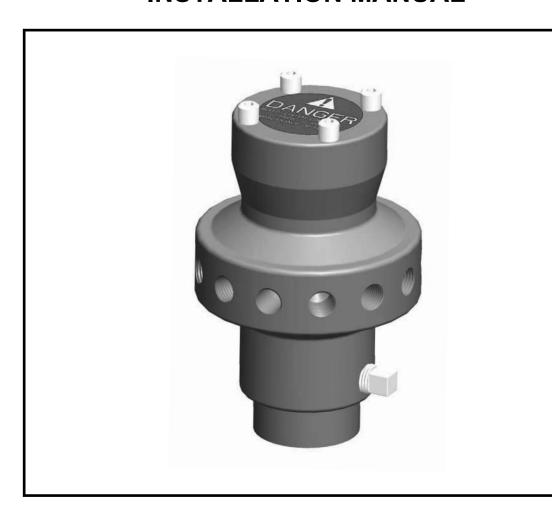


IP-0600 IP-1300 IP-1800 IMPELLICONE®

Flow Divider for Anhydrous Ammonia

PARTS AND INSTALLATION MANUAL



CDS-JOHN BLUE COMPANY

DIVISION OF ADVANCED SYSTEMS TECHNOLOGY, INC. 290 Pinehurst Drive - Huntsville, Alabama 35806 P.O. Box 1607 - Huntsville, Alabama 35807

Telephone: (256) 721-9090 - FAX: (256) 721-9091 - Toll Free: 1-800-253-2583

PRINTED IN USA 12-M-29 Rev 8/12

Note to the Owner

Study this manual carefully. It will assist you in the care, installation and operation of your CDS – John Blue Flow Divider. Familiarize yourself with all parts before attempting to operate or service your flow divider.

Enter the serial number and date of purchase in the space provided for future reference. This information will be required for ordering replacement parts or servicing your flow divider.

CDS – John Blue Engineering Department constantly improves its products. We reserve the right to make design and specification changes without notice.

SERIAL NUMBER:	DATE OF PURCHASE:
----------------	-------------------

Safety Precautions

- Danger: This symbol indicates imminently hazardous situation that, if not avoided, will result in serious injury or death. The sign will have the color combination of red and white.
- Safety Equipment such as gloves, goggles, etc. should be worn at all times while performing any repairs or maintenance to the Impellicone Flow Divider.
- A careful operator is the best insurance against an accident
- Only qualified and responsible people should operate equipment.
- Check all valves, fittings, hose clamps, etc for tightness and soundness before emitting
 anhydrous ammonia to the system. Only use components with materials that are compatible
 with anhydrous ammonia.
- Do not attempt to service or disconnect the Impellicone without first closing the tank outlet valve and completely bleeding all hoses and cavities of anhydrous ammonia.
- If anhydrous ammonia contacts the skin or eyes, the effected area should be promptly and thoroughly flushed with water, following all appropriate guidelines. See a physician in all severe cases of anhydrous ammonia burns.
- Use only approved anhydrous ammonia equipment.

INSTALLATION AND OPERATION

Installation should be made by remote mounting the Impellicone Flow Divider <u>vertically</u> with the cap of the unit at the top, and keeping the cap as level as possible with the ground. Attach the discharge hose from the anhydrous ammonia metering device (pump or meter) to the 1" NPT inlet port on the bottom the Impellicone body. (For maximum distribution accuracy use a 6" or longer piece of straight pipe in the inlet of the Impellicone manifold to help smooth out the flow.)

