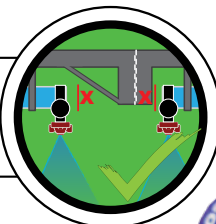


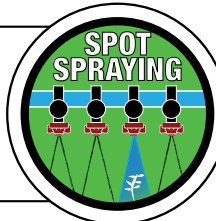
WILGER Dual-Spray 4+1 [DS41] Nozzle Bodies

The DS41 Advantage

Ultra-compact
turret arms &
narrow nozzle body



Designed for
dual solenoid
use for spot
spraying



**BRAND NEW
NOZZLE BODY
DESIGN**



Spring-Lock Turret
Positive Turret
Positioning

Polypropylene and
stainless components
resist acid and harsh
chemicals

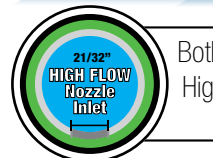


**DOUBLE
STACKED**

Ability to spray with
one or both nozzles
independent of
each-other.

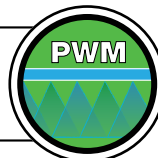


Robust design with
easy maintenance



Both 3/8" & 21/32"
High flow inlet sizes
are available

PWM-controlled
solenoid on either or
both nozzle position.



Dual Spray 4+1 [DS41] Nozzle Bodies

The DS41 nozzle body is the next generation of compact nozzle body. Many significant design changes have been made to improve turret position, durability and strength, and reliability in some of the most challenging environments in spraying.

Boom Pipe/Tube Size	Nozzle Outlet Configuration	Inlet Hole Size	Turret Control Module Position ¹	DS41 Nozzle Bodies with 5/16" Bolt Mount Upper Clamp		
				Module Configuration & Assembly Part#		
				-00 MSO on BOTH Bypass & Turret	-MS1 MSO on Bypass No Module on Turret	-NM No modules on Bypass & Turret
1" (1.315" OD)	4 CJ (Turret) + 1 CJ (Bypass)	3/8" Inlet	LEFT	41902-00	41902-MS1	41902-NM
			RIGHT	41903-00	41903-MS1	41903-NM
		High Flow 21/32" Inlet	LEFT	41900-00	41900-MS1	41900-NM
			RIGHT	41901-00	41901-MS1	41901-NM
	4 SqLug (Turret) + 1 CJ (Bypass)	3/8" Inlet	LEFT	41912-00	41912-MS1	41912-NM
			RIGHT	41913-00	41913-MS1	41913-NM
		High Flow 21/32" Inlet	LEFT	41910-00	41910-MS1	41910-NM
			RIGHT	41911-00	41911-MS1	41911-NM

¹DS41 LEFT & RIGHT bodies are dictated by position of turret module relative to the front faceplate. For ease of ordering, recommended to order 50% LEFT & RIGHT for sprayer retrofits. Bypass* module is always opposite the turret's module.

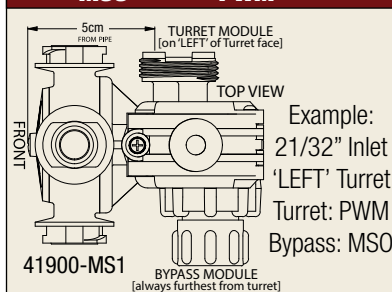


41910-MS1
21/32" Inlet
'LEFT' Turret 'MS1'
4 Square Lug Turret
+ 1 COMBO-JET bypass



Use the DS41 with new QF100 elbows for even more compact configurations

Ordering DS41 as -MS1 with MSO (bypass) + PWM (turret)



NEW 30/50 Adapter for angled spraying with the DS41



¹When using the 50° nozzle angle forward, removal of the adapter will be required due to the compact nature of the DS41.

