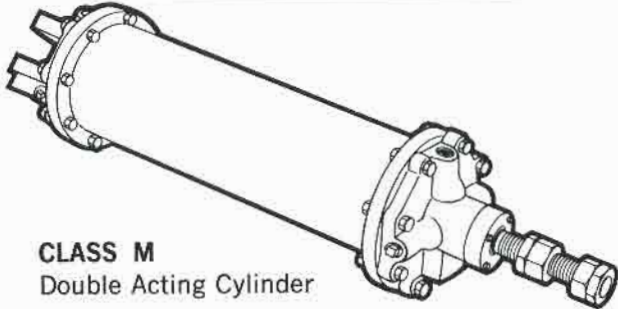


NOPAK

CLASS M



CLASS M
Double Acting Cylinder

NOPAK Class M cylinders are strong and rugged in construction, especially designed for heavy duty applications in mines, quarries, steel mills, and in the heavy construction industries. Maximum system pressure is 650 psi in all diameters to 4" – and 450 psi in diameters of 5" and larger. The Class M construction is available in a full range of sizes and models (mountings) up through 14" in diameter for air, water or oil hydraulic service.

NO TIE RODS – Cylinder flanges are welded to steel cylinder tubing. High tensile alloy iron* heads are bolted to those flanges.

Chrome plated or stainless steel piston rods and chrome plated or brass lined cylinder tubing can be furnished for water hydraulic applications.

**Steel heads are available at extra cost.*

CLASS M — PISTON ROD THREAD DIMENSIONS (Also Class 1 and 2 Standard Oversize) See Clevis Information Page 13

Rod End	CYLINDER DIAMETER										
	1½	2	2½	3	4	5	6	8	10	12	14
Thread	7/8-14	7/8-14	1-14	1-14	1¼-12	1¼-12	1½-12	1¾-12	2¼-12	2¾-12	3-12
OB-1 Dim.-C	1½	1½	1¾	1¾	2½	2½	2½	2½	3½	4¾	4¾
Dim.-K	1¼	1¼	1½	1½	1¾	1¾	2¼	2¼	3¾	4½	4½
Thread	½-20	½-20	½-20	½-20	5/8-18	5/8-18	¾-16	1-14	1¼-12	1½-12	1¾-12
OB-2 Dim.-C	1½	1½	1¾	1¾	1¾	1¾	2½	2½	3¼	4	4
Dim.-K	7/8	7/8	7/8	7/8	1½	1½	1¾	2¼	2	2¾	2¾
Thread	5/8-18	5/8-18	¾-16	¾-16	1-14	1-14	1¼-12	1½-12	2-12	2½-12	2½-12
OB-3 Dim.-C	1½	1½	1¾	1¾	1¾	1¾	2½	2½	3¼	4	4
Dim.-K	7/8	7/8	1½	1½	1½	1½	1¾	2¼	3	3¾	3¾

MINIMUM I DIMENSIONS — CLASS M MODEL F CYLINDERS

Bore	1½	2	2½	3	4	5	6	8	10	12	14
I Dimension	5	5	6	6	7½	7½	8½	10¾	11¾	15¼	15¾

DIMENSIONS

For mounting dimensions of Class M cylinders, use figures from tables of corresponding Class 1, shown on preceding pages, with exception of Piston Rod Diameter and Piston Rod Extension which are shown in tables above. Please note that dimension "I" varies from Class 1 or Class 2 dimension "I" as shown.

SERIES HCM — MILL TYPE

These pragmatic designs, developed and marketed by Midwest Hydraulics Co. during their 30 active years, now enable NOPAK (which acquired Midwest in '93) to produce an endless variety of high pressure hydraulic Mill type cylinders.

The aforesaid designs, evolving from the evermore challenging demands for gigantic Mill types, now place NOPAK in the forefront.

We welcome the opportunity to quote your most challenging applications. Request Catalog HCM-89 for information.