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THE “B” SERIES GUNS

These are our MID range guns. They include the **BBS** and **BRP** in both HVLP and Conventional forms. Also in this series are the **K1/SX** reduced pressure hybrid, and the **ECO/SX HVLP** guns. The SX guns have drop forged gun bodies while the BBS and BRP are cast bodies. All have stainless steel wetted parts.

The **K1/SX** is a reduced pressure hybrid gun sprayed at about 30 psi and has a purple gun body. This gun combines the best of conventional guns with the best of HVLP guns. HVLP guns run at about 10 psi and give 65% transfer efficiency; but have a slow production rate. Conventional guns on the other hand work at up to 60 psi with a high production rate and very high quality of atomization. The down side of the conventional gun is that it gives only about 30% transfer efficiency. This gun combines the best of both and can be used for all but the thinnest of coatings. All of our guns use much less air than competitive guns; this gun uses 5 to 6 cfm. The gun comes only as a gravity gun in a carry case with three needle/nozzle set -ups.

The **ECO/SX HVLP** is a high volume low pressure spray gun with a 4 to 1 internal pressure reduction and a purple gun body. HVLP guns are required to produce no more than 10 psi at the nozzle. A 4 to 1 reduction gun would need 40 psi into the gun to get 10 psi out. Calculating pressure loss in the air hose with this gun you normally do not set the regulator higher than 45 psi. The ECO/SX is one of the very best HVLP guns on the market today. Its quality of atomization is by far the best available. HVLP guns are slower than Hybrid guns to maintain the same or close to the same quality of finish, because of the low pressure. These guns, also because of the low pressure, cannot spray as thick a coating as a conventional or even a hybrid gun. While other HVLP guns can use as much as 25 cfm at 60 psi; this gun uses only 5 cfm at 40 psi. The ECO/SX comes only as a gravity gun in a carry case with three needle/nozzle set -ups.

The **BBS HVLP** and **BRP HVLP** are the lower price point forms of ECO gun. These guns have most of the qualities of the Legend series gun but in a less costly silver gun body. This is a 2 to 1 air reduction gun so 20 psi in equals 10 psi out. Again with air loss in the hose the regulator should not be set over 25 psi. These come in three forms; the gravity gun called BBS HVLP, the production gun called BRP HVLP and the cup gun called BRP/I HVLP. As with all HVLP guns; because of the low pressure, these do not work well as siphon guns-a pressure cup is much better but more costly.

The final guns in this series are the **BBS** and the **BRP.** These guns are Conventional air spray guns they also have a silver gun body. This is the old way of spraying, they give great atomization and production speed but with a lot of over spray. Conventional guns have a transfer efficiency of only about 30%. In today’s market they are best used with glues and other very thick coatings. But because of their low price this type of gun is still very common. As with the HVLP version above they come in gravity (BBS), production (BRP), and cup (BRP/I) form. Unlike the HVLP guns these work well as siphon cup guns.

Production guns as the name infers are for larger jobs and are the best all around low pressure system. The gun has hoses that go to a tank or pump. The gun without a cup is very light weight,

can be turned to any angle and can get in tight spaces. The coating is pushed to the gun giving a high production speed.

Gravity guns are the best choice for smaller jobs. They are the easiest to clean out and to change colors or coatings. They have the best atomization quality and the lowest overspray. Their main disadvantage is their size profile, which makes it hard to get into some areas.

Cup guns (or cup under guns) are the most common guns found but the least efficient way to spray. You have to have more pressure to suck the coating out of the cup than necessary to atomize the coating so you always have more overspray. The cup has a center tube that is hard to clean out, plus it always leaves some coating in the bottom of the cup.

Below is a tip chart for the B Series low pressure guns, cup, gravity and production:

NOZZLE SELECTION GUIDE

	SPRAY GUN / PRODUCT	K1/SX	ECO/SX	BRP HVLP	BRI HVLP	BBS HVLP	BRP	BRI	BBS
BODY SHOP	FILLER PRIMER	1.8	/	1.7	/	2.2	1.4	2.2	1.9
	SURFACE PRIMER	1.8	1.8	1.4	/	1.9	1.2	1.9	1.7
	BASECOAT	1.4	1.4	1.2	1.9	1.4	1.2	1.4	1.4
	METALLIC BASE/WATER BASE	1.4	1.4	1.2	1.9	1.4	1.2	1.4	1.4
	CLEARCOAT	1.4	1.4	1.0	1.7	1.2	1.0	1.2	1.2
WOODWORKING	PRIMERS	1.8	1.8	1.9	/	2.2	1.7	2.5	2.2
	STAINS	1.4	1.4	1.2	1.7	1.4	1.2	1.7	1.4
	WOOD FILLER	/	/	2.2	/	/	2.2	2.5	2.5
	LACQUER	1.4	1.4	1.4	1.9	1.7	1.4	1.7	1.7
	OIL-BASED PAINT	1.8	1.8	1.7	2.2	1.9	1.4	2.2	1.9
METAL PAINTING	RUST POOF COAT	1.8	1.8	1.4	2.2	1.9	1.4	2.2	1.9
	PRIMER	1.8	/	1.7	/	2.2	1.2	2.5	2.2
	SEALER	1.8	/	1.7	/	2.2	1.2	2.5	1.9
	ENAMEL	1.4	1.8	1.4	1.9	1.4	1.2	1.7	1.4
	HAMMERED-EFFECT PAINT	1.8	/	1.9	/	/	1.9 2.5	2.5	/
	ORANGE-PEEL EFFECT PAINTS	1.8	/	2.2	/	/	2.5	2.5	/

Nozzle sizes are reccomended. See always coating material specifications before use