COMBO-JET® Nozzle Bodies

The COMBO-JET® Advantage



Hinged Clamp for easy installation

Compact body sits directly under the boom. Perfect for tight boom frames & heavy PWM solenoids

Nozzle Bodies can swap right/left orientation to avoid sprayer boom frame

KWIKSTOP™ raised inlet option available to reduce nozzle run-on

Debris-cleaning 3/8" inlet slots for less residue buildup

Bodies can be equipped with any combination of control modules, including AIR-OFF, PWM solenoid, Manual ON/OFF or spring-based diaphragm check valves

Nozzle Bodies available in Combo-Jet or Square Lug styles (Teejet/Hypro/etc) with 1, 2 or 3 nozzle outlets

Single Outlet COMBO-JET® Nozzle Bodies

Robust and cost effective nozzle bodies for sprayers and used on wet boom liquid fertilizer kits.

Boom Pipe	Inlet Size	Outlets	Style	Part#
3/4" (1.05" OD)	3/8"	1 CJ	Check Valve	40611-00
			Check Valve	40621-00
			Manual On/Off	40621-MS
			No Module	40621-NM
1" (1.315" OD)	3/8"	1 CJ	No Module	40626-NM
	21/32"	1 CJ	No Module	40626-NM



40621-00
Single

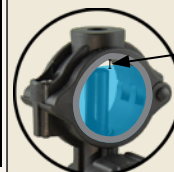


40611-P15
Single Outlet
w/ 1.0bar check valve
(red) and hose barb cap

Commonly used in liquid fertilizer metering manifolds mounted on plumbed pipe

KWIKSTOP™ stops Run-on

KWIKSTOP™ passively purges air trapped in the sprayer boom.



Nozzles are fed from the top of the pipe

Less air means Less Nozzle Run-on & Drips

KWIKSTOP™ is a trademark, owned by BRANDT INDUSTRIES LTD.

Dual Outlet COMBO-JET® Swivel Bodies

Robust and cost effective nozzle bodies for sprayers to switch up to two nozzles by simply rotating the outlet. Safer and easier than handling contaminated nozzles.

Boom Pipe	Inlet Size	Outlets	Style	Part#
3/4" (1.05" OD)	3/8"	2 CJ	Check Valve	40612-00
			Check Valve	40622-00
			Manual On/Off	40622-MS
			No Module	40622-NM
1" (1.315" OD)	3/8"	2 CJ	No Module	40627-NM
	21/32"	2 CJ	No Module	40627-NM



40622-00
Dual Swivel
Combo-Jet



40622-NM
Dual Swivel
w/o Check Valve

Commonly used to cost effectively retrofit a sprayer to a PWM spray system

High/Low PSI Check Valves

Replace part # ending '-00' to order 0.27bar or 1bar check valves



0.27 bar 'P4' [BLUE] 0.7 bar '-00' [Standard] 1 bar '-P15' [RED]

Triple Outlet COMBO-JET® Swivel Bodies

Robust and cost effective nozzle bodies for sprayers to switch up to three nozzles by simply rotating the outlet. Safer and easier than handling contaminated nozzles.

Boom Pipe	Inlet Size	Outlets	Style	Part#
3/4" (1.05" OD)	3/8"	3 CJ	Check Valve	40613-00
			Check Valve	40623-00
			Manual On/Off	40623-MS
			No Module	40623-NM
1" (1.315" OD)	3/8"	3 CJ	No Module	40628-NM
	21/32"	3 CJ	No Module	40628-NM



40623-00
Triple Swivel
Combo-Jet



40628-NM
High Flow
21/32" Inlet
Triple Swivel
w/o Check Valve

Commonly used to cost effectively retrofit a sprayer to a PWM spray system

1" KWIKSTOP™ Nozzle Bodies

Nozzle bodies with raised inlets to passively purge air trapped at the top of a sprayer boom pipe, reducing nozzle run-on & improving boom shut-off response times.

Boom Pipe	Outlets	Style	Part#
1" (1.315" OD)	1 CJ	Check Valve	40631-00
	2 CJ	Check Valve	40632-00
	3 CJ	Check Valve	40633-00



40631-00
Single w/ KWIKSTOP
Raised Inlet

Smooth Clamp Bodies

Swivel bodies have been switched to a standard bolt-mount hinge clamp.



