

Manifold Mounted Control Valve



Similar to Hytec's 100969 and 100970, this 3-way/4-way, two-position directional control valve is ideal for manifold mounting on your fixture. The valve's zero-leakage design is the right choice for constant pressure applications. Its smaller size allows you to maximize usable fixture space.

This valve is designed with a standard ANSI, DO3 mounting and port configuration. The control lever can be placed in any of 24 positions without tools. Infinite adjustments are possible by loosening a locknut. Internal stops and detents along with a shaft wiper seal provide excellent contamination resistance.

Built without check valves, this valve is intended **only** for systems with one valve per

hydraulic pressure source. For multiple valve applications, simply add the 100974 check valve sub-plate. Ported subplates 100972 and 100973 or manifold 100975 can also be added as appropriate.

Features:

- 3-way/4-way, 2-position, detented
- ANSI, DO3 mounting configuration
- Single or double acting systems
- Manually operated, 90 deg. swing
- 1500 psi max. return line pressure
- Optional SAE or NPT ported subplates
- Infinite handle adjustment
- 5,000 psi max.
- Shaft wiper excludes contaminants
- Optional check-valve subplate

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DO3 Manifold Mounting Surface

Cat. No.	Dimensions (In Inches)				
	A	B	C Rad.	D	E
100971	2.144	4.187	2.480	2.000	1.948

#10-24UNC X 2.25 Lg. Mounting screws (4) Included.

DO3 Mounting Pattern	Dimensions (In Inches)																		
	"A" Port Dia. Max	"B" Port Dia. Max	C	D	E	F	G	H	J	K	L	M	N	"P" Port Dia. Max.	Q Min.	R Min.	† S Dia.	"T" Port Dia. Max.	†† U Thread Size
		.250	.250	.030	.200	.610	1.020	1.220	1.250	.500	.850	1.190	1.300	1.594	.250	1.970	2.000	.160	.250

NOTE: † Location hole to be .160 deep min.
†† Minimum thread depth .200

See p. 98 for sub-plates and manifolds.



Single-station Sub-Plates No. 100972 and 100973

These D03 sub-plates are for use with the 100971 directional control valve and 100974 check valve sub-plate. These assemblies will provide conventionally ported, remote mounted, directional control valves for use in multiple valve systems. These sub-plates may also be used with the 100971 directional control valve only in single valve systems. (For single valve applications, consider using valves 100969 and 100970.) Optional mounting bracket (No. 500175) is available (see p. 95).

