



Hydraulic Manifolds & Manifolding Accessories

Inline Bar Manifolds + Integrated Circuit Bar Manifolds + Subplates
Cover Plates + Valve Adaptors + Header & Junction Manifolds + Accessories



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magnaLoY coupling company 501 Commerce Drive Alpena, MI 49707 989 356-2186

A Division of Douville Johnston Corporation Fax: 989 354-4190 <http://www.magnaLoY.com>

Catalog No. BM1205 ©2005 MagnaLoY Coupling Co.

MPS 1205-5M

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1. Inline Bar Manifolds

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2. Integrated Circuit Manifolds

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3. Subplates

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4. Cover Plates

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5. Valve Adaptors

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6. Accessories

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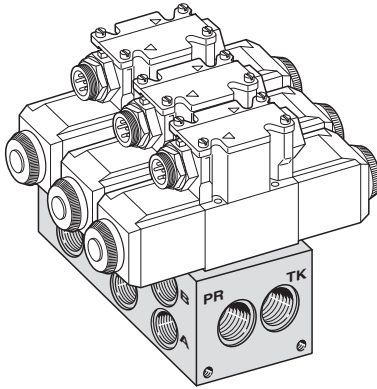
7. Header & Junction Manifolds

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R. Reference

R

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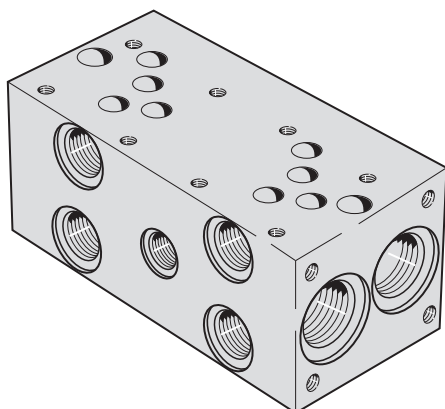


Standard Bar Manifold - includes specified NFPA valve pattern mounting on top of the manifold, A & B ports per specified thread type on the face of the manifold and pressure and tank ports per the specified thread type on each end of the manifold. Mounting provisions are included and defined on following manifold pages.

Options:

- Z - No Options** - indicates no options are provided (standard manifold)
- B - Bottom PR -TK ports** - additional pressure and tank ports per specified thread type located on the bottom of the manifold.
- C - Relief Valve Common Cavity** configurations added to the back surface of the manifold.
- G - Gauge Port** - addition of gauge port per specified thread type (see port size chart) to the face of the manifold to allow monitoring of the pressure "PR" passage.
- G4** - With Retro Design Manifolds Only - **#4 SAE Gauge Port** (with "S" thread code). Standard Gauge Port is #6 SAE (with "S" thread code) or 1/4 NPT (with "P" thread code).
- G6** - With Standard Design Manifolds - **#6 SAE Gauge Port** (with "S" thread code). Standard Gauge Port is #4 SAE (with "S" thread code) or 1/4 NPT (with "P" thread code).
- S - Relief Valve Sun Cavity** configuration added to the back surface of the manifold.
- H - Hard Metric Thread** - When British or Metric Thread type is specified, the valve and manifold mounting holes are also Metric Threaded.
- M - Soft Metric Thread** - indicates mixed metric threading. When NPT or SAE thread type is specified, valve mounting holes are metric threaded. No code "M" indicates the valve and manifold mounting holes are English threaded.
- I - Isolation Plug** - addition of an isolation plug(s) in the pressure or tank passage to provide signal isolation for valve operation. The location of the isolation plug is specified by indicating which station it is installed between. With the manifold positioned with the A & B ports facing forward, the valve mounting surfaces up and numbering from left to right, location A is between stations 1 & 2, location B is between stations 2 & 3, location C is between stations 3 & 4, etc. Isolation plugs can be installed in the pressure or tank passages or both. (See Note 1, next page and page 1-13)
- L - L Port** - addition of a drain port to the valve pattern on top of the manifold with a connecting port outlet on the back surface on the manifold. One port per station.
- O - Oversized A & B Ports** - (D05 High Flow and D05H-Alt.B only) - provides A & B ports machined oversized from the standard port size for additional flow capacity - see port size charts.
- P - Pilot Pressure** (D08 only) - addition of a pilot pressure signal port to the back surface of the manifold. One port per station.

1. Inline Bar Manifolds



Standard Bar Manifolds

- 1-1 NFPA D03 Directional Valves in Parallel Circuits
- 1-2 NFPA D03 Directional Valves in Series Circuits
- 1-3 NFPA D03 Retro Design Directional Valves in Parallel Circuits
- 1-4 NFPA D03 High Flow Retro Design Directional Valves in Parallel Circuits
- 1-5 NFPA D05 Directional Valves in Parallel Circuits
- 1-6 NFPA D05 Directional Valves in Series Circuits
- 1-7 NFPA D05 High Flow Directional Valves in Parallel Circuits
- 1-8 NFPA D05E Alt.A Directional Valves in Parallel Circuits
- 1-9 NFPA D05H Alt.B Directional Valves in Parallel Circuits
- 1-10 NFPA D08 Directional Valves in Parallel Circuits
- 1-11 NFPA D08 High Flow Retro Design Directional Valves in Parallel Circuits
- 1-12 NFPA D08 Directional Valve in Series Circuits

Bar Manifold Hardware

- 1-13 Isolation Plugs for factory and field installation
- 1-14 Mounting Bracket Kits

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MAGNALOY BAR MANIFOLD PART NUMBER BREAKDOWN

***B M - A H P 0 3 P 2 - 0 2 - 1 / C**

Product Code

- BM-Inline Bar Manifold
- BMR-Retro Inline Bar Manifold

Material Code

- A - Aluminum
- S - Ductile/Steel

Circuit Code

- HP - High Flow Parallel Circuit
- SP - Standard Flow Parallel Circuit
- SS - Series Circuit

NFPA Pattern Code

- 03 - D03
- 05 - D05
- 5E - D05E Alt. A
- 5H - D05H Alt. B
- 08 - D08

Thread Code

- P - NPTF Pipe
- S - SAE O'Ring
- B - BSPP British Parallel
- T - BSPT British Taper
- M - Metric ISO 6149

(See Port Size Chart for Standard Port Sizes)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-10-2, C-16-2
- G - Gauge Port #4 SAE or 1/4" NPTF
- G4 - Gauge Port #4 SAE
- G6 - Gauge Port #6 SAE
- L - L Port
- O - Oversized A and B Ports
- P - Pilot Pressures (Individual Per Station)
- S - Relief Valve Cavity Sun T-10A, T-3A, T-16A
- H - Hard Metric Threading ^{Note 2}
- M - Soft Metric Threading ^{Note 3}
- I - Isolation Plug ^{Note 1} - List as last option designated

Note: For more than two combined options, Consult Factory.

Design Series

Number of Valve Stations

- 01 - 1 stations
- 02 - 2 stations
- etc.

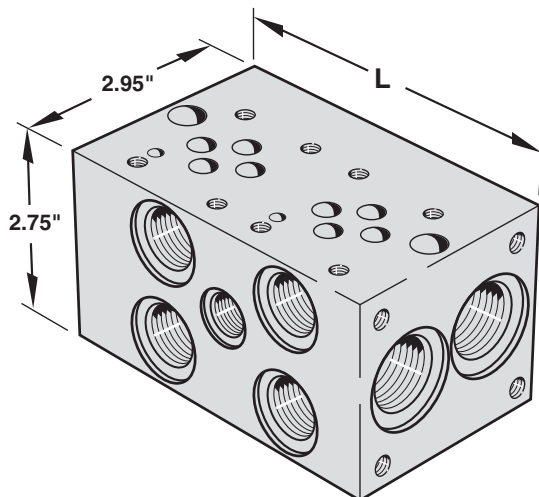
Valve Spacing Code

- D03 2 = 2.00" (2.13" on D03 Retro Design)
- 4 = 4.00"
- D05 3 = 3.25"
- 5 = 5.00"
- D08 5 = 5.25"
- 7 = 7.00"

(For Special Spacing requirements, please consult factory.)

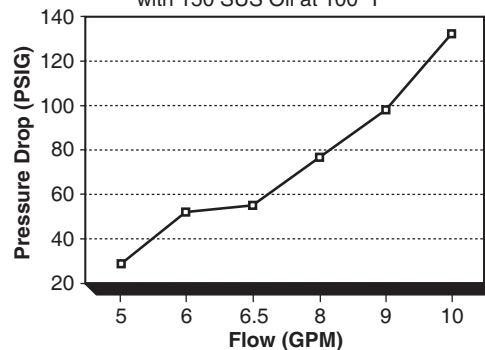
* Not all codes and options are available in combinations, see following Manifold Pages for specific Magnaloy standard configurations and options.

Notes:		1 - Isolation Plug Location is specified by using the following codes after the "I" option designation:
Port	Location*	Examples:
P - Pressure Port	A - Between Stations 1 & 2	Option Code for Pressure Isolation between stations 3 & 4 = IPC
T - Tank Port	B - Between Stations 2 & 3	Option Code for Tank Isolation between stations 1 & 2 = ITA
	C - Between Stations 3 & 4	Option Code for Pressure Isolation between stations 1 & 2 and
	D - Between Stations 4 & 5 (etc.)	Tank Isolation between stations 2 & 3 = IPATB
		*Location is determined with A & B ports facing forward, valves up and numbering from left to right
		2 - Hard Metric Threading - Used with British and Metric Thread Type to indicate Valve Mounting is also Metric Threaded
		3 - Soft Metric Threading - Used with NPT or SAE Thread Type to indicate Valve Mounting is Metric Threaded
		(No Code Designation Indicates Valve Mounting is English Threaded)



Flow from P to A/B Port

with 150 SUS Oil at 100° F



Dimensions

No of Stations	L	E	F
1	2.75" *	2.00"	-
2	4.75"	4.00"	-
3	6.75"	6.00"	-
4	8.75"	8.00"	-
5	10.75"	10.00"	-
6	12.75"	12.00"	-
7	14.75"	14.00"	8.00"
8	16.75"	16.00"	8.00"
9	18.75"	18.00"	8.00"
10	20.75"	20.00"	10.00"
11	22.75"	22.00"	8.00" & 16.00"
12	24.75"	24.00"	8.00" & 16.00"
13	26.75"	26.00"	8.00" & 16.00"
14	28.75"	28.00"	10.00" & 20.00"

Shaded area - Please consult factory for delivery.

* For Single Station with B, C, S, G, or G6 Options, "L" = 3.75"

Features & Advantages

- * The efficient design provides excellent flow rates with minimal pressure drop.
- * Standard end mount and through holes make mounting easy and flexible. Also, (when requested) mounting bracket kit BK-A03 (no charge) or flange mount kit FK-03 (additional cost) is available with the manifold as alternative mounting styles.
- * Available with SAE, NPTF, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- * Options include relief valve cavity, bottom PR & TK ports, and gauge port to fit specific circuit requirements.

MAGNALOY D03 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M - A S P 0 3 P 2 - 0 2 - 1 / C

Product Code
BM-Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SP - Standard Flow Parallel Circuit

NFPA Pattern Code
03 - D03

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric - ISO 6149

(See Port Size Chart for Standard Port Sizes)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-10-2
- G - Gauge Port #4 SAE or 1/4" NPTF
- G6 - Gauge Port #6 SAE
- S - Relief Valve Cavity Sun T-10A
- H - Hard Metric Threading² (See Notes: Page 1)
- M - Soft Metric Threading³ (See Notes: Page 1)
- I - Isolation Plug¹ - List as last option designated (See Notes: Page 1)

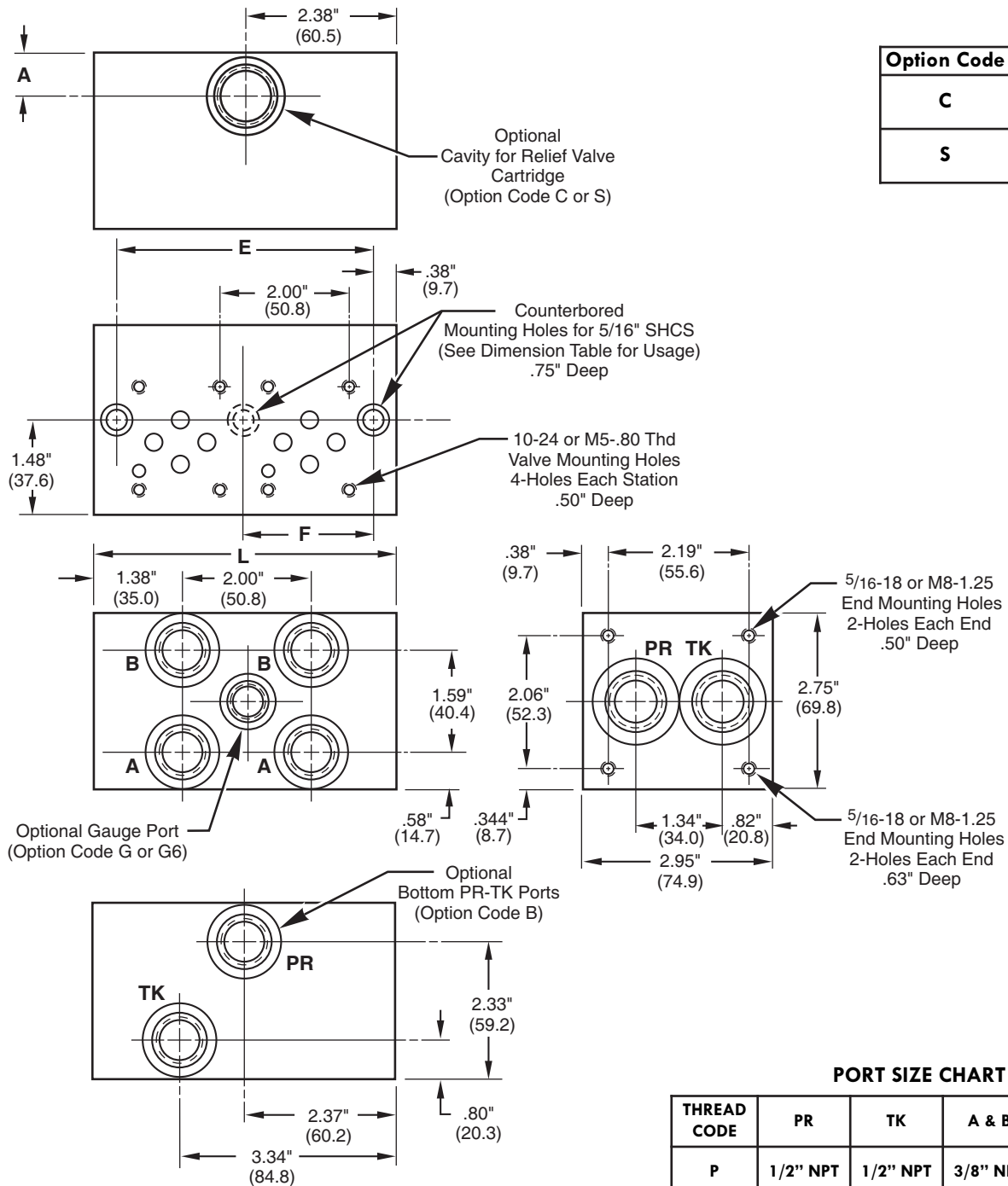
Note: For more than two combined options, please consult factory.

Design Series

- Number of Valve Stations
- 01 - 1 stations
- 02 - 2 stations
- etc.

Valve Spacing Code
2 - 2.00"
4 - 4.00"

(For Special Spacing requirements, please consult factory.)



Option Code	A
C	.69" (17.5)
S	.81" (20.6)

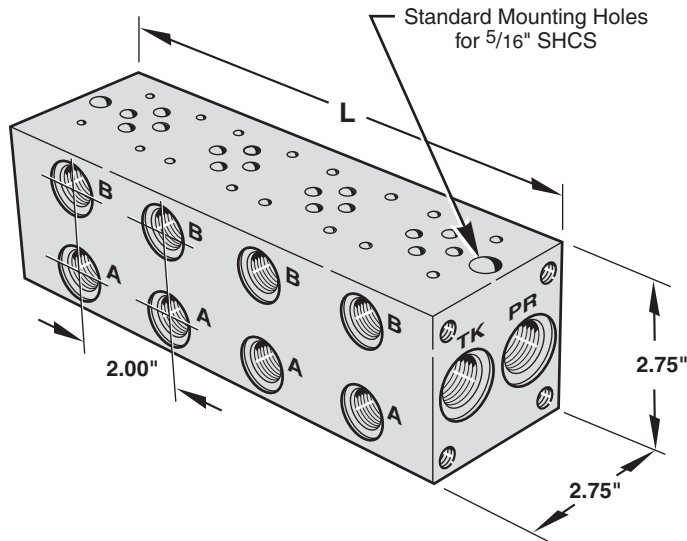


NOTE: For End Mounting Bracket Kit (BK-A03) and Mounting Flange Kit (FK-A03) dimensions, see page 1-14.

PORT SIZE CHART

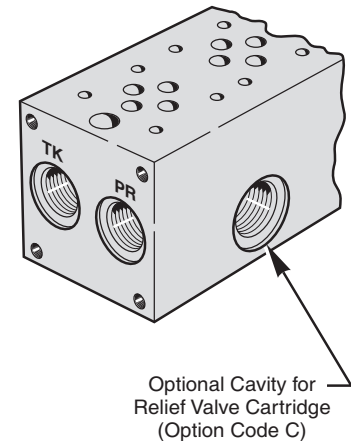
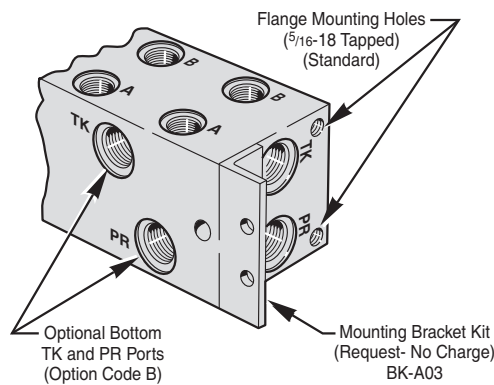
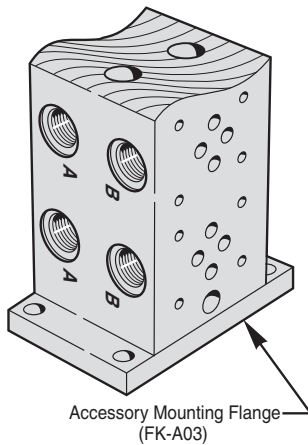
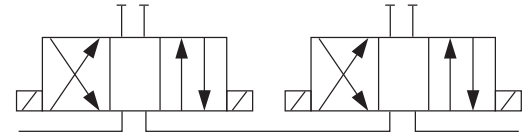
THREAD CODE	PR	TK	A & B	OPTIONAL GAUGE PORTS
P	1/2" NPT	1/2" NPT	3/8" NPT	1/4" NPT
S	#10 SAE	#10 SAE	#8 SAE	#4 SAE G6 - #6 SAE
B	1/2" BSPP	1/2" BSPP	3/8" BSPP	-
T	1/2" BSPT	1/2" BSPT	3/8" BSPT	-
M	M22	M22	M18	-

1



FEATURES AND ADVANTAGES

- * Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- * Adequate clearance for 5/8" tube fittings.
- * Mounting bolt spacing allows standardized mounting pads.
- * Tank and pressure lines may be connected at either end.



MAGNALOY D03 SERIES BAR MANIFOLD PART NUMBER BREAKDOWN

B M - A S S 0 3 S 2 - 0 1 - 0 / B

Product Code
BM-Inline Bar Manifold

Material Code
A - Aluminum
S - Steel

Circuit Code
SS - Series Circuit

NFPA Pattern Code
03 - D03

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Size Chart for Standard Port Sizes)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-10-2
- G - Gauge Port #4 SAE or 1/4" NPTF
- G6 - Gauge Port #6 SAE
- H - Hard Metric Threading² (See Notes: Page 1)
- M - Soft Metric Threading³ (See Notes: Page 1)

Design Series

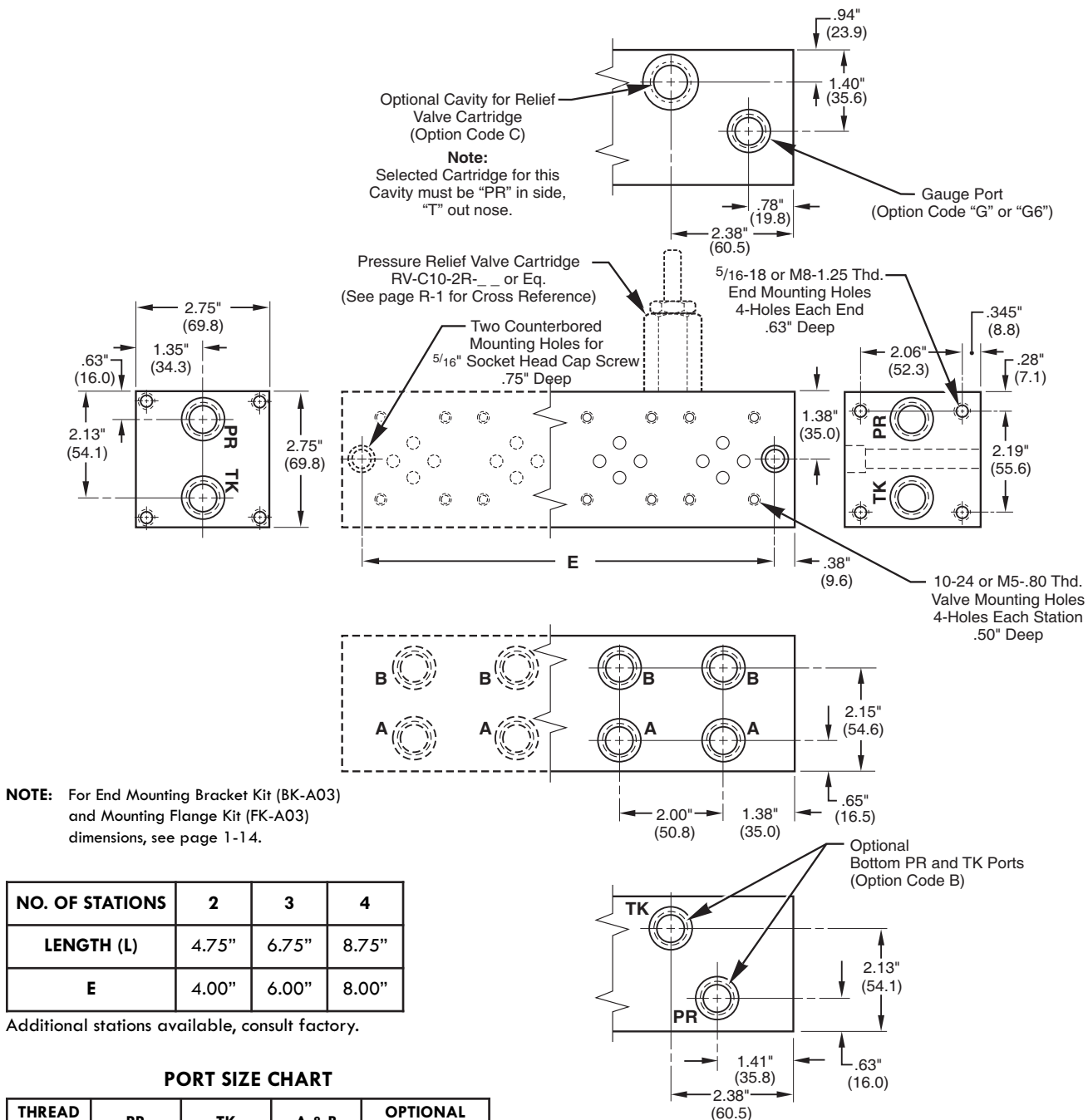
Number of Valve Stations
02 - 2 stations
03 - 3 stations
etc.

Valve Spacing Code
2 - 2.00"

Inline Bar Manifold D03 Bar Manifold - Series



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NOTE: For End Mounting Bracket Kit (BK-A03) and Mounting Flange Kit (FK-A03) dimensions, see page 1-14.

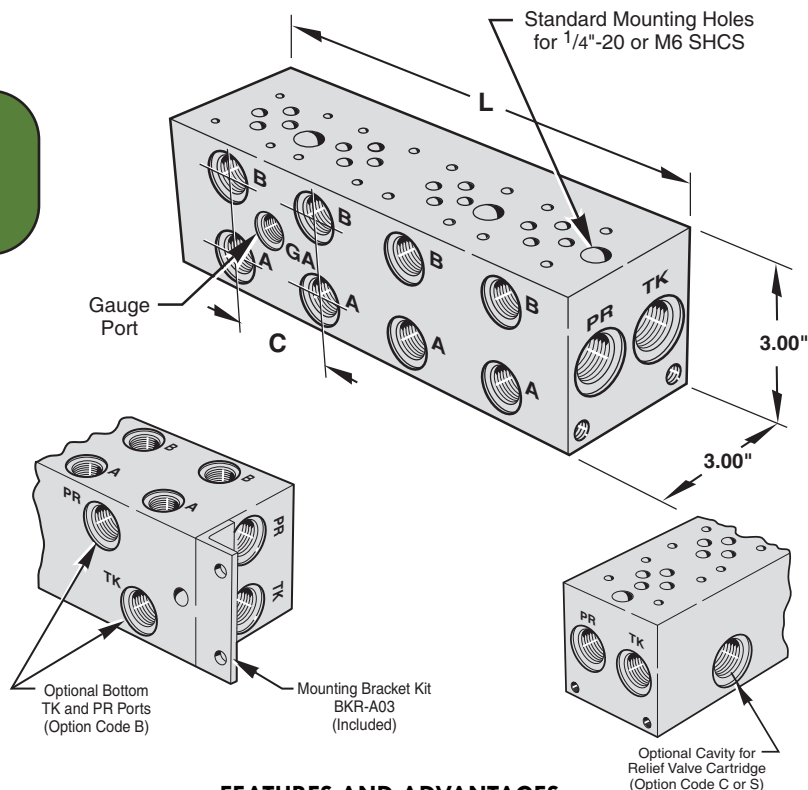
NO. OF STATIONS	2	3	4
LENGTH (L)	4.75"	6.75"	8.75"
E	4.00"	6.00"	8.00"

Additional stations available, consult factory.

PORT SIZE CHART

THREAD CODE	PR	TK	A & B	OPTIONAL GAUGE PORTS
P	1/2" NPT	1/2" NPT	3/8" NPT	1/4" NPT
S	#8 SAE	#8 SAE	#8 SAE	#4 SAE G6 - #6 SAE
B	1/2" BSPP	1/2" BSPP	3/8" BSPP	-
T	1/2" BSPT	1/2" BSPT	3/8" BSPT	-
M	M18	M18	M18	-

1



FEATURES AND ADVANTAGES

- * Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- * 2 1/8" or 4" valve center options allow the manifold to be sized for specific D03 valve types.
- * Adequate clearance for 5/8" tube fittings.
- * Mounting bolt spacing allows standardized mounting pads.
- * Tank and pressure lines may be connected at either end.
- * Standard Gauge Port is 1/4" NPT with "P" Code and #6 SAE with "S" Code (#4 SEA available with G4 Option.)