Old-style smooth clamp

Contact Wilger for a cross-reference chart for the smooth clamp part numbers and their bolt-mount replacement.

Nozzle Body Specifications

Operating Pressure	0.7"-7 bar
Single Outlet Flow Rate	8 L/min @0.34bar pressure drop 11.7 L/min @0.68bar pressure drop
Dual Swivel Flow Rate	6.4 L/min @0.34bar pressure drop 10.2 L/min @0.68bar pressure drop
Triple Swivel Flow Rate	6 L/min @0.34bar pressure drop 9.8 L/min @0.68bar pressure drop
O-ring Seals	FKM (viton avail.)
Materials	SS (screws) Polypropylene (body) Celcon (lower swivel)

Square Lug Swivel Nozzle Bodies & Accessories

Single Outlet Square Lug Nozzle Bodies

Robust and cost effective nozzle bodies for sprayers and used on wet boom liquid fertilizer kits.

Boom Pipe	Outlets	Style	Part#
3/4" (1.05" OD)	1 Square Lug	Check Valve	40651-00
		No Check	40140-00
1" (1.315" OD)	1 Square Lug	Check Valve	40661-00
		Manual On/Off	40661-MS
		No Module	40661-NM
		No Check	40141-00



40661-00
Single



40141-00
No Check Valve
Sq. Lug

Commonly used in liquid fertilizer metering manifolds mounted on plumbed pipe

Dual Outlet Square Lug Nozzle Bodies

Robust and cost effective nozzle bodies for sprayers to switch up to two nozzles by simply rotating the outlet. Safer and easier than handling contaminated nozzles.

Boom Pipe	Outlets	Style	Part#
3/4" (1.05" OD)	2 Square Lug	Check Valve	40652-00
1" (1.315" OD)	2 Square Lug	Check Valve	40662-00
		Manual On/Off	40662-MS
		No Module	40662-NM



40662-00
Dual Swivel
Sq. Lug



40662-NM
Dual Swivel
Sq. Lug

Commonly used to cost effectively retrofit a sprayer to a PWM spray system

Triple Outlet Square Lug Nozzle Bodies

Robust and cost effective nozzle bodies for sprayers to switch up to three nozzles by simply rotating the outlet. Safer and easier than handling contaminated nozzles.

Boom Pipe	Outlets	Style	Part#
3/4" (1.05" OD)	3 Square Lug	Check Valve	40653-00
1" (1.315" OD)	3 Square Lug	Check Valve	40663-00
		Manual On/Off	40663-MS
		No Module	40663-NM



40663-00
Triple Swivel
Combo-Jet



40663-NM
Triple Swivel
w/o Check Valve

Commonly used to cost effectively retrofit a sprayer to a PWM spray system

1" KWIKSTOP™ Square Lug Nozzle Bodies

Nozzle bodies with raised inlets to passively purge air trapped at the top of a sprayer boom pipe, reducing nozzle run-on & improving boom shut-off response times.

Boom Pipe	Outlets	Style	Part#
1" (1.315" OD)	1 Square Lug	KWIKSTOP	40671-00
	2 Square Lug	KWIKSTOP	40672-00
	3 Square Lug	KWIKSTOP	40673-00



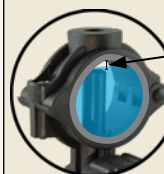
40671-00
Single w/ KWIKSTOP
Raised Inlet



40672-00
Dual Swivel
w/ KWIKSTOP
Raised Inlet

KWIKSTOP™ stops Run-on

KWIKSTOP™ passively purges air trapped in the sprayer boom.



Nozzles are fed from the top of the pipe

Less air means Less Nozzle Run-on & Drips

KWIKSTOP™ is a trademark, owned by BRANDT INDUSTRIES LTD.

