



# INDO GERMAN INDUSTRIES

## VALVE GUIDE

In order for a valve guide to function optimally it must be made from correct material and the best quality. Correctness in dimensions allows the valve stem to optimal clearance in the valve guide.

Most **valve guides** are made from a highly alloyed cast iron that has a phosphorous content which creates minute porosity in the microstructure. This diminutive porosity holds oil and thereby self-lubricates the **valve stem**. IGI produces the various raw materials required to comply with the OEM's.

IGI can make the following grades of material to the nearest specifications, some are as described below:

VALVE GUIDE													
Sr. No	MATERIAL	c	Si	Mn	Cr	Cu	Sn	S	P	Fe	Pb	Al	Zn
1	Aluminium Bronze		0.6%-0.9%	2.0%-4.0%		57.60%				0.25%-Max	0.3%-0.6%	1.5%-2.0%	Bal
2	Cast Iron	0.3%-3.90%	0.2%-2.90%	0.60%-0.70%	0.30%-Max	0.50%-Max	0.10%-Max	0.15%-Max	0.40%-0.70%	Balance			