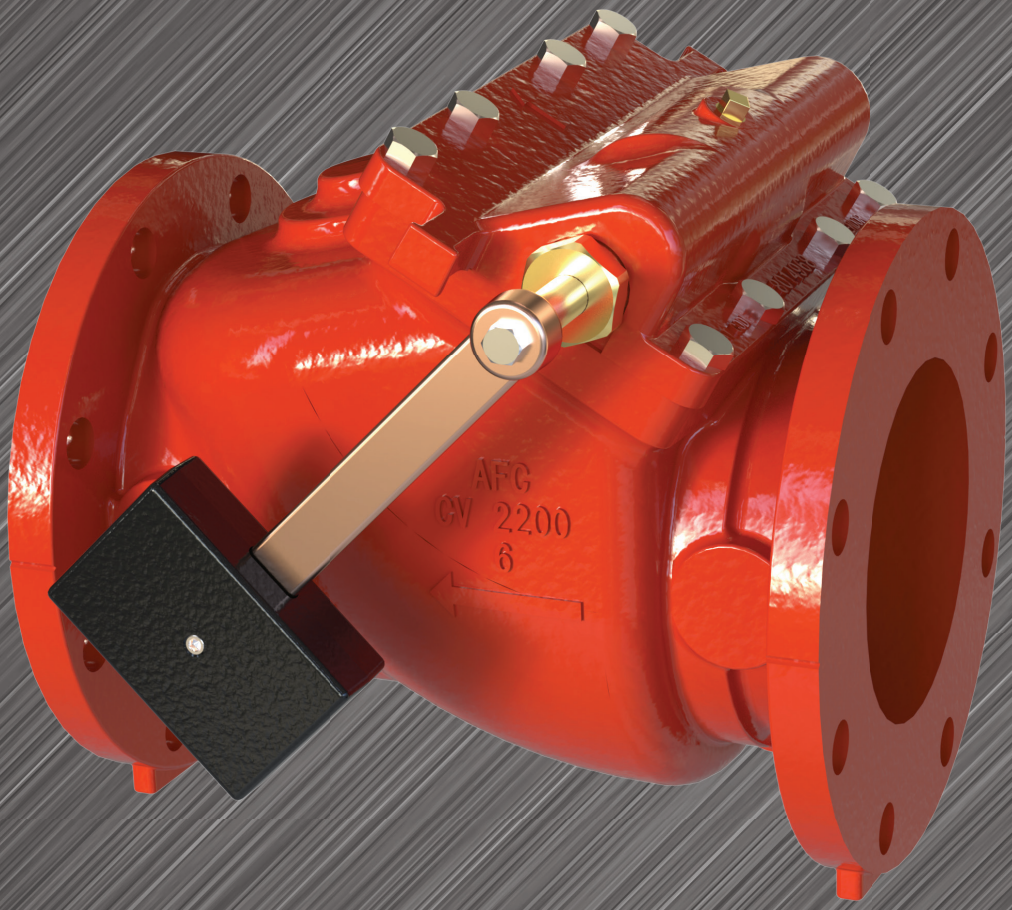
3" - 12" SERIES CV 2200 SWING CHECK VALVES
BY AMERICAN FLOW CONTROL®



AMERICAN
FLOW CONTROL

SERIES CV 2200 FEATURES/BENEFITS

AMERICAN Flow Control's Series CV 2200 Swing Check Valves are in full compliance with ANSI/AWWA C508 with a rated working pressure of 350 psig. Configurations are available that are UL Listed with a rated working pressure of 350 psig.

BODY AND BONNET
The check valve body and bonnet are constructed of ductile iron and coated with fusion-bonded epoxy inside and outside.

DISC
The disc is constructed of bronze and is available in either resilient or metal seated configurations. The resililient seated disc is equipped with a rubber seal to provide closure, even at low pressure.

DISC AND ARM ASSEMBLY
The disc and arm assembly are attached to the bonnet for ease of removal. Removing the bonnet will remove the disc and arm assembly from the check valve.

SHAFT
The shaft is constructed of Type 316 stainless steel. In addition to the standard inside shaft configuration, an external shaft is also available for the use of a weight or spring assist for applications where rapid flow reversals may be encountered. The external shaft may be configurated to exit either or both sides of the valve.

SHAFT SUPPORTS
The shaft is held in place by corrosion resistant bronze shaft supports. These supports also act as wear-resistant bearings and are easily removed for disassembly of internal parts.

CLEAR WATERWAY
These check valves have a “Clear Waterway” per MSS SP-136. Swing check valves with a Clear Waterway, when fully open, have an unobstructed cylindrical flow path through the valve.

AMERICAN Flow Control Series CV 2200 Swing Check Valves have these standard features:

- Complies with ANSI/AWWA C508
- Type 316 Stainless Steel Shaft
- Clear Waterway per MSS SP-136
- Bronze Arm
- Ductile Iron Body & Bonnet
- Metal Seated Disc or Resilient Seated Bronze Disc
- Type 316 Stainless Steel Body to Bonnet Bolting
- Coated in Accordance with ANSI/AWWA C550
- Certified to NSF/ANSI/CAN 61
- Certified to NSF/ANSI/CAN 372
- Available as UL Listed (in applicable configurations)

SAMPLE SPECIFICATION

Swing check valves shall be manufactured from ductile iron meeting or exceeding ASTM A536. Valves shall comply with ANSI/AWWA C508, latest revision. The rated working pressure of check valves 3”-12” shall be 350 psig with a test pressure of 700 psig and be UL Listed (in applicable configurations). Check valves shall be designed with clear waterway opening per MSS SP-136.

