



Performance Under Pressure



Multi-Tool Control Valves

Specifications

Flow:	2.6-16 GPM (10-60 L/min)
Pressure:	50,750 (3500 bar)
Discharge Connections:	M26 x 1.5 IG Female
Bypass Connection:	1" BSP
Air Required:	14.5-87 PSI (1-6 bar)
Standard Configuration*:	2 tools, but additional tools can be added

Application

- Work with multiple tools, such as shut-off gun, surface cleaner, rotating nozzles, tank washing head, etc.

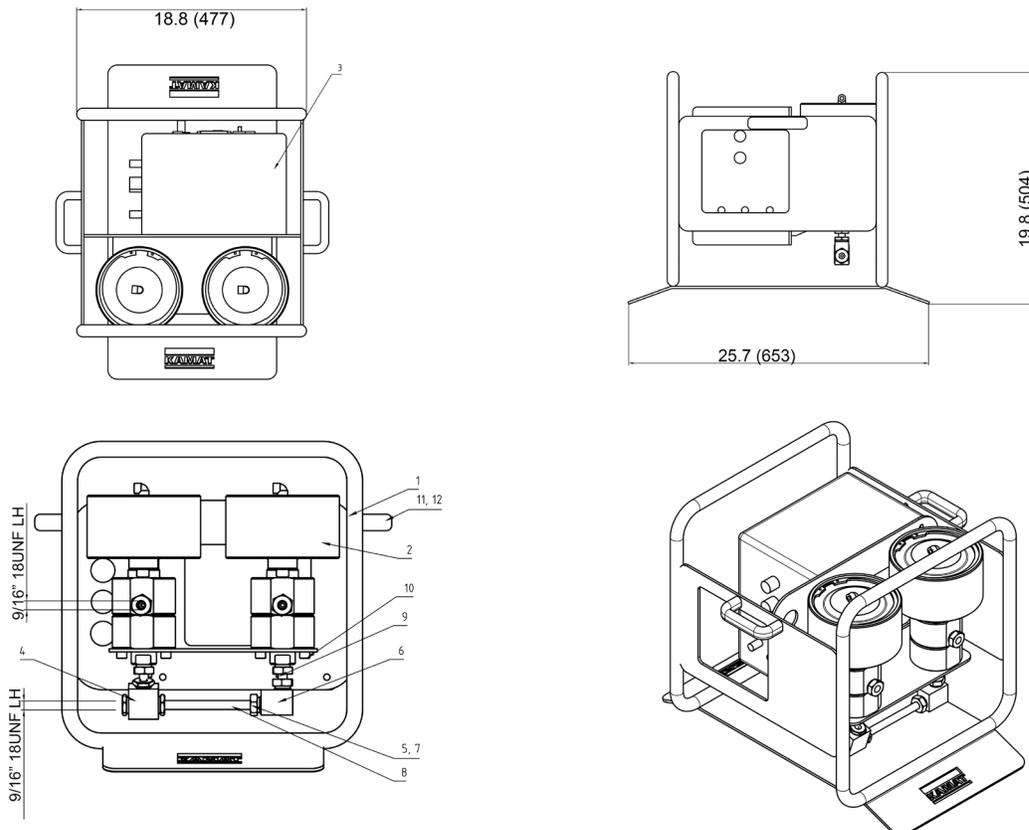
Benefits

- Allows each tool to run independently with the flow and pressure required
- No pressure in inactive lines
- Instant and accurate regulation of pressure
- Automatic compensation for nozzle wear
- Different pressure settings available for each tool
- Easy configuration for multiple tools

Material

Designed with 2/2 way valve with ceramic (for less wear). All parts that come into contact with fluids are stainless steel and seawater-resistant materials (upon request).

