Arconic Fastening Systems
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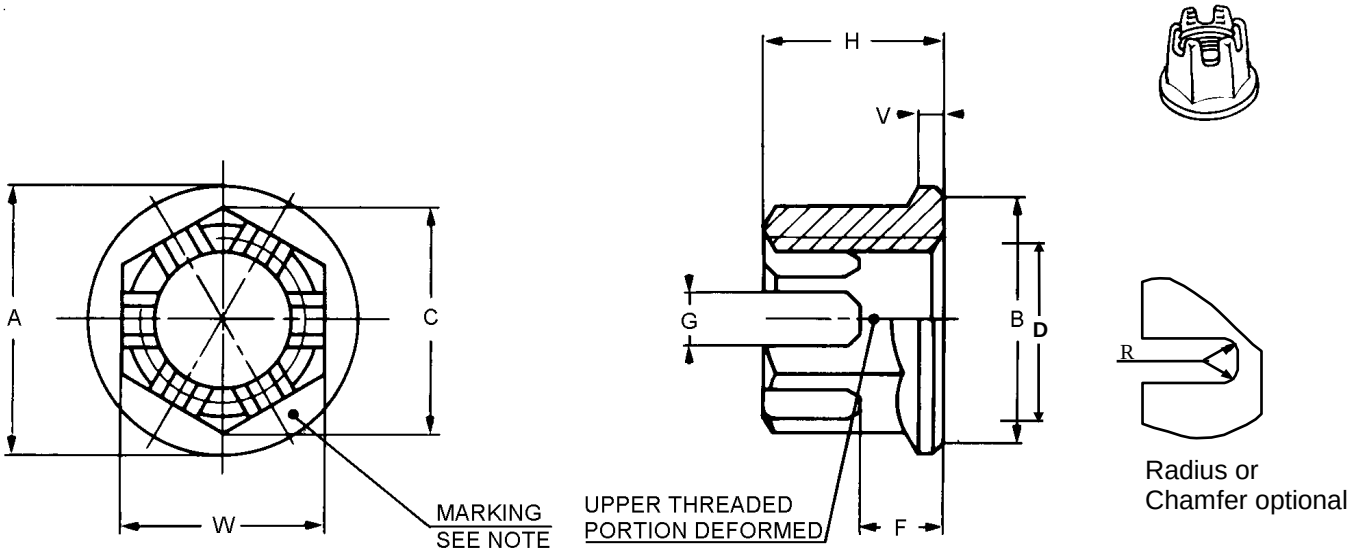

SIMMONDS PART NUMBER	THREAD SIZE UNJF-3B	A MAX.	B MIN.	C MIN.	D MAX.	F ±.016	G MAX.	G MIN.	H ±.015	R MAX.	V REF.	W MAX.	W MIN.	MINIMUM ULTIMATE TENSILE STRENGTH LBS.	APPROX WEIGHT LB/100
PHCR53x	.1900-32	.325	.291	.277	.220	.109	.065	.050	.250	.035	.025	.252	.243	2,460	.20
PHCR54x	.2500-28	.420	.386	.348	.280	.125	.100	.070	.281	.035	.025	.315	.306	4,580	.33
PHCR55x	.3125-24	.520	.482	.419	.342	.172	.100	.070	.328	.035	.055	.378	.367	7,390	.55
PHCR56x	.3750-24	.579	.539	.491	.405	.219	.155	.125	.406	.053	.070	.440	.430	11,450	.86
PHCR57x	.4375-20	.645	.600	.562	.467	.266	.155	.125	.453	.053	.070	.504	.494	15,450	1.15
PHCR58x	.5000-20	.770	.725	.633	.530	.359	.155	.125	.563	.053	.070	.566	.556	21,110	1.85
PHCR59x	.5625-18	.850	.815	.775	.592	.391	.186	.156	.609	.062	.080	.692	.680	26,810	3.20
PHCR510x	.6250-18	.910	.875	.846	.655	.469	.186	.156	.719	.062	.090	.755	.743	34,130	4.20
PHCR512x	.7500-16	1.130	1.095	.987	.785	.563	.186	.156	.813	.062	.100	.880	.868	50,020	5.85
PHCR514x	.8750-14	1.345	1.300	1.130	.910	.656	.186	.156	.906	.062	.120	1.006	.993	68,440	9.70
PHCR516x	1.0000-12	1.545	1.500	1.272	1.035	.750	.186	.156	1.000	.062	.120	1.130	1.118	90,000	13.50
PHCR518x	1.1250-12	1.745	1.700	1.414	1.160	.813	.186	.156	1.156	.062	.140	1.255	1.242	116,700	20.65
PHCR520x	1.2500-12	1.915	1.875	1.556	1.285	.875	.186	.156	1.250	.062	.140	1.383	1.364	147,940	25.00

Contact Arconic for the diameter/type in manufacturing

■ Dimensions in Inches

MATERIAL: A 286 (Z6NCT25) per AMS5731 or EN 2399.

FINISH:
800° F PHCR54 - A 286 Silver Plate, AMS2410.
450° F PHCR54M - A 286 Passivated, Dry Film Lubricant.
450 °F PHCR54CD – Cadmium plated per AMS-QQ-P-416 + Dry film lubricant.

MARKING: Parts marked with manufacturer's symbol (SD), plus letter ''C''.

PERFORMANCE: NASM25027, except ultimate tensile strength and locking torque values applicable for 5 cycles.
Code FP = Unit control for fluorescent penetrant inspection (ex.: PHCR510M-FP).

THREADS: In accordance with AS8879 before lubrication and coating.

APPLICATION: These nuts have been designed to replace AN320 castellated nuts on critical aircraft control linkage.
This design provides an increase in tensile strength while reducing weight substantially over similar parts.

DESIGNATION:

PHCR 5 12 M-FP

- PHCR — NUT TYPE
- 5 — MATERIAL CODE
- 12 — DIAMETER CODE
- M — SURFACE TREATMENT
- FP — CONTROL FLUORESCENT PENETRANT

NUT – REDUCED HEX LIGHT WEIGHT – CASTELLATED - SELF LOCKING 450°F	PHCR5xxx-UNJ