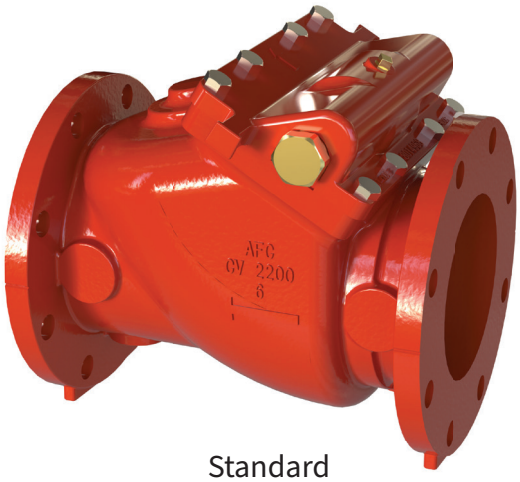
The arm shall be constructed of high-strength bronze. The shaft shall be constructed of Type 316 stainless steel. The disc and seat ring shall be constructed of bronze. The resilient disc shall be equipped with a nitrile rubber seal recessed into the disc face to provide a positive seal against the seat ring. In applications where slam surge may occur, outside lever and weight or spring shall be available.

Check valve disc and arm assembly shall be assembled to the bonnet using corrosion resistant shaft supports to reduce wear and increase service life. Check valve disc and arm assembly shall be attached to the bonnet and be removable from the check valve body without having to remove the check valve from the pipeline. Disassembly of valve internals shall require no special tools other than standard socket wrenches. The valve (all sizes) shall be constructed with lifting lugs to facilitate installation and field servicing.

Check valve bodies and bonnets shall be coated with fusion-bonded epoxy in accordance with ANSI/AWWA C550. All body to bonnet fasteners shall be Type 316 stainless steel and be provided with hexagonal heads with dimensions conforming to ANSI B18.2.1. Metric size and/or socket head cap screws, or bolts, are not allowed.

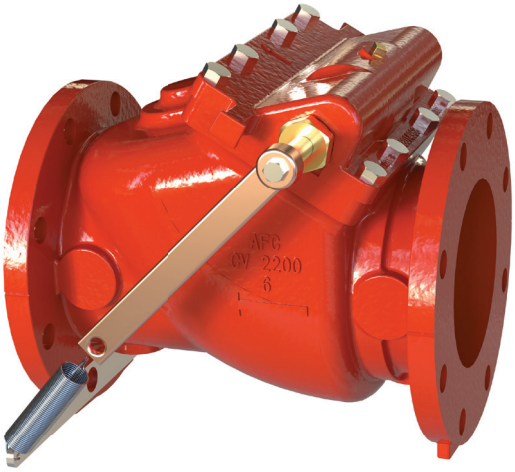
Check valves shall be Series CV 2200 Swing Check Valves by AMERICAN Flow Control.