High/Low PSI Check Valves

Replace part # ending '-00' to order 0.27bar or 1bar check valves



0.27 bar
-P4'
[BLUE]

0.7 bar
-P0'
[Standard]

1 bar
-P15'
[RED]

Nozzle Body Specifications

Operating Pressure	0.7"-7 bar
Single Outlet Flow Rate	8 L/min @0.34bar pressure drop 11.7 L/min @0.68bar pressure drop
Dual Swivel Flow Rate	6.4 L/min @0.34bar pressure drop 10.2 L/min @0.68bar pressure drop
Triple Swivel Flow Rate	6 L/min @0.34bar pressure drop 9.8 L/min @0.68bar pressure drop
O-ring Seals	FKM (viton avail.)
Materials	SS (screws) Polypropylene (body) Celcon (lower swivel)

Swivel Body Replacement Parts - For ALL TYPES Swivel Bodies

- 40166-04 O-ring Repair Kit, CJ Nozzle Bodies, FKM (6 Bodies)
- 40166-05 O-ring Repair Kit, CJ Nozzle Bodies, VITON® (6 Bodies)
- 40193-02 SCREW, Hi-Lo, #10 x 3/4" SS [for Hinged Swivel Bodies]
- 40155-23 Molded Diaphragm, FKM (replaces 40155-07 + 20455-04)
- 20455-07 O-ring, 3/8" inlet seal, #110, FKM, Duro 70
- 20455-04 O-ring, Pressure Pad, Replacement (pairs with 40155-07)
- 40155-07 Diaphragm Rubber Seal, EPDM (use w/ #20455-04)
- 40155-12 Diaphragm Rubber Seal, VITON® (use w/ #20455-04)

3/8" Nozzle body inlet o-ring



20455-07



40193-02

CJ Nozzle Body Repair Kits* (up to 6 bodies)

- BUNA-N Kit incl. viton Kit incl.
- 6x Pressure Pad O-rings #20455-04 #20455-V4
- 24x Inner-body O-rings #40155-09 #40155-13
- 6x Diaphragms #40155-07 #40155-12

*Kits will include either a pair of #20455-04 & #40155-07, or #40155-23. Both serve the same function.

NEW



40155-23

Requires pressure pad o-ring to be removed



20455-04

*Also requires 20455-04 pressure pad o-ring



40155-07*

! PRODUCT UPGRADE: Diaphragms

A molded, single-piece diaphragm is replacing the two-piece diaphragm rubber + pressure pad o-ring.



Module Nut #41100-02



Module #41100-03

Pressure Pad O-ring #20455-04

Diaphragm #40155-07

! For replacing old-style parts, ENSURE pressure pad o-ring is removed from check valve module, and the new diaphragm groove fits where the pressure-pad o-ring was.

Replaced by Single-Piece Molded Diaphragm

#40155-23



[Bottom View]

*May be black, red or brown (viton)

COMBO-RATE® Stacking Nozzle Bodies

The COMBO-RATE® Advantage

Debris-cleaning inlet slots for less residue buildup

Hinged Clamp for easy install

Two-Way Nozzle Bodies can reverse left/right for universal mounting

U-clip fittings can be easily retrofitted to use any future COMBO-RATE products

High flow bodies with low pressure-drop

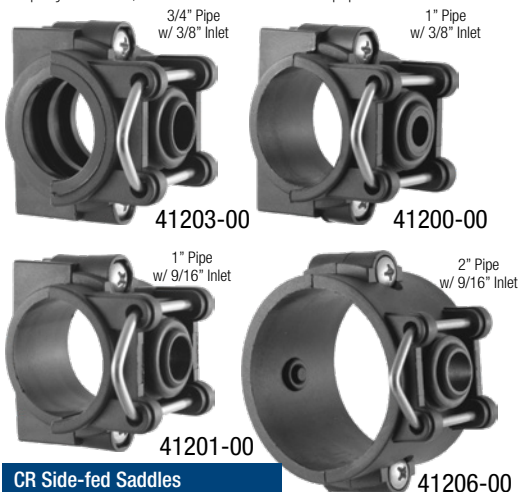
Bodies can be equipped with any combination of control modules, including AIR-OFF, PWM solenoid, Manual ON/OFF or spring-based diaphragm check valves

