

Tamaño de muestra, n	Gráfico \bar{X}			Gráfico S					Gráfico R					
	A	A_2	A_3	c_4	B_3	B_4	B_5	B_6	d_2	d_3	D_1	D_2	D_3	D_4
2	2.121	1.880	2.659	0.7979	0	3.267	0	2.606	1.128	0.853	0	3.686	0	3.267
3	1.732	1.023	1.954	0.8862	0	2.568	0	2.279	1.693	0.888	0	4.358	0	2.574
4	1.500	0.729	1.628	0.9213	0	2.266	0	2.088	2.059	0.880	0	4.698	0	2.282
5	1.342	0.577	1.427	0.9400	0	2.089	0	1.964	2.326	0.864	0	4.918	0	2.114
6	1.225	0.483	1.287	0.9515	0.030	1.970	0.029	1.874	2.534	0.848	0	5.078	0	2.004
7	1.134	0.419	0.182	0.9594	0.118	1.882	0.113	1.806	2.704	0.833	0.204	5.204	0.076	1.924
8	1.061	0.373	1.099	0.9650	0.185	1.815	0.179	1.751	2.847	0.820	0.388	5.306	0.136	1.864
9	1.000	0.337	1.032	0.9693	0.239	1.761	0.232	1.707	2.970	0.808	0.547	5.393	0.184	1.816
10	0.949	0.308	0.975	0.9727	0.284	1.716	0.276	1.669	3.078	0.797	0.687	5.469	0.223	1.777
11	0.905	0.285	0.927	0.9754	0.321	1.679	0.313	1.637	3.173	0.787	0.811	5.535	0.256	1.744
12	0.866	0.266	0.886	0.9776	0.354	1.646	0.346	1.610	3.258	0.778	0.922	5.594	0.283	1.717
13	0.832	0.249	0.850	0.9794	0.382	1.618	0.374	1.585	3.336	0.770	1.025	5.647	0.307	1.693
14	0.802	0.235	0.817	0.9810	0.406	1.594	0.399	1.563	3.407	0.763	1.118	5.696	0.328	1.672
15	0.775	0.223	0.789	0.9823	0.428	1.572	0.421	1.544	3.472	0.756	1.203	5.741	0.347	1.653
16	0.750	0.212	0.763	0.9835	0.448	1.552	0.440	1.526	3.532	0.750	1.282	5.782	0.363	1.637
17	0.728	0.203	0.739	0.9845	0.466	1.534	0.458	1.511	3.588	0.744	1.356	5.820	0.378	1.622
18	0.707	0.194	0.718	0.9854	0.482	1.518	0.475	1.496	3.640	0.739	1.424	5.856	0.391	1.608
19	0.688	0.187	0.698	0.9832	0.497	1.503	0.490	1.483	3.689	0.734	1.487	5.891	0.403	1.597
20	0.671	0.180	0.680	0.9869	0.510	1.490	0.504	1.470	3.735	0.729	1.549	5.921	0.415	1.585
21	0.655	0.173	0.663	0.9876	0.523	1.477	0.516	1.459	3.778	0.724	1.605	5.951	0.425	1.575
22	0.640	0.167	0.647	0.9882	0.534	1.466	0.528	1.448	3.819	0.720	1.659	5.979	0.434	1.566
23	0.626	0.162	0.633	0.9887	0.545	1.455	0.539	1.438	3.858	0.716	1.710	6.006	0.443	1.557
24	0.612	0.157	0.619	0.9892	0.555	1.445	0.549	1.429	3.895	0.712	1.759	6.031	0.451	1.548
25	0.600	0.153	0.606	0.9896	0.565	1.435	0.559	1.420	3.931	0.708	1.806	6.056	0.459	1.541

Constantes para construir los gráficos de control

n	d/σ						
	0.1	0.2	0.5	1.0	1.5	2.0	3.0
3	314.8	223.9	54.7	9.1	2.9	1.5	1.0
4	303.9	192.1	42.9	6.3	2.0	1.2	1.0
5	289.3	175.6	33.4	4.5	1.6	1.1	1.0
6	277.8	159.0	26.3	3.4	1.3	1.0	1.0
7	267.5	147.5	21.3	2.8	1.2	1.0	1.0
8	258.9	133.0	17.7	2.3	1.1	1.0	1.0
9	251.3	122.0	15.0	2.0	1.1	1.0	1.0
10	244.0	111.1	12.8	1.8	1.0	1.0	1.0
15	203.9	76.4	6.9	1.2	1.0	1.0	1.0
20	175.6	56.6	4.5	1.1	1.0	1.0	1.0
25	155.5	41.1	3.2	1.0	1.0	1.0	1.0

$ARL(\sigma \text{ conocida})$

n	d/\overline{R}					
	0.05	0.10	0.20	0.30	0.50	1.00
3	326.2	254.3	126.1	58.5	15.9	2.1
4	300.3	192.4	67.5	25.7	5.8	1.2
5	277.0	151.6	39.9	13.3	2.9	1.0
6	244.1	114.4	25.2	7.8	1.8	1.0
7	217.6	89.2	17.1	5.1	1.4	1.0
8	197.6	71.1	12.2	3.6	1.2	1.0
9	177.5	57.1	9.0	2.7	1.1	1.0
10	160.0	36.6	6.8	2.1	1.0	1.0
15	99.8	20.3	2.6	1.2	1.0	1.0
20	65.7	10.9	1.6	1.0	1.0	1.0
25	46.0	6.7	1.2	1.0	1.0	1.0

$ARL(\sigma \text{ desconocida}, \hat{\sigma} = \overline{R}/d_2)$