

WHEATLEY Valves—Series 822 Check Valve

Designed to safely prevent backflow of liquid or gas in pipeline applications

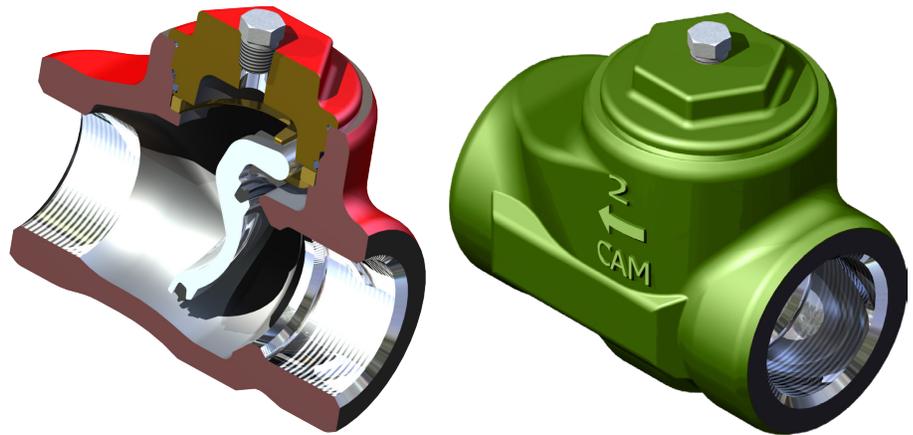
APPLICATIONS

- Pipeline applications

ADVANTAGES

- Designed in accordance with ASME B16.34 (WCC, LCC and CF8M only)
- Materials of construction that conform to NACE MR0175/ISO 15156
- Solid 316 stainless steel clapper and hanger that reduce the need for separate pins, bushings, and rollers
- Compact valve geometry for reduced weight and space
- Bevelled, self-aligning clapper and seat design with a molded seal in the clapper for a bubble-tight seal and metal-to-metal secondary seal
- Peroxide-cured nitrile rubber seals (optional fluoroelastomer or hydrogenated nitrile rubber)
- Generous wrench area on body and hex-head threaded cover for easier installation and maintenance
- Full opening
- Horizontal or vertical flow-up
- Below-the-threads cover seal that isolates the cover threads from line media
- Metal name plate

The Cameron portfolio of WHEATLEY* check valves includes the Series 822 check valve, which is designed to safely prevent backflow of liquid or gas in pipeline applications. The valve's beveled, self-aligning clapper and seat design incorporates a molded seal in the clapper for a bubble-tight primary seal and metal-to-metal secondary seal.



Cut-out (left) and full (right) view of the Series 822 check valve.



Bevelled, self-aligning clapper (left) and seat (right) design.

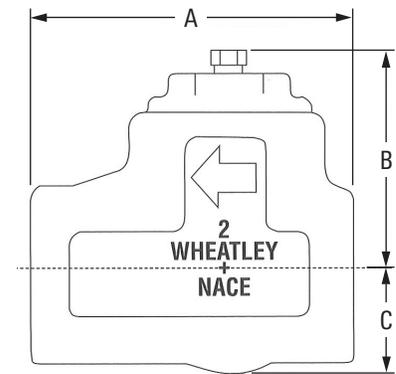
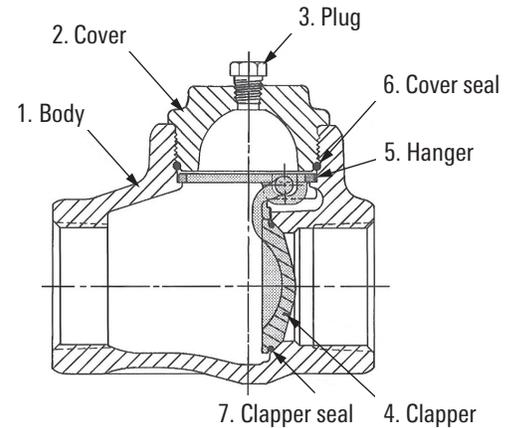
Materials List

