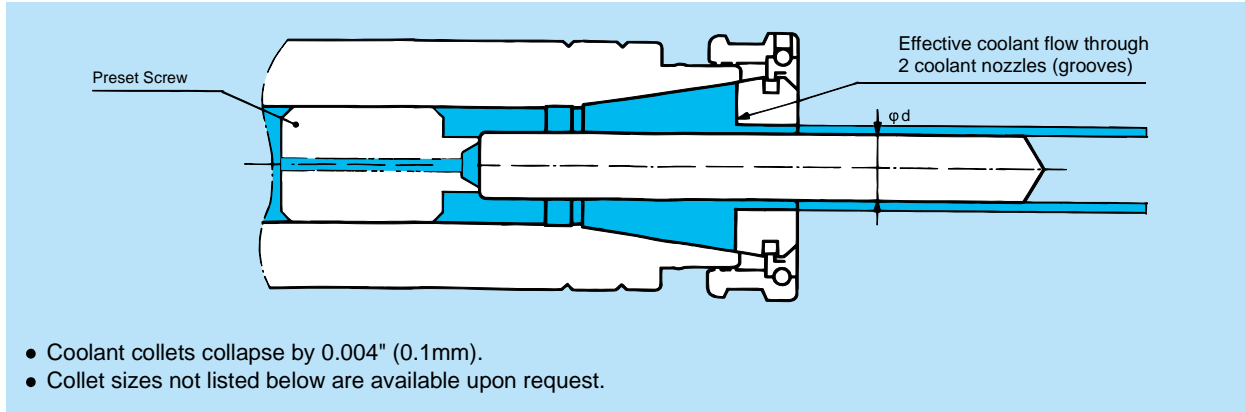


# High Precision Coolant Collets PAT.

## F D C / C (For tool without coolant hole)

### Feature

- FDC-C collets are short slotted for high pressure coolant applications.
- All steel construction eliminates loss of accuracy due to rubber or silicone seals.
- Eliminates down time due to damaged seals.



I.D.		Type		FDC-07-C	FDC-09-C	FDC-12-C	FDC-16-C	FDC-22-C
		mm	inch					
φ 3.0	φ 0.118	FDC-03007-C	FDC-03009-C	FDC-03012-C	—	—		
φ 3.5	φ 0.138	FDC-03507-C	FDC-03509-C	FDC-03512-C	—	—		
φ 4.0	φ 0.157	FDC-04007-C	FDC-04009-C	FDC-04012-C	—	—		
φ 4.2	φ 0.165	FDC-04207-C	FDC-04209-C	FDC-04212-C	—	—		
φ 4.5	φ 0.177	FDC-04507-C	FDC-04509-C	FDC-04512-C	—	—		
φ 5.0	φ 0.197	FDC-05007-C	FDC-05009-C	FDC-05012-C	—	—		
φ 5.5	φ 0.217	FDC-05507-C	FDC-05509-C	FDC-05512-C	—	—		
φ 6.0	φ 0.236	FDC-06007-C	FDC-06009-C	FDC-06012-C	FDC-06016-C	FDC-06022-C		
φ 6.5	φ 0.256	FDC-06507-C	FDC-06509-C	FDC-06512-C	FDC-06516-C	FDC-06522-C		
φ 6.8	φ 0.268	FDC-06807-C	FDC-06809-C	FDC-06812-C	FDC-06816-C	FDC-06822-C		
φ 7.0	φ 0.276	FDC-07007-C	FDC-07009-C	FDC-07012-C	FDC-07016-C	FDC-07022-C		
φ 7.5	φ 0.295	—	FDC-07509-C	FDC-07512-C	FDC-07516-C	FDC-07522-C		
φ 8.0	φ 0.315	—	FDC-08009-C	FDC-08012-C	FDC-08016-C	FDC-08022-C		
φ 8.5	φ 0.335	—	FDC-08509-C	FDC-08512-C	FDC-08516-C	FDC-08522-C		
φ 9.0	φ 0.354	—	FDC-09009-C	FDC-09012-C	FDC-09016-C	FDC-09022-C		
φ 9.5	φ 0.374	—	—	FDC-09512-C	FDC-09516-C	FDC-09522-C		
φ 10.0	φ 0.394	—	—	FDC-10012-C	FDC-10016-C	FDC-10022-C		
φ 10.2	φ 0.402	—	—	FDC-10212-C	FDC-10216-C	FDC-10222-C		
φ 10.5	φ 0.413	—	—	FDC-10512-C	FDC-10516-C	FDC-10522-C		
φ 11.0	φ 0.433	—	—	FDC-11012-C	FDC-11016-C	FDC-11022-C		
φ 11.5	φ 0.453	—	—	FDC-11512-C	FDC-11516-C	FDC-11522-C		
φ 12.0	φ 0.472	—	—	FDC-12012-C	FDC-12016-C	FDC-12022-C		
φ 13.0	φ 0.512	—	—	—	FDC-13016-C	FDC-13022-C		
φ 16.0	φ 0.630	—	—	—	FDC-16016-C	FDC-16022-C		
φ 18.0	φ 0.709	—	—	—	—	FDC-18022-C		
φ 20.0	φ 0.787	—	—	—	—	FDC-20022-C		
φ 22.0	φ 0.866	—	—	—	—	FDC-22022-C		

