



2020-21 Manufacturer's Suggested Retail Price List



All prices in Canadian currency.
Effective October 1, 2020.
Prices charged by dealer or retailer may vary from manufacturer's suggested retail prices.

COMBO-JET® DRIFT REDUCTION SPRAY TIPS & ACCESSORIES



**FINER
SPRAY**

5 Series of Spray Tips for a Sliding Scale of Droplet Size
The preferred spray tips for PWM spray systems

**BEST DRIFT
REDUCTION**



Combo-Jet
Caps &
Adapters



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**TIP WIZARD
Make Better Spray
Nozzle Selection!**

Download &
Use it from: www.WILGER.NET



COMBO-JET® & COMBO-RATE® NOZZLE BODIES & ACCESSORIES

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**COMBO-JET
Swivel Bodies**



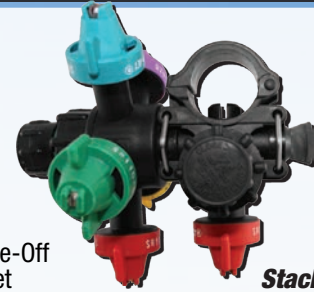
NEW
Top Take-Off
Turret



NEW
Double-Down
Turret



Side Take-Off
Turret



**COMBO-RATE
Stacked Nozzle Bodies**

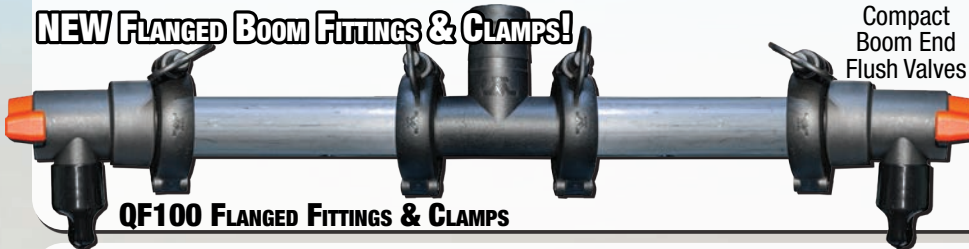


NEW
Swivel
Fence-row
Body

QUICK-FLANGE (QF100) & QUICK-NUT (QN100) STAINLESS STEEL BOOM TUBE & FITTINGS

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NEW FLANGED BOOM FITTINGS & CLAMPS!



QF100 FLANGED FITTINGS & CLAMPS

Compact
Boom End
Flush Valves

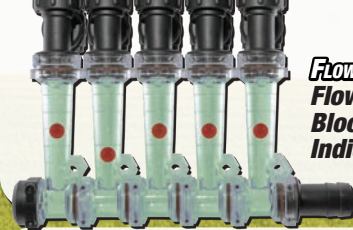
Quick Nut Stainless Steel Tubing &
Boom End Flush Valves



QN100 FITTINGS

WILGER VISUAL BALL FLOW INDICATORS & O-RING SEAL (ORS) FITTINGS & ACCESSORIES

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**Flow View
Flow &
Blockage
Indicator**



**ORS Color-Coded
Metering Orifices**



NEW
ORS Check Valves, Outlets & Strainers



NEW
ORS Inline
Strainer

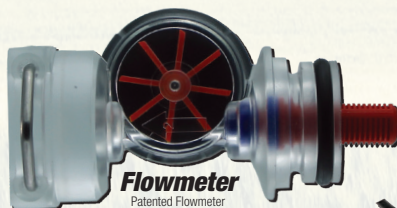
ORS Stackable Manifolds



WILGER ELECTRONIC FLOW MONITORING (EFM) SYSTEM & ROW-BY-ROW FLOWMETER

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Monitor up to 3 liquid products simultaneously



**Flowmeter
Patented Flowmeter**



**ECU
& Electronics**



WORLD CLASS SPRAYING COMPONENTS

The Combo-Jet® Spray Tip Advantage

Less plugging, as the path of flow always gets larger

40% longer strainer that snaps & seals into place

**SR / MR / DR / UR
50% 75% 90% 90%+
Drift Reduction Series**

Cap color always matches flow rate

Super long-lasting stainless steel spray tip

The most versatile spray tips for Pulse Width Modulation Systems
(e.g. Capstan Pinpoint®/EVO®, Case AIMCommand®, John Deere ExactApply®, IntelliSpray®, Raven Hawkeye®, & more)

Spray tip & cap are held together as one piece

Easy-to-read label
(MR110-06 = MR Series, 110° tip, 0.6 US GPM flow rate)

Best educational spray tip charts to select the best spray tips

Combo-Jet tips use a modern pre-orifice & closed chamber design that produces significantly less drift, creating solid mass droplets, for maximum spray velocity and more meaningful spray.

*Without needing consistent air induction for drift reduction,
Combo-Jet spray tips are the preferred tip for Pulse Width Modulation (PWM) spraying systems.*

Easy & thorough spray tip cleaning

SR, MR, DR & UR Series

To clean stainless tip
Pull strainer (with pre-orifice) up and out

To clean plastic pre-orifice
Push strainer sideways to release from pre-orifice

ER Series
Push strainer sideways to remove

To use/replace strainer
Push strainer down to snap in strainer

WILGER.NET has some of the most useful spray tip selection tools in the world. Check them out!

FREE



WILGER

TIP WIZARD

FREE SMARTPHONE APP

www.wilger.net




TIP WIZARD ONLINE

**No Internet?
No Problem.**

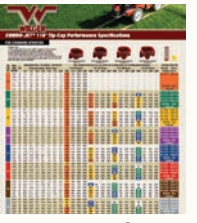


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www.WILGER.NET

Credit Card Style USB Stick



EXCEL-BASED CHARTS




PRINTED TIP CHARTS

COMBO-JET® ER, SR, MR, DR, & UR Spray Tips - What is the difference?


The sliding scale of droplet size means at any flow rate, you have multiple options to match your desired spray.

FINER SPRAY **BEST DRIFT REDUCTION**


5 Series of Spray Tips for a Sliding Scale of Droplet Size




ER110-06




SR110-06



MR110-06



DR110-06



UR110-06
U.S. Patent No. 10,603,681

Comparison Criteria	ER Series Extended Range	SR Series Small Reduction	MR Series Mid-Range Reduction	DR Series Drift Reduction	UR Series Drift Reduction
Spray Tip Design	Conventional Flat Fan	Pre-orifice Drift Reduction	Pre-orifice Drift Reduction	Pre-orifice Drift Reduction	Dual Chamber Drift Red.
Spray Quality @40PSI	Medium	Coarse	Extremely Coarse	Extremely Coarse	Ultra-Coarse
Droplet Size ¹ @40PSI	Smallest (246µ VMD ¹)	Medium (371µ VMD ¹)	Large (474µ VMD ¹)	Very Large (529µ VMD ¹)	Ultra Coarse
% <141µ ² % <600µ ³	20% of volume < 141µ 94% of volume <600µ	8% of volume < 141µ 89% of volume <600µ	4% of volume < 141µ 74% of volume <600µ	2% of volume < 141µ 64% of volume <600µ	UR spray tips are specialty spray tips, designed for certain chemical applications that require exceptional drift reduction. They are not to be replaced with other spray tip series that are not approved to be on the chemical label. Always follow up-to-date label information.
Drift Potential	Most likely to drift	Lower drift potential	Major reduction in drift	Very low drift potential	Refer to chemical application label for maximum pressures, speeds and application information.
Coverage	Best	Excellent	Very good	Good	More information available at www.wilger.net

¹Based on an XX110-06 nozzle @ 40 psi (2.75 BAR)
²Droplets smaller than 141µ are more likely to drift. 141µ is used as a standard for estimating driftable fines.
³Droplets smaller than 600µ provide better coverage. Droplets > 600µ consume more spray volume, reducing overall coverage.

For complete Terms and Conditions, visit www.wilger.net.

Wilger products are sold exclusively to original equipment manufacturers and authorized distributors, and are available to the end user through their retail dealerships. Prices shown are manufacturer suggested retail prices. Dealer selling prices may vary.

Warranties - Wilger warrants that its products are free of defects in material and workmanship and perform to each product's specifications. The foregoing warranties are in lieu of all other warranties, written or expressed, including, but not limited to, those concerning suitability for a particular purpose. Claims under these warranties must be made promptly within one (1) year after receipt of goods by the buyer. Any warranty action by the buyer must be expressly pre-authorized by Wilger.

Limitation of Liabilities - Except for claims for bodily injury, Wilger's liability for any and all claims arising out of the purchase of the product shall not exceed the billed or billable value of the product. In no case will Wilger be liable for any consequential damages or loss of profit, even if Wilger has been advised of the possibility of such damages.

Technical Assistance - Wilger personnel are available to provide technical assistance in the choice and use of products furnished to the buyer and will do so free of charge. Wilger assumes no obligation or liability for any such advice, or any consequences occurring as a result of the application of such advice. The buyer is solely responsible for the selection of the appropriate product(s) and the appropriate application to the intended end use.

Combo-Jet® 110° Spray Tip Charts For PWM Sprayers

! The following charts are based on spraying water in controlled settings, and cannot be replicated in field application. For educational use only to compare different series of spray tips of the same size. Standard PWM valve specifications are used to illustrate pressure drop. Check with your PWM manufacturer to verify pressure drop specifications, and match chart with appropriate tip pressures.

Size	Flow Rate USGPM	Boom PSI	Tip PSI	Speed Range (Rounded)							Spray Classification; VMD (Droplet Size in μ); %<141 μ (Driftable Fines); %<600 μ (Small Droplets)														Spray Tip & Part No.					
				@ US Gal/Acre; 20" Spacing							ER110 Series			SR110 Series			MR110 Series			DR110 Series			UR110 Series				Spray Tip	Part #		
				5 GPA	7.5 GPA	10 GPA	12.5 GPA	15 GPA	Class	VMD	<141	<600	Class	VMD	<141	<600	Class	VMD	<141	<600	Class	VMD	<141	<600	Class	VMD			<141	<600
015	0.13	30	30	2-8	1-5	1-4	1-3	1-3	F	145	47%	100%	F	216	24%	98%	C	323	11%	94%	C	368	7%	92%	UR series is not yet commercially available in the 110-015 size.				ER110-015	40281-015
	0.14	35	35	2-8	1-6	1-4	1-3	1-3	F	142	49%	99%	F	207	26%	98%	C	298	14%	96%	C	346	8%	93%	UR series is not yet commercially available in the 110-015 size.				SR110-015	40287-015
	0.15	40	40	2-9	1-6	1-4	1-3	1-3	F	139	51%	100%	F	200	28%	98%	C	279	16%	97%	C	329	10%	94%	UR series is not yet commercially available in the 110-015 size.				MR110-015	40291-015
	0.17	50	50	2-10	2-7	1-5	1-4	1-3	F	135	55%	100%	F	188	32%	98%	M	248	20%	98%	C	302	12%	95%	UR series is not yet commercially available in the 110-015 size.				DR110-015	40286-015
02	0.17	30	29	3-10	2-7	1-5	1-4	1-3	F	160	39%	100%	M	220	22%	99%	C	317	11%	95%	VC	433	5%	82%	UR series is not yet commercially available in the 110-02 size.				ER110-02	40281-02
	0.19	35	34	3-11	2-7	1-6	1-4	1-4	F	155	42%	100%	F	213	24%	99%	C	297	13%	96%	VC	412	6%	85%	UR series is not yet commercially available in the 110-02 size.				SR110-02	40287-02
	0.20	40	39	3-12	2-8	1-6	1-5	1-4	F	151	45%	100%	F	207	26%	99%	C	281	15%	97%	VC	394	6%	87%	UR series is not yet commercially available in the 110-02 size.				MR110-02	40291-02
	0.22	50	49	3-13	2-9	2-7	1-5	1-4	F	144	49%	100%	F	197	28%	99%	M	256	18%	97%	C	364	8%	90%	UR series is not yet commercially available in the 110-02 size.				DR110-02	40286-02
025	0.21	30	29	3-13	2-8	2-6	1-5	1-4	F	187	29%	100%	M	237	19%	98%	C	353	8%	90%	VC	437	5%	79%	NEW UR110-025 More information to come in 2020. Visit website for most up-to-date charts.				ER110-025	40281-025
	0.23	35	34	3-14	2-9	2-7	1-5	1-5	F	184	29%	100%	M	230	21%	98%	C	337	10%	92%	VC	418	6%	83%	NEW UR110-025 More information to come in 2020. Visit website for most up-to-date charts.				SR110-025	40287-025
	0.25	40	39	4-15	2-10	2-7	1-6	1-5	F	181	30%	100%	M	223	22%	98%	C	322	11%	93%	VC	401	6%	86%	NEW UR110-025 More information to come in 2020. Visit website for most up-to-date charts.				MR110-025	40291-025
	0.28	50	49	4-16	3-11	2-8	2-7	1-5	F	177	30%	100%	M	213	25%	98%	C	299	13%	95%	C	373	8%	89%	NEW UR110-025 More information to come in 2020. Visit website for most up-to-date charts.				DR110-025	40286-025
03	0.30	60	58	4-18	3-12	2-9	2-7	1-6	F	173	31%	100%	F	204	27%	98%	C	280	15%	96%	C	350	9%	91%	NEW UR110-03 More information to come in 2020. Visit website for most up-to-date charts.				ER110-03	40281-03
	0.26	30	29	4-15	3-10	2-8	2-6	1-5	F	185	31%	99%	C	307	11%	95%	VC	399	6%	86%	XC	484	3%	73%	NEW UR110-03 More information to come in 2020. Visit website for most up-to-date charts.				SR110-03	40287-03
	0.28	35	34	4-16	3-11	2-8	2-7	1-5	F	179	33%	98%	C	293	13%	95%	C	380	7%	88%	XC	464	4%	77%	NEW UR110-03 More information to come in 2020. Visit website for most up-to-date charts.				MR110-03	40291-03
	0.29	40	39	4-17	3-12	2-9	2-7	1-6	F	175	34%	98%	C	282	14%	96%	C	364	8%	90%	VC	447	5%	79%	NEW UR110-03 More information to come in 2020. Visit website for most up-to-date charts.				DR110-03	40286-03
03	0.33	50	48	5-20	3-13	2-10	2-8	2-7	F	167	37%	98%	M	263	17%	97%	C	337	10%	93%	VC	419	6%	83%	NEW UR110-03 More information to come in 2020. Visit website for most up-to-date charts.				ER110-03	40281-03
	0.36	60	58	5-21	4-14	3-11	2-9	2-7	F	160	39%	97%	M	247	19%	97%	C	315	11%	94%	C	396	6%	86%	NEW UR110-03 More information to come in 2020. Visit website for most up-to-date charts.				SR110-03	40287-03

PWM Duty Cycle (Effective "on-time" of solenoid)
PWM systems adjust rates by the length of time the solenoid stays open, in order to keep pressure constant for controlled spray quality. Duty cycle is calculated by dividing your travel speed into the max speed of the spray tip at your pressure. Min/Max operating duty cycles are 40-100%. (confirm with your PWM mfg.)

VMD (in μ) (Volume Median Diameter)
Size of the median droplet (in μ) for a sprayed volume. Half of the volume is made up of droplets smaller than VMD, with half made of droplets larger.

% <141 μ (% Driftable Fines)
Percentage of volume which is likely to drift. As wind conditions and boom height increase, observed spray drift will increase substantially. Try keep the %<141 μ to a minimum.

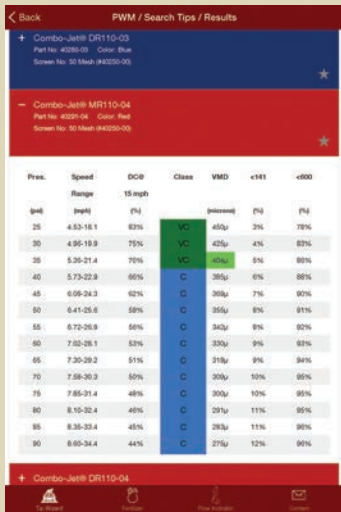
% <600 μ (% Useful Droplets)
Percentage of volume which is made up of "small" droplets. As % of useful droplets lowers, coverage is reduced. Try maintaining highest %<600, while keeping %<141 μ as low as possible.

ASABE Spray Classification (ASABE S572.1 Standard)
Spray quality is categorized based on Dv0.1 and VMD droplet sizes by 3rd party testing from spray spectrum recording equipment.