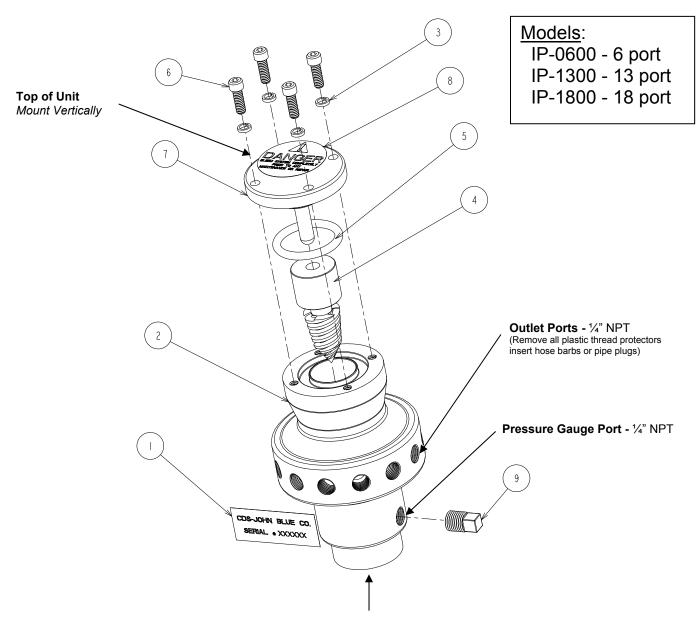
If more than one Impellicone is needed per machine, use an Impellicone splitter (IPS-x) to divide up the flow out of the metering device.

You may directly attach a pressure gauge to the provided pressure gauge port, or remote mount the gauge in a safe location. In the event that you do not use the pressure gauge port, leave the provided 1/4" NPT stainless pipe plug in the port.

Each port should be connected to the hose that will carry the anhydrous ammonia to the point of application. For maximum distribution accuracy, use roughly the same length hose between the Impellicone and the shank. If you do not use all the ports, evenly space the used ports along the circumference of the flow divider and plug the unused ports with ½" NPT stainless pipe plugs.

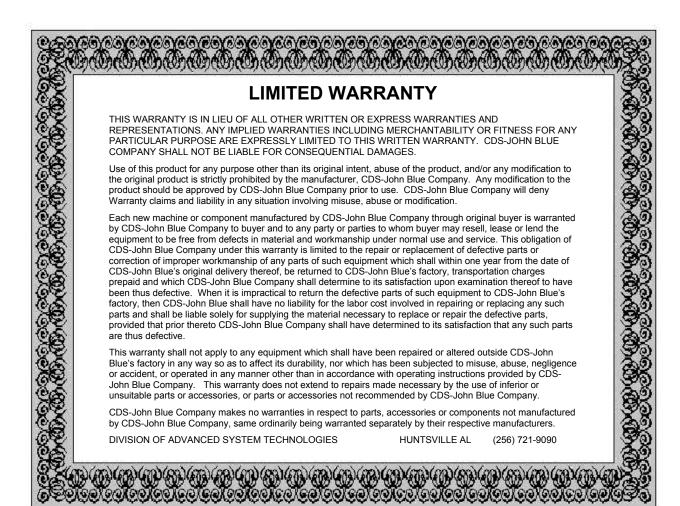
Note: The plastic thread protectors in the ports are not plugs, remove before use.

ASSEMBLY DRAWING AND PARTS LIST



Inlet Port – 1" NPT (Connect to discharge from pump or meter, recommend using straight pipe)

		IP-0600 Parts List		IP-1300 Parts List		IP-1800 Parts List	
Item	Description	Part #	Qty	Part #	Qty	Part #	Qty
1	Serial Tag	115496-01	1	115496-01	1	115496-01	1
2	Aluminum Body	116084-01	1	115518-01	1	115532-01	1
3	High Collar Lock Washer SS	115519-01	4	115519-01	4	115519-01	5
4	Impellicone Needle	115520-01	1	115520-01	1	115531-01	1
5	O-ring	115521-01	1	115521-01	1	115530-01	1
6	1/4-20 SHCS Stainless Steel	115525-01	4	115525-01	4	115525-01	5
7	Cap Assembly	115526-91	1	115526-91	1	115529-01	1
8	Danger Tag (Included In Cap Assembly)	115527-01	1	115527-01	1	115527-01	1
9	1/4 NPT Plug SS	115533-01	1	115533-01	1	115533-01	1





CDS-John Blue Company

Division of Advanced Systems Technology

290 Pinehurst Dr., Huntsville AL 35806 PO Box 1607, Huntsville AL 35807

Telephone: (256) 721-9090 • Fax (256)-721-9091 • Toll Free 1-800-253-2583

YOUR LOCAL DEALER