DIMENSIONS (2.13" VALVE SPACING)

NO. OF STATIONS	C	L	E	F
1 ¹	--	2.13"	N.A.	--
1 ²	--	3.00"	N.A.	--
2	2.13"	4.25"	2.13"	--
3	2.13"	6.38"	4.25"	--
4	2.13"	8.50"	6.38"	--
5	2.13"	10.63"	8.50"	4.25"
6	2.13"	12.75"	10.63"	4.25"
7	2.13"	14.88"	12.75"	4.25"X 2
8	2.13"	17.00"	14.88"	4.25"X 2
9	2.13"	19.38"	17.00"	6.38"X 2
10	2.13"	21.25"	19.38"	6.38"X 2
11	2.13"	23.38"	21.25"	6.38"X 2
12	2.13"	25.50"	23.38"	6.38"X 3
13	2.13"	27.63"	25.50"	6.38"X 2
14	2.13"	29.75"	27.63"	6.38"X 3

NOTE: 1 - Single Station - No Gauge Port
2 - Single Station with C or S Option, includes Gauge Port

DIMENSIONS (4.00" VALVE SPACING)

NO. OF STATIONS	C	L	E	F
2	4.00"	6.13"	4.00"	
3	4.00"	10.13"	8.00"	
4	4.00"	14.13"	12.00"	8.00"
5	4.00"	18.13"	16.00"	8.00"
6	4.00"	22.13"	20.00"	8.00" X 2
7	4.00"	26.13"	24.00"	8.00" X 2

MAGNALOY D03 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M R - A S P 0 3 S 2 - 0 1 - 1 / B

Product Code
BMR-Inline Bar Manifold
Retro Design

Material Code
A - Aluminum
S - Steel

Circuit Code
SP - Standard Flow Parallel Circuit

NFPA Pattern Code
03 - D03

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Size Chart for Standard Port Sizes)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-10-2
- G4 - Gauge Port #4 SAE
- S - Relief Valve Cavity Sun T-10A
- M - Soft Metric Threading³ (See Notes: Page1)
- I - Isolation Plug¹ - Consult Factory

List as last option designated
(See Notes: Page 1)

Design Series

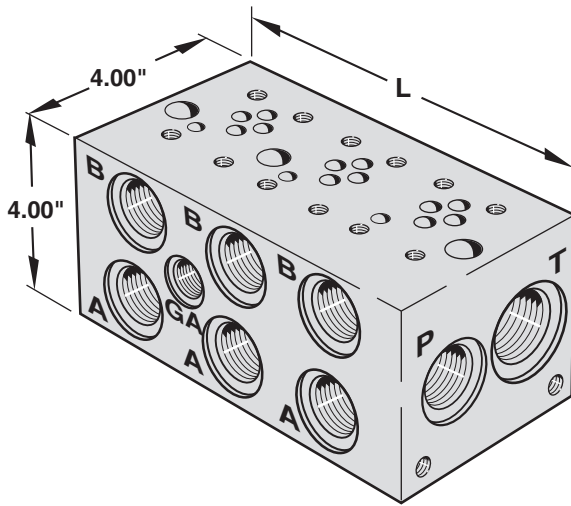
Number of Valve Stations
02 - 2 stations
03 - 3 stations
etc.

Valve Spacing Code
2 - 2.13"
4 - 4.00"



THREAD CODE	PR	TK	A & B	OPTIONAL GAUGE PORTS	MOUNTING HOLES	
					VALVE	MANIFOLD
P	1/2" NPT	1/2" NPT	3/8" NPT	1/4" NPT	10 - 24 UNC	5/16 - 18 UNC
S	#10 SAE	#10 SAE	#8 SAE	#4 SAE G6 - #6 SAE	10 - 24 UNC	5/16 - 18 UNC
B	1/2" BSPP	1/2" BSPP	3/8" BSPP	-	M5 - .8	M8 - 1.25
T	1/2" BSPT	1/2" BSPT	3/8" BSPT	-	M5 - .8	M8 - 1.25
M	M22	M22	M18	-	M5 - .8	M8 - 1.25

1-3



Features & Advantages

- + The higher flow design provides maximum flow rates with minimal pressure drops.
- + 2 1/8" or 4" valve center options allow the manifold to be sized for specific D03 valve types.
- + Standard end mount and through holes make mounting easy and flexible. Also, a mounting bracket kit BKR-AH03 is supplied with the manifold as an alternative mounting style.
- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Options include relief valve cavity, bottom PR & TK ports, and gauge ports to fit specific circuit requirements.

Dimensions (2.13" Valve Spacing)

No. of Stations	C	L	E	F
1 ¹	- -	3.13"	2.38"	-
1 ²	- -	4.00"	3.50"	-
2	2.13"	5.25"	4.50"	-
3	2.13"	7.38"	6.63"	-
4	2.13"	9.50"	8.75"	-
5	2.13"	11.63"	10.88"	6.50"
6	2.13"	13.75"	13.00"	6.50"
7	2.13"	15.88"	15.13"	6.50"
8	2.13"	18.00"	17.25"	8.63"
9	2.13"	20.38"	19.38"	8.63"
10	2.13"	22.25"	21.50"	10.75"
11	2.13"	24.38"	23.63"	8.63" & 17.13"
12	2.13"	26.50"	25.75"	8.63" & 17.13"

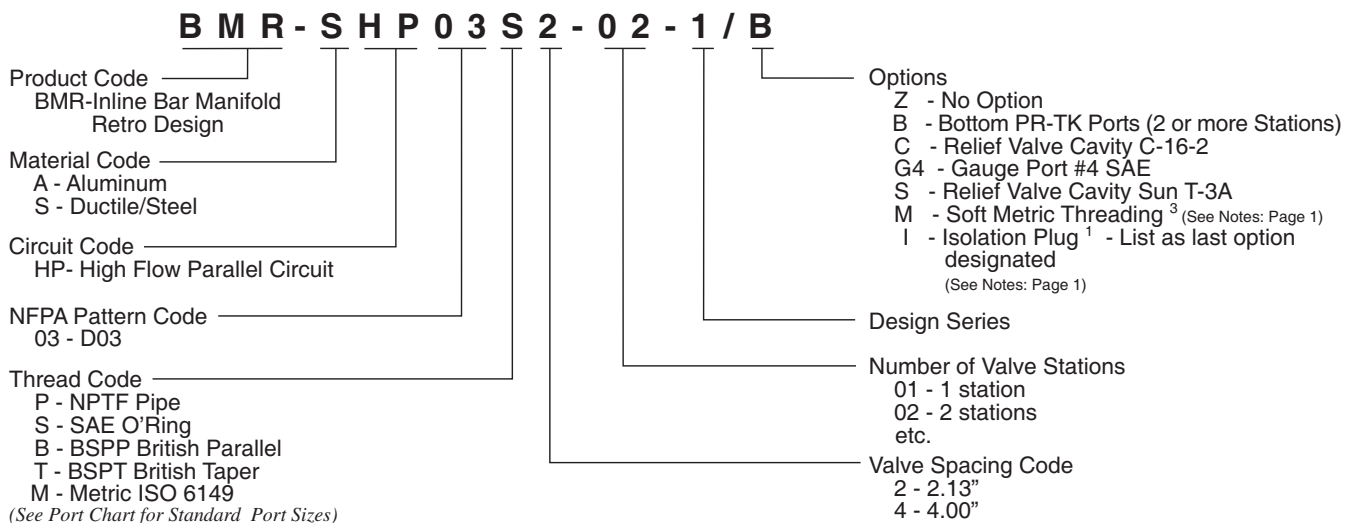
Note: 1 - Single Station - No Gauge Port

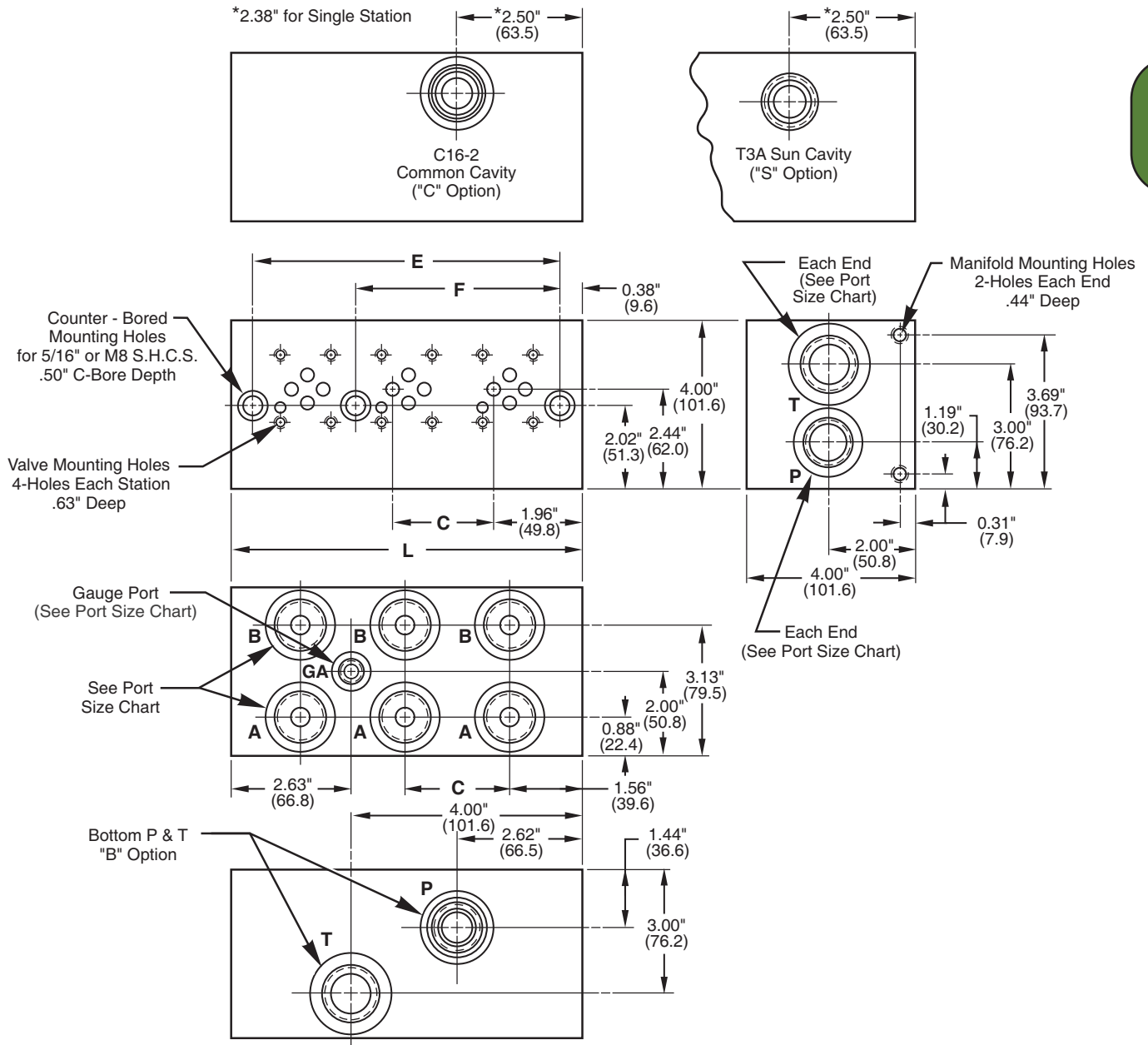
2 - Single Station with C or S Option, includes Gauge Port.

Dimensions (4.00" Valve Spacing)

No. of Stations	C	L	E	F
2	4.00"	7.13"	6.38"	-
3	4.00"	11.13"	10.38"	-
4	4.00"	15.13"	14.38"	7.18"
5	4.00"	19.13"	18.38"	7.18"
6	4.00"	23.13"	22.38"	11.18"
7	4.00"	27.13"	26.38"	11.18"
8	4.00"	31.13"	30.38"	11.18" & 23.18"

MAGNALOY D03 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN



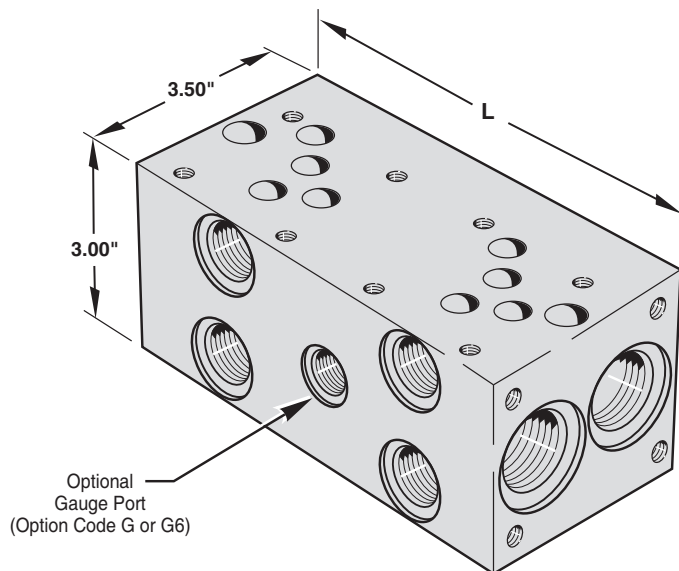


Port Size Chart

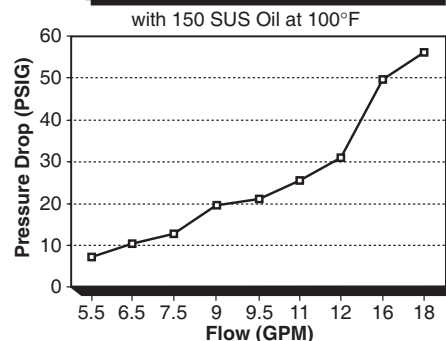
Thread Code	PR	TK	A & B	Gauge Ports	Mounting Holes	
					Valve	Manifold
P	3/4" NPT	1" NPT	3/4" NPT	1/4" NPT	10-24 UNC	5/16-18 UNC
S	#12 SAE	#16 SAE	#12 SAE	G4 - #4 SAE #6 SAE	10-24 UNC	5/16-18 UNC
B	3/4" BSPP	1" BSPP	3/4" BSPP	-	M5x.8	M8x1.25
T	3/4" BSPT	1" BSPT	3/4" BSPT	-	M5x.8	M8x1.25
M	M27x2	M33x2	M27x2	-	M5x.8	M8x1.25

Note: For Mounting Bracket Kit (BKR-AH03) dimensions, see page 1-14.

1



Flow from P to A/B Port



Dimensions (3.25" Valve Spacing)

No. of Stations	C	L	E	F
1	- -	3.25"	2.75"	-
2	3.25"	6.50"	5.50"	-
3	3.25"	9.75"	8.75"	-
4	3.25"	13.50"	12.00"	-
5	3.25"	16.25"	15.25"	8.50"
6	3.25"	19.50"	18.50"	8.50"
7	3.25"	22.75"	21.75"	8.50"
8	3.25"	26.00"	25.00"	8.50"

Note: For Single Station with C, S, G, G6 or B Option, "L" = 4.25"

Dimensions (5.00" Valve Spacing)

No. of Stations	C	L	E	F
2	5.00"	8.25"	7.25"	-
3	5.00"	13.25"	12.25"	-
4	5.00"	18.25"	17.25"	8.50"
5	5.00"	23.25"	22.25"	8.50"
6	5.00"	28.25"	27.25"	13.50"
7	5.00"	33.25"	32.25"	13.50"

Features & Advantages

- + The efficient design provides flow rates with minimal pressure drops.
- + 3 1/4" or 5" valve center options allow the manifold to be sized for specific D05 valve types.
- + Standard end mount and through holes make mounting easy and flexible. Also, (when requested) mounting bracket kit BK-A05 (no charge) or flange mounting kit FK-A05 (additional cost) are available as alternative mounting styles.
- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Options include relief valve cavity, bottom PR & TK ports, and gauge ports to fit specific circuit requirements.

MAGNALOY D05 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M - S S P 0 5 P 3 - 0 1 - 1 / G

Product Code
BM - Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SP - Standard Flow Parallel Circuit

NFPA Pattern Code
05 - D05

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric - ISO 6149

(See Port Size Chart for Standard Port Sizes.)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-10-2
- G - Gauge Port #4 SAE or 1/4" NPTF
- G6 - Gauge Port #6 SAE
- S - Relief Valve Cavity Sun T-3A
- H - Hard Metric Threading² (See Notes: Page 1)
- M - Soft Metric Threading³ (See Notes: Page 1)
- I - Isolation Plug¹ - List as last option designated (See Notes: Page 1)

Note: For more than two combined options, Please Consult Factory.

Design Series

- Number of Valve Stations
- 01 - 1 station
- 02 - 2 stations
- etc.

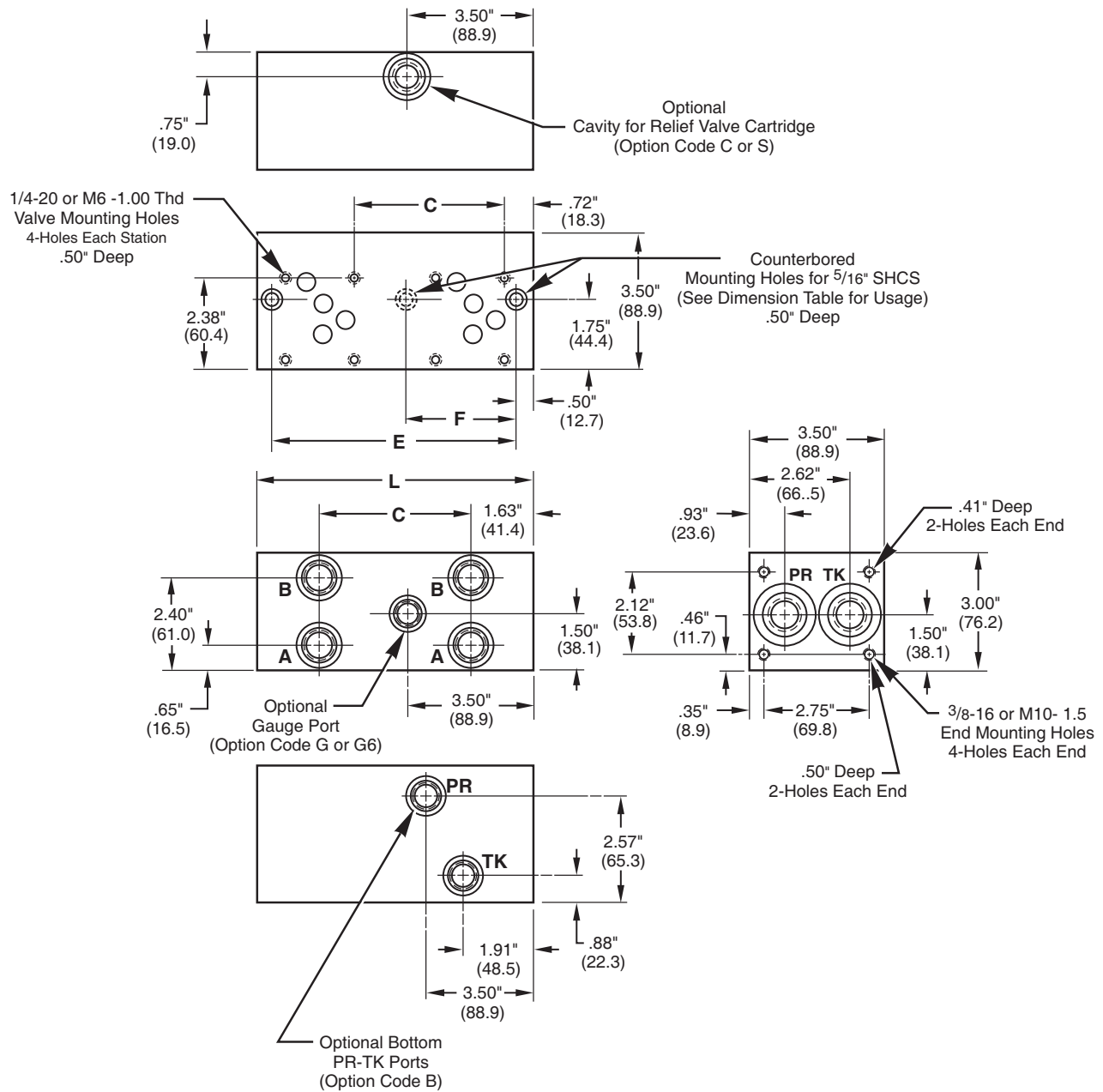
Valve Spacing Code
3 - 3.25"
5 - 5.00"

Inline Bar Manifold

D05 Standard Bar Manifold - Parallel



1

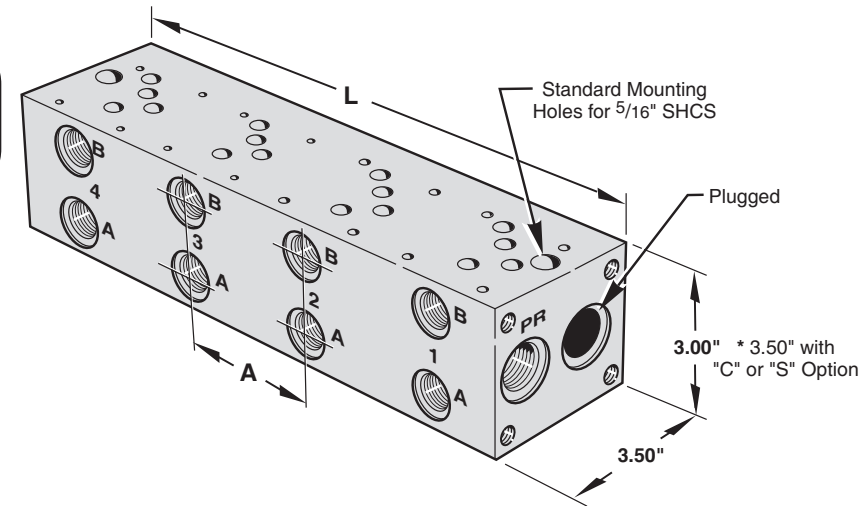


Port Size Chart

Thread Code	PR	TK	A & B	Gauge Ports
P	3/4" NPT	3/4" NPT	1/2" NPT	1/4" NPT
S	#12 SAE	#12 SAE	#8 SAE	G4 - #4 SAE #6 SAE
B	3/4" BSPP	3/4" BSPP	1/2" BSPP	-
T	3/4" BSPT	3/4" BSPT	1/2" BSPT	-
M	M27	M27	M18	-

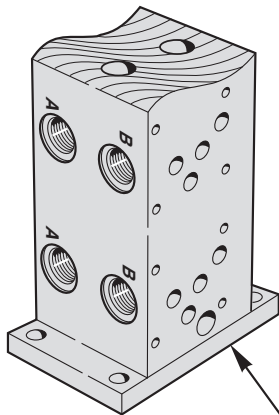
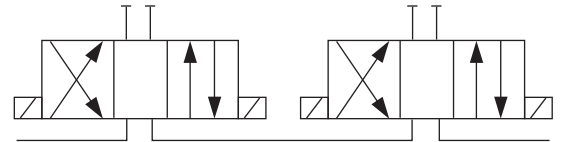
Note: For Mounting Bracket Kit (BKR-AH03) dimensions, see page 1-14.

1

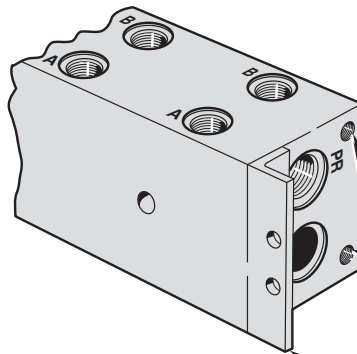


Features & Advantages

- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Adequate clearance for 3/4" tube fittings.
- + Mounting bolt spacing allows standardized mounting pads.



Accessory Mounting Flange
(Non "C" or "S" Only)
(FK-A05)



Mounting Bracket Kit
(Request-No Charge)
(BK-A05)

Flange Mounting Holes
(Non "C" or "S" Only)

MAGNALOY D05 SERIES BAR MANIFOLD PART NUMBER BREAKDOWN

B M - A S S 0 5 P 3 - 0 2 - 1 / Z

Product Code
BM - Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SS - Series Circuit

NFPA Pattern Code
05 - D05

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Size Chart for Standard Port Sizes.)

Options

Z - No Option
B - Bottom PR-TK Ports
C - Relief Valve Cavity C-10-2
G - Gauge Port - #4 SAE or 1/4" NPTF
G6 - Gauge Port - #6 SAE
S - Relief Valve Cavity Sun T3A
M - Soft Metric Threading ³ (See Notes: Page 1)

Design Series

Number of Valve Stations
02 - 2 stations
03 - 3 stations
etc.

Valve Spacing Code
3 - 3.25"
5 - 5.00"



With “C” or “S” Option

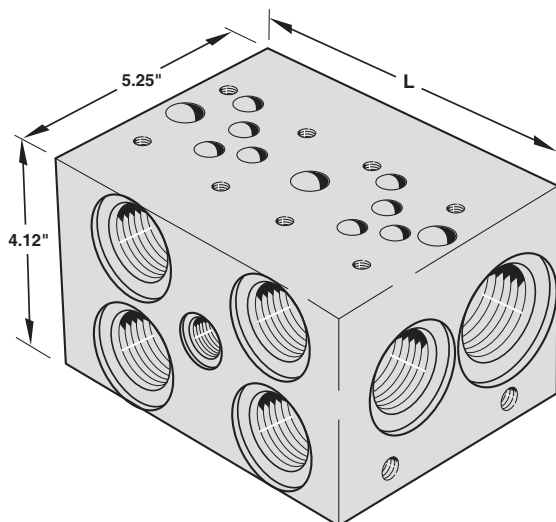
Number of Stations	A/C		E		L	
	Valve Spacing		Valve Spacing		Valve Spacing	
	3.25"	5.00"	3.25"	5.00"	3.25"	5.00"
2	3.25"	5.00"	6.50"	8.25"	7.50"	9.25"
3	3.25"	5.00"	9.75"	13.25"	10.75"	14.25"
4	3.25"	5.00"	13.00"	18.25"	14.00"	19.25"

Note: For **Mounting Bracket Kit** (BK-A05) and **Mounting Flange Kit** (FK-A05) dimensions, see **page 1-14**.

Thread Code	PR	TK	A & B	Optional Gauge Ports
P	3/4" NPT	3/4" NPT	1/2" NPT	1/4" NPT
S	#12 SAE	#12 SAE	#8 SAE	#4 SAE G6 - #6 SAE
B	3/4" BSPP	3/4" BSPP	1/2" BSPP	-
T	3/4" BSPT	3/4" BSPT	1/2" BSPT	-
M	M27	M27	M18	-



Inline Bar Manifold D05 High Flow Bar Manifold - Parallel

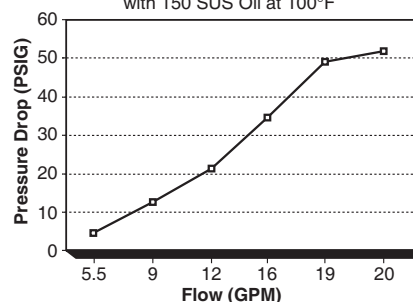


Features & Advantages

- + The high flow design provides flow rates with minimal pressure drops.
- + 3 1/4" or 5" valve center options allow the manifold to be sized for specific D05 valve types.
- + Standard end mount and through holes make mounting easy and flexible. Also, (when requested) mounting bracket kit BK-A05 (no charge) is supplied as alternative end mounting style.
- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Options include relief valve cavity, bottom PR & TK ports, and gauge port to fit specific circuit requirements.

Flow from P to A/B Port

with 150 SUS Oil at 100°F



Dimensions (3.25" Valve Spacing)

No. of Stations	C	L*	E	F
1	-	3.75"	2.45"	-
2	3.25"	6.50"	5.70"	-
3	3.25"	9.75"	8.95"	-
4	3.25"	13.00"	12.20"	6.50"
5	3.25"	16.25"	15.45"	6.50"
6	3.25"	19.50"	18.70"	6.50" & 13.00"
7	3.25"	22.75"	21.95"	6.50" & 13.00"

* Note: For Single Station with C, S, G, G6 or B Option, "L" = 4.75"

Dimensions (5.00" Valve Spacing)

No. of Stations	C	L	E	F
2	5.00"	8.25"	7.45"	-
3	5.00"	13.25"	12.45"	-
4	5.00"	18.25"	17.45"	10.00"
5	5.00"	23.25"	22.45"	10.00"
6	5.00"	28.25"	27.45"	10.00" & 20.00"
7	5.00"	33.25"	32.45"	10.00" & 20.00"

MAGNALOY D05 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M - S H P 0 5 P 3 - 0 1 - 1 / G

Product Code
BM - Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
HP - High Flow Parallel Circuit

NFPA Pattern Code
05 - D05

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Size Chart for Standard Port Sizes)

Options

Z - No Option
B - Bottom PR-TK Ports
C - Relief Valve Cavity C-10-2
G - Gauge Port #4 SAE or 1/4" NPTF
G6 - Gauge Port #6 SAE
L - L Port
O - Oversized A and B Ports
S - Relief Valve Cavity Sun T-3A
H - Hard Metric Threading² (See Notes: Page 1)
M - Soft Metric Threading³ (See Notes: Page 1)
I - Isolation Plug¹ - List as last option designated (See Notes: Page 1)

Note: For more than two combined options, please Consult Factory.

