

COMBO-RATE® II Integrated Nozzle Bodies

One-Way Stacking Integrated COMBO-RATE® II Nozzle Bodies

One-way stacking COMBO-RATE nozzle bodies stack to the left with one open u-clip port. Typically using a manual on/off module, these bodies can be used to spray separately than turrets/bodies or simultaneously from multiple nozzles. Multiple nozzle spraying can be an effective way to improve coverage in high volume applications to make a more meaningful mix of droplets.



HOW THEY WORK: Manual ON/OFF Check Valves

Since Combo-Rate nozzle bodies stack, a manual way to turn off flow to certain outlets is required.

When the knob is **OPEN**, it acts as a standard 10 PSI check valve.

When the knob is **CLOSED**, it turns off flow to that nozzle outlet ONLY. It does not effect other stacked nozzle bodies.



Nozzle Body Specifications

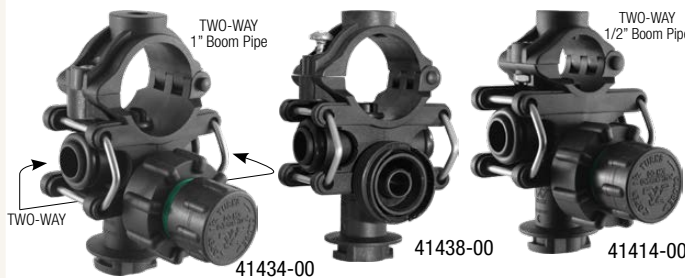
Operating Pressure	10"-100PSI *(80PSI for air-off)
3/8" Inlet Single Outlet Flow Rate	2.1 us gpm @ 5PSI pressure drop 3.1 us gpm @ 10PSI pressure drop
9/16" Inlet Single Outlet Flow Rate	2.2 us gpm @ 5PSI pressure drop 3.5 us gpm @ 10PSI pressure drop
21/32" Inlet High Flow Single Outlet Flow Rate	3.0 us gpm @ 5PSI pressure drop 4.0 us gpm @ 10PSI pressure drop
O-ring Seals	FKM (viton avail.)
Materials	SS (screws) Glass-Reinforced Polypropylene (body)

* 10PSI minimum with 10PSI check valve

Boom Size	Sch40 Pipe Outside Diameter	Inlet Size	Stacking Direction	Nozzle Bodies with 5/16" Bolt Mount Upper Clamp			
				Module Description & Part#			
				Dia. Check Valve	Manual ON/OFF	Air-Off Operated ²	PWM (w/o Nut)**
1/2"	0.84"	3/8" Inlet	One-Way	41411-00	41413-00	41415-00	41417-00
3/4"	1.05"	3/8" Inlet	One-Way	41421-00	41423-00	41425-00	41427-00
28mm	28mm	3/8" Inlet	One-Way	41481-00	41483-00	41485-00	41487-00
1"	1.315"	3/8" Inlet	One-Way	41431-00	41433-00	41435-00	41437-00
		9/16" Inlet	One-Way	41441-00	41443-00	41445-00	41447-00
1" KWIKSTOP	1.315"	3/8" Inlet	One-Way	41451-00	41453-00	41455-00	41457-00

Two-Way Stacking Integrated COMBO-RATE® II Nozzle Bodies

Two-way stacking COMBO-RATE nozzle bodies stack to both directions, with two open u-clip ports. Typically using a manual on/off module, these bodies can be used to spray separately than turrets/bodies or simultaneously from multiple nozzles. Multiple nozzle spraying can be an effective way to improve coverage in high volume applications to make a more meaningful mix of droplets.



High Flow Nozzle Bodies

For very high flow requirements, use the 21/32" inlet size nozzle bodies.



Stacked Outlet Specification

Operating Pressure	10"-100PSI *(80PSI for air-off)
3/8" Inlet Two Outlets Used Flow Rate	3.2 us gpm @ 5PSI pressure drop 5.0 us gpm @ 10PSI pressure drop
9/16" Inlet Two Outlets Used Flow Rate	3.6 us gpm @ 5PSI pressure drop 6.2 us gpm @ 10PSI pressure drop
21/32" Inlet High Flow Two Outlets Used Flow Rate	4.6 us gpm @ 5PSI pressure drop 9.0 us gpm @ 10PSI pressure drop
O-ring Seals	FKM (viton avail.)
Materials	SS (screws) Glass-Reinforced Polypropylene (body)

