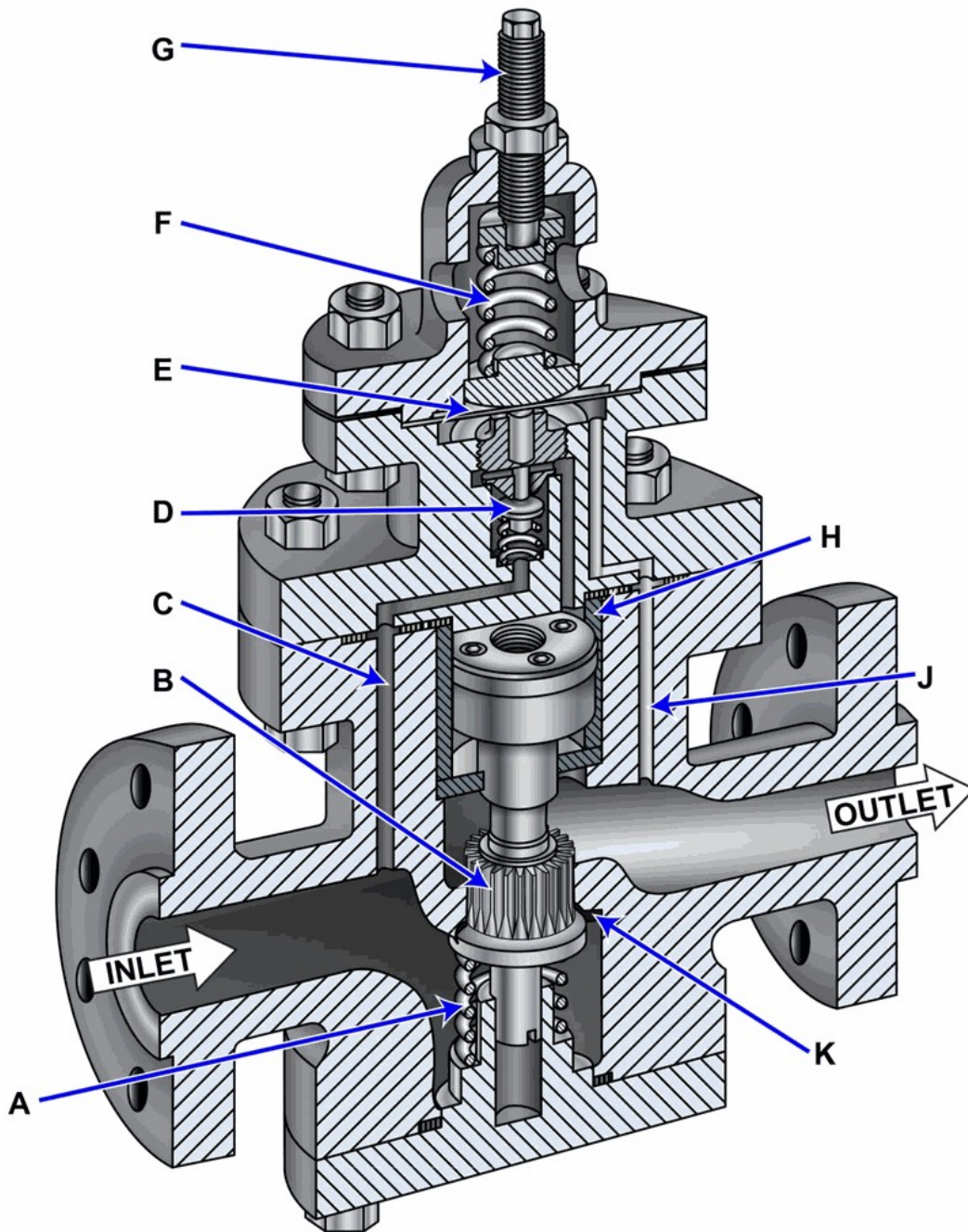


Demo PDF file. This file includes questions: 10 from 242. Full version of file looks the same as demo, but full version includes all questions. You may download file with all questions by link on bottom of this page

Q624 - General Subjects

1. In the illustrated self-contained, internal-pilot, piston-operated steam pressure-reducing valve, what statement is true concerning the pilot and main valves