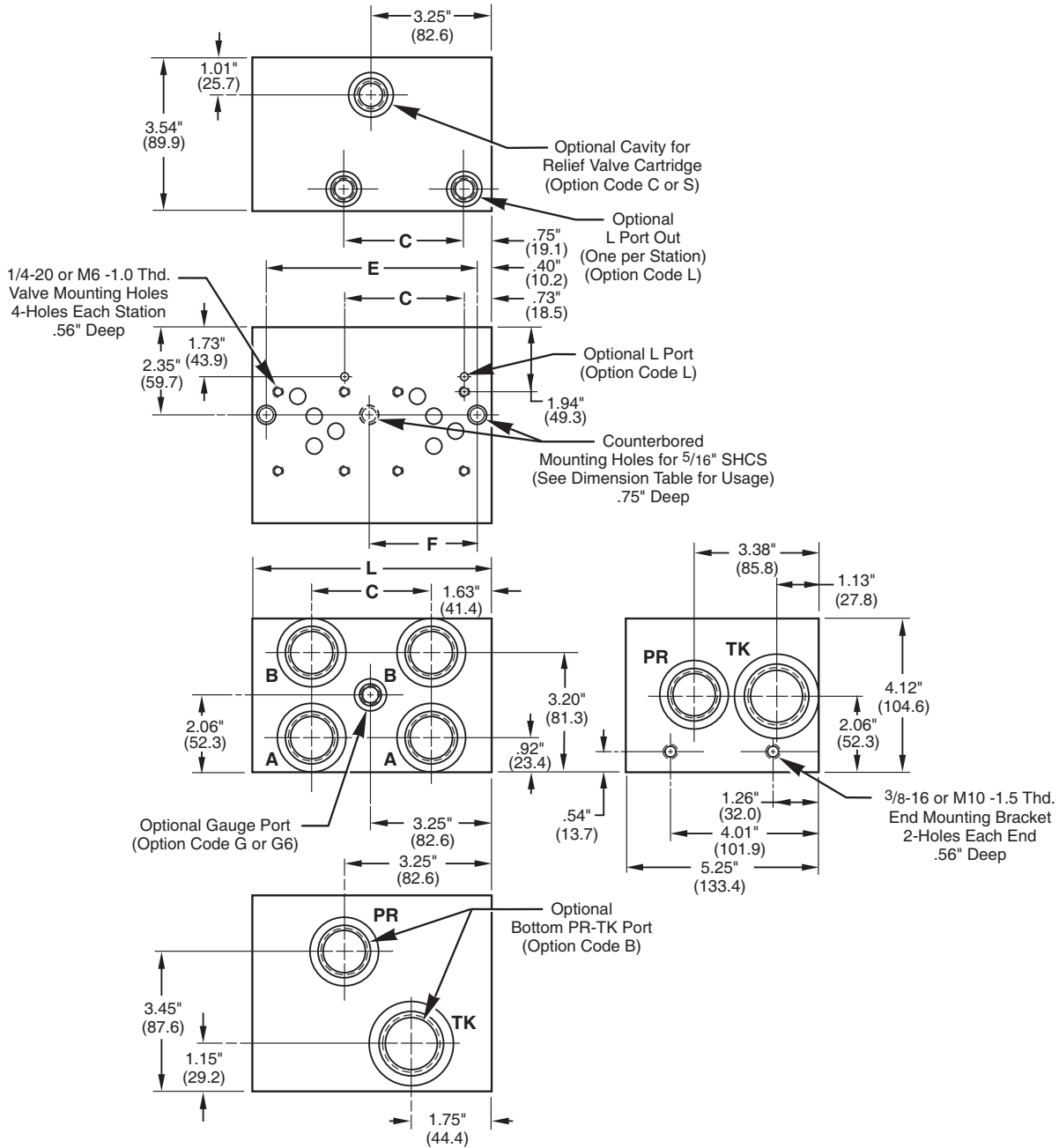
Design Series

Number of Valve Stations
01 - 1 station
02 - 2 stations
etc.

Valve Spacing Code
3 - 3.25"
5 - 5.00"

Inline Bar Manifold

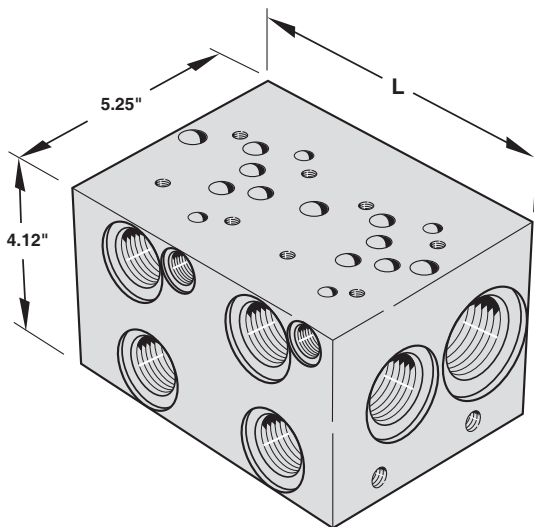
D05 High Flow Bar Manifold - Parallel



Port Size Chart

Thread Code	PR	TK	A & B	A & B (Oversize Option)	L Port	Optional Gauge Ports
P	1" NPT	1 1/4" NPT	3/4" NPT	1" NPT	1/4" NPT	1/4" NPT
S	#16 SAE	#20 SAE	#12 SAE	#16 SAE	#4 SAE	#4 SAE G6 - #6 SAE
B	1" BSPP	1 1/4" BSPP	3/4" BSPP	1" BSPP	1/4" BSPP	-
T	1" BSPT	1 1/4" BSPT	3/4" BSPT	1" BSPT	1/4" BSPT	-
M	M33	M42	M27	M33	M12	-

Note: For Mounting Bracket Kit (BK-A05) dimensions, see page 1-14.



Features & Advantages

- + The high flow design provides flow rates with minimal pressure drops.
- + 3 1/4" or 5" valve center options allow the manifold to be sized for specific D05 valve types.
- + Standard end mount and through holes make mounting easy and flexible. Also, (when requested) mounting bracket kit BK-A05 (no charge) is supplied as alternative end mounting style.
- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Options include relief valve cavity, bottom PR & TK ports, and gauge port to fit specific circuit requirements.

Dimensions (3.25" Valve Spacing)

No. of Stations	C	L*	E	F
1	- -	3.75"	2.45"	-
2	3.25"	6.50"	5.70"	-
3	3.25"	9.75"	8.95"	-
4	3.25"	13.00"	12.20"	6.50"
5	3.25"	16.25"	15.45"	6.50"
6	3.25"	19.50"	18.70"	6.50" & 13.00"
7	3.25"	22.75"	21.95"	6.50" & 13.00"

* Note: For Single Station with C, S, G, G6 or B Option, "L" = 4.75"

Dimensions (5.00" Valve Spacing)

No. of Stations	C	L	E	F
2	5.00"	8.25"	7.45"	-
3	5.00"	13.25"	12.45"	-
4	5.00"	18.25"	17.45"	10.00"
5	5.00"	23.25"	22.45"	10.00"
6	5.00"	28.25"	27.45"	10.00" & 20.00"
7	5.00"	33.25"	32.45"	10.00" & 20.00"

MAGNALOY D05E ALT. A PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M - S H P 5 E P 3 - 0 1 - 1 / G

Product Code
BM - Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
HP - High Flow Parallel Circuit

NFPA Pattern Code
5E - D05E Alt. A

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Size Chart for Standard Port Sizes)

Options

Z - No Option
B - Bottom PR-TK Ports
C - Relief Valve Cavity C-10-2
G - Gauge Port #4 SAE or 1/4 NPTF
G6 - Gauge Port #6 SAE
S - Relief Valve Cavity Sun T-3A
H - Hard Metric Threading² (See Notes: Page 1)
M - Soft Metric Threading³ (See Notes: Page 1)
I - Isolation Plug¹ - List as last option designated (See Notes: Page 1)

Note: For more than two combined options, please Consult Factory.

Design Series

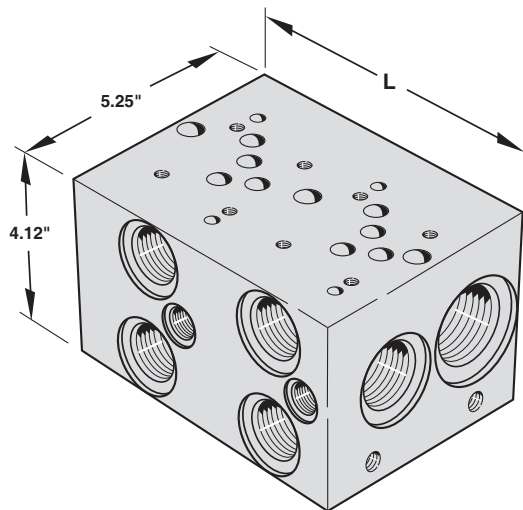
Number of Valve Stations
01 - 1 station
02 - 2 stations
etc.

Valve Spacing Code
3 - 3.25"
5 - 5.00"



Note: For **Mounting Bracket Kit (BK-A05)** dimensions, see **page 1-14**.

Thread Code	PR	TK	A & B	Optional Gauge Ports	X & Y
P	1" NPT	1 1/4" NPT	3/4" NPT	1/4" NPT	1/4" NPT
S	#16 SAE	#20 SAE	#12 SAE	#4 SAE G6 - #6 SAE	#4 SAE
B	1" BSPP	1 1/4" BSPP	3/4" BSPP	-	1/4" BSPP
T	1" BSPT	1 1/4" BSPT	3/4" BSPT	-	1/4" BSPT
M	M33	M42	M27	-	M12



Features & Advantages

- + The high flow design provides flow rates with minimal pressure drops.
- + 3 1/4" or 5" valve center options allow the manifold to be sized for specific D05 valve types.
- + Standard end mount and through holes make mounting easy and flexible. Also, (when requested) mounting bracket kit BK-A05 (no charge) is supplied as alternative end mounting style.
- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Options include relief valve cavity, bottom PR & TK ports, and gauge port to fit specific circuit requirements.

Dimensions (3.25" Valve Spacing)

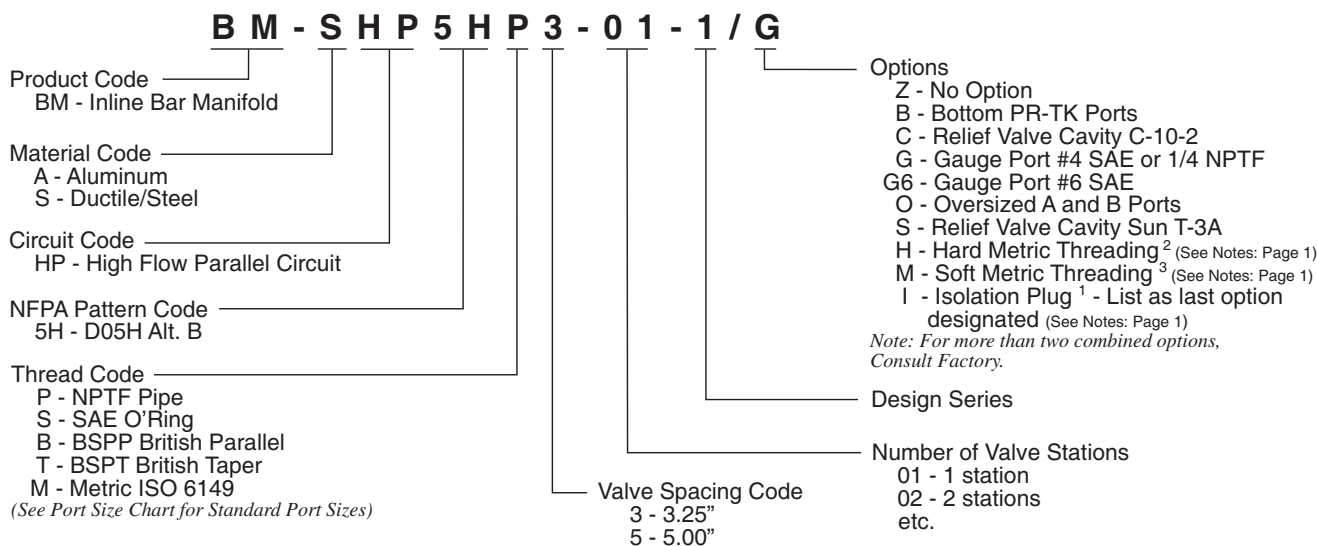
No. of Stations	C	L*	E	F
1	- -	3.75"	2.45"	-
2	3.25"	6.50"	5.70"	-
3	3.25"	9.75"	8.95"	-
4	3.25"	13.00"	12.20"	6.50"
5	3.25"	16.25"	15.45"	6.50"
6	3.25"	19.50"	18.70"	6.50" & 13.00"
7	3.25"	22.75"	21.95"	6.50" & 13.00"

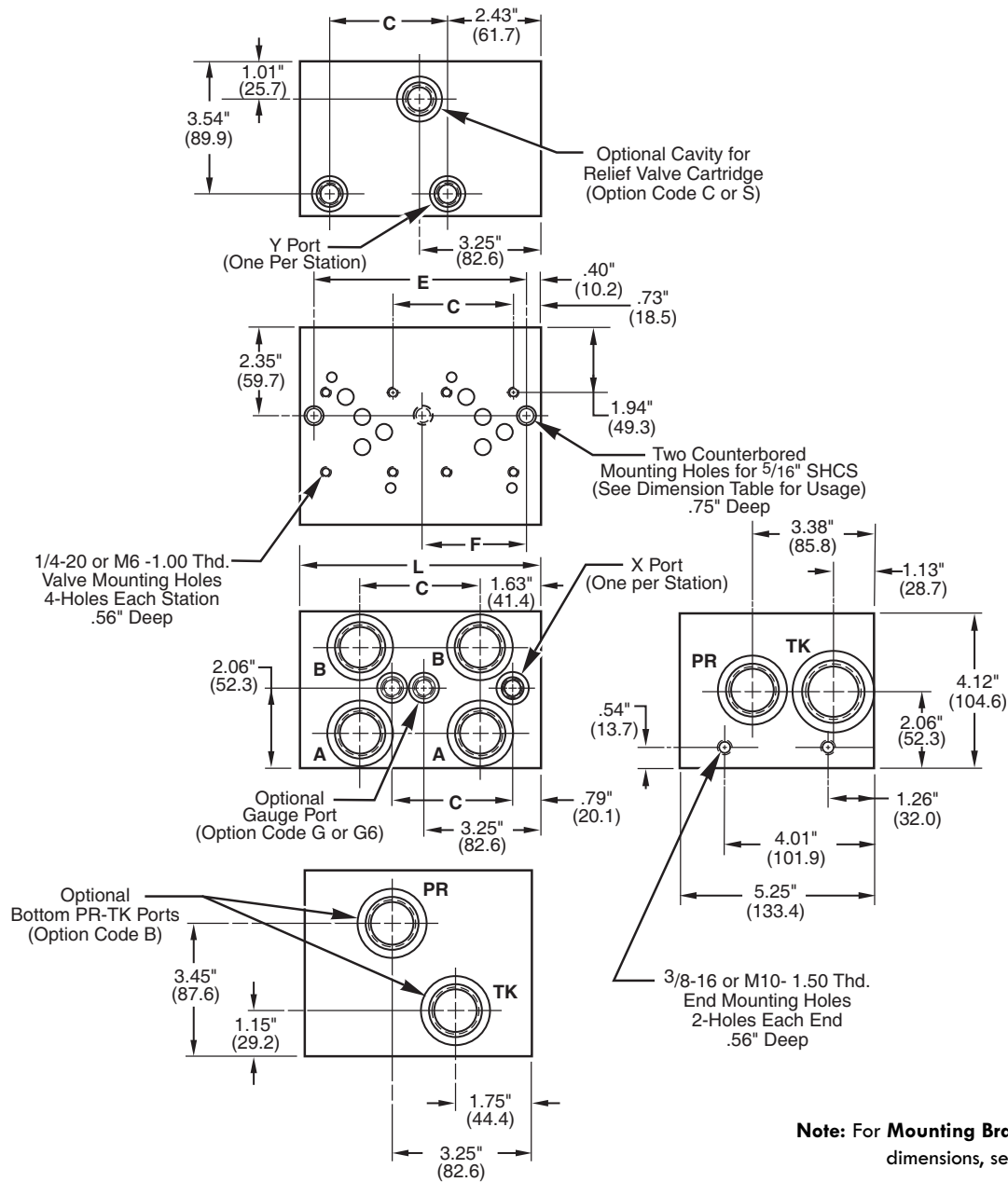
* Note: For Single Station with C, S, G, G6 or B Option, "L" = 4.75"

Dimensions (5.00" Valve Spacing)

No. of Stations	C	L	E	F
2	5.00"	8.25"	7.45"	-
3	5.00"	13.25"	12.45"	-
4	5.00"	18.25"	17.45"	10.00"
5	5.00"	23.25"	22.45"	10.00"
6	5.00"	28.25"	27.45"	10.00" & 20.00"
7	5.00"	33.25"	32.45"	10.00" & 20.00"

MAGNALOY D05H ALT. B PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN



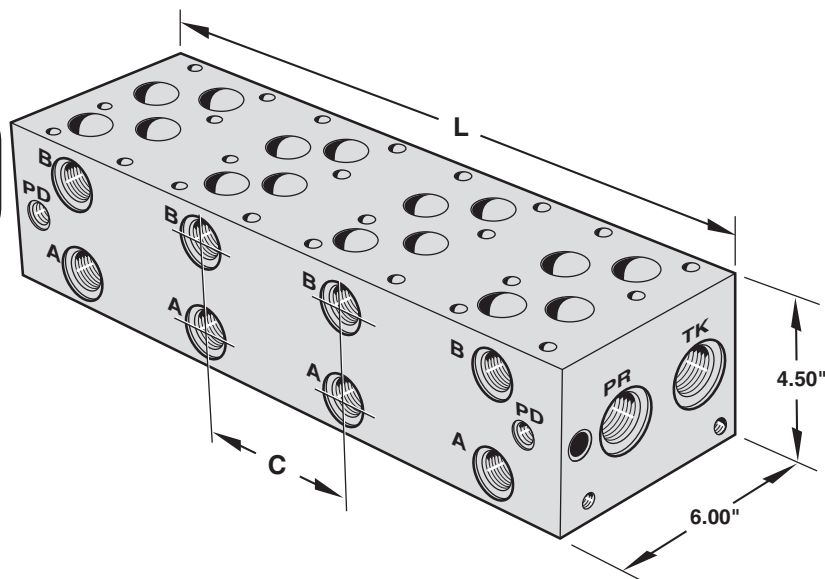


Note: For Mounting Bracket Kit (BK-A05) dimensions, see page 1-14.

Port Size Chart

Thread Code	PR	TK	A & B	A & B (Oversize Option)	Optional Gauge Ports	X & Y
P	1" NPT	1 1/4" NPT	3/4" NPT	1" NPT	1/4" NPT	1/4" NPT
S	#16 SAE	#20 SAE	#12 SAE	#16 SAE	#4 SAE G6 - #6 SAE	#4 SAE
B	1" BSPP	1 1/4" BSPP	3/4" BSPP	1" BSPP	-	1/4" BSPP
T	1" BSPT	1 1/4" BSPT	3/4" BSPT	1" BSPT	-	1/4" BSPT
M	M33	M42	M27	M33	-	M12

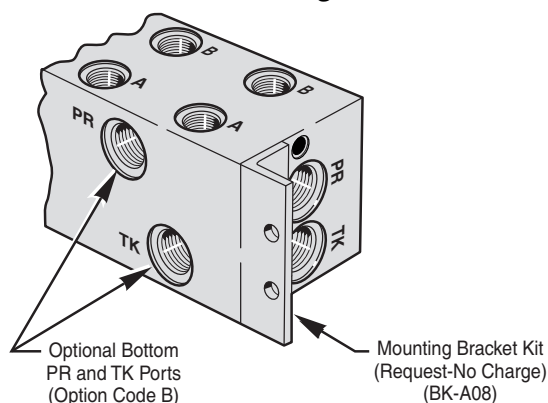
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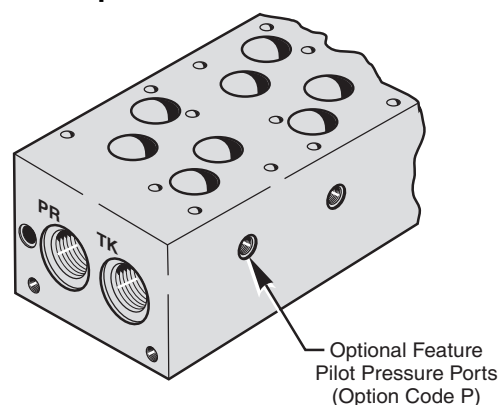
Features & Advantages

- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Large pressure and tank passage for maximum flow capacity.
- + Common pilot drain connection.
- + Standard end mount and through holes. Mounting Bracket kit BK-A08 is supplied (no charge) as an alternate end mounting style.
- + Options include relief valve cavities, bottom PR & TK ports, and gauge port and PR & TK isolation.

Standard Mounting Bracket Kit



Optional Pilot Pressure Ports



MAGNALOY D08 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M - A S P 0 8 P 5 - 0 2 - 0 / B

Product Code
BM-Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SP - Standard Flow Parallel Circuit

NFPA Pattern Code
08 - D08

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Chart for Standard Port Sizes)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-10-2
- G - Gauge Port #4 SAE or 1/4 NPTF
- G6 - Gauge Port #6 SAE
- P - Pilot Pressures (Individual Per Station)
- S - Relief Valve Cavity Sun T-3A
- H - Hard Metric Threading² (See Notes: Page1)
- M - Soft Metric Threading³ (See Notes: Page 1)
- I - Isolation Plug¹ - List as last option designated (See Notes: Page 1)

Design Series

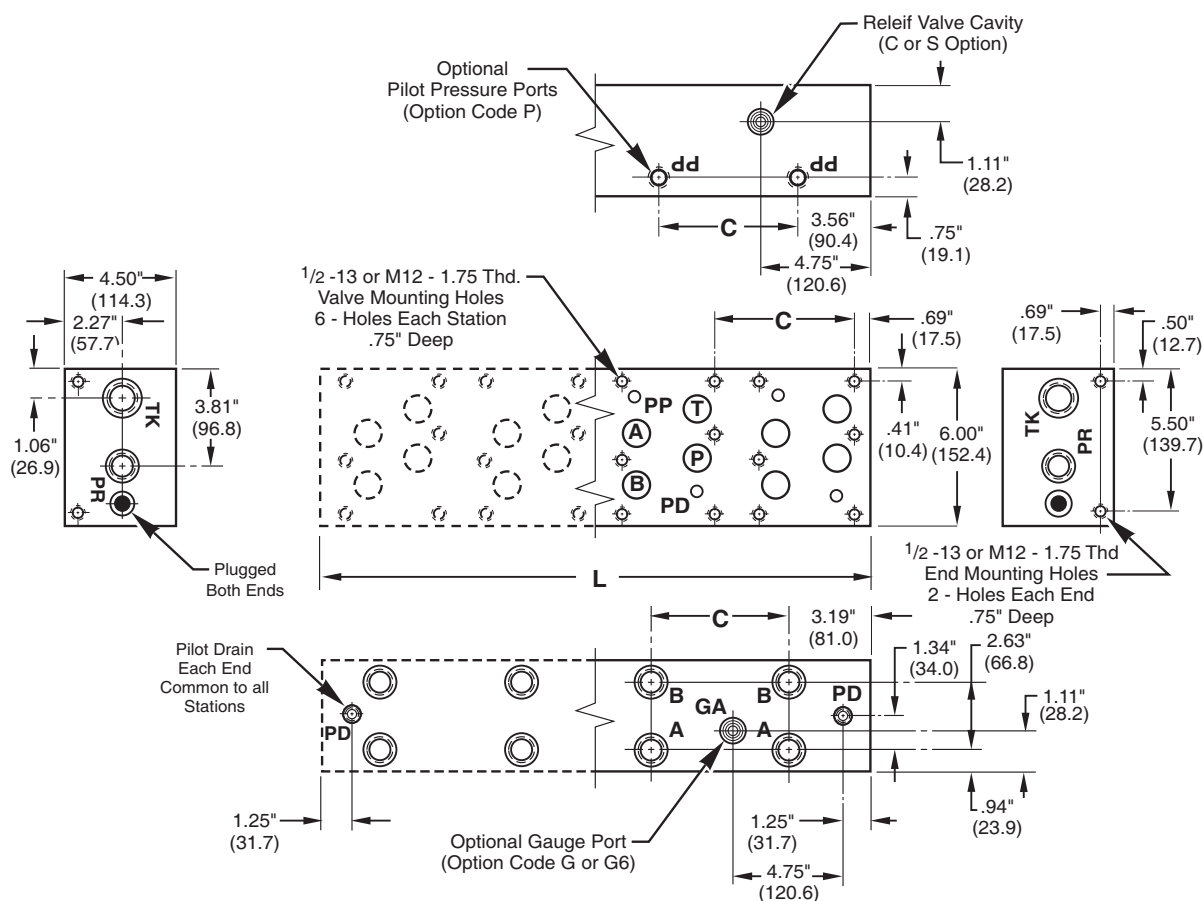
Number of Valve Stations
01 - 1 station
02 - 2 stations
etc.

Valve Spacing Code
5 - 5.25"
7 - 7.00"

Inline Bar Manifold D08 Bar Manifold - Parallel

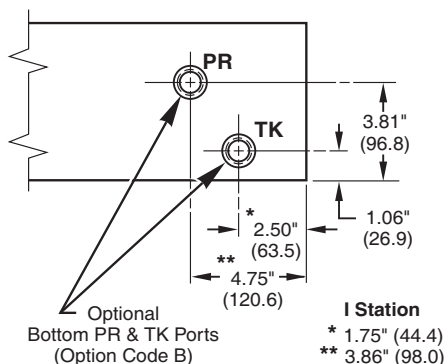


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No. of Stations	C		L	
	Valve Spacing		Valve Spacing	
	5.25"	7.00"	5.25"	7.00"
1	--	--	5.56"	--
2	5.25"	7.00"	10.81"	12.56"
3	5.25"	7.00"	16.06"	19.56"
4	5.25"	7.00"	21.31"	26.56"
5	5.25"	7.00"	26.56"	--
6	5.25"	7.00"	31.81"	--

Additional stations available, consult factory.

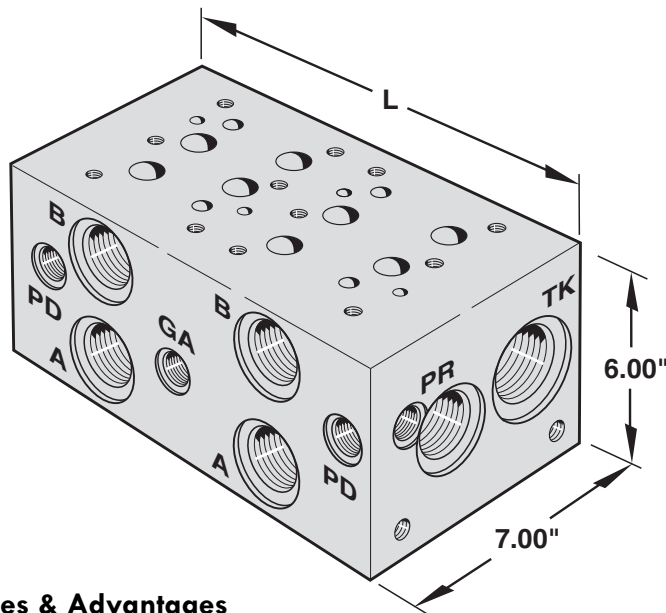


Port Size Chart

Thread Code	PR	TK	A & B	PD & Pilot Pressure Ports	Optional Gauge Port
P	1" NPT	1 1/4" NPT	1" NPT	3/8" NPT	1/4" NPT
S	#16 SAE	#20 SAE	#16 SAE	#6 SAE	#4 SAE G6 - #6 SAE
B	1" BSPP	1 1/4" BSPP	1" BSPP	3/8" BSPP	-
T	1" BSPT	1 1/4" BSPT	1" BSPT	3/8" BSPT	-
M	M33	M42	M33	M14	-

NOTE: For Mounting Bracket Kit (BK-A08) dimensions, see page 1-14.

1



Features & Advantages

- + The high flow design provides maximum flow rates with minimum pressure drops.
- + 5 1/4" or 7" valve center option allow the manifold to be sized for specific D08 valve types.
- + Standard end mounting holes make mounting easy and flexible. Also, a mounting bracket kit (BKR-A08) is supplied with the manifold.
- + Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- + Options include relief valve cavity, bottom PR & TK ports, and 'PR' isolation to fit specific circuit requirements.
- + Standard Gauge Port is 1/4" NPT with "P" code and #6 SAE with "S" Code (#4 SAE available with G4 option).