Dimensions - Inches (mm)



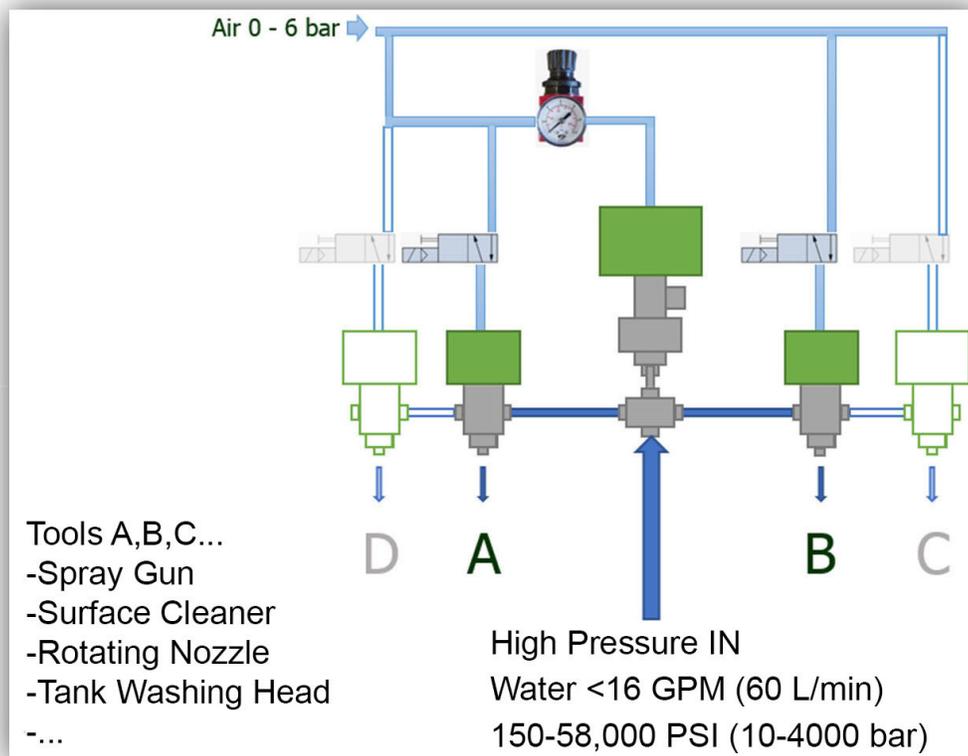
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Function

A dual or multi-consumer control is always needed when the pump capacity of a high-pressure pump has to be distributed over several tools. This is expensive because when connecting and disconnecting tools, the pressure in the pipe system when switching off tools increases inadmissibly or decreases when switching tools in the already used tools. This cannot be compensated by a speed control of a pump, because of the existing inertia of the system it would not be fast enough. Nowadays the industry is working with equalizing nozzles, through which the high-pressure water is expanded and discharged. The valve technology is complicated and expensive.

KAMAT has developed a pressure control valve that can reliably control high pressure water up to 16 GPM (60 L/min) up to a pressure of 58,000 PSI (4000 bar). Both the number of tools and their nozzle water consumption is irrelevant. The valve keeps the set pressure constant on the working side. Pressure surges in the tools are completely compensated and are not noticeable. If a consumer is switched off, the pressure cylinder and remains constant. The valve is suitable for building multi-user systems as well as for implementing dual-pressure controls with low cost pneumatic components. Even stepless high pressure control can be done with the use of a pneumatic proportional servo valve.

The multi-user control consists of the pressure control valve described above and an additional shut-off valve for each tool. The shut-off valve is usually actuated via an electrical switch directly on the actuating element of the tool. If the high-pressure supply to a tool is switched off by the shut-off valve, the pressure regulating valve directly regulates the constant pressure and discharges excess high-pressure water. Conversely, when connecting a consumer, the high pressure water immediately and without pressure drop to the working tool, this made available. The pending pressure is set via the pneumatic pre-pressure with closed tools. A pressure drop only occurs when all consumers consume more water than the high pressure pump can provide.



WARNING: This product might contain a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov