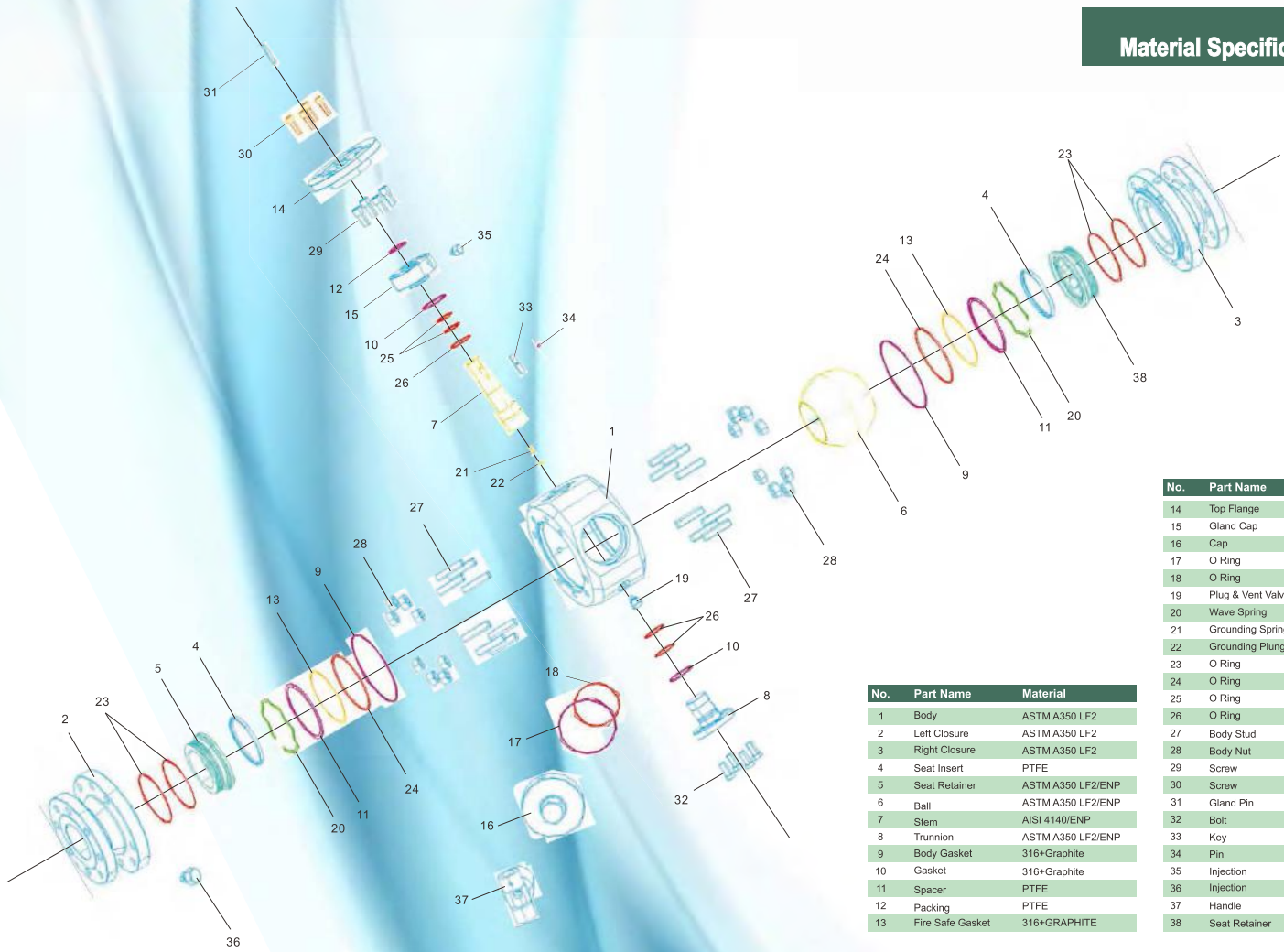


"WE CONTROL THE FLOW"

