





SKU: BX4108

-  Series 83 Antistatic and Fire-Safe Ball Valve
-  Series 83 Antistatische und Fire-Safe -Kugelhahn
-  Serie 83 antiestática y válvula de bola de Fuego -Safe
-  Série 83 antistatique et Fire-Safe Ball Valve

Valves<sup>™</sup>  
ONLINE

- 1/4 " - 2 1/2" Heavy Duty Fire Tested Ball Valve
- 1/4 " - 2 1/2" Heavy Duty Feuer geprüft Kugelhahn
- 1/4 " - 2 1/2" Válvula de bola de fuego Heavy Duty Probado
- 1/4 " - 2 1/2" Heavy Duty feu Testé Ball Valve

FIRE SAFE AND ANTI-STATIC  
API 607 4<sup>th</sup> Edition



- **3 Piece Encapsulated Heavy Duty Ball Valve**
- **Body in Carbon and Stainless Steel**
- **Full or Reduced Bore**
- **Pressure Rating up to 2000 PSI (see Chart)**
- **Fire-Safe and Antistatic API 607 4<sup>th</sup> Edition**

### Description

Series 83 Fire tested to API 607 4<sup>th</sup> Edition, heavy duty, 3 piece ball valve. Full or reduced bore in both carbon and stainless steel body. This valve has a fire-safe certificate by SwRI (southwest research institute TX USA), TUV (Germany) and the latest API 607 4<sup>th</sup> Edition, for the most severe test, reflecting the conditions of a fire in the field, offering tremendous advantages in the Oil and Gas, Refining and Chemical Industries. Fitted with Glass filled PTFE seats and Graphite seals. The valve has a unique encapsulated body bolt design. A Lockable lever is supplied as standard for manual operation. Ends come in either BSP, NPT, Socket Weld and Butt weld (SCHD40)

### APPROVALS

API 607REV 4, TA-Luft, CE



#### Description

Series 83 is the finest quality, high performance ball valve on the market. The valve is Fire-Safe and Antistatic. Fully maintainable and offered in full or reduced bore with a choice of carbon or stainless steel body material. Available in BSP, NPT, Socket weld and Butt weld (SCHD 40) it is supplied with a latch locking lever. Seats are Glass filled RTFE and seals carbon graphite.

¼" - 1" - 2000 PSI  
1¼" - 2" - 1500 PSI  
2½" - 1000 PSI



#### Beschreibung

Series 83 ist die beste Qualität, hohe Leistung Kugelventil auf dem Markt. Das Ventil ist Fire-Safe und antistatisch. Voll wartbar und in voller oder reduzierter Bohrung mit einer Auswahl von Kohlenstoff oder Stahlkörper Material Edelstahl angeboten. Erhältlich in BSP, NPT, Socket Schweißnaht und Anschweißenden (SCHD 40) ist mit einem Riegel Verriegelungshebel geliefert. Sitze sind Glas gefüllt RTFE und dichtet Kohlegraphit.

¼" - 1" - 2000 psi  
1¼" - 2" - 1500 psi  
2½" - 1000 psi



#### Descripción

Serie 83 es la calidad, válvula de bola de alto rendimiento mejor en el mercado. La válvula es el Fuego -Safe y antiestático. Totalmente mantenible y se ofrece en paso total o reducido con una opción de carbono o material del cuerpo de acero inoxidable. Disponible en BSP, NPT, soldadura del zócalo y de soldadura a tope (SCHD 40) que se suministra con una palanca de bloqueo del pestillo. Los asientos son de cristal llena RTFE y sella el grafito de carbono.





¼" - 1" - 2000 PSI  
1¼" - 2" - 1500 PSI  
2½" - 1000 PSI



#### Description

Série 83 est la plus belle qualité, haute performance vanne à boisseau sphérique sur le marché. La vanne est Fire-Safe et antistatique. Entièrement maintenable et offert en passage intégral ou réduit avec un choix de carbone ou en acier inoxydable matériau du corps en acier. Disponible en BSP, NPT, Socket soudure et soudure en bout (SCHD 40) Il est fourni avec un levier de verrouillage de verrou. Les places sont en verre rempli RTFE et scelle le graphite de carbone.