3" - 12" AVAILABLE CONFIGURATIONS



Standard

Single Lever & Weight

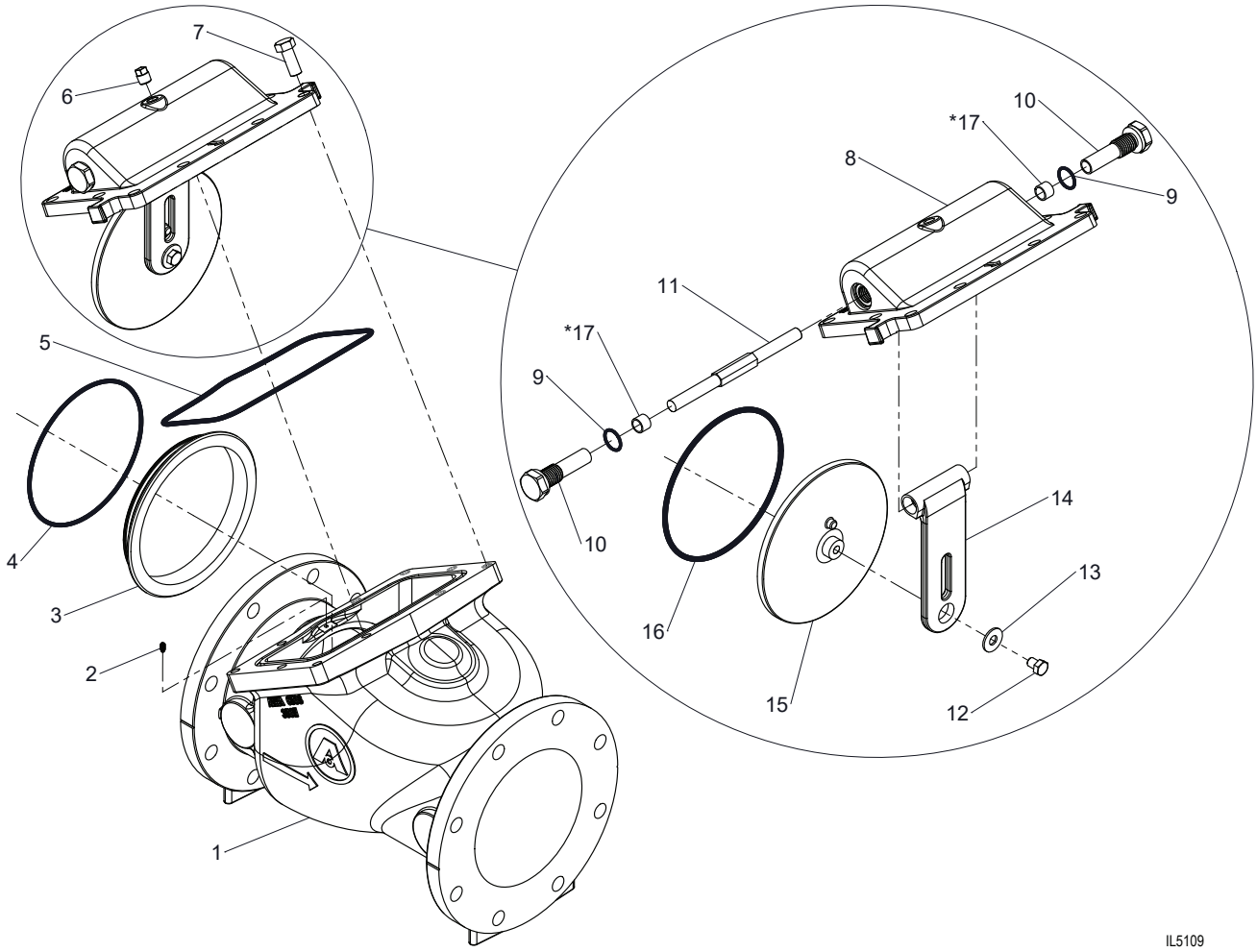


Single Lever & Spring

Dual Lever & Weight

Dual Lever & Spring

STANDARD INSIDE SHAFT, RESILIENT SEATED PARTS LIST

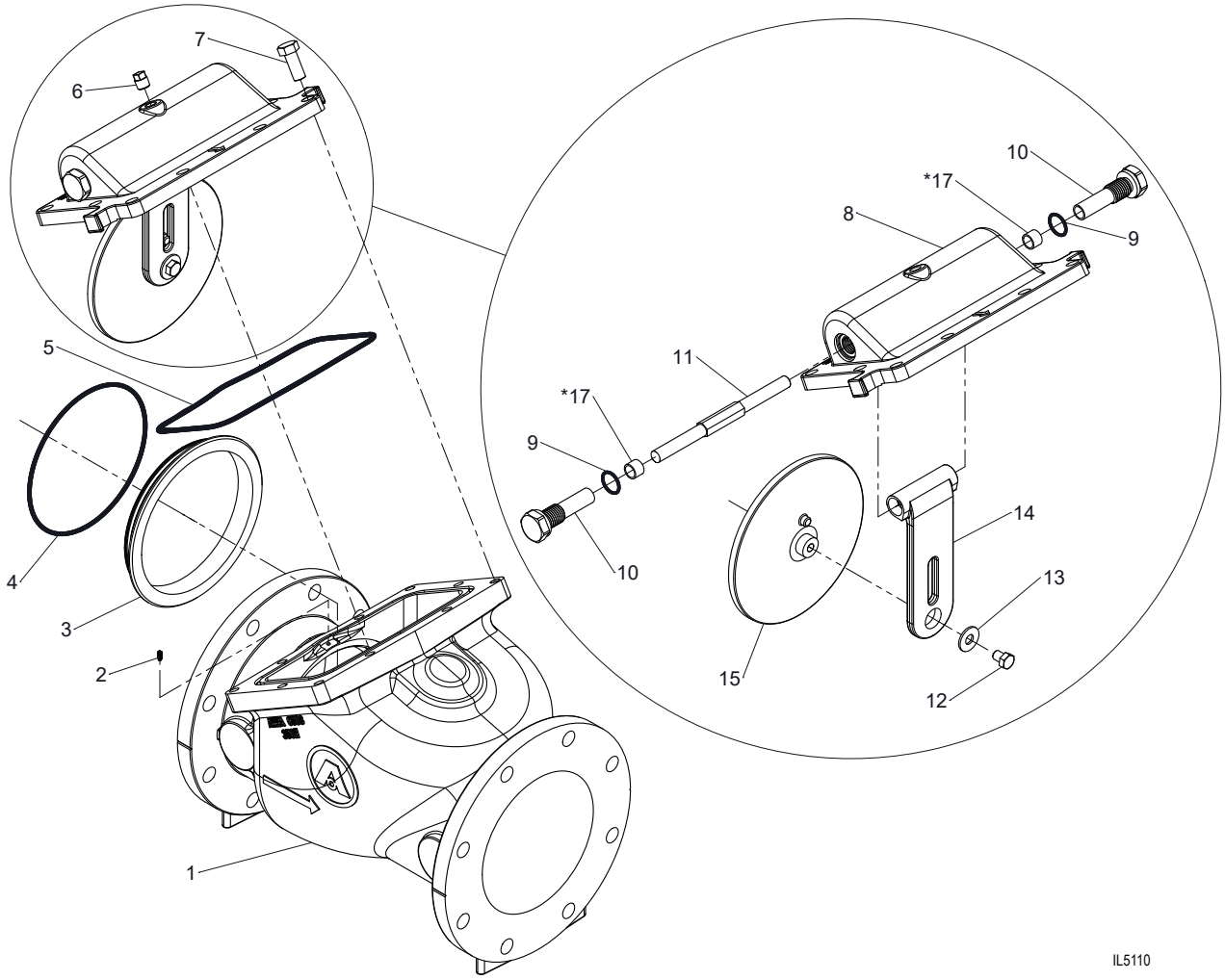


IL5109

REF NO.	DESCRIPTION	MATERIAL
1	Body	Ductile Iron, ASTM A536
2	Set Screw	316 Stainless Steel
3	Seat Ring	Silicon Bronze, ASTM B584, UNS C87600
4	O-ring	Nitrile Rubber
5	Bonnet Gasket	Nitrile Rubber
6	Pipe Plug	Brass
7	Hex Head Bolt	316 Stainless Steel
8	Bonnet	Ductile Iron, ASTM A536
9	O-ring	Nitrile Rubber
10	Shaft Support, Closed	Brass, ASTM B16/B16M
11	Inside Shaft	316 Stainless Steel
12	Hex Head Bolt	316 Stainless Steel
13	Washer	316 Stainless Steel
14	Arm	Silicon Bronze, ASTM B584, UNS C87600
15	Disc, Resilient-Seated	Silicon Bronze, ASTM B584, UNS C87600
16	O-ring	Nitrile Rubber
*17	Bushing	Brass, ASTM B16/B16M

*Used on 8” & 12” check valve sizes only.

