MATSUI

BLENDERS

EFFICIENT, PRECISE, PORTABLE BLENDING TECHNOLOGIES ENSURING QUALITY PROCESSING

JCW2-I SERIES

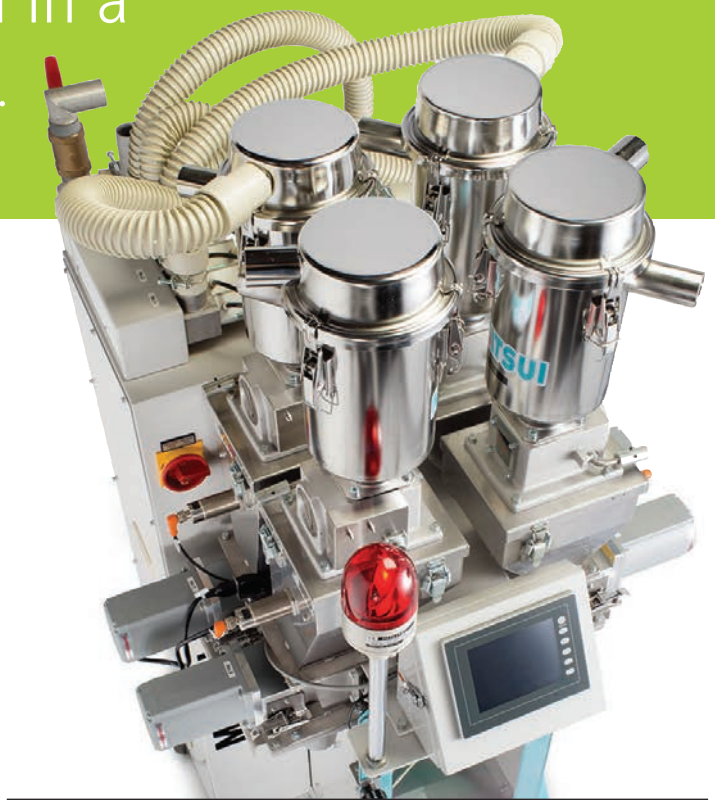
JCD-3 SERIES

JCT-SS

iplas® INTELLIGENT BLENDING SOLUTIONS. ONLY FROM MATSUI.

JCW2-i Gravimetric Blender

An extremely smart solution in a compact, easy-to-clean unit.



ACCURATE, MORE EFFICIENT BLENDING

Intelligent mixing, automatic flow optimization and resin-demand forecasting helps reduce waste up to 99% - The JCW2-i gravimetric blender combines incredibly accurate blending technology with intelligent metering and forecasting to help you maximize quality and reduce energy and waste. It senses changes, automatically adjusts, and keeps production moving as demand changes.

Take a look at what the JCW2-i offers:

Intelligent mixing – Feed optimization software, coupled with demand forecasting signals, reduce resin waste by as much as 99%. Flow is automatically regulated based on your injection mold machine's status. Minimizing material usage helps reduce cleaning time and labor when materials or colors are changed.

A lot in a smaller footprint – The JCW2-i is nearly half the footprint of previous units, while maintaining a maximum capacity of 319 lbs/h. This is accomplished by integrating measuring and conveying into the unit. The intelligence software keeps batches smaller and maximizes mixture uniformity.

Simple-to-use interface – Technology is only as good the people who have to use it. We made it simple using a straight-forward touch-screen interface.

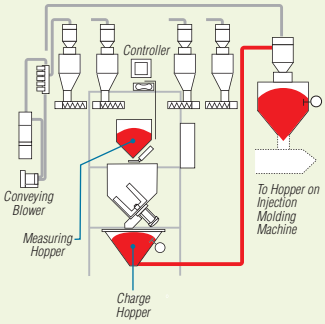
It works automatically – Once set, everything is automatic. The JCW2-i optimizes blender performance without additional input. Even with a material change, the JCW2-i automatically detects and alters measurements to accommodate the new material. Simple.

Easy maintenance – Smooth, polished hopper surfaces make cleaning fast. Dust can be swept down to the hopper bottom where materials can be completely removed. The hopper and screw can be easily removed, wiped cleaned, and re-installed fast to get the JCW2-i quickly back into production.

