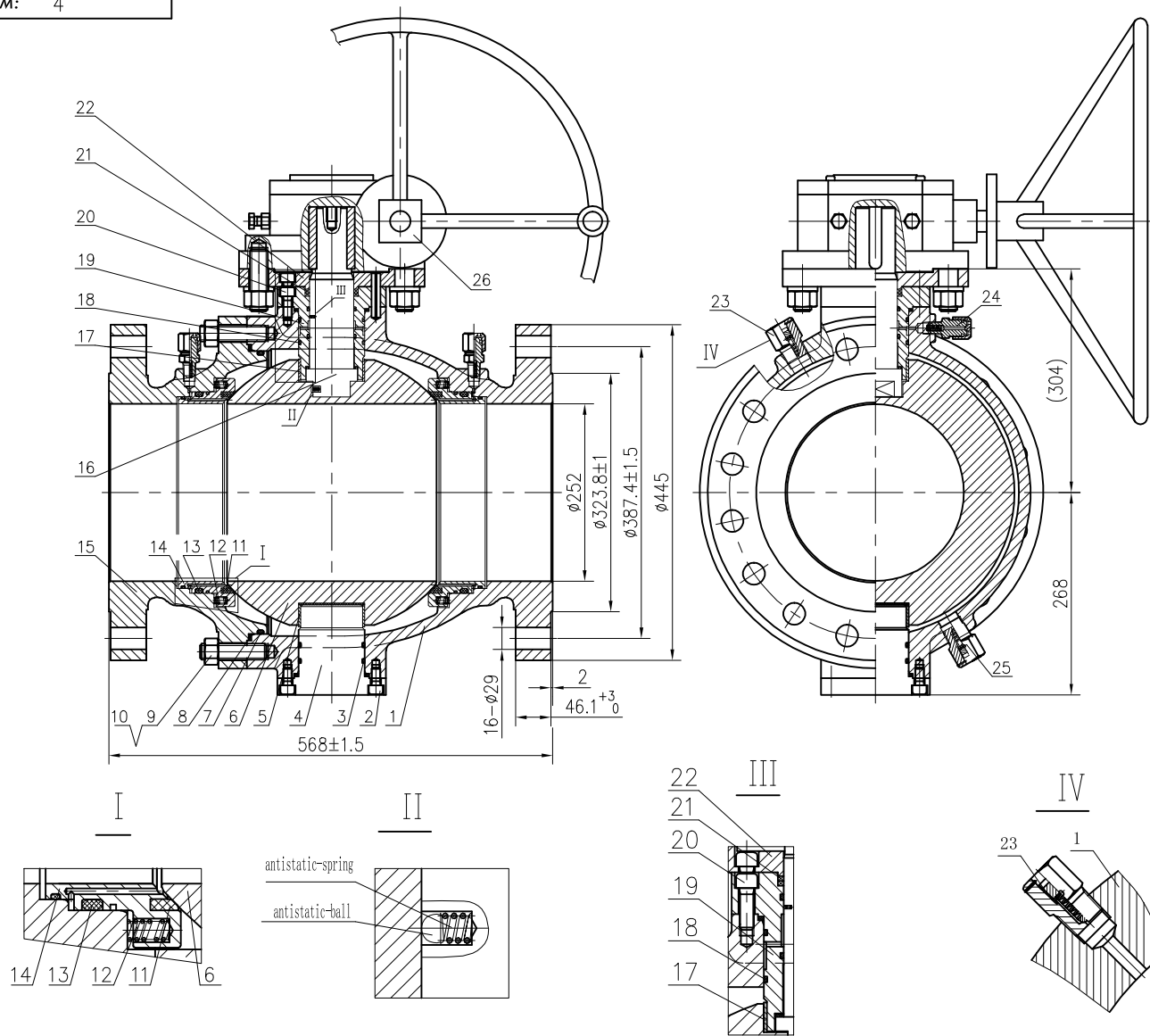


Dimensions in millimeters

ITEM: 4




NO.	PART NAME	MATERIAL	NOTE
1	BODY	ASTM A216 WCB	-
2	SCREW	ASTM A193 B7M	-
3	O-RING	Viton	-
4	TRUNNION	ASTM A105+ENP	-
5	BUSHING	SS+PTFE	-
6	BALL	ASTM A182 F316	-
7	O-RING	Viton	-
8	GASKET	SS+FLEXIBLE GRAPHITE	-
9	BOLT	ASTM A193 B7M	-
10	NUT	ASTM A194 2HM	-
11	SEAT INSERT	RPTFE	-
12	SEAT SPRING	INCONEL X750	-
13	O-RING	Viton	-
14	SEAT RING	ASTM A182 F316	-
15	CLOSURE	ASTM A216 WCB	-
16	STEM	ASTM A182 F316	-
17	BUSHING	SS+PTFE	-
18	O-RING	Viton	-
19	STUFFING BOX	ASTM A105+ENP	-
20	SCREW	ASTM A193 B7M	-
21	PACKING	FLEXIBLE GRAPHITE	-
22	MOUNTING FLANGE	ASTM A105	-
23	VENT VALVE	SS304	-
24	GREASE FITTING	SS304	-
25	DRAIN PLUG	SS304	-
26	GEAR	ASSEMBLY	-
27			-
28			-
29			-
30			-