STANDARD INSIDE SHAFT, METAL SEATED PARTS LIST

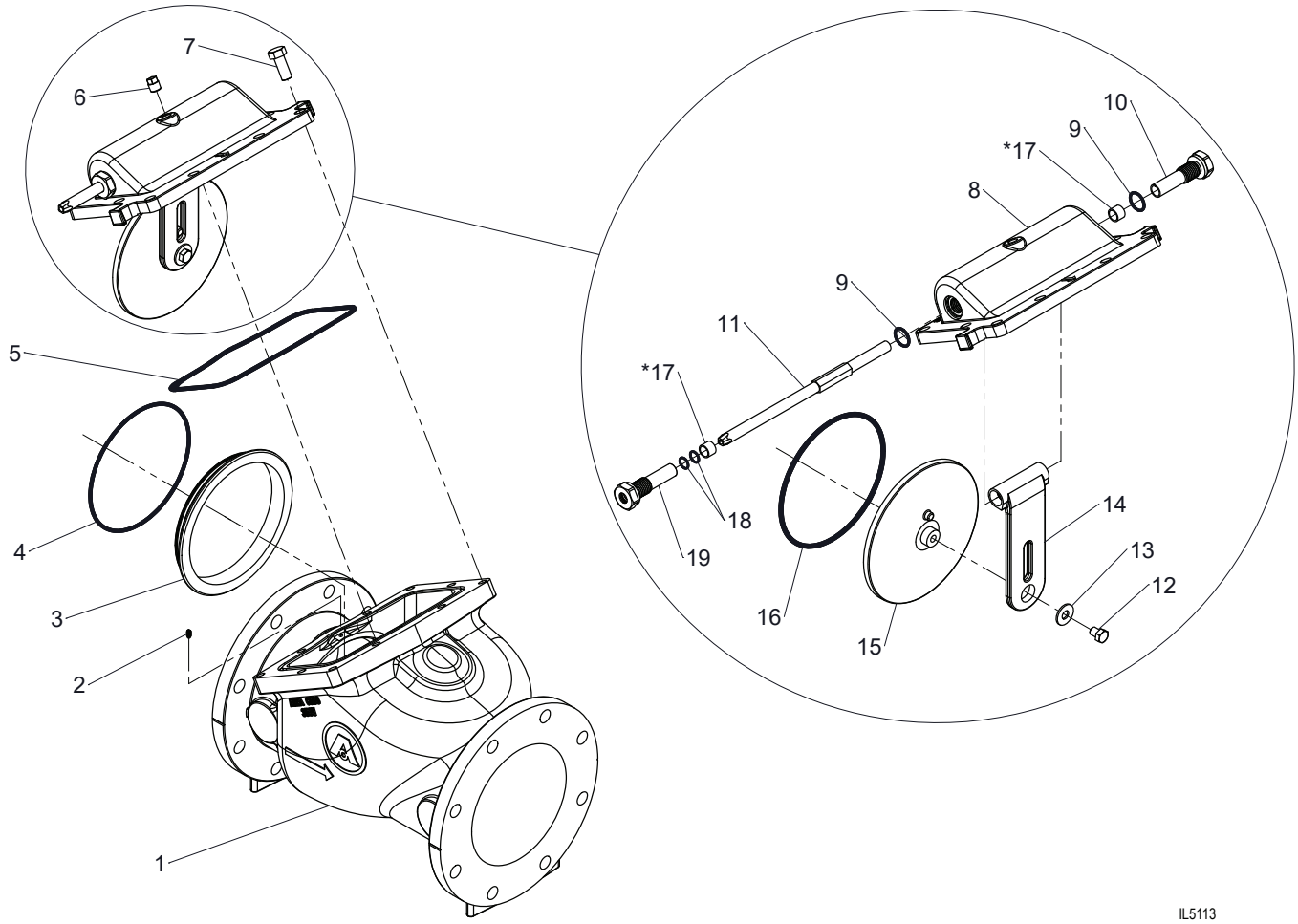


IL5110

REF NO.	DESCRIPTION	MATERIAL
1	Body	Ductile Iron, ASTM A536
2	Set Screw	316 Stainless Steel
3	Seat Ring	Silicon Bronze, ASTM B584, UNS C87600
4	O-ring	Nitrile Rubber
5	Bonnet Gasket	Nitrile Rubber
6	Pipe Plug	Brass
7	Hex Head Bolt	316 Stainless Steel
8	Bonnet	Ductile Iron, ASTM A536
9	O-ring	Nitrile Rubber
10	Shaft Support, Closed	Brass, ASTM B16/B16M
11	Inside Shaft	316 Stainless Steel
12	Hex Head Bolt	316 Stainless Steel
13	Washer	316 Stainless Steel
14	Arm	Silicon Bronze, ASTM B584, UNS C87600
15	Disc, Metal-Seated	Silicon Bronze, ASTM B584, UNS C87600
*17	Bushing	Brass, ASTM B16/B16M

*Used on 8” & 12” check valve sizes only.