Pig Ball Valve

Material Specifications



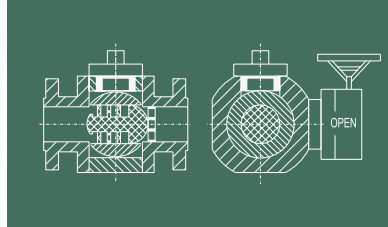
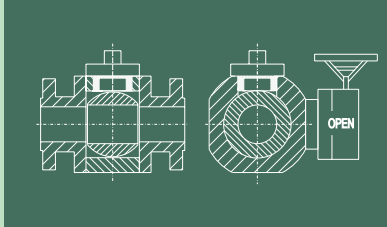
| No. | Part Name | Material |
|-----|-------------------|-------------------|
| 14 | Top Flange | ASTM A350 LF2 |
| 15 | Gland Cap | ASTM A350 LF2 |
| 16 | Cap | ASTM A350 LF2-N2 |
| 17 | O Ring | HSN |
| 18 | O Ring | HSN |
| 19 | Plug & Vent Valve | Stainless Steel |
| 20 | Wave Spring | Inconel X-750 |
| 21 | Grounding Spring | Stainless Steel |
| 22 | Grounding Plunger | Stainless Steel |
| 23 | O Ring | HSN |
| 24 | O Ring | HSN |
| 25 | O Ring | HSN |
| 26 | O Ring | HSN |
| 27 | Body Stud | ASTM A320 L7M |
| 28 | Body Nut | ASTM A194 7M |
| 29 | Screw | ASTM A320 L7M |
| 30 | Screw | ASTM A320 L7M |
| 31 | Gland Pin | Carbon Steel |
| 32 | Bolt | ASTM A320 L7M |
| 33 | Key | Carbon Steel |
| 34 | Pin | Carbon Steel |
| 35 | Injection | Stainless Steel |
| 36 | Injection | Stainless Steel |
| 37 | Handle | Carbon Steel |
| 38 | Seat Retainer | ASTM A350 LF2/ENP |

| No. | Part Name | Material |
|-----|------------------|-------------------|
| 1 | Body | ASTM A350 LF2 |
| 2 | Left Closure | ASTM A350 LF2 |
| 3 | Right Closure | ASTM A350 LF2 |
| 4 | Seat Insert | PTFE |
| 5 | Seat Retainer | ASTM A350 LF2/ENP |
| 6 | Ball | ASTM A350 LF2/ENP |
| 7 | Stem | AISI 4140/ENP |
| 8 | Trunnion | ASTM A350 LF2/ENP |
| 9 | Body Gasket | 316+Graphite |
| 10 | Gasket | 316+Graphite |
| 11 | Spacer | PTFE |
| 12 | Packing | PTFE |
| 13 | Fire Safe Gasket | 316+GRAPHITE |

Pig Launching - Clockwise To Close

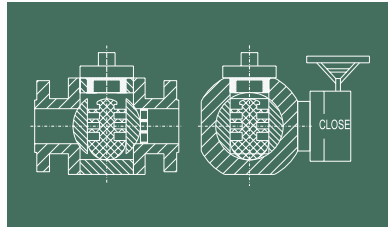
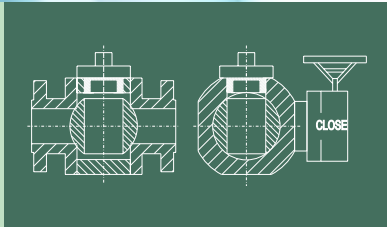
Pig Receiving - Clockwise To Close

Step 1
Open position
Through conduit flow no pockets to trap wax or debris.



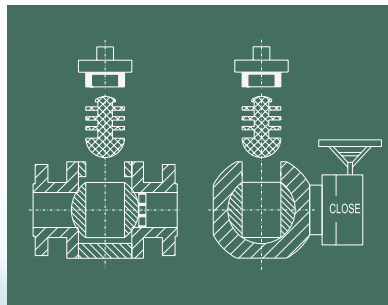
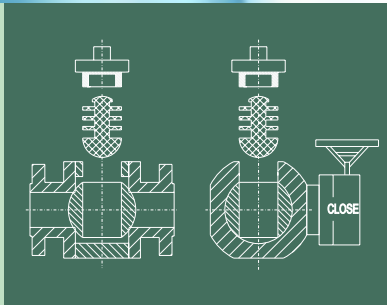
Step 1
Open position
Through conduit flow stopper in valve cavity arrests pig.

Step 2
Close valve.
Upstream and downstream is sealed off.
Vent body cavity pressure.



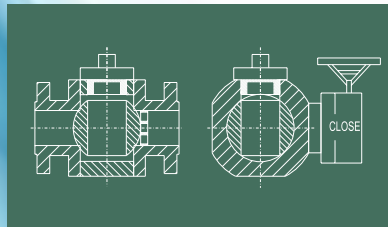
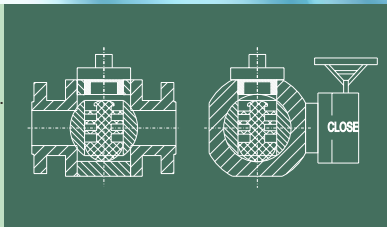
Step 2
Close valve.
Upstream and downstream is sealed off.
Vent body cavity pressure.

Step 3
Remove entry plug.
Insert pig into valve ball cavity.



