

# Chapter 31

## Valve And Seat Service

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

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

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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	