Dimensions (5.25" Valve Spacing)

No. of Stations	C	L
1	--	6.25"
2	5.25"	11.50"
3	5.25"	16.75"
4	5.25"	22.00"
5	5.25"	27.25"
6	5.25"	32.50"

Dimensions (7.00" Valve Spacing)

No. of Stations	C	L
2	7.00"	13.25"
3	7.00"	20.25"
4	7.00"	27.25"
5	7.00"	34.25"

MAGNALOY D08 PARALLEL BAR MANIFOLD PART NUMBER BREAKDOWN

B M R - A H P 0 8 P 7 - 0 2 - 1 / B

Product Code
BMR-Inline Bar Manifold
Retro Design

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
HP- High Flow Parallel Circuit

NFPA Pattern Code
08 - D08

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Chart for Standard Port Sizes)

Options

- Z - No Option
- B - Bottom PR-TK Ports
- C - Relief Valve Cavity C-16-2
- G4 - Gauge Port #4 SAE
- P - Pilot Pressures (Individual Per Valve)
- S - Relief Valve Cavity Sun T-16A
- M - Soft Metric Threading³ (See Notes: Page 3)
- I - Isolation Plug¹ - Consult Factory for Port Isolation Option Availability.

(See Notes: Page 3 and Main Hydraulic Manifold Catalog Page 1-10)

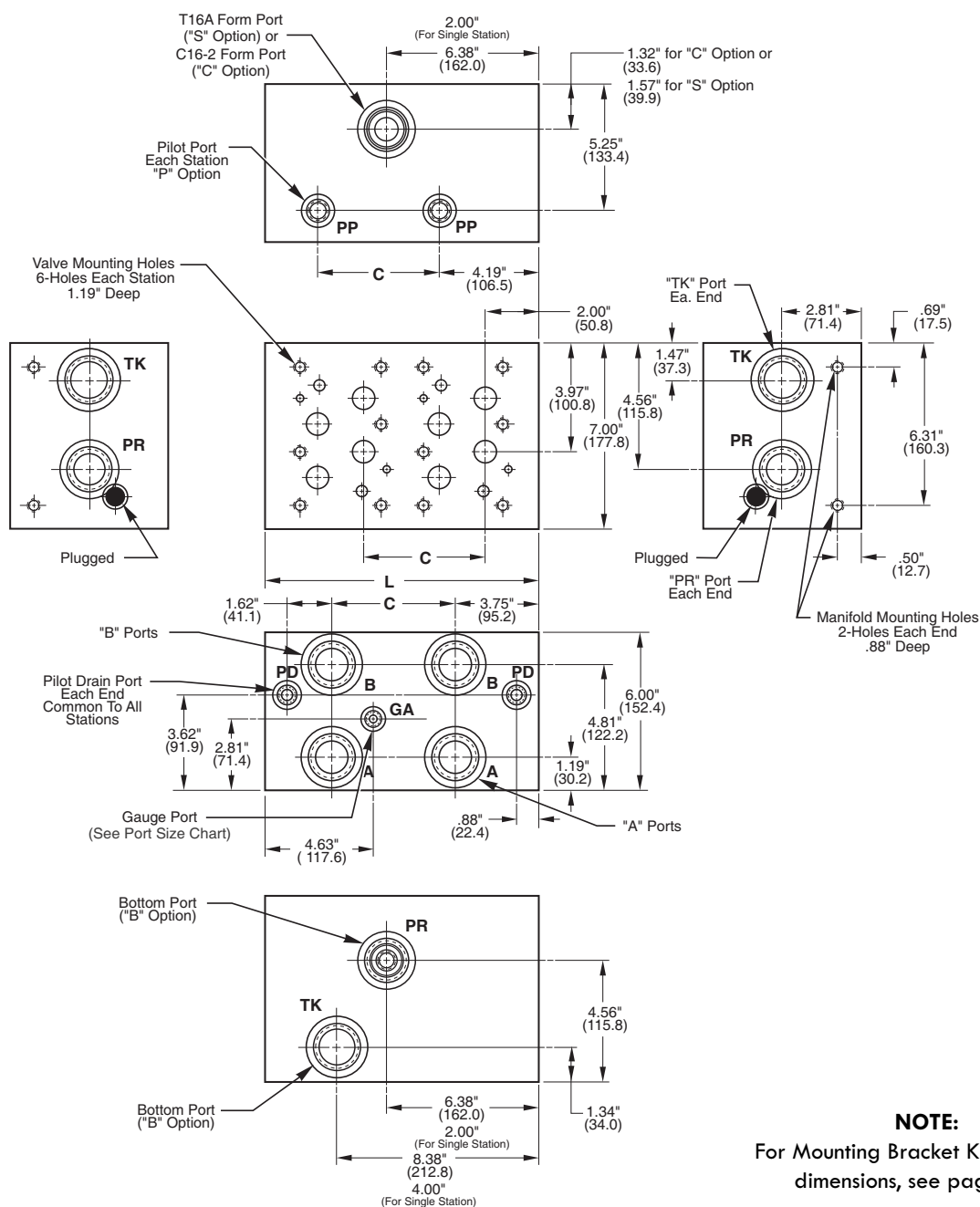
Design Series

Number of Valve Stations
01 - 1 station
02 - 2 stations
etc.

Valve Spacing Code
5 - 5.25"
7 - 7.00"

Inline Bar Manifold

D08 High Flow Retro Design Bar Manifold - Parallel

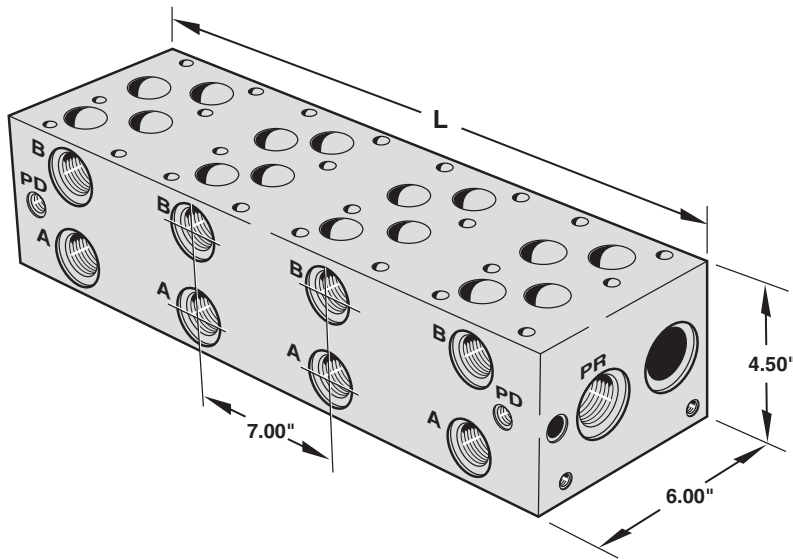


NOTE:
For Mounting Bracket Kit (BKR-A08)
dimensions, see page 1-14.

Port Size Chart

Thread Code	PR	TK	A & B	Pilots		Gauge Port	Mounting Holes	
				PD	PP		Valve	Manifold
P	1 1/4" NPT	1 1/2" NPT	1 1/4" NPT	1/2" NPT	1/4" NPT	1/4" NPT	1/2-13 UNC	1/2-13 UNC
S	#20 SAE	#24 SAE	#20 SAE	#8 SAE	#4 SAE	G4 - #4 SAE #6 SAE	1/2-13 UNC	1/2-13 UNC
B	1 1/4" BSPP	1 1/2" BSPP	1 1/4" BSPP	1/2" BSPP	1/4" BSPP	-	M12-1.75	M12-1.75
T	1 1/4" BSPT	1 1/2" BSPT	1 1/4" BSPT	1/2" BSPT	1/4" BSPT	-	M12-1.75	M12-1.75
M	M42 x 2	M48 x 2	M42 x 2	M16 x 1.5	M10 x 1.0	-	M12-1.75	M12-1.75

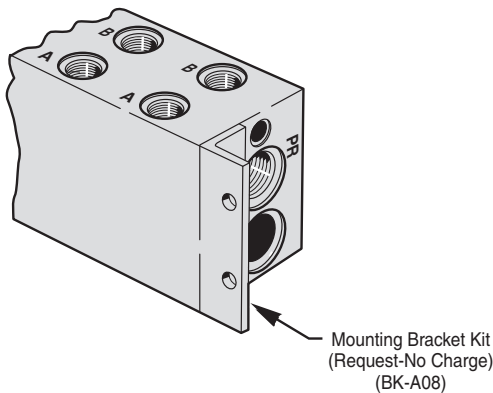
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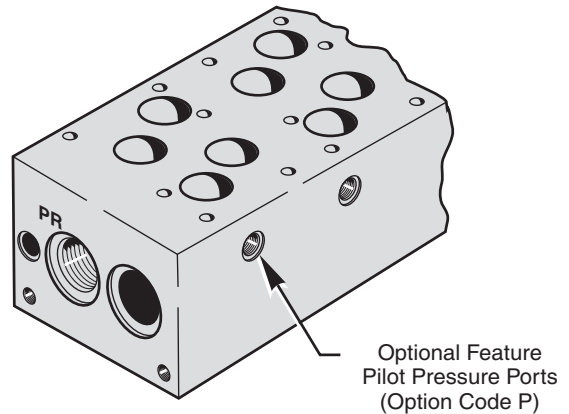
Features & Advantages

- * Available with SAE, NPT, BSPP, BSPT or Metric Threads to cover a wide range of applications.
- * Large pressure and tank passages for maximum flow capacity.
- * Common pilot drain connections.
- * Standard end mounting holes make mounting easy and flexible. Also, a mounting bracket kit (BK-A08) is supplied (when requested) as an alternate end mounting style.

Standard Mounting Bracket Kit



Optional Pilot Pressure Ports



MAGNALOY D08 SERIES BAR MANIFOLD PART NUMBER BREAKDOWN

B M - A S S 0 8 P 7 - 0 2 - 0 / P

Product Code
BM-Inline Bar Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SS - Series Circuit

NFPA Pattern Code
08 - D08

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Chart for Standard Port Sizes)

Options

- Z - No Option
- G - Gauge Port #4 SAE or 1/4 NPTF
- G6 - Gauge Port #6 SAE
- P - Pilot Pressures (Individual Per Valve)
- H - Hard Metric Threading² (See Notes: Page1)
- M - Soft Metric Threading³ (See Notes: Page 1)

Design Series

Number of Valve Stations
02 - 2 stations
03 - 3 stations
etc.

Valve Spacing Code
7 - 7.00" Only

Inline Bar Manifold

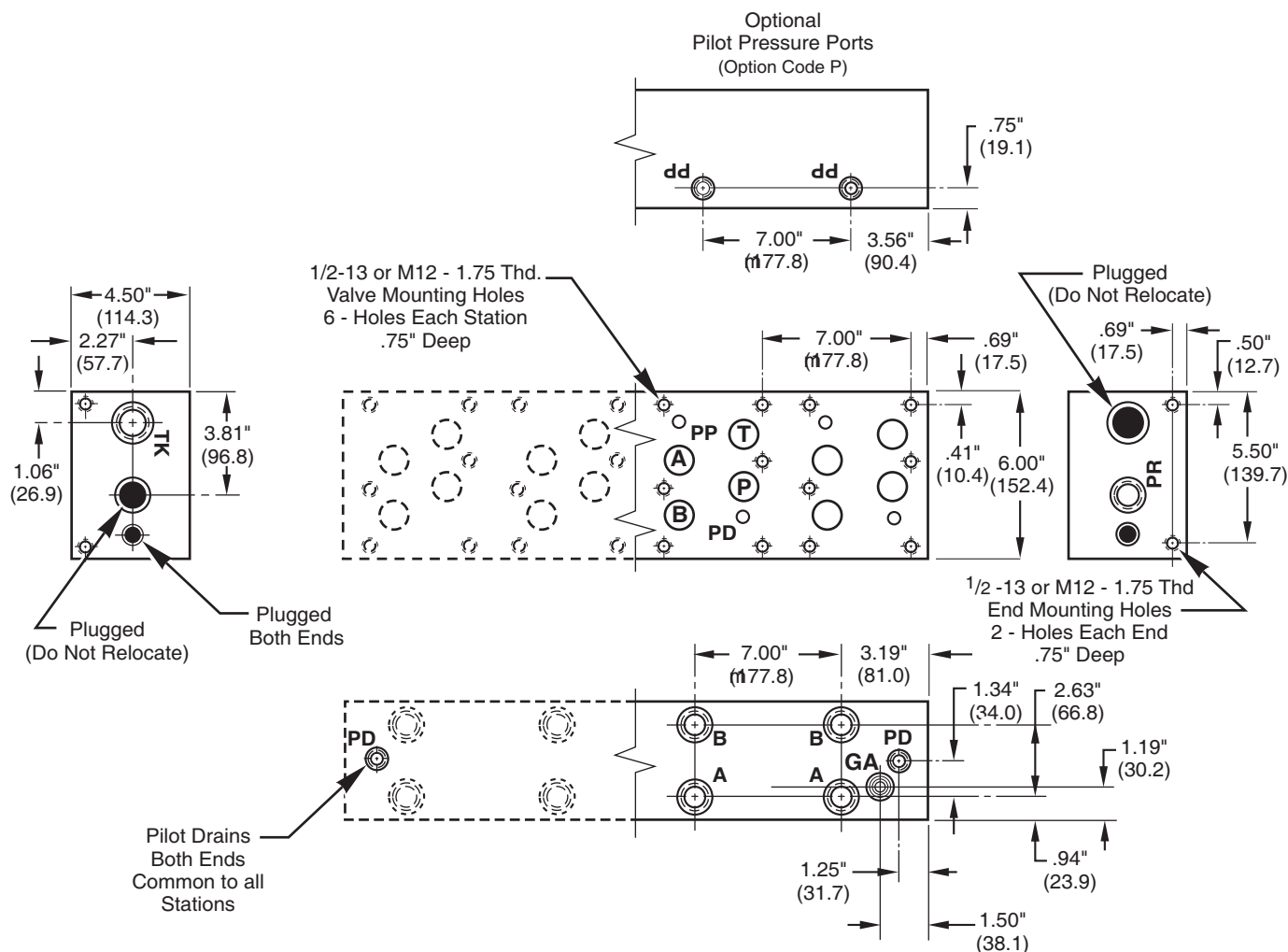
D08 Bar Manifold - Series



Length (L) 7.00" Spacing Only			
No. of Stations	2	3	4
Valve Center Spacing	12.56"	19.56"	26.56"

Note: Relief Cavities and Gauge Port not available in standard D08 Series Manifolds

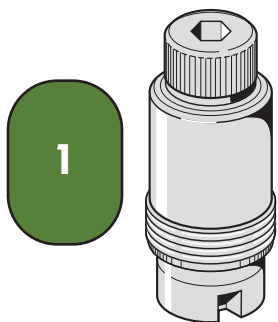
Additional stations available, consult factory.



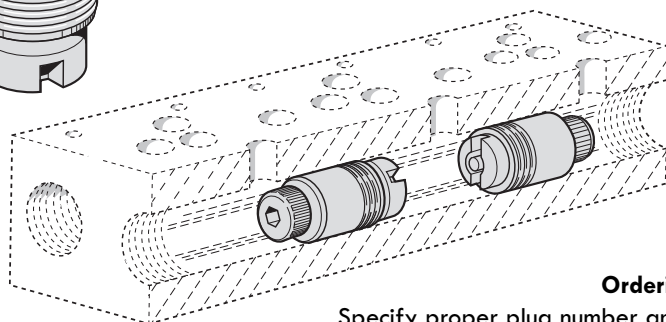
Port Size Chart

Thread Code	PR	TK	A & B	PD & Pilot Pressure Ports	Optional Gauge Port
P	1" NPT	1 1/4" NPT	1" NPT	3/8" NPT	1/4" NPT
S	#16 SAE	#20 SAE	#16 SAE	#6 SAE	#4 SAE G6 - #6 SAE
B	1" BSPP	1 1/4" BSPP	1" BSPP	3/8" BSPP	-
T	1" BSPT	1 1/4" BSPT	1" BSPT	3/8" BSPT	-
M	M33	M42	M33	M14	-

NOTE: For Mounting Bracket Kit (BK-A08) dimensions, see page 1-14.



NOTE: See Preceding Manifold pages
for Specific MagnaLox Standard
Configurations with Options



Features & Advantages

- * Suitable for mild steel, ductile iron or aluminum manifolds
- * Leak free
- * Blocks pressure from both sides
- * Permanent
- * May be inserted to any depth in blind or thru holes
- * **INSTALLED AT FACTORY BY MAGNALOX**
or Field Installation by Customer **

Multiple plugs can be used to isolate pressure line or
tank line flows to or from various valve stations.

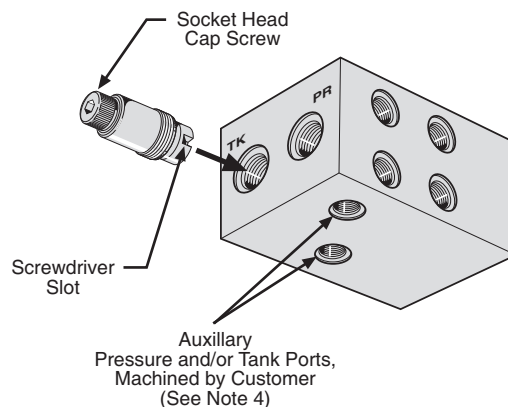
Ordering Data

Specify proper plug number and location(s) required in manifold

Notes:		1 - Isolation Plug Location is specified by using the following codes after the "I" option designation:	
Port	Location*	Examples:	
P - Pressure Port	A - Between Stations 1 & 2	Option Code for Pressure Isolation between stations 3 & 4 = IPC	
T - Tank Port	B - Between Stations 2 & 3	Option Code for Tank Isolation between stations 1 & 2 = ITA	
	C - Between Stations 3 & 4	Option Code for Pressure Isolation between stations 1 & 2 and	
	D - Between Stations 4 & 5 (etc.)	Tank Isolation between stations 2 & 3 = IPATB	
		*Location is determined with A & B ports facing forward, valves up and numbering from left to right	

Installation Instructions for Customer Installed Isolation Plugs

1. Make sure the correct plug is being used for the size of manifold and passage.
2. Insert the plug into the pressure or tank passage to proper depth between the valve stations being isolated.
3. Tighten the socket head cap screw to the specified torque setting while holding other end of plug using the screwdriver slot provided.
4. If more than one plug is being installed in a given passage, insert a screwdriver through a customer machined auxiliary port or a pre-existing flow passage to secure the slotted end of the plug while tightening.



CAUTION: Be sure the isolation plugs do not block the inlet or outlet port of the valve stations.

** Isolation Plugs for Customer Installation

Aluminum Manifolds:

Customer must supply MagnaLox with I.D. dimension of passage to be isolated if ordering for previously supplied manifold.

Customer assumes all responsibility and liability resulting from isolation Plug installation.

Ductile/Steel Manifolds:

Recommend installation by MagnaLox.

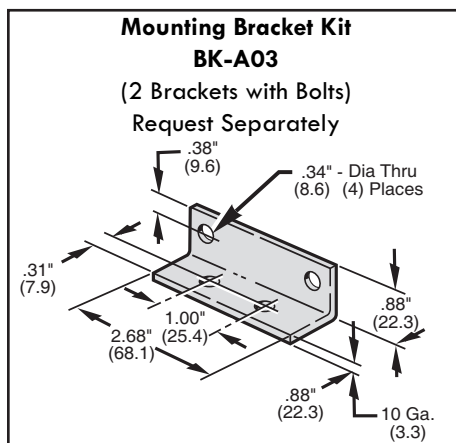
NFA MANIFOLD SIZE	SYSTEM PASSAGE	PLUG PART NUMBER FOR ALUMINUM MANIFOLDS		PLUG PART NUMBER FOR DUCTILE/STEEL MANIFOLDS
		MAGNALOX PART NO.	TORQUE SETTING*	MAGNALOX PART NO.
D03 SBM- _SP03	Pressure & Tank	IP-AP03-0	480 in lbs.	IP-SP03-0
D03 BM- _HP03	Pressure & Tank	IP-AP03-1	480 in lbs.	IP-SP03-1
D03 BMR- _SP03	Pressure & Tank	--	480 in lbs.	IP-SP03-1
D03 BMR- _H03	Pressure	--	960 in lbs.	IP-SP05-0
	Tank	--	1680 in lbs.	IP-SP08-0
D05 BM- _SP05	Pressure	IP-AP05-0	960 in lbs.	IP-SP05-0
	Tank	IP-AT05-0	1,200 in lbs.	IP-ST05-0
D05 BM- _HP05	Pressure	IP-AP08-0	1,680 in lbs.	IP-SP08-0
	Tank	IP-AT05-1	1,680 in lbs.	IP-ST05-1
D08 BM- _SP08	Pressure	IP-AP08-0	1,680 in lbs.	IP-SP08-0
	Tank	IP-AT08-0	1,680 in lbs.	IP-ST08-0
D08 BMR- _HP08	Pressure	--	1,680 in lbs.	IP-ST08-0
	Tank	--	--	--

Manifold Hardware

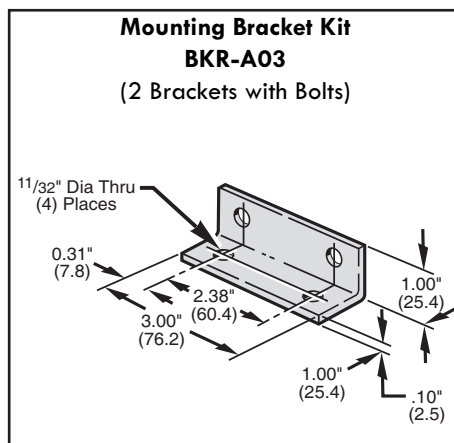
Mounting Flange & Mounting Bracket Kits



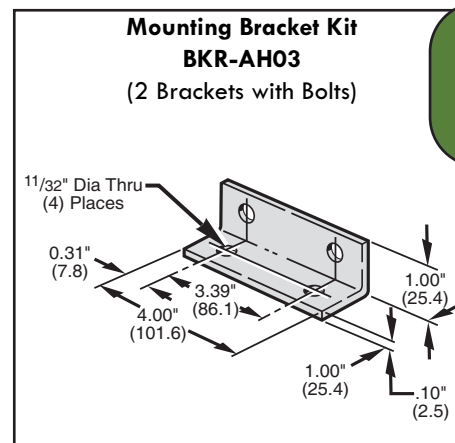
D03 Bar Manifold Parallel & Series



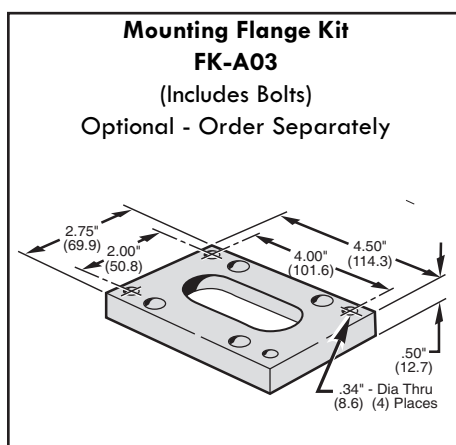
D03 Standard Flow Retro Design Manifold



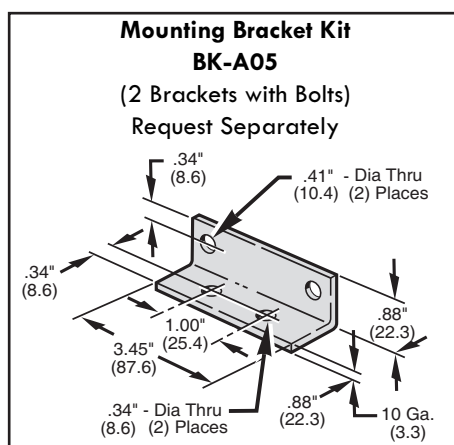
D03 High Flow Retro Design Manifold



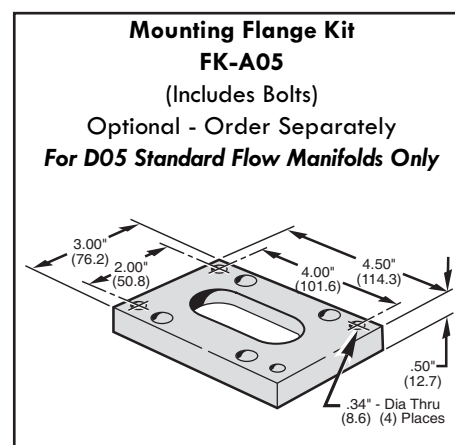
D03 Bar Manifold Parallel & Series



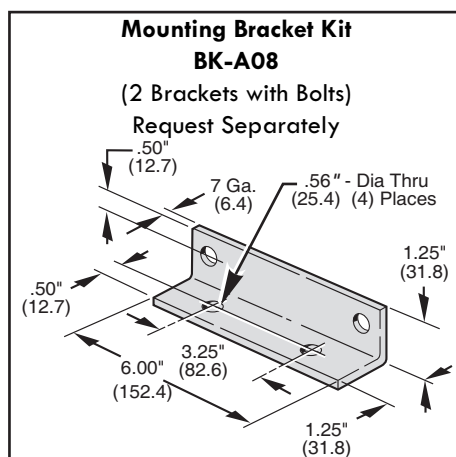
D05 Bar Manifold Parallel & Series



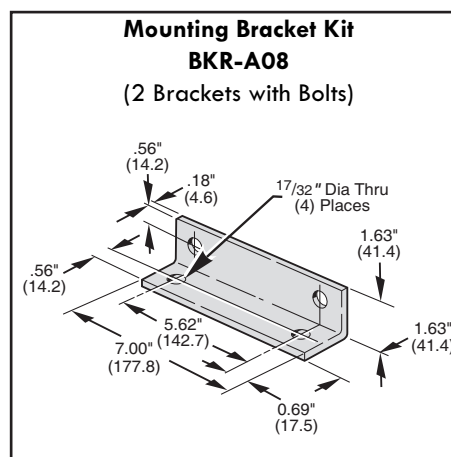
D05 Bar Manifold Parallel & Series



D08 Bar Manifold Parallel & Series



D08 High Flow Retro Design Manifold



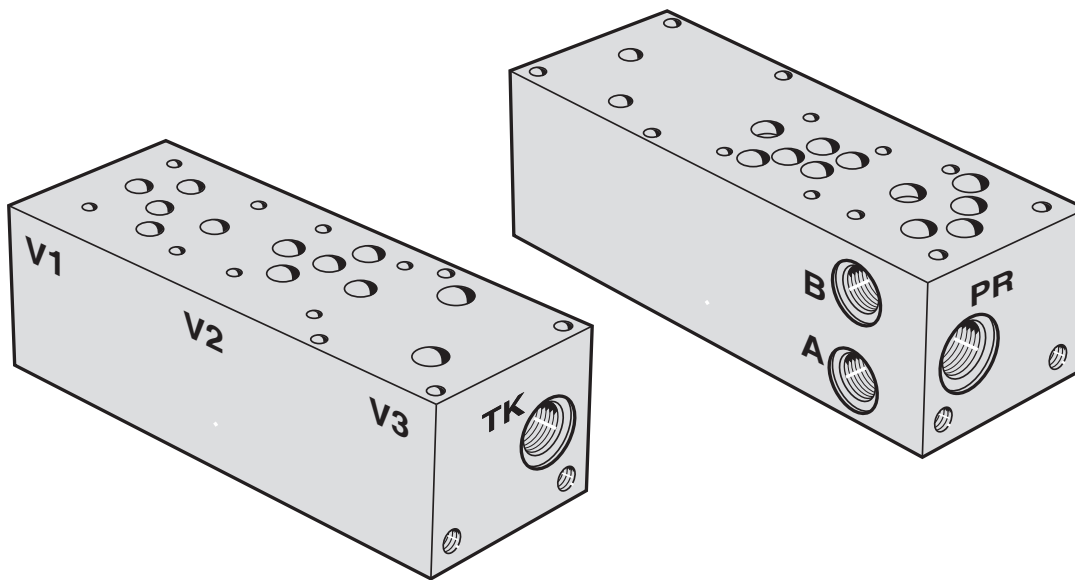
INDEX:

2-1 D05 Tank Line Feed Control Manifold

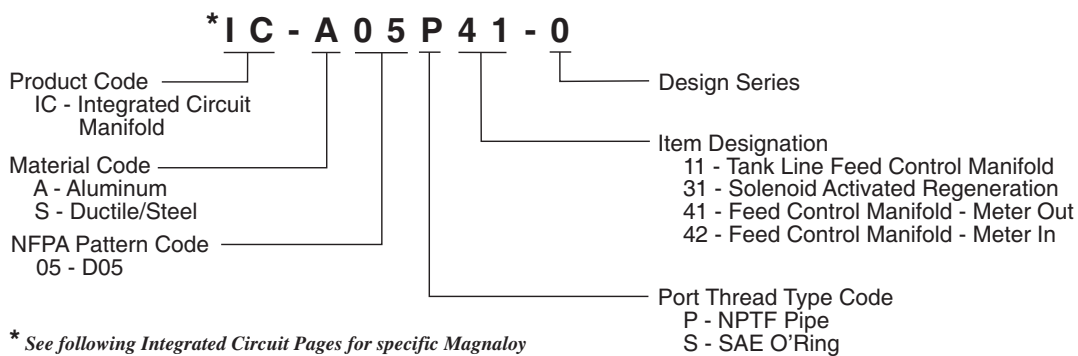
2-2 D05 Feed Control Manifold - Cylinder Port Meter Out and Meter In

2-3 D05 Solenoid Activated Regeneration Module

2



MAGNALOY IC MANIFOLD PART NUMBER BREAKDOWN



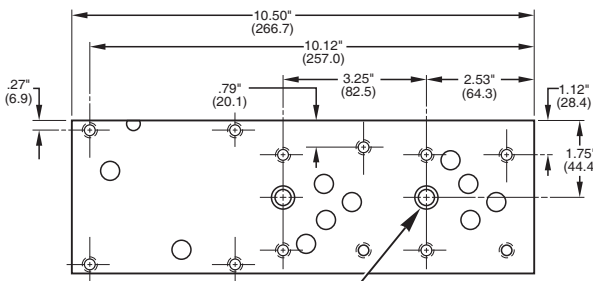
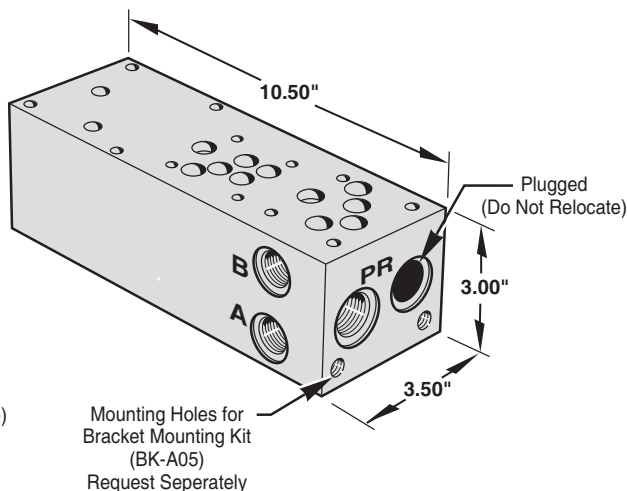
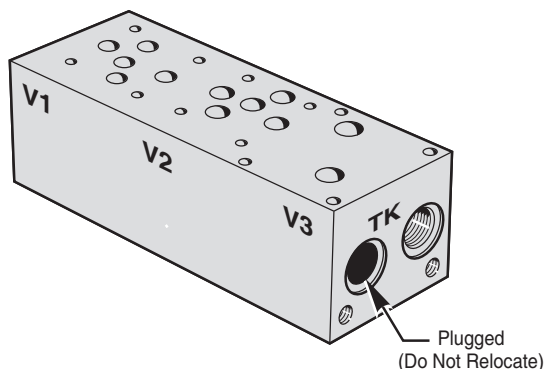
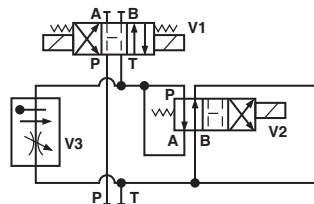
Integrated Circuit Manifold

D05 Tank Line Feed Control Manifold

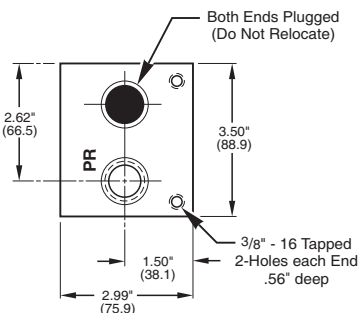
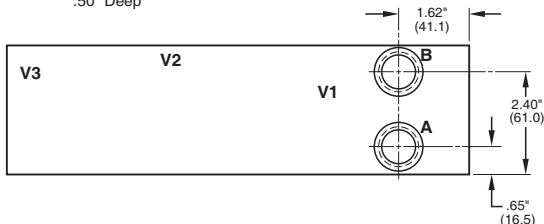
The integrated circuit manifold, Number IC-A05x11-0 and IC-S05x11-0, provides a "Meter Out" pressure compensated flow control circuit. The flow control is placed in the tank line to allow control in either/both direction(s) of travel. Selector valve (V2) allows electrical switching from rapid travel (nominal flow of 10 GPM) to feed (from fractional to 6.5 GPM). Note: Single rod end cylinders will not have the same speed in both directions.

Valves Required

- V1 — Directional Control Valve (NFPA D05)
- V2 — Directional Control Valve, Spring Off-Set (NFPA D05)
- V3 — Pressure Compensated Flow Control (NFPA 2F02)



Two Counterbored Mounting Holes for 5/16" Socket Head Cap Screws .50" Deep

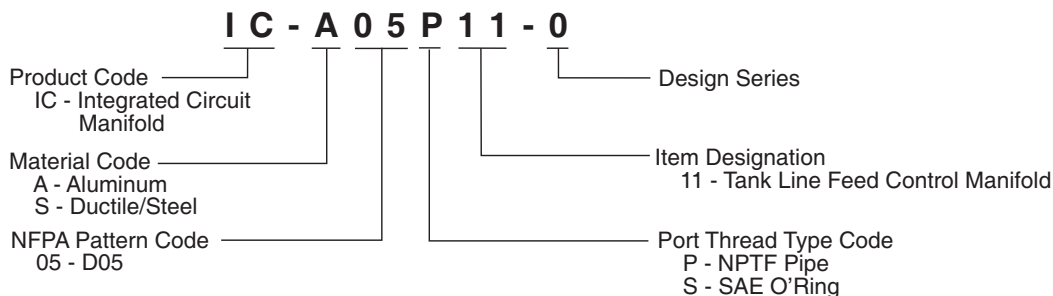


Port Designation	IC_05P11-0	IC_05S11-0
A & B	1/2" NPTF	#8 SAE
PR	3/4" NPTF	#12 SAE
TK	3/4" NPTF	#12 SAE

Part Number	
SAE	IC-A05S11-0 Aluminum IC-S05S11-0 Ductile/Steel
NPT	IC-A05P11-0 Aluminum IC-S05P11-0 Ductile/Steel

NOTE: For Mounting Bracket Kit (BK-A05) dimensions, see page 1-14.

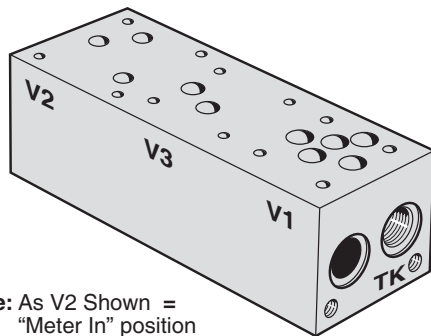
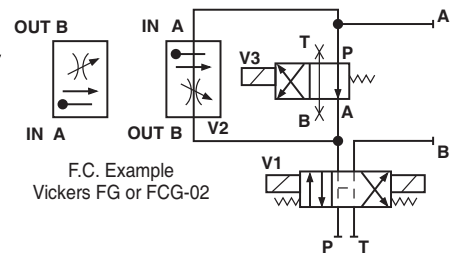
MAGNALOY IC MANIFOLD PART NUMBER BREAKDOWN



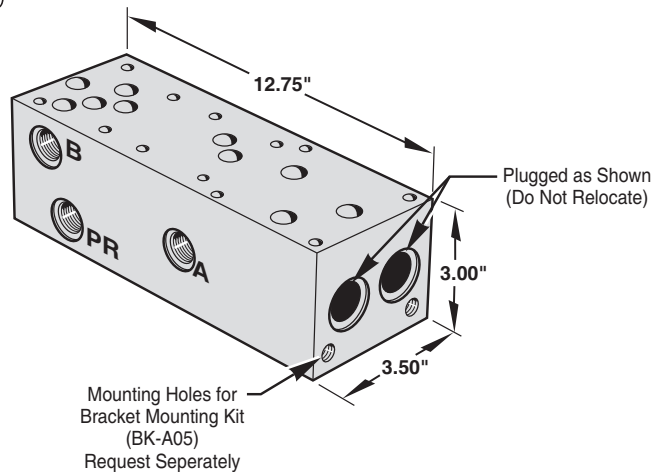
The integrated circuit manifold, Number IC-_05x41-0, provides a "Meter Out" and IC-_05x42 provides a "Meter In" pressure compensated flow control circuit. The flow control is placed in the port line in parallel with a selector valve which allows electrical switching to rapid transverse (nominal flow of 10 GPM) or controlled speed (from fractional to 6.5 GPM).

Valves Required

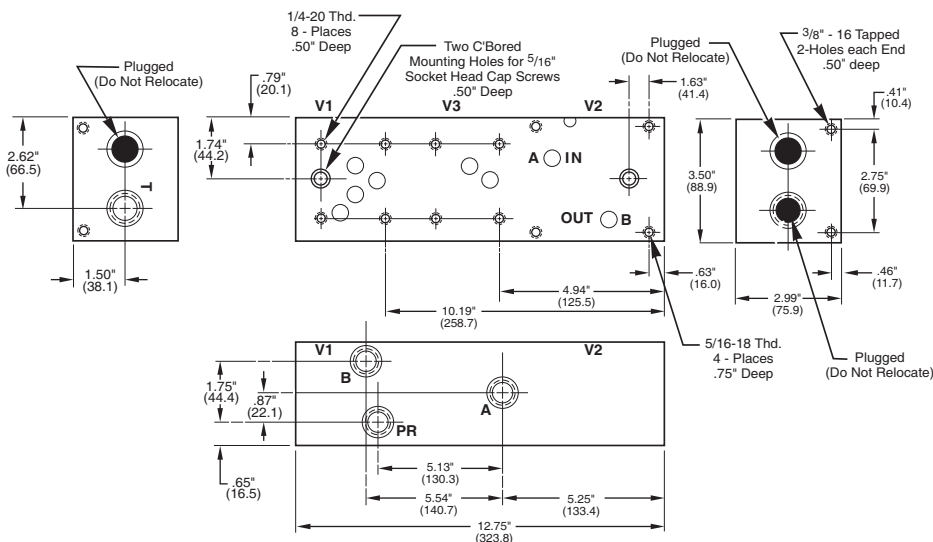
- V1 — Directional Control Valve (NFPA D05)
- V2 — Pressure Compensated Flow Control Valve (NFPA 2F02)
- V3 — Directional Control Valve, Spring Offset, Open Center Spool Recommended (NFPA D05)



Note: As V2 Shown = "Meter In" position
180° Rotation = "Meter Out" position



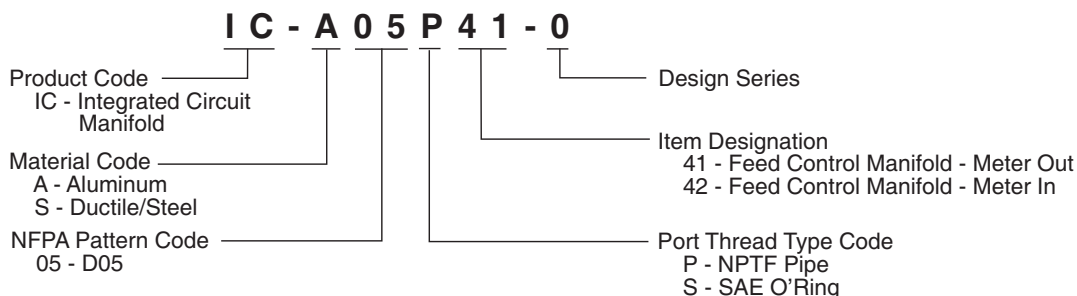
NOTE: For Mounting Bracket Kit (BK-A05) dimensions, see page 1-14.



Port Designation	IC-_05P4_-0	IC-_05S4_-0
A, B & P	1/2" NPT	#8 SAE
TK	3/4" NPT	#12 SAE

Part Number	
SAE	IC-A05S4_-0 Aluminum
	IC-S05S4_-0 Ductile/Steel
NPT	IC-A05P4_-0 Aluminum
	IC-S05P4_-0 Ductile/Steel

MAGNALOY IC MANIFOLD PART NUMBER BREAKDOWN



Integrated Circuit Manifold

D05 Solenoid Activated Regeneration Module

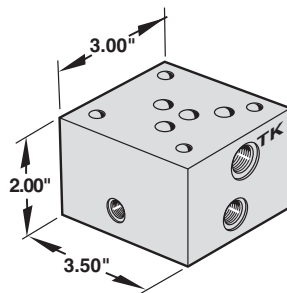


The integrated circuit modules, Number IC-A05x31-0 and IC-S05x31-0, provide a regeneration circuit where the oil is discharged from the rod end of a differential area, (2:1) cylinder is combined with the pump flow for rapid, regenerative, forward travel. The module must be mounted on a 2 station, D05, parallel bar manifold (see page 1-3) to complete the circuit assembly.

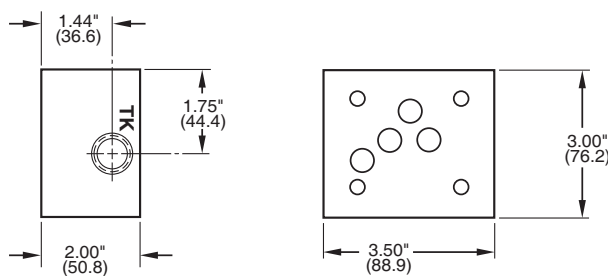
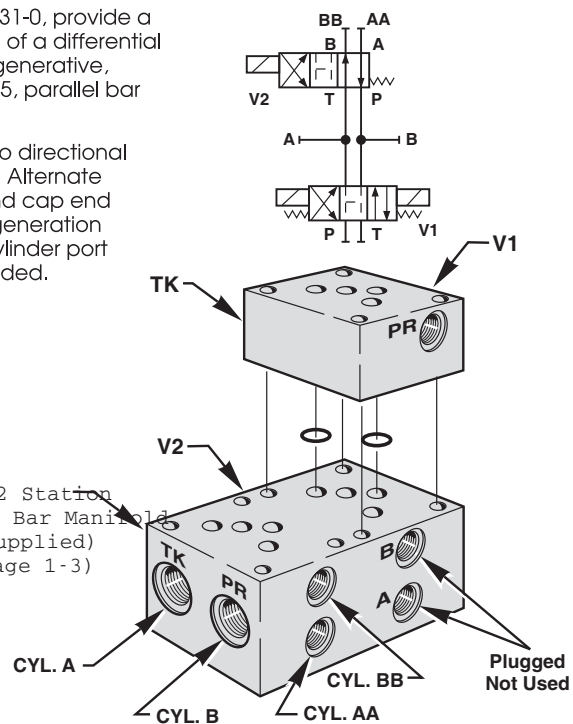
When the machine cycle requires full force, an electrical signal to directional control valve V2 redirects rod end flow to tank through valve V1. Alternate ports are provided for both the rod end connection (AA) (BB) and cap end connection (A) (B). This allows the designer to select whether regeneration occurs when V2 is energized or de-energized and a choice of cylinder port combinations. Ports not used should be plugged with plugs provided.

Valves Required

- V1 — Directional Control Valve (NFPA D05)
- V2 — Directional Control Valve, Spring Offset, Open Center Spoon Recommended (NFPA D05)



D05 - 2 Station Parallel Bar Manifold (Not Supplied) (See page 1-3)



Supplied Hardware

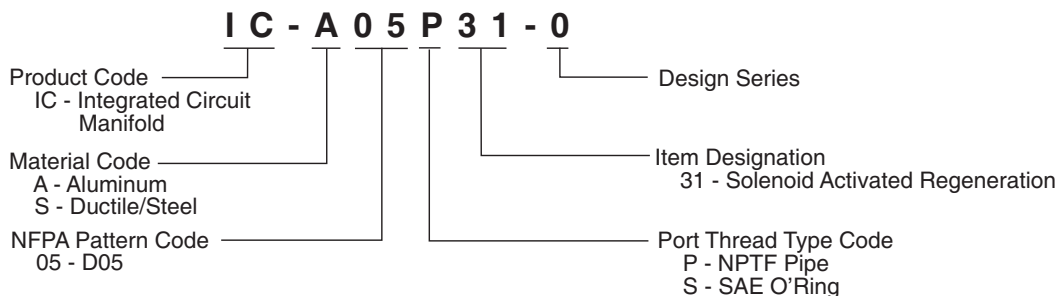
O-Rings — Viton (2) 5/8" OD x 1/2" ID x 1/16" CS

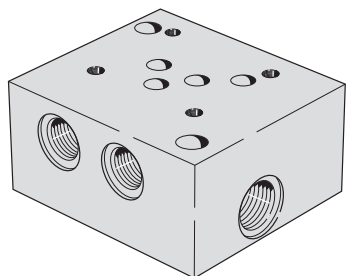
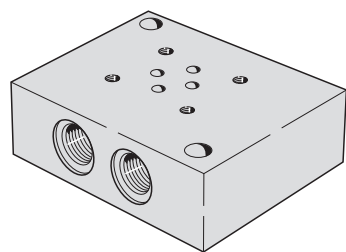
O'Ring Pocket for 5/8" O.D. O'Ring 2 - Places

Port Designation	IC-05P31-0	IC-05S31-0
Pressure Conn	1/2" NPTF	#8 SAE
Tank Conn	1/2" NPTF	#8 SAE
Cyl AA & BB	1/2" NPTF	#8 SAE
Cyl A & B	3/4" NPTF	#12 SAE

Part Number	
SAE	IC-A05S31-0 Aluminum IC-S05S31-0 Ductile/Steel
NPT	IC-A05P31-0 Aluminum IC-S05P31-0 Ductile/Steel

MAGNALOY IC MANIFOLD PART NUMBER BREAKDOWN





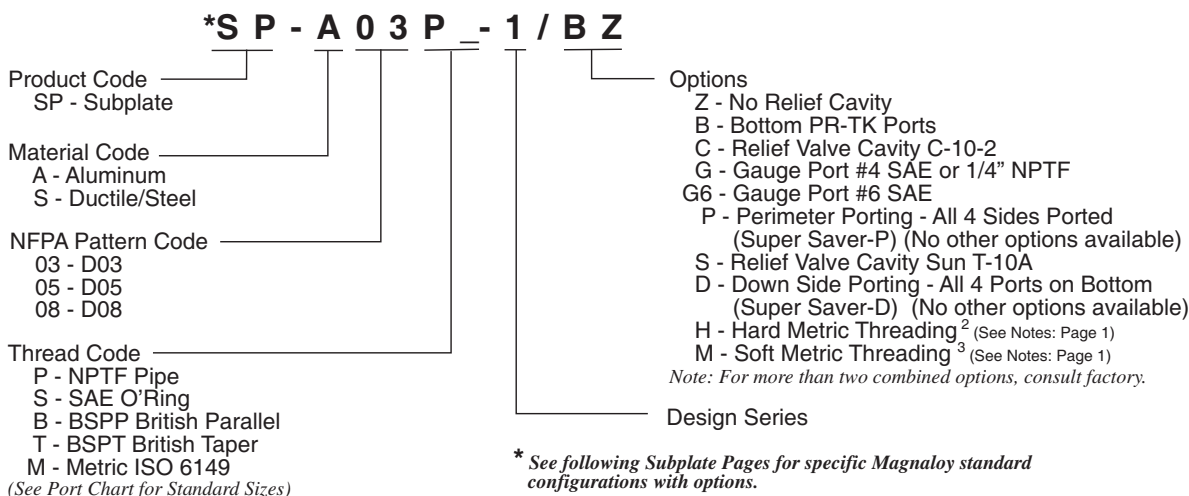
INDEX		Part Number	
Super Saver Subplates		Aluminum	Ductile/Steel
3-1	NFPA D03 Valves - Perimeter Ported	SP-A03_-1/PZ	SP-S03_-1/PZ
3-2	NFPA D03 Valves - Down Side Ported	SP-A03_-1/DZ	SP-S03_-1/DZ
3-3	NFPA D05 Valves - Perimeter Ported	SP-A05_-1/PZ	SP-S05_-1/PZ
3-4	NFPA D05 Valves - Down Side Ported	SP-A05_-1/DZ	SP-S05_-1/DZ
Side Ported Subplates		Aluminum	Ductile/Steel
3-5	NFPA D03 Valves - Side Ported	SP-A03_-1/_	SP-S03_-1/_
3-6	NFPA D05 Valves - Side Ported	SP-A05_-1/_	SP-S05_-1/_
3-7	NFPA D05 Valves - High Flow Side Ported	SP-AH05_-1/_	SP-SH05_-1/_
3-8	NFPA D08 Valves - Side Ported	SP-A08_-1/_	SP-S08_-1/_

Standard Subplate - includes specified NFPA valve pattern mounting on the top surface of the subplate, A & B ports per the specified thread type on the sides of the subplate and pressure and tank ports per the specified thread type on the bottom and side surfaces of the subplate. Mounting provisions include two (2) counter bored through holes on the top surface of the subplate.

Options:

- Z** - No Relief Valve Cavity - specifies that no relief valve cavity is provided (standard subplate).
- B** - Bottom PR & TK ports - additional pressure and tank ports per specified thread type located on the bottom of the subplate. (Not available with P or D options).
- C** - Relief Valve Cavity - common cavity configuration added to a back surface of the subplate.
- D** - Down Side Porting - (Super Saver - DZ) - all 4 ports (A, B, PR & TK) are located on the bottom surface of the subplate. No other porting or options are provided.
- P** - Perimeter Porting - (Super Saver - PZ) - locates the A, B, PR & TK ports on a separate side surface of the subplate. No other porting or options are provided.
- S** - Relief Valve Cavity - Sun cavity configuration added to a back surface of the subplate.
- G** - #4 SAE Gauge Port with "S", "B", or "M" thread code OR 1/4" NPT with "P" or "T" thread code.
- G6** - #6 SAE Gauge Port with "S", "B" or "M" thread code.
- H** - Hard Metric Threading - when British or Metric thread type is specified, the valve mounting holes are also metric threaded.
- S** - Soft Metric Threading - indicates mixed metric threading. When NPT or SAE thread type is specified, valve mounting holes are metric threaded. No Code (M) indicates the valve mounting holes are English threaded.

MAGNALOY SUBPLATE PART NUMBER BREAKDOWN



Super Saver Subplates

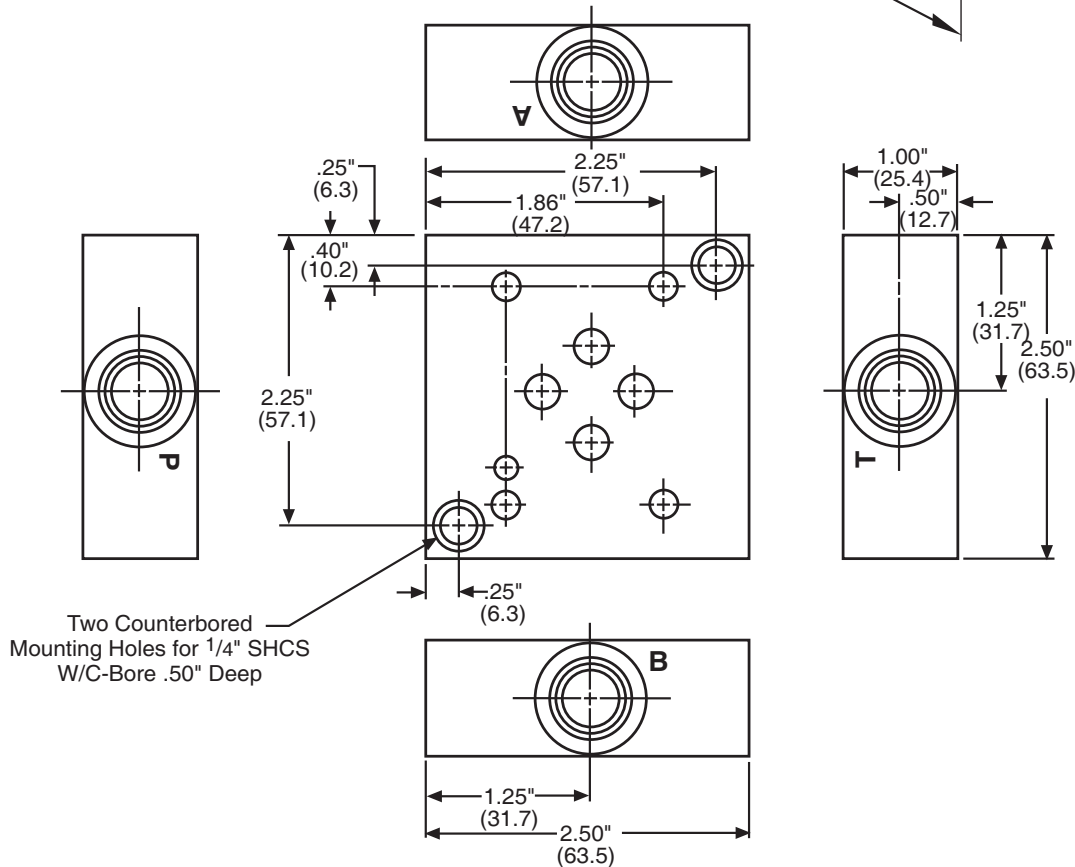
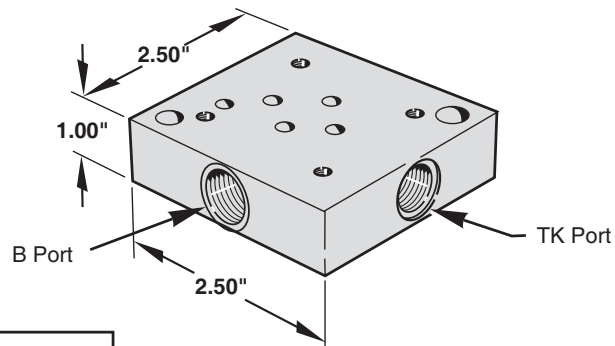
D03 - Perimeter Ported



Application:

Subplate used for mounting directional valve with NFPA D03 Interface.

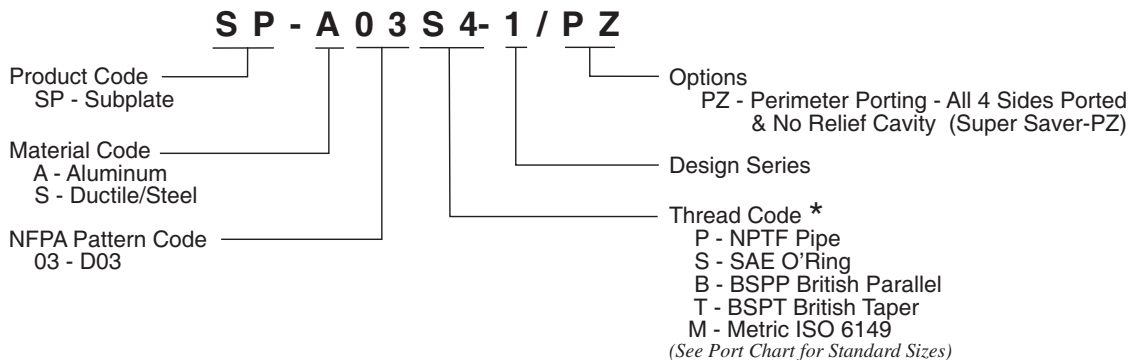
A, B, PR & TK ports on 4 separate sides.



