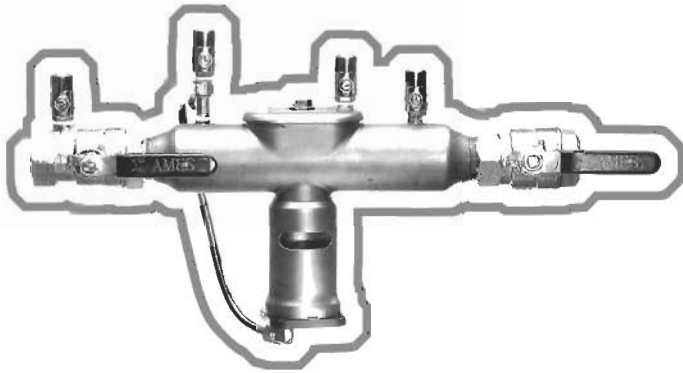


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Model 4000SS Reduced Pressure Principle 3/4" to 2"



FEATURES

- Non-corrosive 300 series stainless steel (lead free) construction. Superior strength.
- Fully serviceable inline, no special tools.
- Low pressure loss.
- Pretested cartridge check assembly for long term reliability, ease of serviceability.
- Single top entry inspection port for easy servicing.
- ASSE 1013 approved assembly.
- Optional air gap drain.
- Hot and cold water applications.
- Optional wye strainer.
- 175 PSI rated working pressure.
- Straight through flow-way.

APPLICATIONS

The Ames 4000ss provides protection to the potable water supply from contamination caused by a cross connection in a high hazard application.

INSTALLATION

The 4000ss should be installed with a minimum clearance of 12" between the lowest point of the assembly and the floor or grade. The 4000ss may be installed horizontally or vertically (flow up). Refer to local codes for specific installation requirements.

SPECIFICATIONS

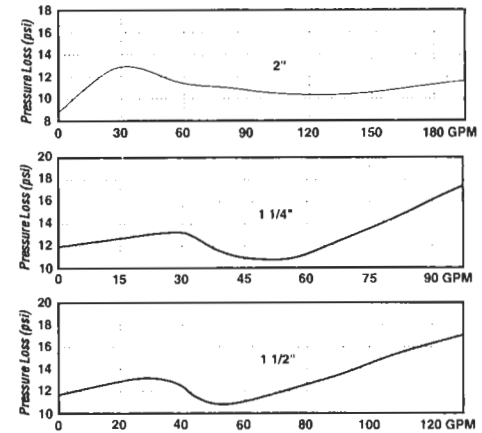
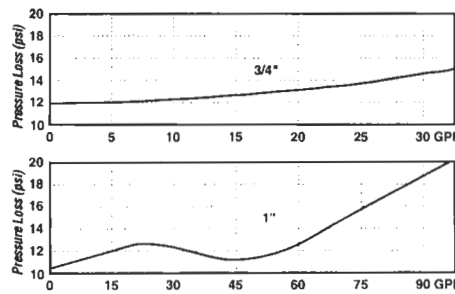
The reduced pressure backflow preventer shall consist of two independently operating, spring loaded cartridge checks with a hydraulically operated differential pressure relief valve located between and below the cartridge checks, required test cocks and optional inlet and outlet resilient seat ball type shut off valves. When normal flow exists, both checks are open and the pressure in the area between the checks, called the zone, is at least 2 PSI lower than the inlet pressure. The differential pressure relief valve is closed during normal flow.

If cessation of normal flow occurs, the differential pressure relief valve will automatically open and discharge to maintain the zone at least 2 PSI lower than the inlet pressure. This action will prevent a backflow or back siphonage condition. After the required differential is established, the differential pressure relief valve again closes.

CHARACTERISTICS

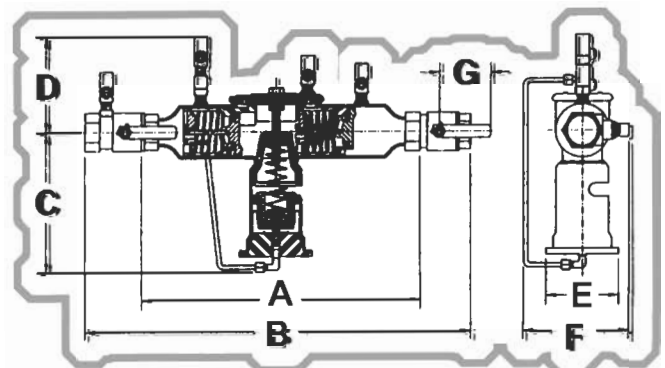
Sizes - 3/4", 1", 1 1/4", 1 1/2", 2"
Rated working pressure - 175 psi
Temperature range - 32°F - 110°F
Construction 300 series stainless steel
Assembly shall be ASSE 1013 approved for vertical installations.

