



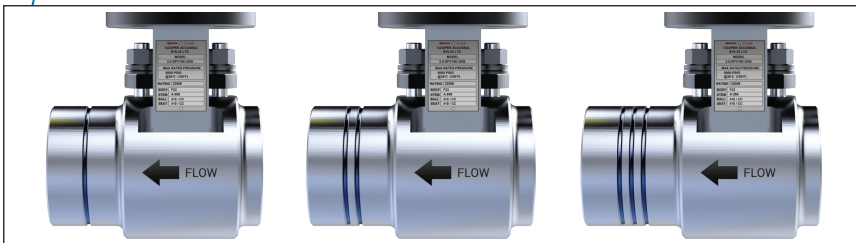
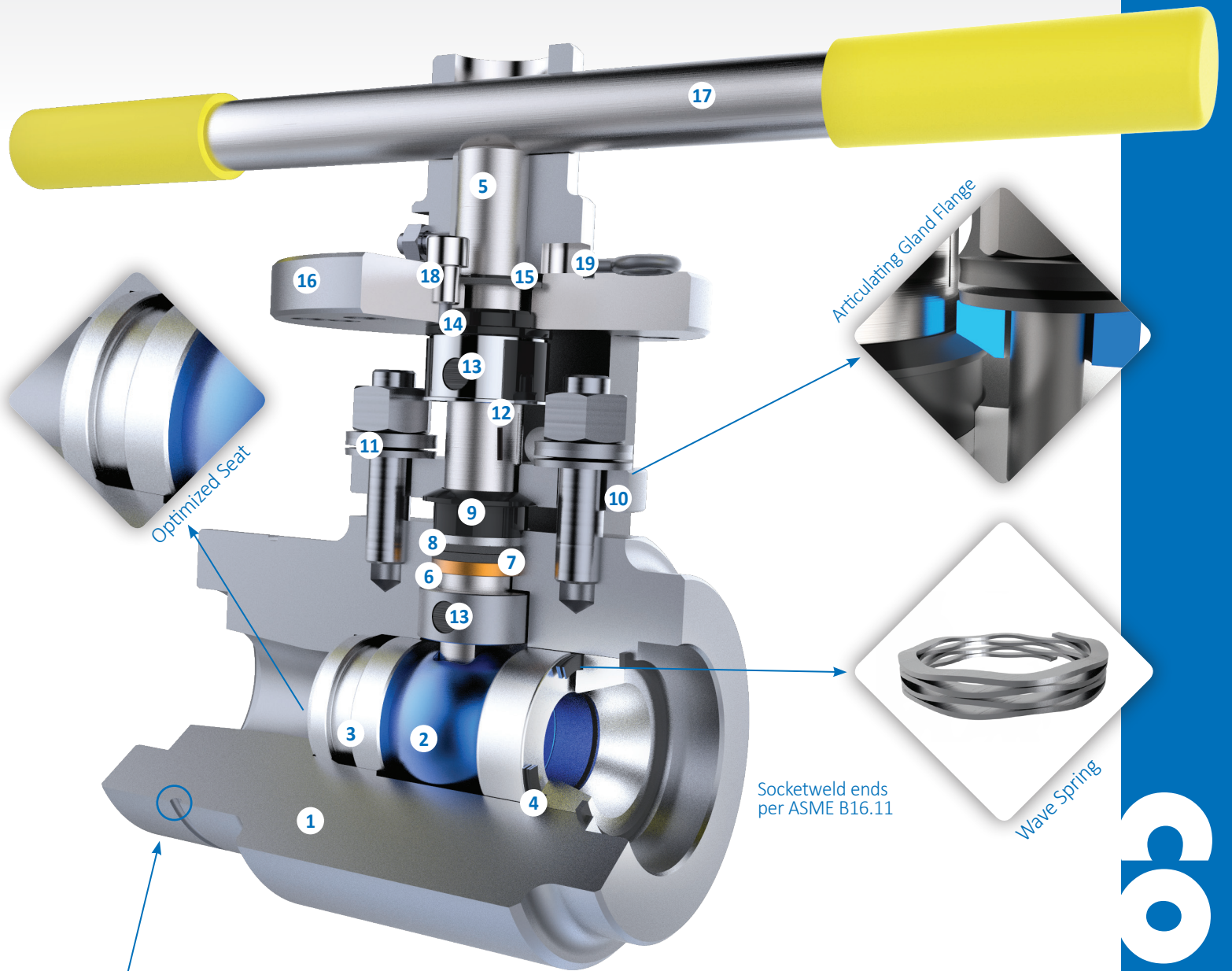
**COOPER**<sup>®</sup>  
Valves