Ability to spray with multiple nozzles simultaneously OR reserve 'integrated nozzle body' for fertilizer top-dressing

KWIKSTOP™
Raised Inlet
Available

COMBO-RATE® Side-fed Saddles

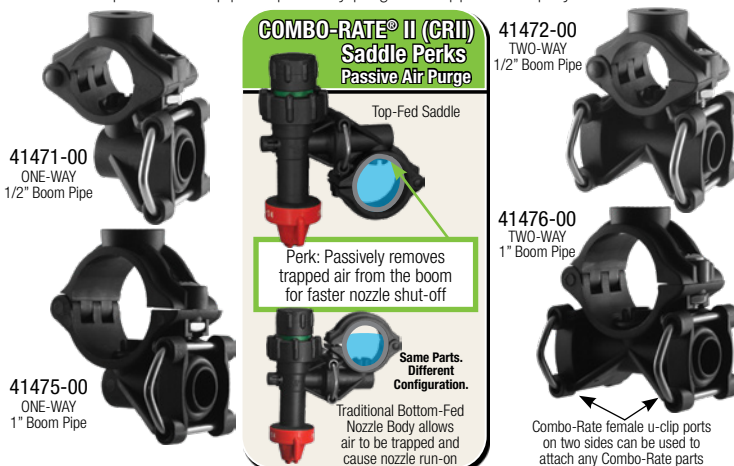
Robust side-fed saddles mount with a inlet hole on the side of a sprayer boom, with a female combo-clip port for CR bodies



CR Side-fed Saddles		
Boom Size	Inlet Size	Part#
3/4" Pipe (1.05" OD)	3/8" inlet	41203-00
1" Pipe (1.315" OD)	3/8" inlet	41200-00
1" Pipe (1.315" OD)	9/16" inlet	41201-00
2" Pipe (2.375" OD)	9/16" inlet	41206-00

COMBO-RATE® II Top or Bottom-fed Saddles

Combo-Rate II saddles can be fed with an bottom inlet or flipped and fed from a hole in the top of a boom pipe to passively purge air trapped in a sprayer boom.



CRII One-Way Stacking Saddles		
Boom Size	Inlet Size	Part#
1/2" Pipe (0.84" OD)	3/8" inlet	41471-00
1" Pipe (1.315" OD)	3/8" inlet	41475-00
1" Pipe (1.315" OD)	9/16" inlet	41477-00
1" Pipe (1.315" OD)	21/32" inlet	41479-00

CRII Two-Way Stacking Saddles		
Boom Size	Inlet Size	Part#
1/2" Pipe (0.84" OD)	3/8" inlet	41472-00
1" Pipe (1.315" OD)	3/8" inlet	41476-00
1" Pipe (1.315" OD)	9/16" inlet	41478-00

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.



KWIKSTOP®
Raised Inlet
Available



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 0.7 bar 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	0.7"-7bar ≈(5.5 bar for air-off)
3/8" Inlet Single Outlet Flow Rate	8 L/min @0.34bar pressure drop 11.7 L/min @0.68bar pressure drop
9/16" Inlet Single Outlet Flow Rate	8.3 L/min @0.34bar pressure drop 13.25 L/min @0.68bar pressure drop
21/32" Inlet High Flow Single Outlet Flow Rate	11.35L/min @0.34bar pressure drop 15L/min @0.68bar pressure drop
O-ring Seals	FKM (viton avail.)
Materials	SS (screws) Glass-Reinforced Polypropylene (body)

* 0.7bar minimum with 0.7bar check valve

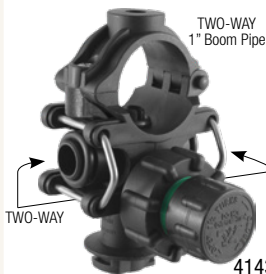
Boom Size	Sch40 Pipe Outside Diameter	Inlet Size	Stacking Direction	Nozzle Bodies with 5/16" Bolt Mount Upper Clamp			
				Module Description & Part#			
				Dia. Check Valve	Manual ON/OFF	Air-Off Operated ²	PWM (w/o Nut)**
1/2"	0.84"	3/8" Inlet	One-Way	41411-00	41413-00	41415-00	41417-00
3/4"	1.05"	3/8" 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.