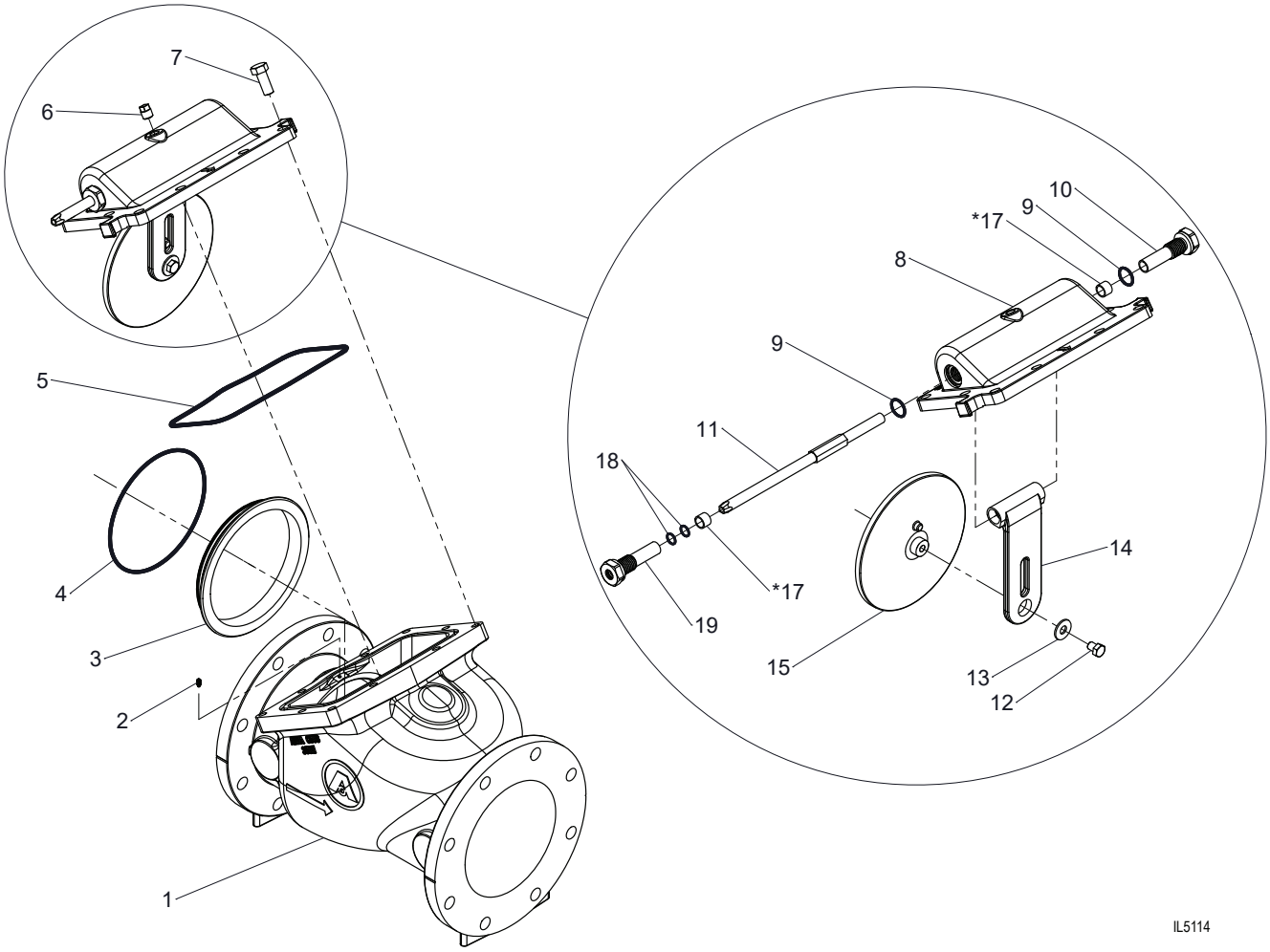
SINGLE OUTSIDE SHAFT, RESILIENT SEATED PARTS LIST



REF NO.	DESCRIPTION	MATERIAL
1	Body	Ductile Iron, ASTM A536
2	Set Screw	316 Stainless Steel
3	Seat Ring	Silicon Bronze, ASTM B584, UNS C87600
4	O-ring	Nitrile Rubber
5	Bonnet Gasket	Nitrile Rubber
6	Pipe Plug	Brass
7	Hex Head Bolt	316 Stainless Steel
8	Bonnet	Ductile Iron, ASTM A536
9	O-ring	Nitrile Rubber
10	Shaft Support, Closed	Brass, ASTM B16/B16M
11	Single Shaft	316 Stainless Steel
12	Hex Head Bolt	316 Stainless Steel
13	Washer	316 Stainless Steel
14	Arm	Silicon Bronze, ASTM B584, UNS C87600
15	Disc, Resilient-Seated	Silicon Bronze, ASTM B584, UNS C87600
16	O-ring	Nitrile Rubber
*17	Bushing	Brass, ASTM B16/B16M
18	O-ring	Nitrile Rubber
19	Shaft Support, Open	Brass, ASTM B16/B16M

*Used on 8” & 12” check valve sizes only.