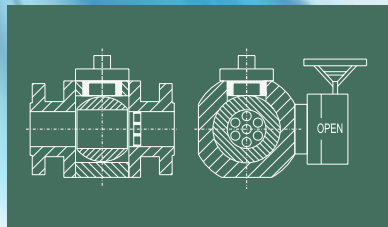
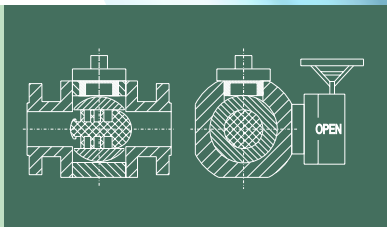
Step 3
Remove entry plug.
Remove pig from valve ball cavity.

Step 4
Screw entry plug into place.
Close vent valve.



Step 4
Screw entry plug into place.
Close vent valve.

Step 5
Open valve.
Flowline pressure moves the pig downstream.



Step 5
Open valve.
Flow brings the next pig along to be trapped.

Design Features

Double O Ring Sealing to Prevent the Leakage From Stem Area.

Secondary Metal-to-Metal Sealing Perform When non-metal Sealing is damaged.

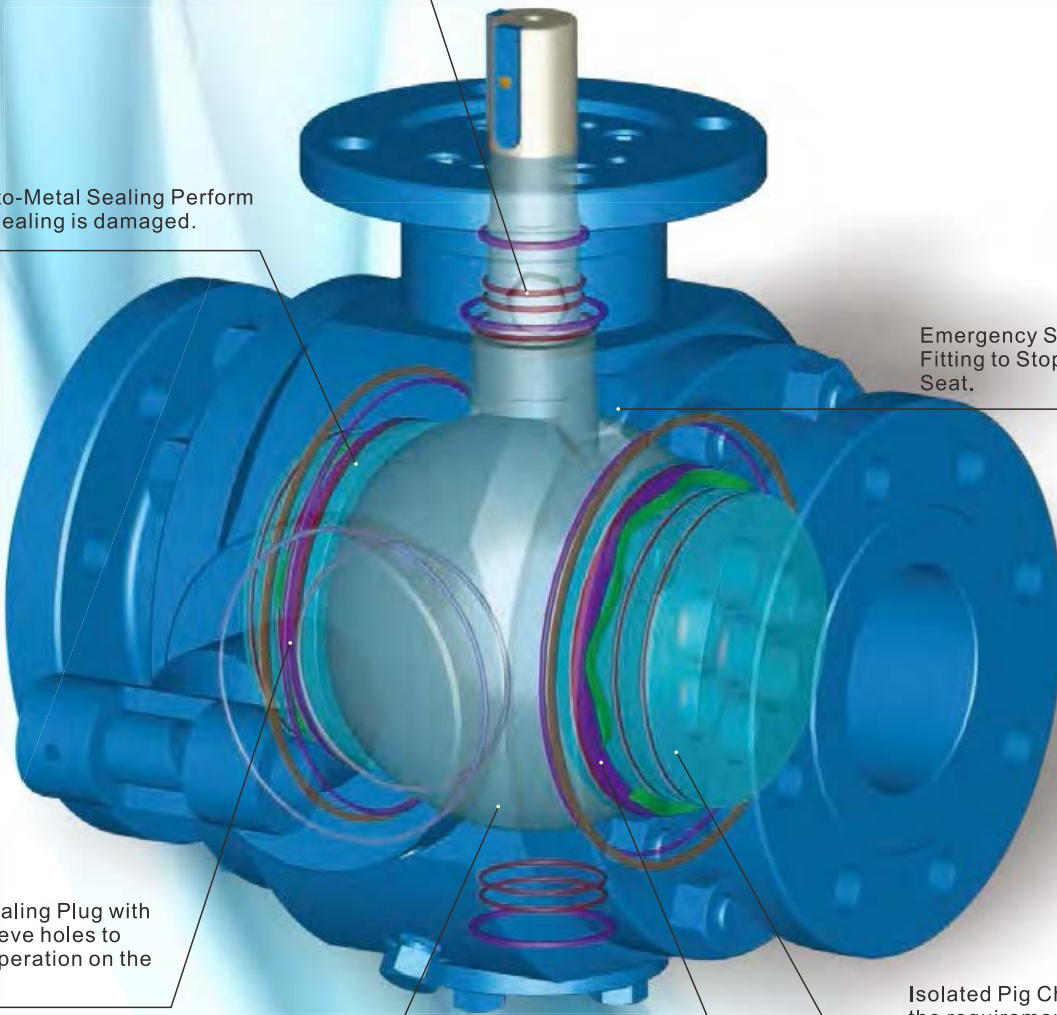
Emergency Seat sealant Injection Fitting to Stop Leakage From the Seat.

Double O-Ring Sealing Plug with Two Pressure-relieve holes to easy & Safe the Operation on the Field.

