

Section 7 Logic Manifolds

RA 09 907/07.04

The Drive & Control Company

Logic Manifold Features

- Sizes 16 to 63 available
- One design to provide various control functions by orifice/plug provisions
- Provided configuration per chosen model code

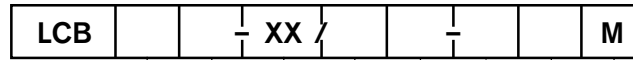


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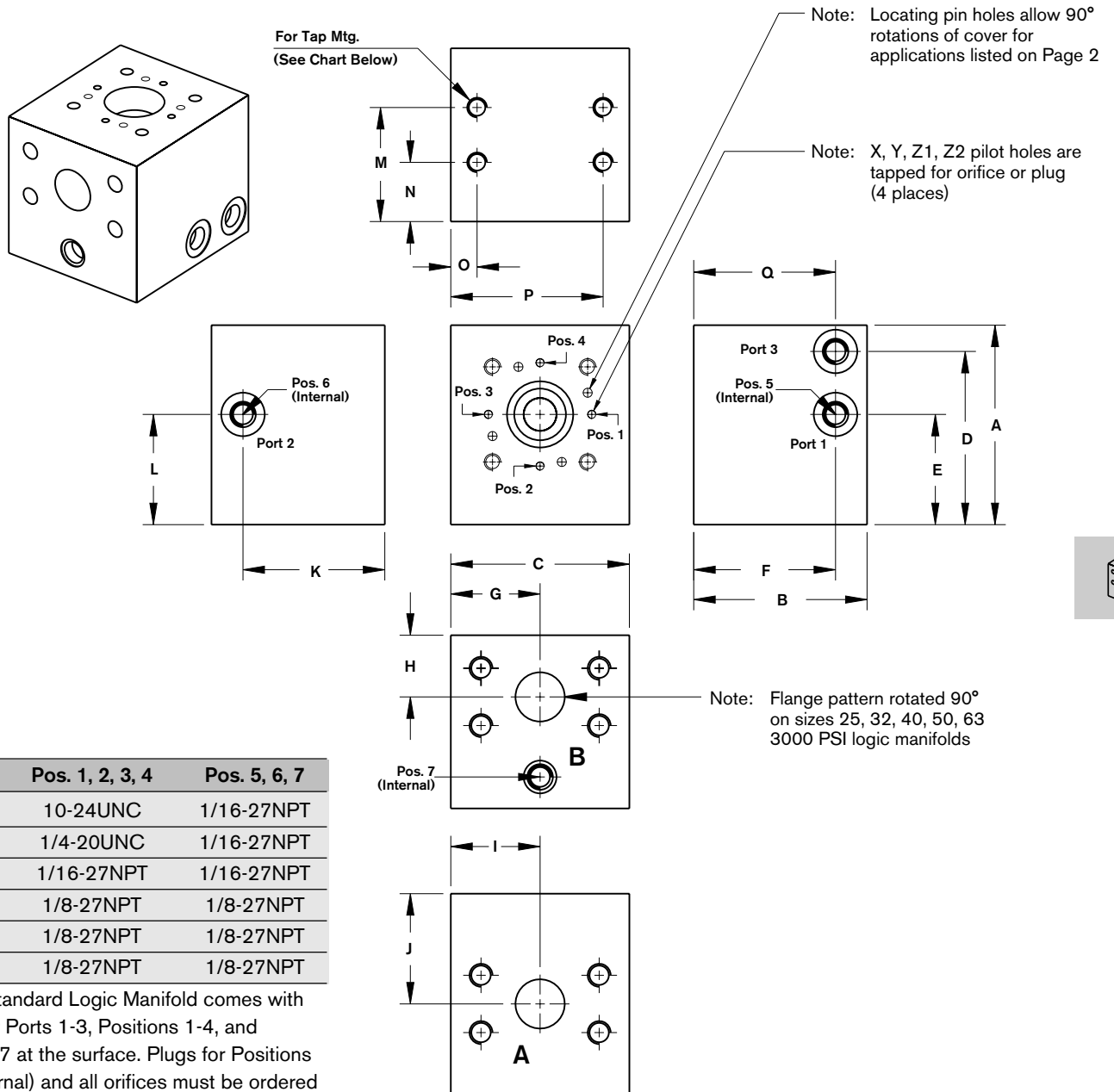
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Logic Manifolds