Item Number	Part Name	Material Series			
		Ductile Iron	Carbon Steel	Aluminum Bronze	Stainless Steel
1	Body	ASTM A395	ASTM A216 Grade WCC or LCC	ASTM B148 Alloy 955	ASTM A351 Grade CF8M
2	Cover	ASTM A216 Grade WCC	ASTM A216 Grade WCC or LCC	ASTM B148 Alloy 955	ASTM A351 Grade CF8M
3	Plug	ASTM A105	ASTM A105/ A473-316	ASTM A473 Type 316	ASTM A276 Type 304
4	Clapper, arm, and pin	ASTM A351 GRADE CF8M			
5	Hanger	ASTM A351 GRADE CF8M			
6	Cover seal	90-durometer peroxide-cured nitrile rubber (optional fluoroelastomer or hydrogenated nitrile rubber)			
7	Clapper seal	90-durometer peroxide-cured nitrile rubber (optional fluoroelastomer or hydrogenated nitrile rubber)			

WHEATLEY Valves—Series 822 Check Valve

Product Specifications

Material Series	Valve Size, in	End Connection	Working Pressure	Weight, lbm	A, in	B, in	C, in
Ductile iron	1	NPT	1,000–2,000	4	4¼	2¾	1⅝
	2	Grooved	2,500	9	7	4¼	1⅜⅓
		Grooved	2,500	10	9	4¼	1⅜⅓
		NPT	300–2,000	13	6	4¼	1⅜⅓
		NPT	300–2,000	13	7¼	4¼	1⅜⅓
	3	Grooved	2,500	22	10¾	5¾	2½
		NPT	600–2,000	23	8	5¾	2½
		4	NPT	1,000	35	10	6⅝
NPT			1,000	35	10	6⅝	3
Carbon steel	½	NPT	275–3,600	4	3½	2¾	1⅝
	¾	NPT	275–3,600	4	3½	2¾	1⅝
	1	NPT	275–3,600	4	4¼	2¾	1⅝
	1½	NPT	275–3,600	10	6	4¼	1⅜⅓
	2	NPT	275–3,600	13	7¼	4¼	1⅜⅓
	2½	Grooved	275–2,160	11	9	4¼	1⅜⅓
	3	NPT	275–2,160	28	8¾	5¾	2½
	4	NPT	275–1,440	38	10	6⅝	3
Aluminum bronze	1	NPT	2,160–3,600	4	4¼	2¾	1⅝
	2	NPT	275–3,600	13	7¼	4¼	1⅜⅓



Model Number Explanation

Example
9D-822-02 3 144-1 31

Model	Size, in [mm]	End Connection	Working Pressure	Body Material	Trim Materials
820	Aluminum bronze	50 ½ [50]	0 Socket weld	275	1 Carbon steel
	75 ¾ [50]	1 Grooved	027 275	2 Ductile iron	
822	Integral seat	01 1 [80]	030 300	3 Stainless steel	
	15 1½ [100]	3 NPT threaded	060 600	6 Aluminum bronze	
	02 2 [150]		072 720		
	25 2½ [200]		100 1,000		
	03 3 [250]		150 1,500		
	04 4 [300]		144 1,440		
			200 2,000		
			216 2,160		
			360 3,600		

9D-822-023144-131

2-in NPT check valve with threaded-swing end connections, 1,440-psi working pressure, carbon steel body, stainless trim, and peroxide-cured nitrile rubber seals

Parts Replacement Kits

Material Series	Order Number	Valve Size, in
Ductile iron	9D-820-01020X- DIK	1
	9D-820-02020X- DIK	2
		2½
		3
	9D-820-04010X- DIK	4
Carbon steel	9D-820-01036X- CSK	½, ¾, 1
	9D-820-02021X- CSK	1½
		2
		2½
	9D-820-04014X- CSK	3
9D-820-04014X- CSK	4	
Aluminum bronze	9D-820-01036X- ABK	1
	9D-820-02021X- ABK	2

Replace X with "B" for nitrile rubber seals, "V" for fluoroelastomer seals, or "H" for hydrogenated nitrile rubber.

Parts kit includes item numbers 4, 6, and 7.

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