BLENDING/ FEEDING COMPARISON

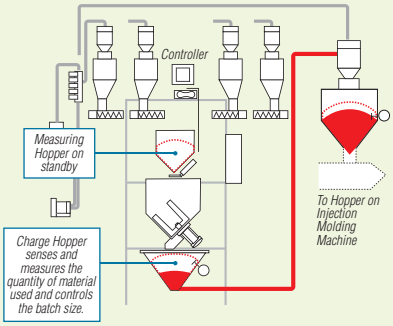
NORMAL FEED METHOD

Material discarded with each material change.



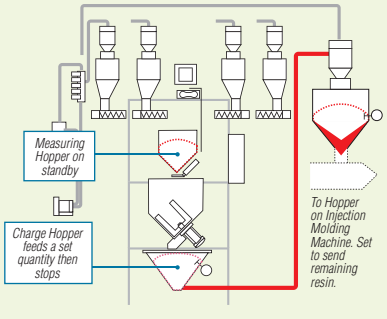
FEED OPTIMIZATION

Minimizes blended material reducing waste.



DEMAND FORECASTING

Material waste reduced to almost zero.



JCW2-i SPECIFICATIONS

MODEL JCW-I-05			APH		JB
POWER SUPPLY	VOLTAGE		AC200/200-200V 50/60HZ 3 PHASE		
	APPARENT POWER	BREAKER CAPACITY	5.15KVA 30A		
AIR SUPPLY	PRESSURE	CONSUMPTION	58 PSI(0.4MPA) 1 NL/MIN		
MAXIMUM MEASURING CAPACITY			154 LBS/H	319 LBS/H	319 LBS/H
PROCESSING CAPACITY			132 LBS/H	308 LBS/H	308 LBS/H
MEASUREMENT TYPE			GRAVIMETRIC		
MEASURING POINTS			4		
HOPPER	VOLUME	VIRGIN	5 OR 14L		
		REGRIND	5 OR 14L		
		MB	5 OR 11L		
MEASURING HOPPER	VOLUME		12L		
CHARGE HOPPER	VOLUME		CUSTOM MADE		3.5L
MEASURING RANGE		VIRGIN	SCREW FEEDER F-50 ITO 0.22 LBS OR MORE		
		REGRIND	SCREW FEEDER F-50 ITO 0.22 LBS OR MORE		
		MB	SCREW FEEDER F-40 ITO 0.11 LBS OR MORE		
			SCREW FEEDER F-25 ITO 0.0044 LBS OR MORE		
MEASURING ACCURACY[1]		VIRGIN	±0.5%		
		REGRIND			
		MB			
MATERIALS		VIRGIN	Pellets: Cut strand approx. 0.06 to 0.16 IN diameter; 0.16 IN long. Square pellets: 0.06 to 0.16 IN		
		REGRIND	Materials that Do not bridge the safety mesh (1.57 IN x 1.57 IN openings) excluding miss-cuts with an apparent specific gravity of 0.3 to 0.5		
VOLUMES PER BATCH			UP TO 2.2 LBS	UP TO 6.6 LBS	UP TO 6.6 LBS
MB RATIO			UP TO 1000X		
MIXING METHOD			APH		MIXING DRUM
		EFFECTIVE VOLUME	3L	8L	10L
OUTER DIMENSIONS (INCHES)					33W X 37.5D X 68H
WEIGHT (LBS)			308		331

Note: The figures shown here are for ordinary pellets with a bulk density equivalent to 31 to 50 lbs/ft3. Because the specified values vary depending on the physical properties of the materials used, consult Matsui when using materials likely to cause concern.

[1] Maximum performance varies depending on the material type and mixing ration. Particularly in the case of APH, conveyance and mixing performance impact the overall performance.

[2] The measurement range differs depending on the combination of feed units used, apparent specific gravity and material shape.

[3] APH-type hoppers are designed according to specifications.