Logic Control Block



Nominal Size	= 16-63					M=	Metric
Pressure Range						Omit =	Standard
Normal (Code 61)		= N				A-Z =	See Page 3 for Configuration
High (Code 62)		= H				07 =	SAE Flange
Revision			= XX			1 =	Number of Cartridge per Block
Material				= D			
Ductile Iron ¹ 65-45-12, 5000 psi							



Size	Pos. 1, 2, 3, 4	Pos. 5, 6, 7
16	10-24UNC	1/16-27NPT
25	1/4-20UNC	1/16-27NPT
32	1/16-27NPT	1/16-27NPT
40	1/8-27NPT	1/8-27NPT
50	1/8-27NPT	1/8-27NPT
63	1/8-27NPT	1/8-27NPT

Note: Standard Logic Manifold comes with plugs for Ports 1-3, Positions 1-4, and Position 7 at the surface. Plugs for Positions 5-7 (internal) and all orifices must be ordered separately.

1)Blackening

Logic Manifolds

Logic Control Block

Size	PSI	Flg	Tap Mtg.	Port 1-2-3	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
16	N 5000	1"	3/8- 16x0.75	SAE-4	3.80	3.30	3.40	3.30	2.10	2.70	1.70	1.18	1.70	2.10	2.70	2.10	—	1.60	0.50	2.90	—
16	H 6000	1"	3/8- 16x0.75	SAE-4	3.80	3.30	3.40	3.30	2.10	2.70	1.70	1.18	1.70	2.10	2.70	2.10	—	1.60	0.50	2.90	—
25	N 4000	1.25"	3/8- 16x0.75	SAE-4	3.90	3.70	3.70	3.45	2.22	3.20	1.85	1.58	1.85	2.22	3.20	2.22	—	2.00	0.47	3.22	—
25	H 6000	1.25"	7/16- 14x0.80	SAE-4	4.50	4.20	3.80	3.95	2.70	3.50	1.90	1.55	1.90	2.70	3.50	2.70	—	2.00	0.50	3.30	—
32	N 3000	1.50"	1/2- 13x0.75	SAE-4	4.50	4.50	4.20	4.00	2.48	3.80	2.10	1.90	2.10	2.48	3.80	2.48	—	2.50	0.47	3.72	—
32	H 6000	1.50"	1/2- 13x0.75	SAE-4	5.40	4.80	4.50	4.90	3.30	3.80	2.25	1.90	2.25	3.30	3.80	3.30	—	2.50	0.50	4.00	4.15
40	N 3000	2.00"	5/8- 11x1.0	SAE-6	5.40	5.30	5.00	4.80	2.87	4.60	2.50	2.32	2.50	2.87	4.60	2.87	—	3.00	0.62	4.37	—
40	H 6000	2.00"	5/8- 11x0.95	SAE-6	6.40	6.30	5.40	5.75	3.80	5.00	2.70	2.35	2.70	3.80	5.00	3.80	—	3.40	0.50	4.60	5.50
50	N 2500	2.50"	3/8- 16x0.75*	SAE-6	6.20	6.20	5.70	5.50	3.23	4.80	2.85	2.58	2.85	3.23	5.40	3.23	5.75	3.00	0.53	5.15	—
50	H 2000	2.50"	3/8- 16x0.70*	SAE-6	6.80	6.90	7.00	6.25	4.00	5.50	3.50	2.60	3.50	4.00	5.50	4.00	6.00	3.00	0.60	0.60	4.50
63	N 2000	3.00"	7/16- 14x1.0	SAE-6	7.70	8.70	7.40	7.00	4.05	7.00	3.70	3.39	3.70	4.05	7.00	4.05	8.13	3.75	0.51	6.89	—
63	H 2000	3.00"	7/16- 14x0.70	SAE-6	9.10	8.30	8.50	8.35	5.40	7.00	4.25	3.50	4.25	5.40	7.00	5.40	7.50	3.50	0.50	7.70	6.50

*LCB50 logic cover mounting taps are machined for UNC covers only, consult factory if using covers with metric mounting.

