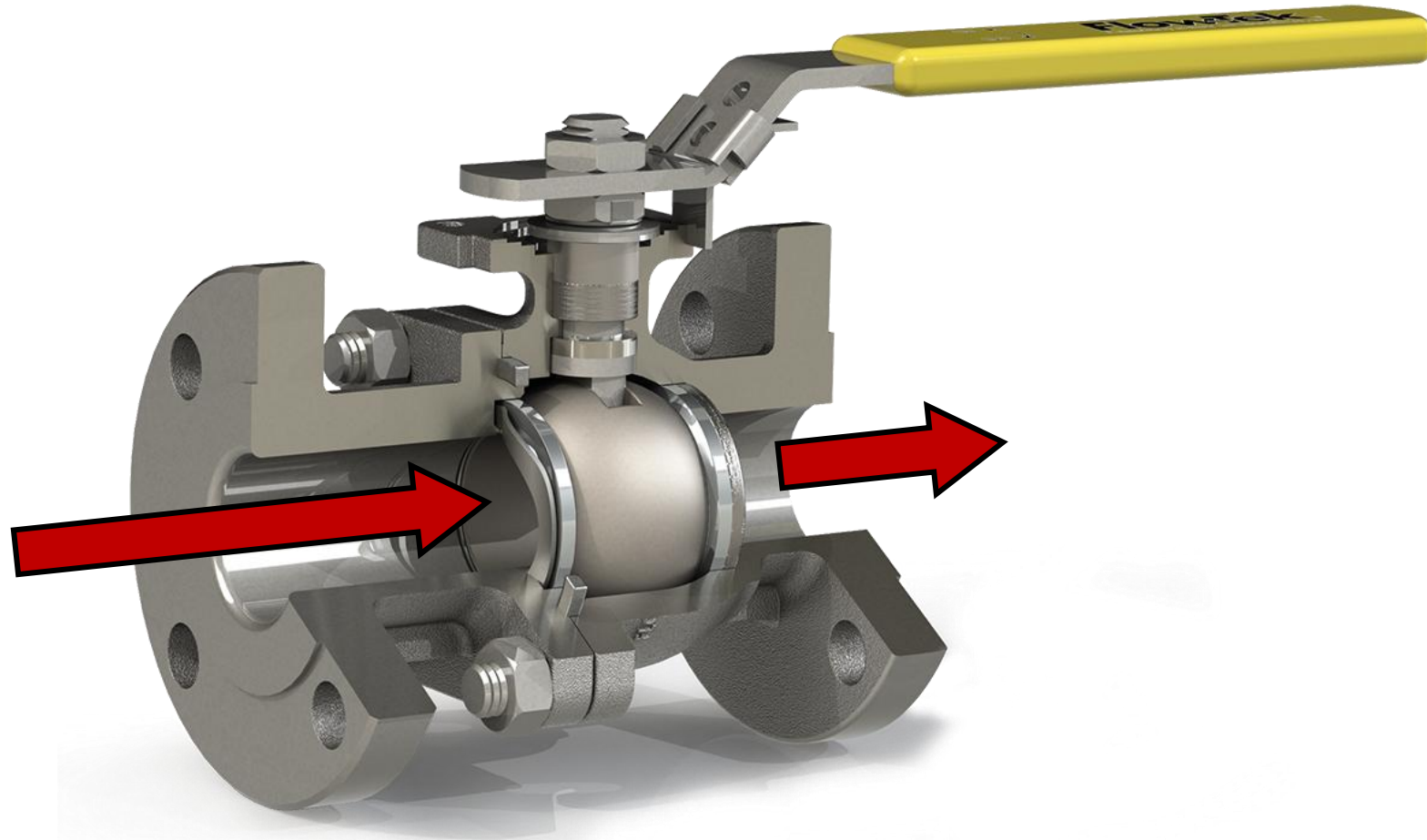


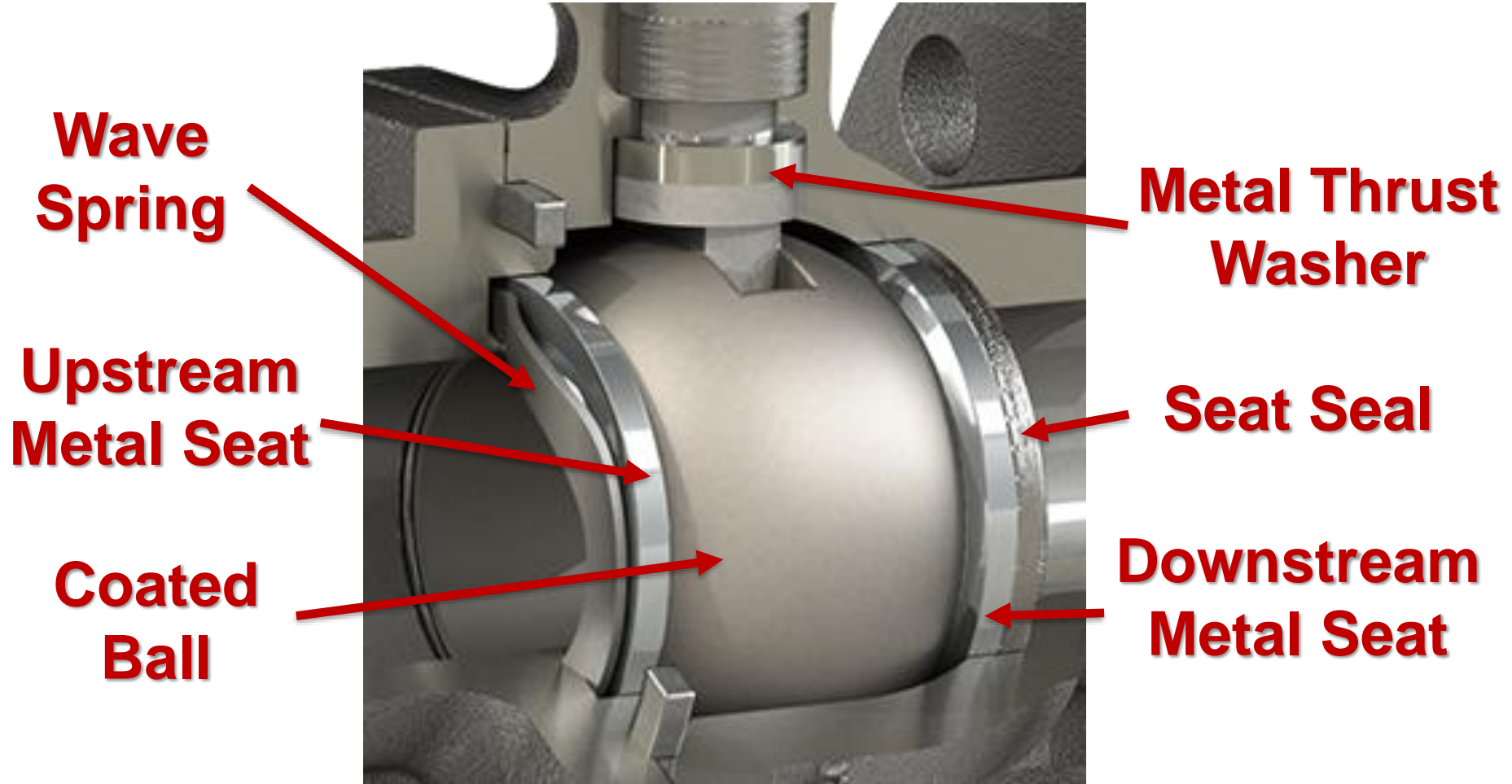


**F15/F30 METAL SEATED  
PRODUCT LAUNCH**

# F15/F30 METAL SEATED



# Cutaway View



# Ball & Seat Set Conversion



# Design Features

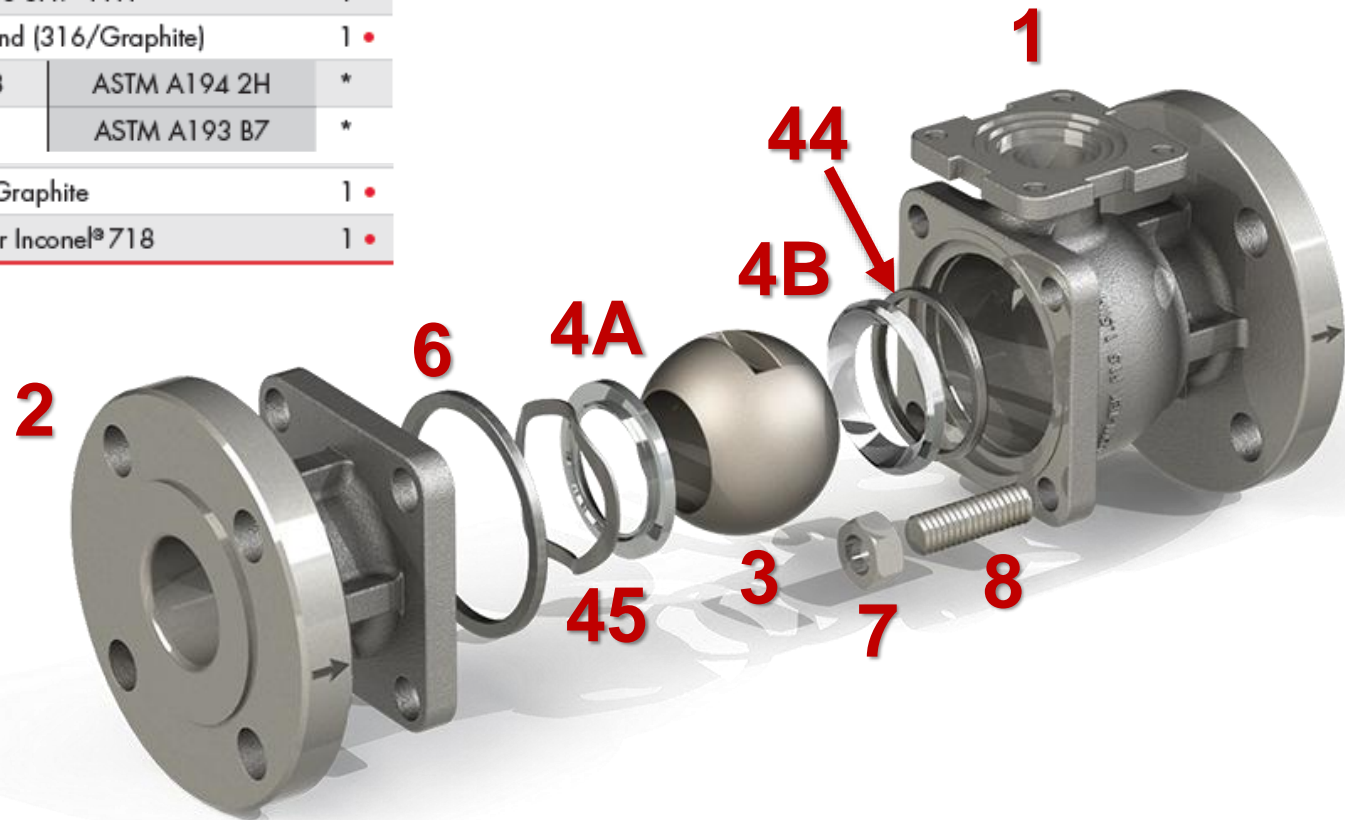
- **Extends F15/F30 temperature range (750°F /400°C)**
- **Abrasion/erosion resistance and anti-fouling capabilities (slurries, etc.)**
- **Size range: ½” to 8”, CL150 & CL300**
- **2015 Kick Off Stock: 2”-6”, CL150 & CL300**
- **Currently Uni-directional sealing**
- **No machining required, uses standard F15/F30 valve Drop-in trim replacement for soft seated trim**
- **Significantly reduced cost**
- **Significantly reduced lead time**
- **Field repairable**
- **Reduced torque at low pressure**

