

# Chapter 27 Valve And Seat Service

Find the words in the grid. Words can go across, down and in the two forward diagonals.

R M R X V B Q Y K X Y R F I N S E R T S E A T S T L P D D  
 T N B N M M T G T H R O A T I N G A N G L E F L X X G Z L  
 S T E L L I T E D V A R I A B L E R A T E S P R I N G S M  
 V H V C N D F I N I S H I N G S T O N E K L N K I T T E D  
 T A M K K V A L V E S P R I N G I N S E R T S D N O N Y V  
 R O L X Y D Q N X G R Y K L K Y L K G C P G L B L O D V A  
 Y J P V C T Z Q P L F R R J T N P N F M M E K I T M M Y L  
 H X Y P E C M M Z P O P P E T V A L V E W R P S L B V F V  
 L J K X I S F R B R K V G B X B T D V N T E G L T X K C E  
 T V G N V N P B B F M R F N W J N B O A L N B N O H K V G  
 P N R T G K G R R H R J J T G M X I E B I O M B T Z M A U  
 N O P G R R V A I T L L F B T N T S A H J N D Q A H R L I  
 T F S T C D B G N N M N P H M C E D G E T R L D L V I V D  
 L H Q I Y K N F H G G H G N I V N U V H R T M M I L N E E  
 W C E C T I I D R Y L I D R L A O L S A E L Z T N W T S N  
 L V R R U I G N T E E E F A P R A K W R T C G F D D E P P  
 M K A R M R V B S H E A V X K V C K P D A T F N I T G R G  
 X F T L H A Y E M T I R E L E O N M F S I A N P C Y R I C  
 D R M K V W L E R T A K O L L L M N T E N P B G A T A N N  
 K C M W D E T S R O T L G T D M M B N A E E Z G T P L G B  
 W L C X N S F E H Z T N L R A Y Q R Y T R R N D O P S S X  
 L L J V E T N L R O A A M E N T D V Y S D E W C R J E U L  
 K X R V X I T F O E C Z T F D M O W R T M D D L R X A R K  
 X M L L L N J T E A Y K F O R H D R V O P P T R U C T G V  
 R A N T Q T N R X J T B R K R J E J S N R I Q D N K W E C  
 V T T G X G H Z J W T Y B P L S T I N E N L K V O X Z Z N  
 Q T X X Z T J L F Z R H R G X V T B G S L O Y N U Y W R N  
 R Y F V V A L V E F A C E W Z R K L R H M T X G T L L F R  
 V A L V E F A C E A N G L E F G D B V B T S R P Q F K W R

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|--------------------------|-------------------|------------------------|-----------------------|
| Expandable pilots        | Locks             | Three angle valve job  | Valve guide           |
| Finishing stone          | Poppet valve      | Throating angle        | Valve seat            |
| Free rotators            | Positive rotators | Topping angle          | Valve spring          |
| Hard seat stones         | Retainer          | Total indicator runout | Valve spring inserts  |
| Inertia friction welding | Roughing stone    | Truing                 | Valve spring surge    |
| Insert seats             | Stellite          | Valve face             | Valve stem height     |
| Installed height         | Tapered pilots    | Valve face angle       | Variable rate springs |
| Integral seat            | Thermal shock     | Valve float            |                       |