ACCUSEAL<sup>®</sup> STEAM POWER VALVE (SPV)

# Accuseal® SPV Features & Benefits

- 1. Body** – One-piece machined forged bar stock
  - **Mechanical and chemical integrity ensured — NO body leaks**
  - **Extended uni-body design protects seat during Post Weld Heat Treat (PWHT)**
- 2. Ball – OMNI-LAP 360™**
  - **Optimized roundedness**
  - **100% seal eliminates leak path**
- 3. Seat**
  - **Optimized seat geometry maintains maximum seal, even during thermal transience**
  - **Ball and seat are same material ensuring matched thermal expansion rates**
- 4. Wave Spring**
  - **Superior performance to Belleville springs**
  - **More predictable force on ball to seat seal— even at low pressure**
  - **Longer spring life** means longer valve life
- 5. Stem** – One piece with surface hardening
  - **Eliminates galling** potential between rotating parts
  - **Stem standard ASME keyed for reliable adaption**
- 6. Packing Bushing**
  - **Prevents packing intrusion** into body
  - **Eliminates lateral stem motion**
  - **Most secure stem seal — regardless of orientation**
- 7. Grafoil Packing Rings**
  - **Premium die-formed**
  - **Pre-stressed to a specific density**
  - **Optimal packing resiliency for extended life**
- 8. Grafoil Anti-Extrusion Ring**
  - **Die-formed with skive-cut Inconel wire reinforcement**
  - **Prevents packing extrusion**
- 9. Packing Follower**
  - **Thermally matched to the stem material**
  - **Prevents galling** and contains upper packing
- 10. Articulating Gland Flange**
  - **Spherically engages with packing follower**
  - **Prevents stem binding and galling** during adjustments
- 11. Live Loaded Packing**
  - **Standard with Belleville spring washers**
  - **Eliminates routine gland adjustments**
  - **Reduces maintenance**
  - **Guarantees zero stem emissions**
- 12. Open/Closed Indicator**
  - **Scribed lines on stem and articulating gland flange**
  - **Ensures proper ball to seat alignment**
  - **Positive Open/Closed indicator**
- 13. Dual Inconel 718 Pins**
  - **Oversized pins contained in thrust collars**
  - **Blow-out proof stem** to ASME B16.34
- 14. Outboard Guide Bearing**
  - **Provides positive stem alignment**
  - **Prevents lateral stem motion**
- 15. External Stem Retaining Ring**
  - **Prevents ball misalignment** during actuator installation
  - **Stem cannot be forced into ball stem slot**
- 16. Mounting Flange**
  - **Precision machined to ISO 5211**
  - **External mounting flange provides rigid mounting for ease of actuation**
  - **Direct mounting option reduces hysteresis and stem deflection**
- 17. Handle** – T-handle style
  - **Adjusts for clearance in either direction**
  - **Worm gear or automated packages available**
- 18. Precision Mechanical Stop**
  - **Prevents over-travel**
  - **Both lever-operated and automated valves are positively aligned**
- 19. Lockout Standard**
  - **Fulfills Open/Closed lockout requirements**

COOPER®



1 ring= F22

2 rings = A105

3 rings = F91

PWHT guide line per ASME B31.1 (see IOM for details)

<b>FLOW</b> <b>COOPER ACCUSEAL</b> <b>B16.34 LTD</b>	
MODEL	2.00-SPV106-3200
MAX RATED PRESSURE	8000 PSIG @38°C (100°F)
RATING	3200#
BODY	A182 F22 CLASS 3
STEM	A-286
BALL	410 / CC
SEAT	410 / CC
	○

Nameplate

# COOPER<sup>®</sup>

# Accuseal<sup>®</sup> SPV

## Applications

Vents and Drains during start-up and shut-down. An alternative to globe and gate valves giving you a straight thru bore, quarter turn, pressure assisted Omni-Lap 360<sup>°</sup>™ ball valve.