FLOW CURVES



DIMENSIONS & WEIGHTS

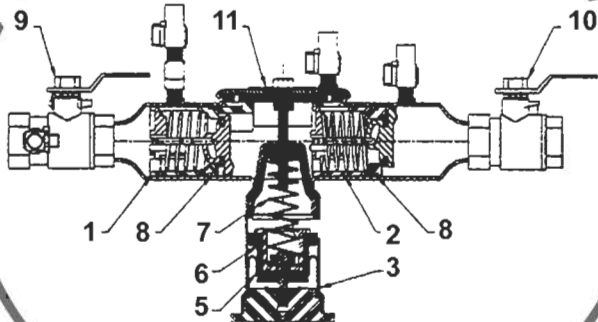
SIZE	A	B	C	D	E	F	H	Net Wt. (lb.) w/Ball Valves	Net Wt. (lb.) w/o Ball Valves
3/4"	10 3/4"	15"	5 1/2"	3 5/8"	2 3/4"	5"	4"	5.75#	4#
1"	10 3/4"	16"	5 1/2"	3 5/8"	2 3/4"	5 1/4"	4 1/2"	6.75#	4#
1 1/4"	10 3/4"	16 1/2"	5 1/2"	3 5/8"	2 3/4"	5 1/2"	4 3/4"	8#	4#
1 1/2"	10 3/4"	17 1/2"	5 1/2"	3 5/8"	2 3/4"	5 1/2"	4 3/4"	10.50#	4#
2"	15"	25"	7"	4"	2 3/4"	5 1/2"	6 1/2"	25.75#	14 3/4#



Model 4000SS Sizes 3/4" to 2"

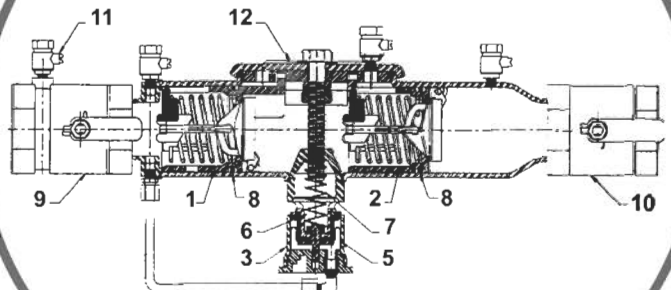
Repair Parts

3/4" to 1-1/2"



3/4" - 1 1/2" Body Configuration

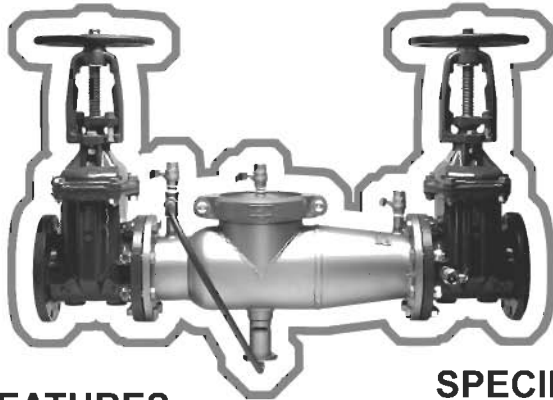
DESCRIPTION	QTY.	PART #
1. 1st Cartridge Check Assy.	1	A00006-04081
2. 2nd Cartridge Check Assy.	1	A00006-04082
3. Relief Valve Assembly	1	A00006-04042
4. Rubber Kit (Lid O-Ring, Cartridge Check O-Rings, Washer, Lid Bolt, Relief Valve O-Ring, Lubricant not shown)	1	A00006-04098
5. Relief Valve Diaphragm	1	A00006-03540
6. Relief Valve Piston Assembly	1	A00006-03581
7. Relief Valve Spring	1	A00006-03573
8. Cartridge Check O-Ring	1	A00006-04014
9. Shut-Off Ball Assembly - Inlet 2	1	A00006-03108
10. Shut-Off Ball Assembly- Outlet 2	1	A00006-03107
11. Test Cock	4	A00006-03117
12. Lid Assembly (Lid, Lid Insert, Lid O-Ring, Nut, Bolt, Washer, Lubricant not shown)	1	A00006-04085



