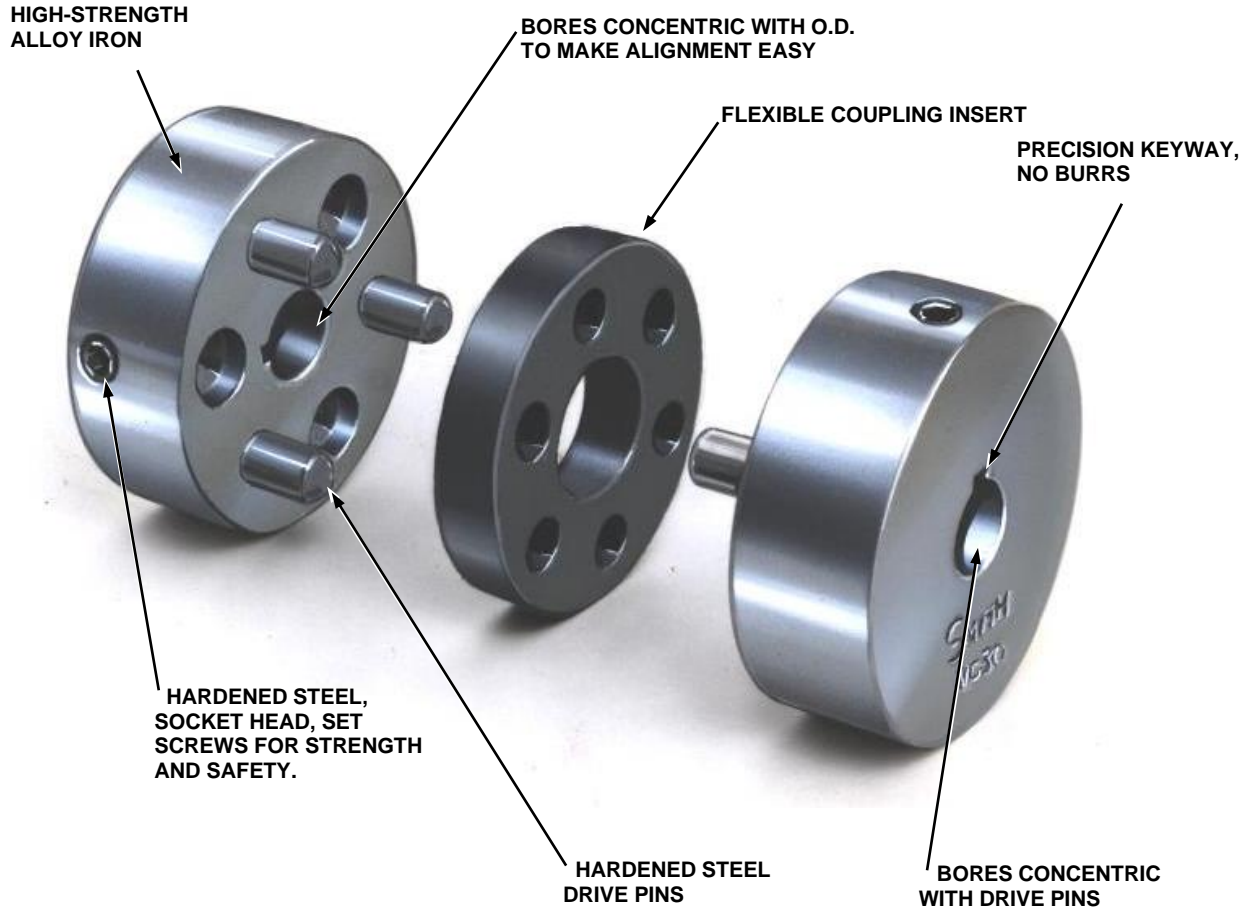




# SMITH PUMPS

## SMITH VC-SERIES FLEXIBLE DRIVE COUPLINGS



### MODEL "VC-30"

**THIS COUPLING WAS DESIGNED TO MATCH THE HIGH QUALITY AND LONG LIFE OF SMITH PUMPS.**

SEE BACK SIDE OF THIS SHEET FOR FURTHER DETAILS.



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## HOW TO ORDER SMITH FLEXIBLE DRIVE COUPLINGS

To order a new complete flexible drive coupling, it is not sufficient to give us the model number of the pump, since half of the coupling must fit the drive shaft of the electric motor or other drive device. The following data is absolutely necessary to determine the correct coupling:

- (1) Model number of the pump taken from the pump label plate.
- (2) Diameter of the motor shaft. (This is the measurement across the shaft, not around the shaft).
- (3) Horsepower of the motor, or other driving device. (This is stamped on the identification plate, usually abbreviated, "H.P.").
- (4) Motor, or other driving device speed. (This is stamped on the identification plate, usually abbreviated, "RPM").

TABLE TO SELECT CORRECT COUPLING MODEL AS RELATED TO HP AND RPM

<u>H.P. OF MOTOR</u>	<u>RPM OF MOTOR</u>	<u>COUPLING MODEL</u>	<u>H.P. OF MOTOR</u>	<u>RPM OF MOTOR</u>	<u>COUPLING MODEL</u>
1-1/2	1800	VC-30	7-1/2	1800	VC-40
	1200	VC-35		1200	VC-50
	900	VC-35		900	VC-50
2	1800	VC-35	10	1800	VC-50
	1200	VC-35		1200	VC-50
	900	VC-40		900	VC-50
3	1800	VC-35	15	1800	VC-50
	1200	VC-40		1200	VC-50
	900	VC-40		1800	VC-50
5	1800	VC-40	20	1800	VC-50
	1200	VC-40		FOR 50 CYCLE SPEEDS, MAKE 1500 EQUIVALENT TO 1800, 1000 = 1200, 750 = 900.	
	900	VC-50			

## HOW TO ORDER FLEXIBLE COUPLING INSERTS

The flexible coupling inserts are usually made of rubber. They are circular in shape, and contain a number of holes into which the drive pins of the coupling are inserted. Ordinarily, wear of flexible drive couplings is concentrated in the rubber, or Teflon® insert (indicated by the letter "T" in the Part No.) installed between the two metal halves of the coupling. However, if the insert is allowed to wear severely before it is replaced, the metal parts may also become worn. The following table gives information about inserts. The part numbers, approximate outside diameters in both millimeters and inches, and the number of holes for the drive pins, are listed. The outside diameter of a used insert can easily be measured, and the number of drive pin holes determined. Then, the required replacement insert can be found in the following table:

<u>PART NO.</u>	<u>OUTSIDE DIAMETER</u>		<u>NO. OF DRIVE PIN HOLES</u>
	<u>MILLIMETERS</u>	<u>INCHES</u>	
FD-50	112	4-3/8	10
FD-50T	112	4-3/8	10
FD-40	86	3-3/8	8
FD-40T	86	3-3/8	8
FD-35	74	2-7/8	6
FD-35T	74	2-7/8	6
FD-30	63	2-1/2	6
FD-30T	63	2-1/2	6
FD-20	46	1-13/16	4
FD-20T	46	1-13/16	4