● Fine (F)
● Medium (M)
● Coarse (C)
● Very Coarse (VC)
■ Extr. Coarse (XC)
■ Ultra Coarse (UC)

Size	Flow Rate USGPM	BOOM PSI	TIP PSI	Sprayer Speed Range (Rounded)							Spray Classification; VMD (Droplet Size in μ); %<141 μ (Drift %); %<600 μ (Small Droplets)														Spray Tip & Part #						
				@ US Gallons/Acre on 20" Spacing							ER110 Series			SR110 Series			MR110 Series			DR110 Series			UR110 Series				Spray Tip	Part #			
				5 GPA	7.5 GPA	10 GPA	15 GPA	20 GPA	Class	VMD	<141	<600	Class	VMD	<141	<600	Class	VMD	<141	<600	Class	VMD	<141	<600	Class	VMD			<141	<600	
04	0.34	30	28	5-20	3-13	2-10	2-7	1-5	M	228	21%	97%	C	319	10%	93%	-	-	-	-	-	-	-	-	-	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	ER110-04	40281-04
	0.36	35	33	5-22	4-14	3-11	2-7	1-5	M	222	23%	97%	C	306	12%	94%	VC	404	5%	86%	XC	497	3%	71%	-	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	SR110-04	40287-04
	0.39	40	37	6-23	4-15	3-12	2-8	1-6	M	217	24%	97%	C	294	13%	95%	C	386	6%	88%	XC	478	4%	74%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	MR110-04	40291-04
	0.43	50	47	6-26	4-17	3-13	2-9	2-6	F	209	26%	96%	C	275	15%	96%	C	355	8%	91%	VC	447	5%	79%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	DR110-04	40286-04
	0.47	60	56	7-28	5-19	4-14	2-9	2-7	F	202	27%	96%	M	259	17%	96%	C	330	9%	93%	VC	421	6%	82%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	UR110-04	40292-04
	0.51	70	66	8-30	5-20	4-15	3-10	2-8	F	196	29%	96%	M	245	18%	97%	C	309	10%	95%	C	400	6%	84%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	ER110-05	40281-05
05	0.41	30	27	6-24	4-16	3-12	2-8	2-6	M	231	21%	95%	C	367	7%	90%	-	-	-	-	-	-	-	-	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	SR110-05	40287-05	
	0.45	35	32	7-26	4-18	3-13	2-9	2-7	M	217	25%	95%	C	334	10%	93%	VC	459	4%	76%	XC	513	3%	66%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	MR110-05	40291-05
	0.48	40	36	7-28	5-19	4-14	2-9	2-7	F	207	27%	95%	C	308	12%	94%	VC	427	5%	80%	XC	492	3%	70%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	DR110-05	40286-05
	0.53	50	45	8-32	5-21	4-16	3-11	2-8	F	198	29%	95%	C	287	14%	95%	C	400	6%	83%	XC	475	3%	73%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	UR110-05	40292-05
	0.58	60	54	9-35	6-23	4-17	3-12	2-9	F	192	31%	95%	M	269	15%	96%	C	378	7%	85%	XC	460	4%	75%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	ER110-06	40281-06
	0.63	70	63	9-37	6-25	5-19	3-12	2-9	F	186	32%	95%	M	253	17%	97%	C	359	7%	87%	VC	448	4%	77%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	SR110-06	40287-06
06	0.48	30	26	7-29	5-19	4-14	2-10	2-7	M	268	16%	94%	VC	438	5%	81%	-	-	-	-	-	-	-	-	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	MR110-06	40291-06	
	0.52	35	30	8-31	5-21	4-16	3-10	2-8	M	260	18%	94%	VC	414	6%	84%	XC	506	3%	68%	XC	563	2%	58%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	DR110-06	40286-06
	0.56	40	35	8-33	6-22	4-17	3-11	2-8	M	242	21%	95%	C	358	9%	90%	XC	465	4%	76%	XC	519	3%	65%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	UR110-06	40292-06
	0.63	50	43	9-37	6-25	5-19	3-12	2-9	M	233	23%	95%	C	330	11%	92%	VC	443	5%	79%	XC	496	3%	69%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	ER110-08	40281-08
	0.69	60	52	10-41	7-27	5-20	3-14	3-10	M	225	24%	95%	C	306	12%	93%	VC	426	5%	81%	XC	476	3%	71%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	SR110-08	40287-08
	0.74	70	61	11-44	7-29	5-22	4-15	3-11	M	218	25%	95%	C	285	13%	94%	VC	410	5%	83%	XC	460	3%	73%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	MR110-08	40291-08
08	0.67	35	28	10-40	7-26	5-20	3-13	2-10	C	298	17%	93%	XC	465	5%	64%	-	-	-	-	-	-	-	-	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	DR110-08	40286-08	
	0.71	40	32	11-42	7-28	5-21	4-14	3-11	C	286	18%	93%	XC	445	6%	68%	UC	522	4%	54%	UC	606	3%	42%	UC	-	-	-	UR tips are specialty spray tips to produce ultra coarse spray.	UR110-08	40292-08
	0.79	50	39	12-47	8-31	6-24	4-16	3-12	M	266	20%	95%</																			

A First-timer's look at Tip Wizard



Have More Questions?
CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Beginner's Guide to using Tip Wizard

- Choose application units, spray system type, and search function (e.g. Search for tips)**
 - Enter application rate, spraying speed¹, nozzle spacing, and spray tip angle².**
*¹Since PWM systems can modulate flow by changing the spray duration, enter the MAX typical spraying speed.
²Spray tip angle required is based on nozzle spacing and boom height. Always maintain 100% overlap.*
 - Enter target spray quality or target droplet size (microns). <This is where Tip Wizard gets more useful>**
Each chemical used in agricultural spraying has different spray quality requirements for best efficacy and also to maintain tolerable levels of driftable fines for spraying in ideal conditions. Using the droplet size (VMD) allows a more advanced way to filter through series of tips.
Where to find target spray quality or droplet size?
Depending on the chemical, as well as the different methods and modes of applications, some chemical labels may have less/more information. In general, chemical labels will have a description of how it should be applied, in the form of an ASABE spray classification recommendation, or a minimum spray classification (e.g. Spray at least ASABE Coarse)
- Application Information:

 - Water Volume: Minimum 22 L per acre. *Minimum water requirement on chemical label by law*
 - Nozzles and Pressure: 30 to 40 psi (210 to 275 kPa) when using conventional flat fan nozzles. *Reference max pressure for conventional nozzles like ER series. Try avoid non-drift reduction tips.*
 - Low drift nozzles may require higher pressures for proper performance. Use a combination of nozzles and pressure designed to deliver thorough, even coverage of ASABE coarse spray. *Droplet spectrum recommendation for balance of drift & coverage.*

Extremely Fine
 Very Fine
 Fine
 Medium
 Coarse
 Very Coarse
 Extremely Coarse
 Ultra Coarse
- Select the Best Spray Tip for your needs.**
For the example chemical label application information, we'd have a classification of COARSE droplet size to follow. Considering the mode of application as well as the action (e.g. systemic herbicide vs. contact herbicide), you can choose the spray quality that would suit your conditions as best as possible. REMEMBER: the larger the droplet size/VMD, the coarser the spray, resulting in less coverage.
For advanced users, using a VMD droplet size can further filter into a spray quality to make it easier to compare one series to another. For an example, we might find we typically have windier conditions, so try filter our results to stay around 375µ-400µ for our targeted droplet size.

A Quick-start guide to picking spray tips

- STEP 1: Size Your Tip** Since the application rate is intended to be the most consistent across the application, selecting a tip sized to properly apply a required rate over the actual sprayer speed range is critical. It is recommended to use Tip Wizard, as it will adjust the chart specifically for any application rate, not just common pairs of rate & speed.
FOCUS ON: SPEED & PRESSURE for a required APPLICATION RATE
Since it is the speed and pressure that will dictate a spray tips ability to match a rate, we must ensure our typical travel speed is met within a reasonable pressure range for our application. Anticipate meeting your minimum speed (e.g. turning) within the operational pressure range. Having pressure too low in slow spots can lead to spotty coverage.
Once you have referenced your chart to find your applied rate to your speed, you will find a certain nozzle size will be most effective.
***FOR PWM SPRAYERS (DUTY CYCLE):** Since you have more control of your pressure, your sprayer will typically allow for a wider selection of tip size. **Try to pick a size that allows a duty cycle of 60-80% at your typical sprayer speed**, allowing sufficient speed up/down.
- STEP 2: Qualify Your Spray Quality** Since each chemical will require a certain spray quality to be met (for labels that do not, consult chemical representative or agronomist, or general guide based on mode of application), since you have selected your tip size (e.g. 110-04) you can now qualify the series available within that size. The ER/SR/MR/DR/UR series differ based on spray quality & drift reduction.
FOCUS ON: 'ASABE S572' SPRAY CLASSIFICATION
Since the pressure is dictating the spray quality, you'll want to filter out any tip series that cannot apply the recommended spray quality.
***FOR PWM SPRAYERS (Pressure Selection):** Since you ultimately have more control of your pressure, your spray quality can be changed as needed (within capabilities of the tip). This means instead of maintaining the required quality through a fixed operating pressure range, you can maintain a more flexible pressure range (provided duty cycle is OK).
- STEP 3: Double Check** Once you have selected your best spray tip for your application, it is worthwhile to review some of the extra information provided for the spray tip, and re-evaluate if necessary. While the extra information is extrapolated from lab conditions, with no active ingredients, it cannot be considered actual, but it does lend to paint a picture of differences between series.
[ADVANCED] FOCUS ON: Spray % <141µ, Spray % <600µ, VMD (µ)
The extra columns reinforce the different spray qualities between different series, but also give the ability to make a rough spray plan for managing real life spraying conditions.
Spray % <141µ: % of total spray that can be considered driftable fines. In ideal conditions, it would be reasonable to assume this spray is NOT going where you want it to go. Due to evaporation before absorption, off-target spray or inversion, very small droplets will not likely hit target. Ideally have a spray tip that minimizes driftable fines, BUT ensure you maintain an acceptable level of coverage.
As speed, wind conditions & boom height increase, observed spray drift will increase substantially.
Spray % <600µ: % of total spray that can be considered small droplets. As % of these useful droplets lowers, coverage is reduced. Consider it the 'other half' of the spray application, focusing on small droplets for coverage. Whereas you should maintain a low %<141µ, try to keep a %<600µ as high as possible, to maintain better coverage. As a very rough guideline with some usually chemical applications, aim for ~80+% <600µ for systemic applications; or ~90+% <600µ for contact applications; provided drift reduction levels are met and are satisfactory.
VMD (µ): The volumetric median diameter is the middle-point of spray distribution, and can be used to estimate between different series of the same size spray tips (tested on the same laboratory equipment). It is not for comparing between brands of tips. If you are familiar with using a VMD in tip searches, you can use it as an intensive filter to further focus in on tips that might work for your application. For example, if you are happy with spray application with the MR110-04 at 50PSI (346µ VMD), the spray quality might be comparable to an SR110-06 at 50 PSI (337µ VMD). Bear in mind, VMD is used for educational purposes only, and should not dictate application.

Quick-Start Example:
10 US GPA @ 14 MPH on 20" SYSTEMIC HERBICIDE (glyphosate)

STEP 1: SIZE THE TIP
For the best option for a tip size, it'd likely be the 110-04 size. It would apply 10 US GPA, 14MPH at ~55 PSI, allowing reasonable room to keep pressure up into turns.

STEP 2: QUALIFY THE SPRAY
Since the chemical label for glyphosate requires a 'even coverage of ASABE COARSE droplets', we will filter out any series in the 110-04 size that do not qualify within our operational pressure range. This filters out the ER and the SR series, leaving us with the MR and DR series.
Note: DR series is coarser than required, but might be suitable for applicators who have to apply into more drift-sensitive areas.

For the purpose of the example, we will single out the MR110-04 as our best tip.

STEP 3: DOUBLE CHECK MR110-04 Ideal Condition Spraying @ 14MPH:
 @55PSI: COARSE Spray Class
 @55PSI % < 141µ: ~9% OK
 @55PSI % < 600µ: ~93% Excellent
Drift Sensitive Spraying @ 10MPH:
 @30PSI: VERY COARSE Spray Class
 @30PSI % < 141µ: ~5% Excellent
 @30PSI % < 600µ: ~84% Good

For PWM Sprayers: You can actively select pressure at any* speed, allowing more flexibility on drift reduction & coverage.
**within the capabilities of the system*

For more in-depth Guides, Videos or Reading on how to pick your best spray tip, visit www.wilger.net

We aim to have all sorts of ways to help make the best educated decision in picking and using spray tips, so if there is something you find would be helpful, don't hesitate to reach out and ask. Often, we cannot provide EVERYTHING there is to know in our guides, as it can be overwhelming, so if you are wanting to get more information from an expert, contact WILGER.

COMBO-JET® & Radialock Caps, Accessories & Adapters

Combo-Jet® & Square-Lug Outlet Adapters

Adapters are available to convert a square-lug nozzle outlet (e.g. Teejet, Hypro, Arag, etc.) to Combo-Jet® Outlets, or vice versa.

40204-00	Sq Lug (Teejet/Hypro/etc) to Combo-Jet Adapter, Lock-ring style	\$2.60
40202-00	Hardi to Combo-Jet Adapter, Snap-on style	\$2.60
40205-00	Agrifac to Combo-Jet Adapter, Sleeve insert	\$1.62
40203-00	Combo-Jet to Square Lug Adapter	\$2.60
40206-00	Square Lug to Double-Down CJ, Lock-ring style	\$5.72

40204-00
SQ LUG
TO CJ
-TWISTLOCK-



40203-00
CJ TO
SQ LUG
-TURN-



40202-00
HARDI
TO CJ
-SNAP-



40205-00
AGRICAF
TO CJ
-sleeve-



semi-permanent install

snap into any Combo-Jet cap to convert to Agrifac outlet

40206-00
SQ LUG
TO Double-Down
-TWISTLOCK-

Coming in 2021



Converts a square lug outlet to Double-down Combo-Jet Outlets

For viton O-ring options, contact Wilger. CANADA 1 (833) 242-4121 USA 1 (877) 968-7695

Radialock Caps & Flanged Spray Tips (for use on Combo-Jet® outlets)

(Different color caps available as non-stocked item. Black is standard. Order item number XXXX-01 for Red; -02 for White; -03 for Green; -04 for Yellow)

Radialock Slotted Caps (caps require 40160-00 seal)

40269-05	Radialock Cap, Universal 3/8" Tip Slot	\$1.00
40271-06	Radialock Cap, 1/2" Round Tip Slot	\$1.12
40275-05	Radialock Cap, Hardi Tip Slot	\$1.12
40276-05	Radialock Cap, 7/16" Wide Tip Slot	\$1.12
40279-05	Radialock Cap, High-Flow Slot	\$1.12
40160-00	Cap Gasket Seal, EPDM Rubber, Universal	\$0.65

40269-05



3/8" TIP

For standard Teejet/Hypro tips

40271-05



1/2" TIP

For high flow round tips

40276-05



7/16" TIP

For high flow Teejet/Hypro tips

40275-05



HARDI TIP

For Hardi brand tips

ER Series Flanged Spray Tips - Refer to Page 3/4 for Spray Tip Application Information

Tip Size	-005	-0067	-01	-015	-02	-025	-03	-04	-05	-06	-08
80° ER Tip	ER80-005	ER80-007	ER80-01	ER80-015	ER80-02	ER80-025	ER80-03	ER80-04	ER80-05	ER80-06	ER80-08
PART#	40170-005	40170-007	40170-01	40170-015	40170-02	40170-025	40170-03	40170-04	40170-05	40170-06	40170-08
110° ER Tip	-	-	ER110-01	ER110-015	ER110-02	ER110-025	ER110-03	ER110-04	ER110-05	ER110-06	ER110-08
Part #	-	-	40169-01	40169-015	40169-02	40169-025	40169-03	40169-04	40169-05	40169-06	40169-08
MSRP	\$15.25	\$15.24	\$11.84	\$11.84	\$11.84	\$11.84	\$11.84	\$11.84	\$11.84	\$11.84	\$11.84

ER 80° Flanged Tips



40170-04

ER 110° Flanged Tips



40169-04

Nozzle Gasket for Flanged Tips & Radialock slotted caps



40160-00

Combo-Jet® Caps, Metering Orifices & Accessories

(Different color caps available as non-stocked items. Check factory for stock. Black is standard. Order item number XXXX-01 for Red; -02 for White; -03 for Green; -04 for Yellow, -06 for Blue)

COMBO-JET® Metering Orifices - Refer to Page 3/4 for Flow Rate Information: For use as fixed metering orifices, or replacement metering orifice for spray tips

Orifice Size	-005	-0067	-01	-015	-02	-025	-03	-04	-05	-06	-08	-10	-125	-15	-20	-25	-30	-40	-50	
Part #	40285-005	40285-007	40285-01	40285-015	40285-02	40285-025	40285-03	40285-04	40285-05	40285-06	40285-08	40285-10	40285-125	40285-15	40285-20	40285-25	40285-30	40285-40	40285-50	
MSRP	\$8.01	\$8.01	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	\$6.03	
Strainer #	100 Mesh Strainer [Green] #40251-00										50 Mesh Strainer [Blue] #40250-00									
MSRP	\$1.90										\$1.90									

Combo-Jet Spray Tip Strainers & O-Rings

40250-00	Strainer, Combo-Jet Snap-in, 50 Mesh, Blue, SS	\$1.90
40251-00	Strainer, Combo-Jet Snap-in, 100 Mesh, Green, SS	\$1.90
40247-00	Strainer, Combo-Jet Snap-in, 16 Mesh Slotted, Grey, Plastic	\$1.88
40248-00	Strainer, Combo-Jet Snap-in, 25 Mesh Slotted, Yellow, Plastic	\$1.88
40249-00	Strainer, Combo-Jet Snap-in, 50 Mesh Slotted, Red, Plastic	\$1.88
40260-00	O-ring, Combo-Jet Spray Tip, 13mm x 3mm, FKM	\$0.27
40260-V0	O-ring, Combo-Jet Spray Tip, 13mm x 3mm, VITON®	\$0.28
40261-00	Adapter, CJ Snap-in Strainer & Seal Adapter	\$0.42

Metering Orifices

Combo-Jet metering & pre-orifices



40285-04 40285-15 40292-28

Snap-in Strainers

For Combo-Jet spray tips & metering orifices only



40250-00 40251-00 40249-00

O-rings & Adapter Seals

Combo-Jet metering & pre-orifices



40261-00 40260-00 40260-V0

COMBO-JET® UR Series* Dual-Chamber Pre-orifices [Repl. only]

UR pre-orifices must be replaced with a new pair only. Correct orifices must be used for proper performance.

Orifice Set	-025	-03	-04	-05	-06	-08	-10
Part #	40292-22	40292-23	40292-24	40292-25	40292-26	40292-28	40292-30
MSRP	\$11.63	\$11.63	\$11.63	\$11.63	\$11.63	\$11.63	\$11.63

*U.S. Patent No. 10,603,681 Plug Cap



Plug Cap		
Size	FKM O-ring Assy	Cap Only
Plug Cap	40272-B5	40272-05
	\$1.49	\$1.12

When to use a Y-Adapter or 'Double-Down' mode?

To split up a high volume, coarse spray nozzle into two more meaningful spray quality tips. Y-adapter is excellent for vertical growing targets, double-down is better into thick canopies.

PWM READY DOUBLE NOZZLE SPRAYING Just add the two tip sizes together for your PWM nozzle flow. For example: -04 + -04 = -08

*PWM Pressure drop based on the combined size.

