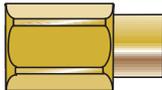
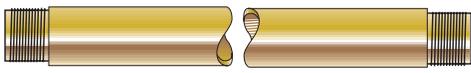
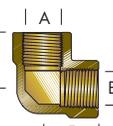
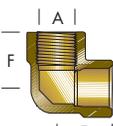
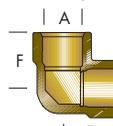


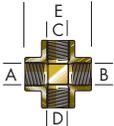
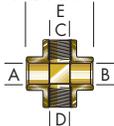
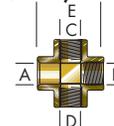
PART NO.	OD & WALL	LENGTH	STYLE	MATERIAL	MANIFOLD TUBING  COIL
CT-40	1/4" x .065	50 Feet	Coil	Copper, Annealed	
CT-50	5/16" x .065	50 Feet	Coil	Copper, Annealed	
CT-60	3/8" x .065	50 Feet	Coil	Copper, Annealed	

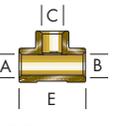
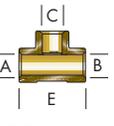
MANIFOLD TUBING ADAPTOR BUSHINGS  BT-2M2	PART NO.	DESCRIPTION	MATERIAL
	Fits PH-1 Pigtail Handle		
	BT-2M1	1/4" NPTF x 1/4" OD Tubing Recess	Brass
	BT-2M2	1/4" NPTF x 5/16" OD Tubing Recess	Brass
	BT-2M3	1/4" NPTF x 3/8" OD Tubing Recess	Brass
	BT-2M1SS	1/4" NPTF x 1/4" OD Tubing Recess	St. Steel

PART NO.	LENGTH	SIZE	PART NO.	LENGTH	SIZE	MANIFOLD PIPE & PIPE FITTINGS, BRASS BRASS ALLOY 360, PRESSURES TO 3000 PSIG (20,700 kPa)  PIPE NIPPLE LENGTH
*(1/2" PIPE WALL THICKNESS - .196") * (3/4" PIPE WALL THICKNESS - .230") THREADED PIPE NIPPLES						
WHF-3-1	1-1/2"	1/2" NPT	WHF-3-9	1-1/2"	3/4" NPT	
WHF-3-2	2"	1/2" NPT	WHF-3-10	2"	3/4" NPT	
WHF-3-3	4"	1/2" NPT	WHF-3-11	4"	3/4" NPT	
WHF-3-19	6"	1/2" NPT	WHF-3-21	6"	3/4" NPT	
WHF-3-5	8-1/2"	1/2" NPT	WHF-3-13	8-3/8"	3/4" NPT	
WHF-3-7	11-1/2"	1/2" NPT	WHF-3-16	11-3/8"	3/4" NPT	
Cleaned for Oxygen Service—Suitable For Acetylene Service						

NOMINAL PIPE LENGTHS BRASS ALLOY 360, PRESSURES TO 3000 PSIG (20,700 kPa)  SHORT PIPE LENGTH	PART NO.	LENGTH	SIZE	PART NO.	LENGTH	SIZE
	CLEANED FOR OXYGEN					
	WHF-3-23	2"	1/2" Nom			
	WHF-3-4	4"	1/2" Nom			
	WHF-3-20	6"	1/2" Nom			
	WHF-3-6	8-1/2"	1/2" Nom			
NOT CLEANED FOR OXYGEN						
	WHF-3-120	6 Feet	1/2" Nom	WHF-3-122	6 Feet	3/4" Nom
	WHF-3-17	12 Feet	1/2" Nom	WHF-3-18	12 Feet	3/4" Nom
Note: 12 Foot Lengths Must Ship Via Common Carrier						

PART NO.	REF A	REF B	REF F	ELBOWS	Pipe Elbows, Female PRESSURES TO 3000 PSIG (20,700 kPa)  FIGURE 1	 FIGURE 2	 FIGURE 3
WHF-4-8	1/2" NPT	1/2" NPT	1-1/4"	Figure 1			
WHF-4-11	3/4" NPT	3/4" NPT	1-3/8"	Figure 1			
WHF-4-15	1/2" NPT	.843"-.847"	1-1/4"	Figure 2			
WHF-4-19	3/4" NPT	1.053"-1.057"	1-3/8"	Figure 2			
WHF-4-2	.843"-.847"	.843"-.847"	1-1/4"	Figure 3			
.843"-.847" = 1/2" Pipe Slip * 1.053"-1.057" = 3/4" Pipe Slip							