### Ordering Example

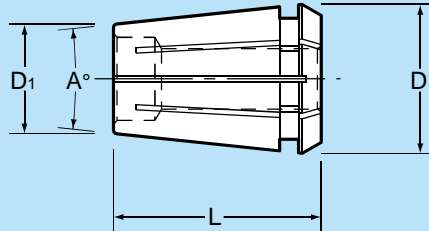
FDC-12012-C AA

Max I.D. 12 series accuracy

- When ordering Collet, please specify class (AA or A) of TIR accuracy at end of Model No.
- Collet class runout specifications shown on page 59.

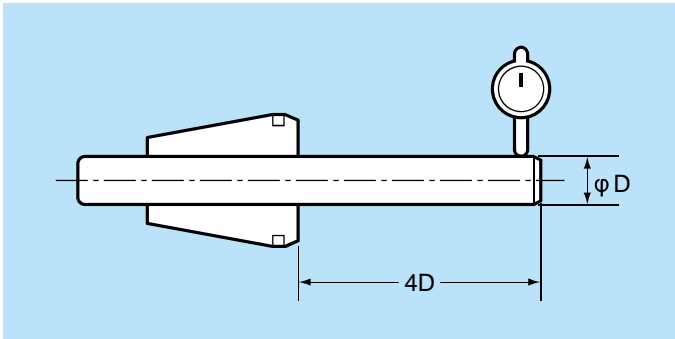
# FDC Collet Dimensional Data

## FDC Collet Dimensional Data



Type	D	D <sub>1</sub>	L	I.D. FDC		I.D. FDC-OH,C		A°
				inch	mm	inch	mm	
FDC-07	0.445	0.295	0.709	φ 0.020 - 0.276	φ 0.5 - 7.0	φ 0.118 - 0.276	φ 3.0 - 7.0	16
FDC-09	0.579	0.394	0.906	φ 0.098 - 0.354	φ 2.5 - 9.0	φ 0.118 - 0.354	φ 3.0 - 9.0	12
FDC-12	0.776	0.571	1.083	φ 0.098 - 0.472	φ 2.5 - 12.0	φ 0.118 - 0.472	φ 3.0 - 12.0	12
FDC-16	0.925	0.681	1.280	φ 0.138 - 0.630	φ 3.5 - 16.0	φ 0.236 - 0.630	φ 6.0 - 16.0	12
FDC-22	1.260	0.961	1.555	φ 0.138 - 0.866	φ 3.5 - 22.0	φ 0.236 - 0.866	φ 6.0 - 22.0	12

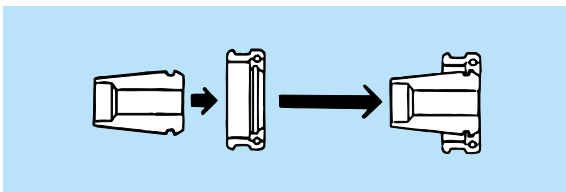
## Runout Accuracy



Accuracy class	AA	A
Chucking Accuracy at 4D	.0002" (5 μ m)	.0004" (10 μ m)

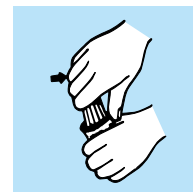
## Collet insertion and removal

To insert:



Place the FDC collet into the threaded end of the HDC nut. Press down on the rear of the collet to "clip" the collet into the nut.

To remove:



While holding the HDC nut firmly in one hand grasp the FDC collet in the other while pushing sideways.