



# Sampling and Bleed Valve High Pressure O TO 6000 PSIG

### DESCRIPTION

The valves that comprise the P-500 Series line offer a complete series of minimum weight and compact configuration Hydraulic Sampling and Bleed Valves. Two configurations are available, one with a high pressure capability (0-6000 psig) and the other with a 0-3000 psig pressure capability. Each model features "easy operation" and "dead tight" sealing shutoff. The complete P-500 Series is designed for minimum self-generated contamination utilizing a non-rotating corrosion resistant seal.

### OPERATING CHARACTERISTICS

Each model of the P-500 Series can be opened for metered or full flow within one-quarter clockwise turn of the "easy grip" handle. Closing of the valve is accomplished by releasing the handle which automatically returns to the closed position effecting a "dead tight" seal.

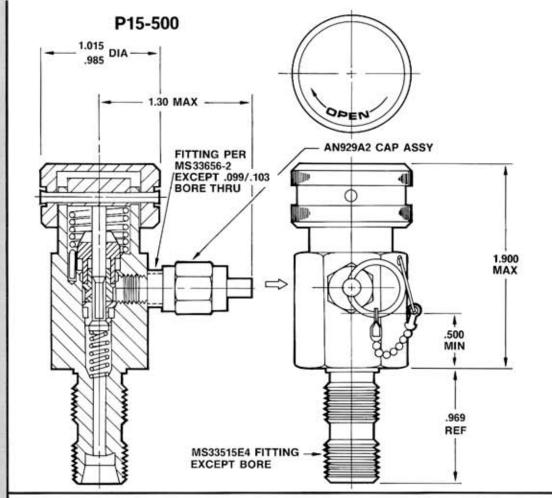
This series provides metered flows ranging from 0 psig to 3000 psig with a maximum exit velocity of 30-feet per second at 3000 psig for personnel safety.

The P14-500 and P15-500 configurations of the Miniaturized High Pressure Sampling and Bleed Valves have been qualified specifically, including envelope, to the requirements of Specification MIL-V-81940 (QPL).

The P12-500, P13-500, and P16-500 and other models in the P12-500 thru P25-500 Series may be qualified to the MIL-V-81940 Specification by similarity.

### APPLICATIONS

All models of each configuration of the P-500 Series are used in Airborne Installations, Ground Support Equipment, Shipboard, and in numerous other applications where ease of operation, minimum weight, compact size, and zero leakage are the criteria for Sampling and Bleed Valves with low to high pressure capabilities.



### SPECIFICATIONS:

OPERATING PRESSURE 0 TO 3000 PSI PROOF PRESSURE

PROOF PRESSURE 6000 PSI

BURST PRESSURE (MIN) 10,000 PSI

OPERATING TEMP. -65° TO +275°F

INTERNAL LEAKAGE 0 EXTERNAL LEAKAGE 0

FLOW 100ML/MIN

@ 50 PSID MAX PRESSURE DROP MIL-H-5606.

CONDITIONS 90 ± 20°F

SUITABLE FOR

MIL-H-6083 AIR, No.

VALVE MAT'L. 7075-T651 AL ALLOY

CONFORMS TO REQ'TS OF MIL-V-81940

MAX VELOCITY

32 FT/SEC @ 3000 PSI

### SAMPLING VALVE DATA

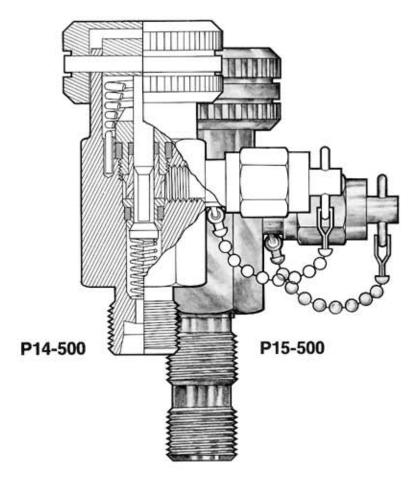
PART NUMBER	INLET CONNECTION	OUTLET CONNECTION	QUALIFYING SPECIFICATION (QPL)
P14-500	MS33514E4	MS33656-2 (Mod.) with AN929A2 Cap	MIL-V-81940
P15-500	MS33515E4 Bulkhead Fitting	MS33656-2 (Mod.) with AN929A2 Cap	MIL-V-81940

