

(Including optional accessories)

Facet VCS Series two-stage vertical coalescer separator housings are mechanical devices designed to filter solids and separate two immiscible liquids. Using Facet's first-stage coalescer cartridges and second stage separator cartridges, they provide the highest degree of water and solids removal available.

These quality Facet products are designed for installations in petrochemical plants, refineries, power plants, bulk storage terminals, offshore platforms, manufacturing plants and many other industrial applications.

STANDARD HOUSING DESIGNS

- Body: Welded carbon steel construction — other materials available by request
- ASME Code, Section VIII, Div. 1, stamped and certified
- Designed for 150 psi (10.5 kg/cm²) @ 250°F — higher pressures and temperatures available by request
- Inlet and outlet permanently marked
- Exterior: Prime coated
- Swing bolt head closures
- Head Gasket: Buna-N o-ring — other materials available by request
- Headlift furnished on 18" (457 mm) OD and larger

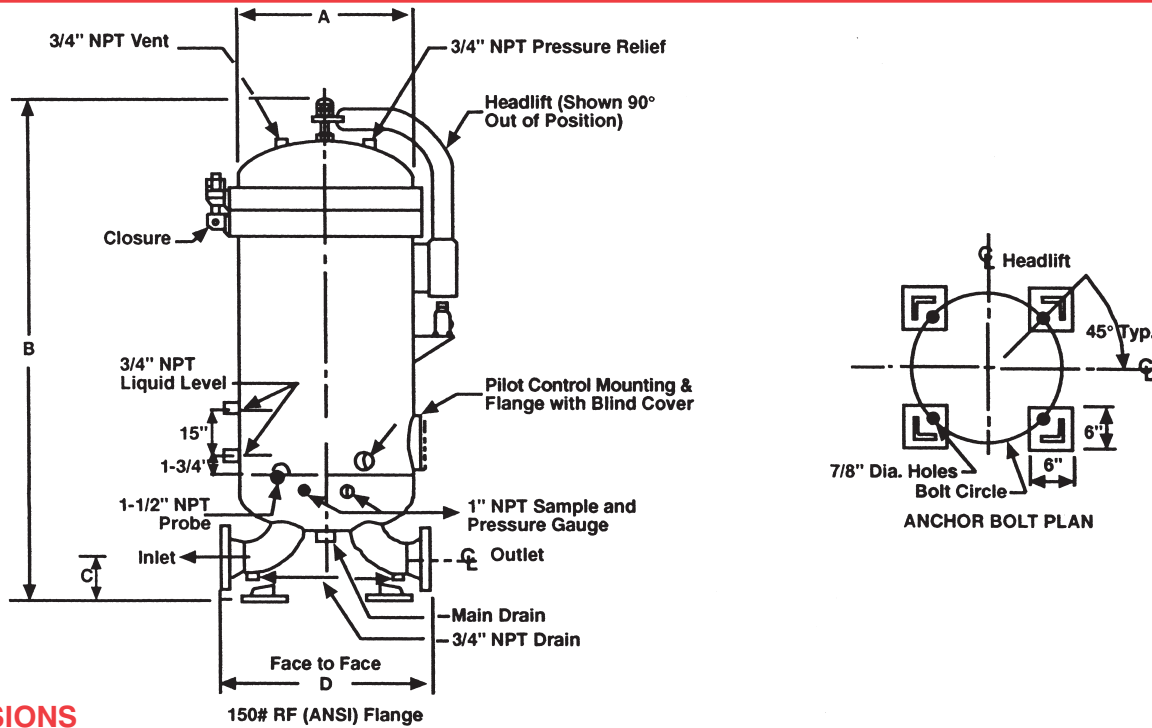
STANDARD CONNECTIONS

- Inlet and outlet: 150# RF (ANSI) flanged
- All other connections are 3000# NPT couplings

OPTIONS

- Automatic air eliminator
- Differential pressure gauge
- Immersion heaters
- Liquid level gauge
- Pressure relief valve
- Sampling probe
- Special connections available
- Drain valves
- Blind cover for pilot control mounting flange
- Interior epoxy coating

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DIMENSIONS

MODEL NUMBER	HEAD STYLE	CONNECTIONS				DIMENSIONS								DRY WEIGHT W/CTGS.		HOUSING LIQUID VOLUME		GASKET PART NUMBER
		INLET/OUTLET		MAIN DRAIN		A		B		C		D		lbs.	kgs.	gal.	ltr.	
		in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.					
VCS-222-122	Flat	2	51	1	25	16	406	51 5/8	1311	6	152	17	432	600	272	34	129	609919
VCS-243-222	Flat	3	76	1	25	18	457	76 5/8	1946	6	152	23	584	700	318	58	220	697181
VCS-328-222	Flat	3	76	1	25	20	508	63 5/8	1616	6	152	23	584	750	340	60	227	609920
VCS-343-228	Flat	4	102	1	25	20	508	77 3/4	1975	6	152	28	711	845	383	78	295	609920
VCS-443-328	Flat	4	102	1	25	24	610	80	2032	6	152	28	711	995	451	110	416	694956
VCS-456-428	Flat	6	152	1	25	24	610	96 3/8	2448	7 1/2	191	36	914	1050	476	137	519	694956
VCS-643-428	Flat	6	152	1	25	26	660	85 1/4	2165	7 1/2	191	37	940	1100	499	132	500	678775
VCS-743-433	Dome	6	152	1	25	28	711	93 7/8	2384	7 1/2	191	36	914	1300	590	165	625	676384
VCS-656-533	Dome	6	152	1 1/2	38	28	711	107 5/8	2734	7 1/2	191	36	914	1375	624	200	757	676384
VCS-843-533	Dome	6	152	1 1/2	38	30	762	95 1/4	2419	7 1/2	191	36	914	1450	658	195	738	691977
VCS-1043-633	Dome	8	203	1 1/2	38	34	864	99 3/8	2524	9	229	48	1219	1950	885	250	946	604459
VCS-856-733	Dome	8	203	1 1/2	38	32	813	113 1/2	2883	9	229	46	1168	1850	839	265	1003	697801
VCS-1243-733	Dome	8	203	1 1/2	38	36	914	101 3/8	2575	9	229	48	1219	2150	975	290	1098	678228
VCS-1343-833	Dome	8	203	2	51	38	965	102 1/4	2597	9	229	48	1219	2350	1066	330	1249	678725
VCS-1643-1033	Dome	10	254	2	51	42	1067	107 1/4	2724	10	254	54	1372	3250	1474	425	1609	678677
VCS-1943-1528	Dome	10	254	2	51	48	1219	104 1/2	2654	10	254	60	1524	3662	1661	458	1734	693058
VCS-1656-1728	Dome	10	254	2	51	48	1219	119	3023	10	254	60	1524	3788	1718	571	2161	693058
VCS-2056-2228	Dome	12	305	2	51	54	1372	124 1/16	3167	12	304	69	1753	4400	1996	890	3369	679052
VCS-2456-2628	Dome	12	305	2	51	60	1524	128 1/2	3264	12	305	71	1803	5625	2551	1155	4372	681407
VCS-2856-3028	Dome	14	356	2	51	66	1676	142 7/8	3629	14	356	80	2032	6450	2926	1380	5223	679054

NOTES: Dimensions shown are intended for estimating purposes only. Contact your **Facet** representative for certified drawings.

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FLOW RATES

(Subject to Limitations Contained in Footnotes)

MODEL NUMBER VFCS-C-	MAXIMUM FLOW RATES RECOMMENDED FOR VISCOSITIES SHOWN ⁽²⁾																							
	PERF. ⁽¹⁾		31 SSU		33.0 SSU		36.0 SSU		39.0 SSU		42.3 SSU		45.5 SSU		52.0 SSU		58.8 SSU		97.5 SSU		150.0 SSU		200.0 SSU	
	Solids	Water	1 CS		2.2 CS		3.0 CS		4.0 CS		5.0 CS		6.0 CS		8.0 CS		10.0 CS		20.0 CS		32.0 CS		43.0 CS	
	Micron	ppm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
VCS-222-122	25	40																			OA	OA	OA	OA
	5	10	145	549	120	454	90	341	65	246	50	189	45	170	30	114	25	95	10	38	OA	OA	OA	OA
	2	<10																			8	30	6	23
VCS-243-222	0.5	<5																			6	23	4	15
	25	40	270	1022	225	852	165	625	125	473	100	379	80	303	60	227	50	189	25	95	OA	OA	OA	OA
	5	10																			OA	OA	OA	OA
VCS-328-222	2	<10																			14	53	10	38
	0.5	<5																			11	42	7	27
	25	40	270	1022	225	852	165	625	125	473	100	379	80	303	60	227	50	189	25	95	OA	OA	OA	OA
VCS-343-228	5	10																			OA	OA	OA	OA
	2	<10	400	1514	335	1268	245	927	185	700	145	549	120	454	90	341	75	284	35	132	OA	OA	OA	OA
	0.5	<5																			20	76	15	57
VCS-443-328	25	40																			15	57	10	38
	5	10	535	2025	445	1684	325	1230	245	927	195	738	160	606	120	454	100	379	50	189	OA	OA	OA	OA
	2	<10																			27	102	20	76
VCS-456-428	0.5	<5																			20	76	14	53
	25	40	720	2725	600	2271	440	1665	330	1249	265	1003	215	814	160	606	130	492	65	246	OA	OA	OA	OA
	5	10																			37	140	27	102
VCS-643-428	2	<10																			28	106	18	68
	0.5	<5	805	3047	670	2536	490	1855	370	1400	295	1117	240	908	180	681	145	549	70	265	OA	OA	OA	OA
	25	40																			41	155	31	117
VCS-743-433	5	10																			31	117	21	80
	2	<10	935	3539	780	2952	570	2157	430	1628	345	1306	280	1060	210	795	170	643	85	322	OA	OA	OA	OA
	0.5	<5																			48	182	36	136
VCS-656-533	25	40																			36	136	27	102
	5	10	1075	4069	895	3388	655	2479	490	1855	395	1495	320	1211	240	908	195	738	95	360	OA	OA	OA	OA
	2	<10																			55	208	41	155
VCS-843-533	0.5	<5																			42	159	28	106
	25	40	1075	4069	895	3388	655	2479	490	1855	395	1495	320	1211	240	908	195	738	95	360	OA	OA	OA	OA
	5	10																			55	208	41	155
VCS-1043-633	2	<10																			42	159	28	106
	0.5	<5	1340	5072	1115	4220	815	3085	615	2328	490	1855	400	1514	300	1136	245	927	120	454	OA	OA	OA	OA
	25	40																			69	261	51	193
VCS-856-733	5	10																			52	197	35	133
	2	<10	1435	5431	1195	4523	870	3293	655	2479	525	1987	430	1628	325	1230	265	1003	130	492	OA	OA	OA	OA
	0.5	<5																			56	212	21	80
VCS-1243-733	25	40																			74	280	55	208
	5	10	1610	6094	1340	5072	980	3709	735	2782	590	2233	480	1817	360	1363	295	1117	145	549	OA	OA	OA	OA
	2	<10																			83	314	62	235
VCS-1343-833	0.5	<5																			62	235	42	159
	25	40	1740	6586	1450	5488	1060	4012	800	3028	640	2422	520	1968	390	1476	320	1211	160	606	OA	OA	OA	OA
	5	10																			90	341	67	254
VCS-1643-1033	2	<10																			68	257	45	170
	0.5	<5	2140	8100	1785	6756	1605	6075	980	3709	785	2971	645	2441	480	1817	395	1495	195	738	OA	OA	OA	OA
	25	40																			110	416	83	314

NOTE: The above flow rates are sizing guides only. Calculations of specific service conditions may result in units with flow rates other than those shown above.

OA = On Application

- (1) Nominal Micron rating is based on removing 96 to 98% of all solids larger than the rating shown in one pass through a clean cartridge.
- (2) Flow rates are based on normal conditions when the interfacial tension between the water and the continuous phase is not less than 36 dynes per centimeter, operating temperature does not exceed 240°F, and pH value between 5 and 9.

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