2" Body Configuration

2"

DESCRIPTION	QTY.	PART #	
1. 1st Cartridge Check Assy.	1	A00006-03502	
2. 2nd Cartridge Check Assy.	1	A00006-03501	
3. Relief Valve Assembly 3/4 - 1 1/4	1	A00006-04041	
Relief Valve Assembly 1 1/2	1	A00006-04042	
4. Rubber Kit (Lid O-Ring, Cartridge Check O-Rings, Washer, Lid Bolt, Relief Valve O-Ring, Lubricant not shown)	1	A00006-03511	
5. Relief Valve Diaphragm	1	A00006-03540	
6. Relief Valve Piston Assembly	1	A00006-03581	
7. Relief Valve Spring	1	A00006-03573	
8. Cartridge Check O-Ring	1	A00006-03025	
9. Shut-Off Ball Assembly Inlet-	3/4"	1	A00006-03112
	1"	1	A00006-03114
	1 1/4"	1	A00006-03116
	1 1/2"	1	A00006-03109
10. Shut-Off Ball Assembly Outlet-	3/4"	1	A00006-03111
	1"	1	A00006-03113
	1 1/4"	1	A00006-03115
	1 1/2"	1	A00006-03110
11. Test Cock	4	A00006-03117	
12. Lid Assembly (Lid, Lid Insert, Lid O-Ring, Nut, Bolt, Washer, Lubricant not shown)	1	A00006-03504	



Model 4000SS Reduced Pressure Principle 2-1/2" to 10"



FEATURES

- Stainless steel construction provides long term corrosion resistance and maximum strength, is half the weight of competitive designs reducing install & shipping costs
- Short end-to-end dimensions makes retrofit easy
- Patented cam-check assembly provides maximum flow at low pressure drop
- No special tools required for servicing
- Compact construction allows for smaller enclosures
- Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs

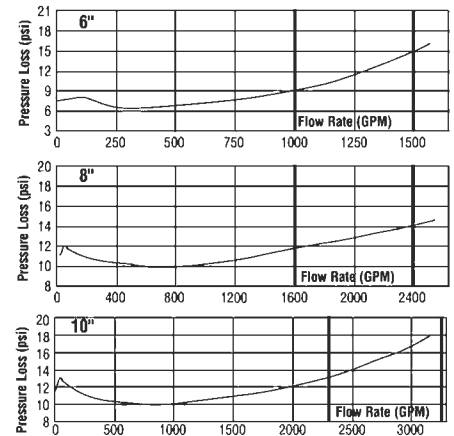
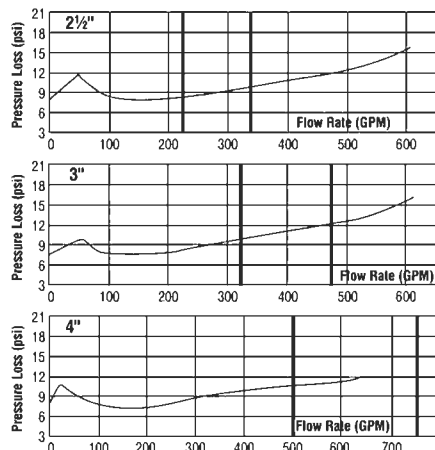
SPECIFICATIONS

A Reduced Pressure Zone Assembly shall be installed at each cross-connection to prevent backsiphonage and backpressure of hazardous materials into the potable water supply. The assembly shall consist of a pressure differential relief valve located in a zone between two positive seating cam-check assemblies. This model's cam-check assembly shall be of thermoplastic construction with stainless steel hinge pins, cam arm, and cam bearing. The cam-check assembly shall utilize a single torsion spring design to minimize pressure drop through the assembly. The cam-check assembly shall be modular and shall seal to the main valve body by the use of an O-ring. The assembly shall include two resilient seated shutoff valves & four ball type test cocks.