AVAILABLE OPTIONS

LOWER LIMIT LEVEL SWITCH; PRIMARY SIDE MATERIAL TANK; TANK COVER FOR MANUAL FEEDING; PRIMARY SIDE MATERIAL TANK; ALARM INDICATOR LIGHT; ALARM BUZZER; SUCTION BOX (APH-TYPE FEED CUT-OFF SENSOR); CLEANING NOZZLE; LEAKAGE BREAKER; LAMINATION LIGHT; CONTROL PANEL (#D DISPLAY, USB OUTPUT FUNCTION)

APH
Sits above the machine. Removes dust and fines. Mixed material won't separate.

JB - Measuring & Mixing Combined
Sits above the machine. Simpler, more compact configuration.

Measuring Point	Model	No. 1 Feeder	No. 2 Feeder	No. 3 Feeder	No. 4 Feeder	Mixer	Batch Mass	Measuring Power	Processing Capacity
2	JCW2- -052-APH- -J	·	·			APH-3	1	70	60
2	JCW2- -052-APH- -J	·	·			APH-8	3	145	140
2	JCW2- -052-JB- -J	·	·			JB	3	145	140
3	JCW2- -053-APH- -J	·	·	·		APH-3	1	65	60
3	JCW2- -053-APH- -J	·	·	·		APH-8	3	135	135
3	JCW2- -053-JB- -J	·	·	·		JB	3	135	135
4	JCW2- -054-APH- -J	·	·	·	·	APH-3	1	60	60
4	JCW2- -054-APH- -J	·	·	·	·	APH-8	3	120	120
4	JCW2- -054-JB- -J	·	·	·	·	JB	3	120	120

The blender learns the handling capacity of the molding machine and optimizes the batch and charge quantities. When the amounts used are small, the blender reduces the batch and charge quantities to minimize the amount of wasted mixed materials when materials are changed.

JCD3 Series Volumetric Blender

The smart blender that saves time and money while eliminating waste.

THE JCD3 IS THE SMART BLENDER THAT METERS AND BLENDS PRECISE AMOUNTS OF VIRGIN RESIN, REGRIND MATERIAL, MASTERBATCH AND ADDITIVES, QUICKLY AND ACCURATELY.

Take a look at what the new JCD3 offers:

