DATA SHEET

HDPE CDS®

PRODUCT DESCRIPTION : Continuous deflection hydrodynamic separator

FUNCTION : System that maximizes removal of Total Suspended Solids (TSS), oils and floating debris from surface runoff before it is conveyed to an outlet.

RAW MATERIALS : Structure : high-density polyethylene (HDPE) ASTM D3350
Separation screen : type 316 and 316L stainless steel, ASTM F 1267-01
Treatment device : fiberglass ASTM D-4097

TECHNICAL DATA : Diameters: 900 mm (36 in) to 3000 mm (118,1 in)
Structural strength: CAN/CSA - S6 - 02 (CL-625) and AASHTO (H-25 and HS-25)



HDPE CDS-5

TECHNICAL DATA TABLE

Model	Diameter						Height				Floor area		Minimum weight of the complete device[2]		Surface access		
	Nominal		Interior		Outside[1]		Standard (between outlet invert and the bottom of the structure)		Minimum (between outlet invert and inner top of structure								
	mm	in	mm	in	mm	in	mm	in	mm	in	m^2	ft^2	kg	lb	Un.	mm	in
CDS-3	900	36	900	35.4	1050	41.4	1175	46.3	914	36	0.6	6.8	342	754	1	900	36
CDS-4	1200	47.2	1200	47.2	1348	53.1	1276	50.3	1519	60	1.1	12.2	607	1338	1	750	30
CDS-5	1500	59.1	1500	59.1	1696	66.8	1454	57.3	1519	60	1.8	19.0	871	1920	1	750	30
CDS-6	1800	70.9	1800	70.9	2000	78.7	1746	68.8	1519	60	2.5	27.4	1381	3045	1 2	600 300	24 12
CDS-8	2400	94.5	2400	94.5	2640	103.9	2362	93.0	1519	60	4.5	48.7	2448	5397	2	600	24
CDS-10	3000	118	3000	118.1	3256	128.2	2765	108.9	2129	84	7.1	76.1	4086	9008	2	600	24

Note 1 : Add 300 mm (12 in) to the outside diameter for the overall dimension of the system. This is 150 mm (6 in) of excess bottom plate around the perimeter allowing system stabilization and anchoring to counter buoyancy, if required. It is important to refer to the shop drawings for the actual weights.

Note 2 : The weights are given for information only. It is important to refer to the shop drawings for the actual weights.

Note 3 : Values in the table are approximate and may change without notice.

Note 4 : Contact your cast iron supplier for the exact dimensions of available frames and grates.

Note 5: Refer to the minimum angle chart to verify inlet and outlet pipe configuration.

SOLENO
MASTERING WATER SUSTAINABLY

DATA SHEET

HDPE CDS® (CONT'D)

DESIGN DATA TABLE

Model	Maximum treatment flow (as per ETV Canada)		Maximum peak flow(1)		Sediment storage capacity		Oils and floating debris storage capacity		Max. nominal diameter of the connection pipe(2)		Separation screen			
											Diameter		Height	
	l/s	ft^3/s	l/s	ft^3/s	m^3	ft^3	liters	gallons	mm	in	mm	in	mm	in
CDS-3	4.7	0.16	425	15	0.4	14.1	232	61	450	18	533	21.0	457	18.0
CDS-4	8.6	0.3	566	20	0.7	24.7	313	83	600	24	724	28.5	508	20.0
CDS-5	14.1	0.5	708	25	1.0	35.3	376	99	750	30	829	32.6	686	27.0
CDS-6	19.6	0.7	850	30	1.6	56.5	439	116	900	36	1003	39.5	927	36.5
CDS-8	35.3	1.20	1133	40	4.3	151.9	795	210	1200	48	1334	52.5	1245	49.0
CDS-10	55.7	2.0	1416	50	6.7	236.6	895	236	1500	60	1822	71.8	1651	65.0

Note 1 : Maximum peak flows are calculated with a standard internal cylinder height.
Note 2 : Note that the maximum diameter is indicated for a configuration with one inlet and one outlet. For a different configuration, please contact your Soleno representative.
Note 3 : Values in the table are approximate and may change without notice.

APPLICATIONS : Control of TSS, oils and floating debris by hydrodynamic separation
Storm water sewer
Treatment and pretreatment

OPTIONS : Special fittings available on request
Adjustable frame and cover
Collecting grate (deflector pan included)
Fiberglass central cylinder extension