



**COLT SERIES** EXCELLENCE MATTERS – SPECIFY IT!

**200(a)** DOUBLE CHECK ASSEMBLY

**300(a)** DOUBLE CHECK DETECTOR ASSEMBLY

## COLT FEATURES

### BACKFLOW ASSEMBLIES

- Closest competitor is more than 360% heavier
- Most compact design in the industry
- Entire valve body and closure sleeve manufactured from 300 Series Stainless Steel

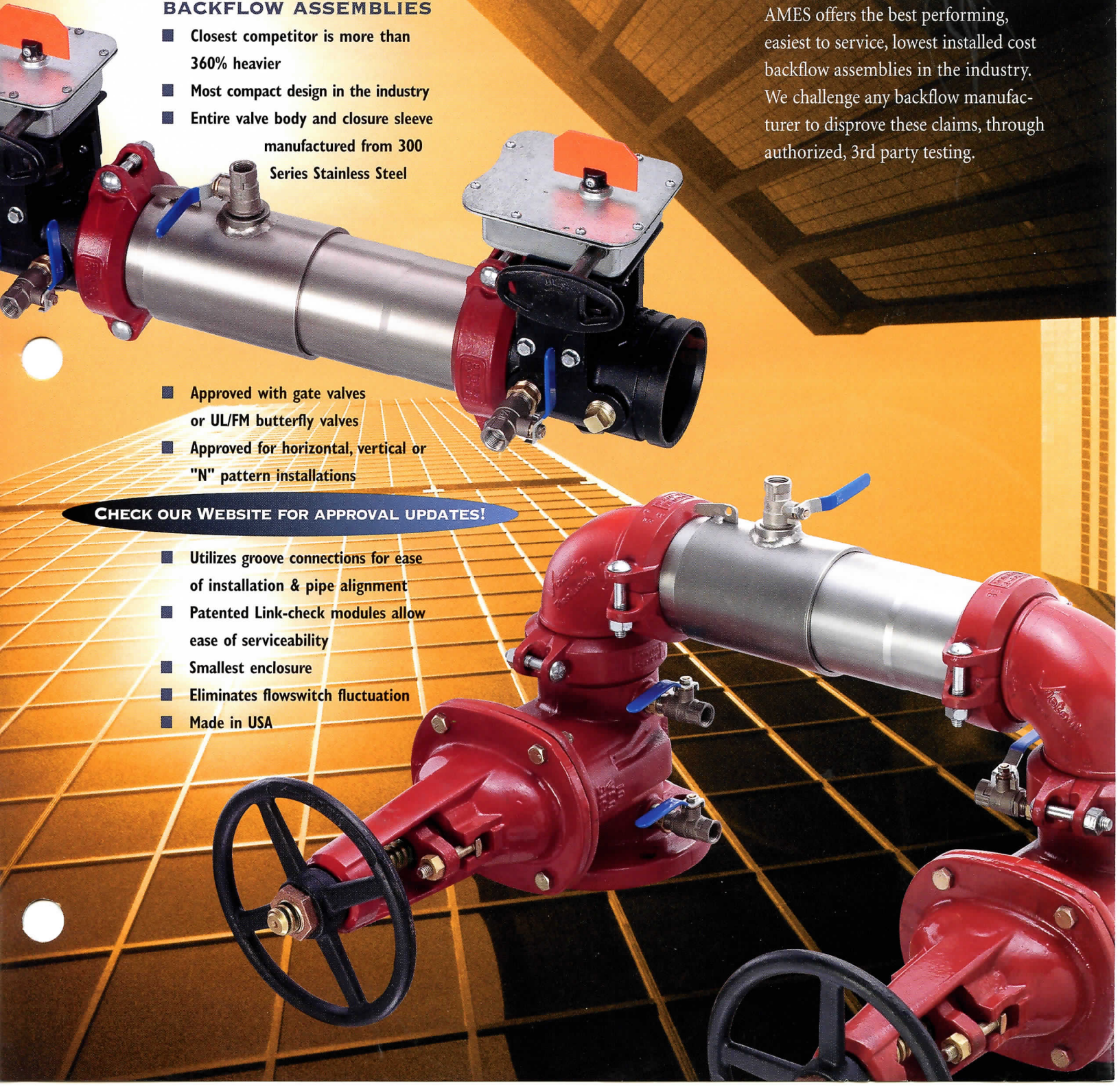
- Approved with gate valves or UL/FM butterfly valves
- Approved for horizontal, vertical or "N" pattern installations

