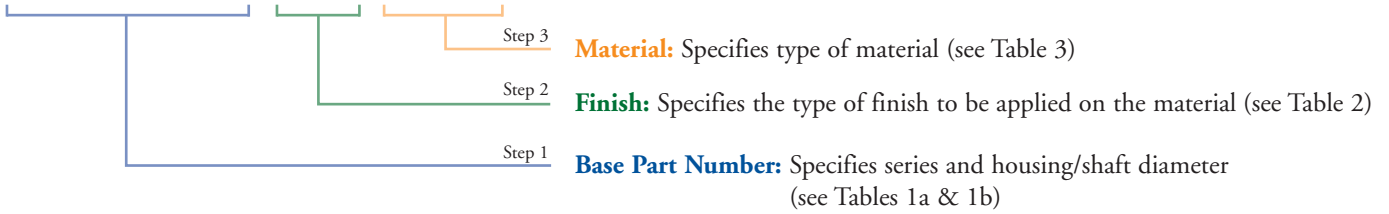


How To ORDER

SPECIFYING SMALLLEY PART NUMBERS

Smalley ring and spring part numbers consist of three steps. Please use the following guide to correctly identify your part number:

WHT-50-PA-S02



STEP 1: BASE PART NUMBERS

SELECT SERIES...

TABLE 1a: Retaining Ring Series

SERIES	# TURNS	INTERNAL	EXTERNAL
Light Duty	1	VH	VS
Medium Duty	2	WH	WS
Medium Heavy Duty	2 or 3	WHT	WST
Heavy Duty	2	WHM	WSM
Snap Ring	1	FHE	FSE
Aerospace*	2	EH	ES
DIN Series*	2	DNH	DNS
Snap Ring*	1	FH	FS
WaveRing	2	WHW	WSW

* Metric Series

TABLE 1b: Wave Spring Series

SERIES	PREFIX
Standard Single-Turn	SSR
Bearing Preload*	SSB
Narrow Section Single-Turn	SSR-N
Shim	SSRS
Crest-to-Crest	C
Crest-to-Crest with Shim End	CS
Wavo	RW

* Metric Series

THEN SPECIFY PART DIAMETER

See the product tables for a complete listing of available diameters in stock. Below are some base part number examples:

WH-100	1.000" Medium Duty Internal Ring
WSM-150	1.500" Heavy Duty External Ring
C150	1.500" Crest-to-Crest Wave Spring
CS125	1.250" Crest-to-Crest Wave Spring w/ Shim Ends
RW-0237	2.375" Wavo Spring

STEP 2: FINISH

To prevent corrosion, carbon steel has an oil dip finish. Stainless steel parts are vapor degreased and go through an ultrasonic cleaning process. To specify a special finish on retaining rings or wave springs add the appropriate suffix to the part number preceding the material suffix. For standard materials, there is no designation necessary.

TABLE 2: Finish

STANDARD		SPECIAL	
Finish	Designation	Finish	Designation
Carbon Steel - Oil Dip	None	Passivation	PA
Stainless Steel - Vapor Degrease & Ultrasonic Clean	None	Black Oxide	BA
		Phosphate Coat	PS
		Cadmium Plate	CD
		Vibratory Deburr	DV

Example: WH-100-**PA**-S02 1.000" Medium Duty Housing Ring, with **passivation** in 302 stainless steel

STEP 3: MATERIAL

To specify the material, add the appropriate designation below to the end of the part number.

TABLE 3: Material

STANDARD		SPECIAL	
Material	Designation	Material	Designation
Carbon Steel SAE 1070-1090	None	Inconel X-750	INX
302 Stainless Steel (Retaining Rings)	S02	A286	A86
316 Stainless Steel (Retaining Rings)	S16	Beryllium Copper	BEC
17/7 PH C/CH900 Stainless Steel (Wave Springs)	S17	Phosphor Bronze	PHB
		Elgiloy	LGY

Examples:

VH-50 0.500" Light Duty Housing Ring in **Carbon Steel**
 VS-100-**S02** 1.000" Light Duty Shaft Ring in **302 Stainless Steel**
 C050-M5-**INX** 0.500" Crest-to-Crest Wave Spring in **Inconel X-750**

Note: Custom wave springs can be manufactured in 302 & 316 stainless steel, retaining rings can be manufactured in 17-7 PH C/CH900 stainless steel upon request.

PACKAGING

Smalley has the flexibility to package retaining rings and wave springs using a variety of methods to simplify your assembly process. Standard packaging is based on the diameter. As a general rule for both retaining rings and wave springs:

- 1½" and under diameters are bulk packaged.
- 1½" and over diameters are generally tube (coin) packaged in lengths 10" to 18".

PLACING AN ORDER

Smalley customer service representatives are available to assist you and guide you through the ordering process. For standard catalog rings and springs, Smalley's customer service department can assist with pricing, ordering and delivery information. Contact Smalley customer service at:

P: 847.719.5900 F: 847.719.5999 E: sales@smalley.com