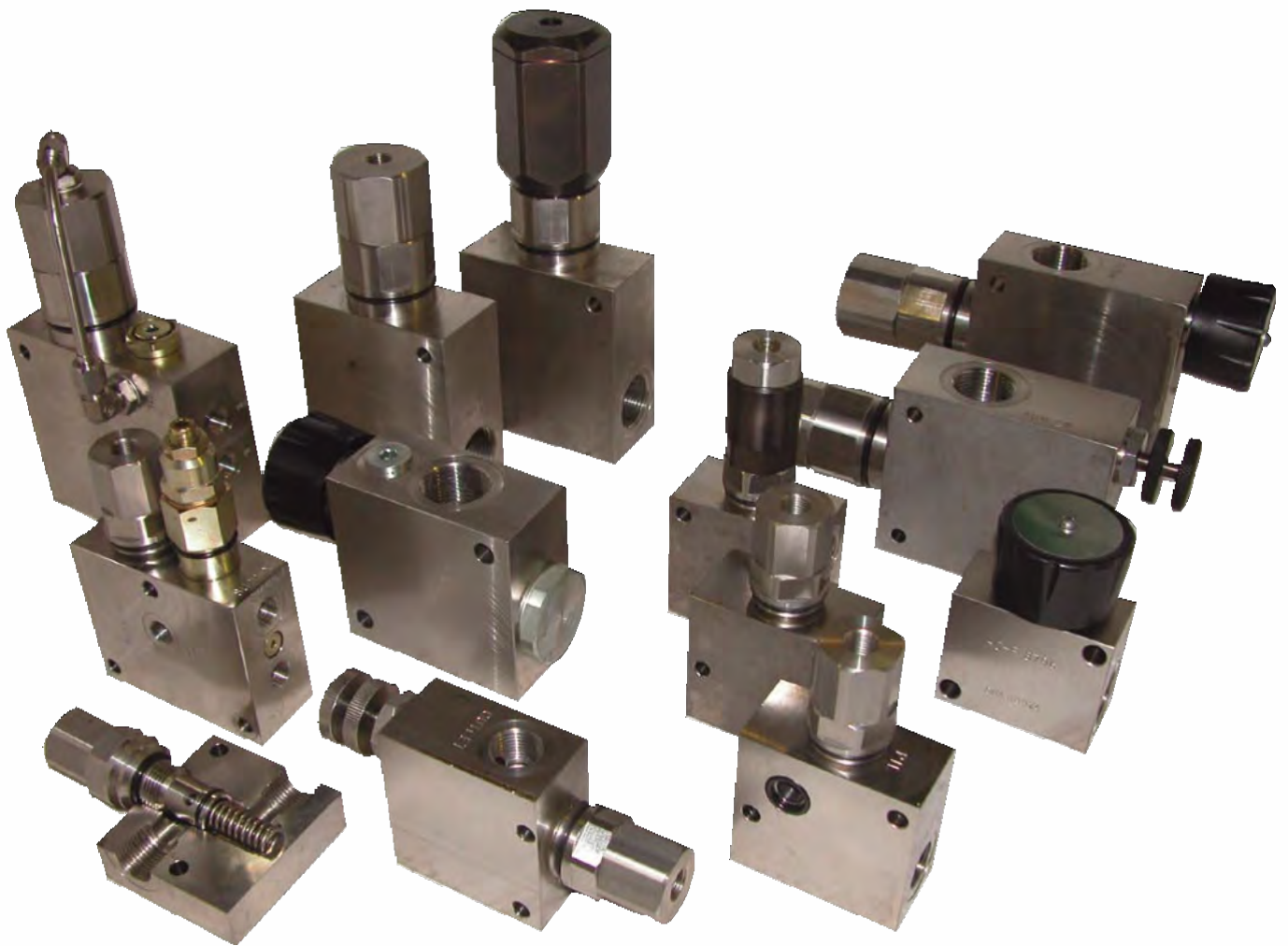


Hydraulic Controls

HIGH PRESSURE WATER VALVES



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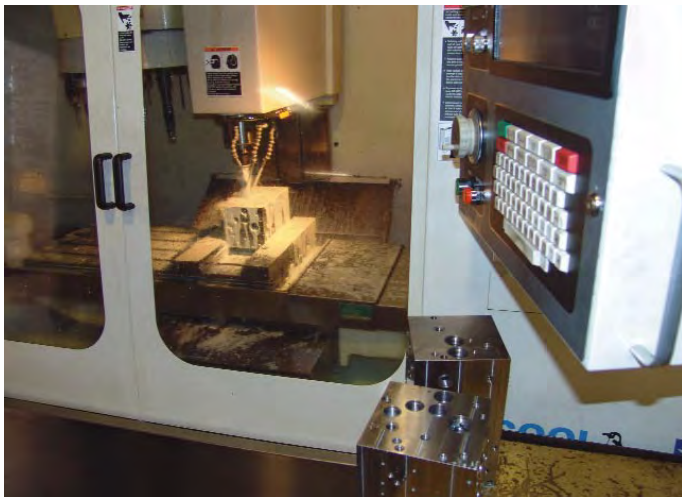