GS-0044



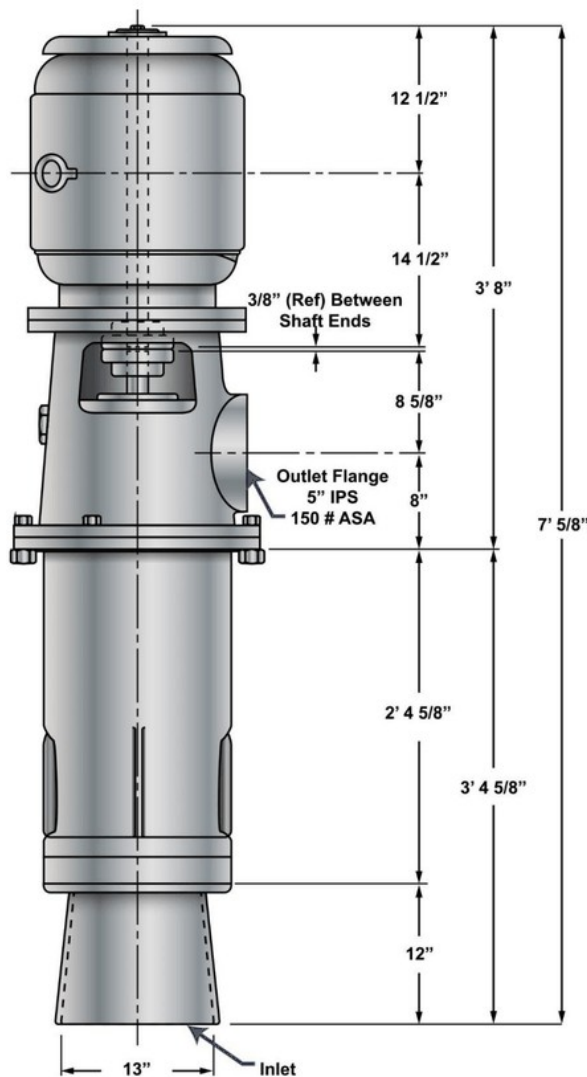
- The pilot valve is downward seating and the main valve is upward seating.
- The pilot valve is downward seating and the main valve is downward seating.
- **The pilot valve is upward seating and the main valve is upward seating.**
- The pilot valve is upward seating and the main valve is downward seating.

Note:

Both the pilot and main valves are upward seating because inlet steam acts on the underside of their discs.

2. What is the distance between the center of the discharge outlet and the top of the motor illustrated

GS-0011



MOTOR CHARACTERISTICS

Motor (A. C.)	Electro Dynamic
Rating H. P.	25
Speed R. P. M. (SYN.)	1200
Frame	365 VY
Type	TN
Volts	440
Cycles	60
Phase	3

PUMP CHARACTERISTICS

Capacity G. P. M.	400
Speed R. P. M.	1150
Suction Lift "HG	10
B, H, P. @ 1200	
SSU-75° F	24.9
Oil viscosity	
Range, SSU	74-7000
Viscosity Normal	
SSU @ 140° F	155
Discharge Normal	
PSIG	55
Fluid Handled,	
Lube Oil	2190 TEP.
Navy Specification	MIL-L-17331
Oil Temperature	40-180
Range ° F	

Illustration scale: 1" = 1'

- 34 5/8 inches
- 35 inches
- 35 5/8 inches
- **36 inches**

Note:

The correct answer is 36 inches. This distance is determined by summing the labeled vertical segments on the illustration, representing the total vertical distance from the discharge outlet centerline to the top of the motor.

3. For the various sizes of tubing and wall thickness used in a hydraulic system, the inside diameter can be determined if it is remembered that the inside diameter equals the outside diameter less _____.

- the wall thickness
- 1.5 times the wall thickness
- **2 times the wall thickness**
- 2.5 times the wall thickness

Note:

The inside diameter is calculated by subtracting twice the wall thickness from the outside diameter, accounting for the material on both sides of the tubing.

4. Before boring a blind tapered hole, a good shop practice to follow is to _____.

- drill to the small diameter of the taper
- bore a straight hole
- drill to the large diameter of the taper
- use a tapered reamer

Note:

To ensure accurate taper formation and prevent over-cutting, a blind tapered hole should first be drilled to the small diameter.

5. What class of screw thread is indicated with a machine screw described as 1/2-13 NC-2?

- 1/2
- 13
- NC
- 2

Note:

The designation 1/2-13 NC-2 indicates a thread class of 2; this value represents the class of fit.