¼" - 1" - 2000 PSI  
1¼" - 2" - 1500 PSI  
2½" - 1000 PSI

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## Mars FSAS Series 83 Ball Valve

- **3 Piece Encapsulated Heavy Duty Ball Valve**
- **Body in Carbon and Stainless Steel**
- **Full or Reduced Bore**
- **Pressure Rating up to 2000 PSI (see Chart)**
- **Fire-Safe and Antistatic API 607 4<sup>th</sup> Edition**

The Mars Series 83 is a three piece heavy duty ball valve with fully encapsulated body bolts. Supplied in either stainless or carbon steel, full or reduced bore.

Technical and Parts List			
No.	Part Name	Material	Qty
1	Body	ASTM A351 Gr.CF8M	1
2	End Cap	ASTM A351 Gr.CF8M	2
3	Ball	SUS316	1
4	Stem	SUS316	1
5	Stem Nut	SUS304	1
6	Belleville washer	SUS301	1
7	Handle	SUS304	1
8	Ball Seat	Reinforced PTFE	2
9	Gland	SUS304	1
10	V-Ring Packing	MG1241	1
11	Stem Seal	Reinforced PTFE	1
12	Lock Saddle	SUS304	1

Specification	
Pressure range	1/4" to 1" 2000 PSI 1 1/4" to 2 1/2" 1500 PSI
Size	1/4" to 2" Full Bore, 1/2" to 2 1/2" Reduced Bore
Temperature range	minus 20° to + 200° (see graph)
Movement	90 deg turn
Cycle life	1,000,000 operations
Standard Approvals	Fire safe certified to API607 (4th edition) Antistatic PED Approval, ANSI B16.34, Test to EN10204
Options	TA-Luft, NACE MR-0175,