MODELS

- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- OSY GxG – grooved inlet gate connection and flanged outlet gate connection
- OSY GxG – grooved inlet gate connection and grooved outlet gate connection
- LG – without shutoff valves

FLOW CURVES



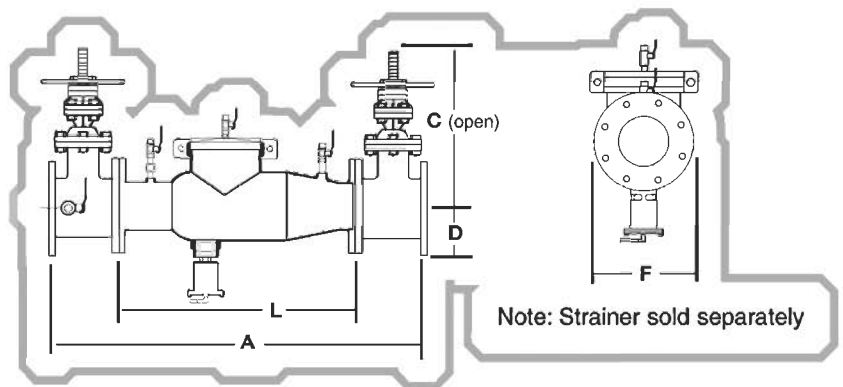
CHARACTERISTICS

Temperature Range: 33°F – 110°F
Maximum Working Pressure: 175psi
All internal metal parts: 300 Series stainless steel
Main valve body: 300 Series stainless steel
Check assembly: Noryl®
Flange dimension in accordance with AWWA Class D

Note: The installation of a drain line is recommended. When installing a drain line, an air gap is necessary. The 4000SS should be installed with a minimum clearance of 12" between lowest point of the assembly and the floor drain or grade.

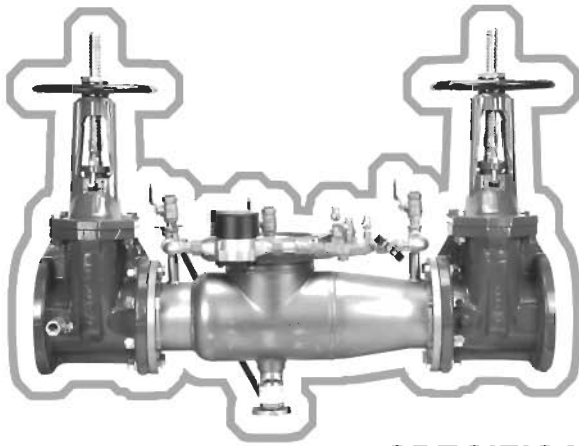
APPROVALS

ASSE, CSA
UL Classified (OSY only)
FM (Sizes 2 1/2" – 10", OSY only)



Repair parts for this model follow the next page.

Size	Dimensions						Net Weight w/Gates	Net Weight w/o Gates
	A	C (OSY)	C(NRS)	D	F	L		
2 1/2	37	16 3/8	9 3/8	10 1/2	7	22	148	60
3	38	18 3/8	10 1/4	10 1/2	7 1/2	22	226	62
4	40	22 3/4	12 3/16	10 1/2	9	22	235	65
6	48 1/2	30 1/8	16	11 1/2	11	27 1/2	380	110
8	52 1/2	37 3/4	19 13/16	12 1/2	13 1/2	29 1/2	571	179
10	55 1/2	45 3/4	23 13/16	12 1/2	16	29 1/2	773	189



Model 500SS Reduced Pressure Detector Assembly 2-1/2" to 6"

FEATURES

- Stainless steel construction provides long term corrosion resistance and maximum strength
- Stainless steel body is light weight reducing installation and shipping costs
- Short end to end dimensions makes retrofit easy
- Bottom mounted relief valve reduces clearance requirements when installed against an outside wall
- Patented cam-check valves provides maximum flow at low pressure drop
- No special tools required for servicing
- Compact construction allows for smaller enclosures
- Detects underground leaks and unauthorized water use.
- GPM or CFM meter available

