

# NEWCO Cast Steel Valves

TECHNOLOGY



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Cameron's NEWCO® cast steel gate, globe and check valves exceed all industry design requirements. These valves range from 2" to 54" (50 mm to 1350 mm) in pressure classes 150 to 1500.



## Gates

**Sizes:** 2" to 54" (50 mm to 1350 mm)  
**Classes:** 150 to 1500

NEWCO cast steel gate valves are ideal for bi-directional flow and tight shutoff. Due to the flow characteristics of the wedge-to-seat design, gate valves should be operated in the full-open or full-closed position. Concentrated flow across the seats of a partially opened gate valve risks possible seat damage, therefore throttling is not recommended. Gate valves are utilized in applications where minimum pressure drop is desired.



## Globes

**Sizes:** 2" to 24" (50 mm to 600 mm)  
**Classes:** 150 to 1500

NEWCO cast steel globe valves are ideal for unidirectional, controlled flow. The flow characteristics of a globe valve are repeatable, consistent and easy to control at various open positions, which makes the design ideal for general flow regulation.

**Note:** If line pressure drops below 20%, cavitation, vibration and noise may occur, resulting in hardware damage. If these conditions are likely, consult your Cameron representative for recommendations.

## Angle Globes

**Sizes:** 2" to 12" (50 mm to 300 mm)  
**Classes:** 150 to 600

NEWCO cast steel angle globe valves are ideal for unidirectional, controlled flow. The flow characteristics of an angle globe valve are repeatable, consistent and easy to control at various positions, which makes the design ideal for general flow regulation.

**Note:** If line pressure drops below 20%, cavitation, vibration and noise may occur, resulting in hardware damage. If these conditions are likely, consult your Cameron representative for recommendations.





## Swing Checks

**Sizes:** 2" to 24" (50 mm to 600 mm)

**Classes:** 150 to 1500

NEWCO cast steel swing check valves yield minimal restriction to low-velocity environments and are ideal for preventing backflow in unidirectional flow applications in horizontal flow piping.

**Note:** Please consult Cameron's Engineering Department for upward (vertical) flow applications.

## Tilting Disc Checks

**Sizes:** 2" to 24" (50 mm to 600 mm)

**Classes:** 150 to 300 (See Pressure Seal to 2500)

NEWCO cast steel tilting disc check valves yield minimal restriction to low-velocity environments and are ideal for preventing backflow in unidirectional flow applications in horizontal flow piping. The tilting disc design helps to reduce the slamming of the disc when backflow occurs.

**Note:** Please consult Cameron's Engineering Department for upward (vertical) flow applications.



## Stop Checks

**Sizes:** 2" to 18" (50 mm to 450 mm)

**Classes:** 150 to 1500

NEWCO cast steel stop check valves are designed much the same as globe valves, except there is no mechanical connection (split lock ring) between the stem and disc. They are designed to give check valve protection in the event of fluid backflow, and are commonly used to prevent flow from a header fed by multiple sources when there is a loss in pressure in one of the sources. Stop check valves must be installed with line pressure under the disc so only boiler pressure can raise the disc. Stop check valves also must be installed horizontally.

## Angle Stop Checks

**Sizes:** 2" to 12" (50 mm to 300 mm)

**Classes:** 150 to 600

NEWCO cast steel angle stop check valves are designed much the same as angle globe valves, except there is no mechanical connection (split lock ring) between the stem and disc. They are designed to give check valve protection in the event of fluid backflow, and are commonly used to prevent flow from a header fed by multiple sources when there is a loss in pressure in one of the sources. Angle stop check valves must be installed with line pressure under the disc so only boiler pressure can raise the disc. Stop check valves also must be installed horizontally.