SINGLE OUTSIDE SHAFT, METAL SEATED PARTS LIST

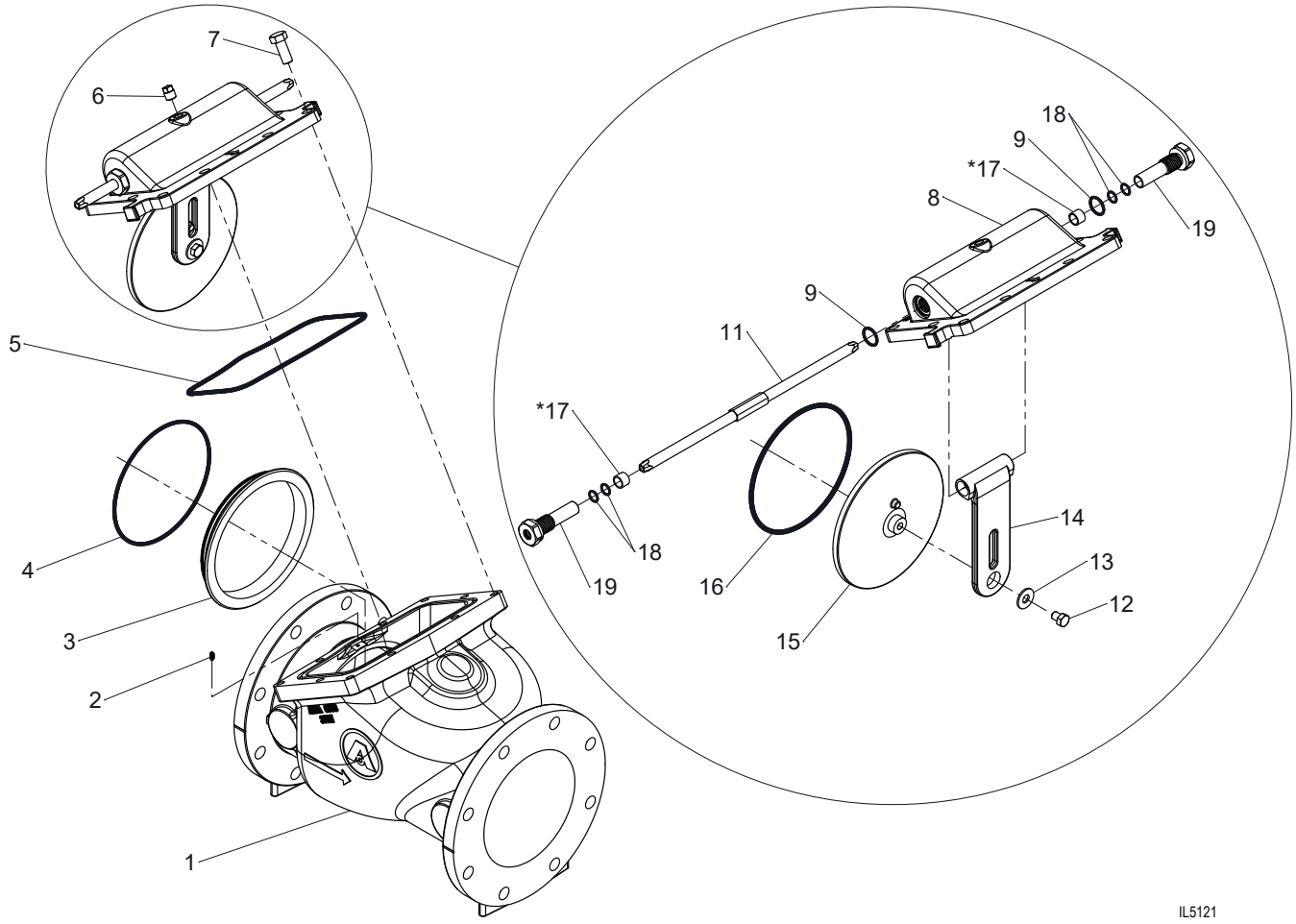


IL5114

REF NO.	DESCRIPTION	MATERIAL
1	Body	Ductile Iron, ASTM A536
2	Set Screw	316 Stainless Steel
3	Seat Ring	Silicon Bronze, ASTM B584, UNS C87600
4	O-ring	Nitrile Rubber
5	Bonnet Gasket	Nitrile Rubber
6	Pipe Plug	Brass
7	Hex Head Bolt	316 Stainless Steel
8	Bonnet	Ductile Iron, ASTM A536
9	O-ring	Nitrile Rubber
10	Shaft Support, Closed	Brass, ASTM B16/B16M
11	Single Shaft	316 Stainless Steel
12	Hex Head Bolt	316 Stainless Steel
13	Washer	316 Stainless Steel
14	Arm	Silicon Bronze, ASTM B584, UNS C87600
15	Disc, Metal-Seated	Silicon Bronze, ASTM B584, UNS C87600
*17	Bushing	Brass, ASTM B16/B16M
18	O-ring	Nitrile Rubber
19	Shaft Support, Open	Brass, ASTM B16/B16M

*Used on 8” & 12” check valve sizes only.

