

Operation Instructions for the MP-CT Hydraulic Pressure Intensifier



Function:

The MP-CT Hydraulic Pressure Intensifier is used to increase a supplied pressure to a higher end pressure. The end pressure is proportional with the ratio chosen, and the max. end pressure achievable is dependent on the ratio chosen, see the table Technical data.

A p.o. check valve POV is integrated in the MP-CT, allowing the higher pressure to be relieved back to tank through the intensifier. Fig. 1 shows the schematic of the MP-CT intensifier.

Connecting the MP-CT:

The MP-CT is designed for the cetop D03 (NG6) stacking system.

To make the MP-T increase a supplied pressure, the A-port must be pressurized and the B-port connected to tank. The HP- port has the connection G1/4" (1/4" BSPP) and must be connected to the cylinder/part requiring higher pressure.

Operation Conditions:

-Ensure there is no swarf or contamination, which can enter the intensifier

-Ensure the oil has a cleanliness of 10 micron nominal, max. 19/16 according to ISO 4406, We recommend the use of a pressure filter.

-Bleed the hydraulic system for air to avoid malfunction.

-Use with standard hydraulic oils with viscosity 30 - 50 cSt or water glycol (min 5% glycol)

Due to the structural design of the MP-CT intensifier there is an internal leakage, which will drain off to the B-port.

Dimensions:

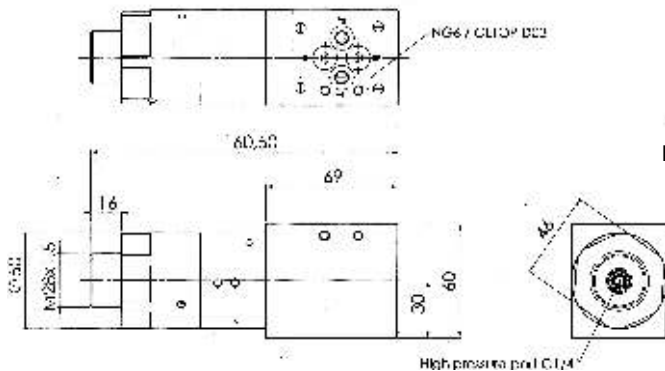
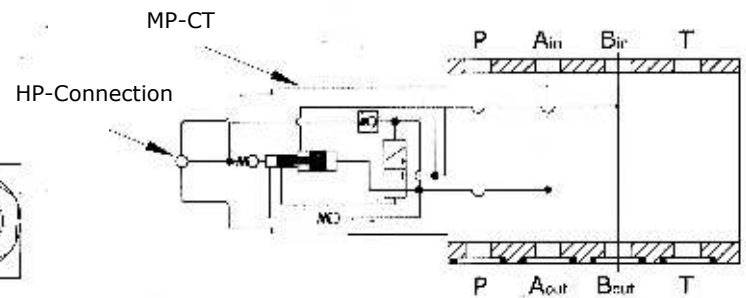


Fig. 1



Technical data:

Order Code	Ratio	Max. Q _{inlet} (LPM)	Q1 outlet flow at start of cycle (LPM)	Q2 outlet flow during pressure increase (LPM)	Max. supply pressure (bar)	Max. end pressure (bar)
MP-CT-1.5	1.5:1	8	0.8	0.3	200	300
MP-CT-2.0	2.0:1	15	2.2	0.5	200	400
MP-CT-3.4	3.4:1	15	2.2	0.5	200	680
MP-CT-4,0	4.0:1	14	1.8	0.4	200	800
MP-CT-5.0	5.0:1	14	1.4	0.3	160	800
MP-CT-7.0	7.0:1	13	1.1	0.2	114	800
MP-CT-9.0	9.0:1	13	0.7	0.1	89	800

IMPORTANT NOTICE:

Flow and pressure settings must be kept strictly within the limits according to the values in the Technical data table. Otherwise damage may occur to personel or components