**CHECK OUR WEBSITE FOR APPROVAL UPDATES!**

- Utilizes groove connections for ease of installation & pipe alignment
- Patented Link-check modules allow ease of serviceability
- Smallest enclosure
- Eliminates flowswitch fluctuation
- Made in USA

## THE AMES CHALLENGE

AMES offers the best performing, easiest to service, lowest installed cost backflow assemblies in the industry. We challenge any backflow manufacturer to disprove these claims, through authorized, 3rd party testing.



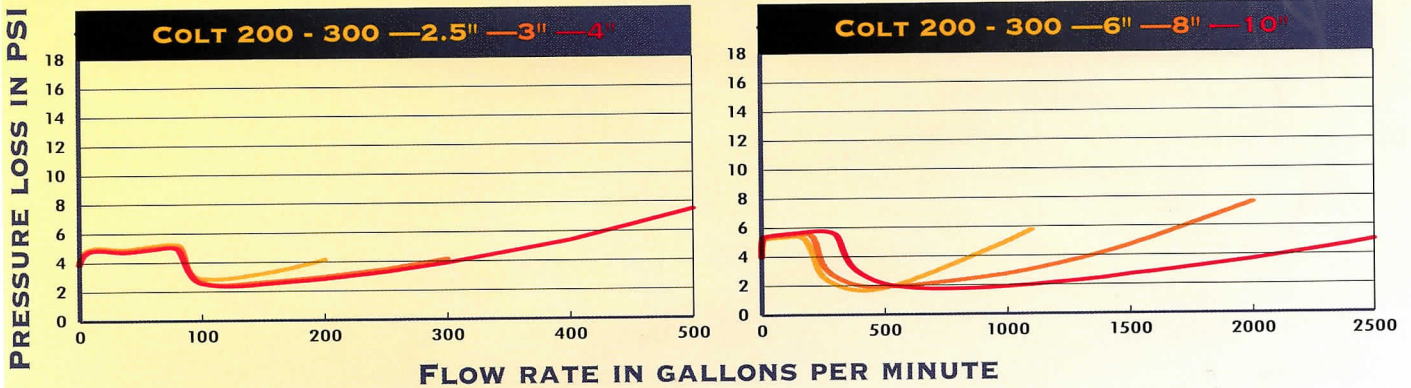
# THE AMES CHALLENGE

ASSEMBLY WEIGHT COMPARE 4" DOUBLE CHECK WITH SHUTOFF VALVES		
BACKFLOW ASSEMBLY	WEIGHT (LBS)	% HEAVIER THAN AMES
COLT 200 W/BFG	61	
FEBCO 850 W/OS&Y - GPC 5/01	312	411%
WILKINS 350 W/OS&Y - BF 350	281	360%

LAYLENGTH COMPARE 4" DOUBLE CHECK WITH SHUTOFF VALVES		
BACKFLOW ASSEMBLY	LAYLENGTH (IN)	% LONGER THAN AMES
COLT 200 W/BFG	29.3	
FEBCO 850 W/OS&Y - GPC 5/01	46.2	59%
WILKINS 350 W/OS&Y - BF 350	37.7	29%