Thread Code	PR, TK, A & B
P4	1/4" NPT
S4	#4 SAE
B4	1/4" BSPP
T4	1/4" BSPT
M4	M10 x 1.0
P6	3/8" NPT
S6	#6 SAE
B6	3/8" BSPP
T6	3/8" BSPT
M6	M14 x 1.5

3

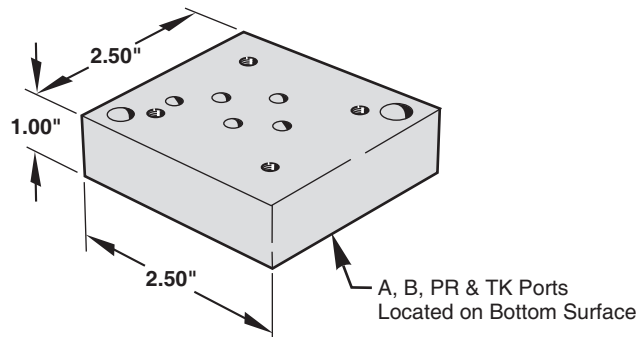
MAGNALOY D03 SUPER SAVER SUBPLATE PART NUMBER BREAKDOWN



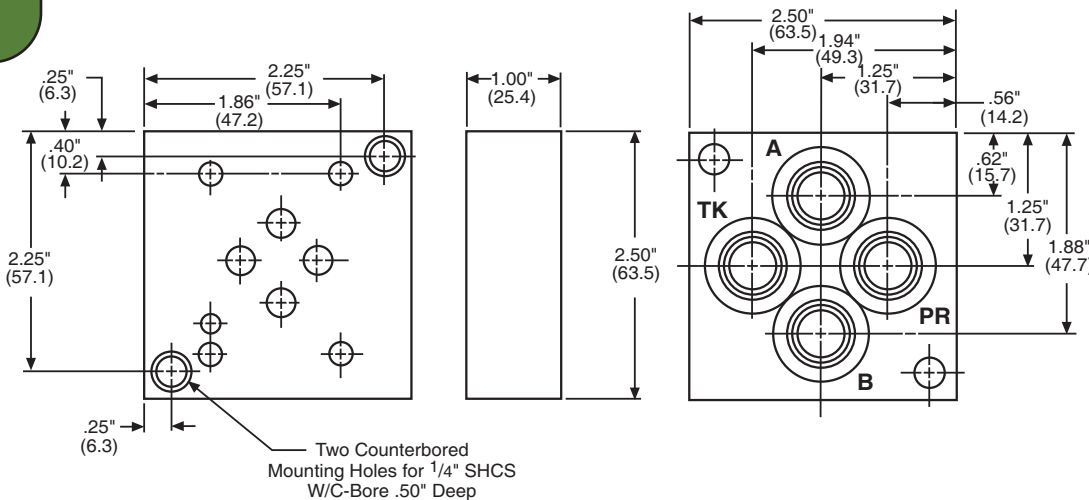
Application:

Subplate used for mounting directional valve with NFPA D03 Interface.

A, B, PR & TK ports on bottom surface.



3



* Thread Code	PR, TK, A & B
P4	1/4" NPT
S4	#4 SAE
B4	1/4" BSPP
T4	1/4" BSPT
M4	M10 x 1.0
P6	3/8" NPT
S6	#6 SAE
B6	3/8" BSPP
T6	3/8" BSPT
M6	M14 x 1.5

MAGNALOY D03 SUPER SAVER SUBPLATE PART NUMBER BREAKDOWN

S P - A 0 3 P 4 - 1 / D Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
03 - D03

Options

DZ - Down Side Porting - All 4 Ports on Bottom & No Relief Cavity (Super Saver-DZ)

Design Series

Thread Code *

P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149

(See Port Chart for Standard Sizes)

Super Saver Subplates

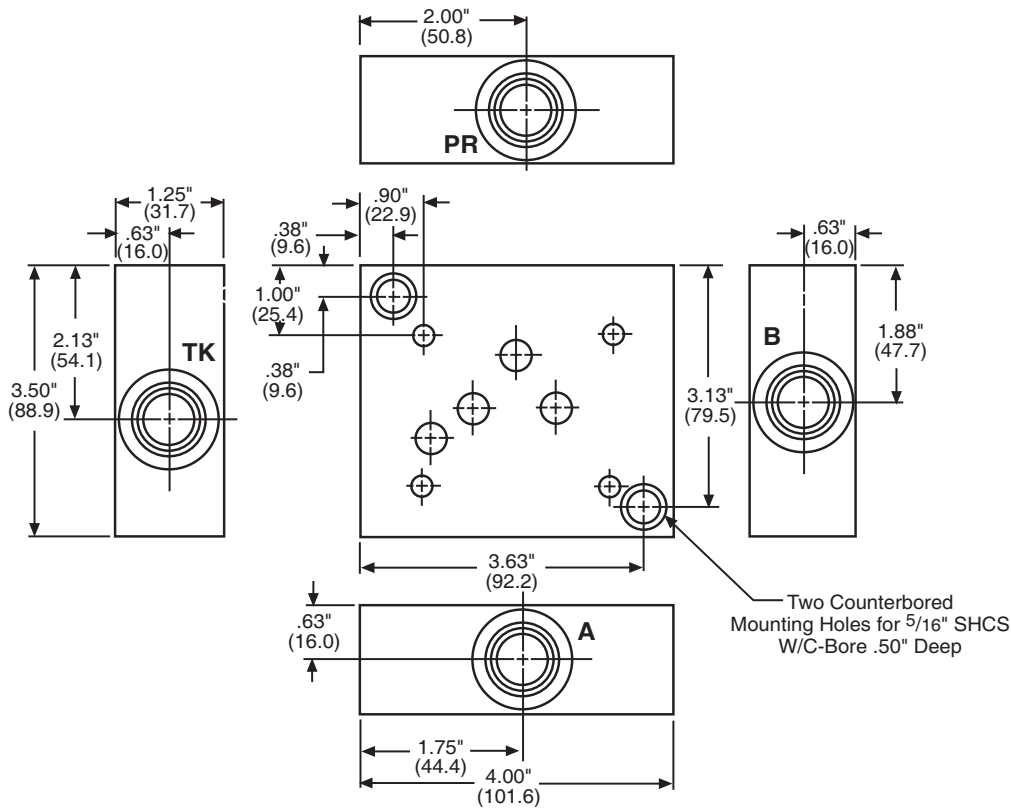
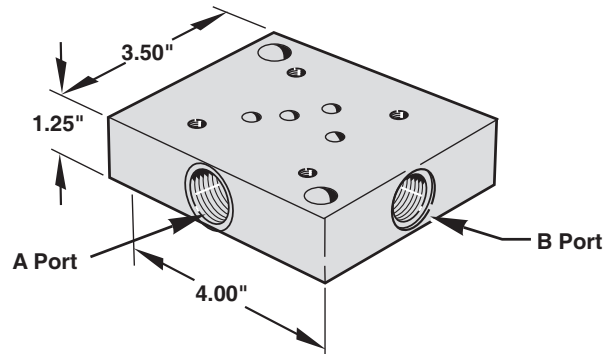
D05 - Perimeter Ported



Application:

Subplate used for mounting directional valve with NFPA D05 Interface.

A, B, PR & TK ports on 4 separate sides.



* Thread Code	PR, TK, A & B
P6	3/8" NPT
S6	#6 SAE
B6	3/8" BSPP
T6	3/8" BSPT
M6	M14 x 1.5
P8	1/2" NPT
S8	#8 SAE
B8	1/2" BSPP
T8	1/2" BSPT
M8	M18 x 1.5

3

MAGNALOY D05 SUPER SAVER SUBPLATE PART NUMBER BREAKDOWN

S P - A 0 5 S 6- 1 / P Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
05 - D05

Options
PZ - Perimeter Porting - All 4 Sides Ported
& No Relief Cavity (Super Saver-PZ)

Design Series

Thread Code *
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Chart for Standard Sizes)

magnaloy coupling company 501 Commerce Drive Alpena, MI 49707 **989 356-2186**

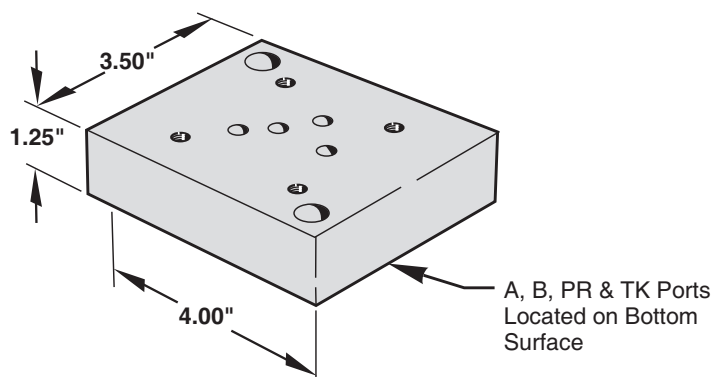
A Division of Douville Johnston Corporation Fax: 989 354-4190 <http://www.magnaloy.com>

3-3

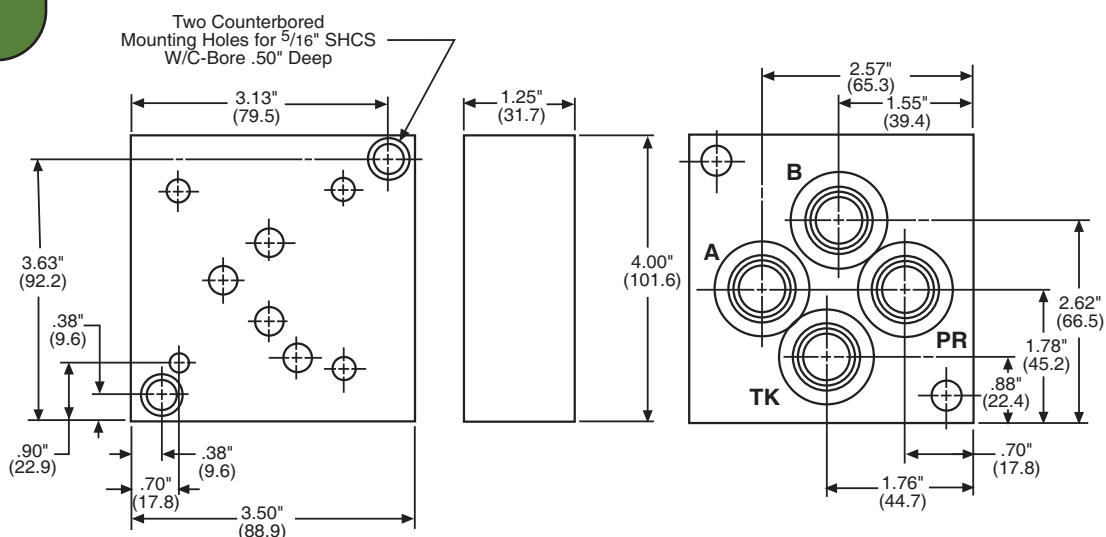
Application:

Subplate used for mounting directional valve with NFPA D05 Interface.

A, B, PR & TK ports on bottom surface.



3



Thread Code	PR, TK, A & B
P6	3/8" NPT
S6	#6 SAE
B6	3/8" BSPP
T6	3/8" BSPT
M6	M14 x 1.5
P8	1/2" NPT
S8	#8 SAE
B8	1/2" BSPP
T8	1/2" BSPT
M8	M18 x 1.5

MAGNALOY D05 SUPER SAVER SUBPLATE PART NUMBER BREAKDOWN

S P - A 0 5 P 6- 1 / D Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
05 - D05

Options
DZ - Down Side Porting - All 4 Ports on Bottom
& No Relief Cavity (Super Saver-DZ)

Design Series

Thread Code*
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Chart for Standard Sizes)

Side Ported Subplates D03 - Side Ported



Application:

Subplate used for mounting directional valve with NFPA D03 Interface.

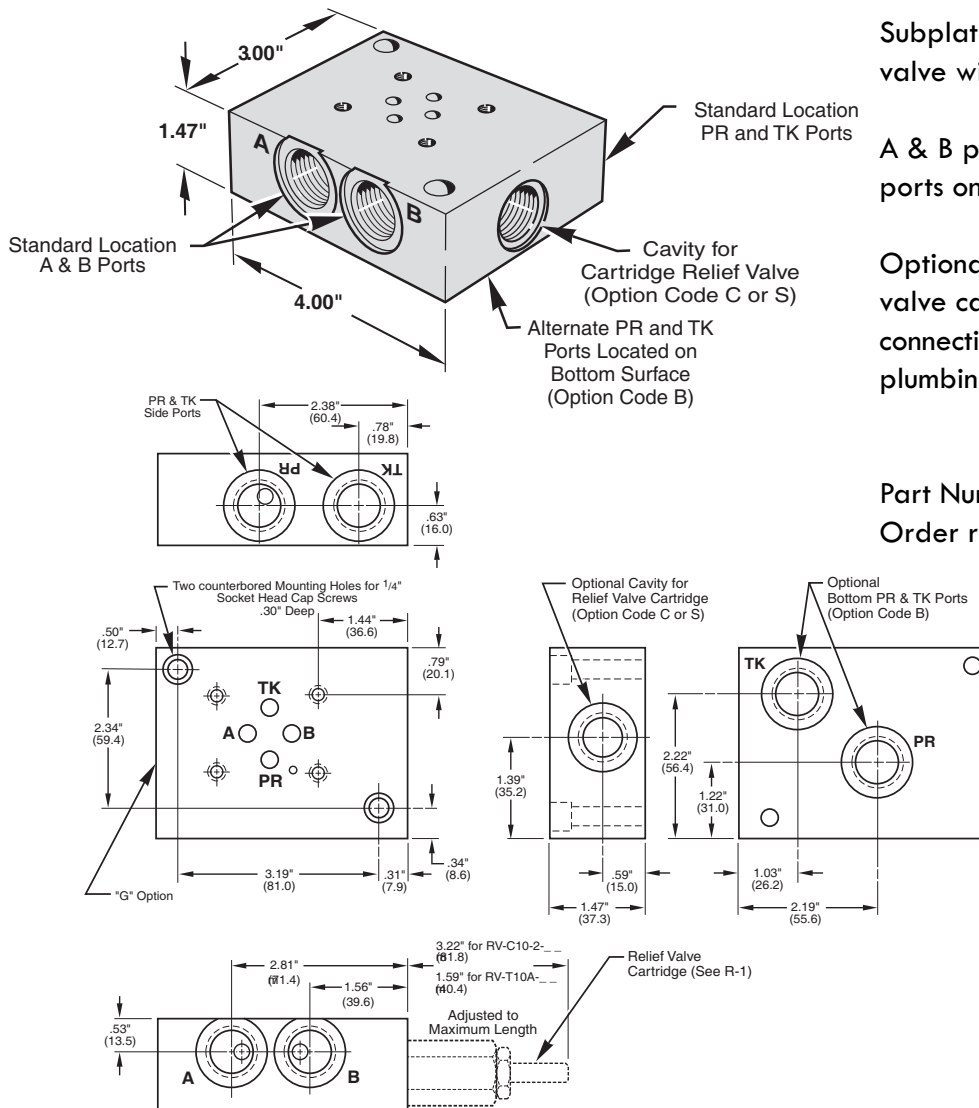
A & B ports on a common side, PR & TK ports on opposite side.

Optional features include cartridge relief valve cavity with the tank and pressure connections on the bottom surface to allow plumbing directly through the reservoir top.

Note:

Part Number includes the subplate only.
Order relief valve cartridge separately.

3



* Thread Code	PR, TK, A & B
P6	3/8" NPT
S6	#6 SAE
B6	3/8" BSPP
T6	3/8" BSPT
M6	M14 x 1.5
P8	1/2" NPT
S8	#8 SAE
B8	1/2" BSPP
T8	1/2" BSPT
M8	M18 x 1.5

MAGNALOY D03 SUBPLATE PART NUMBER BREAKDOWN

S P - A 0 3 P 6 - 1 / B Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
03 - D03

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Chart for Standard Sizes)

Options

Z - No Relief Cavity
B - Bottom PR-TK Ports (W/Side PR & TK)
C - Relief Valve Cavity C-10-2
G - Gauge Port #4 SAE or 1/4 NPTF
S - Relief Valve Cavity Sun T-10A
H - Hard Metric Threading² (See Notes: Page 1)
M - Soft Metric Threading³ (See Notes: Page 1)

Note: For more than two combined options, consult factory.

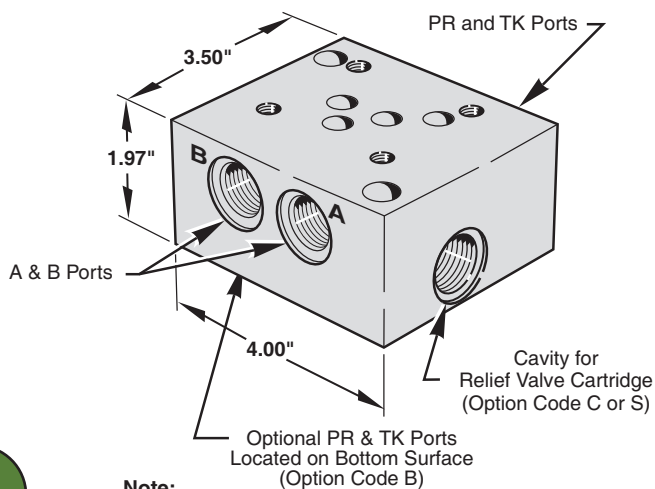
Design Series

Application:

Subplate used for mounting directional valve with NFPA D05 Interface.

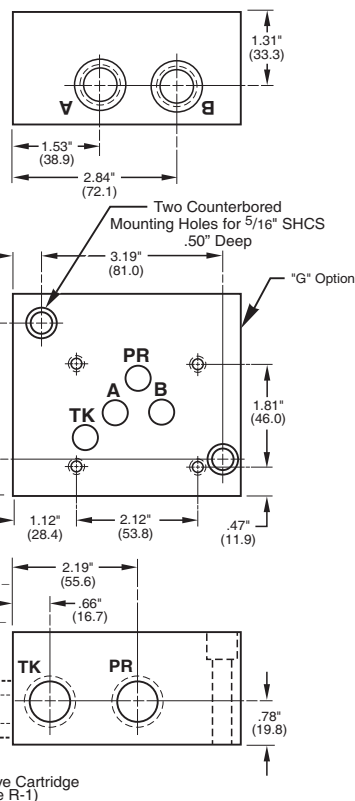
A & B ports on a common side, PR & TK ports on opposite side.

Optional features include cartridge relief valve cavity with the tank and pressure connections on the bottom surface to allow plumbing directly through the reservoir top.



Note:

Part no. includes the subplate only. Order relief valve cartridge separately.



Thread Code	PR, TK, A & B
P6	3/8" NPT
S6	#6 SAE
B6	3/8" BSPP
T6	3/8" BSPT
M6	M14 x 1.5
P8	1/2" NPT
S8	#8 SAE
B8	1/2" BSPP
T8	1/2" BSPT
M8	M18 x 1.5

MAGNALOY D05 SUBPLATE PART NUMBER BREAKDOWN

S P - A 0 5 P 6 - 1 / B Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
05 - D05

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Chart for Standard Sizes)

Options

Z - No Relief Cavity
B - Bottom PR-TK Ports (W/Side PR & TK)
C - Relief Valve Cavity C-10-2
G - Gauge Port #4 SAE or 1/4 NPTF
S - Relief Valve Cavity Sun T-10A
H - Hard Metric Threading² (See Notes: Page 1)
M - Soft Metric Threading³ (See Notes: Page 1)

Note: For more than two combined options, consult factory.

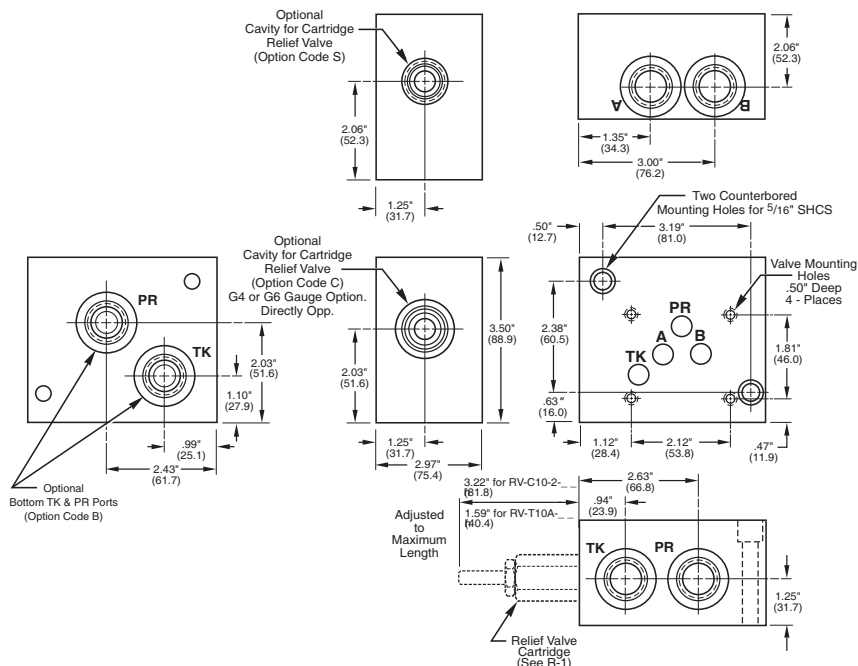
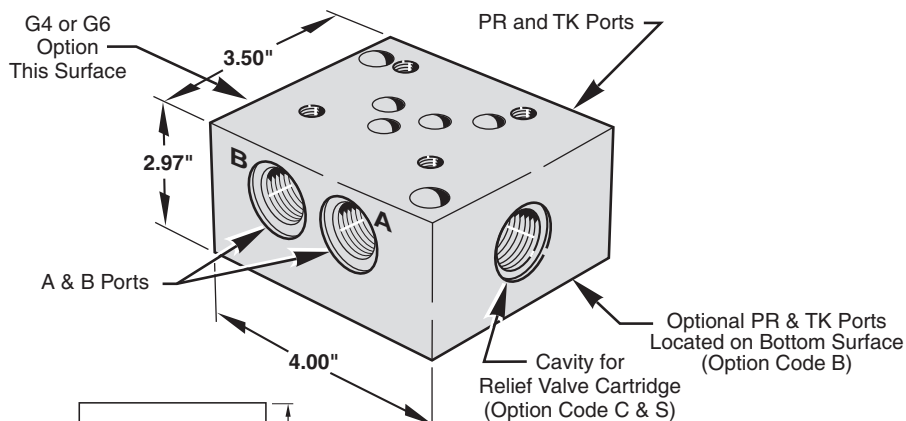
Design Series

Side Ported Subplates D05 - High Flow Side Ported

Application:
Subplate used for mounting directional valve with NFPA D05 Interface.

A & B ports on a common side, PR & TK on opposite side.

Optional features include cartridge relief valve cavity, gauge port and tank and pressure connections on the bottom surface to allow plumbing directly through a reservoir top.



Thread Code	PR, TK, A & B	Valve Mounting
P12	3/4" NPT	1/4-20 UNC
S12	#12 SAE	1/4-20 UNC
B12	3/4" BSPP	M6 - 1.0
T12	3/4" BSPT	M6 - 1.0
M12	M27 x 2.0	M6 - 1.0

Note:
Part no. includes the subplate only. Order relief valve cartridge separately.

MAGNALOY D05 SUBPLATE PART NUMBER BREAKDOWN

S P - A H 0 5 P 1 2 - 1 / B Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
H05 - High Flow D05

Thread Code
P12 - NPTF Pipe
S12 - SAE O'Ring
B12 - BSPP British Parallel
T12 - BSPT British Taper
M12 - Metric ISO 6149
(See Port Chart for Standard Sizes)

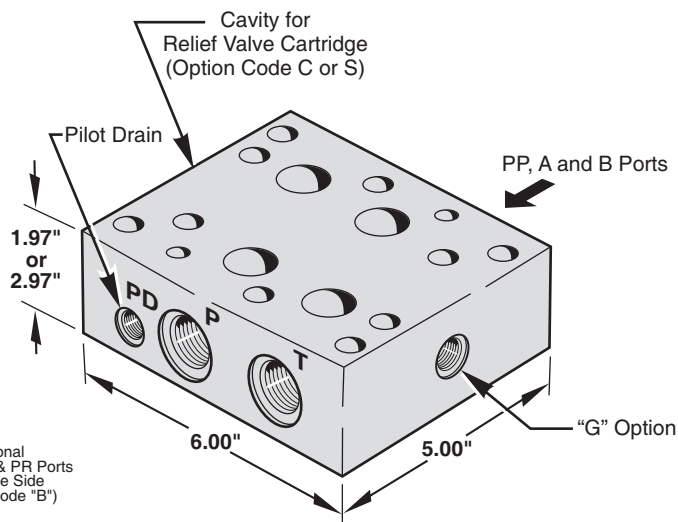
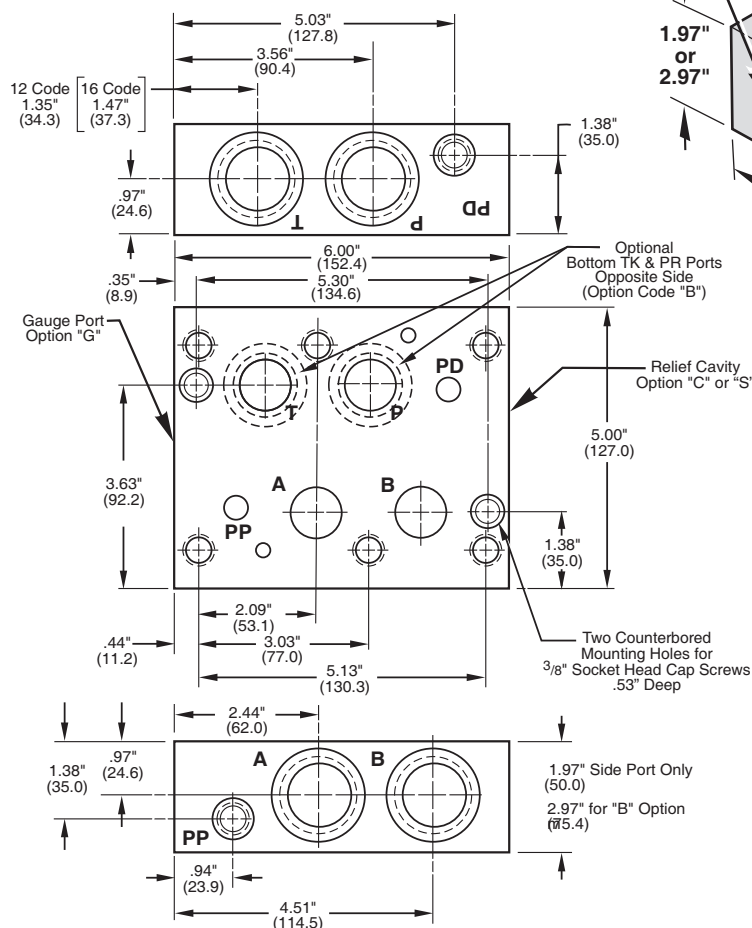
Options
Z - No Relief Cavity
B - Bottom PR-TK Ports (W/Side PR & TK Ports)
C - Relief Valve Cavity C-10-2
G4 - Gauge Port #4 SAE or 1/4 NPTF
G6 - Gauge Port #6 SAE
S - Relief Valve Cavity Sun T-10A
M - Soft Metric Threading³ (See Notes: Page 3)

Note: For more than two combined options, consult factory.

Design Series

Also available in Extra High Flow Design and D05E Alt A or D05H Alt B pattern - Consult Factory

Application:
Side ported subplate used for mounting directional valves with NFPA D08 Interface. Features include A, B and pilot pressure ports on a common side with PR, TK and pilot drain ports on the opposite side.



Thread Code	PR, TK, A & B	PD & PP
P12	3/4" NPT	1/4" NPT
S12	#12 SAE	#6 SAE
B12	3/4" BSPP	1/4" BSPP
T12	3/4" BSPT	1/4" BSPT
M12	M27 x 2.0	M12 x 1.5
P16	1" NPT	1/4" NPT
S16	#16 SAE	#6 SAE
B16	1" BSPP	1/4" BSPP
T16	1" BSPT	1/4" BSPT
M16	M33 x 2.0	M12 x 1.5

MAGNALOY D08 SUBPLATE PART NUMBER BREAKDOWN

S P - A 0 8 P 1 2 - 1 / B Z

Product Code
SP - Subplate

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
08 - D08

Thread Code
P - NPTF Pipe
S - SAE O'Ring
B - BSPP British Parallel
T - BSPT British Taper
M - Metric ISO 6149
(See Port Chart for Standard Sizes)

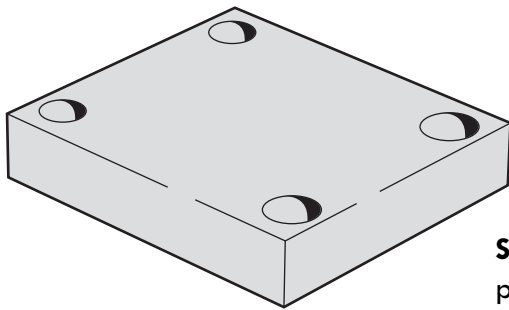
Options
Z - No Relief Cavity
B - Bottom PR-TK Ports (W/Side PR & TK Ports)
C - Relief Valve Cavity C-10-2
G - Gauge Port #4 SAE or 1/4 NPTF
G6 - Gauge Port #6 SAE
S - Relief Valve Cavity Sun T-3A
H - Hard Metric Threading² (See Notes: Page 1)
M - Soft Metric Threading³ (See Notes: Page 1)
Note: For more than two combined options, consult factory.

