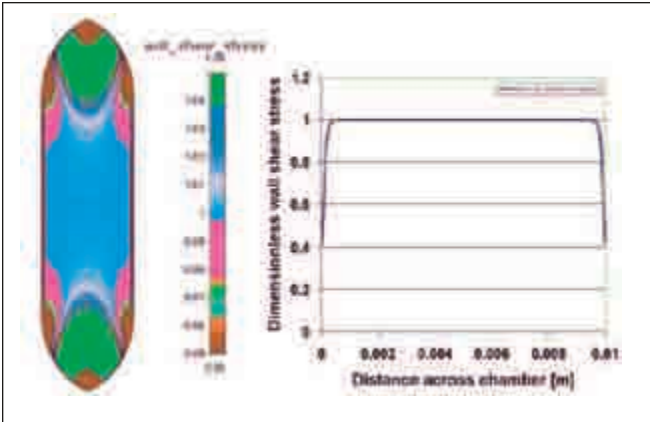


# shear flow chamber

## NEW PFC-1 ProFlow Shear Flow Chamber



- Computer designed gaskets optimized for well-defined, well-controlled shear-flow
- Based on technology developed at Case Western Reserve University
- Single- and dual-flow capable chamber
- Made from polycarbonate for easy cleanup

Warner's new PFC-1 ProFlow chamber is based on the designs of Dr. Melissa Knothe Tate, currently of the Case Western Reserve University.

The chamber uses silicone gaskets, similar in approach to our popular RC-30 chamber, to form a closed-bath area sandwiched between two opposing glass coverslips. However, the ProFlow chamber uses specially designed gaskets that optimize the shear-flow dynamics within the bath. This optimized design results in a nearly uniform shear flow across the entire width of the bath. This allows the shear force to be more easily calculated when these gaskets are used.

Precut gaskets are manufactured from medical-grade silicone, are 0.250 mm thick, and can be stacked to achieve bath heights in multiples of a single gasket. Gaskets are supplied in packs of 10 and can be purchased separately.

The system consists of a top plate and two bottom plates. One bottom plate allows the formation of a single-sided flow chamber for use with cultured cells, and the other bottom plate allows the formation of a double-sided flow chamber for use with isolated sections or for conditions where controlled flow is desired on both sides of a structure.

The PFC-1 is designed to fit into our Series 30 stage adapters.

The PFC-1 comes complete with chamber top, two chamber bases, precut gaskets (10 pk), 15 mm round coverslips (# 1.5 thickness, 100 pk, CS-15R15), 25 mm round coverslips (#2 thickness, 50 pk, CS-25R20) and PE-90 tubing (10 ft).

Order #	Model	Product
W4 64-1860	PFC-1	ProFlow Chamber, fit Series 30 stage adapters
W4 64-1861	-	ProFlow Gaskets, 0.250 mm thick, 10 pk
W4 64-0713	CS-15R15	15 mm round coverslip, glass, #1.5 thickness
W4 64-0722	CS-25R20	25 mm round coverslip, glass, #2 thickness
W4 64-0754	PE-90/10	PE-90 tubing, 10 ft