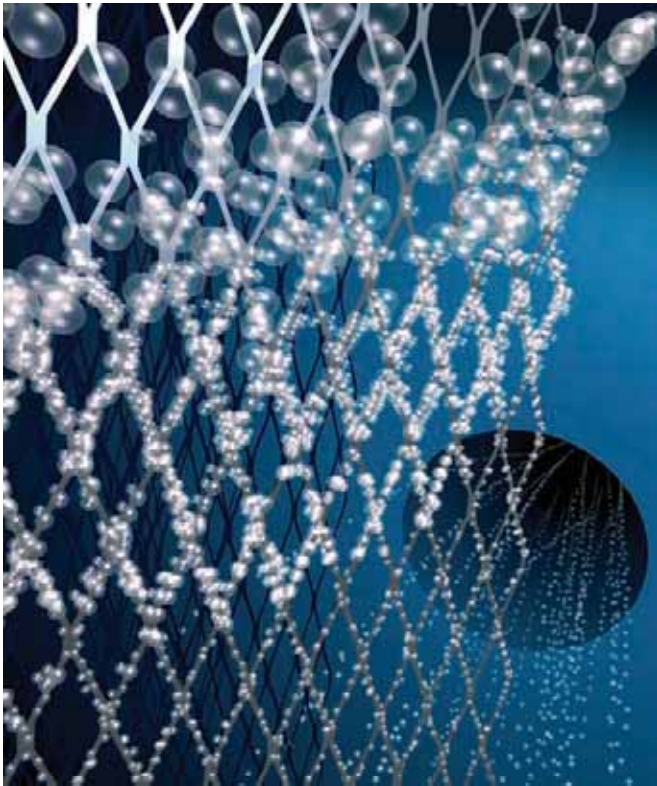


The DISCAL air separator uses a coalescing element that consists of an assembly of concentric mesh surfaces. This element creates the whirling movement required to facilitate the release of micro-bubbles and their adhesion to these surfaces. The bubbles, fusing with each other, increase in volume until the hydrostatic thrust overcomes the adhesion force to the structure. They rise towards the top of the unit from which they are released through float-operated automatic air release valve.



551 DISCAL tech brochure 01060

Air separator. Epoxy resin coated steel body.
1" NP bottom thread.
ANSI flanged connections.
Max. working pressure: 150 psi.
Working temperature range: 250°F.



Code	Description	Pk	Lbs
551050A	2" ANS flange	1	33.1
551060A	2-1/2" ANS flange	1	34.2
551080A	3" ANS flange	1	61.7
551100A	4" ANS flange	1	66.1
551120A	5" ANS flange	1	105.8
551150A	6" ANS flange	1	116.8

NA551 DISCAL ASME tech brochure 01060

Air separator. Epoxy resin coated steel body. 1" NP bottom thread.
ANSI flanged connections.
Max. working pressure: 150 psi.
Working temperature range: 250°F.
ASME National Board registered



Code	Description	Pk	Lbs
NA551050A	2" ANS flange ASME	1	33.1
NA551060A	2-1/2" ANS flange ASME	1	34.2
NA551080A	3" ANS flange ASME	1	61.7
NA551100A	4" ANS flange ASME	1	66.1
NA551120A	5" ANS flange ASME	1	105.8
NA551150A	6" ANS flange ASME	1	116.8

The fluid velocity at connections for Discal 551 series air separators is recommended to not exceed 10.0 f/s (feet per second). Above this speed, heavy internal turbulence and noise can occur and air elimination efficiency begins to fall measurably. Optimal air elimination performance occurs at fluid velocities of 4.2 f/s or less. See the flow capacity chart

		FLOW CAPACITY						
		Size	2"	2 1/2"	3"	4"	5"	6"
ptimal 4.2 f/s	GPM	37	63	95	149	259	380	
Max 10.0 f/s	GPM	89	150	227	355	616	904	
	C	86	179	211	345	520	809	

NA551 DISCAL ASME tech brochure 01060

Air separator. Epoxy resin coated steel body. 1" NP bottom thread.
NP threaded connections.
Max. working pressure: 150 psi.
Working temperature range: 250°F.
ASME National Board registered



Code	Description	Pk	Lbs
NA551050T	2" Threaded ASME	1	20.5
NA551060T	2-1/2" Threaded ASME	1	21.0
NA551080T	3" Threaded ASME	1	44.0
NA551100T	4" Threaded ASME	1	46.2