KWIKSTOP®
Raised Inlet
Available



High Flow Nozzle Bodies

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



Stacked Outlet Specification

Operating Pressure	0.7"-7bar ≈(5.5 bar for air-off)
3/8" Inlet Two Outlets Used Flow Rate	12 L/min @0.34bar pressure drop 19 L/min @0.68bar pressure drop
9/16" Inlet Two Outlets Used Flow Rate	13.6 L/min @0.34bar pressure drop 23 L/min @0.68bar pressure drop
21/32" Inlet High Flow Two Outlets Used Flow Rate	17 L/min @0.34bar pressure drop 34 L/min @0.68bar pressure drop
O-ring Seals	FKM (viton avail.)
Materials	SS (screws) Glass-Reinforced Polypropylene (body)

* 0.7bar minimum with 0.7bar 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, CRIL 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 CRIL 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 CRIL Nozzle Body O-ring Repair Kit, FKM (6 Bodies)
- 41100-16 CRIL 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



41331-03



20460-04



40155-23
Molded Diaphragm
+ pad o-ring



41285-00



40200-02
Inter-body
O-ring



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



40155-07
Diaphragm



41502-05*



20455-07
Turret Arm O-ring



41502-04*



41502-10*



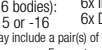
41502-13*



41502-04*



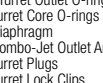
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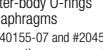
41502-13*



41502-04*



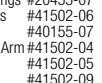
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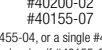
41502-13*



41502-04*



41502-10*



41502-13*



41502-13*

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

COMBO-RATE® II Body Repair Kits* (For up to 6 bodies): #41100-15 or -16
COMBO-RATE® II Turret Repair Kits* (For up to 2 turrets): #41502-11 or -12
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.

COMBO-RATE® Stacking Thru & End Bodies

COMBO-RATE® Thru Bodies

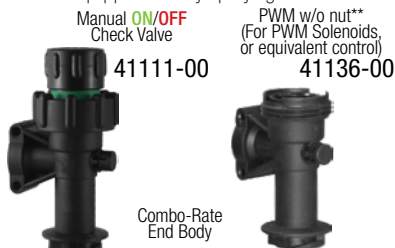
Thru bodies stack onto any existing combo-clip female port and adds an additional combo-clip female port for further expansion.



COMBO-RATE Thru Body [Connects to any Combo-Rate female ports]			
Dia. Check Valve	Manual ON/OFF	Air-Off Operated ²	PWM (w/o nut)**
41100-00	41110-00	41125-00	41135-00

COMBO-RATE® End Bodies

End bodies stack onto any existing combo-clip female port to add a nozzle body that can be equipped for any spraying needs.



COMBO-RATE End Body [Connects to any Combo-Rate female ports]			
Dia. Check Valve	Manual ON/OFF	Air-Off Operated ²	PWM (w/o nut)**
41101-00	41111-00	41126-00	41136-00

CR Swivel End Bodies

End bodies that can be fixed in 15° increments for fence-row & crop adapted spraying applications. Attaches to any combo-clip female port.



COMBO-RATE End Body [Connects to any Combo-Rate female ports]			
Dia. Check Valve	Manual ON/OFF	Air-Off Operated ²	PWM (w/o nut)**
41102-00	41112-00	41127-00	41137-00

Combo-Rate Stacking Body Specification

Operating Pressure
0.7*-7bar
²(5.5 bar for air-off)

O-ring Seals
FKM (viton avail.)