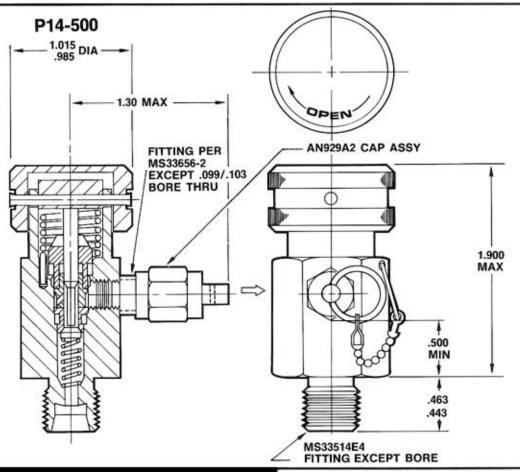
### **VARIATIONS\***

PART NUMBER	INLET CONNECTION	OUTLET CONNECTION	QUALIFYING SPECIFICATION (Similarity)
P12-500	MS33657E4	1/4-28UNF, 2A	Same as MIL-V-81940 except Inlet/Outlet Connection
P13-500	MS33657E6	14-28UNF, 2A & Hose Bib	Same as MIL-V-81940 except Inlet/Outlet Connection
P16-500	MS33657E4	MS33656-2 (Mod.) with AN929A2 Cap	Same as MIL-V-81940 except Inlet Connection
P59-500	1/4-18NPT	MS33656-2 Fitting AN929A2 Cap Assembly	Same as MII-V-81940 except Inlet Connection
HV50-2	7/16-20UNJF-3A with adapter nut to allow 360° orientation of outlet connection	MS33656-2 Fitting AN929A2 Cap Assembly	Same as MIL-V-81940 except Inlet Connection

<sup>\*</sup>Other inlet and outlet combinations are available to meet individual installations

## Sampling and Bleed Valve High Pressure O TO 6000 PSIG





SPECIFICATIONS: **OPERATING PRESSURE** 

0 TO 3000 PSI

PROOF PRESSURE 6000 PSI

**BURST PRESSURE** (MIN.) 10,000 PSI

OPERATING TEMP.

-65° TO +275°F

INTERNAL LEAKAGE 0 EXTERNAL LEAKAGE 0 FLOW 100ML/MIN

@ 50 PSID MAX PRESSURE DROP MIL-H-5606.

CONDITIONS 90 ± 20°F SUITABLE FOR MIL-H-5606, AIR, GN2, H2O

VALVE MAT'L. 7075-T651 AL ALLOY

CONFORMS TO REQ'TS. OF MIL-V-81940

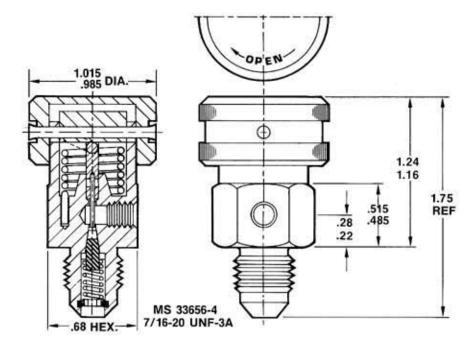
MAX VELOCITY 30 FT/SEC @ 3000 PSI



# Sampling and Bleed Valve

High Pressure o to 6000 PSIG





### SPECIFICATIONS:

OPERATING PRESSURE 6000 PSI PROOF PRESSURE

9000 PSI

BURST PRESSURE OVER 14,000 PSI

OPERATING TEMP. -65° TO 160°F AMBIENT

INTERNAL LEAKAGE 0 EXTERNAL LEAKAGE 0 SUITABLE FOR

AIR, N<sub>2</sub>, He, O<sub>2</sub> & HYD, FLUID, H<sub>2</sub>O

OPERATING TORQUE 1.5 IN. LB TO 8 IN. LB

### VARIATIONS

PART NUMBER	BODY MATERIAL	END CONNECTIONS	
P-500	Cres 303	MS33656E4	
P-500A	Alum Alloy (6061-T6)	MS33656E4	
P1-500	Brass QQ-B-622 Comp. 221/2 Hard	MS33656E4	
P2-500	Alum Alloy (6061-T6)	MS33657E4	
P3-500	Alum Alloy (6061-T6)	MS33657E4	
P4-500	Alum Alloy (6061-T6)	MS33515E4	



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Non-destructive testing, such as individual flow test, testing with fluids other than compressed air or hydraulic oil, hydrostatic testing, x-ray, dye penetrant are not normal to our production processing, but are available at extra costs.