

# **Rising Stem Ball Valve**

The **Calvary RSBV** is a trunnion mounted **R**ising **S**tem **B**all **V**alve design, suitable for a wide range of applications. The mechanical (or cam) movement of the ball provides friction free operation, eliminating wear between the sealing surfaces and extending the life of the valve. The design also eliminates the "pinch point" or "pressure cut" commonly found with normal quarter turn valves. The combination of linear operation and friction free sealing provides a superior valve in demanding applications including those requiring high cycles or quicker closing times. The features resulting from this rugged design make it suitable for both common and more difficult applications.

Sizes: 2" thru 20"

## **Pressure Classes:**

150, 300, 600, 900, 1500

## **Operating Temperatures:**

-50F to +500F (-46C to +426C)

### Available End Connections:

Flanged, Weld, Weld by Flanged



#### **FEATURES INCLUDE:**

Positive (Zero Leak) Closure – Mechanical Sealing/Operation – High Reliability – Fire Safe Design –Positive Stem Retention – No Pinch Point - Single Seat Requires No Bypass System – In Line Repairable – Low Torque Operation

API6D BODY A216 WCC BALL A105+STL CALVARYVALVEINC USARUV HOUSTONTEXAS SPHERE VALVE 2"-8" 画 固 DATE SIGN STEM AIS 4140 150# RF HANDWHEEL APPROVED BY, CHECK BY. Mid-N-N 99 Ød Ød1 ØK ØD DRAWN BY. SPECIFICATIONS

1. DESIGN ACCORDING TO API 6D

2. FLANGE DIMENSION ACCORDING TO ANSI/ASME B16 5

3. FACE TO FACE DIMENSION ACCORDING TO ANSI/ASME B16 10 4. TEST AND INSPECTION ACCORDING TO API 598 RUV20130531-01 DRAWINGNO. MATERIAL SCALE NPS CLASS FREE TINU NCH 150 403 620 287 584 445 250 76 345 710 Seat Ring Body Stem Hex Nut Stem Cover Screw Nut Stopper Packing Packing Sieeve Bearing Grand Handwheel Day Bait Packing Plate Spacer Pin Thrust Ball Bearing Copper Nut Stem Sleeve The Flange Gasker Threaded Sleeve 300 100 High seal test Suitable Temp 450 Shell test pressure Surfable Mediums Gas seartest Nominal pressure × 152 2"-8" 201 765 9 298 5 215 9 241 3 280 23 9 157 2 190 5 230 22 3 2 92.1 120.7 150# RF HANDWHEEL DESCRIPTION 152 4 190 ASTM A194 2H X Vavie Test ASTM A194 Oil Regenerant And Granutar Media Et Package AIS: 1020 ASIM A 105 Flexible Graphite ASIM A276 420 ANS: 1045 ANS: 1045 ZOAL9-4 ANSI 1045 ASTM AZIO WCB ASTM A194 2H ASIM A216 WCC 015 7 SIV ASTM A105 304+STL ASTM A105 A105+ST ASTM A216 WC A36+Flexible Graphite ASTM A193 B 345 175 8-023 8-019 4-019 6.4-7 Z G Z 8-023 ENP MPa

API6D BODY A216 WCC, BALL A105+STL, STEM AISI 4140 CALVARYVALVEINC HOUSTONTEXAS USARUV SPHERE VALVE 10 1 DATE SIGN 17 150# RF GEAR OP APPROVED BY, CHECK BY. Ød Ød1 øK Ø[) DRAWN BY. 4, TEST AND INSPECTION ACCORDING TO API 598 1, DESIGN ACCORDING TO AP1 6D 2, FLANGE DIMENSION ACCORDING TO ANSI/ASME B16 5 3, FACE TO FACE DIMENSION ACCORDING TO ANSI/ASME B16 10 SPECIFICATIONS RUV20130531-06 DRAWINGNO. NPS 12 0 MATERIAL SCALE CLASS 150 673 762 FREE TINU NCH ON 7 8 9 6 850 I Stopper Seaf Ring Maras BurbloH Sten Stem Sleeve Ball Body The Flange Gasker Bolt Screw Nut Cover Packing Packing Sleeve Packing Plate Threaded Sceeve Spacer Pin Thrust Ball Bearing Copper Nut Bearing Gland Hexagon Bott Constal Gear Hex Nut 970 Paris 350 Suitable Temp Surfable Mediums Gas seal lest Shell test pressure Nominal pressure High seal test E Main Dimensions 3238 381 4318 52 12", 150# RF GEAR OP DESCRIPTION ASTM A105 ASTM A276 420 A105.ST ASTM A194 Package **ASTM A194 2H** ASTM A194 2H 362 Package S101 ISNV ASTM A194 ASTM AZIE S101 19NA ASTM A105 ASTM AZ16 WC A36+Flexible Graphite ASTM A194 2H ASTM A105 AIS 4140 Flexible Graphite ANSI 1045 ZOAL9-4 ASTM A 193 B7 Vavie lest Oil Regenerant And Granular Media Et Materials 200 503 30 × 28 6 12-026 12-026 N ON Remark MPa ENP PNP ENP

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		MATERIAL		Seat Ring	Ster Sleeve	Ball					Stopper	Cave	S P 1		Packing Sleeve		Threaded Sieeve	Spacer Pin	Thrust Ball Bearing					Dog Bolt	100



(3)

Nominal pressure
Shell test pressure
High seal test
Gas seal test
Surfable Mediums of

600Lb

15.3 MPa

0.6 Regenerant And Granular Media Etd
29°C - 425°C

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