

**In this month's Hydrafile:****New Product - Hyspecs SAFEX™ Valve**

So what's a SAFEX™ Valve? It's a hydraulic cartridge manifold designed to be retrofitted directly to an Excavator Boom or Arm Cylinder which will continue to hold position, even in the event of hose failure.

The valves are designed to meet Australian Safety Regulations for Excavators. They can be fitted directly to the ports of boom and arm cylinders and will hold the cylinders in position until the joystick is shifted to control the functions. A relief valve is included in the SAFEX™ valve to protect the cylinders from overpressure. Duplicated valve (V), pilot (PIL) and drain (DR) ports allow the valves to be fitted to either side of the cylinder. The ports on the unused side are plugged and can be used to check pressure on the positions. An E/TP port on the valve can be used for initial bleed off and/or a test point to set the relief. Both SAE code 61 and code 62 valve ports are available to suit different excavators.

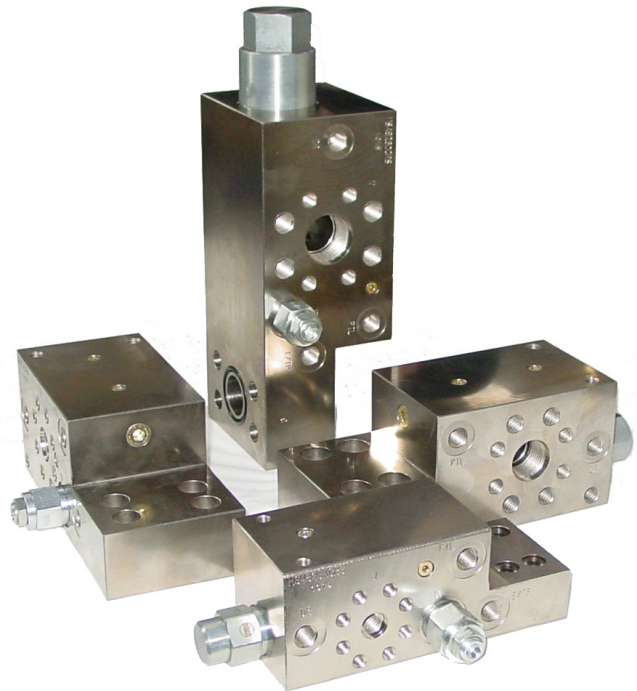
**Features and Benefits:**

- Designed to meet the Australian Safety Regulations for Excavators.
- Relief valve is included for cylinder protection.
- Duplicated valve (V), pilot (PIL) and drain (DR) ports allow the valves to be fitted to either side.
- E/TP port on the valves can be used for initial bleed off and/or a test point to set the relief.
- Assembled from locally sourced components for ease of service including top quality standard cartridges which can be purchased in any major city around the world.
- Manufactured by HYSPECS and HYTECH.
- Valve assemblies consist of Ductile Iron manifolds with Zinc plating (Nickel plating is an option).

**Specifications:**

- Available from 1/2" BSP to SAE 1/2", 3/4", 1" & 1.25" code 62 main ports. 1/4" BSP ports for PIL, DR & E/TP.
- Flow capability from 120LPM to 480LPM.

To download a printable SAFEX™ Valve brochure [click here](#). For more information contact Hyspecs by [email](#) or give us a call using the numbers in the left hand column.

**HYDRAULIC SPECIALTIES LTD.**

P.O. Box 204 157, Highbrook, Auckland 2161  
Tel: +64 9 274-9985  
Fax: +64 9 274-4441  
32 Crooks Road, East Tamaki 2013  
Auckland, New Zealand

P.O. Box 7493 Sydenham, Christchurch 8240  
Tel: +64 3 366-1872  
Fax: +64 3 366-1431  
40 Durham Street, Sydenham 8023  
Christchurch, New Zealand

Online shopping at: [www.hyspecs.co.nz](http://www.hyspecs.co.nz)

E-mail: [hyspecs@hyspecs.co.nz](mailto:hyspecs@hyspecs.co.nz)



## Hytech News - Lights Out Machining

The manufacturing arm of Hyspecs, Hytech has been running its Doosan HP5100 horizontal CNC machine for over a year now. It's lead to shorter lead times and improved quality of product. The latest "trick" we've mastered is the ability to run "lights out" machining. At 5pm each night when the workers are about to head home, the Doosan has been loaded with new blocks of aluminium or steel ready to cut throughout the night, un-attended.

To get this working wasn't just a case of loading it and pushing go (if only it were so easy). Charged with getting it to work, CNC Operator/Programmer Pieter Pieterse had to come up with a way of having the machine stop automatically, should there be a problem. "The tools used to machine the blocks can potentially break during the process. We don't want a broken tool to go back into the carousel only to be used again - leading to a potential disaster. We've come up with a database of designated tools which can be used for the lights out process, which are measured automatically after each use." The HP5100 is fitted with a "Renshaw tool setting probe" which physically measures each tool after use and will reject it should there be a differential of + or - 0.5mm offset. "If this happens the machine will shut down and wait for assistance" says Pieter. "There is another add-on to the machine whereby it can text for help should this happen. We don't need this yet but it's nice to know the machine can grow with us" adds Pieter.

So far the lights out process is giving us about 6-8 hours of extra machining time each night. This has huge benefit for both Hytech and its customers with lead times going down and production rates going up.

For more information on Hytech visit our website by [clicking here](#).

Download the Hytech brochure by [clicking here](#).



*The Daewoo HP5100 Vertical CNC*



*Renshaw tool setting probe in action*

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## 100,000th Customer Giveaway

We've just pass the 99,000th packingslip so that leaves just under 1000 to go before we give away the brand new softbait rod, reel and goodies. We reckon it'll happen sometime in the next 4-8 weeks - watch this space.

NB. The free giveaway is only available to customers of the North Island Auckland branch.

Warm regards

Nick Cottier  
Marketing & IT Manager  
[nick@hyspecs.co.nz](mailto:nick@hyspecs.co.nz)



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