Materials
Glass-reinforced Polypropylene

Flow Rate
8L/min (end & thru), 6L/min (swivel body)

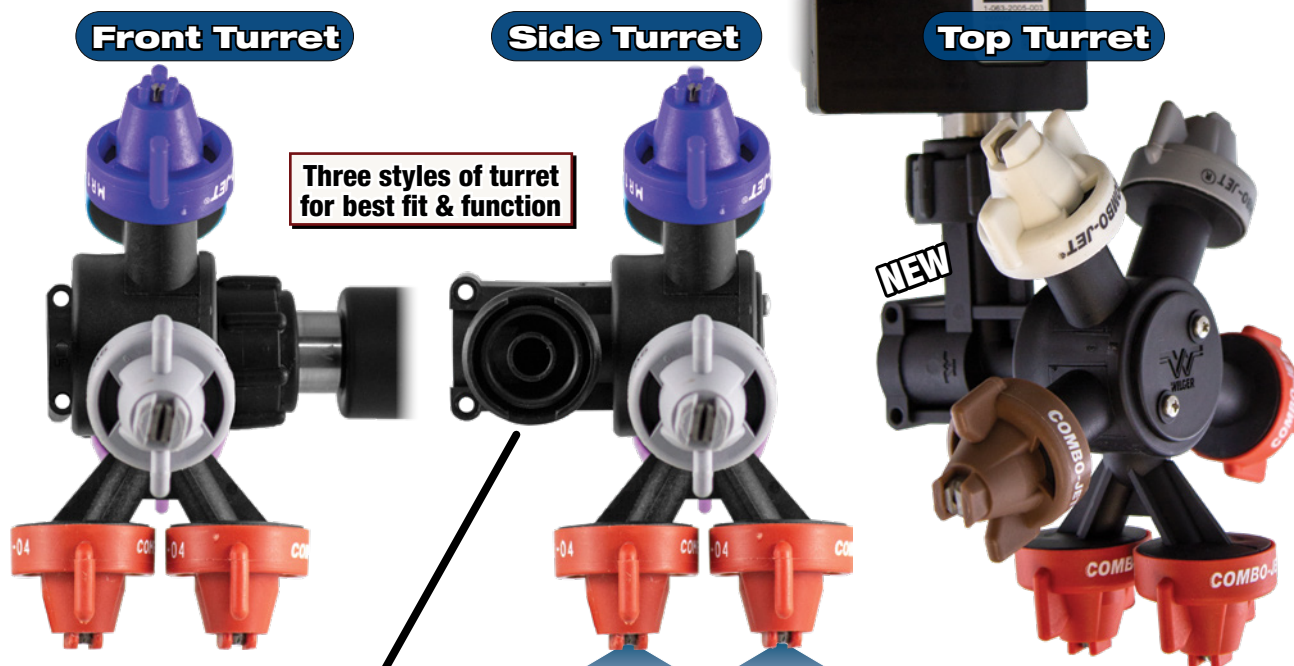
COMBO-RATE® Turrets

The COMBO-RATE® Turret Advantage

Common U-clip connections for all Combo-Rate parts

Each turret arm is o-ring sealed to minimize dust & debris entry

Module threads are compatible with most PWM spray systems



Three styles of turret for best fit & function

Bodies can be equipped with any combination of control modules, including AIR-OFF, PWM solenoid, Manual ON/OFF or spring-based diaphragm check valves

Multiple options for Single CJ, Square Lug, or Double-Down outlets

Double-Down Turrets allow for dual nozzle spraying for better overage in high volume & fungicide applications

COMBO-RATE turrets provide you options to configure a desired turret configuration, allowing it to be a universal turret for any brand of sprayer or nozzles.

COMBO-RATE® Stacking Component Examples

COMBO-RATE® Side-Fed Saddles



Side-Fed saddle with a thru and end body

COMBO-RATE® II (CRII) Top/Bottom-Fed Saddles



PERK Passively removes air from the boom

Same parts, but different configuration to solve sprayer issues.