Design Series

4. Cover Plates



INDEX		Part Number	
For NFPA D03 Valve Stations		Aluminum	Ductile/Steel
4-1	All Ports Blocked	CP-ASP03_-1/Z	CP-SSP03_-1/Z
4-1	All Ports Blocked, Gauge Ports Provided	CP-ASP03_-1/G	CP-SSP03_-1/G
4-2	PR & TK Ports Connected for Series Circuit	CP-ASS03_-1/Z	CP-SSS03_-1/Z
For NFPA D05 Valve Stations		Aluminum	Ductile/Steel
4-3	All Ports Blocked	CP-ASP05_-1/Z	CP-SSP05_-1/Z
4-3	All Ports Blocked, Gauge Ports Provided	CP-ASP05_-1/G	CP-SSP05_-1/G
4-4	PR & TK Ports Connected for Series Circuit	CP-ASS05_-1/Z	CP-SSS05_-1/Z
For NFPA D08 Valve Stations		Aluminum	Ductile/Steel
4-5	All Ports Blocked	CP-ASP08_-1/Z	CP-SSP08_-1/Z
4-5	All Ports Blocked, Gauge Ports Provided	CP-ASP08_-1/G	CP-SSP08_-1/G
4-6	PR & TK Ports Connected for Series Circuit	CP-ASS08_-1/Z	CP-SSS08_-1/Z

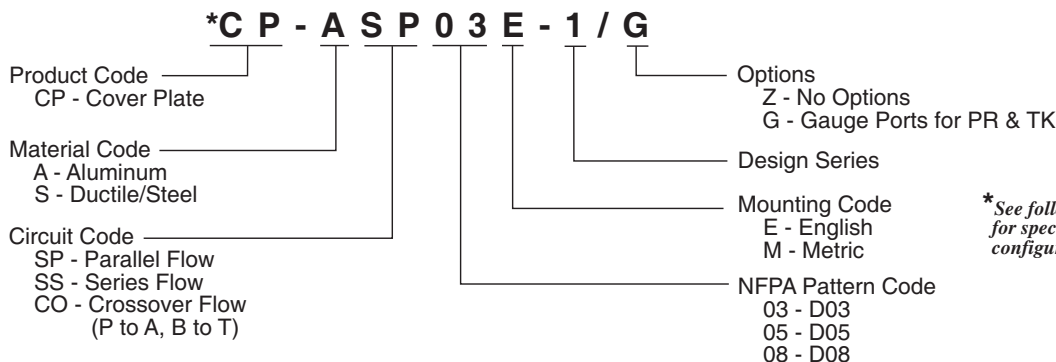


Standard Cover Plate - includes o'ring pockets on the bottom surface to provide o'ring sealing of the NFPA valve pattern. Mounting provisions include four (4) holes (6 on D08 cover plate) on the top surface of the cover plate. Mounting hardware, locating pins (w/D03 and D08 only) and viton o'ring are provided.

Options:

G - Gauge Ports - addition of two (2) gauge ports to the top surface of the cover plate to provide monitoring of the pressure and tank ports.

MAGNALOY COVER PLATE PART NUMBER BREAKDOWN

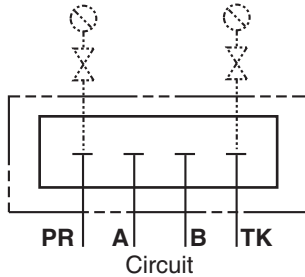


** See following Cover Plate Pages for specific Magnaloy standard configurations with options.*

D03 Cover Plate, Parallel Blank Off

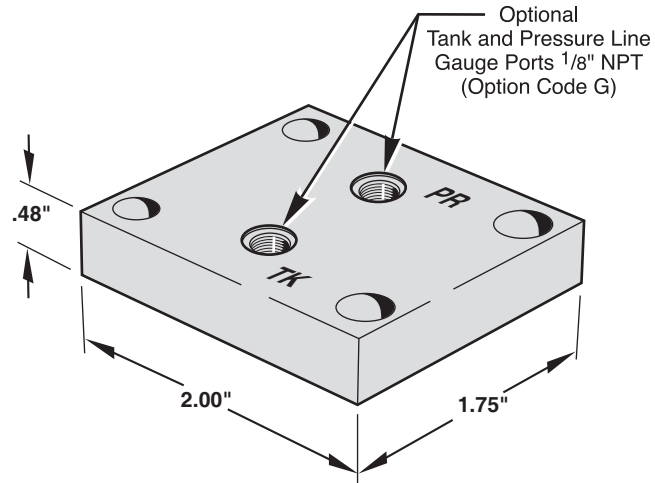
Application:

Seals and isolates all valve ports when used as substitute for directional valve. Gauge Port option provides pressure and tank line signal ports.



Note: (With Gauge Option)

Level seal pipe plugs are furnished to plug unused gauge ports.



Supplied Hardware

Mounting Bolts — (4) M5-.80 x 22mm S.H.C.S. (M - Mtg.Code)

Mounting Bolts — (4) 10-24 x 7/8 inch S.H.C.S. (E - Mtg.Code)

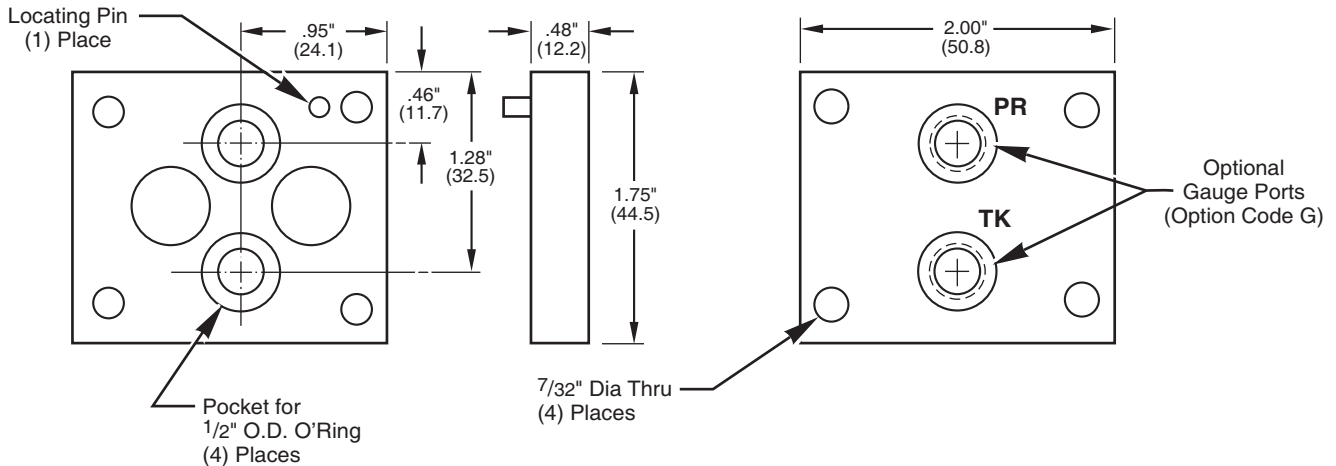
O-Rings — Viton (4) 1/2 inch OD x 3/8 inch ID x 1/16 inch CS

Pipe Plugs — (2) 1/8 inch NPT Level Seal (See note above)

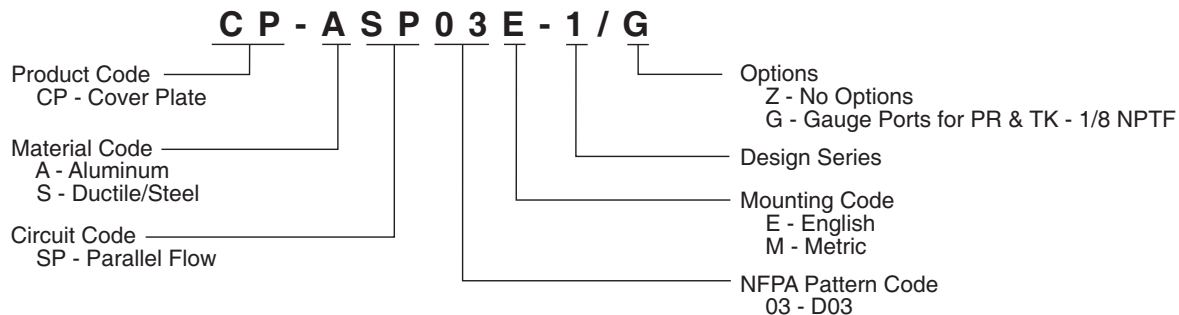
Locating Pin — (1) 1/8 inch x 3/8 inch Roll Pin

Part Numbers:

Aluminum	Ductile/Steel
CP-ASP03_-1/Z	CP-SSP03_-1/Z
CP-ASP03_-1/G	CP-SSP03_-1/G



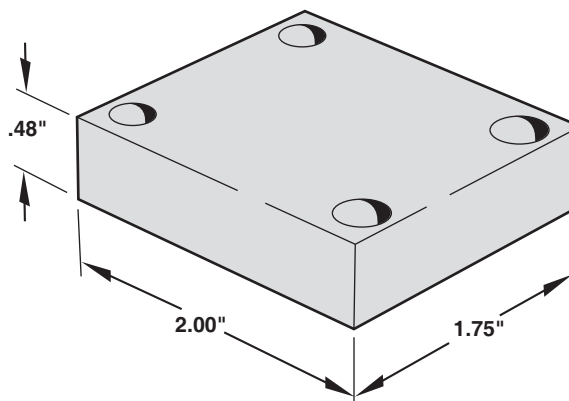
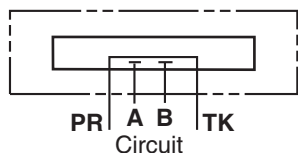
MAGNALOY D03 COVER PLATE PART NUMBER BREAKDOWN



D03 Cover Plate, Series Blank Off

Application:

Seals all valve ports and provides the pressure port common to tank port when used as a flush out plate or as a substitute for directional valve in a series circuit.



Supplied Hardware

Mounting Bolts — (4) M5-.80 x 22mm S.H.C.S. (M - Mtg.Code)

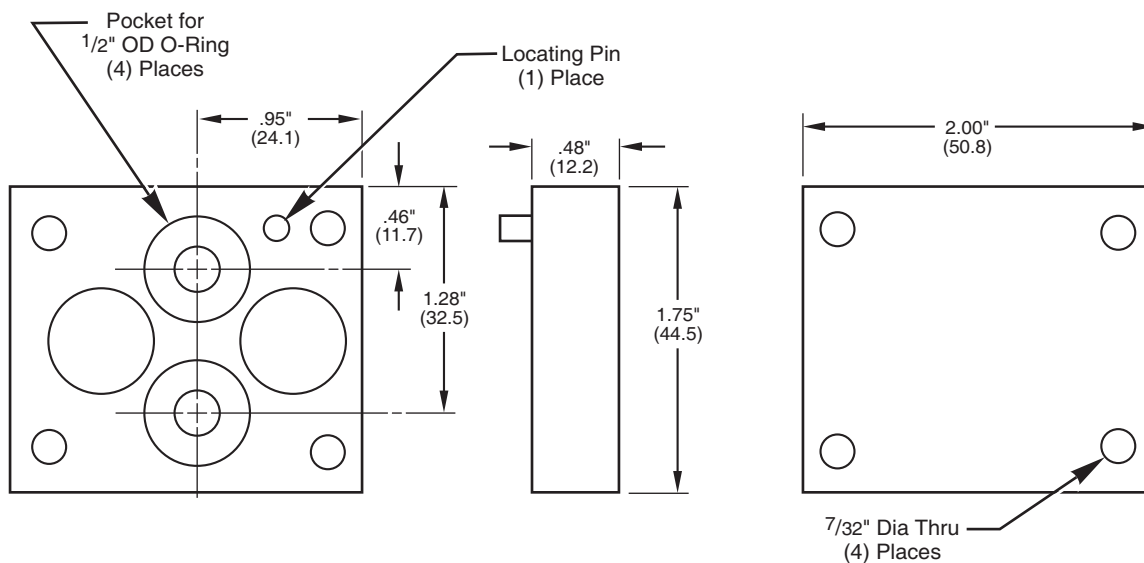
Mounting Bolts — (4) 10-24 x 7/8" S.H.C.S. (E - Mtg.Code)

O-Rings — Viton (4) 1/2" OD x 3/8" ID x 1/16" CS

Locating Pin — (1) 1/8" Dia x 3/8" Roll Pin

Part Numbers:

Aluminum	Ductile/Steel
CP-ASS03_-1/Z	CP-SSS03_-1/Z



4

MAGNALOY D03 COVER PLATE PART NUMBER BREAKDOWN

CP - ASS03E - 1 / Z

Product Code
CP - Cover Plate

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SS - Series Flow

Options
Z - No Options

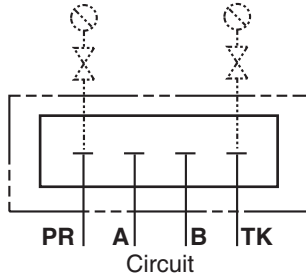
Design Series

Mounting Code
E - English
M - Metric

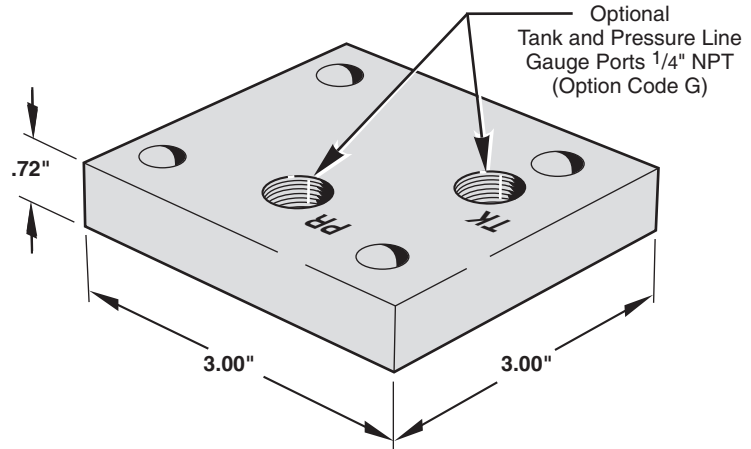
NFPA Pattern Code
03 - D03

Application:

Seals and isolates all valve ports when used as substitute for directional valve. Gauge Port option provides pressure and tank line signal ports.



Note: (With Gauge Option)
Level seal pipe plugs are furnished to plug unused gauge ports.

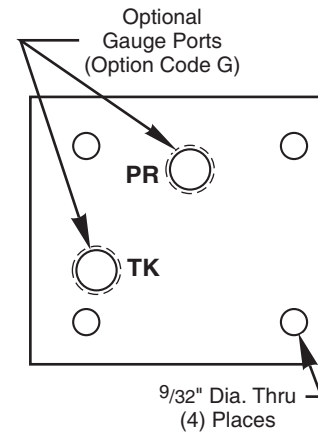
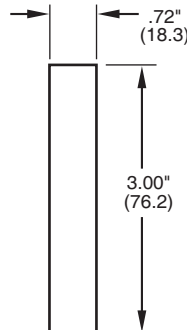
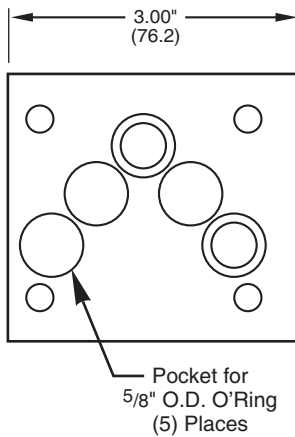


Supplied Hardware

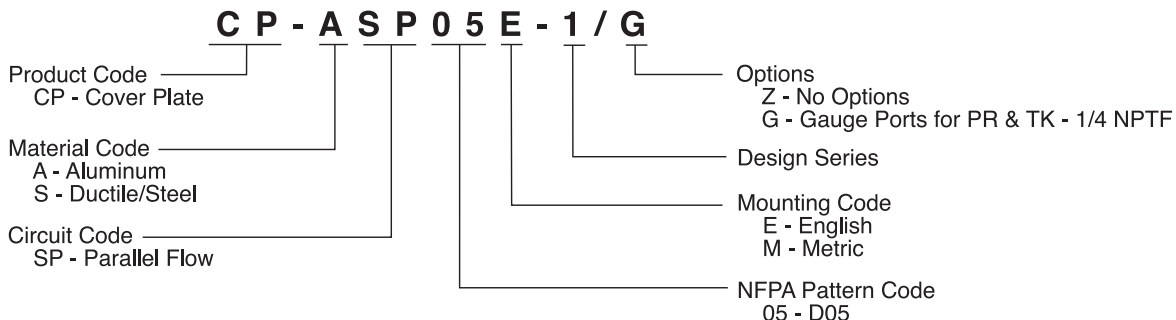
Mounting Bolts — (4) M6-1.0 x 32mm S.H.C.S. (M - Mtg.Code)
Mounting Bolts — (4) 1/4-20 x 1 1/4" S.H.C.S. (E - Mtg.Code)
O-Rings — Viton (5) 5/8" OD x 1/2" ID x 1/16" CS
Pipe Plugs — (2) 1/4" NPT Level Seal (See note above)

Part Numbers:

Aluminum	Ductile/Steel
CP-ASP05_-1/Z	CP-SSP05_-1/Z
CP-ASP05_-1/G	CP-SSP05_-1/G



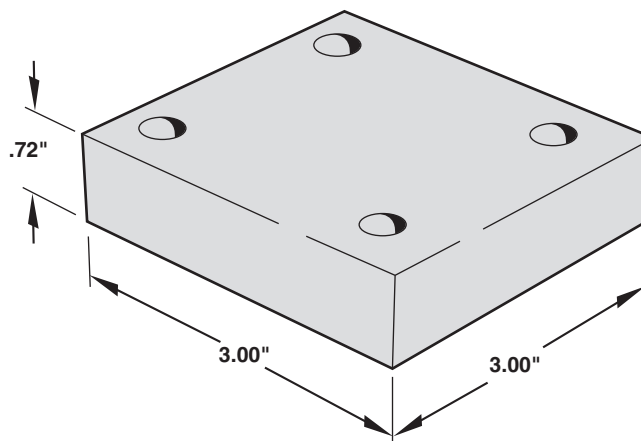
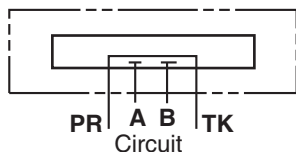
MAGNALOY D05 COVER PLATE PART NUMBER BREAKDOWN



D05 Cover Plate, Series Blank Off

Application:

Seals all valve ports and provides the pressure port common to tank port when used as a flush out plate or as a substitute for directional valve in a series circuit.



Supplied Hardware

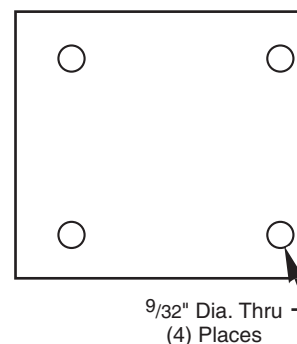
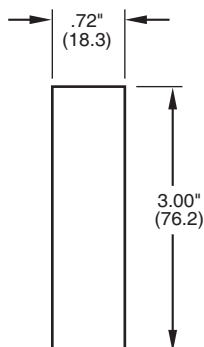
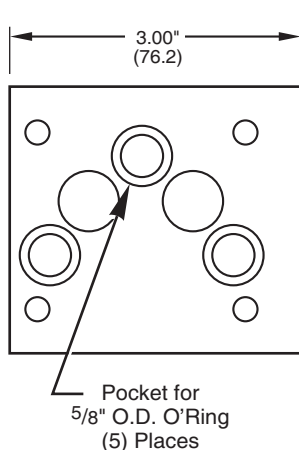
Mounting Bolts — (4) M6-1.0 x 32mm S.H.C.S. (M - Mtg.Code)

Mounting Bolts — (4) 1/4-20 x 1 1/4" S.H.C.S. (E - Mtg.Code)

O-Rings — Viton (5) 5/8" OD x 1/2" ID x 1/16" CS

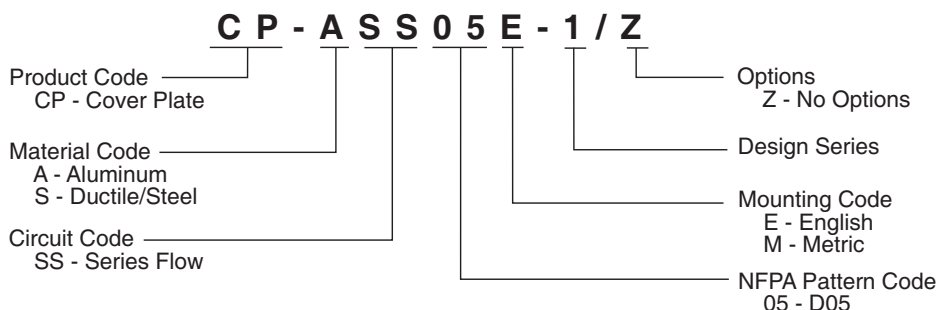
Part Numbers:

Aluminum	Ductile/Steel
CP-ASS05_-1/Z	CP-SSS05_-1/Z



4

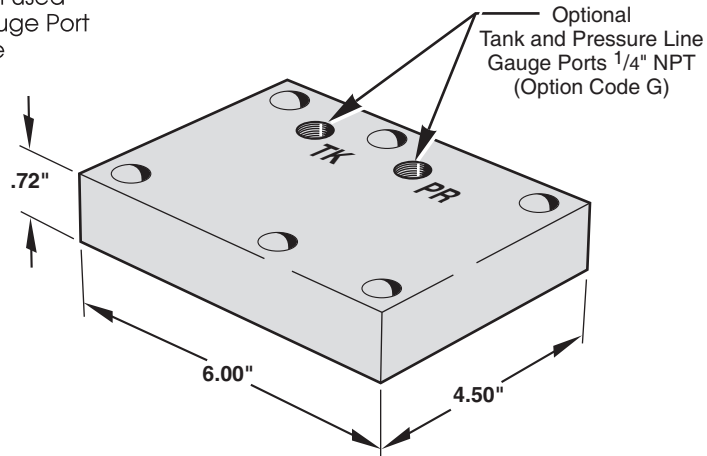
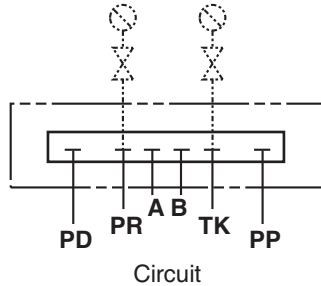
MAGNALOY D05 COVER PLATE PART NUMBER BREAKDOWN



D08 Cover Plate, Parallel Blank Off

Application:

Seals and isolates all valve ports when used as substitute for directional valve. Gauge Port option provides pressure and tank line signal ports.



Part Numbers:

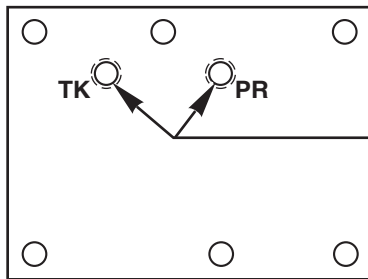
Aluminum	Ductile/Steel
CP-ASP08_-1/Z	CP-SSP08_-1/Z
CP-ASP08_-1/G	CP-SSP08_-1/G

Supplied Hardware

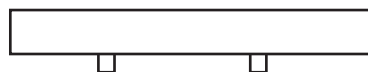
Mounting Bolts — (6) M12-1.75 x 38mm S.H.C.S. (M - Mtg.Code)
 Mounting Bolts — (6) 1/2-13 x 1 1/2" S.H.C.S. (E - Mtg.Code)
 O-Rings — Viton (3) 3/4" OD x 1/2" ID x 1/8" CS
 O-Rings — Viton (4) 1 5/16" OD x 1 1/16" ID x 1/8" CS
 Locating Pin — (2) 1/4" Dia. x 1/2" Roll Pin
 Pipe Plugs — (2) 1/4" NPT Level Seal

Note: (With Gauge Option)

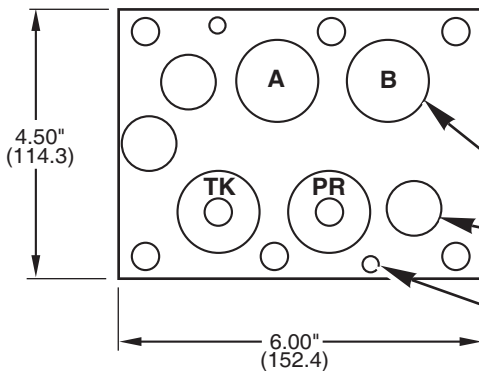
Level Seal Pipe Plugs are furnished to plug unused gauge ports.



Optional
Gauge Ports
(Option Code G)



.72"
(18.3)



Pocket for
1 5/16" O.D. O'Ring
(4) Places

Pocket for
3/4" O.D. O'Ring
(3) Places

Locating Pin
(2) Places

MAGNALOY D08 COVER PLATE PART NUMBER BREAKDOWN

C P - A S P 0 8 E - 1 / G

Product Code
CP - Cover Plate

Material Code
A - Aluminum
S - Ductile/Steel

Circuit Code
SP - Parallel Flow

Options
Z - No Options
G - Gauge Ports for PR & TK - 1/4 NPTF

Design Series

Mounting Code
E - English
M - Metric

NFPA Pattern Code
08 - D08

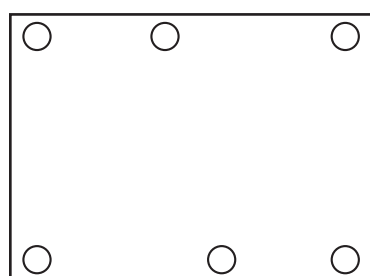
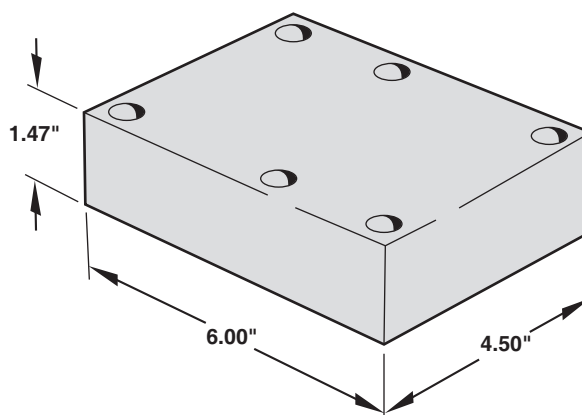
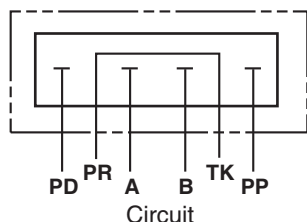
Cover Plate

D08 Cover Plate, Series Blank Off



Application:

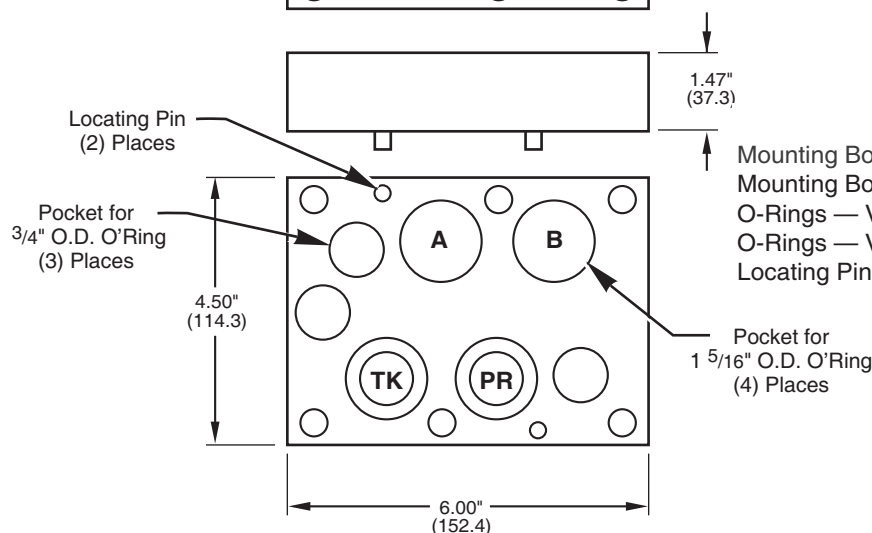
Seals all valve ports and provides the pressure port common to tank port when used as a flush out plate or as a substitute for directional valve in a series circuit.



