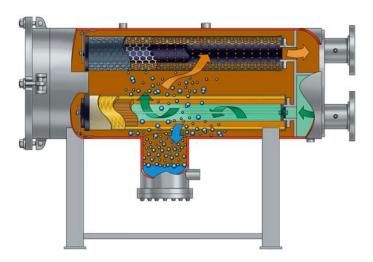
Horizontal Coalescer Separators for Fixed Installations API-1581, Category C, Type S, 5th Edition

HCS Series (End Opening)



Facet HCS Series (end opening) two-stage horizontal coalescer separator housings are mechanical devices to filter solids and separate water from fuels where water content is a problem. They have been qualified after full-scale, witnessed testing to the Fifth Edition of API Bulletin 1581.

RELIABLE PERFORMANCE

Facet coalescer separators are a result of over 50 years of continuous research and development to meet the ever demanding performance requirements in the aviation fuel handling industry. This, along with proven field performance, demonstrates Facet's ability to provide quality products that meet current specifications as well as specific customer requirements for installations in refineries, bulk storage, terminals, heliports, airports, etc.

STANDARD HOUSING DESIGN

- Welded carbon steel construction—other materials available on request
- ASME Code, Section VIII construction, stamped and certified
- Design pressure: 150 psi @ 250°F—other design pressures available on request
- Inlet, outlet and drain connections permanently marked
- Interior: Epoxy coated (MIL-C-4556)
- Exterior: Prime coated
- · Swing bolt head closures
- Hinged end opening cover furnished on 24" (610 mm) OD and larger
- Flanged inlet and outlet connections
- Buna-N o-ring closure seal
- Choice of rod or screw base coalescer cartridge mounting styles
- 4" inlet/outlet cleanout/inspection connections (when permitted by design)
- Knife edge cartridge mounting seals
- Spider plate attached to vessel wall

OPTIONS

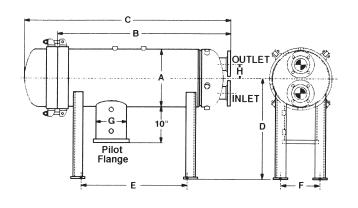
- * Automatic air eliminator with check valve
- * Pressure relief valve
- * Differential pressure gauge
- Pilot control valve
- Pilot tester
- Water slug control valve
- Electrical water-level alarm
- Water drain valves
- Liquid level gauge
- Blind cover for pilot control mounting flange
- Immersion heaters
- Sampling probe

(* Mandatory for 5th Edition)

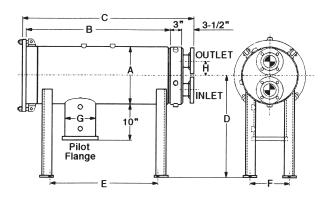
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Horizontal Coalescer Separators for Fixed Installations API-1581, Category C, Type S, 5th Edition

HCS Series (End Opening)



STYLE A



STYLE B

DATA

| DATA | | | | | | | | | | | | | |
|--------------------------------|---|------|-----------|------------|-------|-----------|------------------|-------|---------------|-----|------------------|--|--|
| MODEL NUMBER ⁽¹⁾ | FLOW | | R | EQUIRED C | IDGES | HOUSING | | HOL | ISING | | | | |
| | AVIATION FUEL API 1581, CATEGORY C, TYPE S | | COALESCER | | SEP | ARATOR* | LIQUID VOLUME | | DRY WEIGHT | | HOUSING TYPE | | |
| | gpm | lpm | qty. | model qty. | | model | gals. | Itrs. | lbs. kgs. | | | | |
| HCS-222-1324 | 100 | 400 | 2 | CAA22-5SB | 1 | SS324FA-5 | 22 | 83 | 450 | 205 | Style B - Flat | | |
| HCS-322-1422 | 150 | 567 | 3 | CAA22-5SB | 2 | SS422FB-5 | 30 | 113 | 475 | 215 | Style B - Flat | | |
| HCS-333-1436 | 243 | 946 | 3 | CAA33-5SB | 1 | SS436FB-5 | 40 | 151 | 500 | 227 | Style B - Flat | | |
| HCS-343-133 | 300 | 1135 | 3 | CAA43-5SB | 1 | SS633FB-5 | 58 | 220 | 775 | 352 | Style B - Flat | | |
| HCS-443-143 | 400 | 1514 | 4 | CAA43-5SB | 1 | SS643FF-5 | 72 | 272 | 800 | 363 | Style B - Flat | | |
| HCS-556-233 | 600 | 2271 | 5 | CAA56-5SB | 2 | SS633FF-5 | 120 | 454 | 1350 | 613 | Style A - Dished | | |
| HCS-756-248 | 1000 | 3785 | 7 | CAA56-5SB | 2 | SS648FF-5 | 171 | 647 | 1450 | 657 | Style A - Dished | | |
| HCS-856-340 | 1200 | 4542 | 8 | CAA56-5SB | 3 | SS640FF-5 | 276 | 1144 | 1550 | 703 | Style A - Dished | | |
| HCS-1056-348 | 1500 | 5678 | 10 | CAA56-5SB | 3 | SS648FF-5 | 314 | 1188 | 1600 | 725 | Style A - Dished | | |

