

## Overview

The Domin S6 Pro direct drive servo valve (DDV) has been designed to achieve the best characteristics from two competing valve technologies: fluid amplified EHSV and DDVs.

The S6 Pro has the size, weight, and dynamic capabilities of the most compact EHSV, and the low quiescent leakage and reliability of the best DDV.

The S6 Pro is based around the NG6 port pattern and weighs less than 600 g. With a rated flow of 60 litres per minutes, the valve is available in voltage or current controlled versions.



## Features

- Direct drive valve with **onboard electronics with spool position feedback**
- **NG06** Port Pattern
- **Rated flow** of up to **60 lpm** (at 70 Bar  $\Delta P$ )
- **Maximum flow** of up to **130 lpm**
- Bandwidth of **> 230 Hz** (-3 dB, up to  $\pm 25\%$  FS)
- Low **power consumption of < 5 W** at rated flow
- Valve mass less than **600 g**


## Why move to DDVs?

- DDVs use modern technology to **reduce CO2 emissions by an average of 1 ton per year** through more efficient energy use and the removal of the first hydraulic stage.
- **Mass customisation is enabled** through modern, intelligent onboard electronics
- **Increased reliability** is achieved through the removal of the first stage and complete environmental sealing giving longer product life, dirty oil compatibility and high chip shear capability.
- The Spool position, all performance metrics are independent of supply pressure allowing **more consistent performance**.
- **DDV's offer digitally controlled hydraulics** giving customers and OEMs access to data like never before.



Datasheet

## How we Compare

				
	S6 Pro	D1FP	4WRREH 6	D633
Flow	<span style="color: green;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>
Frequency Response	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>
Weight	<span style="color: green;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>
Size	<span style="color: green;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>
Step Response	<span style="color: green;">●</span>	<span style="color: green;">●</span>	<span style="color: red;">●</span>	<span style="color: red;">●</span>

## S6 Pro Popular Sectors

Aerospace



Vibration Equipment



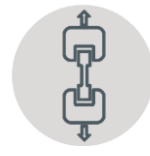
Animatronics



Simulation



Fatigue &amp; Material Testing



## Domin

- ✓ World leading products
- ✓ Semi / fully custom applications
- ✓ Integrated system design
- ✓ Hydraulic servo control
- ✓ Niche demands that require small changes to the product
- ✓ Competitive pricing
- ✓ Lead times reduced dramatically compared to current competitors

## For more Information, please Contact Us:



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