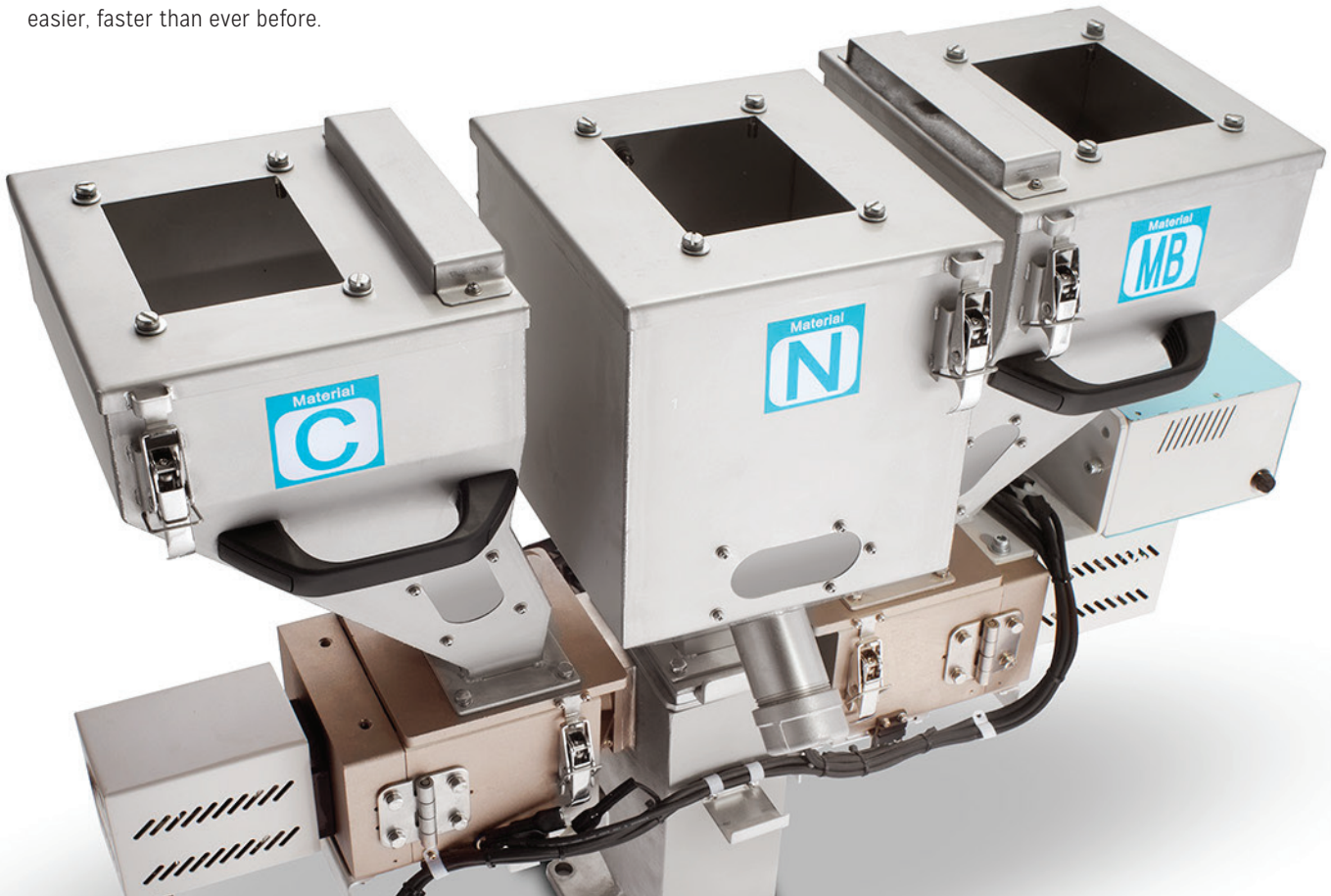
Blends by volume, not gravity – Compared to gravimetric blenders, the JCD3 prevents materials of different weights, sizes or shapes from separating in the bin, blending them completely to ensure the right mix is delivered to the molding machine.

Synchronizes measuring with blending – The JCD3 synchronizes measuring with blending, metering out materials that meet your presets, quickly and accurately.

Easy operation – The JCD3 is designed with the operator in mind, with intuitive touchpad controls that make system set up easier, faster than ever before.

Faster masterbatch changes – Moving on to the next job is as easy as lifting the cover on the upper discharge opening and blowing out any residue with an air compressor. Regrind and colorant hoppers are modular and can quickly be pulled, cleaned and reinstalled. Quick-change auger design makes cleaning and exchanging augers a snap.

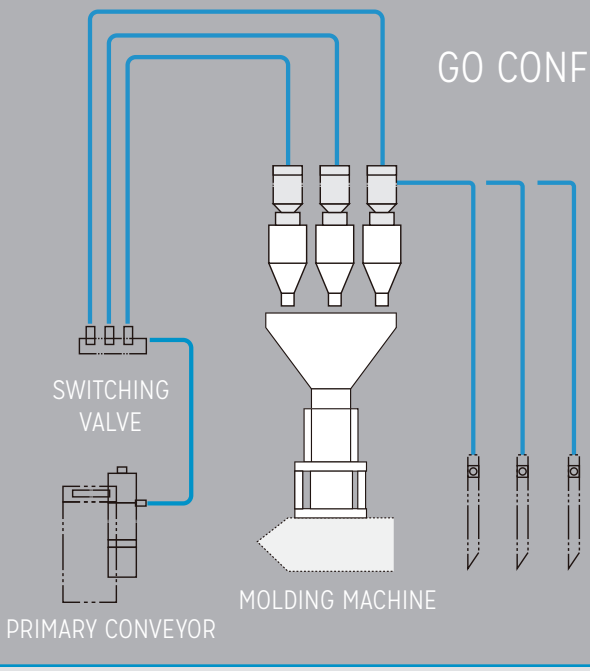
Customized to your needs – With three different auger feeders and two JCD3 models to choose from, you can be sure of getting the volumetric blender system that best meets your needs.