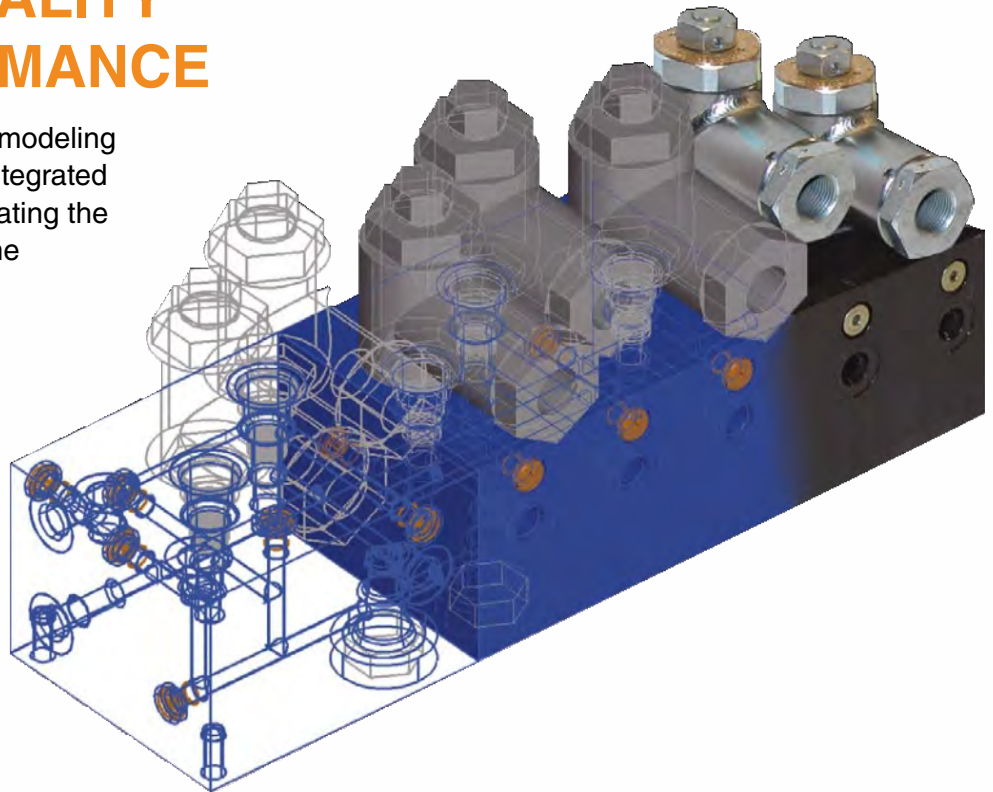
www.hydrauliccontrols.com.au

Hydraulic Controls Pty Ltd, 2 Grosvenor Place, PO Box 7462, Warringah Mall, NSW 2100, Australia