6. One turn of the micrometer barrel will linearly move the spindle _____.

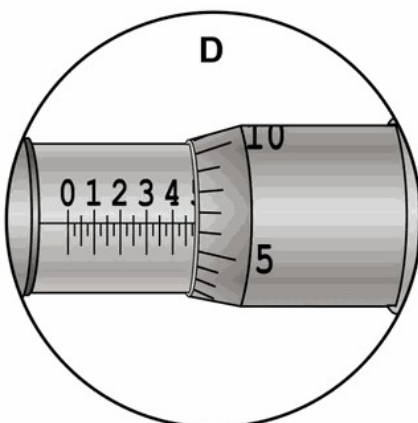
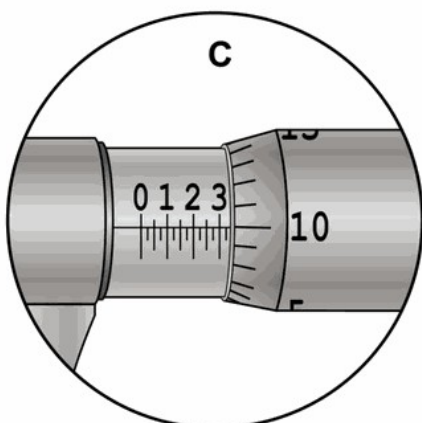
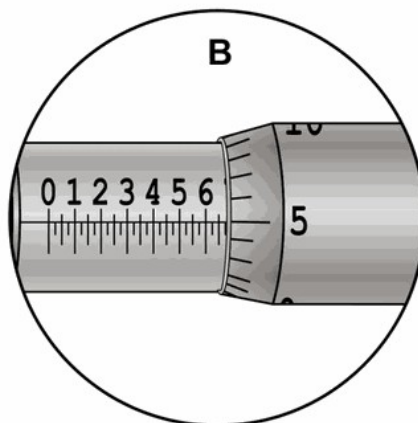
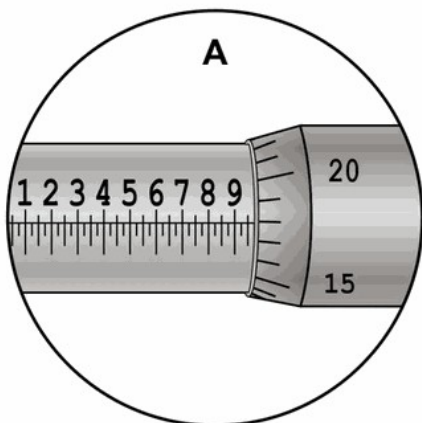
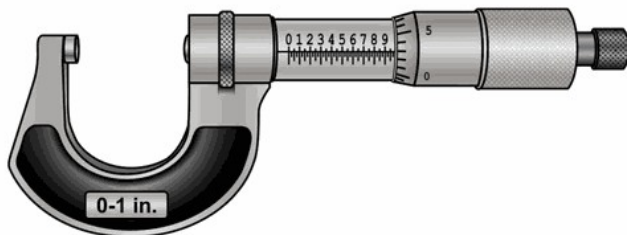
- 0.025 inch
- 0.110 inch
- 0.205 inch
- 0.250 inch

Note:

A standard inch micrometer advances the spindle 0.025 inch per full turn of the barrel.

7. The reading on the micrometer scale shown in figure "D" in the illustration is _____

GS-0081



- 0.4710 inch
- 0.4715 inch
- 0.4810 inch
- **0.4815 inch**

Note:

The micrometer reading is 0.4815 inch, determined by adding the sleeve value (0.480 inch) and the thimble/vernier alignment (0.0015 inch).

8. When using a one inch micrometer, a reading of 0.875 is equal to _____.

- 1/2 inch
- 5/8 inch
- **7/8 inch**
- 15/16 inch

Note:

A micrometer reading of 0.875 is equivalent to the fraction 7/8 inch because 0.875 represents 875 thousandths, which simplifies to 7/8.

9. When metal is tempered, it becomes _____.

- less brittle
- more brittle
- less tough
- harder

Note:

Tempering reduces brittleness in previously hardened metal by relieving internal stresses, increasing toughness, and slightly decreasing hardness.

10. Monel metal is an alloy composed mainly of _____.

- Nickel and copper
- Zinc and copper
- Copper and tin
- Bronze and tin

Note:

Monel is a nickel–copper alloy; therefore, choice A is correct. Monel's composition is primarily nickel and copper, with smaller amounts of other elements, resulting in high corrosion resistance. The other options describe different alloys such as brass (zinc and copper), bronze (copper and tin), and a combination of bronze and tin, which are not characteristic of Monel.