GUTTER

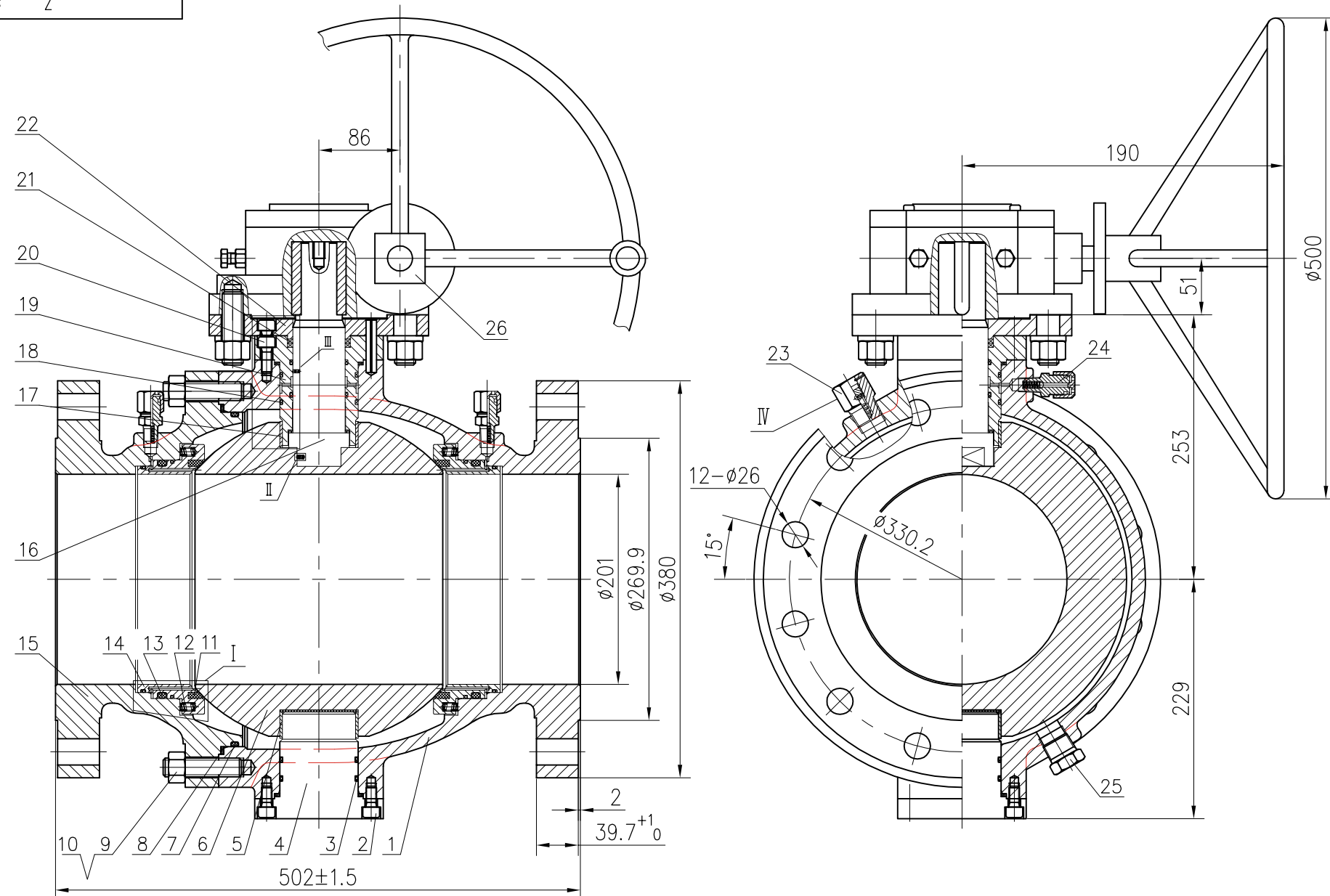
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<b>DESIGN &amp; MFG.</b>	API 6D	<b>RATING</b> CL 300	<b>D</b>	-	-	-	-
<b>PRESS-TEMP RATING</b>	ASME B16.34	<b>SHELL</b> 7.7 1125 <i>Mpd</i> <i>Psi</i>	<b>SEAT HDYRO</b> 5.7 814 <i>Mpd</i> <i>Psi</i>	<b>C</b>	-	-	-
<b>FACE TO FACE DIM.</b>	API 6D			<b>B</b>	-	-	-
<b>END CONNECTION</b>	RF	<b>SEAT AIR</b> 0.6 87 <i>Mpd</i> <i>Psi</i>	<b>BACKSEAT</b>	<b>A</b>	NEW ISSUE FOR APPROVAL		
<b>END DIMENSION</b>	ASME B16.5			<b>REV</b>	<b>DESCRIPTION</b>	<b>PREP.</b>	<b>APP'D</b>
<b>PRESSURE TEST</b>	API 6D	<b>TEMPERATURE</b>		<b>DESIGN:</b> WEN	<b>DATE:</b> 11/16/2020	<b>TAG NO.</b>	
<b>MARKING</b>	API 6D	-29 TO 120 <i>cl</i>	-20 TO 248 <i>F</i>	<b>REVIEW:</b> JIANG	<b>DATE:</b> 11/16/2020		
<b>OTHER REQ.</b>	-	<b>MEDIUM</b> Water, Oil, Gas		<b>APPROVE:</b> -	<b>DATE:</b> -		