ABN: 86 000 997 240

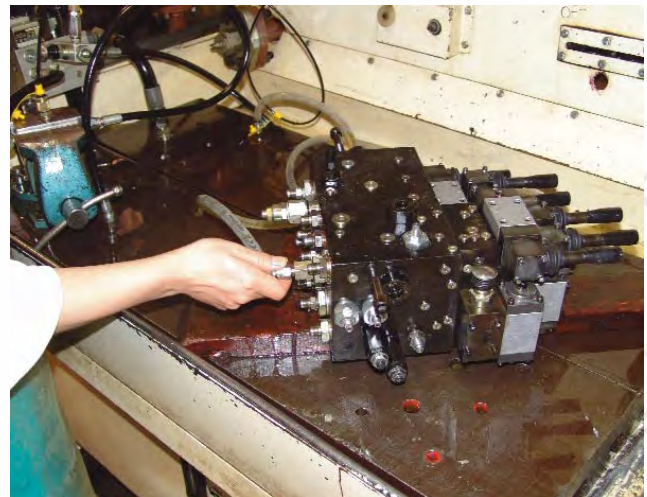
3D MODELLING: FROM DESIGN TO MANUFACTURE ENSURES QUALITY AND PERFORMANCE

Our design engineers use 3D modeling to create compact Hydraulic Integrated Circuits (HICs), thereby eliminating the use of complex pipework for the final installation.



TESTING

All Valves and HICs are tested up to maximum operating pressure to ensure they function correctly as designed. They can be pre-set to meet our customers' specification.



CNC MACHINES

Hydraulic Controls invests heavily in advanced CNC Machines on an annual basis, to ensure that our products are manufactured efficiently, to high quality and to meet our customers' specification.

INDEX FOR WATER VALVES

| Part Number | Description |
|-----------------------|--|
| ▪ HC-K 6024-01 | Stainless Steel Water Pilot Check – G1/2" – 0.9:1 Ratio |
| ▪ HC-K 6024-02 | Stainless Steel Water Pilot Check – G1/2" – 1.4:1 Ratio |
| ▪ HC-K 6514 | Stainless Steel Water Pilot Check – G1" – 1:1 Ratio |
| ▪ HC-K 7244 | Stainless Steel Water Pilot Check – G1" – 3:1 Ratio – Hydraulic Pilot Only |
| ▪ HC-K 7624 | Stainless Steel Water Pilot Check – G1/2" – 2.5:1 Ratio – Hydraulic Pilot Only |
| ▪ HC-K 10523 | Stainless Steel Water Pilot Check – G1/2" – 0.9:1 Ratio – With Stainless Bypass Needle Valve |
| ▪ HC-K 10526 | Stainless Steel Water Pilot Check – G1" – 1:1 Ratio – With Stainless Bypass Needle Valve |
| ▪ HC-W 18796 | Detented flow restrictor G3/4 |
| ▪ HC-P 10063 | Venturi Pump |

Please Note:

Other design variations are available such as pilot ratios, port sizes and switching functions. Please consult our engineering department to confirm suitable application prior to selection.

PILOT ON/OFF VALVE FOR WATER

HC-K 6024

APPLICATION

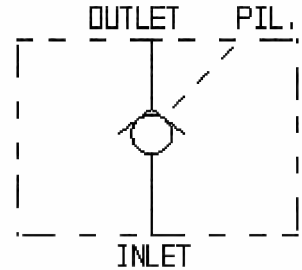
This stainless steel ON/OFF valve controls on/off flow of water to the drill head for mining operations and other hazardous applications. It is also suitable for other high-pressure water applications. The Pilot supply can be either water or hydraulic fluid.

OPERATION

Pilot pressure is supplied to the pilot chamber, which is isolated from the main valve section to ensure that the water does not get contaminated with hydraulic fluid and vice versa. The check poppet is normally spring closed until such time as it is piloted open. It is not suitable for reverse flow.

FEATURES

Designed and made in Australia. All parts are stainless steel ensuring long life with normal tap water. Different Pilot Ratios are available.



