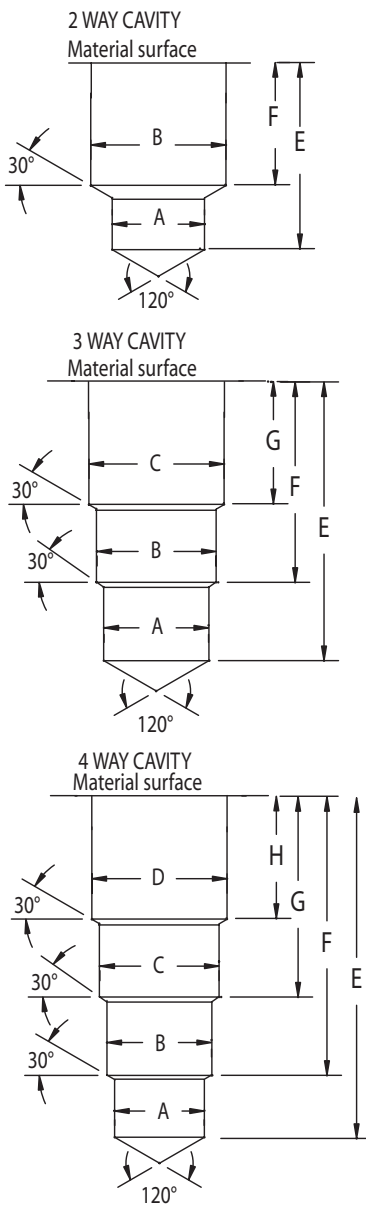


# CARTRIDGE VALVE CUTTERS

## #12 CAVITIES

### 2 WAY, 3 WAY, AND 4 WAY CAVITIES

HIGH SPEED STEEL  
ROUGHING DRILLS



2 Way, 3 Way, and 4 Way rough drills rough the complete cavity in one pass from solid or in pre-drilled or pre-cast holes leaving .030 stock on diameters and steps for finishing tool. Cutters are heat-treated for toughness and durability. All grinding is done between centers to insure concentricity. Cutters are full form relieved for ease of sharpening.



#### COATINGS AVAILABLE

TITANIUM NITRIDE-TIN  
TITANIUM CARBONITRIDE-TICN  
TITANIUM ALUMINUM NITRIDE-TIALN  
AL TITANIUM NITRIDE-ALTIN

#### COOLANT THRU AVAILABLE

SERIES #12 CAVITY TOOLING ROUGHING DRILL				
1-1/16-12 UNF-2B THREAD		DIAMETER TOLERANCES +/- .001		
2 WAY	DIA.	LENGTH	DESCRIPTION	TOOL NUMBER
Dia. A	.846	E 1.920	HSS Rough Drill	CT12-2R
Dia. B	.945	F 1.370		
3 WAY	DIA.	LENGTH	DESCRIPTION	TOOL NUMBER
Dia. A	.846	E 2.890	HSS Rough Drill	CT12-3R
Dia. B	.908	F 2.340		
Dia. C	.945	G 1.370		
4 WAY	DIA.	LENGTH	DESCRIPTION	TOOL NUMBER
Dia. A	.783	E 3.860	HSS Rough Drill	CT12-4R
Dia. B	.846	F 3.300		
Dia. C	.908	G 2.340		
Dia. D	.945	H 1.370		

All Diameters are .030 Under Finish Sizes  
Cutters are manufactured with a .750 Dia. shank, 2 long

