

SHEET No.:

SSAT0061

REV.:

B

Sheet 1 of 1

DESCRIPTION:

94 L/MIN (25 GPM) LOW PRESSURE COOLANT
SPRAY VALVE SPECIFICATION

REFERENCE NUMBER(S):

94 LPM VALVE WITH SPRING SEALS

94 L/MIN (25GPM) LOW PRESSURE COOLANT SPRAY VALVE SPECIFICATIONS

U.S. PATENTS

4,568,026, 4,733,696, 4,733,697
AND OTHERS PENDING APPLY

FLOW RATING AT 7 BAR (100 PSI)

94 L/MIN. (25 GPM) – NORMALLY OPEN

COOLANT PRESSURE RANGE

2.8 - 11.0 BAR (40 - 160 PSI)

TEMPERATURE RANGE

4 DEGREES - PLUS 82 DEGREES C.
(40 DEGREES - PLUS 180 DEGREES F.)

SPRAY ZONE WIDTH - MINIMUM

25mm (0.98 INCH) CENTERS

VOLTAGE

24.0 VDC + 5% - 5%

CURRENT

0.35 AMPERES MAXIMUM

RESPONSE TIME IN MILLISECONDS

30 OPEN - 30 CLOSE

ELECTRICAL RATINGS

CONTINUOUS DUTY OR PULSING

FLUIDS

MINERAL AND WATER SOLUBLE OILS

FILTRATION

.190 INCH DIAMETER SCREEN OR #4 MESH

VISCOSITY

1 SUS TO 150 SUS

SEAL MATERIALS

MILITARY SPECIFICATION VITON ELASTOMER

INTERNAL PARTS

HARDENED STAINLESS STEEL

EXTERNAL PARTS

STAINLESS STEEL

LIFE EXPECTANCY

10 MILLION CYCLES

PILOT AIR REQUIRED AT HEADER

MINIMUM 60% OF COOLANT PRESSURE

MAXIMUM PILOT AIR PRESSURE

CONSULT FACTORY FOR PULSE APPLICATIONS
8.28 BAR (120 PSI)

PILOT AIR VOLUME REQUIRED

.0002 CUBIC FEET PILOT AIR PER CYCLE CLOSED

CONDITION OF PILOT AIR

40 MICRON FILTERED AND LUBRICATED

VIBRATION - SHOCK

PLUS/MINUS 10 G'S

RECOMMENDED PILOT AIR PRESSURE

COOLANT PRESSURE

BAR (PSI)

2.8 (40)

3.5 (50)

5.2 (75)

6.9 (100)

8.6 (125)

10.4 (150)

11.0 (160)

PILOT AIR REQUIRED

BAR (PSI)

2.8 - 6.9 (40 - 100)

3.5 - 6.9 (50 - 100)

4.1 - 6.9 (60 - 100)

5.5 - 6.9 (80 - 100)

6.5 - 6.9 (95 - 100)

6.9 - 7.9 (100 - 115)

8.3 (120 MAXIMUM)

COOLANT PRESSURE DROP THROUGH SPRAY VALVE

COOLANT PRESSURE

BAR (PSI)

7 (100)

7 (100)

7 (100)

7 (100)

7 (100)

FLOW

LITERS / MIN.
(U.S. GPM)

19 (5)

38 (10)

57 (15)

76 (20)

95 (25)

SPRAY VALVE NOZZLE PORT

BAR (PSI)

6.8 (98)

6.6 (95)

6.1 (88)

5.5 (80)

4.9 (70)