

# CSD

## Diesel Coalesce Non-Powered Filtration System

Remove water to extend fuel injector life and increase combustion fuel efficiency. The CSD is designed for direct integration into fuel delivery systems with pump flow and pressure already in place for easy, streamlined water removal through your existing system. Using high efficiency coalesce and separating media, the CSD will keep diesel free from water contamination down to 50 ppm in a single pass.

Ideal for construction fueling depots, tank farms and common fuel rail applications.

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Donaldson.  
HY-PRO™

[hyprofiltration.com/](http://hyprofiltration.com/)



## Protect your uptime.

By removing water from your diesel systems, you're providing the best environment for your equipment to operate efficiently and helping to prevent breakdowns and damage, saving you time and effort. CSD systems rapidly remove water down to saturation point, protecting your systems and letting you focus on the job at hand.



## Media matters.

Cellulose media is known to break down under high water content, resulting in media migration and loss of coalescence efficiency. CSD's 100% synthetic coalesce and separator elements contain no cellulose and feature a pleated synthetic configuration to maximize surface area and ensure your fuel rail and high pressure injectors will be protected and running more efficiently than ever.

## Don't quit your day job.

Designed for 24/7 unattended operation, CSDs with auto water drain technologies, available mechanically or electrically powered, provide you with the safety and security to know your diesel is clean and dry so you can forget worrying about your filtration and focus on the job at hand.



## Setting the new standard.

Sampling and preventative maintenance are no longer optional, they're a necessity. Knowing your diesel is clean is the first step in prolonging the life of your fuel injectors and critical components. CSD series housings come standard with easy-to-access sample ports in their proper positions so you can always know you're putting clean, dry diesel into your systems.

## Combined filtration, double the power.

A properly sized Donaldson Hy-Pro CSD plus Donaldson Hy-Pro high efficiency particulate filtration will deliver diesel fuel cleanliness codes of 15/13/10 and better while maintaining water levels at 50 ppm. Pair your CSD with an LF housing in-line on your system and rest assured knowing your fuel injectors are protected.



## Integrated results.

Installing CSDs in-line on your current system means you get powerful filtration exactly where you need it – directly upstream of your critical components. With standard models ranging up to 600 gpm, your diesel will be dry and components protected whether you're on a small diesel tank farm or a massive diesel fired turbine.

# CSD Specifications

Model	CSD30	CSD120	CSD200	CSD400	CSD600
Max Flow Rate	30 gpm (114 lpm)	120 gpm (454 lpm)	200 gpm (757 lpm)	400 gpm (1514 lpm)	600 gpm (2271 lpm)
Weight <sup>1</sup>	164 lbs (74 kg)	319 lbs (177 kg)	546 lbs (248 kg)	1097 lbs (498 kg)	1155 lbs (524 kg)
Height <sup>1</sup>	62" (158 cm)	74" (188 cm)	82" (209 cm)	82" (209 cm)	82" (209 cm)
Width <sup>1</sup>	22" (56 cm)	32" (82 cm)	36" (92 cm)	48" (122 cm)	48" (122 cm)
Length <sup>1</sup>	22" (56 cm)	27" (69 cm)	32" (82 cm)	40" (102 cm)	40" (102 cm)
Coalesce Elements	1 x HP538L38-CSV <sup>2</sup>	2 x HP731L39-CV	3 x HP731L39-CV	6 x HP731L39-CV	8 x HP731L39-CV
Separator/ Polish Elements	(combination element)	1 x HP582L30-S25MV	2 x HP582L30-S25MV	3 x HP582L30-S25MV	5 x HP582L30-S25MV
Materials of Construction	<b>Housing</b> Industrial coated steel	<b>Tray</b> Industrial coated steel	<b>Hoses</b> Reinforced synthetic		
Media Description	<b>Coalesce</b> 100% synthetic fiber media		<b>Separator</b> TEFLON <sup>®</sup> coated screen (water barrier)		
Fluid Compatibility	Petroleum based fuels, #2 Diesel (standard). For other fuel options contact factory.				

<sup>1</sup>Weights and dimensions are approximations taken from base model and will vary according to options chosen.

<sup>2</sup>HP538L38-CSV element combines coalesce and separator element functions into a single element.

TEFLON<sup>®</sup> is a registered trademark of DuPont.

# CSD Part Number Builder



Flow Rate <sup>1</sup>	
<b>30</b>	30 gpm (114 lpm)
<b>120</b>	120 gpm (454 lpm)
<b>200</b>	200 gpm (757 lpm)
<b>400</b>	400 gpm (1514 lpm)
<b>600</b>	600 gpm (2271 lpm)

Port Connections	Connection Type	CSD Series Availability
<b>B2</b>	2" BSPP	30-120
<b>C2</b>	2" SAE Code 61 flange	30-120
<b>C3</b>	3" SAE Code 61 flange	30-120
<b>D2</b>	DN50 DIN flange	30-120
<b>D3</b>	DN65 DIN flange	30-120
<b>D4</b>	DN100 DIN flange	200-400
<b>D5</b>	DN125 DIN flange	200-400
<b>D6</b>	DN150 DIN flange	200-400
<b>D8</b>	DN200 DIN flange	200-600
<b>D10</b>	DN250 DIN flange	200-600
<b>F2</b>	2" ANSI flange	30-120
<b>F3</b>	3" ANSI flange	30-120
<b>F4</b>	4" ANSI flange	200-400
<b>F6</b>	6" ANSI flange	200-600
<b>F8</b>	8" ANSI flange	200-600
<b>F10</b>	10" ANSI flange	200-600
<b>F12</b>	12" ANSI flange	200-600
<b>N2</b>	2" NPT	30-120

Seals	
<b>B</b>	Nitrile (Buna) <sup>1</sup>
<b>V</b>	Fluorocarbon

Special Options	
<b>AX</b>	Auto water drain - mechanical (no electrical) <sup>2</sup>
<b>AE</b>	Auto water drain - electrically operated solenoid valve (120 V ac, 1P, 60Hz <sup>3</sup> )
<b>AE1</b>	Auto water drain - electrically operated solenoid valve (110 V ac, 1P, 50Hz <sup>3</sup> )
<b>AE2</b>	Auto water drain - electrically operated solenoid valve (230 V ac, 1P, 60Hz <sup>3</sup> )
<b>AE3</b>	Auto water drain - electrically operated solenoid valve (220 V ac, 1P, 50Hz <sup>3</sup> )
<b>B</b>	Auto air bleed valve <sup>4</sup>
<b>M</b>	Water discharge totalizing meter
<b>S</b>	All wetted components 303 or higher stainless steel
<b>T</b>	Optional drip tray + fork life guides

<sup>1</sup>Not suitable for bio diesel.

<sup>2</sup>Suitable for adding to existing fuel delivery system with existing pressure and flow. Auto water drain option is mechanical.

<sup>3</sup>Requires power supply.

<sup>4</sup>Recommended options.

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

**Want to find out more? Get in touch.**

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