40440-00

Y-Adapter tilts tips 60° forward & backwards



Coming in 2021



40441-00 Double-Down Adapter sprays two nozzles straight down

Splitter Caps		
Size	FKM O-ring Assy	Cap Only
Y-Adapter (60° Fwd/Bkwd)	40440-00	40440-01
	\$5.22	\$4.98
Double-Down	40441-00	40441-01
	\$5.22	\$4.98

Hose Barb Caps		
Hose Size	FKM O-ring Assy	Cap Only
1/8"	40420-B5	40420-05
	\$2.38	\$1.41
1/4"	40422-B5	40422-05
	\$2.38	\$1.41
3/8"	40424-B5	40424-05
	\$2.38	\$1.41
1/2"	40426-B5	40426-05
	\$2.38	\$1.41



40424-05

Quick-Connect Push-In Tube Caps		
Size (Tube O.D.)	FKM O-ring Assy	Cap Only
1/4"	40435-B5	40435-05
	\$5.23	\$4.27
5/16"	40437-B5	40437-05
	\$5.37	\$4.41
3/8"	40436-B5	40436-05
	\$5.37	\$4.41



40435-05

Fertilizer Streamer Caps

(req. metering orifice + seal)

# of Holes	Hole Size	Cap Only
2 Holes	Small (0.0469" Holes)	40432-047 \$7.95
	Medium (0.086" Holes)	40432-086 \$7.95
	Large (0.104" Holes)	40432-104 \$7.95
3 Holes	Small (0.0469" Holes)	40433-047 \$10.18
	Medium (0.067" Holes)	40433-067 \$10.18
	Large (0.086" Holes)	40433-086 \$10.18
	Large (0.104" Holes)	40433-104 \$10.18



40432-086 For 15" Outlet Spacing 40433-104 For 20" Outlet Spacing

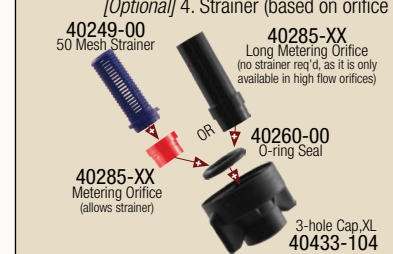


40273-05 40274-05

Threaded Outlet Caps		
Thread Size	FKM O-ring Assy	Cap Only
1/8" NPT-F	40277-B5	40277-05 \$2.38
	\$2.38	\$1.41
1/4" NPT-F	40273-B5	40273-05 \$2.38
	\$2.38	\$1.41
45° 1/4" NPT-F	40274-B5	40274-05 \$4.26
	\$4.26	\$3.29

HOW TO ORDER: Streamer Caps

1. Metering Orifice (40285-XX series)*
2. Streamer cap (2 or 3 hole, sized to orifice)
3. O-ring seal (40260-00 or 40260-V0)
- [Optional] 4. Strainer (based on orifice size)

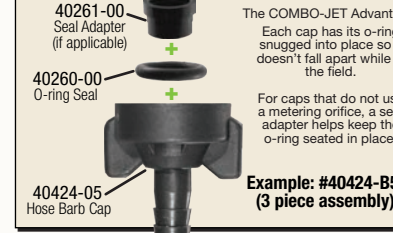


*For selecting metering orifices to fit your application, use Tip Wizard, consult flow charts, or use other tools available at www.wilger.net.

PRODUCT UPGRADE: FKM O-rings

Wilger parts are now being manufactured with fluoroelastomer (FKM) o-rings & seals. FKM o-rings provides superior chemical resistance and durability over Buna-N (previous standard). Viton branded o-rings are available for a premium o-ring option.

'FKM O-ring Assy' Breakdown



The COMBO-JET Advantage: Each cap has its o-ring snugged into place so it doesn't fall apart while in the field. For caps that do not use a metering orifice, a seal adapter helps keep the o-ring seated in place. Example: #40424-B5 (3 piece assembly)

COMBO-JET® Nozzle Bodies & Accessories

For Nozzle Body Brochure, visit www.wilger.net

Wet Boom Nozzle Bodies [Nozzle bodies mounted on a solid tube or pipe are considered 'wet boom']

Contact Wilger for part numbers.

Combo-Jet® Nozzle Bodies

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Single Outlet Combo-Jet Bodies

Boom Pipe	Outlets	Style	Part#	MSRP
3/4"	1 CJ	Check Valve	40611-00	\$5.85
1"	1 CJ	Check Valve	40621-00	\$5.85
		Manual On/Off	40621-MS	\$7.27
		KWIKSTOP	40631-00	\$7.88
		No Module	40621-NM	\$5.35



Stop Nozzle Run-on



KWIKSTOP™ nozzle bodies aspirate trapped air in the boom.
Less air = Less Drips & Run-on

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

Swivel Bodies can swap from left/right boom orientation as needed

Debris-cleaning inlet slots for less residue build-up

Swivel Bodies available in Combo-Jet and Square Lug (Teejet/Hypro/etc.) outlets

'-NM' Assemblies are cost effective replacement body for retrofitting PWM systems onto a sprayer

Available with 4PSI (repl. '-00' with '-P4'), 10PSI (Standard) & 15PSI (repl. '-00' with '-P15') check valve options.

Dual Outlet Swivel Combo-Jet Bodies

Boom Pipe	Outlets	Style	Part#	MSRP
3/4"	2 CJ	Check Valve	40612-00	\$15.08
1"	2 CJ	Check Valve	40622-00	\$15.08
		Manual On/Off	40622-MS	\$16.50
		KWIKSTOP	40632-00	\$17.10
		No Module	40622-NM	\$14.58



Triple Outlet Swivel Combo-Jet Bodies

Boom Pipe	Outlets	Style	Part#	MSRP
3/4"	3 CJ	Check Valve	40613-00	\$18.55
1"	3 CJ	Check Valve	40623-00	\$18.55
		Manual On/Off	40623-MS	\$19.97
		KWIKSTOP	40633-00	\$20.58
		No Module	40623-NM	\$18.05



Swivel Body Replacement Parts & Kits

40166-04	O-ring Repair Kit, CJ Nozzle Bodies, FKM (6 Bodies)	\$16.18
40166-05	O-ring Repair Kit, CJ Nozzle Bodies, VITON® (6 Bodies)	\$45.50
40193-02	SCREW, Hi-Lo, #10 x 3/4" SS [for Hinged Swivel Bodies]	\$0.25
40155-23	Molded Diaphragm, FKM (replaces 40155-07 + 20455-04)	\$1.26
20455-04	O-ring, Pressure Pad, Replacement (pairs with 40155-07)	\$0.26
40155-07	Diaphragm Rubber Seal, EPDM (use w/ #20455-04)	\$0.99
40155-12	Diaphragm Rubber Seal, VITON® (use w/ #20455-04)	\$3.50

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

BUINA-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.



Square Lug Outlet Swivel Bodies

For premium viton O-ring options, contact Wilger.

Single Outlet Square Lug Bodies

Boom Pipe	Outlets	Style	Part#	MSRP
3/4"	1 Sq. Lug	Check Valve	40651-00	\$5.85
1"	1 Sq. Lug	No Check	40140-00	\$4.33
		Check Valve	40661-00	\$5.85
		Manual On/Off	40661-MS	\$7.27
		KWIKSTOP	40671-00	\$7.88
		No Module	40661-NM	\$5.35
1"	1 Sq. Lug	No Check	40141-00	\$4.33



Dual Outlet Swivel Square Lug Bodies

Boom Pipe	Outlets	Style	Part#	MSRP
3/4"	2 Sq. Lug	Check Valve	40652-00	\$15.08
1"	2 Sq. Lug	Check Valve	40662-00	\$15.08
		Manual On/Off	40662-MS	\$16.50
		KWIKSTOP	40672-00	\$17.10
		No Module	40662-NM	\$14.58



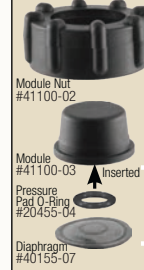
Triple Outlet Swivel Square Lug Bodies

Boom Pipe	Outlets	Style	Part#	MSRP
3/4"	3 Sq. Lug	Check Valve	40653-00	\$18.55
1"	3 Sq. Lug	Check Valve	40663-00	\$18.55
		Manual On/Off	40663-MS	\$19.97
		KWIKSTOP	40673-00	\$20.58
		No Module	40663-NM	\$18.05



PRODUCT UPGRADE: Diaphragms

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



This change is also made for manual on/off check valves. Ensure the diaphragm is seated like the [bottom view] example below, with a smooth sealing surface.



Using bodies with smooth clamps?

Swivel bodies have been switched to a standard bolt-mount hinge clamp.
 Contact Wilger for a cross-reference chart for the smooth clamp part numbers and their bolt-mount replacement.

Square Lug Caps, Plugs & Strainers

40150-00	Strainer, Flanged Tip, 50 Mesh, Blue, SS	\$1.14
40151-00	Strainer, Flanged Tip, 100 Mesh, Green, SS	\$1.14
40159-05	Sq Lug Cap, 3/8" Tip Slot, Black	\$0.84
40160-00	Gasket, Sq Lug Cap, Universal, EPDM	\$0.65
40160-V0	Gasket, Sq Lug Cap, Universal, VITON®	\$2.93
40198-SM	Gasket, Sq Lug Cap, smaller ID, EPDM	\$0.57
40164-00	Sq Lug Cap, 1/4" NPT-F, 45°, Black	\$3.27
40180-05	Sq Lug Cap, Blank Plug, Black	\$2.15



Contact Wilger for alternate color cap availability.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

COMBO-JET® Nozzle Bodies & Accessories

For Nozzle Body Brochure, visit www.wilger.net

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Compact Nozzle Bodies & Hose Drop Fittings

Model	10 PSI Check	4 PSI Check	No Module
1/8" NPT-F	40500-00 \$8.39	40500-P4 \$8.38	40500-01 \$3.98
1/4" NPT-F	40501-00 \$8.39	40501-P4 \$8.39	40501-01 \$3.98
1/4" Push-In	40502-00 \$11.35	40502-P4 \$11.35	40502-NM \$6.94



40497-00	Compact Outlet, 1/4" NPT-F to CJ Cap (no check valve)	\$2.34
40498-00	Compact Outlet, 3/8" NPT-F to CJ Cap (no check valve)	\$2.34
Hose Drop Fittings		
22021-00	16" Hose Drop, 1/4" NPT-M x 1/4" NPT-M, Nylon	\$11.36
22025-00	16" Hose Drop, 1/4" NPT-F x 1/4" NPT-M, Nylon	\$13.18
22026-00	16" Hose Drop, R/L Cap x 1/4" NPT-M, Nylon	\$10.95
22031-00	24" Hose Drop, 1/4" NPT-M x 1/4" NPT-M, Nylon	\$14.73
22035-00	24" Hose Drop, 1/4" NPT-F x 1/4" NPT-M, Nylon	\$16.55
22036-00	24" Hose Drop, R/L Cap x 1/4" NPT-M, Nylon	\$14.30
22037-00	36" Hose Drop, 1/4" NPT-M x 1/4" NPT-M, Nylon	\$24.35
22038-00	36" Hose Drop, R/L Cap x 1/4" NPT-M, Nylon	\$24.35
22047-00	48" Hose Drop, 1/4" NPT-M x 1/4" NPT-M, Nylon	\$24.35
22048-00	48" Hose Drop, R/L Cap x 1/4" NPT-M, Nylon	\$24.35

Hose drops connect to standard Combo-Jet & Combo-Rate nozzle bodies, or 1/4" NPT Thread. Available in sizes ranging from 16"-48".



Compact Bodies used as In-line Check Valves

The compact nozzle bodies can be used as an in-line check valve for liquid fertilizer kits or on other application equipment that requires a compact, remote check valve.

Combo-Rate® Nozzle Body Components & U-clip Accessories

40155-07	Diaphragm Rubber Seal, Fairprene	\$0.99
40155-12	Diaphragm Rubber Seal, VITON®	\$3.50
20455-04	O-ring, Pressure Pad, #108, FKM (Use with 40155-07/-12)	\$0.26
40155-23	Diaphragm, Molded, FKM (Replaces 40155-07 + 20455-04)	\$1.26
41100-02	Nut, CR Body Nut	\$1.53
41100-03	Diaphragm Check Valve Module Assy (use w/ #41100-02 nut)	\$3.06
41110-01	Manual ON/OFF Check Valve Module Assy, CR (10PSI)	\$4.57
41125-01	Air-Off Operated Check Valve Assy, CR	\$12.11
20455-00	Air Tee, 3/8" x 3/8" x 1/4"	\$9.42
20456-00	Reducer, 3/8" x 1/4" O.D. Tube	\$4.20
20457-00	Air Tee, 5/16" x 5/16" x 1/4"	\$9.51
41250-00	CR Adapter, 90° Elbow Assy, U-clip(F) to U-clip(M)	\$6.79
41251-00	CR Adapter, U-clip(F) x 1/4" NPT-F	\$4.71
41252-00	CR Adapter, U-clip(F) x 1/4" NPT-M	\$2.71
41253-00	CR Adapter, U-clip(F) x 3/8" NPT-M	\$2.71
41255-00	CR Adapter, U-clip(F) x 1/4" NPT-F, w/ 3/4" SQ MT Adapter	\$3.95
41256-00	CR Adapter, U-clip(F) x 3/8" NPT-F, w/ 3/4" SQ MT Adapter	\$3.95
41275-00	CR Adapter, U-clip(M) x 1/4" NPT-F	\$2.26
41276-00	CR Adapter, U-clip(M) x 3/8" NPT-F	\$2.26
41285-00	CR Adapter, U-clip(M) x Plug	\$1.78
41133-01	CR Nut, PWM solenoid (not included), Replacement	\$1.64
41150-00	Strainer, CR Inter-body, 50 Mesh (Blue)	\$2.52
41152-00	Strainer, CR Inter-body, 80 Mesh (Grey)	\$2.52
41151-00	Strainer, CR Inter-body, 100 Mesh (Green)	\$2.52



HOW TO ORDER: 4PSI/10PSI/15PSI Diaphragm Check Valves

Diaphragm Check Valves			Manual On/Off Check Valves		
PSI Shut-off	Part #	Color	PSI Shut-off	Part #	Color
10 PSI (Standard)	41100-03	BLACK	10 PSI (Standard)	41110-01	BLACK
4 PSI (Low)	41100-12	BLUE	4 PSI (Low)	41110-07	BLUE
15 PSI (High)	41100-11	RED	15 PSI (High)	41110-08	RED

To order 4 PSI or 15 PSI nozzle bodies, replace '-00' with '-P4' (4 PSI) or '-P15' (15 PSI) i.e. #40622-P15: C/J dual body w/ 15 PSI diaphragm check valve

PRODUCT UPDATE: Rubber Diaphragm Change

OLD	Diaphragm	Pressure Pad O-Ring	NEW	Diaphragm
Two-piece diaphragm & pressure pad O-ring	40155-07 (EOPM)	20455-04 (Blue-N)	One-piece integrated diaphragm & O-ring	40155-23 (FKM)
	40155-12 (viton)	20455-V4 (viton)		

Retro-fittable single molded seal replaces both the diaphragm & pressure pad o-ring.

*On most new parts after 2015

Combo-Rate® & O-Ring Seal Control Manifolds, Regulating Components & Accessories

For premium viton O-ring options, contact Wilger. CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Combo-Rate® manifolds can be used for a broad range of applications. Compatible Radialock caps shown on Page 6.

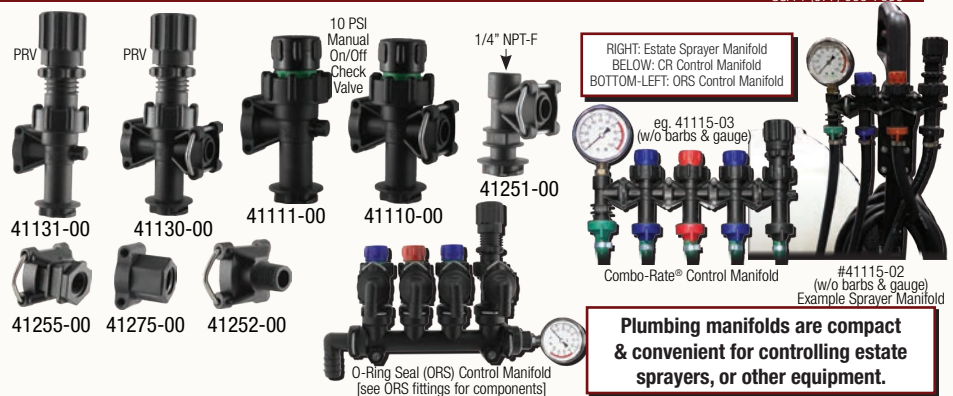
41130-00	CR Thru Body, Pressure Regulating Valve Assy	\$20.34
41131-00	CR End Body, Pressure Regulating Valve Assy	\$19.03
41110-00	CR Thru Body, Manual ON/OFF Check Valve	\$11.41
41111-00	CR End Body, Manual ON/OFF Check Valve	\$10.59
41252-00	CR Adapter, U-clip(F) x 1/4" NPT-M	\$2.71
41253-00	CR Adapter, U-clip(F) x 3/8" NPT-M	\$2.71
41255-00	CR Adapter, U-clip(F) x 1/4" NPT-F, w/ 3/4" SQ MT Adapter	\$3.95
41256-00	CR Adapter, U-clip(F) x 3/8" NPT-F, w/ 3/4" SQ MT Adapter	\$3.95
41275-00	CR Adapter, U-clip(M) x 1/4" NPT-F	\$2.26
41276-00	CR Adapter, U-clip(M) x 3/8" NPT-F	\$2.26
41251-00	CR Adapter, U-clip(F) x 1/4" NPT-F	\$4.71

Combo-Rate® Manifold pricing: (not incl. pres. gauge & caps)

41115-02	2 Outlet CR Manifold, w/ Inlet, PRV	\$47.59
41115-03	3 Outlet CR Manifold, w/ Inlet, PRV	\$58.99

Example ORS Manifold pricing: (pressure gauge not incl.)

2 Outlet ORS Manifold, w/ PRV (not incl. pressure gauge, outlets, inlet)	\$77.39
3 Outlet ORS Manifold, w/ PRV (not incl. pressure gauge, outlets, inlet)	\$95.01



Combo-Jet® Turret Adapters For Radialock & Square Lug Outlets

For premium viton O-ring options, contact Wilger. CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Turret adapters are only intended for slow movement activities without risk of being struck.

Combo-Jet® Adapter (Radialock to Combo-Jet® Cap)

40470-00	Swivel Turret Adapter Cap, Dual Nozzle, Combo-Jet	\$11.04
40471-00	Swivel Turret Adapter Cap, Triple Nozzle, Combo-Jet	\$15.17

Square Lug Adapter (Radialock to Square Lug Cap)

40472-00	Swivel Turret Adapter Cap, Dual Nozzle, Square Lug	\$11.04
40473-00	Swivel Turret Adapter Cap, Triple Nozzle, Square Lug	\$15.17



Combo-Rate® Boomless Sprayer Nozzle Body Assemblies

For viton assembly options, contact Wilger. CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Boomless sprayers are used to spray areas not accessible by a boom sprayers. For example: ditches, roadways, etc.

Assembly	Flow Rate	Part #	MSRP
3-Tip Boomless Assembly	1.3 US gpm	70154-01	\$139.79
	2.6 US gpm	70154-03	
	5.8 US gpm	70154-06	
5-Tip Boomless Assembly	2.3 US gpm	70155-02	\$223.47
	2.9 US gpm	70155-03	
	5.8 US gpm	70155-06	
7-Tip Boomless Assembly	11.5 US gpm	70155-12	\$308.62
	3.9 US gpm	70156-04	
	4.9 US gpm	70156-05	
	9.6 US gpm	70156-10	
	19.5 US gpm	70156-20	



Adjustable swath distance charts online

Easy-to-follow charts are online to help you figure out how to get the swath distance for your application needs.

