

Air Driven Hydraulic Pumps – J Series

How to Order

Model Part Number Coding

The letter “S” preceding the basic part number refers to the manufacturer’s name, Sprague Products. The letter or letters following the part number refer to the model configuration. These letters include:

J	=	Standard, lubricated air
JN	=	Standard, non-lubricated air
JD	=	Double-acting, lubricated air
JDN	=	Double-acting, non-lubricated air
JR	=	Standard with reservoir, lubricated air
JNR	=	Standard with reservoir, non-lubricated air
JS	=	Non-contaminating, separated, lubricated air
JSN	=	Non-contaminating, separated, non-lubricated air
S	=	De-ionized water service, lubricated air
SN	=	De-ionized water service, non-lubricated air
GJC	=	S-218 pumps

The dash number following the configuration letter or letters refers to the pump or booster nominal pump ratio.

Example: S-216-J-60 = 60:1 pump nominal ratio.

How To Order Pumps

To order a hydraulic pump or power unit, the nominal ratio of the pump must be determined. Knowing the liquid pressure and flow requirements of the application as well as the available air pressure to operate the pump, refer to the Pump Ratio Selection Charts on page 7.

As an example, if the air supply is 100 psi and system requirement is for 1000 psi liquid discharge pressure with a 170 cubic inch per minute flow rate or capacity, the pump nominal ratio indicated on the Chart will be 60:1.

Selection of the “-60” pump means that by adjusting the driving air supply at the pressure regulator, the pump will develop any adjusted liquid output pressure ranging anywhere between 1500 psi and 6100 psi.

Use this pump ratio number as a dash number and add it to the end of the pump model number:

S-216-J-60
Standard Part Number ——— Pump Nominal Ratio (60:1)

When ordering, specify the quantity required and the liquid service. The standard S-216-J pump has a stainless steel (at no added cost) liquid body and is furnished with nitrile O-rings.

Sprague Products pumps can be furnished with other O-ring materials: Viton®, Neoprene, EPR and other compounds. For questions regarding liquid/seal compatibility, contact Sprague Products for recommendations for the seal compound suited to the application.

Also, when ordering, specify operating temperature range (if known) and any other special conditions applicable.

The “GJC” letter combination is part of the S-218-GJC-() pump basic part number. The dash number, -45 or -65, refers to the pump nominal ratio. Example:

S-218-GJC-45
Standard Part Number ——— Pump Nominal Ratio (45:1)

Pumps For Freon® Service

Sprague Products pumps can be ordered with minor modifications from the factory to service most liquid Freon refrigerants, solvents and fire extinguishing agents. Suitable seals, compatible to these liquids, are installed in the liquid body and in the inlet and outlet check valves. The pump may require other minor modifications.

When ordering a pump for this special service, specify the exact Dupont designation to be used (i.e., 12, 22, etc.) or the specific designations of other liquids.