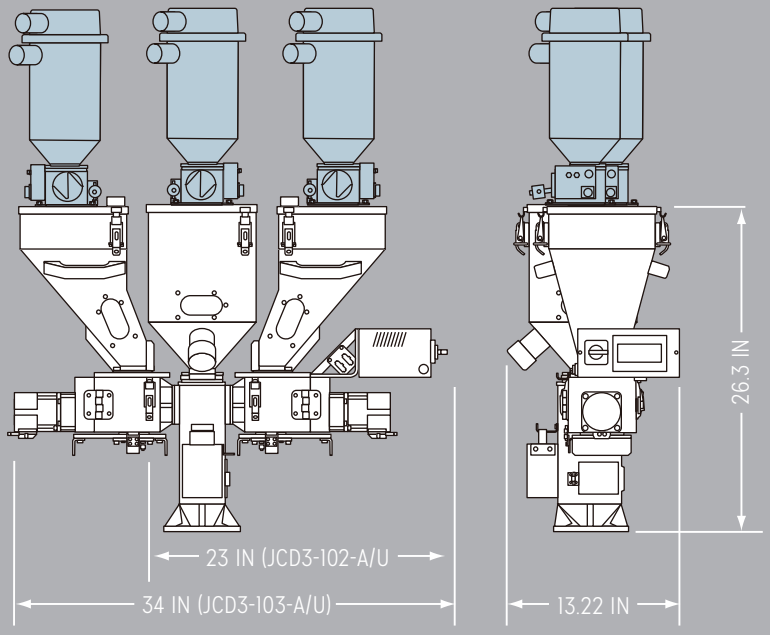


MATSUI®

THE JCD3 SERIES. THE SMART BLENDING SOLUTION.

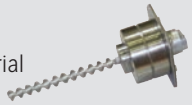
GO CONFIGURE...





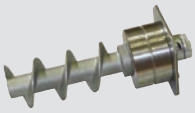
AUGER FEED OPTIONS

SF-15BL
Colorant/other material
0.9-15 lbs/h



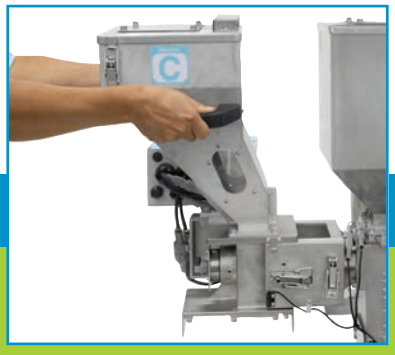
SF-40BL
Virgin & regrind
13.8-132.5 lbs/h

SF-50BL
Virgin & regrind
18-168.9 lbs/h

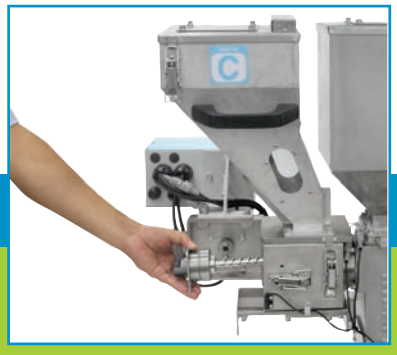


QUICKLY CLEAN AND ROTATE RESINS, REGRIND AND COLORANT

Hopper easily slides out for cleaning, so unit is back in service quickly.



Quickly pull auger for cleaning, or switch augers for different batch configuration.



Discharge port at bottom of hopper lets you quickly remove remaining material.

