

# CHEVROLET ASTRA / VECTRA 2.0

## DATOS TECNICOS

### GENERALIDADES

Motor diesel 4 tiempos de inyección directa, 4 cilindros en línea dispuesto transversalmente en la parte delantera.

Bloque de cilindros de fundición y culata en aleación de aluminio.

Distribución con 16 válvulas y simple árbol de levas en cabeza arrastrado por cadena.

Tipo: X20DTL y X20DTH

Diámetro interior: 84 mm

Cámara: 90 mm

Cilindrada: 1994 cm<sup>3</sup>

Relación de compresión: 18,5 a 1

Presión de compresión: 17 a 24 bar

Diferencia de presión entre los cilindros: max. 1 bar

Potencia max.: X20DTL 80 kw/ 82 CV a 4300 rpm

X20DTH 74 kw/ 100 CV a 4300 rpm

Par máximo: X20DTL 18,8 kg a 1800 rpm

X20DTH 20,5 kg a 1600 - 2750 rpm

### CULATA

Culata en aleación de aluminio con asientos y guías de válvulas incorporadas. Los apoyos inferiores de árbol de levas están directamente trabajados en la culata.

Tubería de recirculación de los gases de escape integrada.

Altura nominal: 140 mm

Plano de junta no rectificable.

### Junta de culata

La junta de culata tiene unas marcas de espesor del lado distribución constituido por la presencia o no de muescas (3 como máximo).

Existen 3 espesores de junta de culata disponibles según la altura de pistones:

- sin muesca: 1,2 mm, para una altura de pistón entre 0,40 y 0,50 mm - 1 muesca: 1,3 mm, para una altura de pistón entre 0,51 y 0,60 mm - 2 muescas: 1,4 mm, para una altura de pistón entre 0,61 y 0,70 mm.

### Válvulas

4 válvulas en cabeza por cilindro paralelas entre ellas y perpendiculares al plano de junta de la culata.

Accionadas por simple árbol de levas en cabeza por intermedio de balancines (cada leva acciona 2 válvulas) y de empujadores hidráulicos.

Características (mm)	Admisión	Escape
Longitud	-Origen 97,1	96,9
	-Reparación 97,2	97
Diámetro de la cabeza	28,9 a 29,1	25,9 a 26,1
Tiempo de la culata	-Origen 5,945 a 5,970	5,945 a 5,960
	-Reparación 1 6,000 a 6,045	6,020 a 6,075
	-Reparación 2 6,105 a 6,150	6,065 a 6,110
Juego axial/guía de válvula	0,030 a 0,067	0,040 a 0,067
Límite concentricidad válvula/guía	0,03	

### Guías de válvulas

Guías montadas a presión en la culata.

Diámetro interior Origen 6,000 a 6,012 mm

Reparación 1 6,075 a 6,090 mm

Reparación 2 6,150 a 6,165 mm

Altura de montaje de una guía 11,20 a 11,50 mm

### Asientos de válvulas

Asientos montados a presión en la culata.

Ángulo de superficie 45° 20'

Ancho de la superficie 1,4 a 1,6 mm

**Juego de funcionamiento** Sin reglaje posible debido al montaje de empujadores hidráulicos.

### BLOQUE DE CILINDROS

Bloque motor de fundición con cilindros rectificadas directamente en la masa.

El bloque se compone de un refuerzo desmontable atornillado igualmente sobre los apoyos de cigüeñal.

Las marcas correspondientes al diámetro interior de los cilindros y el diámetro de los apoyos están en la parte baja del bloque cilindros del lado escape hacia la distribución.

Diámetro interior marca 8 83,975 a 83,985 mm

de los cilindros marca 95 83,985 a 83,995 mm

marca 00 83,995 a 84,005 mm

marca 01 84,005 a 84,015 mm

marca 02 84,015 a 84,025 mm

Sobremedida máxima admisible 0,5 mm

Diám. apoyos marca 0 72,0000 a 72,0065 mm

cigüeñal marca 1 72,0065 a 72,0130 mm

### TREN ALTERNATIVO

#### Cigüeñal

Cigüeñal en acero con 8 masas de equilibrado sobre 3 apoyos y un amortiguador de torsión.

El 6º contrapeso está provisto de muescas para el captador de régimen motor y el pasador de calado.

Diámetro de los apoyos (mm)

Origen marca verde 67,986 a 67,994

marca marrón 67,974 a 67,982

Reparación 1 (minoración de 0,25)

marca verde/azul 67,716 a 67,724

marca marrón/azul 67,724 a 67,732

Reparación 2 (minoración de 0,50)

marca verde/violeta 67,466 a 67,474

marca marrón/violeta 67,474 a 67,482

Ancho de apoyo (mm)

Origen 26,950 a 26,002

Reparación 1 (minoración de 0,20)

marca azul 26,150 a 26,202

Reparación 2 (minoración de 0,40)

marca violeta 26,350 a 26,402

Diámetro de los cuellos (mm)

Origen 48,971 a 48,990

Reparación 1 (minoración de 0,25)

marca azul 48,721 a 48,740

Reparación 2 (minoración de 0,50)

marca violeta 48,471 a 48,490

Ovalización max. 0,03 mm

Juego radial 0,016 a 0,069 mm

# Astra Dti Manual

**Brian Smothers**



## Astra Dti Manual:

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