Find them at WWW.WILGER.NET

COMBO-RATE® Nozzle Bodies

For Full COMBO-RATE® Nozzle Body Brochure, visit www.wilger.net

NOTE: All Wilger u-clip (male to female connections) components are compatible with COMBO-RATE® nozzle bodies and stacking components.

Combo-Rate® Side-Fed Inlet Saddles

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Boom Size	Inlet Size	Part # MSRP
3/4" Pipe	3/8" Inlet	41203-00 \$6.89
1" Pipe	3/8" Inlet	41200-00 \$6.89
	9/16" Inlet	41201-00 \$6.89
2" Pipe	9/16" Inlet	41206-00 \$8.01



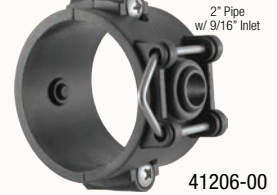
41203-00



41200-00



41201-00



41206-00

Combo-Rate® II Bottom-Fed or Top-Fed Saddles

For premium viton O-ring options, contact Wilger.

One-Way Combo-Rate II Saddles

Boom Size	Inlet Size	Stacking Direction	Part# & MSRP
1/2" Pipe	3/8" Inlet	One-Way	41471-00 \$6.55
1" Pipe	3/8" Inlet	One-Way	41475-00 \$6.55
	9/16" Inlet	One-Way	41477-00 \$6.55

41471-00
ONE-WAY
1/2" Boom Pipe

41475-00
ONE-WAY
1" Boom Pipe

Two-Way Combo-Rate II Saddles

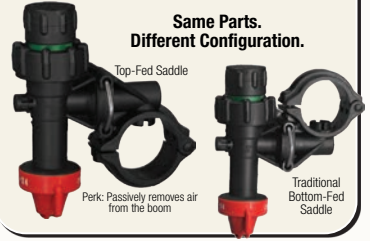
Boom Size	Inlet Size	Stacking Direction	Part# & MSRP
1/2" Pipe	3/8" Inlet	Two-Way	41472-00 \$8.24
1" Pipe	3/8" Inlet	Two-Way	41476-00 \$8.24
	9/16" Inlet	Two-Way	41478-00 \$8.24

41472-00
TWO-WAY
1/2" Boom Pipe

41476-00
TWO-WAY
1" Boom Pipe

COMBO-RATE® II (CRII) Saddle Perks Active Air Purge

If you are upgrading to (or have) a CRII saddle on your sprayer, something you might not know is that you can rotate your boom so your inlet hole is pointing up, and use the CRII saddle as a 'top-fed saddle', passively pulling any air out of a boom across the entire length as fast as possible.



Same Parts. Different Configuration.

Combo-Rate® II Stacking Nozzle Bodies (CRII Stacking Bodies require a Combo-Rate turret, plug or end/thru body to fully assemble for use)

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Nozzle bodies are listed as One-Way or Two-Way nozzle bodies, based on how many open u-clip (or combo-clip) ports are available.

One-Way Combo-Rate II Stacking Nozzle Bodies

Boom Size	Inlet Size	Stacking Direction	Nozzle Bodies with 5/16" Bolt Mount Upper Clamp			
			Description, Part# & MSRP			
			Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o Nut)**
1/2" Pipe	3/8" Inlet	One-Way	41411-00 \$15.34	41413-00 \$16.98	41415-00 \$20.09	41417-00 \$10.26
3/4" Pipe	3/8" Inlet	One-Way	41421-00 \$15.34	41423-00 \$16.98	41425-00 \$20.09	41427-00 \$10.26
28mm Pipe	3/8" Inlet	One-Way	41481-00 \$15.34	41483-00 \$16.98	41485-00 \$20.09	41487-00 \$10.26
1" Pipe	3/8" Inlet	One-Way	41431-00 \$15.34	41433-00 \$16.98	41435-00 \$20.09	41437-00 \$10.26
	KWIKSTOP 3/8" Inlet	One-Way	41451-00 \$17.04	41453-00 \$18.87	41455-00 \$22.24	41457-00 \$11.40
	9/16" Inlet	One-Way	41441-00 \$15.34	41443-00 \$16.98	41445-00 \$20.09	41447-00 \$10.26

**PWM bodies/turrets do not include a body nut or control module.

Two-Way Combo-Rate II Stacking Nozzle Bodies

Boom Size	Inlet Size	Stacking Direction	Nozzle Bodies with 5/16" Bolt Mount Upper Clamp			
			Description, Part# & MSRP			
			Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o Nut)**
1/2" Pipe	3/8" Inlet	Two-Way	41412-00 \$17.03	41414-00 \$18.88	41416-00 \$21.79	41418-00 \$11.95
3/4" Pipe	3/8" Inlet	Two-Way	41422-00 \$17.03	41424-00 \$18.88	41426-00 \$21.79	41428-00 \$11.95
28mm Pipe	3/8" Inlet	Two-Way	41482-00 \$17.03	41484-00 \$18.88	41486-00 \$21.79	41488-00 \$11.95
1" Pipe	3/8" Inlet	Two-Way	41432-00 \$17.03	41434-00 \$18.88	41436-00 \$21.79	41438-00 \$11.95
	KWIKSTOP 3/8" Inlet	Two-Way	41452-00 \$18.92	41454-00 \$20.75	41456-00 \$24.12	41458-00 \$13.28
	9/16" Inlet	Two-Way	41442-00 \$17.03	41444-00 \$18.88	41446-00 \$21.79	41448-00 \$11.95
	High Flow 21/32" Inlet	Two-Way	41462-00 \$17.03	41464-00 \$18.88	41466-00 \$21.79	41468-00 \$11.95

**PWM bodies/turrets do not include a body nut or control module.

Combo-Rate® II Nozzle Body Replacement Components

40200-02	O-ring, CR Inter-body, #206, FKM	\$0.26
20460-04	U-clip, 304SS	\$1.85
41331-03	Screw, CRII Hinge Clamp	\$0.37
41285-00	Adapter, CR Plug (Covers unused Combo-Rate port)	\$1.78
20455-07	O-ring, 3/8" Nozzle Body Inlet Stem, #110, FKM	\$0.27
40200-02	O-ring, 9/16" Nozzle Body Inlet Stem, #206, FKM	\$0.26
41361-02	O-ring, 21/32" Nozzle Body Inlet Stem, #115, FKM	\$0.25



PRODUCT UPGRADE: Diaphragms (Page 8 for details)

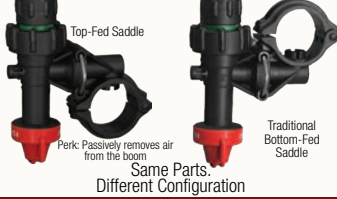
NEW A molded, single-piece diaphragm is replacing the two-piece diaphragm rubber + pressure pad o-ring. For parts replacement, **ENSURE** pressure pad o-ring is removed from module, and molded diaphragm fits where the pressure-pad o-ring was.

COMBO-RATE® STACKING COMPONENTS & ACCESSORIES

COMBO-RATE® Side-Fed Saddles



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



COMBO-RATE® II Bottom-Fed Nozzle Body



COMBO-RATE® Stacking Components



Combo-Rate® Stacking Thru/End Nozzle Bodies (use with Combo-Rate® saddle bodies)

Model	Part # & MSRP			
	Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o nut)**
Thru Body Assembly	41100-00 \$9.98	41110-00 \$11.41	41125-00 \$14.52	41135-00 \$4.52
End Body Assembly	41101-00 \$9.10	41111-00 \$10.59	41126-00 \$13.70	41136-00 \$3.38
Swivel End Body Assembly	41102-00 \$12.34	41112-00 \$13.83	41127-00 \$0.00	41137-00 \$8.96

For premium viton O-ring options, contact Wilger. CANADA 1 (833) 242-4121 USA 1 (877) 968-7695

Manual ON/OFF Diaphragm Check Valve 41110-00
 Air-Off Operated Check Valve 41125-00
 Manual ON/OFF Diaphragm Check Valve 41111-00
 PWM w/o nut** (For PWM Solenoids or equivalent control) 41136-00
 Swivel End Body w/o nut (or equiv) 41137-00

** PWM bodies/turrets do not include a body nut. Control module or solenoid must be used.

Combo-Rate® Stacking Turrets (use with Combo-Rate® saddle bodies)

Number of Outlets	Module or Check Valve Orientation	Part # & MSRP			
		Dia. Check Valve	Manual ON/OFF	Air-Off Operated	PWM (w/o nut)*
3 CJ Outlet	Front	41503-00 \$20.01	41513-00 \$21.44	41543-00 \$24.55	41533-00 \$14.93
	Side (Reversible)	41603-00 \$22.46	41613-00 \$23.88	41643-00 \$26.99	41633-00 \$17.37
	Top	41803-00 \$23.50	41813-00 \$24.92	41843-00 \$28.03	41833-00 \$18.41
4 CJ Outlet	Front	41504-00 \$20.01	41514-00 \$21.44	41544-00 \$24.55	41534-00 \$14.93
	Side (Reversible)	41604-00 \$22.46	41614-00 \$23.88	41644-00 \$26.99	41634-00 \$17.37
	Top	41804-00 \$23.50	41814-00 \$24.92	41844-00 \$28.03	41834-00 \$18.41
5 CJ Outlet	Front	41505-00 \$20.01	41515-00 \$21.44	41545-00 \$24.55	41535-00 \$14.93
	Side (Reversible)	41605-00 \$22.46	41615-00 \$23.88	41645-00 \$26.99	41635-00 \$17.37
	Top	41805-00 \$23.50	41815-00 \$24.92	41845-00 \$28.03	41835-00 \$18.41
3 CJ Outlet + 2 SQ Lug Outlet	Front	41505-32* \$20.01	41515-32* \$21.44	41545-32* \$24.55	41535-32* \$14.93
	Side (Reversible)	41605-32 \$22.46	41615-32 \$23.88	41645-32 \$26.99	41635-32 \$17.37
	Top	41805-32 \$23.50	41815-32 \$24.92	41845-32 \$28.03	41835-32 \$18.41
Double-Down + 3 CJ Outlet**	Side (Reversible)	41606-00 \$25.48	41616-00 \$26.90	41646-00 \$30.01	41636-00 \$20.39
Double-Down + 4 CJ Outlet	Front	41506-00 \$23.03	41516-00 \$24.46	41546-00 \$27.57	41536-00 \$17.95
	Top	41806-00 \$26.52	41816-00 \$27.94	41846-00 \$31.05	41836-00 \$21.43

* PWM bodies/turrets do not include a body nut or control module.
 ** 3+DD side turrets can use 3 Combo-Jet® nozzle outlets & 1 double-down outlet. Unusable single outlet will depend on check valve orientation.

NEW DOUBLE DOWN TURRETS

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

PWM APPROVED

41636-00 Double-Down Side Turret w/ Spray tips

41836-00 4+1 Double-Down Top Turret w/ Solenoid (solenoid sold sep.)

UNIVERSAL SIDE TURRETS

Switch a module stem from left to right in seconds. No extra parts needed.

180° Reversible Module Stems

41635-00 PWM Side Turret** (w/o nut)

Right Module Orientation

Left Module Orientation

CR Front Turrets

41535-00 PWM Turret (w/o nut)

41515-00 Manual ON/OFF Module

CR Side Turrets

41615-00 Manual ON/OFF Module

41815-00 Manual ON/OFF Module

NEW CR Top Turrets

41816-00 Manual ON/OFF Module w/ Double-Down

41835-00 No Nut (for PWM Solenoid)

Combo-Rate® Turret & Body Replacement Parts & Repair Kits

41502-11	CR Turret Repair Kit, FKM (2 Bodies)	\$16.01
41502-12	CR Turret Repair Kit, VITON® (2 Bodies)	\$48.15
41502-04	CR Turret Outlet Arm, Combo-Jet Outlet	\$1.00
41502-10	CR Turret Outlet Arm, Square Lug Outlet	\$1.00
41502-13	CR Turret Outlet Arm, Double-Down Combo-Jet Outlet	\$4.02
41502-05	CR Turret Outlet Arm, Plug	\$0.78
40155-23	Diaphragm, Molded, FKM (Replaces #40155-07 + 20455-04)	\$1.26
20455-07	O-ring, CR Turret Outlet, #110 Duro 70, FKM	\$0.27
40200-02	O-ring, CR Inter-body, #206 Duro 70, FKM	\$0.26
41331-03	Screw, SS, CRII Body Hinge Clamp Screw (for 2016+ newer)	\$0.37
41100-15	CRII Nozzle Body O-ring Repair Kit, FKM (6 Bodies)	\$9.99
41100-16	CRII Nozzle Body O-ring Repair Kit, VITON® (6 Bodies)	\$48.95

41502-04* 41502-10* 41502-13* 41502-05*

40155-23 replaces 40155-07 Diaphragm + pad o-ring

41331-03 20455-04 20455-07 40200-02

COMBO-RATE® Turret Repair Kits (For up to 2 turrets):

- 10x Turret Outlet O-rings #20455-07
- 4x Turret Core O-rings #41502-06
- 2x Diaphragm #40155-07
- 2x Combo-Jet Outlet Arm #41502-04
- 2x Turret Plugs #41502-05
- 2x Turret Lock Clips #41502-09

Buna Kit includes viton Kit incl.

COMBO-RATE® II Body Repair Kits* (For up to 6 bodies):

- 6x Pressure Pad O-rings #20455-04
- 6x Inter-body O-rings #40200-02
- 6x Diaphragms #40155-07

Buna Kit includes viton Kit incl.

*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.

Dry Boom Nozzle Bodies & Clamps [Nozzle bodies fed directly by a hose are considered 'dry boom' nozzle bodies]

Low Mount Compact Bodies - 11/16" Thread Mount & 5/8" Square-Mount Nozzle Bodies

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

5/8" Square Mount Body w/ Diaphragm Check Valve (Non-Stocked Item - Contact Factory for Availability)

Type	3/8" Hose Shank	1/2" Hose Shank	3/4" Hose Shank	MSRP
One-Way Left	40380-00	40385-00	40390-00	\$8.88
One-Way Right	40381-00	40386-00	40391-00	\$8.88
Two-Way	40382-00	40387-00	40392-00	\$8.88
Three-Way	40383-00	40388-00	N/A	\$8.88

11/16" Thread Mount Body w/ Diaphragm Check Valve (Non-Stocked Item - Contact Factory for Availability)

Type	3/8" Hose Shank	1/2" Hose Shank	3/4" Hose Shank	MSRP
One-Way Left	40360-00	40365-00	40370-00	\$8.88
One-Way Right	40361-00	40366-00	40371-00	\$8.88
Two-Way	40362-00	40367-00	40372-00	\$8.88

40155-21	Module Retainer, Replacement	\$1.76
40199-00	Lock Nut, 11/16" Thread	\$0.65



Combo-Jet® Square-Mount Dry Boom Nozzle Bodies

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Outlet	Single	Dual Swivel	Triple Swivel
Combo-Jet	40352-00	40353-00	40354-00
Square Lug	-	40152-00	40153-00
	\$9.78	\$18.18	\$22.87

Hose Shank Adapters for 3/8" NPT-F Inlet Nozzle Bodies

Model	3/8" Hose Shank	1/2" Hose Shank	3/4" Hose Shank	MSRP
One-Way	40301-00	40306-00	40311-00	\$2.15
Two-Way	40302-00	40307-00	40312-00	\$2.15
Three-Way	N/A	N/A	40313-00	\$2.91



High Mount Dry Boom Nozzle Bodies w/ Hose Shank - 5/8" Square-Mount & Flange Mount Style

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

5/8" Square Mount Bodies w/ Diaphragm Check Valves (N/S)

Model	3/8" Hose	1/2" Hose	MSRP
One-Way	40450-00	40452-00	\$6.59
Two-Way	40451-00	40453-00	\$6.59
One-Way w/ 1/4" NPT-M	N/A	40454-00	\$6.59

Flange Mount Bodies w/ Diaphragm Check Valves (N/S)

Model	3/8" Hose	1/2" Hose	MSRP
One-Way	40460-00	40462-00	\$8.52
Two-Way	40461-00	40463-00	\$8.52
One-Way w/ 1/4" NPT-M	N/A	40464-00	\$8.52

Square Mount Body w/o Diaphragm Check Valve

40406-00	Compact Nozzle Body, 5/8" Sq. Mount, 1/2" One-Way	\$2.34
40407-00	Compact Nozzle Body, 5/8" Sq. Mount, 1/2" Two-Way	\$2.34



Adjustable Swivel Bodies

For premium viton O-ring options, contact Wilger.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Inlet	Outlet					
	Without Dia.		Dia. Check		Manual ON/OFF	
	Single	Double	Single	Double	Single	Double
1/4" NPT-M	40225-00	40226-00	40231-00	40232-00	40237-00	40238-00
	\$7.61	\$9.09	\$11.94	\$17.74	\$13.84	\$21.58
1/4" NPT-F	40227-00	40228-00	40233-00	40234-00	40239-00	40240-00
	\$8.13	\$9.59	\$12.46	\$18.26	\$14.40	\$22.12
1/4" NPT-M x 1/4" NPT-F	40229-00	40230-00	40235-00	40236-00	40241-00	40242-00
	\$8.53	\$10.00	\$12.86	\$18.66	\$14.80	\$22.50
3/8" Hose Shank w/ Sq. Mount	40243-00	-	40244-00	-	40245-00	-
	\$7.61	-	\$11.94	-	\$13.85	-

40237-03 Diaphragm Shut-off Assembly, Replacement (for swivel & compact bodies only)\$5.47



Clamps for Sprayer Booms & 1/4" Bolt Mount Equipment

Contact factory for clamp availability and leadtimes.