JCD3 SERIES SPECIFICATIONS

MODEL JCD3	JCD3-102-U	JCD-103-U
PROCESSING CAPACITY	220 LBS/H	
MEASUREMENT TYPE	VOLUME MEASURING ACHIEVED THROUGH AUGER FEEDER	
REGRIND METHOD	SYNCHRONIZED MEASUREMENT CONDUCTED THROUGH AUGER FEEDER	
MEASURING POINT	2	3
TOTAL VOLUME OF HOPPER	12L + 9L (VIRGIN + MB MATERIAL	12L + 9L (VIRGIN + MB MATERIAL
FEEDING UNIT	AUGER FEEDER SF-50 BL (VIRGIN MATERIAL) : 18 - 168.9 LBS/H AUGER FEEDER SF-40 BL (VIRGIN MATERIAL) : 13.8 - 132.5 LBS/H AUGER FEEDER SF-15 BL-36 (MB/ADDITIONAL MATERIAL) : 0.9 - 15 LBS/H	
MEASUREMENT ACCURACY[2] - MB MATERIAL	SF-15 BL-36 ± 3% (.2 lbs)	
MEASUREMENT ACCURACY - REGRIND MATERIAL	SF-50, SF-40 BL ± 13% (.02 lbs)	
SUITABLE MATERIALS[3] - VIRGIN	PELLET: STRAND CUT <0.06 TO 0.12 IN, 0.12 IN LONG OR LESS; SQUARE PELLET 0.06 TO 0.12 IN	
SUITABLE MATERIALS[3] - MB	PELLET: BEAD TYPE <0.06 TO 0.12 IN; BRIDGE-FREE MATERIAL FOR HOPPER MATERIAL WITH UNIFORM SHAPE AND SIZE	
SUITABLE MATERIALS[3] - REGRIND	SAFETY SOLUTION NETWORK (OPEN MOUTH: 1.37 IN X 1.37 IN WITH BRIDGE-FREE MATERIAL. MIXING RATION: 40% MAXIMUM	
MB RATION[4]	20 - 50	
POWER[1]	20 - 50	
APPARENT POWER	40VA	70VA
DIMENSION	23 X 13 X 26 INCHES	34 X 13 X 26 INCHES
WEIGHT	51 LBS.	68 LBS.

Figures shown here are for ordinary pellets with a bulk density equivalent to 31 to 37 lbs/ft^3. Because the specified values vary depending on the physical properties of the material used, consult with Matsui America when using other materials.

[1] Processing capacity: It will be altered according to the different material and blending proportion.

[2] Measurement precision: It is the coefficient of variation of standard deviation. It will change according to the shape of the material and density of resin.

$$\frac{\sigma_{n-1}}{\overline{X}} \times 100(\%)$$

[3] Suitable material: When using materials not described, please contact Matsui America.

[4] Regrind blend ratio: It will be changed according to one time measuring volume and time. For using regrind material exceeding 40%, please contact Matsui.

[5] Color master batch material rate: If using MB material 50 times greater than normal, please contact Matsui America.

[6] Measuring value: Please contact Matsui for measurements outside of the ranges indicated.

AVAILABLE OPTIONS	ALARM LIGHT, ALARM BUZZER, LOWER LEVEL ALARM, ALARM OUTPUT SIGNAL, MATERIAL LOADING SYSTEM, TANK LID COVER

JCT-SS Volumetric Blender

A compact volumetric-type blender that uses synchronous measuring to help reduce waste.

Take a look at what the JCT-SS offers:

No blender required – The high-performance JCT-SS blends main resin and regrind materials per the desired compounding ratio, while at the same time conveying resin to the hopper.

Simple-to-use interface – The control panel allows you to quickly and easily set the compounding ratio. And it can memorize up to 10 different ratios, so you simply select the ratio you need for that project.

Easy maintenance – Unused materials can be removed from the bottom and the screw feeder can be removed in a single step.

Screw feeder maintenance.

JCT-SS SPECIFICATIONS

MODEL JCT-SS			
POWER SUPPLY	VOLTAGE		AC200/200V 50/60HZ SINGLE PHASE
	APPARENT POWER		0.2 KVA
MAXIMUM MEASURING POWER			132-264 LBS/H
MEASUREMENT TYPE			VOLUMETRIC
MEASURING POINT			2
HOPPER	VOLUME	VIRGIN MATERIALS	55 LITERS
		REGRIND MATERIALS	55 LITERS
MEASURING ACCURACY	VIRGIN MATERIAL		1.10-1.98 LBS MEASURING ±2-3%
	REGRIND MATERIAL		0.22-1.10 LBS MEASURING ±6-13%
SUPPLY METHOD OF MATERIAL	NATURAL MATERIAL		MODEL SF50S SCREW FEEDER
	MASTER BATCH MATERIAL		
	REGRIND MATERIAL		
VOLUME PER BATCH			1.1-7.7 LBS
MIXING METHOD			SYNCHRONOUS MEASURING & FEEDING METHOD
CONNECTION DIAMETER OF CONVEYING HOSE			1.5 IN (EASY COUPLER)
WEIGHT			138 LBS