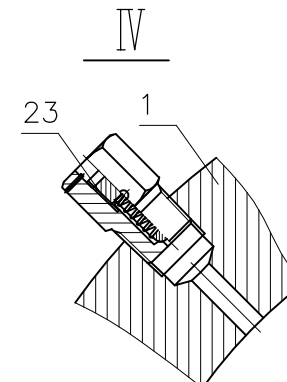
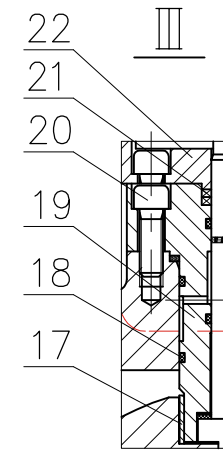
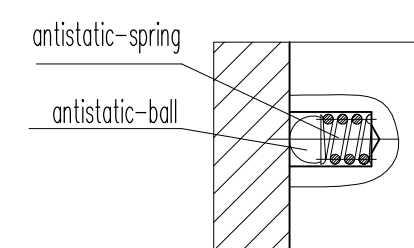
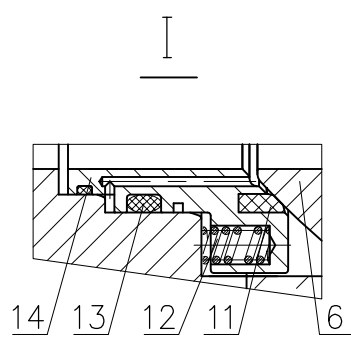
<b>TITLE:</b> NPS 10 CLASS 300 RF TRUNNION BALL VALVE GEAR OPERATED		
<b>DWG NO.</b>	<b>QUOTE NO.</b>	<b>PO NO.</b>
10BA3R3C410R1G	Q200805-015395	P/O 269
 <b>FBV, INC.</b> 2121 BRITTMOORE RD SUITE 4000 HOUSTON, TX 77043, USA TEL: 832-203-5459 FAX: 832-203-5461 <a href="http://www.fbvalve.com">http://www.fbvalve.com</a>		

Dimensions in millimeters


ITEM: 2



NO.	PART NAME	MATERIAL	NOTE
1	BODY	ASTM A352 LCB	
2	SCREW	ASTM A320 L7	
3	O-RING	HNBR	
4	TRUNNION	ASTM A350 LF2+ENP	
5	BUSHING	SS+PTFE	-
6	BALL	ASTM A182 F316	-
7	O-RING	HNBR	-
8	GASKET	SS316+FLEXIBLE GRAPHITE	-
9	BOLT	ASTM A320 L7	-
10	NUT	ASTM A194 7	-
11	SEAT INSERT	RPTFE	-
12	SEAT SPRING	INCONEL X750	-
13	O-RING	HNBR	-
14	SEAT RING	ASTM A182 F316	-
15	CLOSURE	ASTM A352 LCB	-
16	STEM	ASTM A182 F316	-
17	BUSHING	SS+PTFE	-
18	O-RING	HNBR	-
19	STUFFING BOX	ASTM A350 LF2+ENP	-
20	SCREW	ASTM A320 L7	-
21	PACKING	FLEXIBLE GRAPHITE	-
22	MOUNTING FLANGE	ASTM A350 LF2	-
23	VENT VALVE	SS304	-
24	GREASE FITTING	SS304	-
25	DRAIN PLUG	SS304	-
26	GEAR	ASSEMBLY	WITH LOCK
27			-
28			-
29			-
30			-

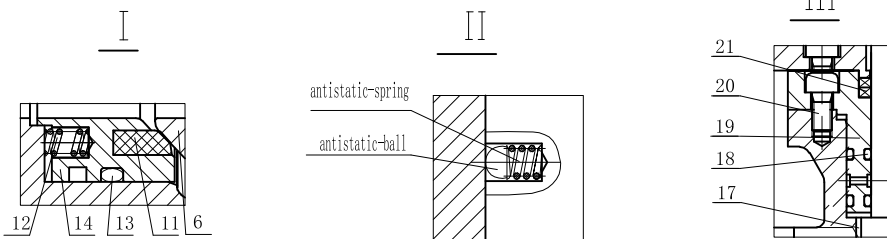
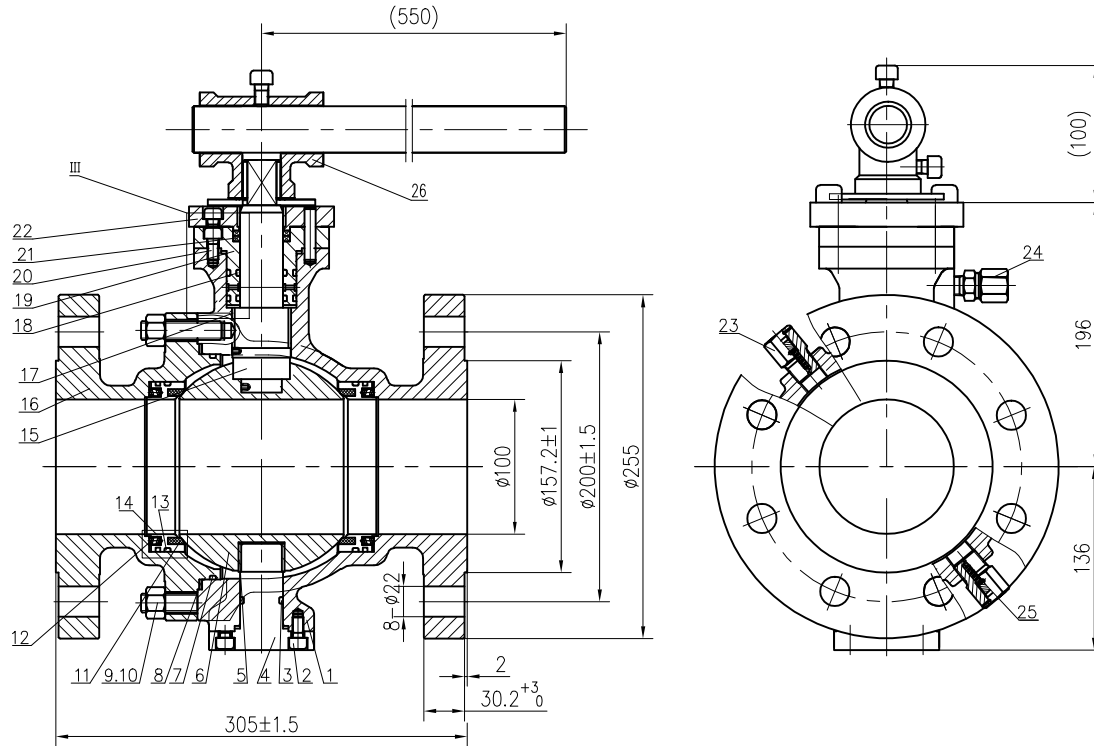