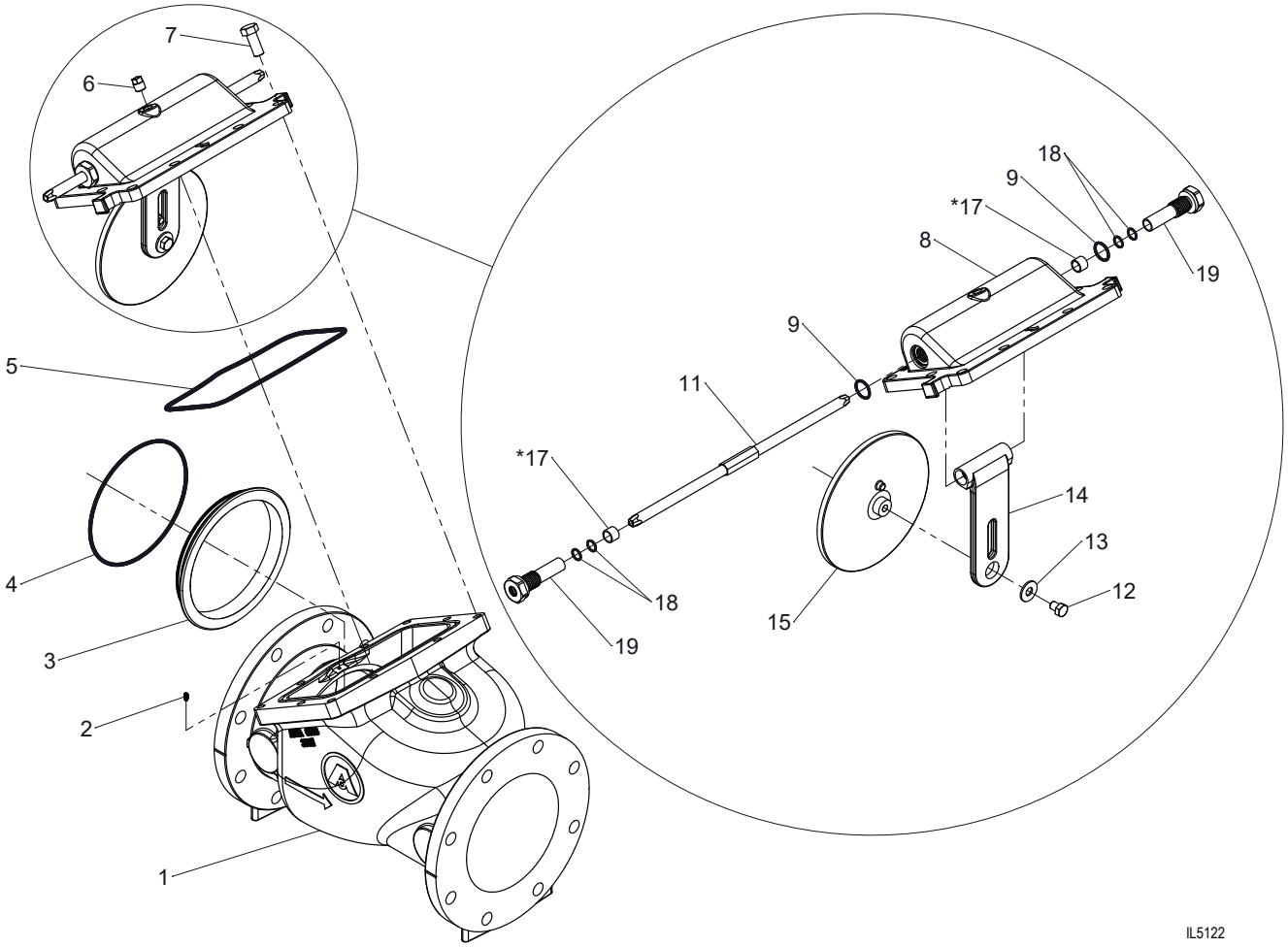
DUAL OUTSIDE SHAFT, RESILIENT SEATED PARTS LIST



REF NO.	DESCRIPTION	MATERIAL
1	Body	Ductile Iron, ASTM A536
2	Set Screw	316 Stainless Steel
3	Seat Ring	Silicon Bronze, ASTM B584, UNS C87600
4	O-ring	Nitrile Rubber
5	Bonnet Gasket	Nitrile Rubber
6	Pipe Plug	Brass
7	Hex Head Bolt	316 Stainless Steel
8	Bonnet	Ductile Iron, ASTM A536
9	O-ring	Nitrile Rubber
11	Dual Shaft	316 Stainless Steel
12	Hex Head Bolt	316 Stainless Steel
13	Washer	316 Stainless Steel
14	Arm	Silicon Bronze, ASTM B584, UNS C87600
15	Disc, Resilient-Seated	Silicon Bronze, ASTM B584, UNS C87600
16	O-ring	Nitrile Rubber
*17	Bushing	Brass, ASTM B16/B16M
18	O-ring	Nitrile Rubber
19	Shaft Support, Open	Brass, ASTM B16/B16M

*Used on 8” & 12” check valve sizes only.