SPECIFICATION

| | |
|--------------------------------|------------------|
| ▪ Rated Flow | 30 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Pilot Ratio | 0.9:1 |
| | 1.4:1 |
| ▪ Weight | 1.77 Kg |
| ▪ Fluid Viscosity Water | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5° C to 90° C |
| ▪ Port Sizes | 1/2" BSPP (G) |
| ▪ Pilot Port | 1/4" BSPP (G) |

Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

PILOT ON/OFF VALVE FOR WATER

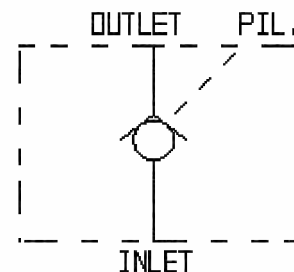
HC-K 6514

APPLICATION

This stainless steel Pilot Check Valve controls on/off water flow to the drill head for mining operations and other hazardous applications. Pilot supply can be either water or hydraulic fluid.

OPERATION

Pilot pressure is supplied to the pilot chamber, which is isolated from the main valve section to ensure that the water does not get contaminated with hydraulic fluid and vice versa. The check valve is normally spring closed until such time as it is piloted open. It is not suitable for reverse flow.



FEATURES

Designed and made in Australia. All parts are stainless steel ensuring long life with normal tap water. Different Pilot Ratios are available.

SPECIFICATION

| | |
|--------------------------------|------------------|
| ▪ Rated Flow | 120 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Pilot Ratio | 1.25:1 |
| ▪ Weight | 4.73 kg |
| ▪ Fluid Viscosity Water | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5°C to 90°C |
| ▪ Port Size | 1" BSPP (G) |
| ▪ Pilot Port | 1/4" BSPP (G) |

PILOT ON/OFF VALVE FOR WATER

HC-K 7244

APPLICATION

This stainless steel (Main Section) Pilot Check valve controls on/off water flow to the drill head for mining operations and other hazardous applications. The pilot supply must be hydraulic fluid.

OPERATION

Pilot pressure (Hydraulic Fluid) is supplied to the pilot chamber, which is isolated from the main valve section to ensure that the water does not get contaminated with hydraulic fluid and vice versa. The check valve is normally spring closed until such time as it is piloted open. It is not suitable for reverse flow.



FEATURES

Designed and made in Australia. Main section is made from stainless steel ensuring long life with normal tap water. Different pilot ratios are available.

SPECIFICATION

| | |
|--------------------------------|------------------|
| ▪ Rated Flow | 120 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Pilot Ratio | 3:1 |
| ▪ Weight | 5.95 kg |
| ▪ Fluid Viscosity Water | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5°C to 90°C |
| ▪ Port Size | 1" BSPP (G) |
| ▪ Pilot Port | 1/4" BSPP (G) |