<b>DESIGN &amp; MFG.</b>	API 6D	<b>RATING</b>	CL 300	<b>D</b>	-	-	-
<b>PRESS-TEMP RATING</b>	ASME B16.34	<b>SHELL</b>	7.2 1050	<b>C</b>	-	-	-
<b>FACE TO FACE DIM.</b>	ASME B16.10	<b>SEAT HDYRO</b>	5.3 765	<b>B</b>	-	-	-
<b>END CONNECTION</b>	RF	<b>SEAT AIR</b>	0.6 87	<b>A</b>	NEW ISSUE FOR APPROVAL	-	-
<b>END DIMENSION</b>	ASME B16.5	<b>BACKSEAT</b>	-	<b>REV</b>	<b>DESCRIPTION</b>	<b>PREP. APP'D</b>	<b>DATE</b>
<b>PRESSURE TEST</b>	API 6D	<b>TEMPERATURE</b>	-46 TO 150	<b>DESIGN:</b>	SHAWN	<b>DATE:</b>	05/08/2019
<b>MARKING</b>	API 6D		-50 TO 302	<b>REVIEW:</b>	BIN	<b>DATE:</b>	05/08/2019
<b>OTHER REQ.</b>	API 607/NACE MR0175	<b>MEDIUM</b>	Water, Oil, Gas	<b>APPROVE:</b>	-	<b>DATE:</b>	-

<b>TITLE:</b> NPS 8 CLASS 300 RF TRUNNION BALL VALVE GEAR OPERATED		
<b>DWG NO.</b>	<b>QUOTE NO.</b>	<b>PO NO.</b>
08BA3R3L810R3G	Q190312-008003	P/O 0192
 <b>FBV, INC.</b> 2121 BRITTMOORE RD SUITE 4000 HOUSTON, TX 77043, USA TEL: 832-203-5459 FAX: 832-203-5461 <a href="http://www.fbvalve.com">http://www.fbvalve.com</a>		

Dimensions in millimeters

ITEM: 3




NO.	PART NAME	MATERIAL	NOTE
1	BODY	ASTM A216 WCB	-
2	SCREW	ASTM A193 B7M	-
3	O-RING	VITON	-
4	TRUNNION	ASTM A105+ENP	-
5	BUSHING	SS+PTFE	-
6	BALL	ASTM A182 F316	-
7	O-RING	VITON	-
8	GASKET	SS+FLEXIBLE GRAPHITE	-
9	BOLT	ASTM A193 B7M	-
10	NUT	ASTM A194 2HM	-
11	SEAT INSERT	RPTFE	-
12	SEAT SPRING	INCONEL X750	-
13	O-RING	VITON	-
14	SEAT RING	ASTM A182 F316	-
15	STEM	ASTM A182 F316	-
16	CLOSURE	ASTM A216 WCB	-
17	BUSHING	SS+PTFE	-
18	O-RING	VITON	-
19	STUFFING BOX	ASTM A105+ENP	-
20	SCREW	ASTM A193 B7M	-
21	PACKING	FLEXIBLE GRAPHITE	-
22	MOUNTING FLANGE	ASTM A105	-
23	VENT VALVE	SS304	-
24	GREASE FITTING	SS304	-
25	DRAIN PLUG	SS304	-
26	T-WAY	CARBON STEEL	-
27			-
28			-
29			-
30			-

<b>DESIGN &amp; MFG.</b>	API 6D	<b>RATING</b> CL 300	<b>D</b>	-	-	-	-
<b>PRESS-TEMP RATING</b>	ASME B16.34	<b>SHELL</b> 7.7 1125 <i>Mpd</i> <i>Psi</i>	<b>SEAT HDYRO</b> 5.7 814 <i>Mpd</i> <i>Psi</i>	<b>C</b>	-	-	-
<b>FACE TO FACE DIM.</b>	API 6D			<b>B</b>	-	-	-
<b>END CONNECTION</b>	RF	<b>SEAT AIR</b> 0.6 100 <i>Mpd</i> <i>Psi</i>	<b>BACKSEAT</b>	<b>A</b>	NEW ISSUE FOR APPROVAL	-	-
<b>END DIMENSION</b>	ASME B16.5			<b>REV</b>	<b>DESCRIPTION</b>	<b>PREP.</b>	<b>APP'D</b>
<b>PRESSURE TEST</b>	API 6D	<b>TEMPERATURE</b>		<b>DESIGN:</b> WEN	<b>DATE:</b> 11/16/2020	<b>TAG NO.</b>	
<b>MARKING</b>	API 6D	-29 TO 120 <i>cl</i>	-20 TO 248 <i>F</i>	<b>REVIEW:</b> JIANG	<b>DATE:</b> 11/16/2020		
<b>OTHER REQ.</b>	-	<b>MEDIUM</b> Water, Oil, Gas		<b>APPROVE:</b> -	<b>DATE:</b> -		