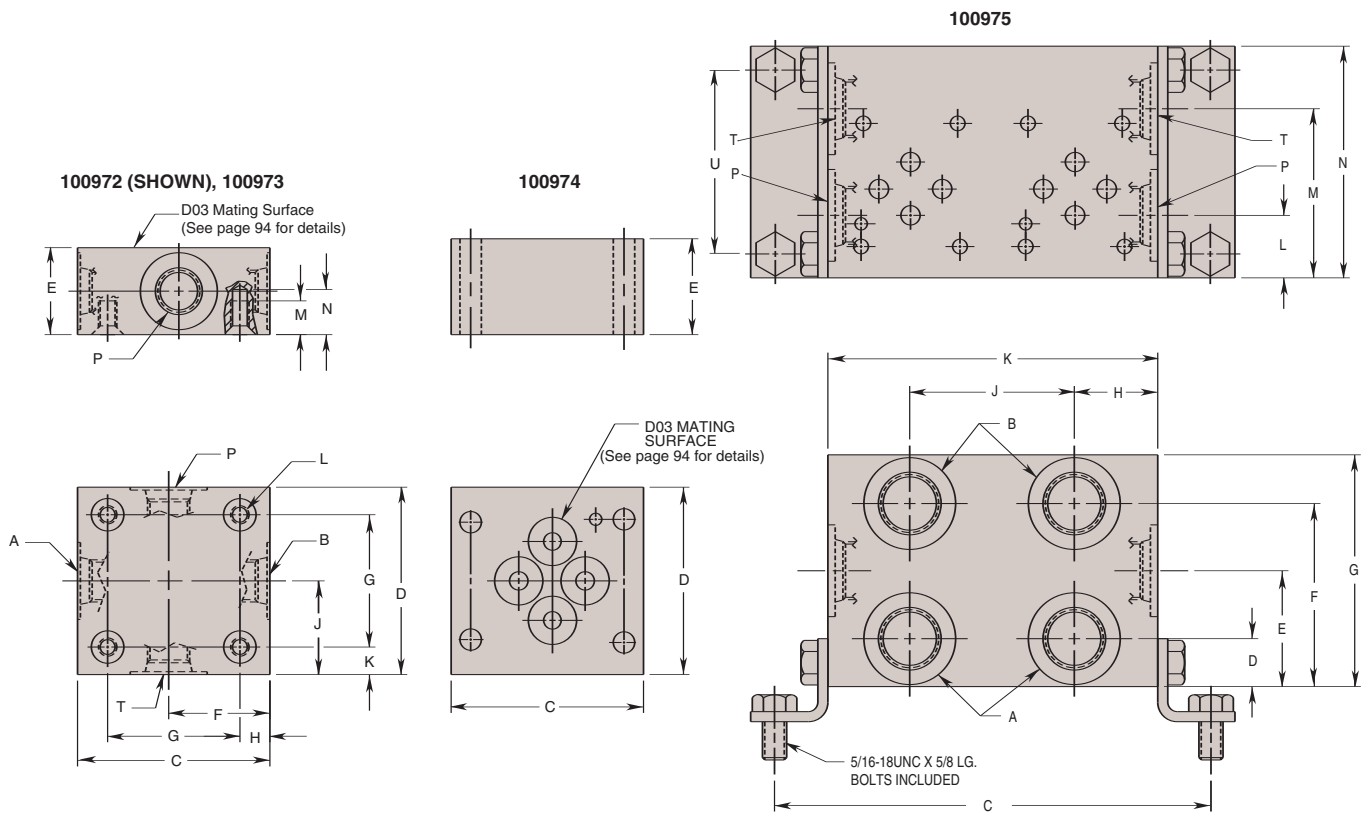
Two-Station Manifold No. 100975

This manifold provides for mounting two, 100971 directional control valves. External plumbing is reduced because both D03

mounting patterns share the same pressure and tank ports. Check valve sub-plate 100974 must also be used in workholding circuits.

Check Valve Sub-Plate No. 100974

Use this in directional control valve in applications requiring inlet and outlet checks. (Ports P and T) When two or more valves are connected to the same pressure source, these check valves prevent pressure fluctuations in one system from affecting the other. Without this check valve sub-plate, the shifting of one valve in a system can cause the loss of clamping pressure in another. This check valve sub-plate uses the same D03 mounting configuration as our 100971 directional control valve. It is simply placed underneath the valve. Mounting screws are included.



Cat. No.	Dimensions (In Inches)														
	"A" Port	"B" Port	C	D	E	F	G Mtng.	H Mtng.	J	K Mtng.	L Thread Size	M Min. Thread	N	"P" Port	"T" Port
100972	1/16-20 UNF SAE-4	1/16-20 UNF SAE-4	2.00	1.948	.904	.947	1.375	.313	.974	.287	10-24 UNC	.260	.452	1/16-20 UNF SAE-4	1/16-20 UNF SAE-4
100973	1/4 NPTF	1/4 NPTF			1/4 NPTF	1/4 NPTF									
100974†	—	—	—	—	.997	—	—	—	—	—	—	—	—	—	—

NOTE: † 100974 Check Valve includes (4) #10-24 UNC x 3.25 Lg. Mounting Screws.

Cat. No.	Dimensions (In Inches)															
	"A" Port	"B" Port	C	D	E	F	G	H	J	K	L	M	N	"P" Port	"T" Port	U
100975	3/16-16UNF SAE-8	3/16-16UNF SAE-8	5.630	.630	1.500	2.380	3.000	1.060	2.130	4.250	.810	2.190	3.000	3/16-14UNF SAE-10	3/16-14UNF SAE-10	2.38