

F/M

SAFETY-RELIEF VALVE

MODEL 1600

*ASME
UV CODED

NATIONAL BOARDED

*ASME UV CODED PER SEC. VIII DIV. I
AIR & GAS SERVICE.(PLASTIC SEATS ONLY)

FLUID MECHANICS SAFETY RELIEF VALVES ARE DESIGNED TO
GIVE BUBBLE TIGHT SHUT-OFF OF CLEAN DRY GASES WITH
CONSISTENT PERFORMANCE AT PRESSURES UP TO 6,000 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.

