



MATCHING OPTIONS WITH GASES

RECOMMENDED OPTIONS ARE
SHADED

CONSTRUCTION TRIM
COMPATIBILITY:

G=Good, F=Fair, N=Do NOT use

MATERIALS OF CONSTRUCTION

		TRIPLE SEAL	TNT-12 COATED	POLY P-RINGS*	IRON	BRONZE	ALUMINUM	BUNA	NEOPRENE	FKM	PTFE	COMMENTS
AMINES					N	N			F	F	G	
AMMONIA	NH3				G		G	F	G		G	NO COPPER
ARGON	AR											
BIOGAS												
BUTADIENE	C4H6				G	G	G	G	F	G	G	NO COPPER, CAN REACT WITH AIR
BUTANE/BUTENE	C4H10/C4H8				G	G	G	G	F	G	G	
CFC/HFC/HCFC					G	G	G	F	F	F	G	
CARBON DIOXIDE	CO2				G	G	G	G	F		G	IF WET, USE STAINLESS STEEL PIPING
CARBON MONOXIDE	CO				G			G		G		NO NICKEL
CHLORINE	CL2				G				F	G	G	CRO2 RODS REQUIRED, NO OILS/GREASE
DIMETHYLAMINE	(CH3)2NH				G				F	F	G	NO COPPER, TIN, ZINC
DIMETHYL ETHER	(CH3)2O				G	G	G	G		G	G	
ETHANE	C2H6				G	G	G	G	G	G	G	
ETHYLENE	C2H4				G		G	G			G	
ETHYLENE OXIDE	C2H4O				F						?	
HELIUM	HE				G	G	G	G	G	G	G	
HYDROCARBONS	HC				G	G	G	G	G	G	G	
HYDROGEN	H2				G	G	G	G	G		G	
HYDROGEN CHLORIDE	HCL				G						G	USE HIGH NICKEL ALLOYS IF WATER VAPOR PRESENT
HYDROGEN SULFIDE	H2S				G		G				G	NO YELLOW METALS/KEEP<RC22, SEE NACE REQUIREMENTS
ISOBUTANE	CH(CH3)3				G	G	G	G	F		G	NO YELLOW METALS
ISO BUTYLENE	(CH3)2C:CH2				G					G	G	
METHANE	CH4				G	G	G	G	G	G	G	
METHYL CHLORIDE	CH3CL				G	G	N			G	G	NO ZINC,ALUM,MG. USE CRO2 RODS
METHYL MERCAPTAN	CH3SH				G	N					G	NO COPPER, ZINC, LEAD
NATURAL GAS					G	G	G	G	G		G	
NITROGEN	N2				G	G	G	G	G	G	G	ABRASIVE WHEN BONE DRY
NITROUS OXIDE	N2O				G				G	G	G	AS PER OXYGEN, STAINLESS STEEL RECOMMENDED
OXYGEN	O2				G							USE NICKEL ALLOYS, NO OILS, TRICHLOROETHANE CLEANING
PROPYLENE	C3H6				G					G	G	
SULPHUR DIOXIDE	SO2				G	F	G	G	F	G	G	CORROSIVE WHEN WET
VINYL CHLORIDE	CH2CHCL				G				F	G	G	CRO2 RODS

* Poly-filled PTFE Piston Rings.