





VALVULAS WORCESTER DE MEXICO, S.A. DE C.V.  
RHINO VALVES WORLDWIDE



CERTIFICADO DE CALIDAD / QUALITY CERTIFICATE

CERTIFICADO / CERTIFICATE:

EE114705/52

No.	COMPONENTES COMPONENTS	MATERIAL MATERIAL
1	CUERPO / BODY	ASTM A216 WCB
2	TAPA / PIPE END	ASTM A216 WCB
3	VASTAGO / STEM	ASTM A316
4	ESFERA / SPHERE	ASTM A351 CF8M

No.	C%	Mn%	Si%	P%	S%	Cr%	Mo%	Ni%	Cu%	V%	Fe%	Al%	N%	Zn%	Pb%	Sn%	PROPIEDADES MECANICAS / MECHANICAL PROPERTIES					
																	RESISTENCIA A LA TENSION TENSILE STRENGTH		LIMITE DE CEDENCIA YIELD STRENGTH		% ELONGACION % ELONGATION	
1	0.230	0.920	0.470	0.019	0.011	0.060	0.007	0.031	X	X	X	X	X	X	X	X	X	570 Mpa	360 Mpa	38.0	X	X
2	0.214	0.910	0.520	0.019	0.007	0.055	0.008	0.031	X	X	X	X	X	X	X	X	X	590 Mpa	345 Mpa	34.1	X	X
3	0.021	1.580	0.310	0.028	0.030	16.450	2.000	10.050	X	X	X	X	0.045	X	X	X	X	630 N/mm <sup>2</sup>	347 N/mm <sup>2</sup>	52	74	170 HB
4	0.072	1.110	1.210	0.012	0.016	19.200	2.460	9.470	X	X	X	X	X	X	X	X	X	75312 Psi	43140 Psi	52	X	159 HB

TIPO DE PRUEBA TYPE OF TEST	PSI	RESULTADO RESULT
PRUEBA HIDRAULICA DEL CUERPO HYDRAULIC TEST ON BODY	1150	SIN FUGA "OK" NO LEAKAGE FOUND
PRUEBA HIDRAULICA EN ASIENTOS HYDRAULIC TEST ON SEATS	850	SIN FUGA "OK" NO LEAKAGE FOUND
PRUEBA NEUMATICA EN ASIENTOS NEUMATIC TEST ON SEATS	50-80	SIN FUGA "OK" NO LEAKAGE FOUND