**TITLE:**  
NPS 4 CLASS 300 RF FORGED TRUNNION BALL VALVE LEVER OPERATE

<b>DWG NO.</b>	<b>QUOTE NO.</b>	<b>PO NO.</b>
04BA3R3C410R1L	Q200805-015395	P/O 269

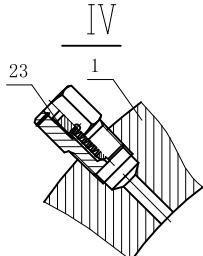
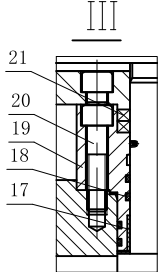
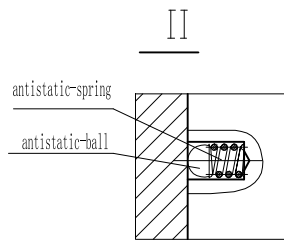
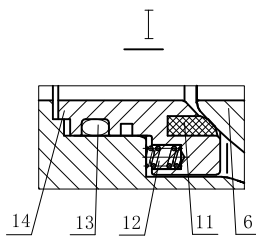
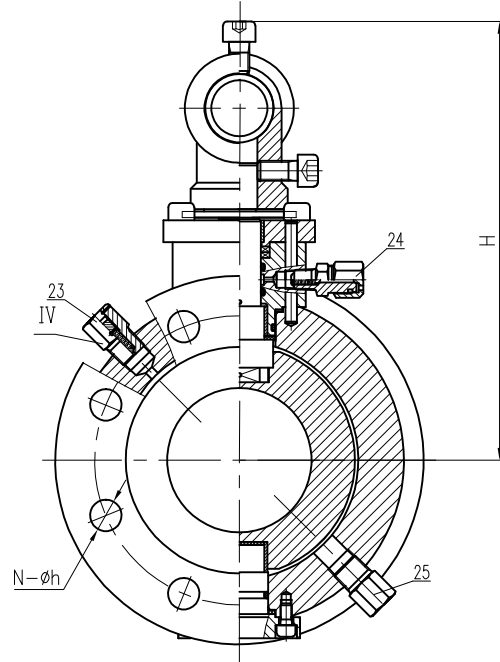
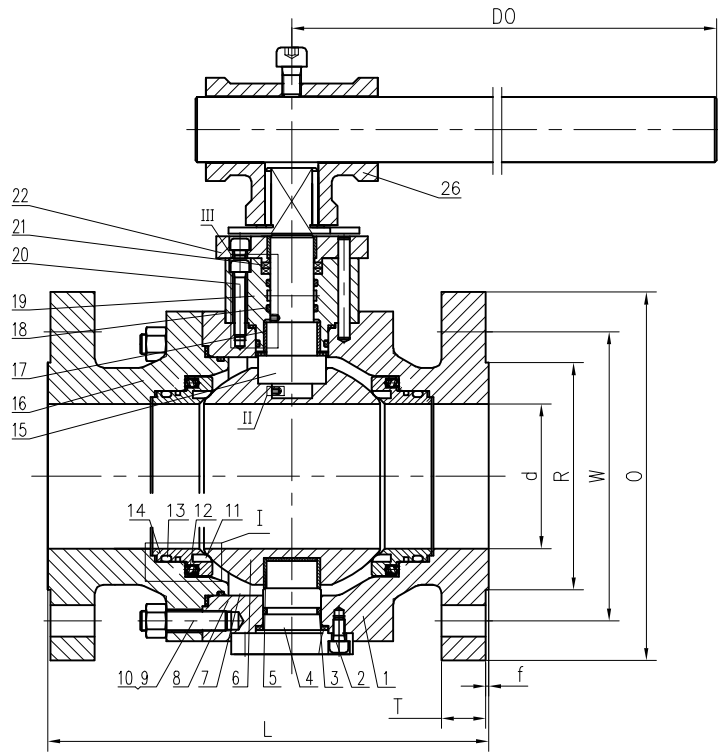
**FBV, INC.**  
2121 BRITTMOORE RD SUITE 4000  
HOUSTON, TX 77043, USA  
TEL: 832-203-5459 FAX: 832-203-5461  
<http://www.fbvalve.com>