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Boom Clamps for 5/8" Square-Mount Nozzle Bodies (Stainless Steel)

Size	5/8" Square Mount Clamp (SS)			High Reach 5/8" Sq. Mt Clamp (SS)		
	Pipe	Sq. Tube	MSRP	Pipe	Sq. Tube	MSRP
1/2"	40320-SS	N/A	\$17.08	N/A		-
3/4"	40321-SS	40325-SS	\$17.08	3/4" to 1-1/4" 40341-SS		\$27.50
1"	40322-SS	40326-SS	\$17.08			
1 1/4"	N/A	40327-SS	\$17.08	1-1/2" to 2" 40342-SS		\$27.50
1 1/2"	N/A	40328-SS	\$17.08			
2"	N/A	40330-SS	\$17.08			

40343-SS Dry Boom Clamp, Extra High Reach, 3/4" Tube x 5/8" Square Mount \$35.13

Clamps for 1/4" Bolt-Mount Bodies & Manifolds (Stainless Steel)

Size	Two-Hole Bolt-Mount Clamps (fits 1/4" to 5/16" bolts)		Three-Hole Bolt-Mount Clamps (fits 1/4" to 5/16" bolts)	
	Sq Tube	MSRP	Sq. Tube	MSRP
1"	40550-SS	\$24.38	40553-SS	\$24.38
1 1/4"	40551-SS	\$24.38	40554-SS	\$24.38
1 1/2"	40552-SS	\$24.38	40555-SS	\$24.38

Clamps for 3/4" Square-Mount Adapters to CR11 Nozzle Bodies

Size	3/4" Square Mount Nozzle Body Clamp	MSRP
1" Sq. Tube	41261-SS	\$17.08
1 1/4" Sq. Tube	41262-SS	\$17.08
1 1/2" Sq. Tube	41263-SS	\$17.08
2" Sq. Tube	41264-SS	\$17.08

Example of 3/4" Square mount clamp and adapter, mating to a Combo-Rate stacking w-clip
41261-SS
Use #41255-00 (1/4" NPT-F) or #41256-00 (3/8" NPT-F) Adapters

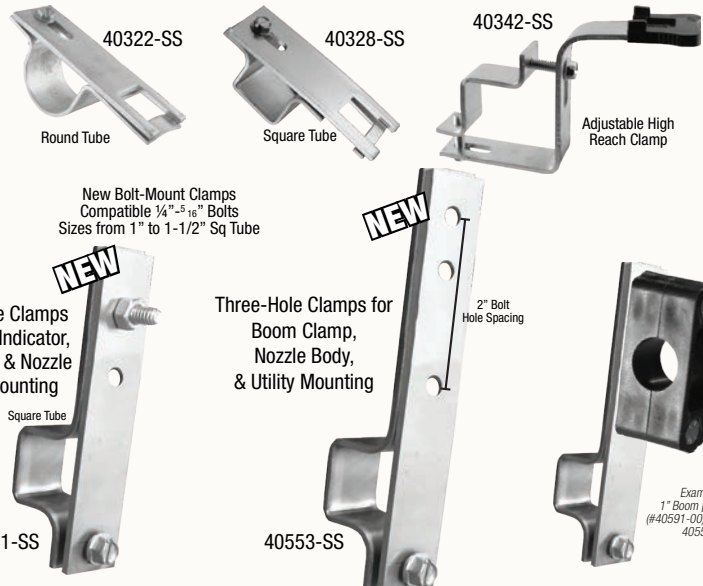


Two-Hole Clamps for Flow Indicator, Manifold, & Nozzle Body Mounting

40551-SS

Three-Hole Clamps for Boom Clamp, Nozzle Body, & Utility Mounting

40553-SS



Quick-Flange Fittings & Fluid Supply System

Engineered Flanged Sprayer Fittings & Tube

For more on Quick-Flange Fittings, visit www.wilger.net

NEW Product Release: Quick Flange Boom Fittings & Accessories

A new product line of engineered sprayer boom fittings to outfit the next generation of sprayers is now here!

With emphasis on cutting out contamination, integrating recirculation functions, and generally improving the ability to build a better boom. Wilger is committed to developing and producing high quality liquid application components that are used in setting best practices in an ever-changing environment.

Adapting Quick-Flange Fittings to 1" PIPE, 1" QN SST, or Case TWS Booms

QF100 Fittings can be seamlessly retrofitted or adapted to any 1" Pipe, QN SST, or TWS Booms to a 1" Flange Fitting.

Case TWS to Quick-Flange

Super Compact Sleeve Adapter

27313-00 27316-00 27343-00
2pc. Compact Sleeve TWS to QF100 Seal QF100 x 1-1/4" HB, 90°
Two-piece sleeve adapter clips over the end of the tube, using a custom TWS to QF100 Flange seal.

3-piece Flange Sleeve Adapter

27312-00 27316-00 27343-00
3pc. Long Sleeve TWS to QF100 Seal QF100 x 1-1/4" HB, 90°
Three-piece flange adapter snaps over the boom pipe and tightens with a binding nut, sealing with a TWS to QF100 Seal.

NEW! Quick-Flange Clamp

Clamp with butterfly or standard nut.

27310-00
QF100 Clamp, Butterfly Nut

Easy Handling
Rotates to stay clear of boom frame
No Threaded Connections required
Easier installation than metal flange clamps
Compatible with Standard 1" Flange Fittings
Lots of flanged fittings available for recirculating systems and beyond

1" SST to Quick-Flange

Super Compact Sleeve Adapter

27313-00 27315-00 27343-00
2pc. Compact Sleeve SST to QF100 Seal QF100 x 1-1/4" HB, 90°
Two-piece sleeve adapter clips over the end of the tube, using a custom SST to QF100 Flange seal.

3-piece Flange Sleeve Adapter

27312-00 27315-00 27343-00
3pc. Long Sleeve SST to QF100 Seal QF100 x 1-1/4" HB, 90°
Three-piece flange adapter snaps over the boom pipe and tightens with a binding nut, sealing with a SST to QF100 Seal.

QF100 Fittings on a Traditional Sprayer Boom

Conventionally plumbed Center-Fed Section using Case Thin-Walled Stainless (TWS) Boom Tube

27351-00 QN100M x QF100
25175-LV0 QN100 BEFV
27310-00 QF100 Clamp
27316-00 QF100 to TWS Seal
27313-00 QF100 Compact Flange End
27310-00 QF100 Clamp
27316-00 QF100 to TWS Seal
27313-00 QF100 Compact Flange End
27322-00 QF100 Tee 1-1/4" HB x QF100 x QF100
27310-00 QF100 Clamp
27313-00 QF100 Compact Flange End
27316-00 QF100 to TWS Seal
27313-00 QF100 Compact Flange End
27310-00 QF100 Clamp
27351-00 QF100 x QN100M
25175-LV0 QN100 BEFV

QF100 Fittings on a Recirculating Sprayer Boom

Recirculating Center-Fed Section using QN SST Boom Tube

27317-00 QF100 90° 1-1/4" HB Sweep
27310-00 QF100 Clamp
27315-00 QF100 to QNSST Seal
27313-00 QF100 Compact Flange End
27310-00 QF100 Clamp
27315-00 QNSST to QF100 Seal
27313-00 QF100 Compact Flange End
27322-00 QF100 Tee 1-1/4" HB x QF100 x QF100
27310-00 QF100 Clamp
27313-00 QF100 Compact Flange End
27315-00 QNSST to QF100 Seal
27310-00 QF100 Clamp
27317-00 QF100 90° 1-1/4" HB Sweep
27310-00 QF100 Clamp
27324-00 QF100 90° Sweep Elbow

Quick-Flange Fittings & Fluid Supply System

Engineered Flanged Sprayer Fittings & Tube

For more on Quick-Flange Fittings, visit www.wilger.net

Some Perks of the New Quick-Flange Fittings

QF100 Fittings can be seamlessly retrofitted or adapted to any 1" Pipe, QN SST, or TWS Booms to a 1" Flange Fitting.

1" Flange Compatibility

Compatible with other 1" Flange Fittings

Quick Flange Clamp is compatible with other 1" flange fittings

Compact Ends

Super Compact Boom Ends

The compact flange end adapter can be as little as 1/2" away from the nozzle body, leaving even less dead space for residue to accumulate.

Boom Ends can be ultimately as close as possible to reduce chemical residue build-up.

Robust Sweep Fittings

Sweep Fittings for less pressure loss

More Sweep Fittings coming in 2021!

Recirculation Made Easy

Any recirculating plumbing configurations

Minimize the amount of 'boom deadspots' for residue build-up further by cutting down the length of hose used to plumb the sprayer.

Quick-Flange 100 (QF100) Fittings

QF100 Quick Clamps	
27310-00	QF100 Clamp, Butterfly Nut.....\$9.40
27311-00	QF100 Clamp, Hex Nut.....\$9.85
Boom End Tube Adapters	
27312-00	Adapter Assy, 3 piece, QNSST/TWS to QF100, Long.....\$10.41
27312-01	Component, Half-Thread, Long.....\$2.05
27312-02	Component, Binding Nut, Long.....\$2.05
27313-00	Adapter Assy, 2 piece, QNSST/TWS to QF100, Compact.....\$4.21
27313-01	Component, Half-Thread, Compact.....\$1.36
QF100 Seals & Adapter Seals (For QNSST and TWS)	
27315-00	Seal, QNSST to QF100, VITON®.....\$7.04
27316-00	Seal, TWS to QF100, VITON®.....\$7.26
27317-00	Seal, QF100 to QF100, VITON® (Fits standard 1" Flange).....\$6.77
QF100 Tee & Elbow Fittings	
27321-00	QF100 Tee, QF100 x QF100 x QF100.....\$7.70
27323-00	QF100 Tee, QF100 x QF100 x 1" HB.....\$6.98
27322-00	QF100 Tee, QF100 x QF100 x 1-1/4" HB.....\$7.70
27324-00	QF100 Elbow, QF100, 90°, Compact.....\$7.22
1" Hose Barb Fittings	
27331-00	QF100 Hose Barb, QF100 x 1" HB, Straight.....\$3.23
27333-00	QF100 Hose Barb, QF100 x 1" HB, 90° Sweep.....\$3.88
1-1/4" Hose Barb Fittings	
27341-00	QF100 Hose Barb, QF100 x 1-1/4" HB, Straight.....\$3.23
27343-00	QF100 Hose Barb, QF100 x 1-1/4" HB, 90° Sweep.....\$3.88
QF100 Adapters and Plugs	
27351-00	Adapter, QF100 x QN100-M Thread.....\$3.63
27352-00	Adapter, QF100 x TWS-M Thread.....\$3.63
27353-00	QF100 Plug, Cap.....\$3.27

Quick-Flange Clamp, Boom End Adapters & Seals

Adapt any boom pipe to Quick Flange Fittings

27312-00 3-piece End Adapter Adapts QNSST or TWS Tube to QF100 Flange

27313-00 2-piece End Adapter Adapts QNSST or TWS Tube to QF100 Flange

27310-00 Quick Clamp with Butterfly Nut

27317-00 QF100 Standard Gasket

27315-00 Tapered Inside surface mates with QNSST Rolled End

27316-00 Stepped Seal Seats inside TWS Flared End

Quick-Flange Tees & Elbows

Easy assembly and disassembly without tools
Sweep elbows reduce flow turbulence

27322-00

27321-00

27324-00

More Flange Fitting Options Coming in 2021

Quick-Flange Hose Barb Fittings

Available in 1" and 1-1/4" hose barb sizes
Compact hose barb fittings

27343-00 1-1/4" HB Elbow, 90°

27333-00 1" HB Elbow, 90°

27341-00 1-1/4" HB Straight

27331-00 1" HB Straight

Quick-Flange Adapters & Caps

Adapt to any series of Quick-Nut or TWS Fittings

27352-00 QF100 to TWS-M

27351-00 QF100 to QN100 or 1-1/4" NPT-M

27353-00 QF100 Cap

More Fittings & Adapters Coming in 2021!

Keep your eyes & ears open for new Quick-Flange fittings and adapters that will be coming through 2021. Lots of new and awesome products will continue to be produced into 2022 and beyond.

Boom End Flush Valves

Easily add a Flush Valve to any QF100 connection

27351-00 QN100 VERSION 25175-LV0

27352-00 Case TWS VERSION 41402-LV0

Full Drain Valve on Recirc

1" QUICK-NUT (QN100) Stainless Steel Fluid Supply

Engineered Sprayer Boom Pipe & Fittings

For the Full Quick-Nut Brochure, visit www.wilger.net

QN100 is 1" Quick Nut SST

With additions of the 1" Quick-Flange 100 series (QF100), Wilger is rebranding 1" Quick Nut Boom Fittings to QN100. Nothing has changed but the name.

Lighter Booms
weighs 66% of aluminum
23% of sch 40 pipe
Lighter than hose

Less Pressure Drop
with inside diameter >1.25"

Sweep Fittings
reduce turbulence &
increase flow capacity

Lower Cost
compared to other
pipe plumbed booms

Recirculating Boom
compatible boom fittings and
tubing

Less Chemical Residue Build-Up
compared to hose plumbed boom

1" Quick-Nut Stainless Steel Tubing & QN100 Fittings

Contact Wilger For Custom Boom Tube Pricing and Hole Configurations

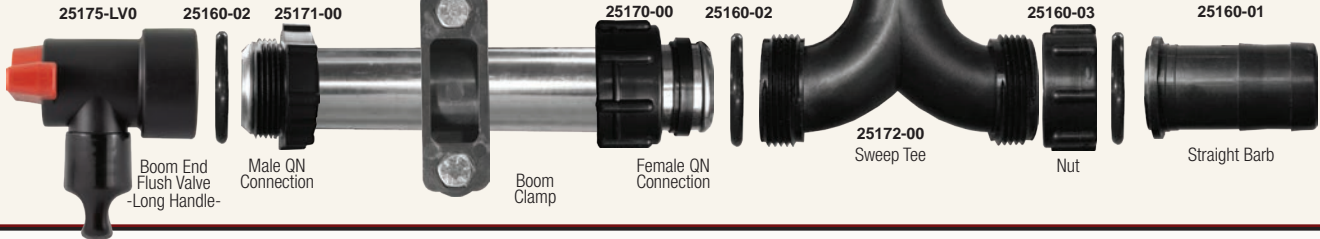
CANADA USA
1 (833) 242-4121 1 (877) 968-7695
info@wilger.net WilgerESC@WilgerESC.com

Example of a few possible configurations
of 1" Quick Nut SST Fittings

SST Boom to Boom
End Flush Valve

Sweep Tee to SST Boom

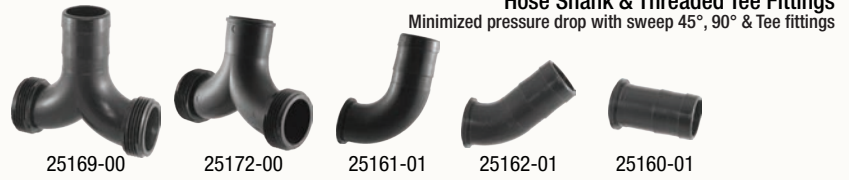
Sweep Tee to Hose Barb



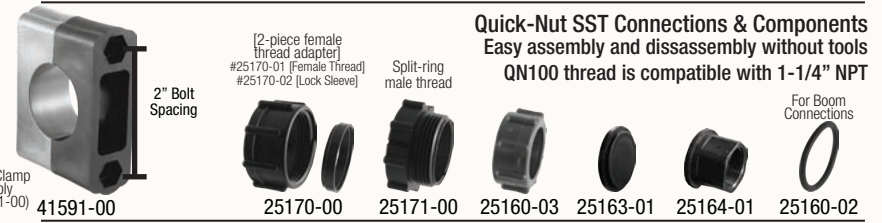
Quick-Nut 100 (QN100) SST Fittings - Use with 1" Quick-Nut Stainless Steel Boom Tube (1.315" O.D.)

1" Hose Shank	
25166-01	QN100 Hose Barb, QN100 x 1" Hose, Straight.....\$3.67
25167-01	QN100 Hose Barb, QN100 x 1" Hose, 90° Sweep.....\$4.97
25168-00	QN100 TEE, 1" Hose Barb x QN100-M x QN100-M, Sweep.....\$9.23
1-1/4" Hose Shank	
25160-01	QN100 Hose Barb, QN100 x 1-1/4" Hose, Straight.....\$3.67
25161-01	QN100 Hose Barb, QN100 x 1-1/4" Hose, 90° Sweep.....\$4.97
25162-01	QN100 Hose Barb, QN100 x 1-1/4" Hose, 45° Sweep.....\$4.97
25169-00	QN100 TEE, 1-1/4" Hose Barb x QN100-M x QN100-M, Sweep...\$9.23
1" QN SST Sweep Tee	
25170-00	QN100 Adapter, Female Thread End, QN100-F x QN100 SST.....\$4.46
1" QN SST Tube End Adapters (1.315" O.D.)	
25171-00	QN100 Adapter, Male Thread End, QN100-F x QN100 SST.....\$2.38
41590-00	Boom Mount Clamp, Half, for 1.25" O.D. Tube.....\$2.42
1" QN SST Nut, End Caps & O-Rings	
25160-03	QN100 Nut, QN100-F Thread.....\$2.55
25163-01	QN100 Plug, QN100 x Plug Cap.....\$2.03
25164-01	QN100 Adapter, QN100 x 3/4" NPT-F.....\$5.14
25160-02	QN100 O-ring, #219 (for QN100 Fitting Joints), FKM.....\$0.69
25160-V2	QN100 O-ring, #219 (for QN100 Fitting Joints), VITON®.....\$2.20
25172-00	QN100 TEE, QN100 x QN100-M x QN100-M, Sweep.....\$9.23
Boom Mount Clamps - Two (2) clamp halves are normally required.	
41591-00	Boom Mount Clamp, Half, For QN100 SST (1.315" O.D.).....\$2.42
Boom End Flush Valves (BEFV) & BEFV Components	
25175-V0	QN100 Flush Valve, Boom End, Compact Handle.....\$27.41
25175-LV0	QN100 Flush Valve, Boom End, Long Handle.....\$27.41
25176-V0	1" NPT-F Boom End Flush Valve, Compact Handle.....\$32.52
25176-LV0	1" NPT-F Boom End Flush Valve, Long Handle.....\$32.52
25137-00	QN100 Bushing Adapter, QN100-M x 1" NPT-F.....\$3.19
25137-V0	QN100 Bushing Kit, c/w VITON® O-ring, QN100-M x 1" NPT-F...\$5.38
25175-10	Flush Valve Cap, Replacement for any BEFV.....\$1.64
25175-11	BEFV Repair Kit, O-ring kit (2 Valves), VITON®.....\$12.28
25175-03	BEFV Replacement Handle, Compact Size.....\$2.98
25175-13	BEFV Replacement Handle, Long Size (1-1/4").....\$2.98
BEFV & Fittings for Case Thin Wall Steel (TWS) Booms	
25160-04	TWS Seal, Square-ring, FKM, #209.....\$1.47
41400-01	TWS Boom End Thread, Left & Right Thread Halves.....\$4.63
41400-02	TWS Boom End Thread, Binding Ring (order with 41400-01).....\$2.50
41400-03	TWS Nut, TWS-F, use with QN100 Fittings.....\$2.59
41400-04	TWS Boom End Thread Adapter, TWS-M, Left Thread.....\$2.40
41400-05	TWS Boom End Thread Adapter, TWS-M, Right Thread.....\$2.40
41401-01	TWS Coupler, TWS-F x QN100-F (1-1/4" NPT-F Compatible).....\$5.69
41402-V0	TWS Boom End Flush Valve, Compact Handle.....\$27.41
41402-LV0	TWS Boom End Flush Valve, Long Handle.....\$27.41
41403-00	TWS Bushing Adapter, TWS x 1" NPT-F.....\$3.19
41403-V0	TWS Bushing Adapter Kit, TWS x 1" NPT-F, c/w VITON® O-ring...\$5.38

Hose Shank & Threaded Tee Fittings



Quick-Nut SST Connections & Components



NEW LONGER HANDLE VERSION

Longer handled BEFV are available. Handles can retrofit onto existing flush valves.