DUAL OUTSIDE SHAFT, METAL SEATED PARTS LIST

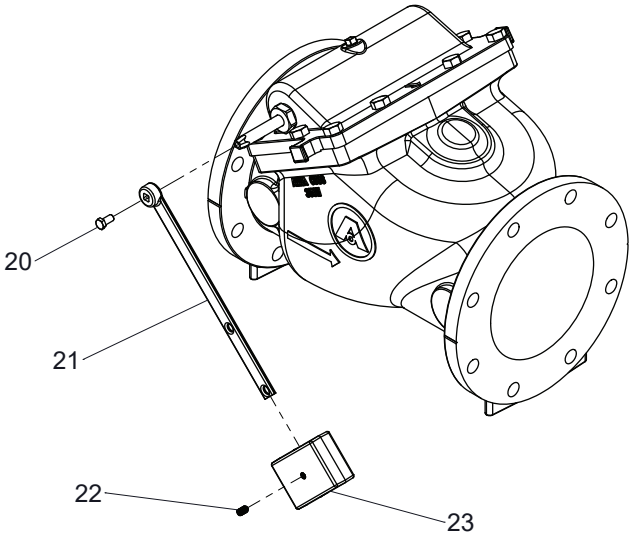


IL5122

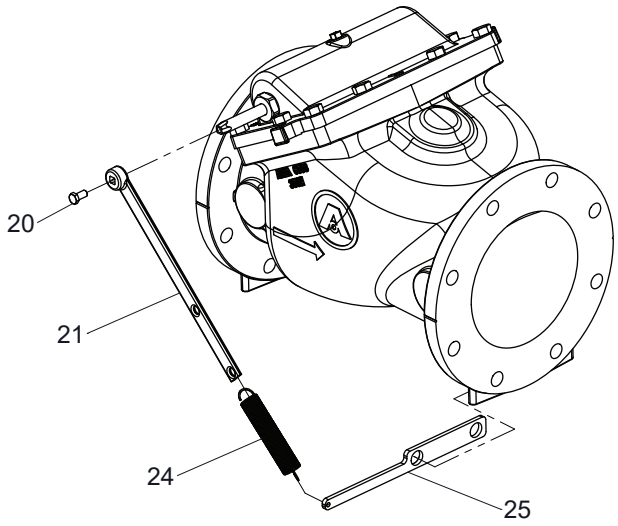
REF NO.	DESCRIPTION	MATERIAL
1	Body	Ductile Iron, ASTM A536
2	Set Screw	316 Stainless Steel
3	Seat Ring	Silicon Bronze, ASTM B584, UNS C87600
4	O-ring	Nitrile Rubber
5	Bonnet Gasket	Nitrile Rubber
6	Pipe Plug	Brass
7	Hex Head Bolt	316 Stainless Steel
8	Bonnet	Ductile Iron, ASTM A536
9	O-ring	Nitrile Rubber
11	Dual Shaft	316 Stainless Steel
12	Hex Head Bolt	316 Stainless Steel
13	Washer	316 Stainless Steel
14	Arm	Silicon Bronze, ASTM B584, UNS C87600
15	Disc, Metal-Seated	Silicon Bronze, ASTM B584, UNS C87600
*17	Bushing	Brass, ASTM B16/B16M
18	O-ring	Nitrile Rubber
19	Shaft Support, Open	Brass, ASTM B16/B16M

*Used on 8” & 12” check valve sizes only.

SINGLE OUTSIDE SHAFT WEIGHT/SPRING KIT PARTS LIST



LEVER AND WEIGHT KIT



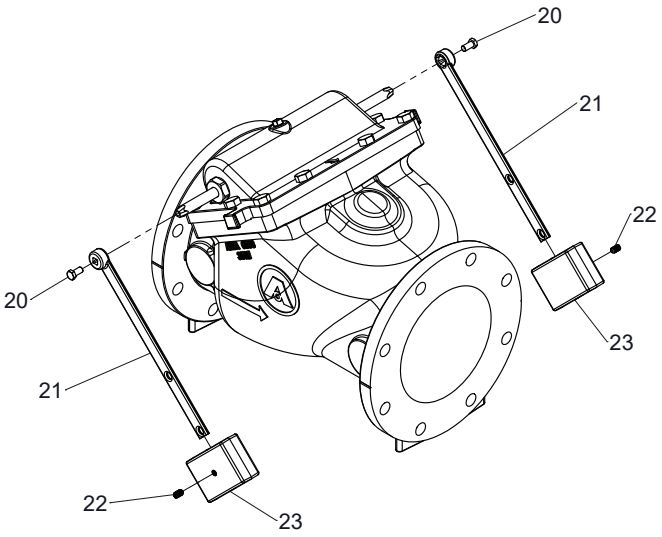
LEVER AND SPRING KIT

IL5113

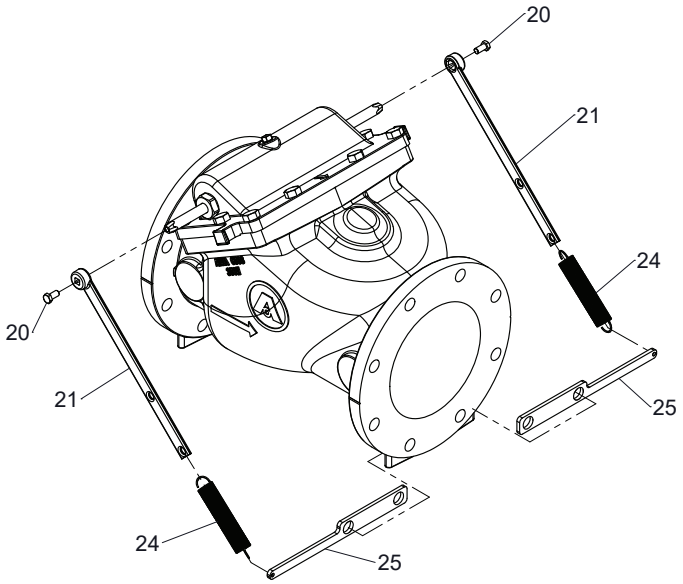
REF NO.	DESCRIPTION	MATERIAL
20	Hex Head Bolt	316 Stainless Steel
21	Lever	Silicon Bronze, ASTM B584, UNS C87600
22	Set Screw	316 Stainless Steel
23	Weight	Cast Iron, ASTM A126, Class B
24	Spring	302 Stainless Steel
25	Bracket	300 Series Stainless Steel

Note: These kits are shipped loose and are to be installed on the valve at the time of installation.

DUAL OUTSIDE SHAFT WEIGHT/SPRING KIT PARTS LIST



LEVER AND WEIGHT KIT



LEVER AND SPRING KIT

IL5122

REF NO.	DESCRIPTION	MATERIAL
20	Hex Head Bolt	316 Stainless Steel
21	Lever	Silicon Bronze, ASTM B584, UNS C87600
22	Set Screw	316 Stainless Steel
23	Weight	Cast Iron, ASTM A126, Class B
24	Spring	302 Stainless Steel
25	Bracket	300 Series Stainless Steel

Note: These kits are shipped loose and are to be installed on the valve at the time of installation.

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EOE/Vets/Disabilities

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