ROUND SECTION WIRE RINGS

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REVISED 09-04

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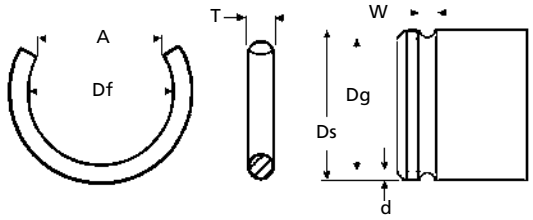
EXTERNAL (RADIAL)

MANUFACTURER CROSS-REFERENCE

INDEX PAGE 236.

Eaton	200 Series		
Arcon National	XRO		

OPEN STYLE



XRO	SHAFT		RING			GROOVE			WEIGHT	MATERIAL
	Decimal (Ds)	Fraction (Ds)	Free Inside Dia. (Df)	Wire Cross Section (T)	Gap (A)	Diameter (Dg)	Depth (d)	Width (W)	Lbs. per 100 Pieces	Spring Steel
XRO-411	.125	1/8	.110	.022	.097	.111	.007	.024	0.0030	
-412	.156	5/32	.140	.022	.123	.142	.007	.024	0.0040	
-413	.188	3/16	.172	.022	.152	.174	.007	.024	0.0050	
-414	.219	7/32	.202	.022	.178	.205	.007	.024	0.0060	
-415	.250	1/4	.230	.029	.203	.232	.009	.031	0.0100	
-4155	.281	9/32	.260	.029	.229	.263	.009	.031	0.0120	
-416	.312	5/16	.296	.022	.261	.298	.007	.024	0.0070	
-417			.288	.035	.254	.290	.011	.037	0.0180	
-418	.375	3/8	.353	.029	.322	.357	.009	.031	0.0140	
-419			.345	.043	.304	.349	.013	.045	0.0330	
-420	.438	7/16	.412	.035	.363	.415	.011	.037	0.0260	
-421			.402	.051	.355	.405	.016	.053	0.0530	
-422	.500	1/2	.468	.043	.412	.474	.013	.045	0.0430	
-423			.458	.059	.404	.464	.018	.061	0.0820	
-424	.562	9/16	.529	.045	.467	.534	.014	.047	0.0530	
-425			.518	.062	.457	.524	.019	.064	0.1020	
-426	.625	5/8	.587	.051	.518	.593	.016	.053	0.0750	
-427			.575	.071	.507	.581	.022	.073	0.1480	
-428	.688	11/16	.649	.051	.572	.655	.016	.053	0.0830	
-429			.637	.071	.562	.643	.022	.073	0.1680	
-430	.750	3/4	.706	.059	.623	.714	.018	.061	0.1210	
-431			.690	.085	.609	.698	.026	.087	0.2550	
-432	.812	13/16	.769	.059	.678	.776	.018	.061	0.1310	
-433			.753	.085	.664	.760	.026	.087	0.2760	
-434	.875	7/8	.823	.071	.726	.831	.022	.073	0.2050	
-435			.804	.100	.709	.813	.031	.102	0.4120	
-436	.938	15/16	.885	.071	.780	.893	.022	.073	0.2200	
-437			.867	.100	.764	.875	.031	.102	0.4310	
XRO-438	1.000	1	.938	.085	.827	.948	.026	.087	0.3450	

Free Inside Dia. (Df): +.000/-6%; Wire Cross Section (T): +/-.004; Gap (A): +.000/-6%; Diameter (Dg): +.003/-.000; Depth (d): +.003/-.000

Free Inside Dia. (Df): +.000/-5%; Wire Cross Section (T): +/-.002; Gap (A): +.000/-5%; Diameter (Dg): +.003/-.000; Depth (d): +.003

XRO

DESCRIPTION

Low clearance wire formed ring with limited range. Open gap style allows radial installation. Difficult to remove. Parts are sized for external shaft applications.

RADIAL ASSEMBLY

HOW TO IDENTIFY

1. Verify round cross section and open gap style.
2. Measure the shaft diameter (Ds).
3. Determine the wire cross section (T).
4. Find the part in the chart above.

GENERAL USE



COMMON

INSTALLATION TOOLS AVAILABLE AS A SPECIAL ORDER.

GROOVE INTERCHANGE
USE ANY OF THESE PARTS IN THE SAME SIZED GROOVE.

XRO ⟷ XRC (Page 86)

PERFORMANCE RESULTS VARY. YOUR RING SELECTION SHOULD BE MADE BASED ON INDIVIDUAL APPLICATION.