25175-LV0 25176-LV0

Case TWS VERSION 41402-LV0

Compact Handle

25175-V0 25176-V0 25137-00 25175-10

Boom End Flush Valves & Adapters

Compact valve for flushing boom sections
Replacement & Retrofit Handles Available
Fits QN100 or 1" NPT-M
25175-13 Long Handle
25175-03 Compact Handle

CASE Thin Wall Steel (TWS) Boom End Flush Valve & Adapters

Fits CASE TWS thread or 1" NPT-F with bushing
Compact valve for flushing boom sections

41400-03 41401-01 41403-00 25160-04

Adapts 1" NPT-M to TWS Male Thread
For TWS Boom Connections [For Viton, order 25160-V4]

1/2" QUICK-NUT (QN50) Stainless Steel Fluid Supply

Engineered Sprayer Boom Pipe & Fittings. Only smaller.

QN50 is 1/2" Quick Nut SST

With addition of to the 1/2" Quick-Flange 50 series (QF50), Wilger is rebranding 1/2" Quick Nut Boom Fittings to QN50. Nothing has changed but the name.

Sweep Fittings
reduce turbulence & increase flow capacity

Huge Weight Reduction
weighs 28% of sch 40 pipe
80% of aluminum
Lighter than plumbing hose

Lower Cost
compared to other pipe plumbed booms

Less Chemical Residue Build-Up
compared to hose plumbed boom

Easy Maintenance & Repair
without requiring tools or thread sealant

Less Pressure Drop
with inside diameter >0.75"

For custom boom section lengths or spacing, call or e-mail Wilger.

1/2" Quick-Nut Stainless Steel Tubing & QN50 Fittings

Contact Wilger For Custom Boom Tube Pricing and Hole Configurations
CANADA USA
1 (833) 242-4121 1 (877) 968-7695
info@wilger.net WilgerESC@WilgerESC.com

Example of a few possible configurations of QN50 Boom Fittings

No wrenches or other tools required for any maintenance or installation.



QN50 Fittings & Components - Use with 1/2" Quick-Nut Stainless Steel Tubing (0.840" O.D.)

QN50 x 1/2" Hose Shank Fittings		
25120-01	QN50 Hose Barb, QN50 x 1/2" Hose, Straight.....	\$3.31
25122-01	QN50 Hose Barb, QN50 x 1/2" Hose, 90° Sweep	\$4.47
25124-01	QN50 Hose Barb, QN50 x 1/2" Hose, 45° Sweep	\$4.47
QN50 x 3/4" Hose Shank Fittings		
25121-01	QN50 Hose Barb, QN50 x 3/4" Hose, Straight.....	\$3.31
25123-01	QN50 Hose Barb, QN50 x 3/4" Hose, 90° Sweep	\$4.47
25125-01	QN50 Hose Barb, QN50 x 3/4" Hose, 45° Sweep	\$4.47
QN50 Sweep Tee Fittings		
25128-00	QN50 Threaded TEE, QN50-M x QN50-M x QN50-M	\$8.31
QN50 O-rings, Nuts & End Caps		
25120-02	QN50 O-ring, #116 (for QN50 Fitting Joints), FKM	\$0.55
25120-V2	QN50 O-ring, #116 (for QN50 Fitting Joints), VITON®	\$2.39
25120-03	QN50 Nut, QN50-F Thread (3/4" NPT Compatible)	\$2.29
25131-01	QN50 Plug, QN50 x Plug Cap	\$1.83
25127-01	QN50 Adapter, QN50 x 1/4" NPTF	\$4.62
1/2" Boom Clamp (0.84" O.D.)- Two (2) clamp halves are normally required.		
41580-00	Boom Mount Clamp, Half, for QN50 SST (0.84" O.D. Tube)	\$2.18
QN50 Tube End Adapters (0.840" O.D.)		
25129-00	QN50 Adapter, Female Boom End Adapter, QN50-F x QN50 SST	\$4.01
25130-00	QN50 Adapter, Male Boom End Adapter, QN50-M x QN50 SST	\$2.14

Hose Shank & Threaded Tee Fittings

Minimized pressure drop with sweep 45°, 90° & Tee fittings



QN50 Connections & Components

Easy assembly and disassembly without tools
QN50 thread is compatible with 3/4" NPT



Stainless 1/4" Bolt-Mount Boom Clamps (1" & 1/2" QN SST)

(Compatible with #41580-00, #41590-00, #41591-00 Boom Clamps)

40553-SS	Clamp, 1" Square Tube x Three Hole, 1/4" Bolt-Mount	\$24.38
40554-SS	Clamp, 1-1/4" Square Tube x Three Hole, 1/4" Bolt-Mount.....	\$24.38
40555-SS	Clamp, 1-1/2" Square Tube x Three Hole, 1/4" Bolt-Mount.....	\$24.38



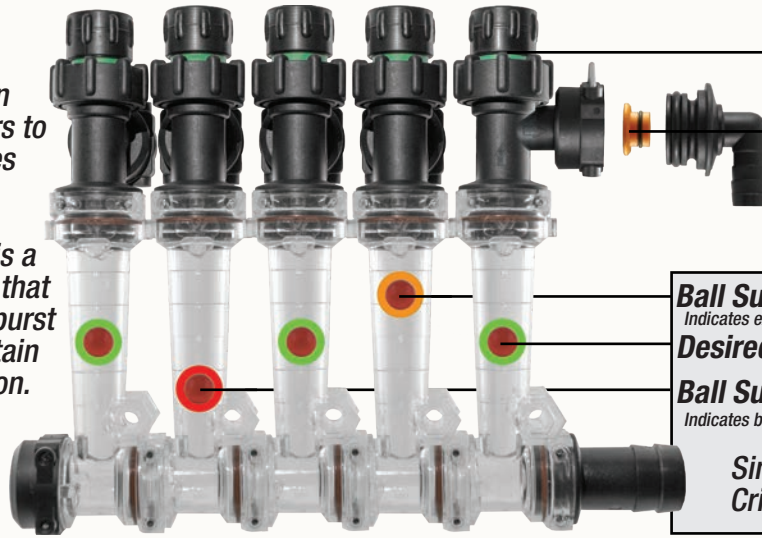
Wilger Visual Ball Flow Indicators

See Any Application Accurately, Even When You Can't See Your Outlets.

For the Full Flow Indicator Brochure, visit www.wilger.net

Flow Indicators are used on Planting Equipment & Sprayers to illustrate any flow blockages (or overages).

Without using electronics, it is a simple set-up-and-go system that ensures you can see plugs or burst lines, ensuring you can maintain a consistent liquid application.



Manual On/Off Check Valves
Easy to turn off for maintenance or convert equipment to mid-row banding

Larger Metering Orifices
Easier handling & cleaning

Consistent Metering & Easy Cleaning

Ball Suspended Higher
Indicates excess flow or leak

Desired Flow

Ball Suspended Lower
Indicates blockage or plug

Simple Operation. Critical Feedback.

Example Flow Indication
Overlay Colors for visual purposes only

Ball Flow Indicator Columns, Assemblies & Kits

For custom assemblies or kits, contact Wilger. CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

Required Flow Indicator Column Storage

Wilger Flow Indicator columns are made from a specialty UV stabilized compound (TPX™) that maximizes chemical resistance, allowing it to be used for a wide range of chemical applications. As with any plastic, UV exposure degrades the flow indicator columns. To maximize flow indicator column clarity, completely cover the flow indicator columns from UV exposure (sun/etc.) when not in use.

PRO TIP: Hassle-Free ORS Assembly

When assembling any Flow Indicator or O-ring Seal (ORS) components, using a touch of lubricant (e.g. liquid silicone) on O-rings makes assembly and maintenance easy.

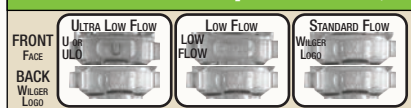
Manifold Feed Ball Flow Indicators

For monitoring many lines from a single feed (i.e. Liquid fertilizer kits for a planter)

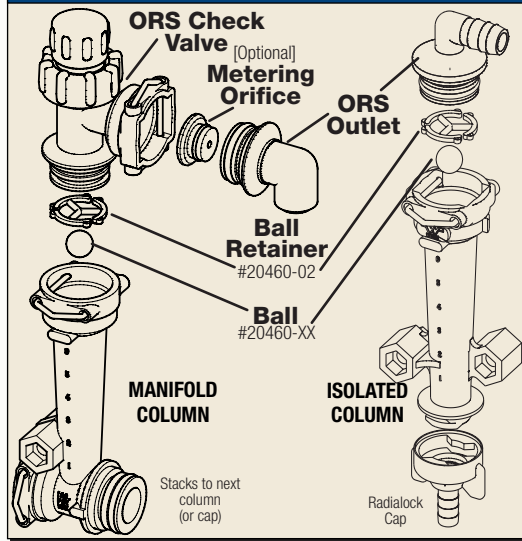
Column Model	Kit	Part # & MSRP
Ultra Low Flow 0.01-0.24 us gpm	FKM Kit	20475-00 \$27.72
	Body Only	20475-01 \$17.12
Low Flow 0.05-0.65 us gpm	FKM Kit	20470-00 \$27.72
	Body Only	20470-01 \$17.12
Standard Flow 0.07-2.7 us gpm	FKM Kit	20460-00 \$27.72
	Body Only	20460-01 \$17.12

*MANIFOLD KITS INCLUDE: Flow Indicator Body, Ball Retainer (#20460-02), O-ring seal (#20460-03), 2x U-clips (#20460-04), Green Ball (#20460-08), Red Plastic Ball (#20460-07), Red Glass Ball (#20460-06), 1/2" Stainless Ball (#20460-05)

How to Tell Columns Apart? Check the top.



EXAMPLE FLOW INDICATOR ASSEMBLY



Isolated Feed Ball Flow Indicators

For monitoring individual lines (i.e. Squeeze Pump)



Column Model	Kit	Part # & MSRP
Low Flow 0.05-0.65 us gpm	Isolated Kit	20490-00 \$21.78
	Body Only	20490-01 \$13.70
Standard Flow 0.07-2.7 us gpm	Isolated Kit	20480-00 \$21.78
	Body Only	20480-01 \$13.70

*ISOLATED KITS INCLUDE: Flow Indicator Body, Ball Retainer (#20460-02), U-clip (#20460-04), Green Ball (#20460-08), Red Plastic Ball (#20460-07), Red Glass Ball (#20460-06), 1/2" Stainless Ball (#20460-05)

Flow Indicator Column Specifications*	
Max Operating Pressure:	100 PSI (7 BAR)
Max Metered Flow Rate:	Up to 8.0 US gpm
Max Operating Temperature:	185°F / 85°C
O-Ring Seal Materials:	FKM or Viton®
U-clip Material:	Stainless Steel (302)
ORS Fitting Material:	Glass-Reinforced Polypropylene
Flow Column Material:	TPX™ (Polymethylpentene)

Flow Indicator Components & Balls

For flow indicator ball selection, refer to the chart below, or use the calculators at www.wilger.net.

PRO TIP: Using two balls simultaneously - Helps cover changes in flow & speed

If a lighter ball suspends too high, try using the next heavier ball below, to cover changes in application rates or speeds.

Typical* Operating Ranges for Flow Indicator Balls (US Gal/Min)

Ball Description & Color	Part #	Flow Indicator Columns & Flow Ranges			MSRP
		Ultra Low Flow	Low Flow	Standard Flow	
Orange Polypropylene Ball	20460-13	0.01-0.04	0.05-0.12	0.07-0.25	\$0.90
Green Polypropylene Ball	20460-08	0.01-0.04	0.05-0.12	0.07-0.25	\$0.90
Red Celcon Ball	20460-07	0.02-0.06	0.06-0.16	0.10-0.35	\$0.90
White Celcon Ball	20460-18	0.02-0.06	0.06-0.16	0.10-0.35	\$0.90
Pink Celcon Ball	20460-14	0.02-0.06	0.06-0.16	0.10-0.35	\$0.90
Red Glass Ball	20460-06	0.06-0.13	0.12-0.26	0.21-0.72	\$0.90
1/2" Stainless Steel (302) Ball	20460-05	0.13-0.24	0.18-0.65	0.40-1.70	\$1.88
7/16" Stainless Steel (302) Ball	20460-10	n/a	n/a	1.00-2.70	\$2.02

*Density/Viscosity of liquid used can effect operating range. In very dense liquids, balls may float.



O-Ring Seal (ORS) Fittings & Components

Designed for Powerful Liquid Handling Solutions

For the Full Flow Indicator Brochure, visit www.wilger.net

NEW ORS to ORS Check Valve Bodies			
Check Valve Style	90°	Straight	MSRP
Dia. Check Valve	20550-00	20555-00	\$10.04
[10 PSI] Manual ON/OFF	20551-00	20556-00	\$11.55
[4 PSI] Manual ON/OFF	20551-P4	20556-P4	\$11.55
Air-Off Operated	20552-00	20557-00	\$19.09
PWM/no-nut	20553-00	20558-00	\$6.00



NEW ORS to CJ Cap Check Valve Bodies		
Check Valve Style	90°	MSRP
Dia. Check Valve	20560-00	\$8.19
[10 PSI] Manual ON/OFF	20561-00	\$9.70
[4 PSI] Manual ON/OFF	20561-P4	\$9.70
Air-Off Operated	20562-00	\$17.24
PWM/no-nut	20563-00	\$4.15

O-Ring Seal (ORS) Hose Barb, Push-in Tube & Threaded Fittings

All ORS Components fit into Wilger Ball Flow Indicator Columns & Fittings

ORS Hose Barb Fittings

Straight ORS Hose Barbs		
1/4"	20500-00	\$3.52
3/8"	20501-00	\$3.52
1/2"	20502-00	\$3.52
3/4"	20503-00	\$3.52
1"	20504-00	\$3.87

90° ORS Hose Barb		
3/8"	20511-00	\$3.52
1/2"	20512-00	\$3.52
5/8"	20514-00	\$3.52
3/4"	20513-00	\$3.52
1"	20515-00	\$3.87



New Outlet Adapter

The new ORS to Square Lug adapter adapts to any square lug nozzle cap (e.g. Teejet/Hypro/Varitarget) that might be used in liquid fertilizer kits for even more options.



Push In Tube & Threaded Fittings

90° Push-In Tube ORS Outlets		
1/4"	20516-00	\$6.20
5/16"	20528-00	\$6.89
3/8"	20517-00	\$6.89

Straight Push-In Tube Outlets		
1/4"	20506-00	\$6.20
5/16"	20508-00	\$6.89
3/8"	20507-00	\$6.89

Other ORS Outlets		
90° 1/4" NPT-F	20518-00	\$3.52
1/4" NPT-F	20519-00	\$3.52
ORS x Sq. Lug	20549-00	\$4.16



PRO TIP: Lubricate when assembling ORS fittings

When assembling any flow indicator or O-ring seal (ORS) components, using a touch of lubricant (e.g. liquid silicone) on the O-ring makes assembly and maintenance easy.

PRO TIP EXAMPLE: O-ring Seal Hose & Tube Menders/Couplers/Reducers

3/8" Hose to 1/4" Tube Coupler: #20501-00 + #20540-00
1/4" Mender (Tube only): #20516-00 + #20540-00
3/8" to 1/4" Tube Reducer: #20517-00 + #20540-00

O-Ring Seal (ORS) End Cap & Tee Components

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

ORS Tees and Other Plumbing Fittings

Model	Part #	MSRP
ORS Strainer [50 Mesh]	20576-00	\$14.51
Replacement Strainer Only [50 Mesh]	20576-02	\$5.75
90° ORS Elbow [M x F]	20520-00	\$7.46
ORS Tee w/ 1/4" NPT-F [M x M x F w/1/4" NPT]	20526-00	\$9.40
3/8" x Blind ORS Tee [Blind F x M x 3/8" NPT]	20523-00	\$7.86
3/8" NPT-F x ORS Tee [F x M x 3/8" NPT]	20524-00	\$7.86
2 Outlet ORS-F Splitter [F x F x M]	20527-00	\$9.94
1" NPT-F x ORS Tee [M x M x 1" NPT]	20525-00	\$9.40



ORS End Caps & Plugs

Model	Part #	MSRP	
ORS Male Plug	20529-00	\$3.52	
ORS Female Cap	20521-00	\$4.04	
Push-In Tube	1/4"	20540-00	\$6.89
	5/16"	20541-00	\$7.58
	3/8"	20542-00	\$7.58
NPT-M	1/4"	20530-00	\$4.21
	1/4"	20535-00	\$4.21
NPT-F	3/8"	20536-00	\$4.21
	1/2"	20537-00	\$4.21

NEW ORS Strainer



PRO TIP: Planning your manifold plumbing

- Depending on size of the manifold bank, plumb with a center-fed tee.
- Limiting stacked flow indicators ensures more consistent ball levels & pressure. [e.g. Using 5 flow columns on both sides of a tee can indicate more consistently than a bank of 10 consecutive flow indicators in a row.]
- Using 1 flow column per outlet (opener/spray tip/row) will provide the most accurate depiction of flow.

NEW O-Ring Seal Manifolds

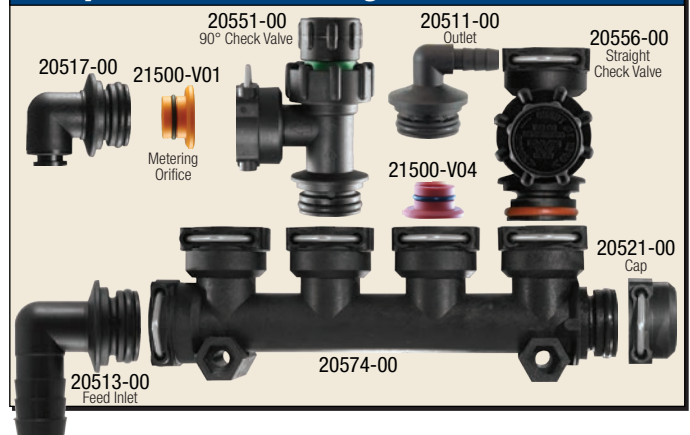
CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

A new Wilger ORS manifold that will make it even easier and cost effective to setup and manage liquid applications.

