



SHRIRAM PISTONS & RINGS

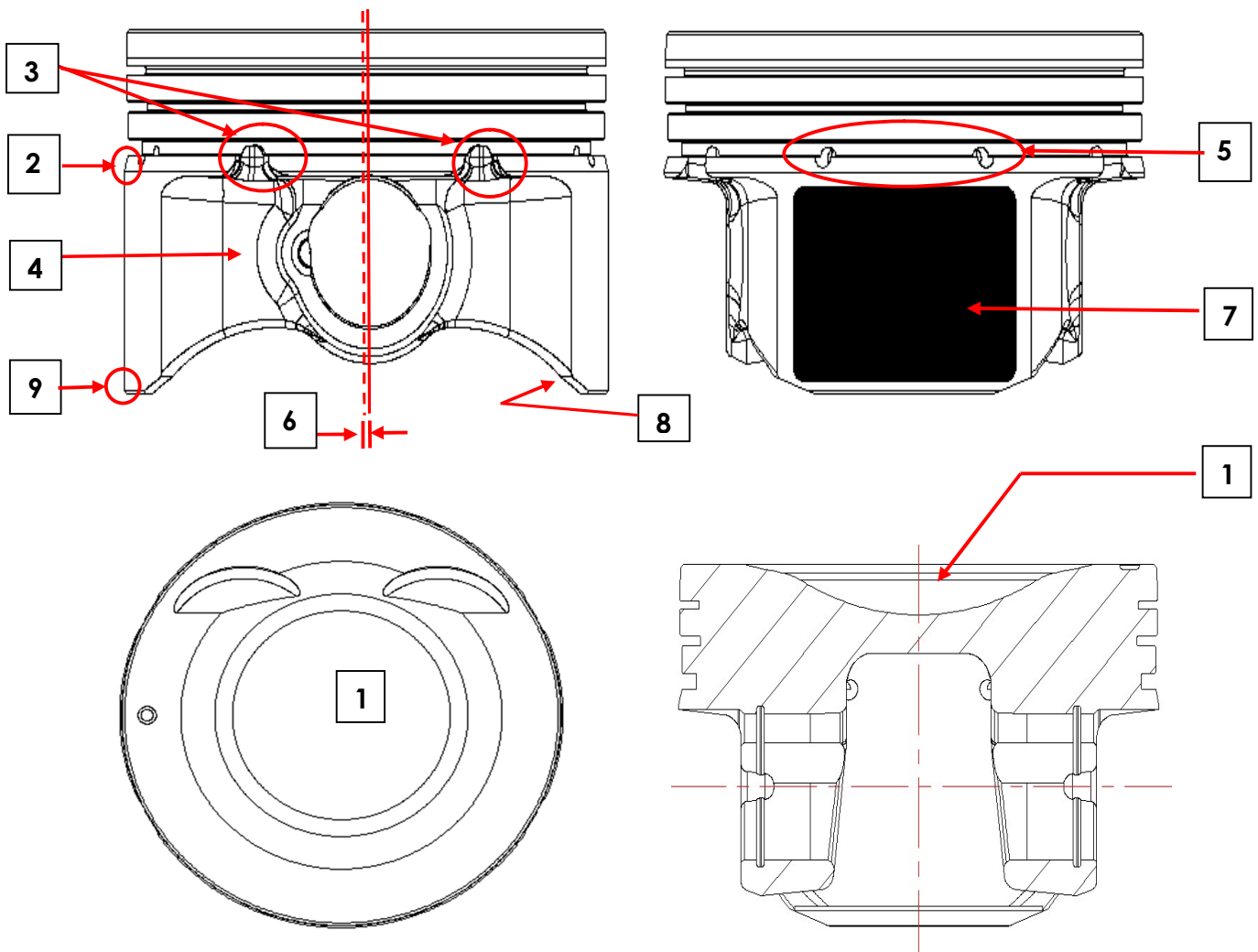
MD: TS: 27/FEB'23 INTRODUCTION CIRCULAR – **MARUTI SWIFT/ BALENO/ IGNIS/ WAGONR – PISTON SET**

USHA is pleased to launch **Maruti Swift/ Baleno/ Ignis/ WagonR (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)	SHALLOW CAVITY: USHA Maruti Swift/ Baleno/ Ignis/ WagonR piston crown is provided with a shallow machined cavity for an effective combustion.	<ul style="list-style-type: none"> • Low emissions • Better fuel efficiency
2)	CHAMFER AT BOTTOM OF OIL RING GROOVE: This 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
3)	QUICK OIL RETURN SLOTS (QORS): USHA Maruti Swift/ Baleno/ Ignis/ WagonR piston has been provided with two nos. of Quick Oil Return Slots (QORS) on either side of the piston above pin bore, half in groove & half in window.	<ul style="list-style-type: none"> • Quick drainage of oil, hence low oil consumption
4)	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
5)	HOLES IN OIL RING GROOVE AREA: USHA Maruti Swift/ Baleno/ Ignis/ WagonR piston has also been provided with 02 nos. of holes in the oil ring groove on either side, half in the groove & half in the skirt.	<ul style="list-style-type: none"> • Faster drainage of excess oil • Reduced oil consumption
6)	PISTON - PIN BORE OFFSET: This 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
7)	'D-10 COATING' ON PISTON SKIRT: USHA Maruti Swift/ Baleno/ Ignis/ WagonR piston is provided with 'D-10' coating on its skirt.	<ul style="list-style-type: none"> • Helps in initial lubrication & seizure free operation • Better wear resistance • Reduces engine noise
8)	SLIPPER DESIGN: USHA Maruti Swift/ Baleno/ Ignis/ WagonR piston is provided with Slipper design which helps in reducing piston weight.	<ul style="list-style-type: none"> • Improves fuel efficiency • Low noise during engine working
9)	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 SWIFT/ BALENO/ IGNIS/ WAGONR' (2014 onwards) PISTON		
		USHA CODE → C30
Nominal Bore Diameter	mm	73.0
Piston Diameter	STD Size mm	72.99
Recommended Piston-Liner Clearance	mm	0.01
Compression Height	mm	27.30
Total Height	mm	44.55
Piston Pin length X diameter	mm	48.0 X 18.0
Piston Pin- Pin Bore Clearance	mm	+0.006 to +0.019 (Clearance fit)

A mark '**83PO**' is punched on crown of this piston for identification of this model.

Above features make USHA '**Maruti Swift/ Baleno/ Ignis/ WagonR**' piston set unique, produced to give better performance & longer life especially when fitted with matching USHA rings.



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