



# CRS

COALESCING-STYLE AIR & SEDIMENT SEPARATOR



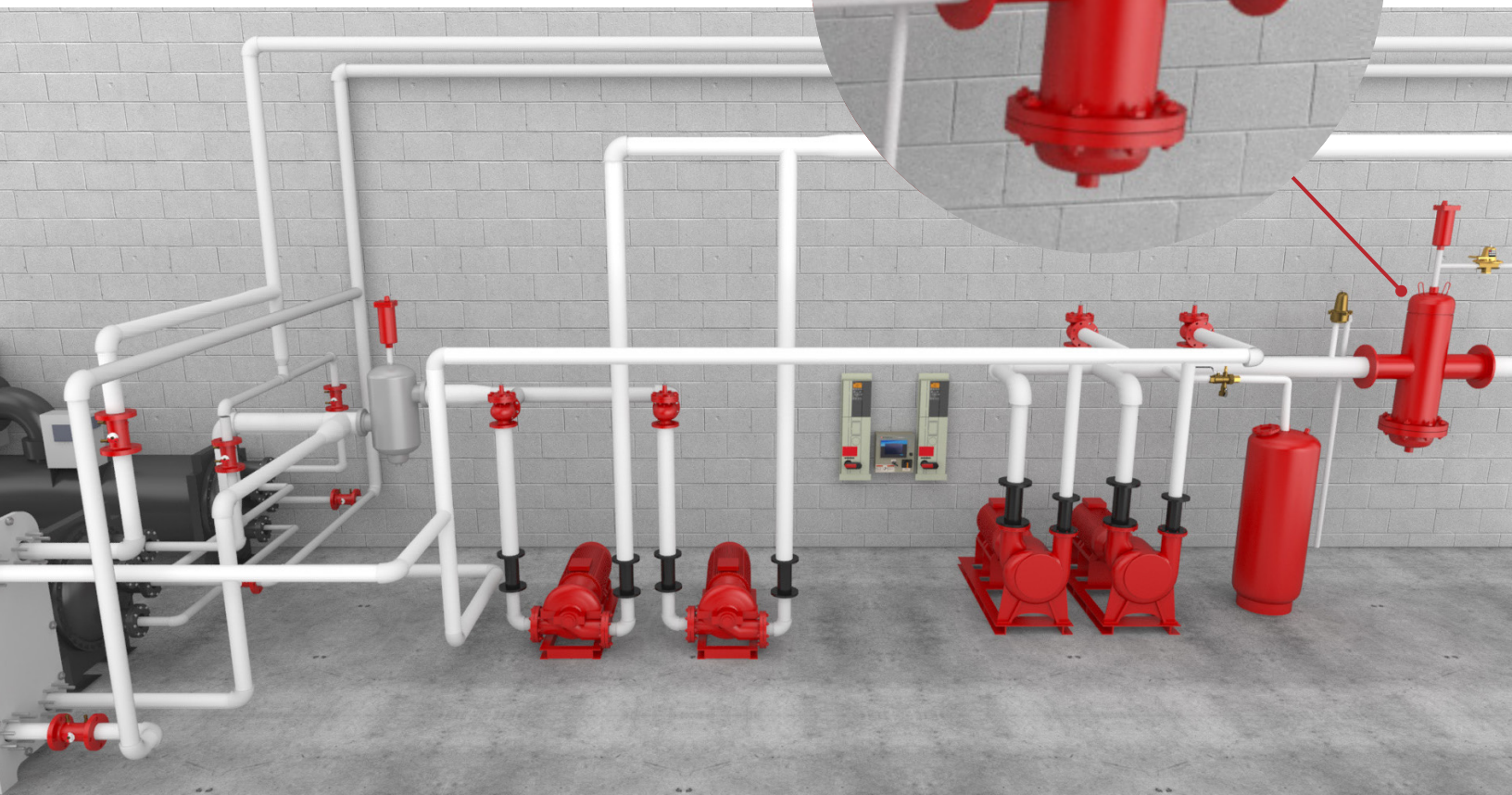
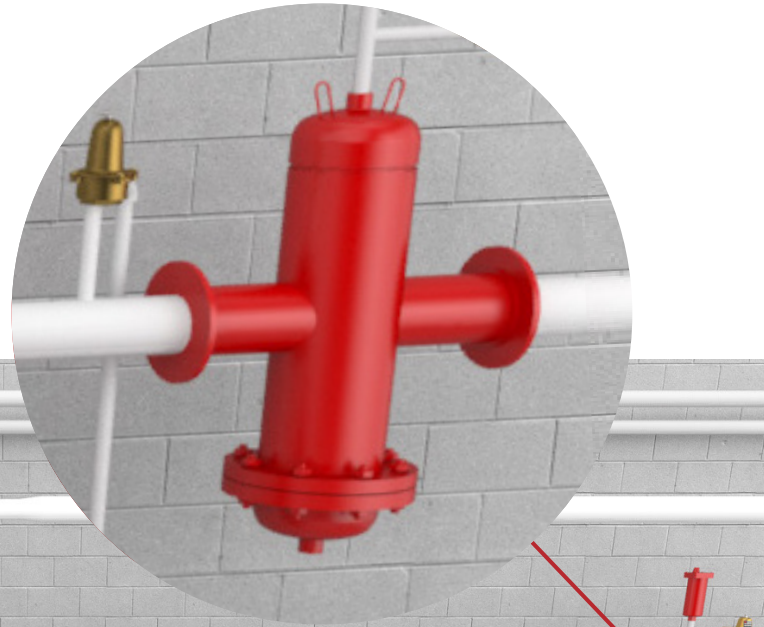
**Bell & Gossett**  
a xylem brand