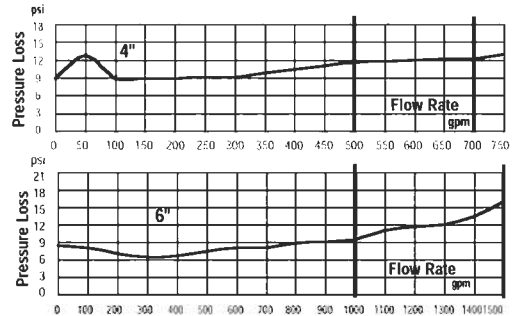
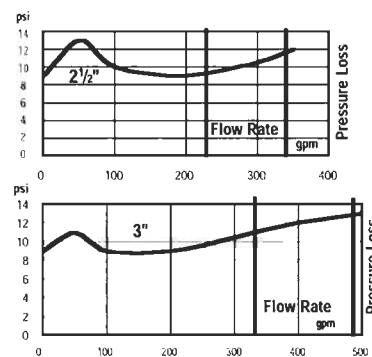
SPECIFICATIONS

A Reduced Pressure Detector Assembly shall be installed at each cross-connection to prevent backsiphonage and backpressure of hazardous materials into the potable water supply. A pressure differential relief valve is located between 2 cam-checks. Cam-check valves shall be of thermoplastic construction with stainless steel hinge pins, cam arm, and cam bearing. The cam-check valve shall utilize a single torsion spring design to minimize pressure drop through the assembly. The cam-check valves shall be modular and shall seal to the main valve body by the use of an O-ring. All internal parts shall be accessible through a single cover on the valve assembly securely held in place by a two-bolt grooved coupling. The differential relief valve shall be of stainless steel construction and shall utilize a rolling diaphragm and no sliding seals. The relief valve shall be bottom mounted and supplied with a steel reinforced sensing hose. The assembly shall include two resilient shutoff valves and four ball type test cocks and a hydraulically balanced by-pass line. The bypass line shall include a meter, small diameter reduced pressure zone assembly and isolation valves. The bypass reduced pressure assembly shall have a single bolted on cover and top mounted test cocks.

MODELS

- LG - without shutoff valves
- OSY - UL/FM outside stem and yoke resilient seated gate valves
- OSY FxG - flanged inlet gate connection and grooved outlet gate connection
- OSY GxF - grooved inlet gate connection and flanged outlet gate connection
- OSY GxG - grooved inlet gate connection and grooved outlet gate connection
- CFM - cubic feet per minute meter
- GPM - gallons per minute meter
- LM - less meter

FLOW CURVES

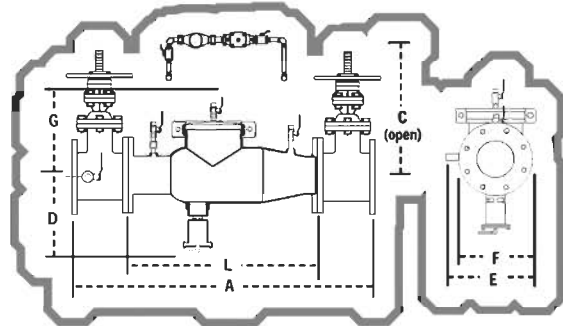


CHARACTERISTICS

- Temperature Range: 33°F – 140°F
- Maximum Working Pressure: 175psi
- All internal metal: 300 Series stainless
- Main valve body: 300 Series stainless
- Check assembly: Noryl™
- Flange dimension AWWA Class D

APPROVALS

ASSE,
UL Classified, FM Approved.



MODEL	SIZE	DIMENSIONS							WEIGHTS	
		A	C (OSY)	D	F	G	L	E	with Gates	without
500SS LG	2 1/2	-	-	10 1/2	7	10	22	12 1/2	-	61
500SS LG	3	-	-	10 1/2	7 1/2	10	22	13	-	65
500SS LG	4	-	-	10 1/2	9	10	22	14 1/2	-	67
500SS LG	6	-	-	11 1/2	11	11 1/2	27 1/2	15 1/2	-	105
500SS OSY	2 1/2	37	16 3/8	10 1/2	7	10	-	12 1/2	170	-
500SS OSY	3	38	18 7/8	10 1/2	7 1/2	10	-	13	205	-
500SS OSY	4	40	22 3/4	10 1/2	9	10	-	14 1/2	270	-
500SS OSY	6	48 1/2	30 7/8	11 1/2	11	11 1/2	-	15 1/2	405	-

