

# Flow Crossover Assembly

## (Independent Production To Surface)

The Flow Crossover Assembly provides the junction for lower zone and upper zone concentric tubing strings. The top connection of the flow crossover is connected to the production tubing. The lower connection of the flow crossover block has an extended seal bore receptacle for landing a seal assembly (or stinger), which is connected to the inner production tubing.

This provides a sealed barrier between the outer and inner tubing strings. The offset leg of the flow crossover is connected to the Upper ESP in most cases, or connected to the lower system in cases where the upper zone is natural flow or an injection zone.

The UMS Flowell Flow Crossover assembly comprises of the following items:

- 6ft handling sub with a top connection to suit the customer's production tubing
- Optional top nipple used to set a plug, to test the production tubing or set a packer
- Flow crossover body to create the junction between the upper and lower zone systems
- Extended seal bore receptacle for receiving the inner tubing seal assembly (stinger)
- Load bearing and sealing adjustable swivel with 15-inch stroke adjustment, for make to the bypass tubing
- 12ft pump sub for make up to the Upper ESP pump discharge head, or the lower system for upper zones that are natural flow or injection zones.
- Optional bypass tubing crossover, for reducing bypass tubing size.

The parts are torqued, pressure tested and drifted as an assembly ready for make up to the ESP system on the well site.

### FEATURES & BENEFITS

- Fully torqued and tested
- Full material traceability
- Robust construction
- Can be used as junctions for dual zone independent or comingled flow systems

### SPECIFICATIONS

- Low alloy steel or 13Cr material options to API 5CT
- 5000psi MWP



# Technical Specifications - Flow Crossover Assembly

Part no	Casing Size	OD (in)	Top Connection	Top Nipple size (in)	Seal Bore Size (in)	Pump connection	Bypass connection
FX-09625-0002	9-5/8"	8.25	5-1/2" 17# API BUTTRESS BOX	3.688	2.750	3-1/2" 9.3# EUE PIN	2-7/8" 8.6# ST-L PIN L80 TYPE 1
FX-07000-0007	7"	6.00	3-1/2" 9.3# EUE BOX	2.812	2.312	2-3/8" 4.7# EUE PIN	2-3/8" 4.6# F2J PIN