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Dimensions in millimeters




NO.	PART NAME	MATERIAL	NOTE
1	BODY	ASTM A105N	-
2	SCREW	ASTM A193 B7M	-
3	O-RING	VITON	-
4	TRUNNION	ASTM A105	-
5	BUSHING	SS304+PTFE	-
6	BALL	ASTM A182 F316	-
7	O-RING	VITON	-
8	GASKET	SS316+FLEXIBLE GRAPHITE	-
9	BOLT	ASTM A193 B7M	-
10	NUT	ASTM A194 2HM	-
11	SEAT INSERT	RPTFE	-
12	SEAT SPRING	INCONEL X750	-
13	O-RING	VITON	-
14	SEAT RING	ASTM A182 F316	-
15	STEM	ASTM A276 316	-
16	CLOSURE	ASTM A105N	-
17	BUSHING	SS304+PTFE	-
18	O-RING	VITON	-
19	STUFFING BOX	ASTM A105+ENP	-
20	SCREW	ASTM A193 B7M	-
21	PACKING	FLEXIBLE GRAPHITE	-
22	MOUNTING FLANGE	ASTM A105	-
23	VENT VALVE	SS304	-
24	GREASE FITTING	SS304	-
25	DRAIN PLUG	SS304	-
26	LEVER	CARBON STEEL	-

ITEM NO.	NPS	d	L	O	W	R	T	f	DO	N-φh	H
2	4	φ100	305	φ255	φ200	φ157.2	30.2	2	600	8-φ22	268
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

<b>DESIGN &amp; MFG.</b>	API 6D	<b>RATING</b>	CL 300	<b>D</b>	-	-	-	-	-	-
<b>PRESS-TEMP RATING</b>	ASME B16.34	<b>SHELL</b>		<b>C</b>	-	-	-	-	-	-
<b>FACE TO FACE DIM.</b>	API 6D	7.7 Mpa/1125 Psi	5.7 Mpa/814 Psi	<b>B</b>	-	-	-	-	-	-
<b>END CONNECTION</b>	RF	<b>SEAT AIR</b>		<b>A</b>	NEW ISSUE FOR APPROVAL					
<b>END DIMENSION</b>	ASME B16.5	0.6 Mpa/87 Psi		<b>REV</b>	<b>DESCRIPTION</b>	<b>PREP.</b>	<b>APP'D</b>	<b>DATE</b>		
<b>PRESSURE TEST</b>	API 6D	<b>TEMPERATURE</b>		<b>DESIGN:</b>	WANG	<b>DATE:</b>	09/17/2021	<b>TAG NO.</b>		
<b>MARKING</b>	API 6D	-29 TO 120 °C	-20 TO 248 °F	<b>REVIEW:</b>	FANG	<b>DATE:</b>	09/17/2021			
<b>OTHER REQ.</b>	-	<b>MEDIUM</b> Water, Oil, Gas		<b>APPROVE:</b>		<b>DATE:</b>				

**TITLE:**  
CLASS 300 RF FORGED TRUNNION BALL VALVE LEVER OPERATED

<b>DWG NO.</b>	<b>QUOTE NO.</b>	<b>PO NO.</b>
00BA3R3C410R1L	Q200805-015395	327



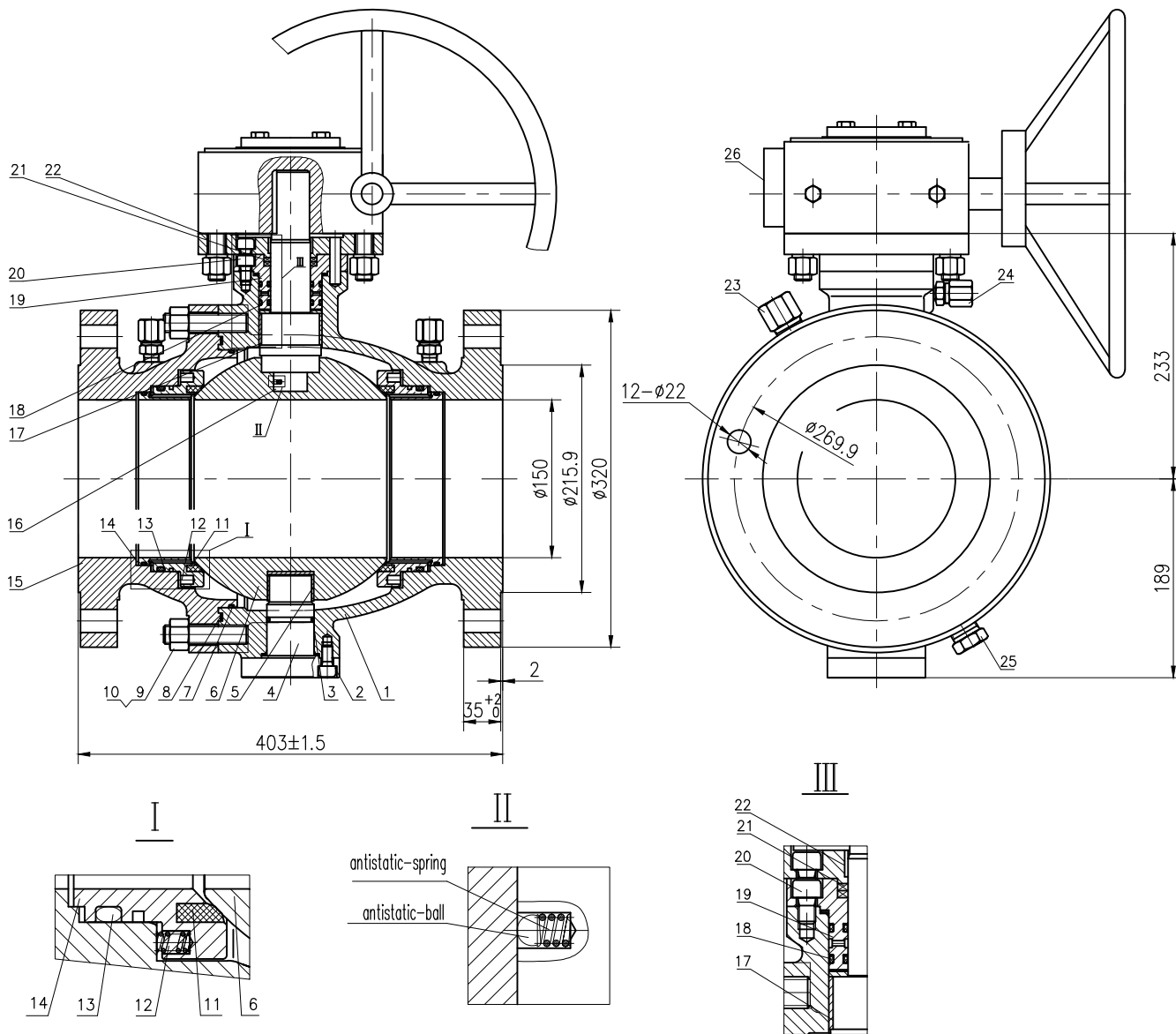
**FBV, INC.**  
2121 FM 359 South Brookshire, TX 77423 USA  
TEL: 832-203-5459 FAX: 832-203-5461  
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Engineered Solutions

