



SAFETY-RELIEF VALVE

MODEL 1500

FLUID MECHANICS SAFETY RELIEF VALVES ARE DESIGNED TO GIVE BUBBLE TIGHT SHUT-OFF OF CLEAN DRY GASES WITH CONSISTENT PERFORMANCE AT PRESSURES UP TO 35,000 PSIG.

CONSULT FACTORY FOR CRYOGENIC TRIM

INNER VALVE UNIT

THE INNER VALVE UNIT IS EASILY REPLACED. BY REPLACING THIS UNIT, THE NOZZLE, SEATS, DISC AND ALL GUIDE AREAS ARE REPLACED.

GUIDE

THE GUIDE AREA ON THE SLEEVE AND ON THE DISC ASSEMBLY ARE BEAD BLASTED TO PREVENT GALLING.

PLASTIC SEAT

THE SOFT SEATED VALVES CONTAIN A SPECIAL CAPTURED PLASTIC SEAT. THIS SEAT IS SPECIALLY MACHINED WITH THE METAL BACK-UP SECTIONS TO ASSURE PERFECT HEIGHT AND WIDTH FOR BUBBLE TIGHT SHUT-OFF AND TO PREVENT SEAT BLOWOUT UNDER SONIC VELOCITIES.

NOZZLE SEAT

THE NOZZLE SEAT IS POLISHED TO OPTIMAL FLATNESS.

SEALS

THE EXTERNAL SEALS PREVENT ANY EXTERNAL LEAKAGE.

INTERNAL CAVITY

THESE VALVES WERE DESIGNED WITH A LARGE INTERNAL CAVITY. THIS DESIGN FEATURE PREVENTS PRESSURE BUILD-UP INSIDE THE VALVE. PRESSURE BUILD-UP INSIDE THE VALVE CAN CAUSE CHATTERING OF THE INNER VALVE UNIT WHICH RESULTS IN REDUCED CAPACITY AND DAMAGE TO SEALING SURFACES.

