



Industrial de Valvulas, S.A de C.V.  
 Av. de La Industria Lote 16 Fracc. Industrial El Trebol  
 Tepic, Jalisco, Estado de Mexico C.P. 54600

(Numero) Number 2112/2007  
 (Fecha) Date 27/09/2007

## QUALITY ASSURANCE CERTIFICATE OF COMPLIANCE

### ASEGURAMIENTO DE CALIDAD CERTIFICADO DE CUMPLIMIENTO

WE CERTIFY THAT THE PRODUCT LISTED BELOW WAS DESIGNED, MANUFACTURED AND TESTED ACCORDING TO OUR QUALITY SYSTEM AND REQUIREMENTS GIVEN IN ONE OR MORE OF THE FOLLOWING STANDARDS:  
 (CERTIFICAMOS QUE EL PRODUCTO LISTADO ABAJO FUE DISEÑADO, FABRICADO Y PRUBADO DE ACUERDO CON NUESTRO SISTEMA DE CALIDAD Y CON REQUISITOS ESTABLECIDOS EN UNO O MAS DE LOS SIGUIENTES ESTANDARES)

- API 598 - VALVE INSPECTION AND TESTING
- API 599 - METAL PLUG VALVES - FLANGED, THREADED AND WELDING
- ANSI B16-10 - FACE TO FACE AND END TO END DIMENSIONS OF VALVES
- ANSI B16-34 - VALVES - FLANGED, THREADED AND WELDING ENDS
- MSS-SP61 - PRESSURE TESTING OF STEEL VALVES
- API 6D - PIPELINE VALVES - GATE, PLUG, BALL ANF CHECK
- API 600 - STEEL GATE VALVES, FLANGED AND WELDING ENDS
- ANSI B16-11 - FORGED FITTINGS, SOCKET - WELDING AND THREADED
- API 602 - COMPACT STEEL GATE VALVES - FLANGED, THREADED, WELDING AND EXTENDED - BODY ENDS

**Part No. BGSB156F08AAB**  
 (Codigo)  
**Description VG 150 5520SW UT A105**  
 Description FORGED STEEL GLOBE VALVE  
 (VALVULA GLOBO DE ACERO FORJADO)  
 830000S

<b>PRESSURE TEST</b> (PRUBAS DE PRESION)	<b>SHELL</b> (CASCO)	<b>BACK</b> (SEAL)	<b>SIDE</b> (LADO)
<b>HYDROSTATIC (PSD)</b> (HIDROSTATICA)	2970	2970	2175
<b>PNEUMATIC (PSD)</b> (NEUMATICA)			80
			N A

Invoice(Factura) 86264 Item(Partida) 8  
 Qty(Cantidad) 20

### CHEMICAL COMPOSITION (%) COMPOSICIÓN QUIMICA (%)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	W	TENS	YIELD	ELG	RED	BHN
<b>BODY</b> CUERPO	N70	ASTM A-105N	0.200	0.860	0.008	0.008	0.290	0.080	0.100	0.030	0.270	0.003		83.80	55.60	27	56	149
<b>YOKE</b> YUGO	N70	ASTM A-105N	0.200	0.860	0.008	0.008	0.290	0.080	0.100	0.030	0.270	0.003		83.80	55.60	27	56	149

### MECHANICAL TESTS (PROP. MECANICAS)

ITEM (PARTE)	HEAT No. (COLADA)	MATERIAL (ASTM)	TENS	YIELD	ELG	RED	BHN
<b>BODY</b> CUERPO	N70	ASTM A-105N	KPSI CVN@	KPSI 1ST	% 2ND	% 3RD	AVG
<b>YOKE</b> YUGO	N70	ASTM A-105N	83.80	55.60	27	56	149

FAC10-21 REV. 2\*

CERTIFICADO POR:  
 ASEGURAMIENTO DE CALIDAD

CERTIFIED BY:  
 QUALITY ASSURANCE

Sandra Ruiz