* 10PSI minimum with 10PSI check valve

Boom Size	Sch40 Pipe Outside Diameter	Inlet Size	Stacking Direction	Nozzle Bodies with 5/16" Bolt Mount Upper Clamp			
				Module Description & Part#			
				Dia. Check Valve	Manual ON/OFF	Air-Off Operated ²	PWM (w/o Nut)**
1/2"	0.84"	3/8" Inlet	Two-Way	41412-00	41414-00	41416-00	41418-00
3/4"	1.05"	3/8" Inlet	Two-Way	41422-00	41424-00	41426-00	41428-00
28mm	28mm	3/8" Inlet	Two-Way	41482-00	41484-00	41486-00	41488-00
1"	1.315"	3/8" Inlet	Two-Way	41432-00	41434-00	41436-00	41438-00
		9/16" Inlet	Two-Way	41442-00	41444-00	41446-00	41448-00
1" High Flow	1.315"	21/32" Inlet	Two-Way	41462-00	41464-00	41466-00	41468-00
1" KWIKSTOP	1.315"	3/8" Inlet	Two-Way	41452-00	41454-00	41456-00	41458-00

Combo-Rate Body, Turret Replacement & Auxiliary Parts

- 40200-02 O-ring, CR Inter-body, #206, FKM
- 20455-07 O-ring, 3/8" Nozzle Body Inlet Stem, #110, FKM
- 40200-02 O-ring, 9/16" Nozzle Body Inlet Stem, #206, FKM
- 41361-02 O-ring, 21/32" Nozzle Body Inlet Stem, #115, FKM
- 20460-04 U-clip, 304SS
- 41331-03 Screw, Hi Lo, SS, CR11 Body Hinge Clamp Screw (for 2016+ newer)
- 41285-00 Adapter, CR Plug (Covers unused Combo-Rate port)
- 41286-00 Plug, Inner CR2 port plug [fits inside side port of CR11 bodies]
- 41502-04 CR Turret Outlet Arm, Combo-Jet Outlet
- 41502-10 CR Turret Outlet Arm, Square Lug Outlet
- 41502-13 CR Turret Outlet Arm, Double-Down Combo-Jet Outlet
- 41502-05 CR Turret Outlet Arm, Plug
- 40155-23 Diaphragm, Molded, FKM (Replaces #40155-07 + 20455-04)
- 41100-15 CR11 Nozzle Body O-ring Repair Kit, FKM (6 Bodies)
- 41100-16 CR11 Nozzle Body O-ring Repair Kit, VITON® (6 Bodies)
- 41502-11 CR Turret Repair Kit, FKM (2 Bodies)
- 41502-12 CR Turret Repair Kit, VITON® (2 Bodies)
- 41593-00 Plug, CR Clamp to plug 21/32" inlet hole on 1" pipe

* Requires #20455-07 O-Ring



41592-00
Bolt-Mount
Clamp for any
1.315" OD.
pipe or tube



41593-00
21/32" Inlet
Plug Clamp



41331-03



41285-00



41286-00
Keeps chemical out of
a CR11 side port hole



41502-05*



40200-02
Inter-body
O-ring



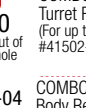
20455-07
Turret Arm
O-ring



41502-04*



41502-10*



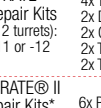
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41502-04*



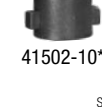
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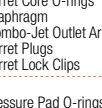
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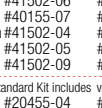
41502-13*



41502-13*



41502-04*



41502-10*

COMBO-RATE®
Turret Repair Kits
(For up to 2 turrets):
#41502-11 or -12

COMBO-RATE® II
Body Repair Kits*
(For up to 6 bodies):
#41100-15 or -16

*Repair kits may include a pair(s) of #40155-07 and #20455-04, or a single #40155-23. Both serve the same purpose. Ensure to remove the pressure pad o-ring if #40155-23 is being used.

Standard Kit includes viton Kit incl.
10x Turret Outlet O-rings #20455-07 #40155-13
4x Turret Core O-rings #41502-06 #41502-V6
2x Diaphragm #40155-07 #40155-12
2x Combo-Jet Outlet Arm #41502-04 #41502-04
2x Turret Plugs #41502-05 #41502-05
2x Turret Lock Clips #41502-09 #41502-09

Standard Kit includes viton Kit incl.
6x Pressure Pad O-rings #20455-04 #20455-V4
6x Inter-body O-rings #40200-02 #40200-V2
6x Diaphragms #40155-07 #40155-12

WET BOOM NOZZLE BODIES & PARTS