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ITEM: 5



NO.	PART NAME	MATERIAL	NOTE
1	BODY	ASTM A216 WCB	
2	SCREW	ASTM A193 B7	
3	O-RING	VITON	
4	TRUNNION	ASTM A105+ENP	
5	BUSHING	SS+PTFE	-
6	BALL	ASTM A182 F316	-
7	O-RING	VITON	-
8	GASKET	SS316+FLEXIBLE GRAPHITE	-
9	BOLT	ASTM A193 B7	-
10	NUT	ASTM A194 2H	-
11	SEAT INSERT	RPTFE	-
12	SEAT SPRING	INCONEL X750	-
13	O-RING	VITON	-
14	SEAT RING	ASTM A182 F316	-
15	CLOSURE	ASTM A216 WCB	-
16	STEM	ASTM A182 F316	-
17	BUSHING	SS+PTFE	-
18	O-RING	VITON	-
19	STUFFING BOX	ASTM A105+ENP	-
20	SCREW	ASTM A193 B7	-
21	PACKING	FLEXIBLE GRAPHITE	-
22	MOUNTING FLANGE	ASTM A105	-
23	VENT VALVE	SS304	-
24	GREASE FITTING	SS304	-
25	DRAIN PLUG	SS304	-
26	GEAR	ASSEMBLY	-
27			-
28			-
29			-
30			-


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GUTTER

<b>DESIGN &amp; MFG.</b>	API 6D	<b>RATING</b>	CL 300	<b>D</b>					
<b>PRESS-TEMP RATING</b>	ASME B16.34	<b>SHELL</b>		<b>C</b>					
<b>FACE TO FACE DIM.</b>	ASME B16.10	7.7	1125 Mpsl	<b>B</b>					
<b>END CONNECTION</b>	RF	<b>SEAT AIR</b>		<b>A</b>					
<b>END DIMENSION</b>	ASME B16.5	0.6	87 Mpsl	<b>REV</b>					
<b>PRESSURE TEST</b>	API 6D	<b>TEMPERATURE</b>		<b>DESIGN:</b>	BILL	<b>DATE:</b>	04/27/2017	<b>TAG NO.</b>	
<b>MARKING</b>	API 6D	-29 TO 120	-20 TO 248 °C	<b>REVIEW:</b>	SHAWN	<b>DATE:</b>	04/27/2017		
<b>OTHER REQ.</b>	API 607	<b>MEDIUM</b>	Water, Oil, Gas	<b>APPROVE:</b>	-	<b>DATE:</b>	-		