Pipe Crosses, Female		PART NO.	REF A	REF B	REF C & D	REF E	CROSSES
PRESSURES TO 3000 PSIG (20,700 kPa)		WHF-4-9	1/2" NPT	1/2" NPT	1/2" NPT	2-1/2"	Figure 1
		WHF-4-12	3/4" NPT	3/4" NPT	3/4" NPT	2-3/4"	Figure 1
		WHF-4-16	.843"-.847"	.843"-.847"	1/2" NPT	2-1/2"	Figure 2
		WHF-4-23	.843"-.847"	1/2" NPT	1/2" NPT	2-1/2"	Figure 3
		.843"-.847" = 1/2" Pipe Slip					

PART NO.	REF A	REF B	REF C	REF E	TEES	Pipe Tees, Female	
WHF-4-7	1/2" NPT	1/2" NPT	1/2" NPT	2-1/2"	Figure 1	PRESSURES TO 3000 PSI (20,700 kPa)	
WHF-4-10	3/4" NPT	3/4" NPT	3/4" NPT	2-3/4"	Figure 1		
WHF-4-14	.843"-.847"	.843"-.847"	1/2" NPT	2-1/2"	Figure 2		
WHF-4-18	1.053"-1.057"	1.053"-1.057"	3/4" NPT	2-3/4"	Figure 2		
WHF-4-13	1/2" NPT	1/2" NPT	.843"-.847"	2-1/2"	Figure 3		
WHF-4-21	.843"-.847"	1/2" NPT	1/2" NPT	2-3/4"	Figure 4		
WHF-4-22	1.053"-1.057"	3/4" NPT	3/4" NPT	2-1/2"	Figure 4		
WHF-4-1	1.053"-1.057"	1.053"-1.057"	1.053"-1.057"	2-3/4"	Figure 5		
.843"-.847" = 1/2" Pipe Slip * 1.053"-1.057" = 3/4" Pipe Slip							

PART NO.	GAS SERVICE	DESCRIPTION	MATERIAL
FEMALE NPT OUTLET ADAPTORS FOR MANIFOLD PIPELINE, BRASS & STAINLESS STEEL			
500 PSIG (3400 kPa)			
3000 PSIG (20,700 kPa)			
6000 PSIG (41,300 kPa)			
CGA VALVE OUTLETS TO FEMALE PIPE THREADS			
15-1	CGA-300	Commercial Acetylene, to 500 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
CO-2-1	CGA-320	Carbon Dioxide, to 3000 PSIG: RH Male .825"-14 NGO, to 1/4" NPT Female	Brass
1321-1	CGA-326	Nitrous Oxide, to 3000 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
1341-1	CGA-346	Air, to 3000 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
SS-1341-1	CGA-346	Air, to 3000 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	St. Steel
347-1	CGA-347	Air, to 5500 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
SS-347-1	CGA-347	Air, from 3,001 to 5500 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	St. Steel
800-1	CGA-350	Hydrogen, Natural Gas, to 3000 PSIG: LH Male .825"-14 NGO to 1/4" NPT Female	Brass
500-1	CGA-500	Medical Mixtures, to 3000 PSIG: RH Female .885"-14 NGO to 1/4" NPT Female	Brass
16-1	CGA-510	POL Acetylene, Propane, to 500 PSIG: LH Female .885"-14 NGO to 1/4" NPT Female	Brass
300-1	CGA-510	POL Acetylene, Propane, to 500 PSIG: 90° LH Female Nut .885"-14 NGO to 1/4" NPT Female	Brass
415-1	CGA-540	Oxygen, to 3000 PSIG: RH Male .903"-14 NGO to 1/4" NPT Female	Brass
SS-415-1	CGA-540	Oxygen, to 3000 PSIG: RH Male .903"-14 NGO to 1/4" NPT Female	St. Steel
414-1	CGA-555	Butane, Propane Liquid, 3000 PSIG: LH Male .903"-14 NGO to 1/4" NPT Female	Brass
416-1	CGA-580	Argon, Helium, Nitrogen to 3000 PSIG: RH Female .965"-14 NGO to 1/4" NPT Female	Brass
417-1	CGA-590	Industrial Air, to 3000 PSIG: LH Female .965"-14 NGO to 1/4" NPT Female	Brass
660-1	CGA-660	Refrigerant Gases, to 3000 PSIG: RH Male 1.030"-14 NGO to 1/4" NPT Female	Brass
SS-660-1	CGA-660	Refrigerant Gases, to 3000 PSIG: RH Male 1.030"-14 NGO to 1/4" NPT Female	St. Steel
SS-667-1	CGA-677	Argon, Helium, Nitrogen from 5,501 to 7500 PSIG: LH Male 1.030"-14 NGO to 1/4" NPT Female	St. Steel