## Sizes

½" – 2½" (various bore sizes available)

## Pressure Class

600- 4500 Limited Class

## Connections

- SW – ASME B16.11 (Standard)
- BW – ASME B16.25
- Hub connectors
- Per customer specifications

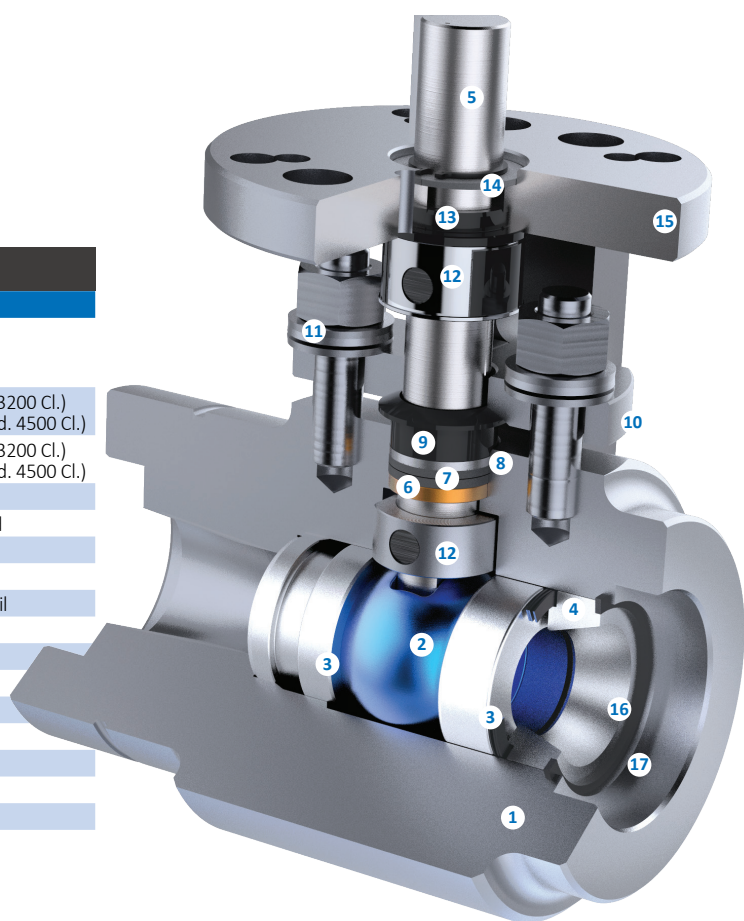
**5 year warranty standard**

*1 year warranty on High Cycle Applications  
(Contact COOPER<sup>®</sup> Valves for details)*

BILL OF MATERIALS - ACCUSEAL <sup>®</sup> SPV		
ITEM	DESCRIPTION	MATERIAL
1	Body	A105 A182 F22 Cl.3 A182 F91
2	Ball	410 SS / CC Coating (Std. 600-3200 Cl.) Inconel 718 / Spray & Fuse (Std. 4500 Cl.)
3	Seat	410 SS / CC Coating (Std. 600-3200 Cl.) Inconel 718 / Spray & Fuse (Std. 4500 Cl.)
4	Wave Spring	A-286
5	Stem	Inconel 718 / A-286 Hardfaced
6	Packing Bushing	316 SS Hardfaced
7	Packing Rings	Grafoil
8	Anti-Extrusion Ring	Inconel Wire Reinforced Grafoil
9	Packing Follower	316 SS Hardfaced
10	Articulating Gland Flange	4130 Hardfaced
11	Live Loading Belleville Springs	Stainless Steel
12	Retaining Pins	Inconel 718
13	Guide Bearing	Ni-Al-Brz
14	Stem Retaining Ring	Stainless Steel
15	Mounting Flange	Carbon Steel
16	Transition Piece	410 SS
17	Load Ring/Retaining Ring	A-286

Special alloys and coatings available upon request

CC = Chrome Carbide coating



## Features and Benefits

- Omni-Lap 360<sup>°</sup>™ optimized roundedness and matched ball and seats assemblies ensure 100% seal
- Application specific coatings
- Withstands severe thermal shocks
- Vacuum tested ball and seat ensures Class VI shut-off before valve assembly
- Wave spring maximizes thermal cycling strength for longer life
- ISO 5211 Mounting Patterns