Other sizes available on request.

Example: SS324FA-5 would change to ST324FA-5.

DIMENSIONS

| MODEL NUMBER ⁽¹⁾ | INLET/ OUTLET DIAMETER | | DIMENSIONS ⁽²⁾ | | | | | | | | | | | | | | | |
|--------------------------------|------------------------------|-----|---------------------------|-----|-------|------|-------|------|-----|-----|-----|------|-----|-----|--------------|-----|------|-----|
| | | | Α | | В | | С | | D | | E | | F | | G | | Н | |
| | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. | in. | mm. |
| HCS-222-1324 | 2 | 51 | 14 | 356 | 35½ | 902 | 40 | 1016 | 28 | 711 | 18 | 457 | 9 | 229 | 8 5/8 | 219 | 41/2 | 114 |
| HCS-322-1422 | 3 | 76 | 16 | 406 | 35½ | 902 | 40 | 1016 | 28 | 711 | 18 | 457 | 11 | 279 | 85/8 | 219 | 5 | 127 |
| HCS-333-1436 | 3 | 152 | 16 | 406 | 47 | 1194 | 52 | 1321 | 28 | 711 | 30 | 762 | 11 | 279 | 85/8 | 219 | 5 | 127 |
| HCS-343-133 | 4 | 152 | 18 | 457 | 601/4 | 1530 | 61½ | 1562 | 29 | 737 | 38 | 965 | 14 | 356 | 85/8 | 219 | 5 | 127 |
| HCS-443-143 | 4 | 152 | 20 | 508 | 601/4 | 1530 | 61½ | 1562 | 30 | 762 | 38 | 965 | 14 | 356 | 85/8 | 219 | 6 | 152 |
| HCS-556-233 | 6 | 203 | 22 | 559 | 741/4 | 1886 | 85 | 2159 | 31 | 787 | 45 | 1143 | 15 | 381 | 85/8 | 219 | 6 | 152 |
| HCS-756-248 | 6 | 203 | 26 | 660 | 743/4 | 1900 | 861/2 | 2197 | 33 | 838 | 45 | 1143 | 18 | 458 | 85/8 | 219 | 8 | 203 |
| HCS-856-340 | 6 | 203 | 32 | 813 | 763/4 | 1950 | 901/4 | 2292 | 36 | 914 | 45 | 1143 | 24 | 610 | 85/8 | 219 | 8 | 254 |
| HCS-1056-348 | 8 | 254 | 34 | 863 | 771/4 | 1962 | 911/4 | 2318 | 37 | 940 | 45 | 1143 | 26 | 660 | 85/8 | 219 | 8 | 254 |

All dimensions, weights and volumes are approximate and are for estimating purposes only.

REFERENCE NOTES:

- Model numbers include housing style and required cartridge mounting.
- (2) Dimensions are based on standard 150 psi housing design pressure, are approximate and should not be used for installation purposes.

Teflon is a registered trademark of E. I. DuPont De Nemours Co. Inc.

NOTES:

- a. All elements are mounted against knife edge seals.
- **b.** Nameplate to be stamped with API classified data.
- **c.** Inlet chamber to be hydrostatic tested at 115 psi (793 kPa).
 - d. Coalescer cartridges are offered with a choice of rod or screw base mounting. The suffix "SB" will be added to the coalescer model number when screw base is required.

Example: CAA33-5 = Rod Mount

CAA33-5SB = Screw Base

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^{*} Separators: If preferred, Teflon® separator cartridges can be used in place of Synthetic. The separator cartridge model number's prefix would change from SS to ST.