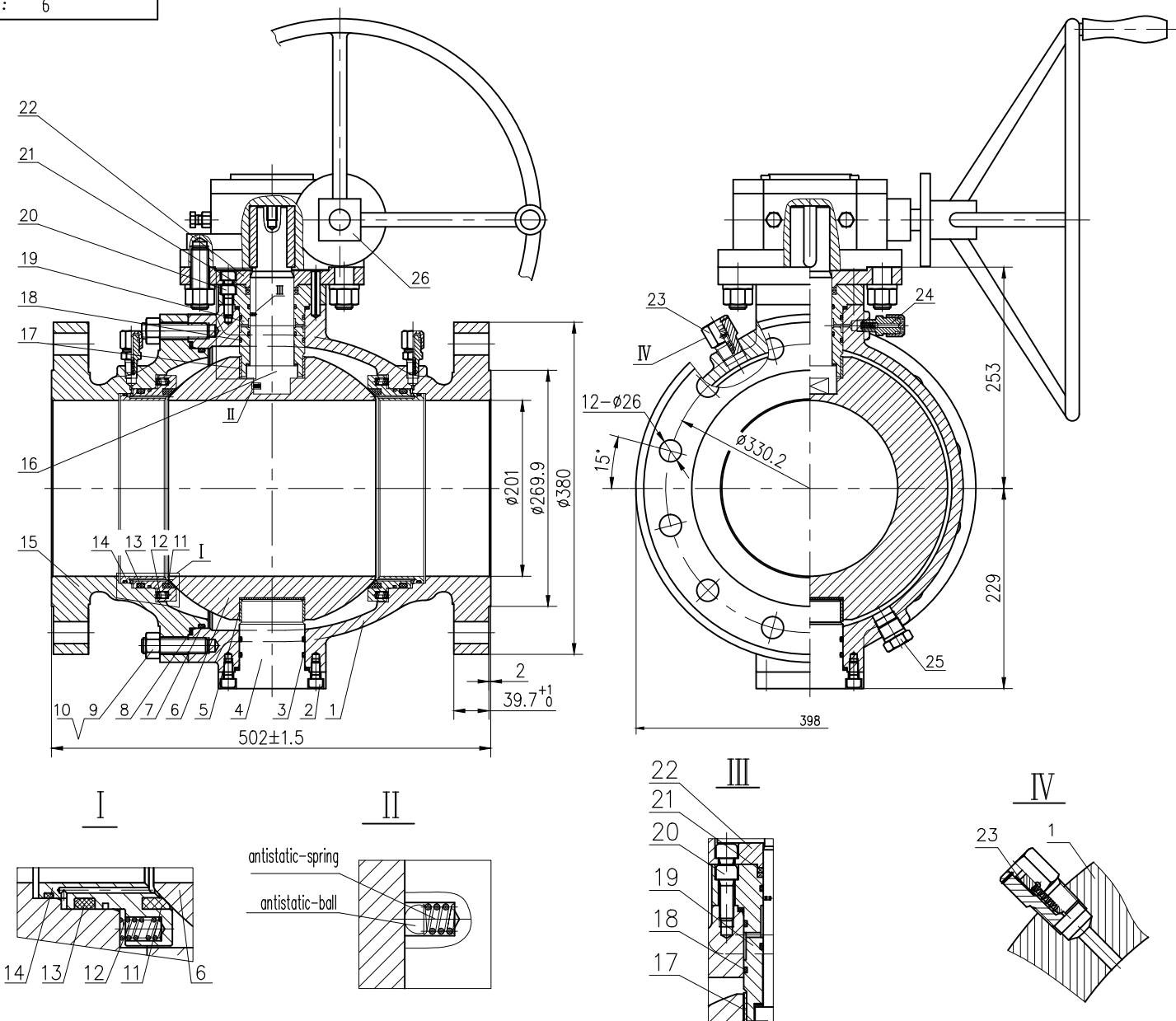
**TITLE:**  
NPS 6 CLASS 300 RF TRUNNION BALL VALVE GEAR OPERATED

<b>DWG NO.</b>	<b>QUOTE NO.</b>	<b>PO NO.</b>
06BA3R3C410R1G	-	-



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ITEM: 6



NO.	PART NAME	MATERIAL	NOTE
1	BODY	ASTM A216 WCB	
2	SCREW	ASTM A193 B7	
3	O-RING	VITON	
4	TRUNNION	ASTM A105+ENP	
5	BUSHING	SS+PTFE	-
6	BALL	ASTM A182 F316	-
7	O-RING	VITON	-
8	GASKET	SS316+FLEXIBLE GRAPHITE	-
9	BOLT	ASTM A193 B7	-
10	NUT	ASTM A194 2H	-
11	SEAT INSERT	RPTFE	-
12	SEAT SPRING	INCONEL X750	-
13	O-RING	VITON	-
14	SEAT RING	ASTM A182 F316	-
15	CLOSURE	ASTM A216 WCB	-
16	STEM	ASTM A182 F316	-
17	BUSHING	SS+PTFE	-
18	O-RING	VITON	-
19	STUFFING BOX	ASTM A105+ENP	-
20	SCREW	ASTM A193 B7	-
21	PACKING	FLEXIBLE GRAPHITE	-
22	MOUNTING FLANGE	ASTM A105	-
23	VENT VALVE	SS304	-
24	GREASE FITTING	SS304	-
25	DRAIN PLUG	SS304	-
26	GEAR	ASSEMBLY	-
27			-
28			-
29			-
30			-

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<b>DESIGN &amp; MFG.</b>	API 6D	<b>RATING</b>	CL 300	<b>D</b>		<b>TITLE:</b>	NPS 8 CLASS 300 RF TRUNNION BALL VALVE GEAR OPERATED			
<b>PRESS-TEMP RATING</b>	ASME B16.34	<b>SHELL</b>		<b>C</b>						
<b>FACE TO FACE DIM.</b>	ASME B16.10	7.7	1125	5.7	814	<b>B</b>	-	-	-	
<b>END CONNECTION</b>	RF	<b>SEAT AIR</b>		<b>BACKSEAT</b>		<b>A</b>	NEW ISSUE FOR APPROVAL			
<b>END DIMENSION</b>	ASME B16.5	0.6	87			<b>REV</b>	<b>DESCRIPTION</b>	<b>PREP.</b>	<b>APP'D</b>	<b>DATE</b>
<b>PRESSURE TEST</b>	API 6D	<b>TEMPERATURE</b>			<b>DESIGN:</b>	BILL	<b>DATE:</b>	04/27/2017	<b>TAG NO.</b>	
<b>MARKING</b>	API 6D	-29 TO 120	-20 TO 248		<b>REVIEW:</b>	SHAWN	<b>DATE:</b>	04/27/2017		
<b>OTHER REQ.</b>	API 607	<b>MEDIUM</b>	Water, Oil, Gas	<b>APPROVE:</b>	-	<b>DATE:</b>	-			



**FBV, INC.**  
 2121 BRITTMORE RD SUITE 4000  
 HOUSTON, TX 77043, USA  
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