

GEAR SHIFT SERVO (GSS)

The GSS is a premium gear-shift actuator reducing shift times and improve air consumption; it's been a proven winner worldwide in various series including 24hr Le Mans.

By combining a shift actuator with a valve block, the GSS allows for fast response combined with a reduction in air consumption as it only requires a single airline and wiring connector.

ROAD RACE



KEY POINTS

- Valve On Actuator Design With Powerful Action
- Quick Response & Low Air Consumption
- Simplified Vehicle Installation And Packaging
- 34mm Total Stroke & Adjustable Rod Ends
- Dash 4 JIC Air Feed Fitting
- 24hr Le Mans Winning
- M8 and 1/4" Mounting Ends

PRODUCT ORDERING INFORMATION

DESCRIPTION	PART NO
GSS - DTM Connector	ZF203-1
GSS - AS Connector	ZF206-1



CONNECTOR PIN OUT

PIN	DEFINITION
ZF203-1: DTM04-3P - Mating Half: DTM06-3S	
1	12V
2	Up Valve
3	Down Valve
ZF206-1: ASI07 35PN - Mating Half: AS607 35SN	
1	Up Valve +
2	Up Valve -
3	Down Valve +
4	Down Valve -
5-6	NC

TECHNICAL DATA

Valve Response Time	<10 ms
Maximum Operating Pressure	10 Bar
Stroke	+/- 17mm
Air Inlet Fitting	Dash 4 JIC Male
Mounting Rod Ends	1/4" - Rod, 8mm - Body

SYSTEM REQUIREMENTS

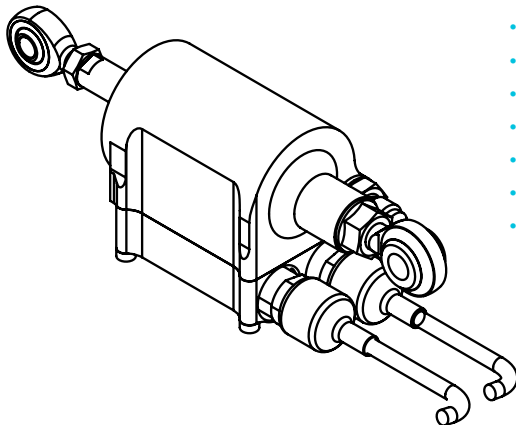
Air Supply	<10 Bar
Ambient Working Temperature	-10C to 70C
Voltage Range	8V - 16V
Maximum Current	4.5A at 12V at 20C
Minimum Valve Coil Resistance	2.9 Ohms at 20C

DESCRIPTION

The CNC machined body is protectively anodised and combined with a durable chrome rod and protective air filters to ensure that the end product is robust and reliable. It is fitted with low friction seals, allowing for smooth movement and has adjustable rod ends on both sides, allowing it to be a good fit for most applications.

DIMENSIONS

Weight	364g
Width	48mm
Height	59mm
Length	149mm



INSTALLATION NOTES

- Requires clean, dry air supply
- Install away from direct heat sources
- Do not strain or side load actuator, allow free and easy movement
- Preferred mounting is with valves at lowest point
- User copperslip when attaching hose fittings (not Loctite or PTFE)
- Use only aluminium or stainless steel hose fittings
- Actuator should be at 90° to actuator clevis
- Ensure rest position is at mid point of stroke
- Up shift is normally rod extending from actuator, down is retraction
- Keep rod clean of dirt and debris
- Service interval of 30 hrs or 6000km