PILOT ON/OFF VALVE FOR WATER

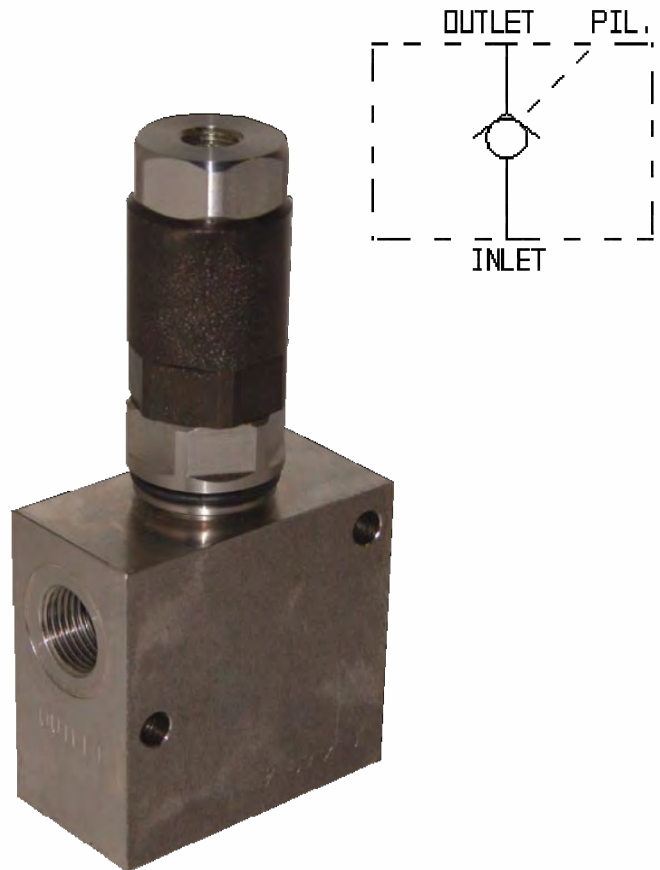
HC-K 7624

APPLICATION

This stainless steel (Main Section) Pilot Check Valve controls on/off flow to the drill head for mining operations and other hazardous applications. The pilot supply must be hydraulic fluid.

OPERATION

Pilot pressure (Hydraulic Fluid) is supplied to the pilot chamber, which is isolated from the main valve section to ensure that the water does not get contaminated with hydraulic fluid and vice versa. The check valve is normally spring closed until such time as it is piloted open. It is not suitable for reverse flow.



FEATURES

Designed and made in Australia. Main section is made from stainless steel ensuring long life with normal tap water. Different pilot ratios are available.

SPECIFICATION

| | |
|--------------------------------|------------------|
| ▪ Rated Flow | 30 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Pilot Ratio | 2.5:1 |
| ▪ Weight | 5.92 kg |
| ▪ Fluid Viscosity Water | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5°C to 90°C |
| ▪ Port Size | 1/2" BSPP (G) |
| ▪ Pilot Port | 1/4" BSPP (G) |

PILOT ON/OFF VALVE WITH BY-PASS FOR WATER

HC-K 10523

APPLICATION

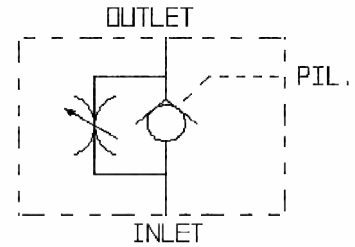
This stainless steel Pilot Check valve controls on/off water flow to the drill head for mining operations and other hazardous applications. The manual by-pass valve allows for water flow when the machine is switched off. Pilot supply can be either water or hydraulic fluid.

OPERATION

Pilot pressure is supplied to the pilot chamber, which is isolated from the main valve section, to ensure that water does not get contaminated with hydraulic fluid and vice versa. The check valve is normally spring closed until such time as it is piloted open. It is not suitable for reverse flow. The manual by-pass valve is normally closed but can be opened when machine power is off to allow some water flow for other purposes.

FEATURES

Designed and made in Australia. All parts are stainless steel ensuring long life with normal tap water. Different Pilot Ratios are available.



SPECIFICATION

| | |
|--------------------------|------------------|
| ▪ Rated Flow | 30 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Pilot Ratio | 0.9:1 |
| ▪ Weight | 1.80 kg |
| ▪ Fluid Viscosity | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5°C to 90°C |
| ▪ Port Size | 1/2" BSPP (G) |
| ▪ Pilot Port | 1/4" BSPP (G) |

PILOT ON/OFF VALVE WITH BY-PASS FOR WATER

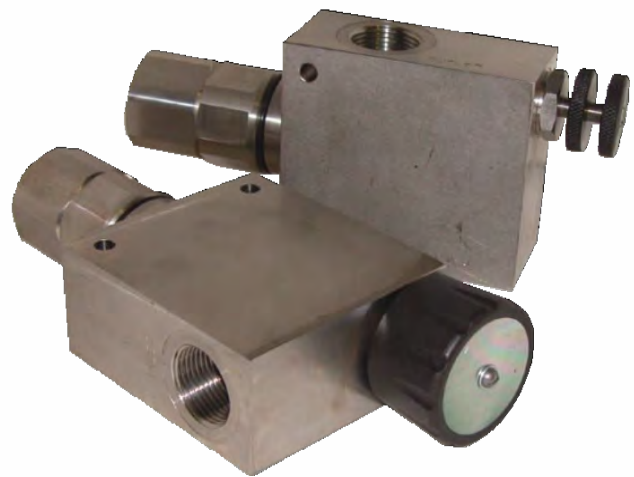
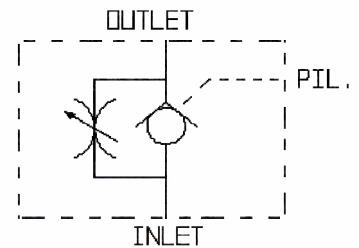
HC-K 10526

APPLICATION

This stainless steel Pilot Check valve controls on/off water flow to the drill head for mining operations and other hazardous applications. The manual by-pass valve allows for water flow when the machine is switched off. Pilot supply can be either water or hydraulic fluid.

