

**NEWCO**

# Trunnion Ball

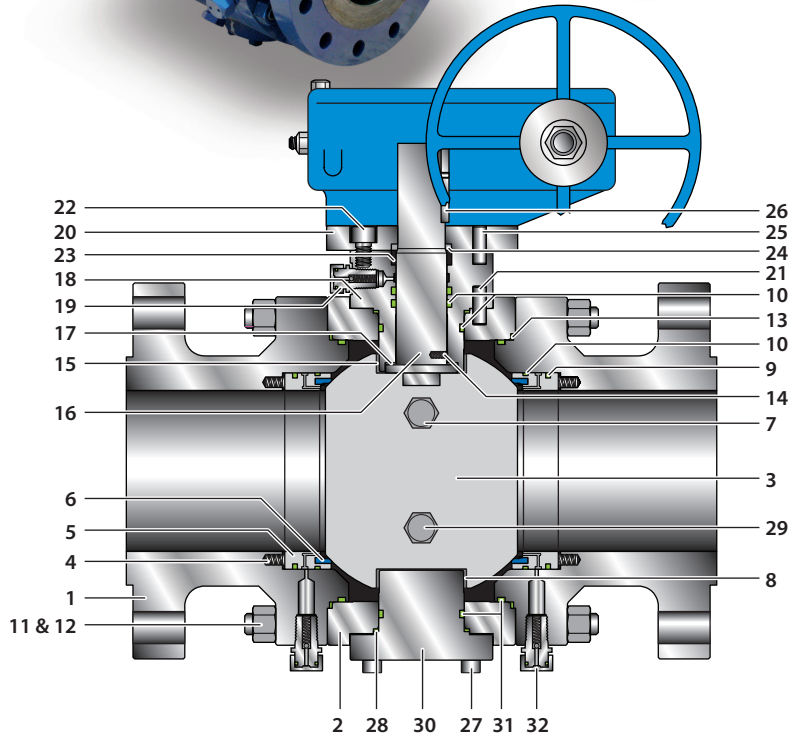
2" thru 36" • ASME 150 thru 2500

Meets/exceeds CSA requirements. Fire safe design

<b>Basic Design</b>	<b>ASME B16.34/API 6D</b>
<b>Face-to-Face Dimension</b>	<b>API 6D</b>
<b>Flanged End Dimension</b>	<b>ASME B16.5</b>
<b>Inspected &amp; Tested to</b>	<b>API 6D</b>
<b>Certifications</b>	<b>ISO 9001/Canadian CRN</b>

## Benefits at a Glance

- Full port
- Hardened surface options
- 2" thru 36" full or standard bore
- ASME Classes 150 thru 2500
- Heavy-duty forged 3-piece body
- Trunnion design
- API 6D face-to-face
- Flanged or weld-end
- A105, LF2, or 316 SS body
- NACE compliant trims
- Body vent or flush and drain
- Blow-out proof stem
- Corrosion resistant bearings
- Secondary stem & seat seal system
- Anti-static protection
- Independent seat rings
- Wide variety of seating options
- Inconel seat springs
- Bi-directional seating
- Firesafe design
- Graphite gaskets and seals
- Double block & bleed option
- ISO 5211 actuator mounting pad
- 100% tested in accordance to API 6D
- Easy to service



## Heavy-duty Seat Rings

- Spring loaded/pressure energized
- Variety of inserts with metal back-up
- Metal-to-metal options
- Hardened surface options
- Field replaceable

### Typical Bill of Materials

<b>1</b>	Body Flange	ASTM A105	<b>17</b>	Stem Bearing	R-PTFE
<b>2</b>	Body	ASTM A105	<b>18</b>	Stuffing Box	ASTM A105
<b>3</b>	Ball	ASTM A182 - F316	<b>19</b>	Injection Fitting	ASTM A105
<b>4</b>	Spring	Inconel X-750	<b>20</b>	Adaptor Flange	Carbon steel
<b>5</b>	Seat Ring	ASTM A276 Type 316	<b>21</b>	Pin	Carbon steel
<b>6</b>	Seat	R-PTFE	<b>22</b>	Screw	ASTM193 - B7M
<b>7</b>	Vent Valve	ASTM A182 Type 316	<b>23</b>	Packing	Flex Graphite
<b>8</b>	Bearing	1045 + PTFE	<b>24</b>	Gland	ASTM A276 Type 410
<b>9</b>	Seat Gasket	Graphite	<b>25</b>	Pin	Carbon steel
<b>10</b>	O-ring	Viton	<b>26</b>	Key	AISI 1045
<b>11</b>	Body Stud	ASTM 193 - B7M	<b>27</b>	Screw	ASTM A193 - B7M
<b>12</b>	Body Nut	ASTM 194 - 2HM	<b>28</b>	Gasket	316 + Graphite
<b>13</b>	Body Gasket	316 + graphite	<b>29</b>	Drain Plug	ASTM A182 Type 304
<b>14</b>	Antistatic Dvc	ASTM A276 type 316	<b>30</b>	Trunnion	ASTM A105
<b>15</b>	Bearing	1045 + PTFE	<b>31</b>	O-ring	Viton
<b>16</b>	Stem	ASTM A182 Type 316	<b>32</b>	Injection Fitting	ASTM A105