Model	O-ring	Part #	MSRP
2 Outlet Splitter	FKM	20527-00	\$9.94
	Body Only	20527-01	\$3.98
1 Outlet Manifold	FKM	20571-00	\$9.94
	Body Only	20571-01	\$3.98
2 Outlet Manifold	FKM	20572-00	\$12.14
	Body Only	20572-01	\$4.84
3 Outlet Manifold	FKM	20573-00	\$14.34
	Body Only	20573-01	\$5.70
4 Outlet Manifold	FKM	20574-00	\$16.88
	Body Only	20574-01	\$6.89



Example ORS Manifold Configurations



O-Ring Seal (ORS) Metering Orifices

Consistent & Accurate Flow Metering Orifices

For the Full Flow Indicator Brochure, visit www.wilger.net

NEW

O-Ring Seal (ORS) Metering Orifices

CANADA 1 (833) 242-4121
USA 1 (877) 968-7695

O-Ring Seal (ORS) metering orifices fit into any ORS outlets.

O-ring Seal Metering Orifices	Custom Drilled ORS Orifices		Color Coded Molded ORS Orifices		Blank Orifice	
	FKM	Viton®	003 to 007 size	01 to 03 size	FKM	VITON®
ORS Orifice Part #	21XXX-00	21XXX-V0	21500-VXXX	21500-VXXX	21000-00	21000-V0
Color	Black	Black	Color Coded	Color Coded	Black	Black
MSRP	\$5.78	\$7.59	\$4.74	\$3.89	\$0.89	\$2.70

Custom Drilled Orifices



21XXX-00

Orifice can't rust
Larger & easier to handle
O-ring seal for positive seal
Orifice orientation can't be accidentally reversed
Better accuracy for small orifice sizes

Color-Coded Molded Orifices



21500-V01

Color coded sizes make identifying orifices easy



Solution Weight (lbs/ us gallon)	Specific Gravity	Conversion Factor (conv)
7.0	0.84	0.92
8.34 (Water)	1.00	1.00
9.0	1.08	1.04
10.0	1.20	1.10
10.65 (28-0-0)	1.28	1.13
11.0	1.32	1.15
11.65 (10-34-0)	1.39	1.18
12.0	1.44	1.20

Calculating Required Flow Rate

To determine the flow rate (or application rate), use the following equations & density conversion chart:

W = Outlet Spacing (INCH)

conv = Conversion Factor based on specific gravity/weight of liquid

$$\text{GPM (per outlet)} = \frac{\text{GPA} \times \text{mph} \times \text{W} \times \text{conv}}{5940}$$

$$\text{GPA} = \frac{5940 \times \text{GPM (per outlet)}}{\text{mph} \times \text{W}}$$

EASY-TO-USE ORS orifice and ball selector calculator available @ www.WILGER.NET

Orifice Part#*	Flow Rate (US gallons/minute)							
	5PSI	10PSI	15PSI	20PSI	25PSI	30PSI	35PSI	40PSI
21009-XX	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.010
21011-XX	0.006	0.008	0.010	0.011	0.013	0.014	0.015	0.016
21013-XX	0.008	0.011	0.013	0.016	0.017	0.019	0.021	0.022
21015-XX	0.010	0.014	0.018	0.020	0.023	0.025	0.027	0.029
21500-V003	0.011	0.015	0.018	0.021	0.024	0.026	0.028	0.030
21018-XX	0.015	0.021	0.025	0.029	0.033	0.036	0.039	0.042
21500-V005	0.018	0.025	0.030	0.035	0.039	0.043	0.046	0.050
21020-XX	0.018	0.026	0.032	0.037	0.041	0.045	0.049	0.052
21022-XX	0.022	0.031	0.037	0.043	0.048	0.053	0.057	0.061
21500-V007	0.024	0.033	0.041	0.047	0.053	0.058	0.063	0.067
21025-XX	0.028	0.039	0.048	0.056	0.062	0.068	0.073	0.079
21026-XX	0.031	0.043	0.053	0.061	0.068	0.075	0.081	0.087
21027-XX	0.032	0.046	0.056	0.065	0.072	0.079	0.085	0.091
21028-XX	0.035	0.049	0.060	0.069	0.078	0.085	0.092	0.098
21500-V01	0.036	0.050	0.062	0.071	0.079	0.087	0.094	0.100
21029-XX	0.045	0.064	0.078	0.090	0.100	0.110	0.119	0.127
21031-XX	0.045	0.064	0.078	0.090	0.100	0.110	0.119	0.127
21500-V015	0.053	0.075	0.092	0.106	0.119	0.130	0.140	0.150
21035-XX	0.057	0.081	0.099	0.114	0.128	0.140	0.151	0.162
21037-XX	0.061	0.087	0.106	0.122	0.137	0.150	0.162	0.173
21039-XX	0.069	0.098	0.120	0.139	0.155	0.170	0.184	0.196
21500-V02	0.073	0.104	0.127	0.147	0.164	0.180	0.194	0.208
21041-XX	0.078	0.110	0.134	0.155	0.173	0.190	0.205	0.219
21043-XX	0.082	0.115	0.141	0.163	0.183	0.200	0.216	0.231
21500-V025	0.090	0.127	0.156	0.180	0.201	0.220	0.238	0.254
21046-XX	0.094	0.133	0.163	0.188	0.210	0.230	0.248	0.266
21047-XX	0.098	0.139	0.170	0.196	0.219	0.240	0.259	0.277
21049-XX	0.106	0.150	0.184	0.212	0.237	0.260	0.281	0.300
21500-V03	0.106	0.150	0.184	0.212	0.237	0.260	0.281	0.300
21051-XX	0.114	0.162	0.198	0.229	0.256	0.280	0.302	0.323
21052-XX	0.118	0.167	0.205	0.237	0.265	0.290	0.313	0.335
21055-XX	0.135	0.191	0.233	0.269	0.301	0.330	0.356	0.381
21500-V04	0.143	0.202	0.247	0.286	0.320	0.350	0.378	0.404
21060-XX	0.159	0.225	0.276	0.318	0.356	0.390	0.421	0.450
21061-XX	0.163	0.231	0.283	0.327	0.365	0.400	0.432	0.462
21063-XX	0.176	0.248	0.304	0.351	0.393	0.430	0.464	0.497
21500-V05	0.180	0.254	0.311	0.359	0.402	0.440	0.475	0.508
21064-XX	0.180	0.254	0.311	0.359	0.402	0.440	0.475	0.508
21065-XX	0.184	0.260	0.318	0.367	0.411	0.450	0.486	0.520
21067-XX	0.196	0.277	0.339	0.392	0.438	0.480	0.518	0.554
21500-V06	0.212	0.300	0.368	0.425	0.475	0.520	0.562	0.600
21070-XX	0.216	0.306	0.375	0.433	0.484	0.530	0.572	0.612
21073-XX	0.233	0.329	0.403	0.465	0.520	0.570	0.616	0.658

Orifice Part#*	Flow Rate (US gallons/minute)							
	5PSI	10PSI	15PSI	20PSI	25PSI	30PSI	35PSI	40PSI
21075-XX	0.245	0.346	0.424	0.490	0.548	0.600	0.648	0.693
21078-XX	0.274	0.387	0.474	0.547	0.612	0.670	0.724	0.774
21500-V08	0.282	0.398	0.488	0.563	0.630	0.690	0.745	0.797
21081-XX	0.290	0.410	0.502	0.580	0.648	0.710	0.767	0.820
21083-XX	0.318	0.450	0.552	0.637	0.712	0.780	0.842	0.901
21086-XX	0.331	0.468	0.573	0.661	0.739	0.810	0.875	0.935
21089-XX	0.347	0.491	0.601	0.694	0.776	0.850	0.918	0.981
21500-V10	0.355	0.502	0.615	0.710	0.794	0.870	0.940	1.00
21091-XX	0.372	0.525	0.643	0.743	0.831	0.910	0.983	1.05
21093-XX	0.388	0.548	0.672	0.776	0.867	0.950	1.03	1.10
21096-XX	0.416	0.589	0.721	0.833	0.931	1.02	1.10	1.18
21500-V125	0.441	0.624	0.764	0.882	0.986	1.08	1.17	1.25
21102-XX	0.461	0.652	0.799	0.923	1.03	1.13	1.22	1.30
21104-XX	0.478	0.675	0.827	0.955	1.07	1.17	1.26	1.35
21107-XX	0.518	0.733	0.898	1.037	1.16	1.27	1.37	1.47
21500-V15	0.531	0.751	0.919	1.061	1.19	1.30	1.40	1.50
21110-XX	0.547	0.774	0.948	1.094	1.22	1.34	1.45	1.55
21113-XX	0.580	0.820	1.00	1.16	1.30	1.42	1.53	1.64
21116-XX	0.608	0.860	1.05	1.22	1.36	1.49	1.61	1.72
21120-XX	0.629	0.889	1.09	1.26	1.41	1.54	1.66	1.78
21125-XX	0.694	0.981	1.20	1.39	1.55	1.70	1.84	1.96
21500-V20	0.706	0.999	1.22	1.41	1.58	1.73	1.87	2.00
21128-XX	0.723	1.02	1.25	1.45	1.62	1.77	1.91	2.04
21130-XX	0.751	1.06	1.30	1.50	1.68	1.84	1.99	2.12
21136-XX	0.841	1.19	1.46	1.68	1.88	2.06	2.23	2.38
21140-XX	0.894	1.26	1.55	1.79	2.00	2.19	2.37	2.53
21144-XX	0.927	1.31	1.61	1.85	2.07	2.27	2.45	2.62
21147-XX	0.951	1.35	1.65	1.90	2.13	2.33	2.52	2.69
21150-XX	1.02	1.44	1.77	2.04	2.28	2.50	2.70	2.89
21152-XX	1.05	1.49	1.82	2.11	2.36	2.58	2.79	2.98
21156-XX	1.10	1.55	1.90	2.20	2.46	2.69	2.91	3.11
21161-XX	1.16	1.63	2.00	2.31	2.58	2.83	3.06	3.27
21166-XX	1.21	1.71	2.10	2.42	2.71	2.97	3.21	3.43
21172-XX	1.33	1.88	2.31	2.66	2.98	3.26	3.52	3.76
21177-XX	1.41	2.00	2.45	2.83	3.16	3.46	3.74	4.00
21182-XX	1.47	2.08	2.55	2.95	3.30	3.61	3.90	4.17
21187-XX	1.56	2.21	2.70	3.12	3.49	3.82	4.13	4.41
21196-XX	1.73	2.45	3.00	3.46	3.87	4.24	4.58	4.90
21205-XX	1.87	2.65	3.25	3.75	4.19	4.59	4.96	5.30
21213-XX	2.02	2.85	3.49	4.03	4.51	4.94	5.34	5.70
21218-XX	2.11	2.98	3.65	4.21	4.71	5.16	5.57	5.96
21234-XX	2.45	3.47	4.25	4.91	5.49	6.01	6.49	6.94
21250-XX	2.83	4.00	4.90	5.66	6.33	6.93	7.49	8.00

NEW

Wilger Electronic Flow Monitoring System

A New Row-by-Row Flowmeter & Monitoring System

For the Full Flow Monitoring System Brochure, visit www.wilger.net

NEW PRECISION WILGER PRODUCT: Electronic Flowmeter (EFM) & Electronic Monitoring System

Introducing a new Row-by-Row Flow Monitoring System. It works like a charm!

The Wilger electronic flowmeter (EFM) is a service-able flowmeter designed & built specifically for agricultural chemical & liquid applications. The patented stabilizing jets maintain accuracy & consistency over a huge flow range, and it is part of the Wilger O-ring seal fitting family, so it can easily retro-fit into existing flow indicator manifolds.

Electronic Flowmeter body mates into any ORS fitting



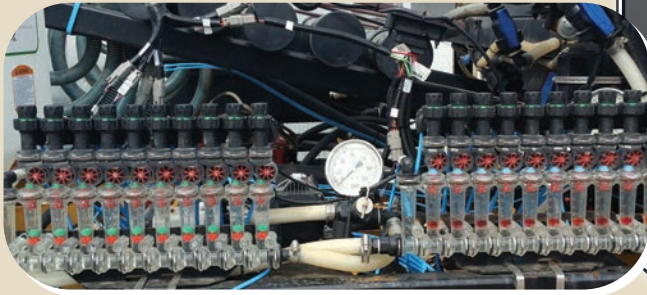
Clear TPX flowmeter body for clear visual & non-stick surface

Sensor cables simply connect into daisy-chained product nodes

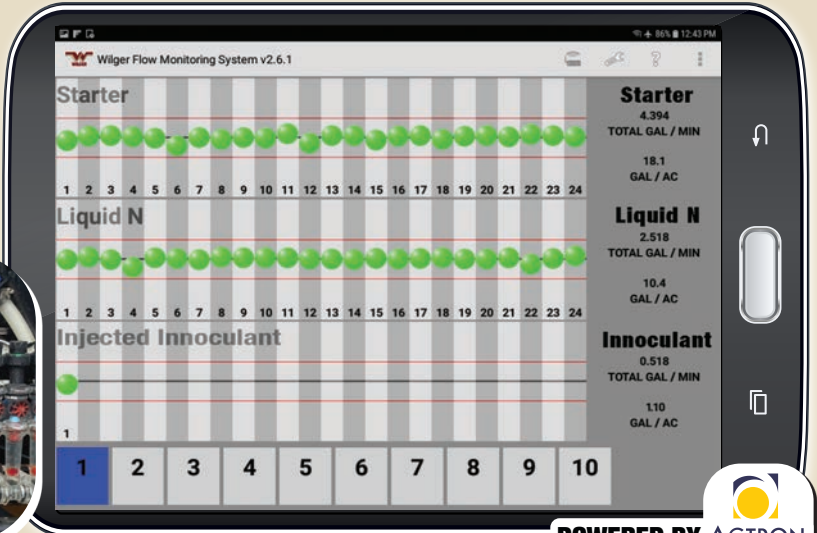
Patented Flowmeter
Canadian Patent No. 2987646
AUS Patent No. 2017376849
U.S. Patent No. Pending

Retrofitting to a EFM System is Easy!
Visual Flow Indicator to Electronic

Example [Below] shows 2 products applied on 11 rows. Both products monitored through the same EFM system.



Electronic Flow Monitoring System Highlights
Monitor up to 196 outlets, split on up to 10 sections
Monitor up to 3 Products Simultaneously
Easy To Install: Wireless WIFI to Tablet (No data req'd)
Accurately Measures Flow Rates of 0.04 - 1.53 US GPM



POWERED BY AGTRON

Required Flowmeter Storage

Wilger flowmeter bodies are made from a specialty UV stabilized compound (TPX™) that maximizes chemical resistance, allowing it to be used for a wide range of chemical applications. As with any plastic, UV exposure degrades the flowmeter housing. To maximize flowmeter longevity, it is required to completely cover the flowmeter from any UV exposure (sun/etc.) when not in use.

Keyed DEUTSCH® Connectors

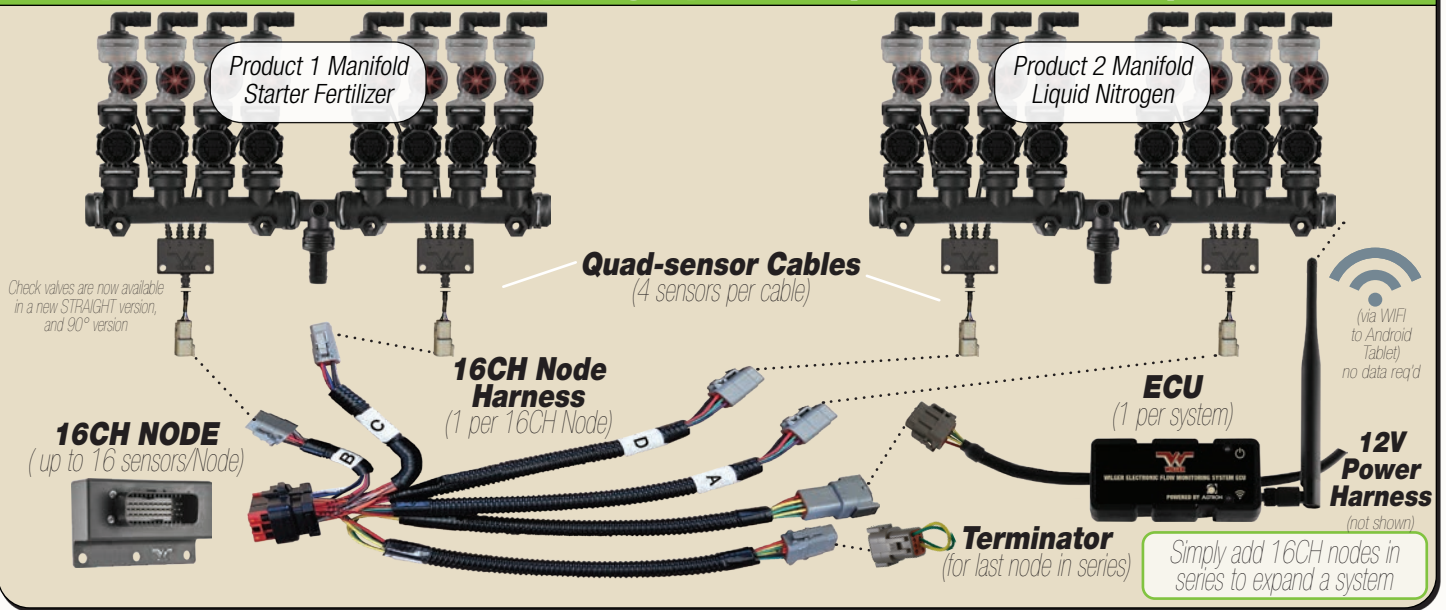
As EFM connectors are keyed connectors, they cannot be inserted in the wrong orientation, or with the wrong Wilger parts.



POWERED BY AGTRON

For this aftermarket EFM system, Wilger works with Agtron as an industry partner for tried & tested Agtron Electronic Components.