AVAILABLE OPTIONS	LOWER LIMIT LEVEL SWITCH (NATURAL MATERIAL, REGRIND MATERIAL); UPPER LIMIT LEVEL SWITCH (REGRIND MATERIAL); ALARM INDICATOR LIGHT (REVOLVING LIGHT); ALARM BUZZER; RECEIVING HOPPER INSTALLING BOARD.

JSV Regrind Ratio Valve

Ratio valve uses a programmable timer to alternate between two types of material.

Take a look at what the JSV offers:

Easy to install – Virgin, regrind and other materials are blended by specified ratio. Timer alternates valve. Maximum 20 seconds per side.

Compact and convenient – It's size and simplicity makes it a smart, economical ratio valve. It can be easily installed to a pole or any other convenient location.

Easy to use – Settings can be checked with a quick glance at the unit. Unit is electronically controlled to ensure reliable operation over extended periods.

JSV REGRIND RATIO VALVE

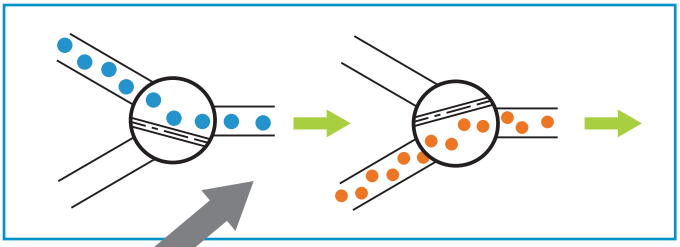
Front

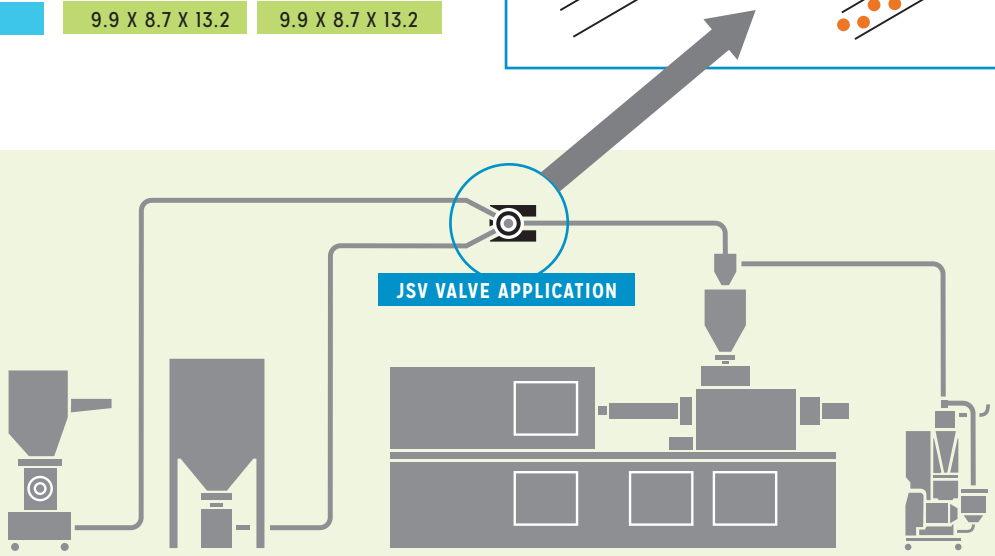
Back

SPECIFICATIONS

REGRIND RATIO VALVE	JSV-38	JSV-50
PORT SIZE	1.5" Ø	2.0" Ø
REQUIRED AIR PRESSURE	50-70 PSI	50-70 PSI
DIMENSIONS (INCHES)	9.9 X 8.7 X 13.2	9.9 X 8.7 X 13.2

JSV Valve Application





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