# A Great Solution for Any HVAC Application

The Bell & Gossett CRS coalescing-style air and sediment separator is available for use in any HVAC system. Its internal coalescing media helps break entrained air and suspended solids out of your system fluid. The CRS efficiently removes these contaminants, therefore improving heat transfer capabilities. This results in lower energy costs while protecting pumps, boilers and other components, and extending the life of your system. With its wide variety of sizes, connections and configurations, the Bell & Gossett CRS is a great solution for any HVAC application.

## Features/Benefits:

- **Improved system efficiency:**
  - Lowers energy costs and improves comfort by removing poor heat transfer media like air and sediment from system fluid
- **Removal of system impurities:**
  - Removes up to 100% of free air and 100% of entrained air from your hydronic system
  - Removes sediment to 30 µm within 100 passes
- **Prolonged system performance:**
  - Improves and extends the life of your system components
  - Withstands system operating conditions to provide long life expectancy, thanks to a robust design with stainless steel coalescing media
- **Expanded capabilities:**
  - Air and sediment combo
  - Air only
  - Sediment only
  - Standard velocity
  - High velocity
  - Removable coalescing media

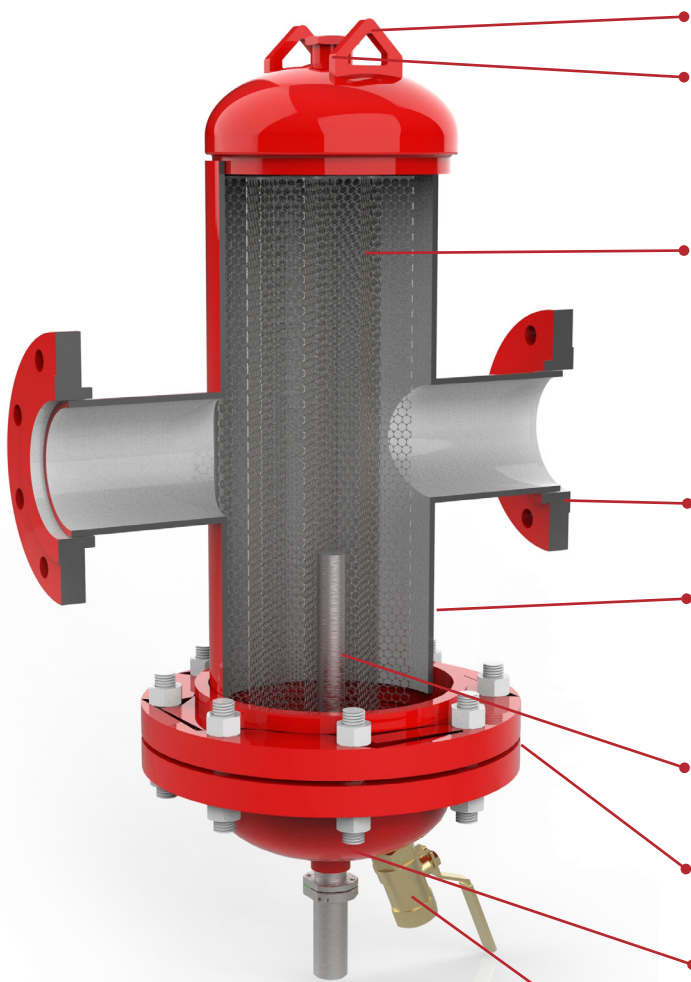


## CRS Mag

For additional protection against ferrous sediment, the CRS is available with an optional magnetic insert. Comprised of neodymium 45H magnets with a strength of 13,550 Gauss, the magnetic rod helps remove metallic sediment that can pose a serious threat to modern system components. The insert can be easily moved from its position inside the separator to facilitate blow down and sediment removal.



