



SHRIRAM PISTONS & RINGS

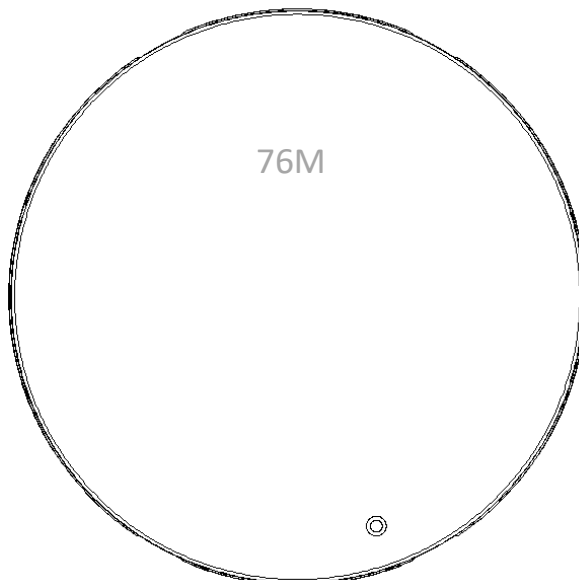
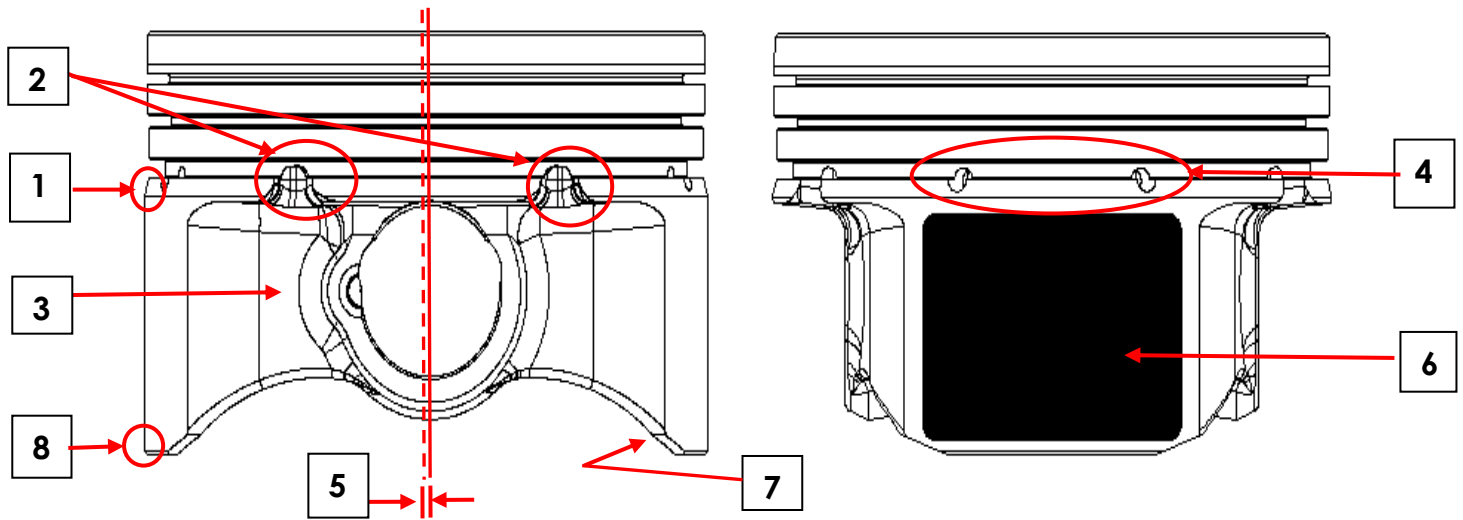
MD: TS: 02/MAY'23 INTRODUCTION CIRCULAR – **MARUTI S-PRESSO/CELERIO/WAGONR** (3 Cylinder-2014 onwards)– **PISTON SET**

USHA is pleased to launch **Maruti S-Presso/Celerio/WagonR (3 Cylinder-2014 onwards)** piston set in its Car product range.



This piston set has following special features:

PISTON:



Unique features of this piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	CHAMFER AT BOTTOM OF OIL RING GROOVE: USHA Maruti S-Presso/Celerio/WagonR piston has an all-round chamfer just below the oil ring groove area.	<ul style="list-style-type: none"> • Provides all time lubrication to piston skirt • No piston seizure in extreme limits of normal working conditions
2)	QUICK OIL RETURN SLOTS (QORS): Two nos. of Quick Oil Return Slots (QORS) are provided on either side of piston above the pin bore, half in groove & half in window.	<ul style="list-style-type: none"> • Quick drainage of oil, hence low oil consumption
3)	AS CAST RELIEF IN PIN BORE AREA: This piston is provided with as cast relief in pin bore area which not only helps in faster drainage of oil towards sump but also in avoiding chances of seizure on minor axis.	<ul style="list-style-type: none"> • Low oil consumption • Longer life
4)	HOLES IN OIL RING GROOVE AREA: In addition to QORS, 02 nos. of holes are provided on either side of piston, half in groove & half in window.	<ul style="list-style-type: none"> • Faster drainage of excess oil • Reduced oil consumption
5)	PISTON - PIN BORE OFFSET: Piston is provided with a piston pin bore offset to avoid piston slap. Piston pin bore offset means that the centre line of piston is slightly offset from the centre line of pin bore. Due to this offset, piston tilts at TDC & BDC smoothly, that prevents slapping with liner.	<ul style="list-style-type: none"> • Reduced engine noise
6)	'D-10 COATING' ON PISTON SKIRT:	<ul style="list-style-type: none"> • Helps in initial lubrication & seizure free operation • Better wear resistance • Reduces engine noise
7)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> • Improves fuel efficiency • Low noise during engine working
8)	SCRAPPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> • Helps in regulating oil supply, reduces skirt wear & hence longer life

**TECHNICAL DATA – ‘MARUTI S-PRESSO/CELERIO/WAGONR’ (3 Cylinder-2014 onwards)
PISTON**

USHA CODE → C33

Nominal Bore Diameter	mm	73.0
Piston Diameter	STD Size mm	72.99
Recommended Piston-Liner Clearance	mm	0.010
Compression Height	mm	27.25
Total Height	mm	44.50
Piston Pin length X diameter	mm	48.0 X 18.0
Piston Pin- Pin Bore Clearance	mm	+0.006 to +0.019 (Clearance fit)

Above features make USHA ‘**Maruti S-Presso/Celerio/WagonR (3 Cylinder- 2014 onwards)**’ piston set unique, produced to give better performance & longer life especially when fitted with matching USHA rings i.e. Maruti A-Star/ Alto K-10 (USHA Code: C23/C27), now being renamed as **Maruti A-Star/Alto K-10/Celerio/S-Presso**.



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