COMBO-RATE® II Bottom-Fed Nozzle Body



CRII integral body with end body and turret

COMBO-RATE® Stacking Components



Thru Bodies End Bodies Swivel End Bodies For Fence-row nozzles

PERK Can be fixed in 15° increments

NEW

COMBO-RATE® Turrets - cont'd

Sprayers have different nozzle requirements, due to spacing, boom frame design & interference, so Wilger has three styles of turrets that can be used to fit any situation.

COMBO-RATE Front Turrets

Front turrets stack onto any COMBO-RATE nozzle body, mounting on the common u-clip port. Turrets are available in a variety of outlet and module styles, which are mounted onto the 'front' face of the turret.

Number of Outlets	Description & Part #			
	Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o nut)*
3 CJ Outlet	41503-00	41513-00	41543-00	41533-00
4 CJ Outlet	41504-00	41514-00	41544-00	41534-00
5 CJ Outlet	41505-00	41515-00	41545-00	41535-00
3 CJ Outlet + 2 SQ Lug Outlet	41505-32*	41515-32*	41545-32*	41535-32*
Double-Down + 4 CJ Outlet	41506-00	41516-00	41546-00	41536-00



HOW THEY WORK: Manual ON/OFF 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 0.7bar check valve.

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

Module Installation & Re-installation

During installation, ensure knob is in **OPEN** orientation. Otherwise the binding nut cannot seal the check valve module. Ensure the orientation tabs (green) are seated properly.

COMBO-RATE Side Turrets - Reversible

Side turrets stack onto any COMBO-RATE nozzle body, mounting on the common u-clip port. Turrets are available in a variety of outlet and module styles, which are mounted onto the side of the turret with a reversible module stem.

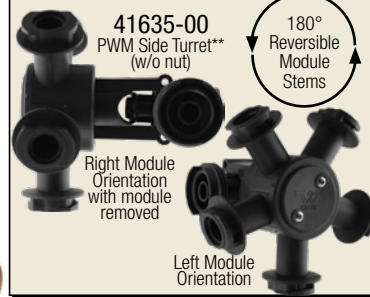
Number of Outlets	Description & Part #			
	Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o nut)*
3 CJ Outlet	41603-00	41613-00	41643-00	41633-00
4 CJ Outlet	41604-00	41614-00	41644-00	41634-00
5 CJ Outlet	41605-00	41615-00	41645-00	41635-00
3 CJ Outlet + 2 SQ Lug Outlet	41605-32	41615-32	41645-32	41635-32
Double-Down + 3 CJ Outlet	41606-00	41616-00	41646-00	41636-00

41602-07 Side-Turret Core Replacement kit for Teejet Threaded PWM Solenoid
41602-09 Side-Turret Core Replacement kit for Arag/Hydro Threaded PWM Solenoid



Reversing Orientation

Switch a side turret module stem from left to right in seconds. No extra parts required.



NEW COMBO-RATE Top Turrets

Top turrets stack onto any COMBO-RATE nozzle body, mounting on the common u-clip port. Turrets are available in a variety of outlet and module styles, which are mounted onto the top of the turret. Ideal for use with bulky PWM solenoids in tight booms.

Number of Outlets	Description & Part #			
	Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o nut)*
3 CJ Outlet	41803-00	41813-00	41843-00	41833-00
4 CJ Outlet	41804-00	41814-00	41844-00	41834-00
5 CJ Outlet	41805-00	41815-00	41845-00	41835-00
3 CJ Outlet + 2 SQ Lug Outlet	41805-32	41815-32	41845-32	41835-32
Double-Down + 4 CJ Outlet	41806-00	41816-00	41846-00	41836-00



Module points upwards to keep large solenoids (e.g. Hawkeye II) out of the way of other boom parts.

Open module thread must have PWM solenoid or other control module to function

PWM READY

41836-00 No module nut (for PWM Solenoid) with double-down outlet

NEW Double-Down Turrets

Double nozzles from a single turret outlet. Great for double-down PWM spraying.