# Design Features

- **Mate-lapped Ball & Seat Set with high performance coating**
  - In-House proprietary thermal spray and lapping technology
  - Superior wear resistance
  - Reduced torque & extended sealing surface life
  - Class IV to VI Leakage, per customer request
- **Blowout proof, high strength, one-piece stem**
- **Wave spring generates precise loading of the ball/seat interface and graphite seals, allowing for:**
  - low torque operation
  - tight shutoff
  - thermal expansion throughout full range operating range
- **Graphite seals for high temp and chemical compatibility**
- **Galling-resistant Nitronic<sup>®</sup> 60 thrust washer for high temp**

## COMPONENTS & MATERIALS

ITEM / NAME	STAINLESS STEEL	CARBON STEEL	QTY.
1. Body	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1
2. End Cap	ASTM A351 Gr CF8M	ASTM A216 Gr WCB	1
3. Ball	ASTM A351 Gr CF8M/Chrome Carbide ASTM A351 Gr CF8M/Hard Chrome		1 •
4A. Upstream Seat	ASTM A351 Gr CF8M/Chrome Carbide ASTM A351 Gr CF8M/Stellite® 6		1 •
4B. Downstream Seat	ASTM A351 Gr CF8M/Chrome Carbide ASTM A351 Gr CF8M/Stellite® 6		1 •
5. Stem	SS660 or 17-4 PH		1
6. Body Seal	Spiral Wound (316/Graphite)		1 •
7. Body Nut	ASTM A194 Gr 8	ASTM A194 2H	*
8. Body Stud	ASTM A193 B8	ASTM A193 B7	*
44. Seat Seal	Graphite		1 •
45. Wave Spring	17-7 or Inconel® 718		1 •

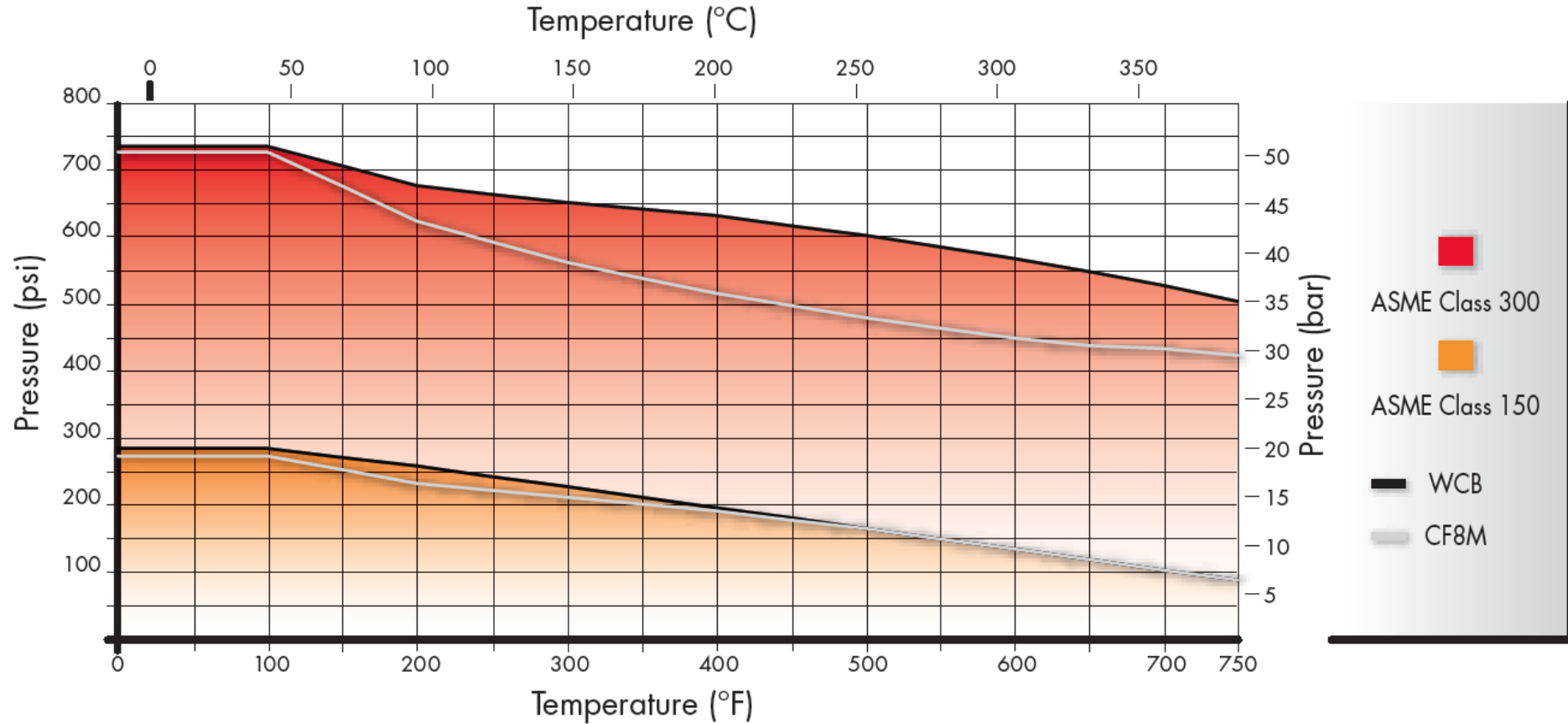




11.	Thrust Washer	UNS S21800 (Nitronic® 60)	1 •
14.	Stem Packing	Graphite	1 •
15.	Packing Gland	ASTM A167 Type 304	1
18.	Belleisle Washer	SS301	2
19.	Tab Lock Washer	SS304	1
23.	Travel Stop Sleeve	ASTM A167 Type 304	1
24.	Travel Stop Bolt	SS300	1
25.	Handle	SS304/ Ductile Iron 2½" and larger	1
26.	Lock Nut	ASTM A167 Type 304	2
28.	Handle Sleeve	Vinyl 2" [50mm]	1
29.	Locking Device	SS304	1



## Pressure/Temperature Ratings



## **Metal Seated Applications**

- **Chemical**
- **Refining**
- **Power**
- **Mining**
- **Pulp & Paper**
- **Pharmaceutical**
- **Food and beverage**
- **High Temp to 750°F / 400°C**
- **Abrasive applications**
- **Steam service**
- **Mild slurries**
- **Higher combination of temperature & pressure**
- **Gate Valve applications**