## ENGINEERING THE CURVE

### COLT 200/300 CERTIFIED FLOW CHARACTERISTICS (INCLUDING OS&Y SHUT-OFFS)



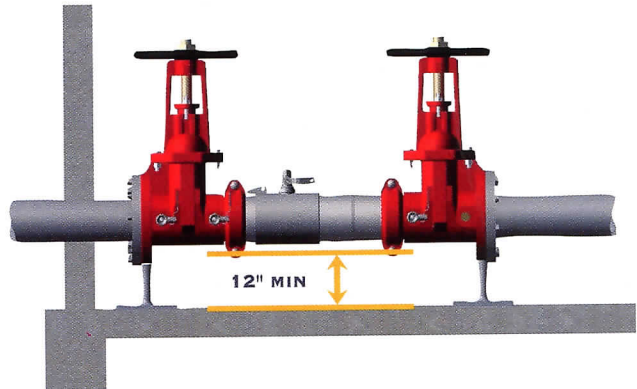
### INSTALLATION GUIDELINES

Most field problems occur because dirt or debris present in the system at the time of installation becomes trapped in the 1st check seating area resulting in a low or zero differential across the 1st check. **The system should be flushed before the backflow valve is installed.** If the system is not flushed until after the backflow valve is installed, remove both check modules from the valve and open the inlet shut-off to allow water to flow for a sufficient time to flush debris from the water line. If debris in the water system continues to cause fouling, a strainer can be installed upstream of the backflow assembly.

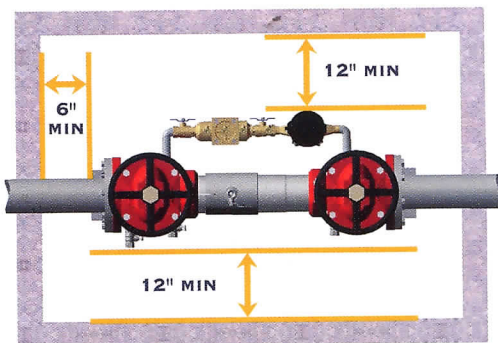
AMES models 200 & 300 may be installed in either **horizontal, vertical, or "N"** position as long as the backflow assembly is installed in accordance with the direction of the flow arrow on the assembly and the local water authority approves the installation.

The assembly should be installed with adequate clearance around the valve to allow for inspection, testing, and servicing. Twelve inches should be the minimum clearance between the lower portion of the assembly and the floor or grade.