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## Seat Insert Pressure & Temperature Limits

**Trunnion Design • 2" thru 36" • ASME 150 thru 2500**

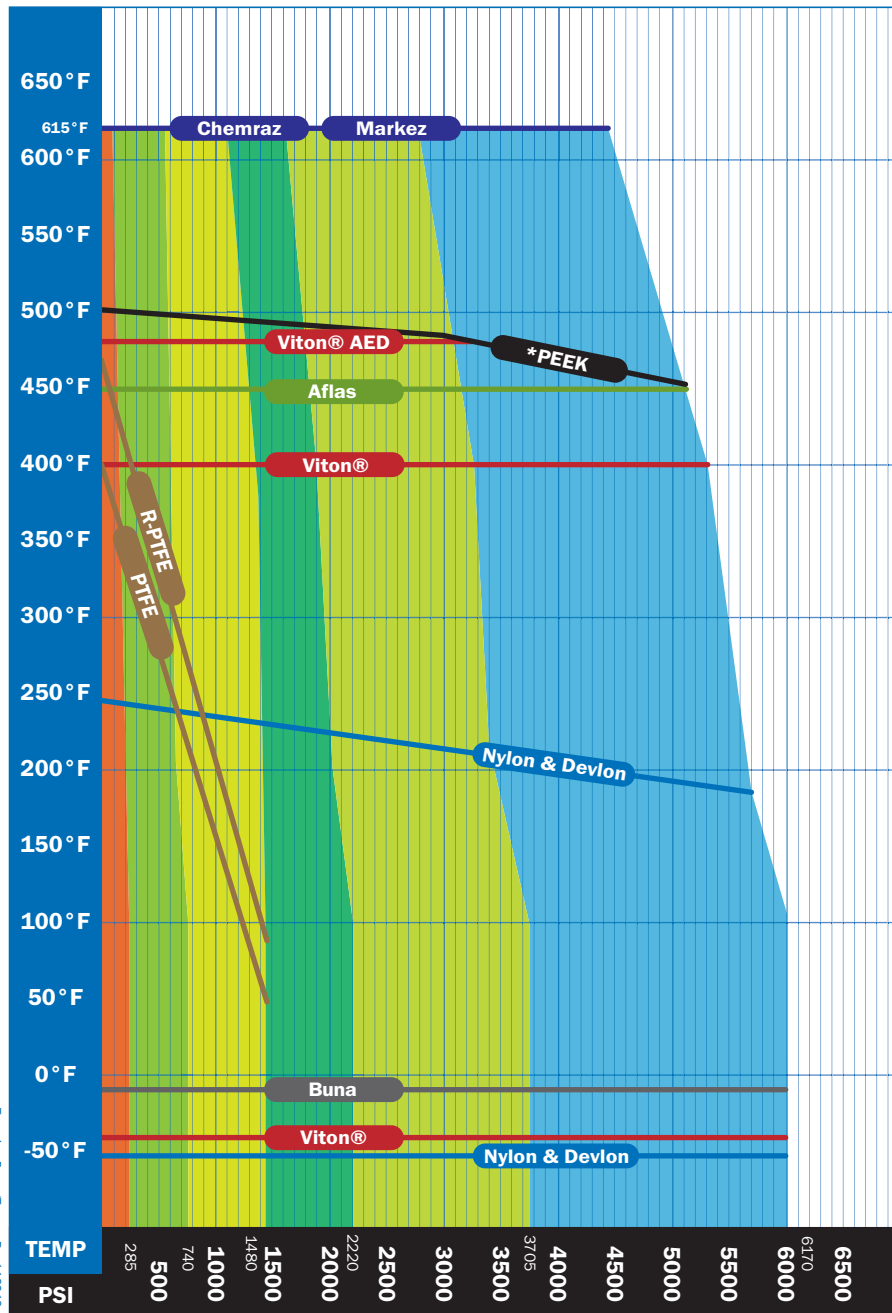
### Overview

The chart below identifies seat insert pressure and temperature limits for common plastics and elastomers used in Newco® Trunnion Ball Valves. Other materials are available upon request.

### Component Designation Legend

**Seat Material:** R-PTFE, PTFE, PEEK, Nylon, & Devlon

**O-Ring Material:** Aflas, Buna, Chemraz, Markez, Viton®, & Viton® AED



### Specifications

Meets/exceeds CSA requirements. Fire Safe Design

BASIC DESIGN	ASME B16.34/API 6D
Face-to-Face Dimension	API 6D
Flanged End Dimension	ASME B16.5
Inspected & Tested to	API 6D & 607
Certifications	ISO 9001/Canadian CRN

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\*If the operating temperature is higher than 480 F°, please contact a Newco representative.