

CO₂ SERVICE GENERAL APPLICATION TABLE

The following table generally applies to all Smith pumps used for low-pressure liquid Carbon Dioxide transfer service. Note the highlighted area, which indicates the recommended conditions under which a standard unit is utilized. The "Model Type" and "Optional Features" shown below, are determined by the factory, according to the specific application. These letters are stamped on the pump label plate, immediately following the basic model number.

MAXIMUM APPLICATION LIMITS FOR SMITH "ATC, MC, AND SQ-SERIES" PUMPS HANDLING LOW-PRESSURE LIQUEFIED CARBON DIOXIDE, FROM -20° F. TO +15° F.

<u>Max. Use Interval</u>	<u>Recommended RPM</u>	<u>Max. PSID</u>	<u>Model Type</u>	<u>Optional Features</u>
1 Hr.	1400 - 1800	50	Std.	NS,SA,L,H,F,Z
2 Hrs.	1400 - 1800	50	Z	NS,SA,L,H,F
6 Hrs.	1100 - 1300	40	NSZ	SA,L,H,F
Over 6 Hrs.	750 - 1000	40	HNSSA Z	F,L

This table serves as a general basic application guide. Contact the factory for additional information on use under different circumstances. "ATC" units are always provided with flanges. "SQ" units are always provided with threaded ports. "MC" units with nominal capacities rated at above 35 GPM are optionally flanged. All of these pumps can be reduction-run or direct-connected to electric motors. See the product line catalog for additional information. Before using any of these pumps under any conditions, be sure to read and understand all information available from Smith Precision, in the applicable authoritative references, and as described in the appropriate safety standards. Avoid hazardous use conditions.

EXPLANATION OF SMITH PUMP CONSTRUCTION CONFIGURATIONS USED IN DIFFERENT "MODEL TYPES" AND "OPTIONAL FEATURES".

<u>Designation Code</u>	<u>Description</u>
S	Extended temperature, pressure, and/or viscosity
NS	High range gears: AIRCRAFT QUALITY STEEL
SA	Enhanced stress-resistant idler shafts: TUNGSTEN CARBIDE
H	Maximum flow gearing: for LOWER RPM APPLICATIONS
L	High-capacity standard configuration gearing: 25% INCREASE
FM	Foot-mount bracket for mounting small pumps directly to base
F	Smith companion flanged ports for "MC-Series" (MC-2F through MC-5F)
Z	Heavy-duty mechanical seals: "SUPERSEAL"

"Optional Features", and "Model Types", are factory designations determined by pumping requirements. The basic model number stamped on the pump will be followed by any of the pertinent "Designation Codes" mentioned above. Together they make up the use-specific pump model number.



SMITH PRECISION PRODUCTS COMPANY

P.O. Box 276, Newbury Park, CA 91319 USA
 1299 Lawrence Drive, Newbury Park, CA 91320 USA
 Tel.: 805/498-6616 FAX: 805/499-2867

e-mail: INFO@smithpumps.com web: www.smithpumps.com