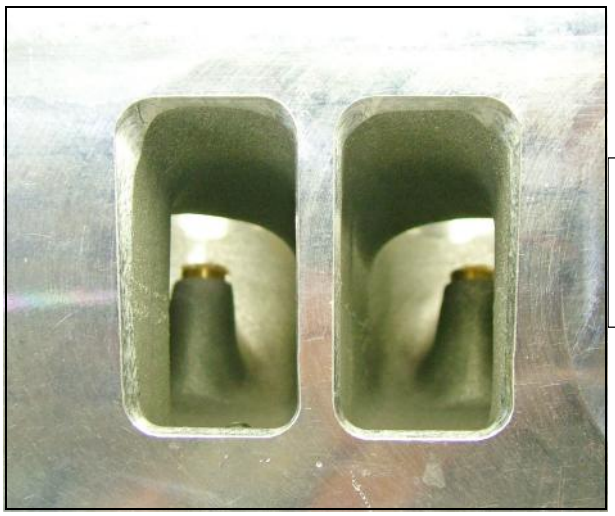
Secrets of the INDY EZ Heads

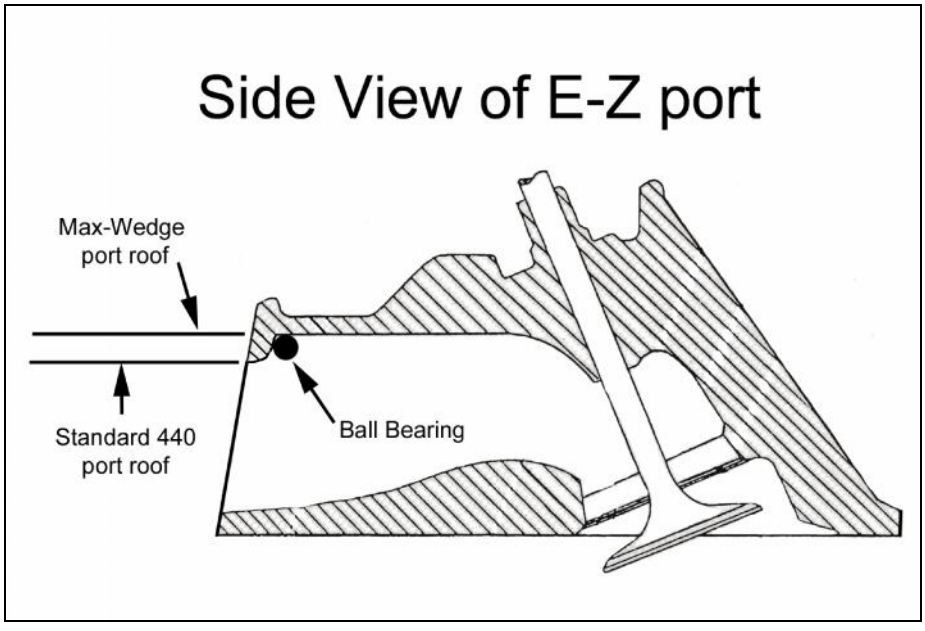
The INDY EZ heads have a unique intake port gasket face. They will accept either the standard 440 port manifolds or the Max-Wedge manifold. How, you ask, can they do that? Follow along and find out