Example of an 8-row planter, applying 2 products (Starter & Fertilizer)



Wilger Electronic Flow Monitoring System Components

Row-by-Row Flowmeter & Monitoring System Components

For the Full Flow Monitoring System Brochure, visit www.wilger.net

Electronic Flowmeter Kits & Sensor Cables

Electronic Flowmeter (EFM), 4CH, 16CH, and Base ECU Kits

20580-00	Flowmeter Kit, EFM, incl. 4 JET (no sensor), up to 1.53 us gpm	\$43.66
20603-00	EFM ECU Kit (incl. ECU, 20" 12v harness, term., ant.)	\$1,834.20
20605-00	ECU TEE Splitter Kit, EFM, 8-pin, EFM (c/w terminator)	\$96.00

16CH Kits & Sensor Cables

20621-00	16CH Node Kit, EFM (c/w node, harness, 4x quad-sensor)....	\$1,058.20
20585-00	Quad-sensor Cable Assy, EFM, ~18" (for 16CH node)	\$41.80
20611-00	16CH Node & Harness Assy, EFM (no sensors).....	\$891.00

4CH Kits & Sensor Cables

20620-00	EFM, 4CH Node Kit (incl. Node, harness, 4x sensor cables).....	\$714.49
20584-00	Single Sensor Cable, 6", EFM (for 4CH node).....	\$27.12
20584-10	Single Sensor Cable, 10", EFM (for 4CH node).....	\$74.48
20608-00	4CH Node & Harness Assy, EFM (no sensors).....	\$606.00

NEW ORS Manifolds with Check Valve* and EFM Body (no inlet, outlet, caps, or sensors)

Manifold Outlets	Check Valve	Part #	MSRP
1 EFM Outlet	90°	20631-00	\$62.78
	Straight	20641-00	
2 EFM Outlet	90°	20632-00	\$118.16
	Straight	20642-00	
3 EFM Outlet	90°	20633-00	\$173.54
	Straight	20643-00	
4 EFM Outlet	90°	20634-00	\$229.24
	Straight	20644-00	

*4PSI Check Valve Options Available - Change 'XXXX-00' to 'XXXXX-P4'
For very low flow requirements (<0.1 us gpm), 4PSI check valves may be required.

Electronic Flow Monitoring System Components

Extension Harnesses & Cover Caps

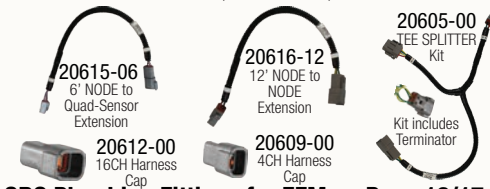
20609-00	4CH Harness Cover Cap, EFM (for unused 3-pin, 4CH)	\$12.87
20612-00	16CH Harness Cover Cap, EFM (for unused 6-pin, 16CH)	\$18.54
20615-06	Extension Harness, 16CH Harness to Sensor (6-pin), 6"	\$80.00
20615-12	Extension Harness, 16CH Harness to Sensor (6-pin), 12"	\$136.00
20616-12	Extension Harness, Universal Node/ECU to Node (8-pin), 12"	\$94.00
20616-24	Extension Harness, Universal Node/ECU to Node (8-pin), 24"	\$159.80

Component & Auxiliary Components

20580-06	EFM, Body Assy, TPX, ORS (no jets, body assy only)	\$41.16
20580-01	EFM, Body Only, TPX	\$9.95
20580-02	EFM, Module c/w O-ring (no sensor)	\$4.37
20580-08	EFM, Impeller Assembly	\$1.98
20580-10	EFM, Impeller Magnet	\$0.60
20580-11	EFM, Impeller Axle Pin	\$0.65
20580-13	EFM, O-Ring, #119, VITON® (for EFM module)	\$0.56
20581-01	EFM Jet, 0.04-0.12 us gpm, Green	\$1.87
20581-03	EFM Jet, 0.10-0.31 us gpm, Red	\$1.87
20581-05	EFM Jet, 0.18-0.98 us gpm, Light Blue	\$1.87
20581-07	EFM Jet, 0.57-1.53 us gpm, Black	\$1.87
20583-00	EFM Sensor Cable, Single w/o Connector	\$20.34
20603-01	EFM System ECU (ecu only)	\$1,470.00
20603-02	ECU Battery Harness, 20", c/w Fuse	\$255.00
20603-03	ECU Antenna (50' range)	\$36.00
20604-00	ECU Harness Terminator (8-pin)	\$73.20
20608-01	EFM, 4CH Node (no harness)	\$354.00
20608-02	EFM, 4CH Node Harness (no node)	\$252.00
20611-01	EFM, 16CH NODE (no harness)	\$540.00
20611-02	EFM, 16CH Node Harness (no node)	\$351.00

Tablet & Mount Components

20600-00	Android Tablet (Android 8.0 or newer)	CONTACT WILGER
	Wilger Electronic Flow Monitoring App	FREE
20601-00	TABLET CASE (Universal 8" Tablet)	CONTACT WILGER
20602-00	RAM@ TABLET MOUNT (Universal 8" Tablet)	CONTACT WILGER



ORS Plumbing Fittings for EFM on Page 16/17

20644-00 Four Outlet EFM Manifold Kit w/ Check Valve
Kit includes 20574-00, 4x 20580-00, 4x 20556-00

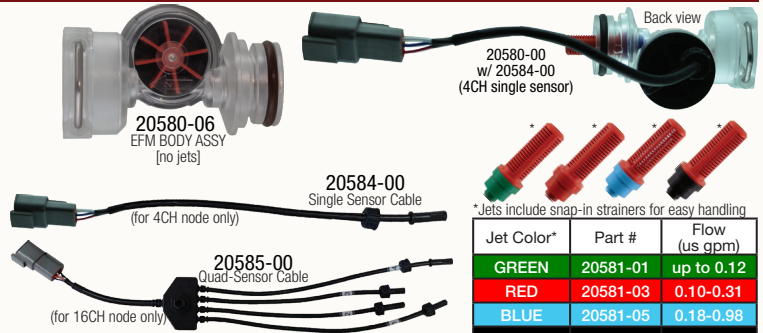
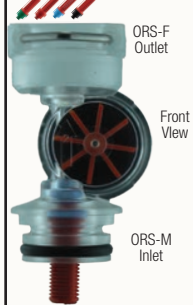
4PSI Check Valve
4PSI version available Change '00' to '-P4'

- Stack manifolds to desired total size.
- Add ORS inlet or center-fed tee
- Add ORS end-cap (2x if TEE is used)
- Add ORS outlets & metering orifice (opt.) [Included]

20581-XX EFM Jet set [1 set per EFM]

20580-00 EFM KIT

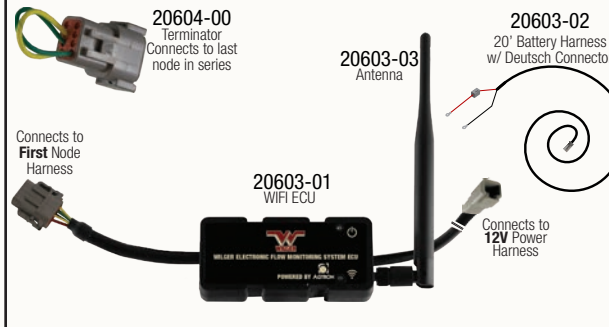
includes 4 sizes of EFM jet



*Jets include snap-in strainers for easy handling

Jet Color*	Part #	Flow (us gpm)
GREEN	20581-01	up to 0.12
RED	20581-03	0.10-0.31
BLUE	20581-05	0.18-0.98
BLACK	20581-07	0.57-1.53

20603-00 ECU BASE KIT BREAKDOWN



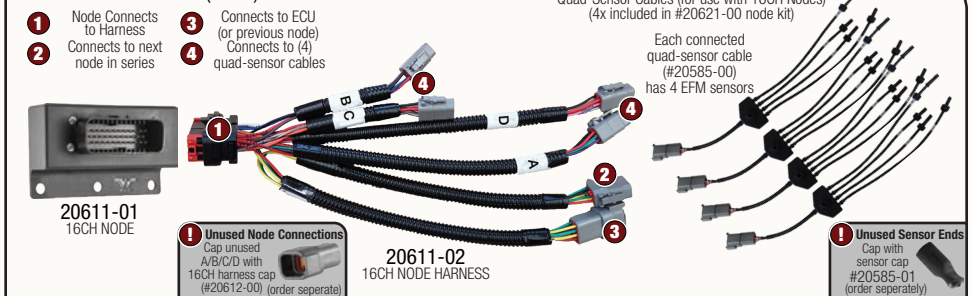
RETROFIT OPTION



20620-00 4 CHANNEL (4CH) NODE KIT BREAKDOWN



20621-00 16 CHANNEL (16CH) NODE KIT BREAKDOWN



Building Plan for your Electronic Flow Monitoring System

- As equipment & implements vary greatly, this is a simplified approach assuming the implement is fairly standard and evenly spread, with the manifold centrally located. In many cases, it is more cost effective to move manifolds from the wings of the implement to the center.
 - Order 1 ECU assembly per system. (#20603-00)
 - Add the # of outlets (including multiples for monitoring multiple products). Divide the total # of outlets by 16. Round up to nearest whole number. Order that many 16CH Node kits. (#20621-00) 4CH Node kits can also be effective for "extra" outlets in systems as needed, but 16CH node kits are typically more cost effective.
 - Order 1 EFM assembly kit (#20580-00) per outlet (incl. multiples for monitoring multiple products) Alternatively, order EFM manifold kits (#20631-00 to #20634-00) to fit your requirements for sections.
 - Order 1 ORS Outlet (Page 16) & 1 ORS Check Valve (#20551-00) per EFM body. Order manifolds & plumbing components (& end caps) suited for the implement size.
 - [Optional if metering orifice req'd] Order orifice (Page 17) for each outlet, ensure proper metering orifice size for each product/rate. Use Tip Wizard online @ www.wilger.net or the free app, to ensure proper sizing.
- For more information, start the conversation on building your EFM system with your Wilger dealer, and for more pictures/information, visit our website at: www.WILGER.NET

EFM System Checklist

<input type="checkbox"/>	1x ECU KIT per system
<input type="checkbox"/>	1x 16CH Node Kit per 16 outlets
<input type="checkbox"/>	1x Flowmeter (EFM) per outlet
<input type="checkbox"/>	1x ORS Outlet per outlet
<input type="checkbox"/>	1x ORS Check Valve per outlet
<input type="checkbox"/>	1x Inlet Feed or Tee per manifold
<input type="checkbox"/>	1x End Cap per manifold (2x if Tee'd)
<input type="checkbox"/>	Extension harnesses if req'd
<input type="checkbox"/>	1x Android Tablet

EFM VIDEO TUTORIALS - Setting up EFM App on Android Tablet

Make sure to take advantage of video tutorials on initial setup and planning of EFM system app on your Android Tablet. Videos on YOUTUBE, or accessible from www.WILGER.NET

FEATURED & NEW SPRAYER PARTS FOR 2021

New Combo-Jet Caps & Double-Down Adapters



New options for DOUBLE-DOWN spraying!
Ideal for High Volume Applications, Tough to reach targets, and making the most out of the nozzles you have on hand.



Highlight for PWM System Retrotting: Combo-Jet Nozzle Bodies for PWM

Considering retrofitting your sprayer to a PWM system?

Make sure you take a look at Combo-Jet nozzle bodies which can mount PWM solenoids, giving up to 3 nozzle swivel without the bulk. Available in Combo-Jet outlets or Square lug (Teejet/Hypro/etc).



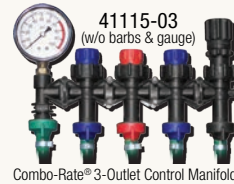
Compact Cost Effective
Universal left/right body
Fits tight boom frames
Bolt-Mount top hinge for cable management



New Combo-Rate Pre-Assembled Manifolds for estate, yard & ATV sprayers

*Need to replace your yard sprayer's control manifold?
Building your own yard or ATV sprayer?*

Combo-Rate manifolds are modular and can be expanded or modified with the ton of available Combo-Rate fittings. From pressure regulator valves, pressure gauges, to almost anything you can think of.



Super High-Flow Combo-Rate II (CRII) Nozzle Bodies

21/32" Inlet CRII Nozzle Bodies for 45% more Flow

For sprayers that are applying high rates of liquid fertilizer or chemical, Combo-Rate high flow nozzle bodies will not leave you missing out.

With the 21/32" Combo-Rate II Nozzle bodies,

SPRAY NEARLY 60 US GPA @ 15 MPH WITH A SINGLE OUTLET (& MORE IF STACKED)

41464-00
(with stacked turret, end body & nozzles)



Left/Right Reversible
Use with any CR fittings
Stacking Body for PWM + Non-PWM spraying
Slotted Inlet drains debris

New Combo-Rate Top Take-Off Turrets

Newest Top Take-Off Turret is the most compact yet
A compact turret that gives you the option all the options you need to keep things tight in your boom, with double-down spray options, with the same compatibility to any Combo-Rate nozzle bodies or fittings.

41816-00
Manual ON/OFF w/ Double-Down



41815-00
Manual ON/OFF Module



41835-00
No Nut (for PWM)



Quick Flange Sprayer Boom Fittings

Heavy Duty Boom Fittings that open up possibilities
Easy recirculating boom plumbing fittings
Compatibility with common 1" flange fittings & more
New & Awesome boom fittings coming into 2021

Easy Flange Boom End Conversion for Case TWS



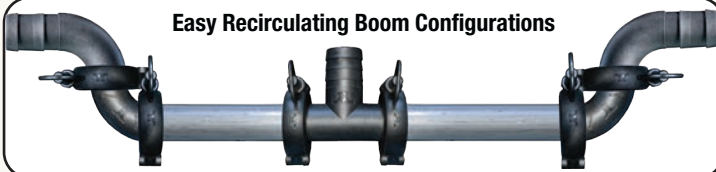
Easy Flange Boom End Conversion for QN SST



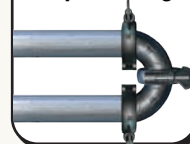
Easily Serviced Boom Ends



Easy Recirculating Boom Configurations



Compact Fittings



No More Threaded Fittings



Common Flange Compatibility



For more information on new products, visit:

www.wilger.net

Call your local Wilger Dealer, or:
[Canada] 1 (833) 242-4121
[USA] 1 (877) 968-7695

NEW LIQUID FERTILIZER PARTS FOR 2021

New O-Ring Seal Fittings & Assemblies

ORS Straight Check Valves
10 PSI
Manual ON/OFF
Check Valve,
Straight
20556-00



ORS Inline Strainer
attaches to any ORS
fitting
20576-00
Strainer Assembly



20576-02
Replacement
Strainer

1" ORS Hose Barbs



20515-00
1" Hose Barb, 90°

NEW

20504-V0
1" HB Straight
Viton



Coming
in 2021



ORS to Square Lug
Outlet for Liquid
Fertilizer Kits
20545-00

20644-00

4 Outlet EFM Manifold with new
Straight 10 PSI
Manual ON/OFF Check Valves



Available in 1 Outlet
2 Outlet
3 Outlet
4 Outlet
Stackable Manifolds

New pre-assembled Flowmeter Manifolds

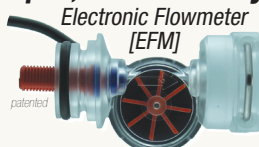
New Electronic Flowmeter manifolds with the straight check valve allow for easy ordering and building of systems.

Simply replicate each section of the implement with manifolds of the same size, cap off the ends, add a hose feed, and away you go.

Manifolds are available in 1-4 Outlet versions.

Wilger Electronic Row-By-Row Flow Monitoring System

The Simple, Trustworthy, Row-by-Row Flow Monitoring System. Works like a charm!

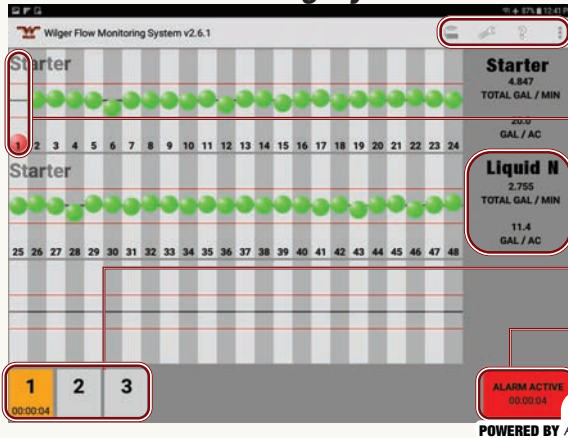


Simply enough, one of the highest compliments you can give farm equipment is "It works."
No fuss, no muss, it does the job it is supposed to do.

We are proud that for the last few years, applicators have had exactly that (and more) to say about the EFM system. The system worked when it was set up and ended up helping troubleshoot other equipment issues unrelated to the EFM system, saving unexpected downtime & costs.

With a customizable app and interface based on user input, it will quickly pay itself off in value for the farm.

The EFM sensors are now available for an after-market installation system, which uses an android tablet in the cab to monitor the flow of up to ten sections, and up to 3 products.



Simple menu and tools for setting up & customizing screens

Yellow/red balls & lines show custom alarm% thresholds.

Up to 3 different products/rates can be monitored on one EFM system at the same time.

Two Simplified Views:
Single Product View - 3 screens showing up to 72 rows
Multi-Product View: 10 sections up to 24 rows/section

Mutable Alarm button is able to alarm even if app is operating in the background

NEW Combo-Jet UR Series Sizes



We will have new sizes of the UR series (025 & 03), suitable for lower volume ultra-coarse spray for those spray applications that need it.

Check the Wilger website for the most recent charts and info as we release these tips in 2020.

U.S. Patent No. 10,603,681

Have Questions? We can help!



You can ask Wilger questions directly by phone/email, by website email, Twitter, or The CombineForums. Wilger is here to help answer any questions relating to applications with any of Wilger products.

Best of all, it's FREE.

Wilger Product Literature & Tools



Wilger provides free printed product literature, prices lists and tools. Request a copy today. All brochures are also available at www.wilger.net



Tip Wizard Updates

Tip Wizard has new features! ORS metering orifice calculator, Flow Indicator Ball Selector, and further improved Tip Wizard spray tip search.

Tip Wizard aims to lead the industry as the best spray tip calculator for broadcast applications.

WHERE TO BUY WILGER PRODUCT

To find a list of local dealers/retailers and distributors in your area, visit the WILGER.net "WHERE TO BUY" page, to easily enter your address to find local Wilger product.

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Performance for
Over 40 Years**

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Printed in Canada

Pricelist Corrections & Additions for 2021

PAGE 15: Addition - TWS Fitting Seal Adapter #25160-04 & #25160-V4

The square cut ring seal that is typically used for TWS seals has been added to page 15.

@WilgerParts
@WilgerInc

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