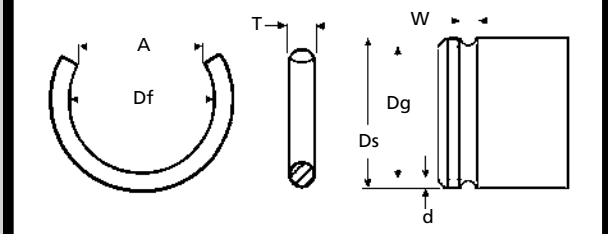
***XRO** CONTINUED NEXT PAGE.*

MOST SIZES AVAILABLE IMMEDIATELY • $2 LINE REQUESTED • CALL PLANT FOR QUANTITY DISCOUNTS

All manufacturer names and numbers are for identification purposes only. In no way are we implying that our parts were made by the manufacturers listed above.
Prices, materials, tolerances, and grades subject to change without notice.
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OPEN STYLE



EXTERNAL (RADIAL)

MANUFACTURER CROSS-REFERENCE

INDEX PAGE 236.

Eaton	200 Series	
Arcon National	XRO	



XRO

	SHAFT		RING					GROOVE				WEIGHT	MATERIAL
	Decimal (Ds)	Fraction (Ds)	Free Inside Dia. (Df)		Wire Cross Section (T)		Gap (A)		Diameter (Dg)		Depth (d)	Width (W)	Lbs. per 100 Pieces	Spring Steel
XRO-439	1.000	1	.917	+.000/-5%	.118	+/-.002	.809	+.000/-5%	.926	+/-.003	.037	.120	0.6570	
-440	1.063	1-1/16	1.000	+.000/-4%	.085		.882		1.010		.026	.087	0.4500	
-441			.979		.118		.863		.988		.037	.120	0.6960	
-442	1.125	1-1/8	1.051		.100		.927		1.063		.031	.102	0.5250	
-443			1.034		.130		.912		1.045		.040	.132	0.8970	
-444	1.188	1-3/16	1.114		.100		.983		1.125		.031	.102	0.5540	
-445			1.096		.130		.967		1.107		.040	.132	0.9450	
-446	1.250	1-1/4	1.164		.118		1.027		1.176		.037	.120	0.7770	
-447			1.150		.140		1.014		1.162		.044	.142	1.1530	
-448	1.312	1-5/16	1.226		.118		1.081		1.238		.037	.120	0.8530	
-449			1.212		.140		1.069		1.224		.044	.142	1.2080	
-450	1.375	1-3/8	1.281		.130		1.130		1.295		.040	.132	1.0870	
-451			1.264		.156		1.115		1.277		.049	.158	1.5750	
-452	1.438	1-7/16	1.344		.130		1.185		1.357		.040	.132	1.1360	
-453			1.326		.156		1.170		1.339		.049	.158	1.6430	
-454	1.500	1-1/2	1.398		.140		1.233		1.412		.044	.142	1.3750	
-455			1.378		.172		1.215		1.392		.054	.174	2.0910	
-456	1.625	1-5/8	1.522		.140		1.342		1.537		.044	.142	1.4850	
-457			1.502		.172		1.325		1.517		.054	.174	2.2580	
-458	1.750	1-3/4	1.626		.172		1.434		1.642		.054	.174	2.4250	
-459			1.608		.203		1.418		1.624		.063	.205	3.4040	
-460	2.000	2	1.855		.203		1.636		1.874	+/-.004	.063	.205	3.8670	
-461			1.837		.232		1.620		1.856		.072	.234	5.0970	
-462	2.250	2-1/4	2.103		.203		1.855		2.124		.063	.205	4.3340	
-463			2.085		.232		1.839		2.106		.072	.234	5.6880	
-464	2.500	2-1/2	2.332		.232		2.057		2.356		.072	.234	6.2890	
-465			2.321		.250		2.047		2.344		.078	.252	7.3220	
-466	3.000	3	2.827		.232		2.494		2.856		.072	.234	7.5090	
XRO-467			2.816		.250		2.483		2.844		.078	.252	8.7320	

XRO

RADIAL ASSEMBLY

DESCRIPTION

Low clearance wire formed ring with limited range. Open gap style allows radial installation. Difficult to remove. Parts are sized for external shaft applications.

HOW TO IDENTIFY

1. Verify round cross section and open gap style.
2. Measure the shaft diameter (Ds).
3. Determine the wire cross section (T).
4. Find the part in the chart above.

GENERAL USE



COMMON

GROOVE INTERCHANGE
USE ANY OF THESE PARTS IN THE SAME SIZED GROOVE.

XRO ⟷ XRC (Page 86)

AFTER INSTALLATION RING WILL NOT NECESSARILY MAINTAIN CONTACT IN GROOVE DUE TO UNEVEN STRESSES.

PERFORMANCE RESULTS VARY. YOUR RING SELECTION SHOULD BE MADE BASED ON INDIVIDUAL APPLICATION.

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