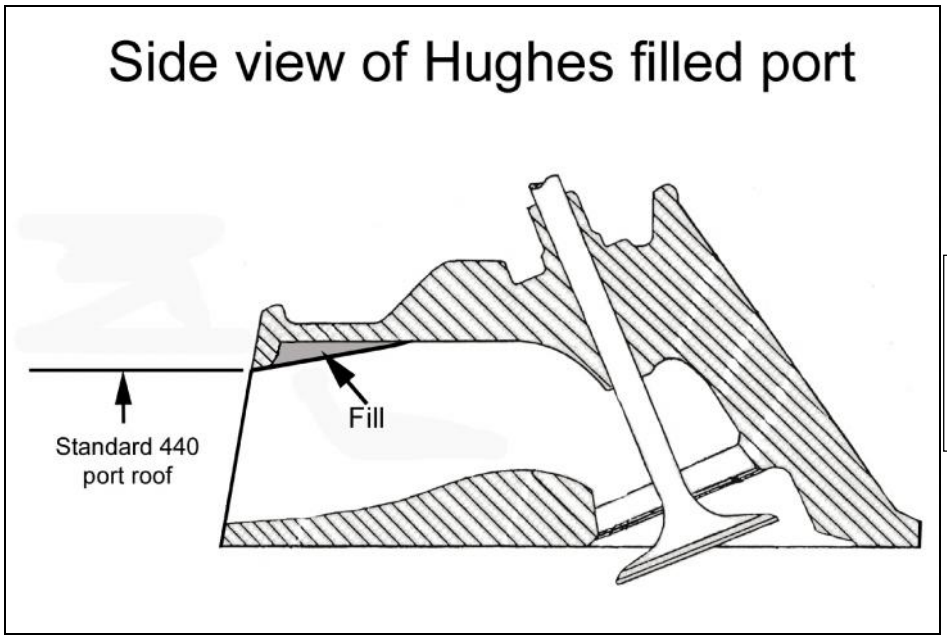
INDY 440 EZ with standard 440 port.

Why can't you see the 9/32" ball bearing in this picture?

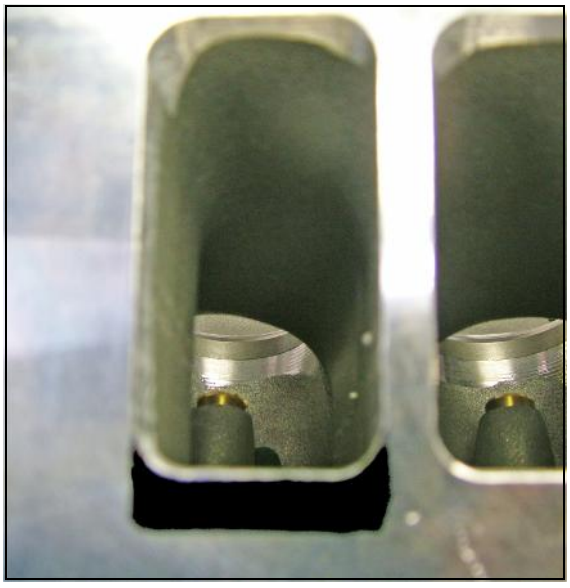
Because it is hiding behind the lip at the top of the intake port….say what?



As you can see, by the sectioned port drawing, there is indeed a lip that hangs down from the roof of the intake port on the standard 440 EZ cylinder head. This unique design allows for customers that want to use a standard port intake manifold. We fill in the area behind the lip. Read on to learn more.



We fill in the area behind the lip as part of our Super Prep and CNC Super prep work. Filling in this area results in a tremendous increase in air flow.



The dark area, shown in the photo to the left, is the lip that is removed to make a Max Wedge size port opening…we can do that if required.

The seat rings are recessed into the casting deep enough to shroud the valves, thereby reducing flow considerably at low and mid-lift openings.

Our C.N.C. machining of the chamber unshrouds the valves and increases the airflow & power output.

Standard 440 Port size
Example of our CNC Super Prepped EZ head airflow improvements

Lift	Stock intake	CNC Super Prep	Increase		Stock exhaust	CNC Super Prep	Increase
.050	41.0	42.6	+1.6		33.6	38.2	+4.6
.100	74.4	80.7	+6.3		59.7	70.4	+10.7
.150	106.6	120.4	+13.5		79.1	96.6	+17.5
.200	136.7	154.0	+17.3		97.5	117.4	+19.9
.250	168.9	186.8	+17.9		116.0	136.8	+20.8
.300	196.5	218.1	+21.6		134.0	153.9	+19.6
.350	223.4	248.5	+25.1		152.1	169.6	+17.5
.400	247.9	274.9	+27.0		167.9	183.0	+15.1
.450	267.1	295.1	+28.0		182.9	196.0	+13.1
.500	284.1	313.6	+29.5		196.3	207.1	+10.8
.550	295.6	322.6	+27.0		205.5	215.4	+19.9
.600	295.9	332.1	+36.2		215.0	221.7	+6.7
.650	298.8	332.9	+34.1		219.6	227.1	+7.5
.700	304.4	336.3	+31.9		223.5	230.7	+7.2
AVRG	210.1	232.7			148.8	161.7	