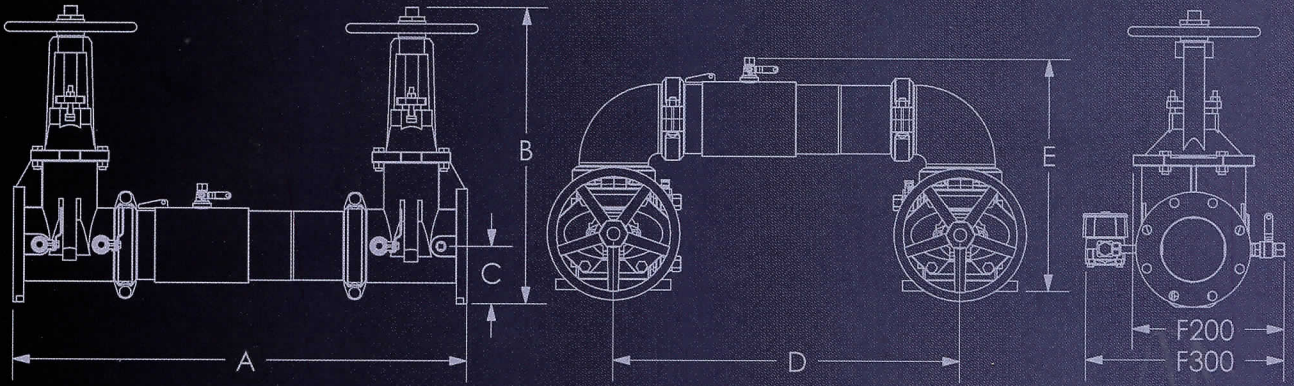
#### INTERIOR INSTALLATION



#### ENCLOSURE INSTALLATION



## COLT 200/300 DIMENSIONS & WEIGHT



### WITH GATE VALVES (INCHES)

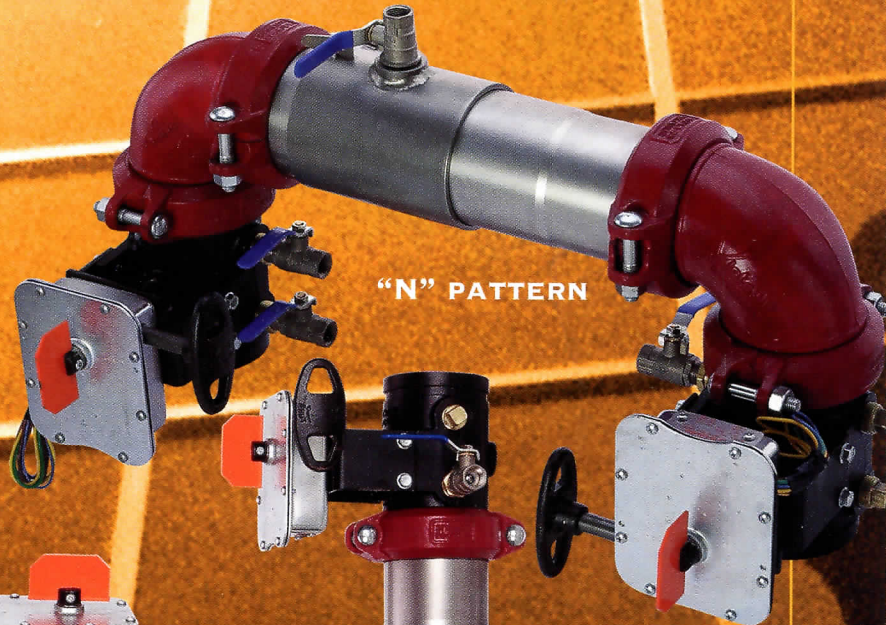
### WITH UL/FM BUTTERFLY VALVES (INCHES)

SIZE	A	OS&Y B	NRS B	C	D	E	F/200	F/300	OS&Y WEIGHT	A	B	C	D	E	F/200	F/300	BFG WEIGHT
2½"	31	16¾	9¾	3½	22	15½	9¾	13¾	125 lbs	28	11½	3½	22	14½	9	13	56 lbs
3"	31¼	18⅞	10¼	3⅞	22¾	17⅞	10½	14½	145 lbs	28½	12	3⅞	22¾	15⅞	9½	13½	54 lbs
4"	33¼	22¾	12¾	4	24	18½	11¾	15¾	161 lbs	29¾	12⅝	3⅞	24	16¼	10	14	61 lbs
6"	44	30⅞	16	5½	33¾	23¾	15	19	295 lbs	36½	15	5	33¾	19⅞	10½	14½	117 lbs
8"	50	37¾	19⅞	6⅞	40⅞	27⅞	17¾	21¾	480 lbs	43	18¾	6½	40⅞	23¾	14¾	18¾	261 lbs
10"	57½	45¾	23¾	8¾	50	32½	20	24	781 lbs								

## UL/FM BUTTERFLY VALVES AVAILABLE FOR SHUTOFF VALVES

### ADVANTAGES OF UL/FM BUTTERFLY VALVES

- Butterfly valves have built-in tamper switch wiring
- Backflow assembly is lighter & more compact
- Groove couplings allow ease of installation & pipe alignment
- All butterfly valves display flow indicator flag