**FILLS THE GAP BETWEEN SOFT SEATS AND SEVERE SERVICE BALL VALVES**

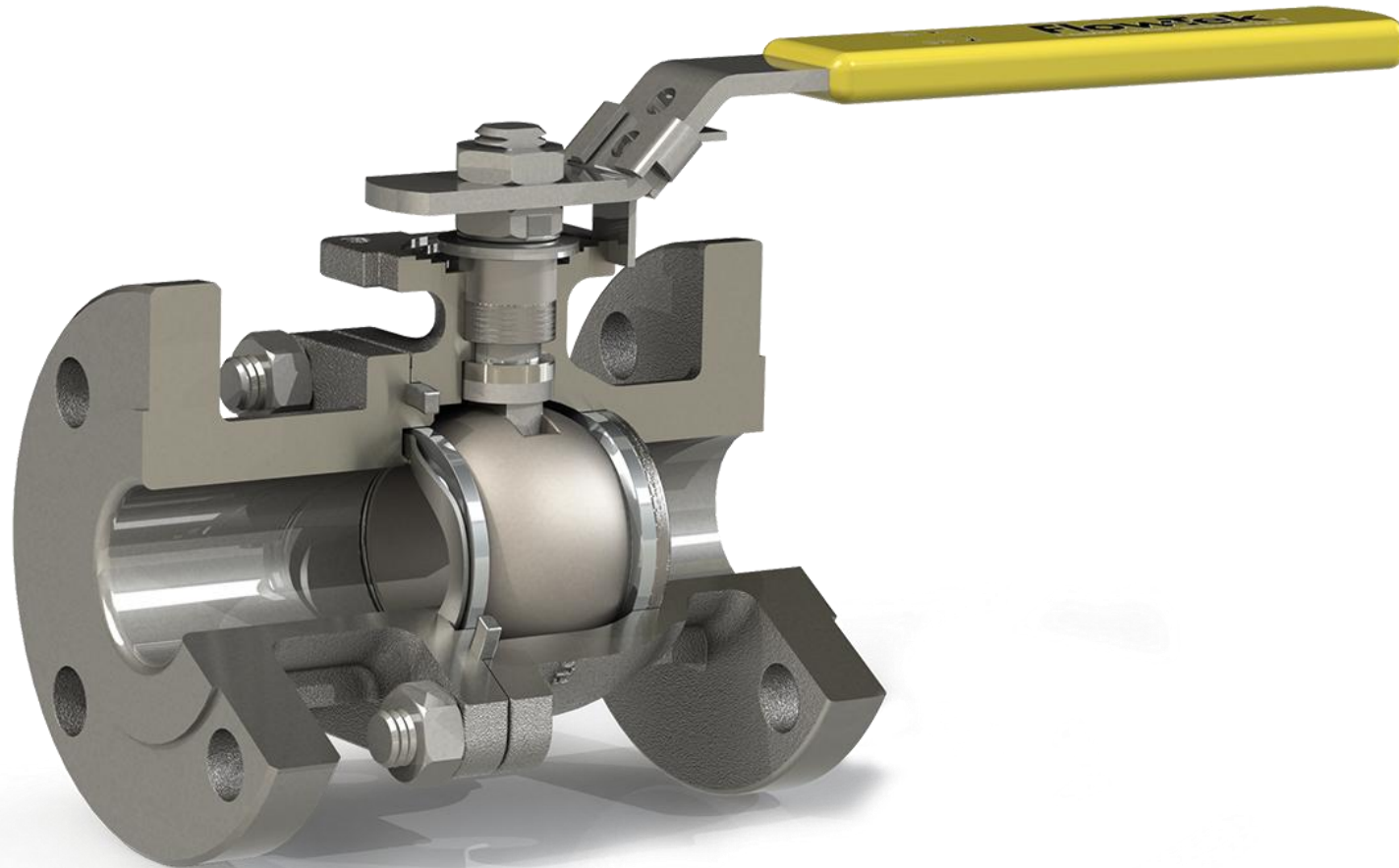
## **Certifications/Standards**

- **ASME B16.34**
- **ASME B16.10**
- **ASME B16.5 Class & DIN/EN PN Rated Flanges**
- **API 608**
- **API 607**
- **ISO 5211**
- **API 598, MSS SP-61, or ANSI FCI 70-2 Class IV – VI**
- **NACE MR0175**
- **CE/PED in-Progress**

## **Metal Seated FAQs**

- **Current seats only work in the F15/30**
- **Not designed for the RF15/30, Triad, etc.**
- **Current seats fit DIN/EN valves (FD10/FD40)**
- **Can be used for F15/F30 V-Port control valves (but not stocked in V-Port)**

# F15/F30 METAL SEATED



**Flow-Tek**<sup>®</sup>

# Flow-Tek<sup>®</sup>

A Subsidiary of BRAY INTERNATIONAL, Inc.

