

HYDRAULIC CYLINDER TUBES

Drawn Over Mandrel (DOM)

ASTM A 513 type 5 SAE 1020/1026

RELATED SPECIFICATIONS:

USA	ASTM A 513 type 5 SAE 1020 / 1026
Great Britain	BS 040 A20 / BS 070 M20

CHEMICAL ANALYSIS:

ASTM A 513 type 5 SAE 1020

	C %	Mn %	P %	S %
Min.	0.15	0.30	-	-
Max.	0.25	0.60	0.04	0.05

ASTM A 513 type 5 SAE 1026

	C %	Mn %	P %	S %
Min.	0.22	0.60	-	-
Max.	0.28	0.90	0.04	0.05

DESCRIPTION:

SAE 1020 is usually used in the manufacture of small diameters below 10 gauge or thin wall DOM steel tube, while SAE 1026 is usually used for larger sizes. DOM is formed from strip and electric resistance welded, then cold drawn to size. The cold drawing process causes the weld line to virtually disappear. Compared to CDS, DOM has a better finish, closer diameter tolerance, less eccentricity and lower cost.

APPLICATIONS:

It is suitable for general purpose applications such as machined parts, rollers, shafts and hydraulic cylinders.

TYPICAL MECHANICAL PROPERTIES:

ASTM A 513 type 5 SAE 1020

ASTM A 513 type 5 SAE 1026

Yield Strength ksi	U.T.S ksi	Elongation % in 2"	Rockwell Hardness
70	80	15	RB80

Yield Strength ksi	U.T.S ksi	Elongation % in 2"	Rockwell Hardness
70	80	10	RB85

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M has excellent weldability.

MACHINING:

SAE 1020 has excellent machinability and SAE 1026 has good machinability.

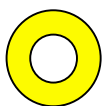
CORROSION RESISTANCE:

CDS has poor corrosion resistance.

SIZES AVAILABLE:

38.1x34.mm – 254x279.4mm

COLOUR CODE:



Unhoned Yellow



Honed Yellow and White