



Utility Stations

Standard, Dual Power & Air-Cooled

D/F MACHINE SPECIALTIES
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UTILITY STATIONS

D/F MIG (GMAW) and TIG (GTAW) barrels can hook up to any of the different Miller, Lincoln, Esab, Welding Alloys, Fronius, Tweco, etc., power sources and wire feeders. Every wire feeder manufacturer has different sized holes where the torch's conduit or casing plugs into the wire feeder. They call these pins 'power pins'. Typical modern torch setups utilize a unitized cable assembly with a power pin. The gas, water, power and conduit are combined into a single replaceable unit. When one cable goes bad, the whole unit is replaced. This can be expensive. Also, this approach does not allow for a large enough inner power cable needed for necessary high amperages, and it is restricted in size by small passages for water, gas and wire. Water-cooling and gas coverage are both limited by the size restrictions.

We do not refer to these pins as power pins, we call them feeder adapters. We do not put the power on the pin or the feeder adapter. We put the power (4/0 cable) into the back of our Utility Station. The power travels from the Utility Station down our 650 amp Water Out & Power Cable to the torch body where the power is put on the tip that is recessed into the front of our water-cooled inner body. The torch utilities (Water Out & Power Cable, Water In Hose, Gas Hose) are individually plugged into the utility station and to the back of the torch. The casing/conduit, liner, and feeder adapter plug directly into the wire feeder. There is no power on the feeder adapter and casing. The casing's only purpose is to support the liner. The liner not only protects the casing from the abrasive wire, but also supports the wire.

The D/F Utility Station provides a means to interface the D/F torches with the utilities of any new or existing welding cells. It has an insulated protective cover and an insulated phenolic base. The front side accepts the D/F torch's standard cable fittings. The back side allows the existing utility lines to be clamped on and a power cable to be locked in, interfacing the D/F torch with the welding cell. The D/F torch utilities include a gas hose, water-in hose and Water Out & Power Cable. The cables are all independent so that if one cable breaks, the Utility Station exists to allow that cable to be replaced individually, costing much less in the long run than replacing a unitized cable system.

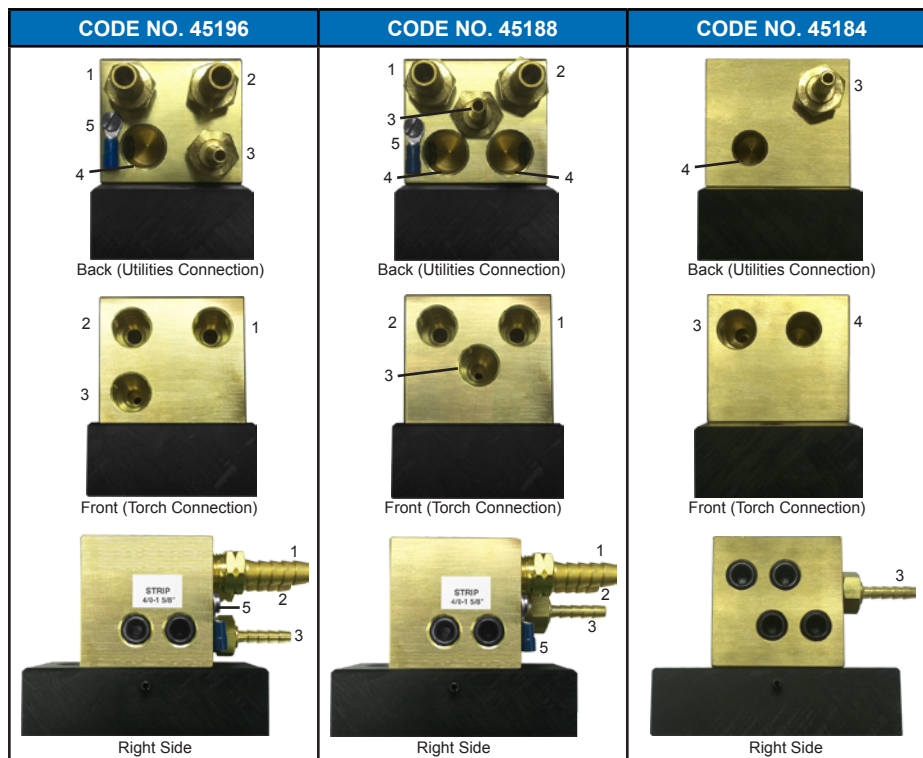
The Utility Station 45196 is the D/F Standard Utility Station. On the front it accepts a D/F gas hose, a D/F water-in hose, and one D/F Water Out & Power Cable. On the back it accepts a single water in hose, a single water out hose, a single gas hose and a single power cable held in by socket set screws. The Utility Station 45188 is the D/F Dual Power Utility Station. On the front it accepts a D/F gas hose, a D/F water-in hose, and two (2) D/F Water In/Out & Power Cables. On the back it accepts a single water in hose, a single water out hose, a single gas hose and two 4/0 power cables held in by socket set screws. The Utility Station 45184 is the D/F Utility Station for air-cooled torches. On the front it accepts a D/F gas hose and a D/F 1/0 power cable held in by socket set screws. On the back it accepts a single gas hose and a single power cable that is held in by socket set screws. Each Utility Station is also fitted with a voltage sensing lead.

ORDERING INFORMATION

DESCRIPTION	CODE NO.
Utility Station - Standard W/C	45196
Utility Station - Dual Power W/C	45188
Utility Station - A/C Barrels	45184

UTILITY STATION CONNECTIONS

DESCRIPTION	REFERENCE
Water Out & Power Cable	1
Water In Hose	2
Shielding Gas Hose	3
Power Cable	4
Voltage Sensing Lead	5



DIMENSION SPECIFICATIONS

Base Length	3.75"
Overall Length	5.75"
Base Width	2.25"
Overall Width	2.5"
Overall Height	3.125"
Mount Hole Center Distance	2.75"
Overall Weight	3.5 lbs.