OPERATION

Pilot pressure is supplied to the pilot chamber, which is isolated from the main valve section, to ensure that water does not get contaminated with hydraulic fluid and vice versa. The check valve is normally spring closed until such time as it is piloted open. It is not suitable for reverse flow. The manual by-pass valve is normally closed but can be opened when machine power is off to allow some water flow for other purposes.



FEATURES

Designed and made in Australia. All parts are stainless steel ensuring long life with normal tap water. Different Pilot Ratios are available.

SPECIFICATION

| | |
|--------------------------|------------------|
| ▪ Rated Flow | 120 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Pilot Ratio | 1.25:1 |
| ▪ Weight | 4.60 kg |
| ▪ Fluid Viscosity | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5°C to 90°C |
| ▪ Port Size | 1" BSPP (G) |
| ▪ Pilot Port | 1/4" BSPP (G) |

FLOW RESTRICTOR FOR WATER

HC-F 8796

APPLICATION

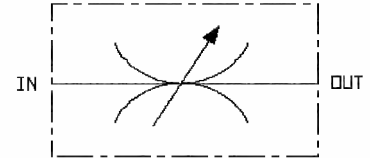
This stainless steel Detented Flow Restrictor is suitable for restricting the flow of water or other fluids from INLET to the OUTLET ports for flow rates up to 80 L/Min and pressures up to 210 Bar. A larger version is available.

OPERATION

The eleven-position detent feature allows flow to be adjusted to specific flow rates as required for the application. It is not pressure compensated so flow rate will vary inline with the pressure drop across the valve.

FEATURES

Valve body is stainless steel and knob is plastic ensuring long life with normal tap water. The detent positions are spaced approximately 30 degrees throughout one revolution of the hand knob.



SPECIFICATION

| | |
|--------------------------|------------------|
| ▪ Rated Flow | 80 L/Min |
| ▪ Rated Pressure | 210 Bar |
| ▪ Weight | 1.30 kg |
| ▪ Fluid Viscosity | 1.55 to 0.40 cSt |
| ▪ Seal Material | Nitrile |
| ▪ Operation Temp | 5°C to 90°C |
| ▪ Port Size | 3/4" BSPP (G) |