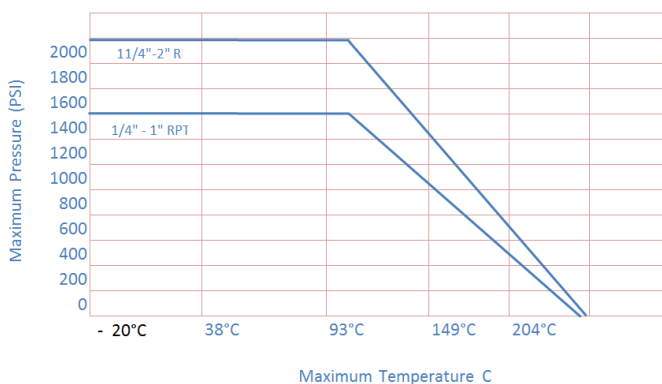
### End connection Options

Socket Weld  
Butt Weld (sch40)  
NPT

### Options

Stainless Steel filled PTFE seats  
V Sector Balls

Seat Rating Chart Pressure / Temperature







ATEX



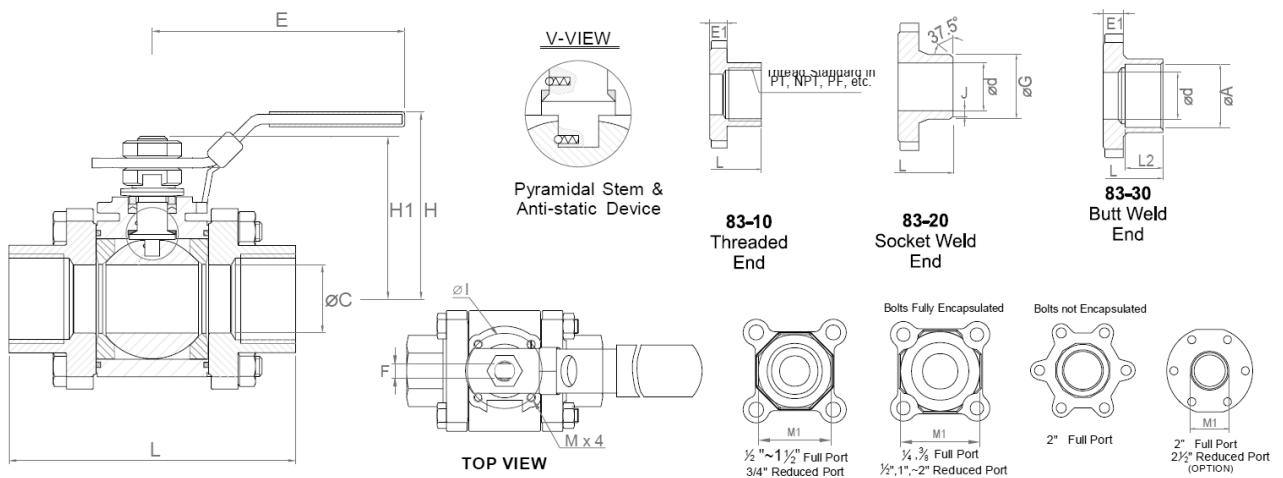
FIRE SAFE  
TESTED  
API 607 REV. 4

II 2 GD ATEX 94/9/EC

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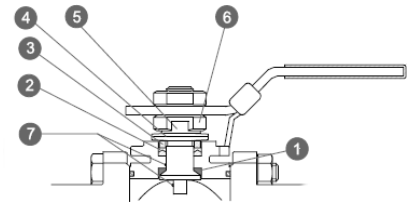
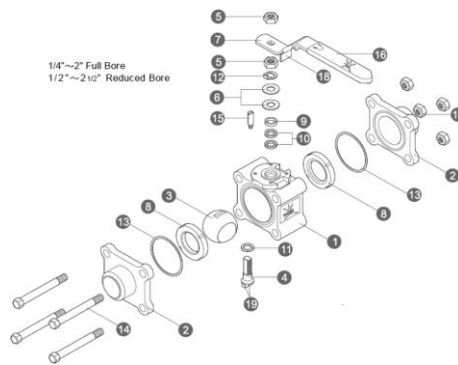


Dimensions Full Bore							Weight Kg
Size	C	E	H	H1	L	W	
1/4"	10	134	63.8	37	64.8	0.8	0.68
3/8"	10	134	63.8	37	64.8	0.8	0.68
1/2"	15	134	72	45.6	72.5	0.81	0.83
3/4"	20	134	76.4	51.4	85.4	1.27	1.37
1"	25	170	83	61.2	105.3	1.94	2.05
1 1/4"	32	170	88	64.2	111	2.65	2.74
1 1/2"	38	207	104.2	79	127.3	3.75	3.99
2"	50	207	121.7	295	142 R145	5.43	5.83

Dimensions Red. Bore							Weight Kg
Size	C	E	H	H1	L	W	
1/4"	Use Full Bore						
3/8"							
1/2"	10	134	64.3	37.2	64.8	0.65	0.68
3/4"	15	134	71.2	45.1	72.5	1	0.86
1"	20	134	76	51.1	85.4	1.4	1.43
1 1/4"	25	170	82.3	60.6	105.3	2.1	1.97
1 1/2"	32	170	87.3	64.3	111	3	2.77
2"	38	207	103.6	77.5	127.3	4.2	3.95
2 1/2"	50	207	121.6	95.5	145	4.2	3.95

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## Mars FSAS Series 83 Ball Valve



### 1. PYRAMIDAL STEM WITH STEM SEAL

First stage of defense against leakage. The 45 degree slope of the stem accompany by the stem seal effectively blocks all leak path from forming during rotation.

### 2. V-RING STEM PACKING

Second stage of defense against leakage. Triple layers of V-Ring Chevron packing expands side ways as it is being compressed, blocking all air pockets thus preventing leak path. The grinding effect of metal to PTFE contact.

### 3. GLAND

Made of stainless steel, equally distributes the compressive force on the packing and the seal.

### 4. BELLEVILLE WASHER

Release stored compressive energy for automatic compensation of seals due to wear and tear fluctuation of temperature and pressure.

### 5. LOCK SADDLE

Stabilizes the stem nut to keep it from loosening.

### 6. STEM NUT

Compress the entire stem system to enable blocking of leakage.

### 7. ANTI-STATIC DEVICE

Standard applied between stem and ball, stem and body.

Breakaway Torque and Cv (G.P.M)					
Valve Size		Break Away Torque (Nm)		Cv (G.P.M)	
Size	DN	Full Bore	Red Bore	Full Bore	Red Bore
1/4"	8	7	-	8	-
3/8"	10	7	-	8	-
1/2"	15	8	7	15	8
3/4"	20	10	8	34	15
1"	25	14	10	56	34
1 1/4"	32	23	14	85	56
1 1/2"	40	31	23	125	85
2"	50	46	31	250	125

Series 83 Heavy Duty Three Piece Ball Valves	
Construction	3 Piece In-Line Swing Out Design
Pressure rating	2000 PSI Max
Valve Material	Standard: ASTM A351 Gr. CF8M / DIN 1.4408
Seat Material	Standard: R-TFE 25% Graphite Seal
Inspection and Test	API 598, BS6755 Part 1
Compliance Standards	ANSI B16.34, B16.25, ANSI B1.20, API 6D,
Fire - Safe	API 598, API 607, ISO 5209, ISO 5211, ISO 5752
Options	NACE MR - 0175