## Built to Perform

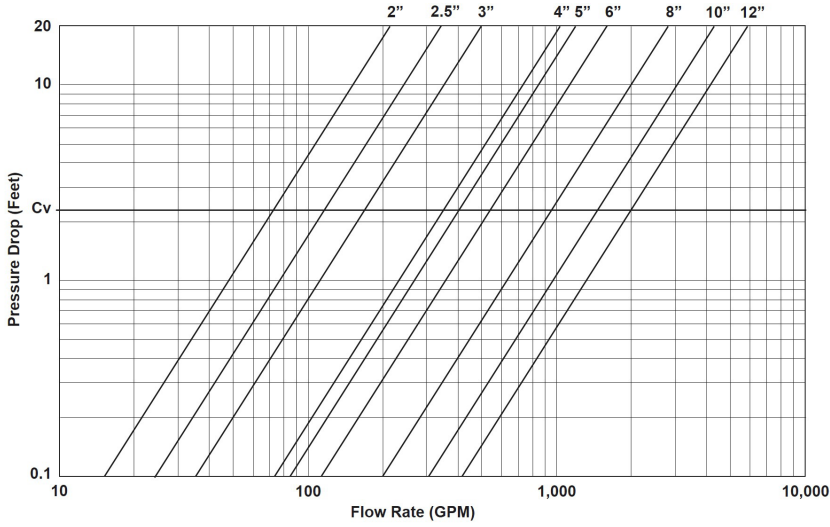


- Lifting lugs help movement and installation.
- A threaded connection is provided for an optional air vent, or for connection to an expansion tank. An optional skim valve (not pictured) removes large volumes of air during system fill, and skims off floating sediment.
- The CRS's internal stainless steel coalescing media (patent pending) helps to break the surface tension within the system fluid, making it easier for air to come out of the solution. Air bubbles can then rise to the top of the tank where they can either be removed with an air vent or directed to your expansion tank.
- End connections are available in NPT (2-4" only), flanged and grooved, to meet all of your system connection needs.
- A tank body twice as large as the inlet and outlet nozzles provides a reduction in fluid velocity, making it easier for entrained air and suspended solids to come out of the solution so they can be removed.
- An optional insert with a powerful neodymium 45H magnet can offer additional protection against ferrous sediment.
- A removable head is shown; a non-removeable head is available.
- Suspended solids sink to the bottom of the tank where system pressure helps to remove them once the blowdown valve has been opened.
- A threaded connection is provided for an optional blowdown valve to remove collected solids.

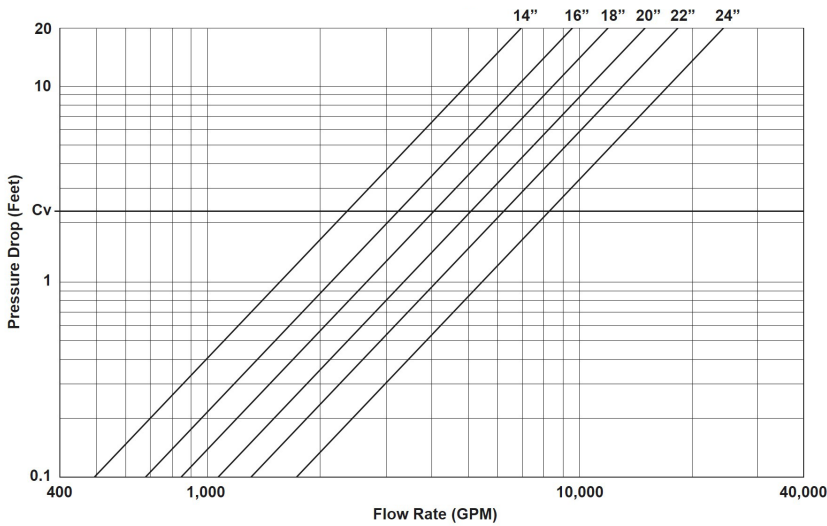
The CRS is designed, constructed, inspected and stamped per Section VIII, Division 1 of the ASME Code.

# Pressure Drop Performance Curves

CRS Performance Coverage 2" - 12"



CRS Performance Coverage 14" - 24"



Size* (in)	Standard Capacity (GPM)	HV Capacity (GPM)	Cv Rating
2	62	105	72
2.5	96	155	116
3	138	225	168
4	245	405	350
5	383	630	404
6	550	910	450
8	980	1,610	950
10	1,530	2,350	1,463
12	2,205	3,500	2,000
14	2,530	4,625	2,362
16	3,300	5,785	3,255
18	4,180	7,460	4,048
20	5,200	8,950	5,049
22	6,165	10,855	6,216
24	7,500	13,050	8,234

For dimension and technical information please see submittals A-326.11B through A-326.18B.

\* Larger sizes up to 36" available upon request. Consult your local Bell & Gossett representative for more information



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