Logic Manifolds

Logic Control Block

Configuration	X	Y	Z1	Z2	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	Pos. 6	Pos. 7
Standard	—	—	—	—	X	X	X	X	O	O	O
A	Ext. Port 1	Ext. Port 2	—	—	O	X	O	X	X	X	X
B	Int. "A" Side	Ext. Port 2	—	—	O	X	O	X	O	X	X
C	Int. "B" Side	Ext. Port 3	—	—	X	O	X	O	X	X	X
D	Ext. Port 1	Int. "A" Side	—	—	O	X	O	X	X	O	X
E	Int. "B" Side	Int. "A" Side	—	—	X	O	X	O	X	X	O
F	Ext. Port 3	Int. "B" Side	—	—	X	O	X	O	X	X	X
G	Int. "A" Side	Int. "B" Side	—	—	X	O	X	O	X	X	O
H	Ext. Port 2	Ext. Port 1	Int. "A" Side	—	O	X	O	O	X	X	O
J	Ext. Port 1	Ext. Port 2	Int. "B" Side	—	O	O	O	X	X	X	X
K	Int. "A" Side	Ext. Port 1	Ext. Port 3	—	O	X	O	O	X	O	X
L	Int. "B" Side	Ext. Port 5	Ext. Port 2	—	X	O	O	O	X	X	X
M	Int. "A" Side	Ext. Port 2	Int. "B" Side	—	O	O	O	X	O	X	X
N	Int. "B" Side	Ext. Port 3	Int. "A" Side	—	X	O	O	O	X	O	X
O	Int. "B" Side	—	Int. "A" Side	Ext. Port 1	O	O	O	X	X	O	X
P	Int. "A" Side	—	Int. "B" Side	Ext. Port3	O	O	X	O	O	X	X
S	Int. "A" Side	Ext. Port 1	Ext. Port 3	Int. "B" Side	O	O	O	O	X	O	X
T	Int. "B" Side	Ext. Port 3	Ext. Port 2	Int. "A" Side	O	O	O	O	O	X	X
U	Int. "A" Side	Ext. Port 2	Int. "B" Side	Ext. Port 3	O	O	O	O	O	X	X
V	Int. "B" Side	Ext. Port 3	Int. "A" Side	Ext. Port 1	O	O	O	O	X	O	X
W	Int. "B" Side	—	—	—	X	O	X	X	X	X	X
X	Ext. Port 1	—	—	—	O	X	X	X	X	X	X
Y	Int. "B" Side	—	—	—	X	O	X	X	X	X	O

O = Open X = Plugged

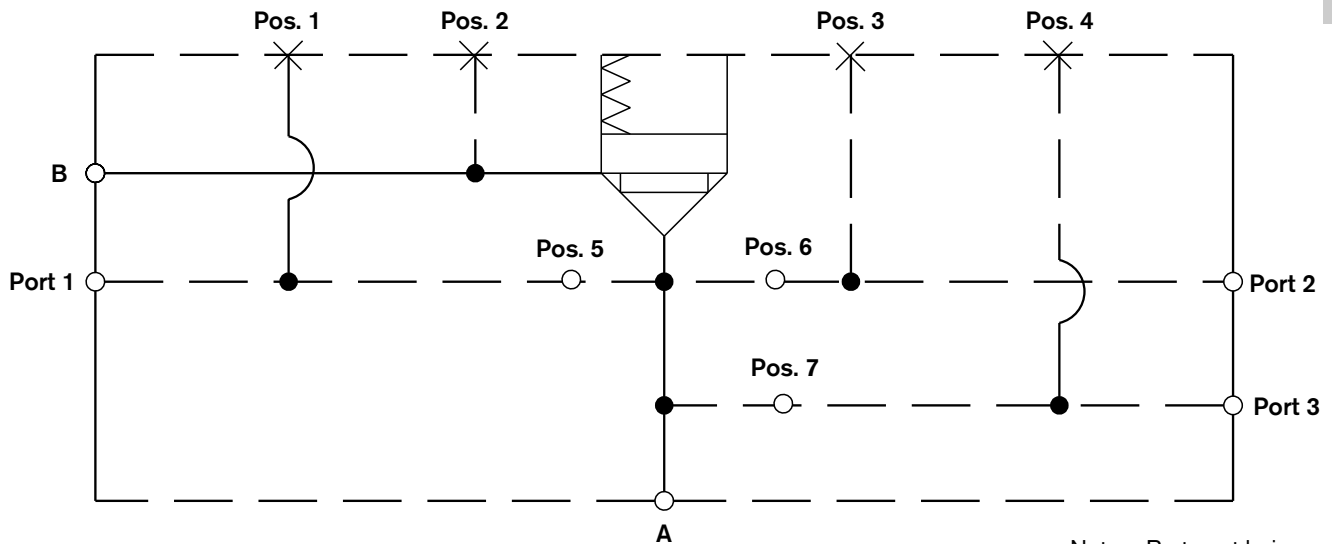


Illustration of "standard" plug configuration

Note: Ports not being used must be plugged