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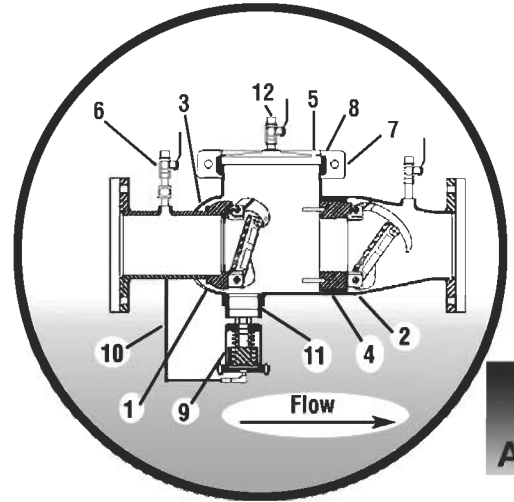
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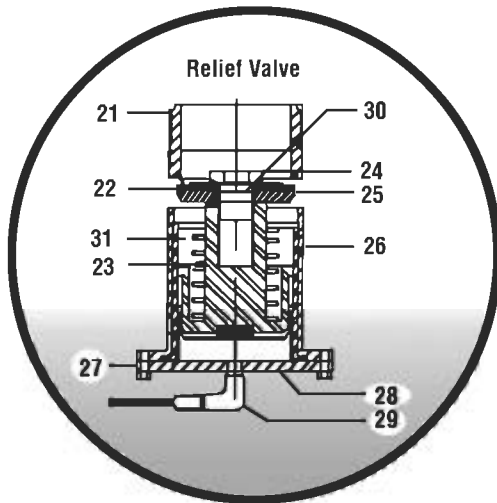
REPAIR PARTS for 4000SS & 5000SS MODELS

Model 4000SS/5000SS - 2 1/2" to 6" Parts

Item #	Description	Qty	2 1/2"	3"	4"	6"SS
1.	#1 Cam-Check	1	7015561	7015561	7015561	7015566
2.	#2 Cam-Check	1	7015560	7015560	7015560	7015565
3.	#1 Cam-Check O-ring	1	7015333	7015333	7015333	7013280
4.	#2 Cam-Check O-ring	1	7013229	7013229	7013229	7013281
5.	Cover Plate	1	7013241	7013241	7013241	7013289
6.	Ball Valve	2	7014668	7014668	7014668	7014668
7.	Groove Coupler	1	7013194	7013194	7013194	7013287
8.	Groove Coupler Gasket	1	7013248	7013248	7013248	7013308
9.	Relief Valve (Complete assembly)	1	7013354	7013354	7013354	7013354
10.	Relief Valve Hose	1	7013343	7013343	7013343	7013343
11.	Relief Valve Body O-ring	1	A400084	A400084	A400084	A400084
12.	Ball Valve (Cover)	1	A603134	A603134	A603134	7013034



5
Ames



Relief Valve - 2 1/2" to 10" Models

Item #	Part Description	Qty	
21.	Relief Valve Body	1	7013337
22.	Rubber Shut-Off Disc.	1	7013330
23.	Piston Diaphragm Assembly	1	7013352
24.	Hex Head Bolt	1	7013326
25.	Disc. Retainer	1	7013328
26.	Sleeve	1	7013340
27.	Bottom Bolt	1	7012545
28.	Bottom Flange (w/St. Elbow)	1	7013339
29.	Elbow St 90 3/8	1	A403609
30.	O-Ring Disk	2	7013327
31.	RV Spring	1	7013368
31.	RV Spring (8" & 10" models)	1	7013360

Model 4000SS - 8" & 10" Parts

Item #	Part Description	Qty	8"	10"
1.	#1 Cam-Check	1	7015570	7015570
2.	#2 Cam-Check	1	7015569	7015569
3.	#1 Cam-Check O-ring	1	7011610	7011610
4.	#2 Cam-Check O-ring	1	7011610	7011610
5.	Cover Plate	1	7013495	7013495
6.	Ball Valve	3	A000449	A000449
7.	Groove Coupler	1	A605530	A605530
8.	Groove Coupler Gasket (not shown)	1	7014806	7014806
9.	Relief Valve (complete assembly)	1	7013354	7013354
10.	Relief Valve Hose	1	7013522	7013522
11.	Relief Valve Body O-ring	1	A400084	A400084
12.	Washer, Shutoff	1	7013499	7013499