"N" PATTERN

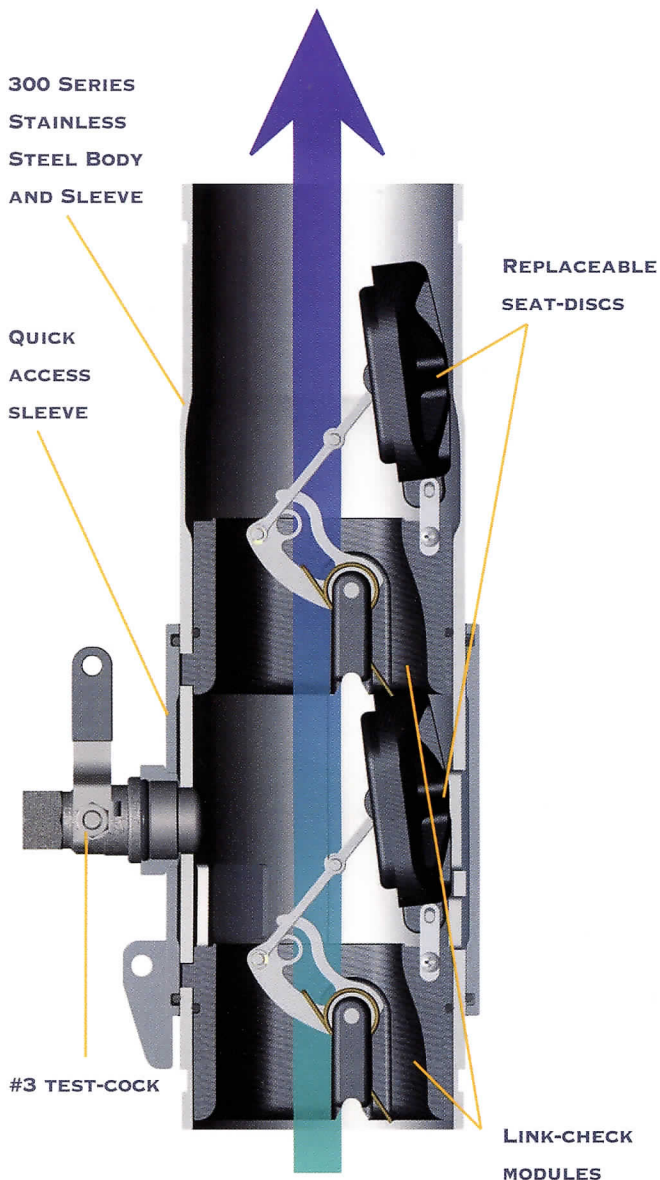


HORIZONTAL



VERTICAL

## CUTAWAY VIEW - FULL FLOW OPERATION



### NORMAL OPERATION

In normal flowing operation, the independent Link-check remains closed until there is a water demand. Each check will then open and maintain an approximate 1 PSI differential in the direction of flow. In a nonflow or backflow condition, both checks will close until the resumption of normal flow.

### APPLICATIONS — COLT 200

Double Check Assemblies are used to prevent backflow of pollutants that are objectionable but not toxic. Double checks may be installed under continuous pressure service and may be subject to backpressure.

Double Check Assemblies may be used in fire protection systems without chemical additives, industrial in-plant plumbing systems and other systems requiring low hazard protection. Local codes may vary, consult authorities for specific approved applications.

S-COLT-200/300 0308

PATENT PENDING

### APPLICATIONS — COLT 300

Double Check Detector Check Assemblies are used to prevent backflow of pollutants that are objectionable, but not toxic. Double Check Detector Check Assemblies may be installed under continuous pressure service and may be subject to backpressure.

The Double Check Detector Check Assembly is used primarily on fireline sprinkler systems when it is necessary to monitor unauthorized use of water.

### APPROVALS

Contact the factory or visit the website:  
[www.amesfirewater.com](http://www.amesfirewater.com)

### SPECIFICATIONS

The Backflow Assembly shall consist of two independent Link-check modules within a single housing with sleeve access, required test cocks and drip tight shut-off valves. Link-checks may be removed and reinstalled in housing without any special tools. The housing shall be constructed of 300 Series stainless steel with groove end connections. Link-checks shall have reversible elastomer disks and in operation shall produce drip tight closure against the reverse flow of liquid caused by back pressure or back siphonage. Device shall be manufactured in the USA. Device shall be COLT 200 or 300 manufactured by AMES of Sacramento, California.

### CHARACTERISTICS AND MATERIALS

<b>RATED WORKING PRESSURE</b>	<b>HYDROSTATIC TEST PRESSURE</b>
175 PSI	350 PSI

<b>TEMPERATURE RANGE</b>	<b>BODY CONSTRUCTION</b>
33 F-140 F	300 Series Stainless Steel

#### END CONNECTION

Groove per AWWA C-606 (IPS) or Flange per ANSI B16.1, Class 125



DIVISION OF WATTS INDUSTRIES

875 National Drive Suite #107

Sacramento, CA 95834

Phone 916.928.0123

Fax 916.928.9333

[www.amesfirewater.com](http://www.amesfirewater.com)