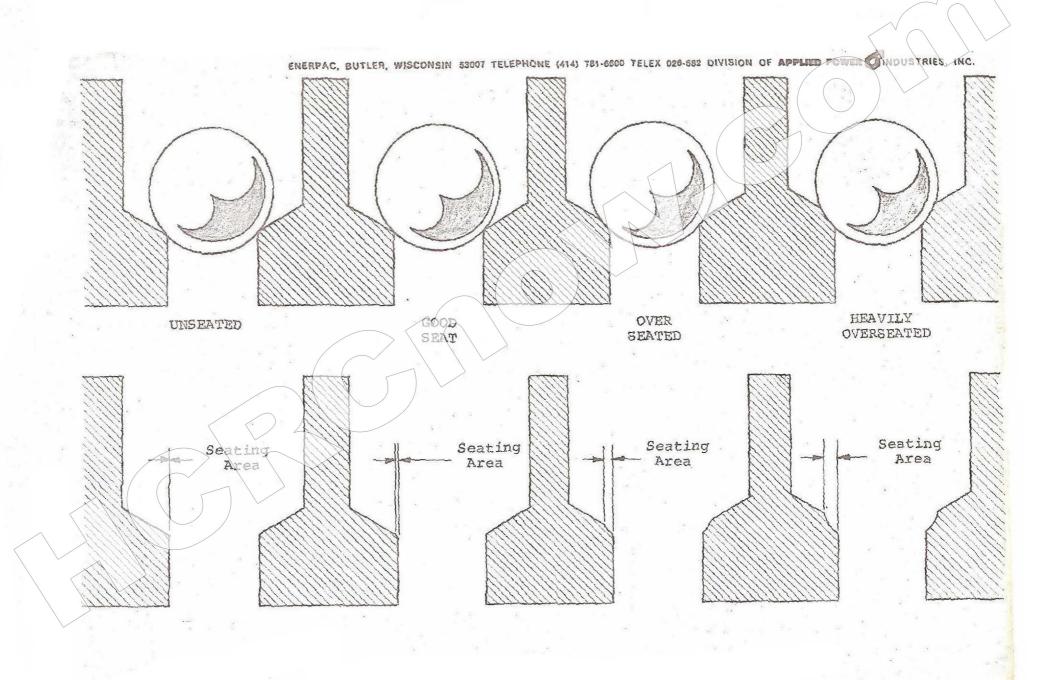
VALVE SEAT INFORMATION FROM ENERPAC



UNSEATED

APPEARANCE OF SEATING AREA

1. No chatter marks

2. No heavy swirls

3. No chips or burrs 4. No gouges

GOOD SEAT

APPEARANCE OF SEATING AREA

1. Seating area held to a minimum

2. No chatter marks

3. No heavy swirls 4. No chips or burrs

5. No gouges

6. Very fine shiny area

around seating area.

OVERSEATED

APPEARANCE OF SEATING AREA 1. Ruined by heavy seating

or re-seating 2. Large seating area visible

HEAVILY OVERSEATED

APPEARANCE OF SEATING AREA

Ruined by heavily overseating or by continuous heavy seating.

Extremely large seating are visible

When seating a ball in a seat - REMEMBER!!

Start with a good ball seat

Don't bound ball Tap hall so that a minimum seating area is obtained.

4. Don't let dirt or chips ruin the seat The ball seat should seal around the ball with the sharpest edge possible after tapping.

MOTES

The object of tapping the ball is to decrease any out of roundness at the seating area 7. It doesn't take much to seat a ball

8. Use common sense when using small balls or soft materials

9. Examine the first seating and avoid overseated conditions.

10. The ball seat is the heart of the pump or valve. A bad seat means a bad pump or valve. Bad seats are erratic and unreliable. Good seats make good pumps and valves.