

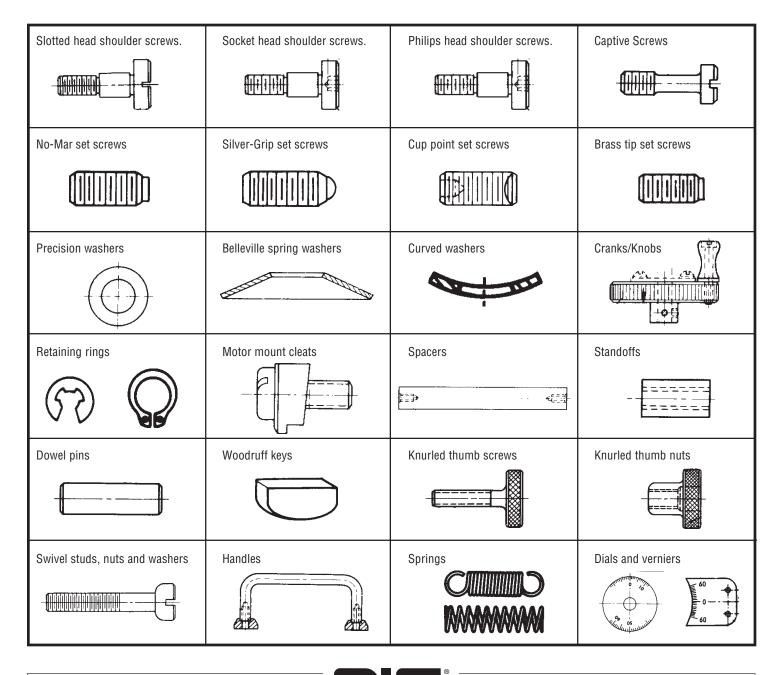
PRECISION HARDWARE

PIC Design offers an extensive line of precision Hardware which contains various items for fastening and/or locating of precision industrial components. The hardware is manufactured from Stainless Steel to the PIC high quality standards, in either inch or metric styles of thread, diameter and length.

The following pages have been included as a technical guide to aid the designer or engineer in selecting the appropriate screw type and size. The drill and tap data in inch for both the UNF and the UNC pieces,

selects the correct drill to be used for the appropriate tap. For the metric ISO thread, the correct drill is recommended for the thread size and pitch.

The screw head detail data for both inch and metric heads enables the designer to select the appropriate type of head required and to allow for the clearance of the heads.



8-1

METRIC RETAINING RINGS

All Dimensions In Millimeters Internal, External, External-E Ring Series

Shaft

Dia. (S)

4

5

6

8

10

12

G

3.8

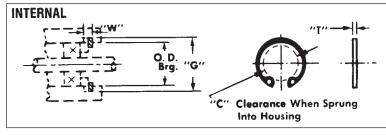
4.8

5.7

7.6

9.6

11.5



Groove Dims. Part 0.D. T C No. BRG. W (min.) G tol MRR1-2 10 10.4 +0.111.0 4.0 1.1 MRR1-3 1.0 48 11 11.4 +0.111.1 **MRR1-4** 13 13.6 +0.111.1 1.0 6.4 1.0 8.3 **MRR1-5** +0.11 1.1 15 15.7 **MRR1-6** 16 16.8 +0.11 1.1 1.0 9.2 20.0 +0.15 1.1 1.0 11.8 MRR1-7 19 1.0 14.6 **MRR1-8** 22 23.0 +0.151.1 **MRR1-9** 26 27.2 +0.211.3 1.2 17.8

W (min.)

0.5

0.7

0.8

0.9

1.1

1.1

Т

0.4

0.6

0.7

0.8

1.0

1.0

C

8.2

9.8

11.1

14.0

16.2

18.1

Groove Dims.

tol

-0.04

-0.04

-0.04

-0.06

-0.11

-0.11

Part

No.

MRR2-2

MRR2-3

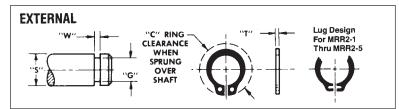
MRR2-4

MRR2-5

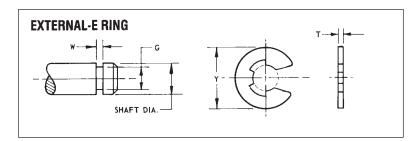
MRR2-6

MRR2-7

Material: Spring Steel



Material: Spring Steel



Shaft	Groove Dims.			Y	Т	Part	
Dia.	G	tol	W (min.)	(Fitted)	(max.)	No.	
2	1.2	-0.06	0.34	3.0	0.32	MRR3-1	
3	1.9	-0.06	0.54	4.5	0.52	MRR3-2	
4	2.3	-0.06	0.64	6.0	0.62	MRR3-3	
5	3.2	-0.07	0.64	7.0	0.62	MRR3-4	
6	4.0	-0.07	0.74	9.0	0.72	MRR3-5	
8	5.0	-0.07	0.74	11.0	0.72	MRR3-6	
10	7.0	-0.09	0.94	14.0	0.92	MRR3-7	
12	8.0	-0.09	1.05	16.0	1.03	MRR3-8	

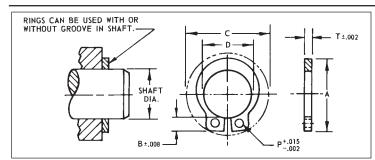
Material: Spring Steel

METRIC RETAINING RINGS KIT

Description of Contents	Number of Parts	Part No.
Retaining Rings, spring steel, zinc plated. Bearing, shaft and snap type for shaft sizes 3 to 5mm.	400	MAK8

RETAINING RINGS

Gripping External Series



Material: PH 15-7 MO Stainless Steel

www.pic-design.com	DESIGN
Interactive catalog = CAD = e-commerce	

Shaft Dia.	A (Ref.)	В	C	D	т	P Dia.	Part No.
.125	.268	.078	.33	.120	.025	.042	Z5-1
.187	.364	.097	.44	.181	.035	.051	Z5-2
.250	.437	.097	.49	.238	.035	.051	Z5-3
.375	.620	.141	.74	.354	.042	.078	Z5-4
.500	.768	.158	.90	.470	.050	.078	Z5-5