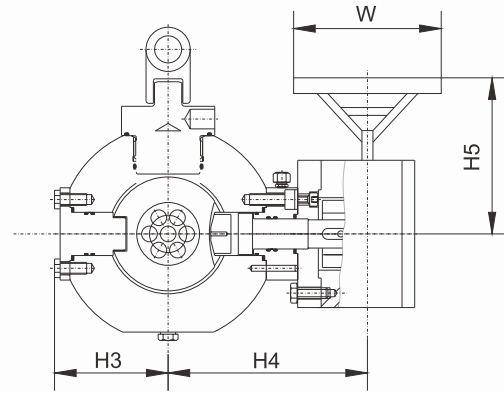
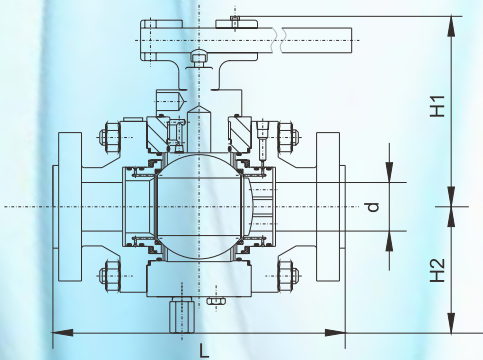
Isolated Pig Chamber to eliminate the requirement for additional shut-off valve.

Trunnion mounted ball design to Extend seat life and reduce the Torque of operation.

Energized Wave Spring Seats to easure the Sealing even at low pressure.



Dimensions



Dimensions

| Dia Inch | Press Class | End Type | Face to Face mm | H1 mm | H2 mm | H3 mm | H4 mm | H5 mm | W mm |
|----------|-------------|----------|-----------------|-------|-------|-------|-------|-------|------|
| 2 | Class 150 | RF | 292* | 260 | 141 | 118 | 258 | ---- | ---- |
| | Class 150 | RTJ | 302* | 260 | 141 | 118 | 258 | ---- | ---- |
| | Class 300 | RF | 362* | 260 | 141 | 118 | 258 | ---- | ---- |
| | Class 300 | RTJ | 371* | 260 | 141 | 118 | 258 | ---- | ---- |
| | Class 600 | RF | 362* | 260 | 141 | 118 | 258 | ---- | ---- |
| | Class 600 | RTJ | 371* | 260 | 141 | 118 | 258 | ---- | ---- |
| 3 | Class 150 | RF | 324* | 307 | 158 | 133 | 228 | 218 | 300 |
| | Class 150 | RTJ | 333* | 307 | 158 | 133 | 228 | 218 | 300 |
| | Class 300 | RF | 356* | 307 | 158 | 133 | 228 | 218 | 300 |
| | Class 300 | RTJ | 359* | 307 | 158 | 133 | 228 | 218 | 300 |
| | Class 600 | RF | 356* | 307 | 158 | 133 | 228 | 218 | 300 |
| | Class 600 | RTJ | 359* | 307 | 158 | 133 | 228 | 218 | 300 |
| 4 | Class 150 | RF | 394* | 355 | 185 | 171 | 266 | 300 | 400 |
| | Class 150 | RTJ | 406* | 355 | 185 | 171 | 266 | 300 | 400 |
| | Class 300 | RF | 406* | 355 | 185 | 171 | 266 | 300 | 400 |
| | Class 300 | RTJ | 422* | 355 | 185 | 171 | 266 | 300 | 400 |
| | Class 600 | RF | 432 | 355 | 185 | 171 | 266 | 300 | 400 |
| | Class 600 | RTJ | 435 | 355 | 185 | 171 | 266 | 300 | 400 |
| 6 | Class 150 | RF | 457* | 375 | 232 | 233 | 335 | 450 | 600 |
| | Class 150 | RTJ | 467* | 375 | 232 | 233 | 335 | 450 | 600 |
| | Class 300 | RF | 480* | 375 | 232 | 233 | 335 | 450 | 600 |
| | Class 300 | RTJ | 492* | 375 | 232 | 233 | 335 | 450 | 600 |
| | Class 600 | RF | 559 | 375 | 232 | 233 | 335 | 450 | 600 |
| | Class 600 | RTJ | 562 | 375 | 232 | 233 | 335 | 450 | 600 |
| 8 | Class 150 | RF | 597* | 445 | 300 | 325 | 405 | 450 | 600 |
| | Class 150 | RTJ | 607* | 445 | 300 | 325 | 405 | 450 | 600 |
| | Class 300 | RF | 622* | 445 | 300 | 325 | 405 | 450 | 600 |
| | Class 300 | RTJ | 635* | 445 | 300 | 325 | 405 | 450 | 600 |
| | Class 600 | RF | 660 | 445 | 300 | 325 | 405 | 450 | 600 |
| | Class 600 | RTJ | 663 | 445 | 300 | 325 | 405 | 450 | 600 |

Notes: Face to Face Length meets API Spec. '6D' except for those items marked (*).