VENTURI PUMP

HC-P 10063

APPLICATION

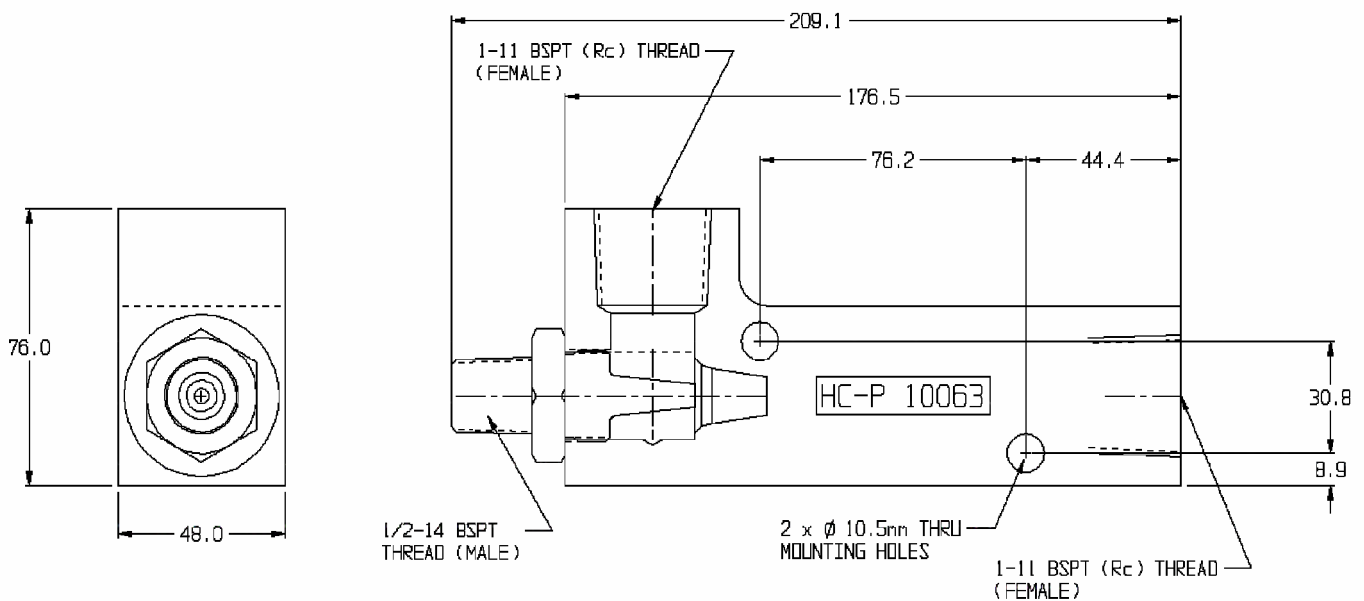
This stainless steel Venturi Pump facilitates sucking of hydraulic fluid from tanks for refill purposes using a fluid supply pressure.

OPERATION

Fluid pressure supply is attached to the pump, which creates a venturi vacuum at the pump inlet port, such that it sucks fluid from the tank and deposits it into a new container. This eliminates the need for either a mechanical pump or an electric pump.

FEATURES

Designed and made in Australia. All parts are stainless steel ensuring long life in hazardous areas. Weight 1.80 kg.



CARTRIDGE VALVES

Our extensive range of cartridge valves offer numerous solutions to various applications and can be designed into Hydraulic Integrated Circuits (HICs). Cavities are available to various international standards.

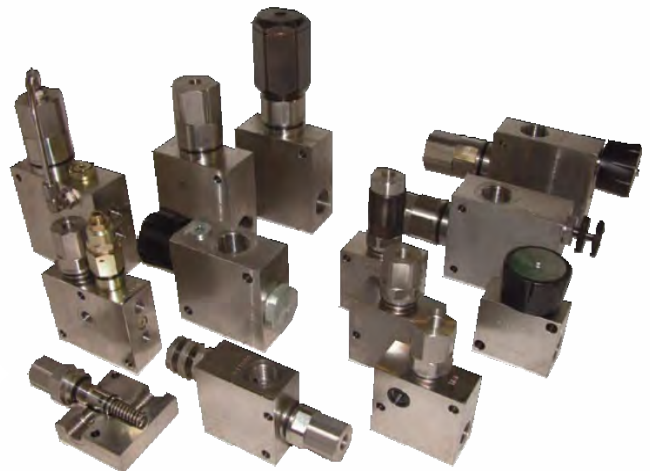


EXPLOSION PROOF VALVES

Our range of explosion proof valves and HICs have been successfully proven in mining and other hazardous applications for more than two decades. We monitor and adhere to changing regulations for mine applications.

HIGH PRESSURE WATER VALVES

Our exclusive range of Australian designed water valves are manufactured from high-grade stainless steel, to provide reliability and long life durability in mining and other hazardous applications. Many new designs can be made to order to suit our customers' specific applications.



HYDRAULIC INTEGRATED CIRCUITS

Hydraulic Integrated Circuits are compactly designed to meet our customers' specific applications. Fast turn around of quotations and prototypes allow customers to test the system quickly. HICs provide greater leak free reliability and eliminate considerable cost on pipework.

For enquiries please contact our
Technical Sales Team directly;

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Neal Tuituu: 0455 025 706

Alternatively contact us via
the office on **02 9938 5400**



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