Part Numbers:

Aluminum	Ductile/Steel
CP-ASS08_-1/Z	CP-SSS08_-1/Z

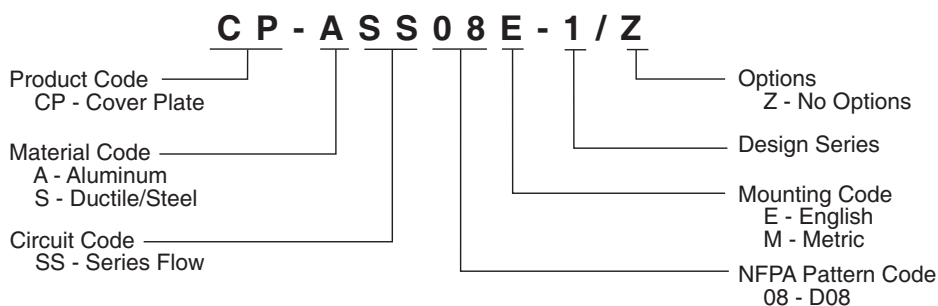
4



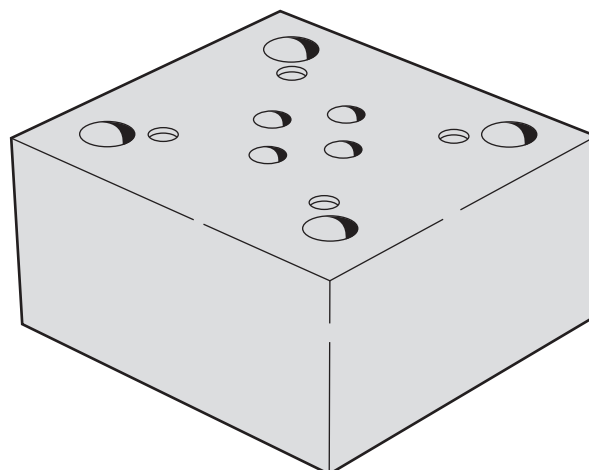
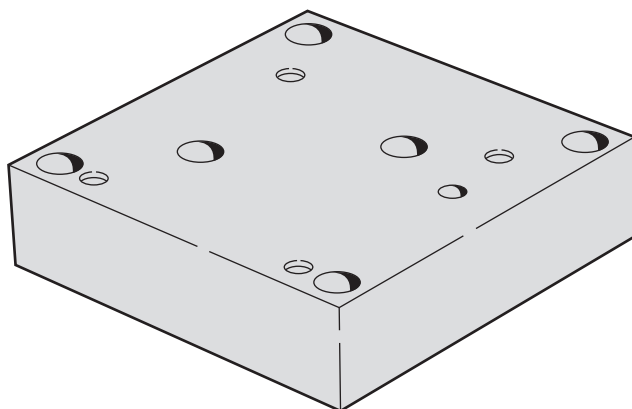
Supplied Hardware

Mounting Bolts — (6) M12-1.75 x 57mm S.H.C.S. (M - Mtg.Code)
 Mounting Bolts — (6) 1/2-13 x 2 1/4" S.H.C.S. (E - Mtg.Code)
 O-Rings — Viton (3) 3/4" OD x 1/2" ID x 1/8" CS
 O-Rings — Viton (4) 1 5/16" OD x 1 1/16" ID x 1/8" CS
 Locating Pin — (2) 1/4" Dia. x 1/2" Roll Pin

MAGNALOY D08 COVER PLATE PART NUMBER BREAKDOWN

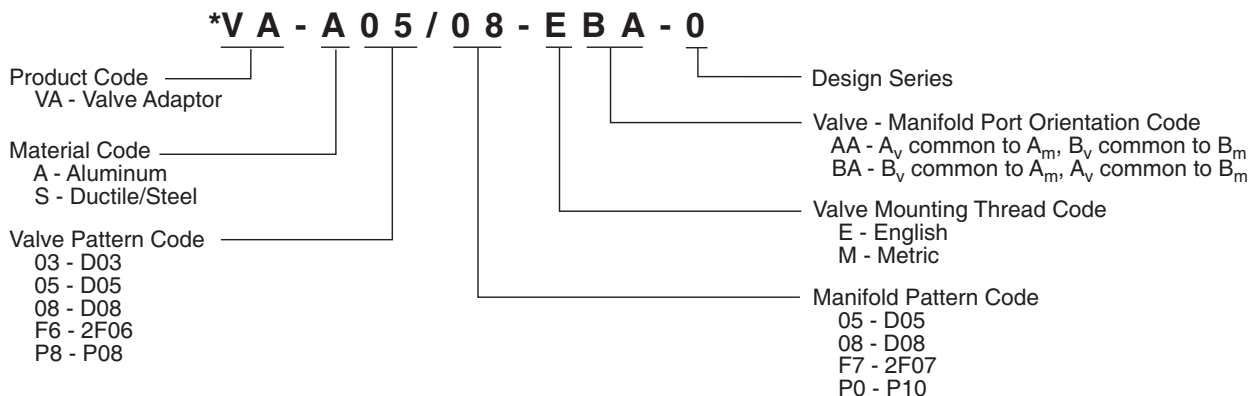


INDEX		Part Number	
Adaptors For Mounting Smaller Valve on Larger Valve Station		Aluminum	Ductile/Steel
5-1	NFPA D03 Valve on NFPA D05 Station	VA-A03/05-_BA-0	VA-S03/05-_BA-0
5-2	NFPA D05 Valve on NFPA D08 Station	VA-A05/08-_BA-0	VA-S05/08-_BA-0
5-3	NFPA 2F06 Valve on NFPA 2F07 Station	VA-AF6/F7-_AA-0	VA-SF6/F7-_AA-0
5-4	NFPA P-08 Valve on NFPA P-10 Station	VA-AP8/P0-_AA-0	VA-SP8/P0-_AA-0



5

MAGNALOY VALVE ADAPTOR PART NUMBER BREAKDOWN



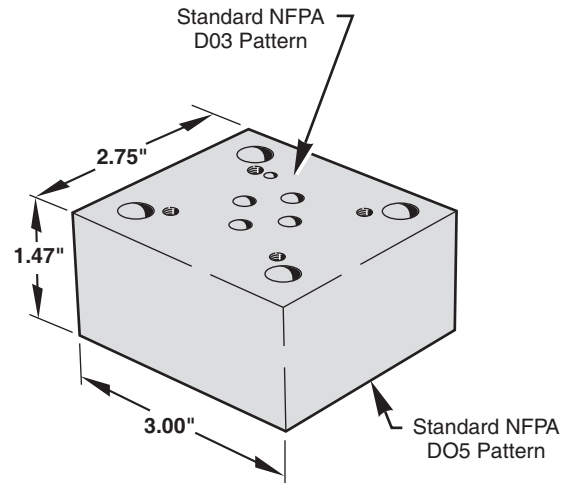
* See following Valve Adaptor Pages for specific Magnaloy standard configurations with options.

Directional Valve Pattern Valve Adaptor - D03 to D05



Application:

Adapts valve with NFPA D03 pattern to NFPA D05 pattern with either all ports common (AA) or the D03 "A" & "B" ports reversed to connect to the D05 "A" & "B" ports (BA)

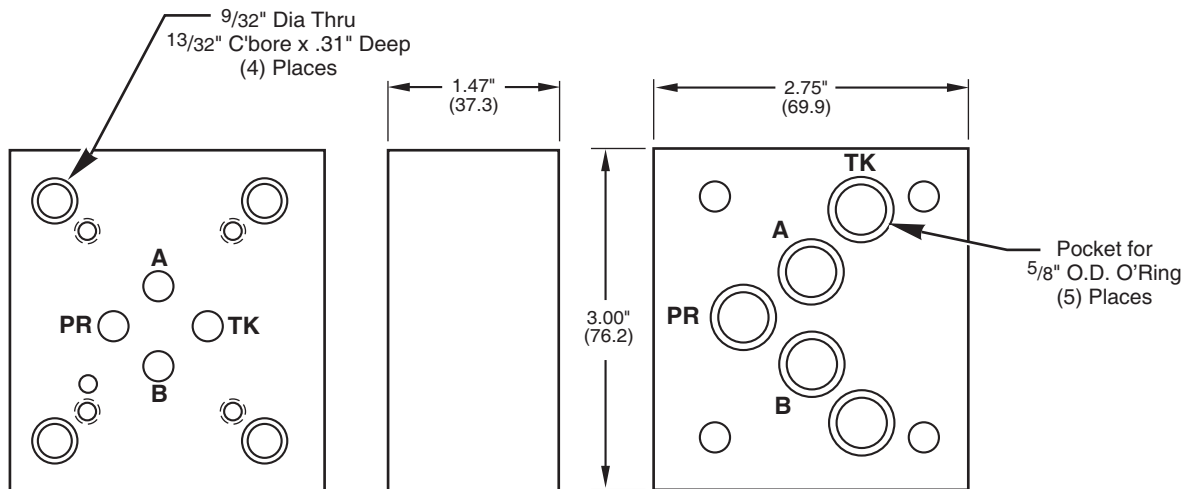


Supplied Hardware

Mounting Bolts — (4) M6-1.0 x 38mm S.H.C.S. (M - Mtg.Code)
Mounting Bolts — (4) 1/4-20 x 1 1/2" S.H.C.S. (E - Mtg.Code)
O-Rings — Viton (5) 5/8" OD x 1/2" ID x 1/16" CS

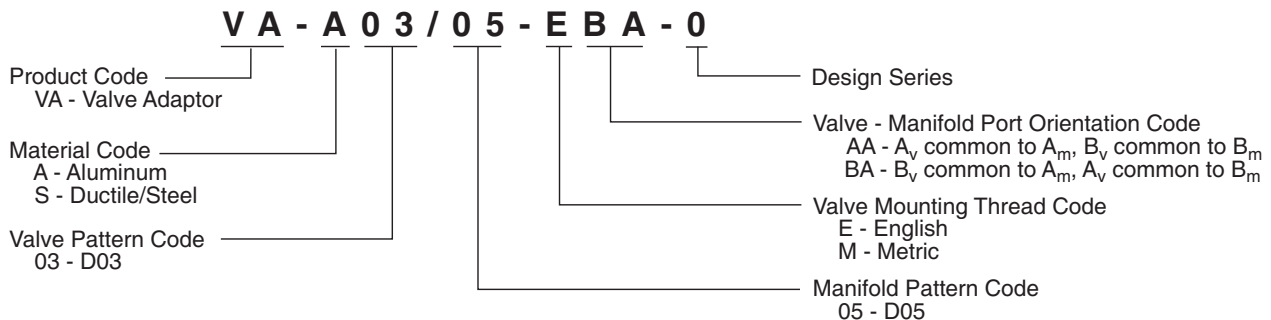
Part Numbers:

Aluminum	Ductile/Steel
VA-A03/05-BA-0	VA-S03/05-BA-0
VA-A03/05-AA-0	VA-S03/05-AA-0

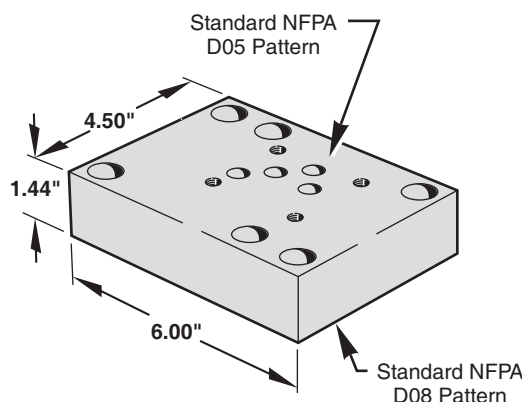


5

MAGNALOY VALVE ADAPTOR PART NUMBER BREAKDOWN



Application:
Adapts valve with NFPA D05 pattern to NFPA D08 pattern.



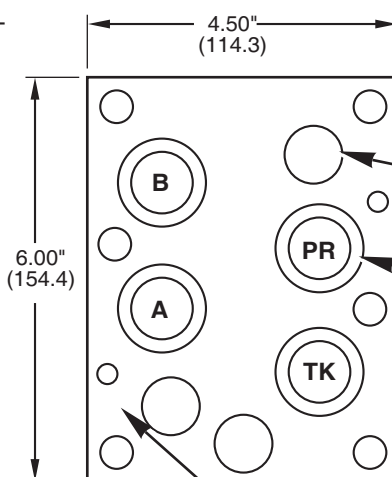
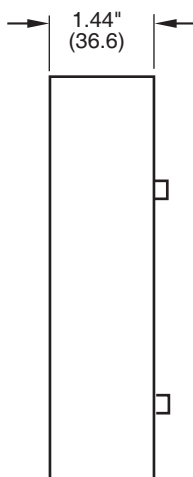
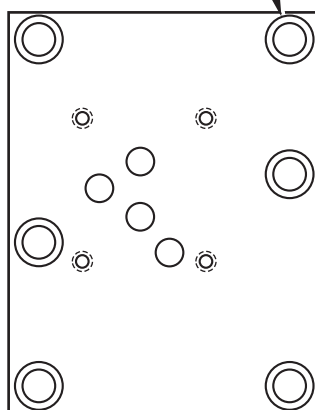
Supplied Hardware

Mounting Bolts — (6) M12-1.75 x 38mm S.H.C.S. (M - Mtg.Code)
 Mounting Bolts — (6) 1/2-13 x 1 1/2" S.H.C.S. (E - Mtg.Code)
 O-Rings — Viton (3) 3/4" OD x 1/2" ID
 O-Rings — Viton (4) 1 5/16" OD x 1 1/16" ID
 Locating Pin — (2) 1/4" x 1/2" Roll Pin

Part Numbers:

Aluminum	Ductile/Steel
VA-A05/08-AA-0	VA-S05/08-AA-0

33/64" Dia Thru
25/32" C'bore x 1.06" Deep
(6) Places



Pocket for
3/4" O.D. O'Ring
(2) Places

Pocket for
1 5/16" O.D. O'Ring
(4) Places

Locating Pin
(2) Places

MAGNALOY VALVE ADAPTOR PART NUMBER BREAKDOWN

VA - A05 / 08 - EAA - 0

Product Code
VA - Valve Adaptor

Material Code
A - Aluminum
S - Ductile/Steel

Valve Pattern Code
05 - D05

Design Series

Valve - Manifold Port Orientation Code
AA - A_v common to A_m, B_v common to B_m

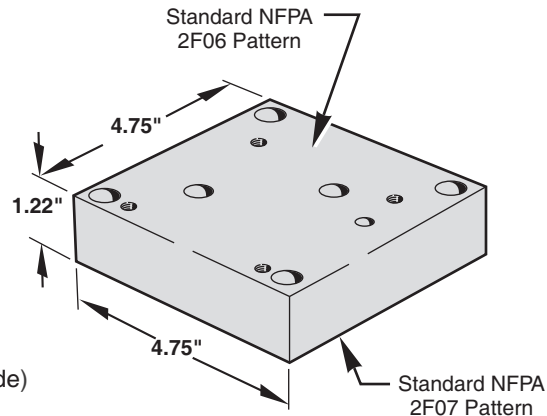
Valve Mounting Thread Code
E - English
M - Metric

Manifold Pattern Code
08 - D08

Directional Valve Pattern Valve Adaptor - 2F06 to 2F07



Application:
Adapts valve with NFPA 2F06 pattern to NFPA 2F07 pattern.

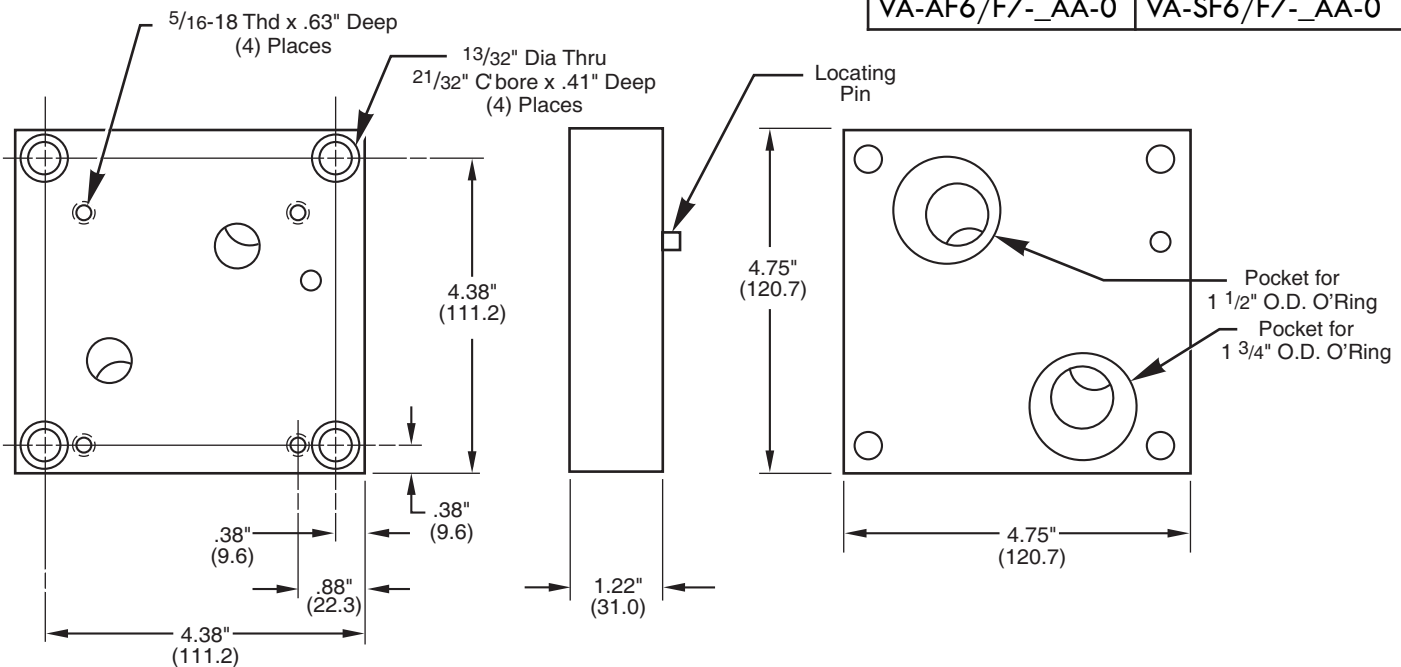


Supplied Hardware

Mounting Bolts — (4) M10-1.5 x 32mm S.H.C.S. (M - Mtg.Code)
Mounting Bolts — (4) 3/8-16 x 1 1/4" S.H.C.S. (E - Mtg.Code)
O-Rings — Viton (1) 1 1/2" OD x 1 1/4" ID x 1/8" CS
O-Rings — Viton (1) 1 3/4" OD x 1 1/2" ID x 1/8" CS
Locating Pin — (1) 1/4" Dia. x 1/2" Roll Pin

Part Numbers:

Aluminum	Ductile/Steel
VA-AF6/F7- <u>AA</u> -0	VA-SF6/F7- <u>AA</u> -0



5

MAGNALOY VALVE ADAPTOR PART NUMBER BREAKDOWN

VA - AF6 / F7 - EAA - 0

Product Code
VA - Valve Adaptor

Material Code
A - Aluminum
S - Ductile/Steel

Valve Pattern Code
F6 - 2F06

Design Series

Valve - Manifold Port Orientation Code
AA - A_v common to A_m, B_v common to B_m

Valve Mounting Thread Code
E - English
M - Metric

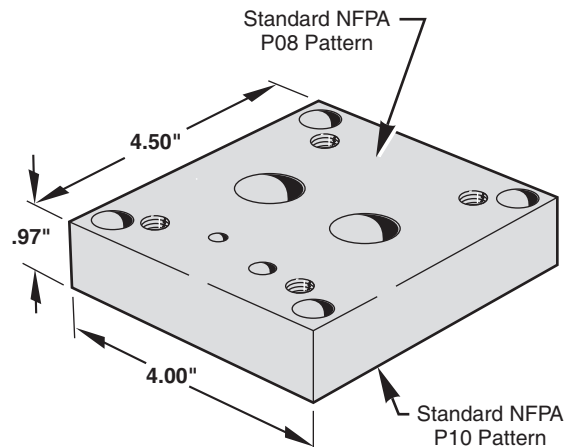
Manifold Pattern Code
F7 - 2F07

Application:

Adapts a $\frac{3}{4}$ " pressure control valve (NFPA P08) to a $1\frac{1}{4}$ " pressure control valve pattern (P10).

Note:

This adaptor is for use with internally drained valves. A passage is provided for external pilot pressure.



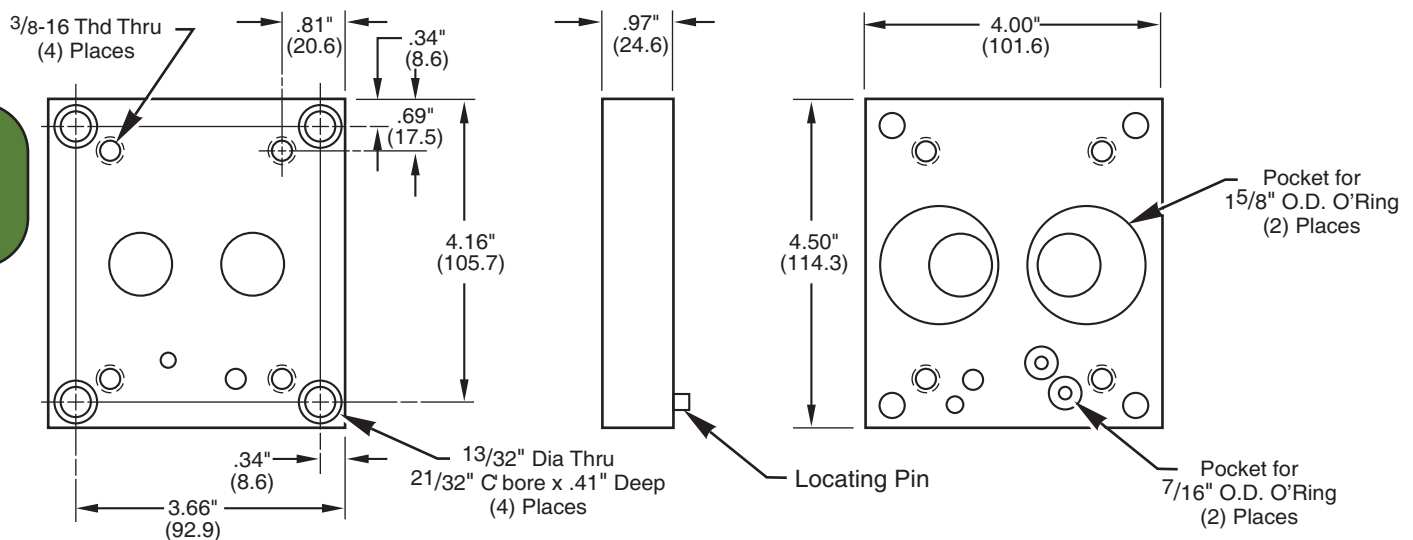
Supplied Hardware

Mounting Bolts — (4) M10-1.5 x 32mm S.H.C.S. (M - Mtg.Code)
Mounting Bolts — (4) $\frac{3}{8}$ -16 x $1\frac{1}{4}$ " S.H.C.S. (E - Mtg.Code)
O-Rings — Viton (2) $\frac{7}{16}$ " OD x $\frac{5}{16}$ " ID x $\frac{1}{16}$ " CS
O-Rings — Viton (2) $\frac{15}{8}$ " OD x $\frac{13}{8}$ " ID x $\frac{1}{8}$ " CS
Locating Pin — $\frac{1}{4}$ " Dia. x $\frac{1}{2}$ " Roll Pin

Part Numbers:

Aluminum	Ductile/Steel
VA-AP8/P0-AA-0	VA-SP8/P0-AA-0

5



MAGNALOY VALVE ADAPTOR PART NUMBER BREAKDOWN

VA - AP8 / P0 - EAA - 0

Product Code
VA - Valve Adaptor

Material Code
A - Aluminum
S - Ductile/Steel

Valve Pattern Code
P8 - P08

Design Series

Valve - Manifold Port Orientation Code
AA - A_v common to A_m, B_v common to B_m

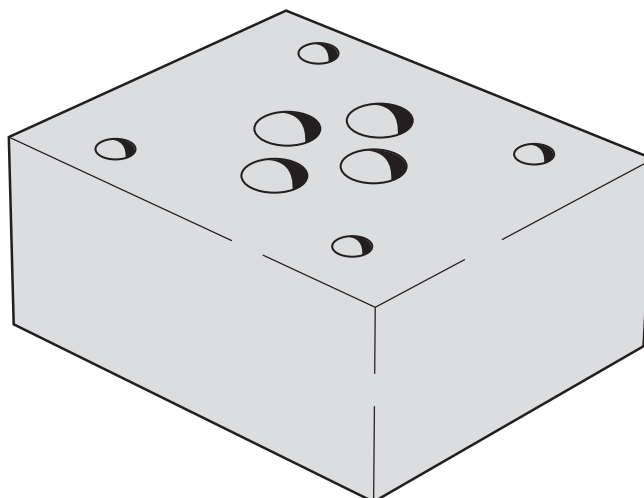
Valve Mounting Thread Code
E - English
M - Metric

Manifold Pattern Code
P0 - P10

6. Manifold Accessories

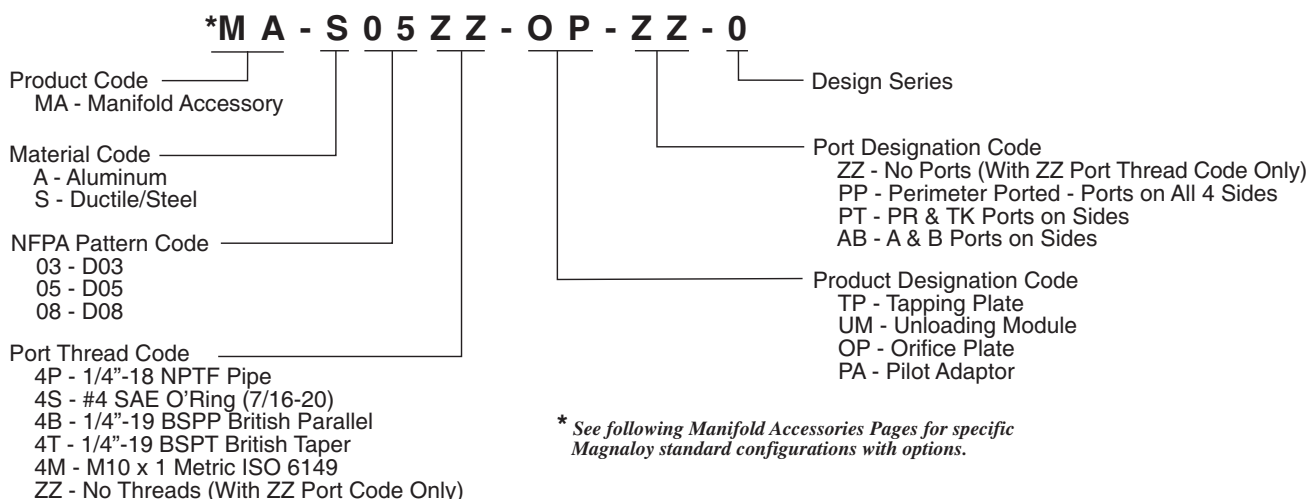


INDEX		Part Number	
Pilot Adaptors		Aluminum	Ductile/Steel
6-1	For Use with NFPA D05 Valves	MA-A05ZZ-PA-ZZ-0	MA-A05ZZ-PA-ZZ-0
Unloading (Venting) Module		Aluminum	Ductile/Steel
6-2	For Use with NFPA D05 Valves	MA-A05ZZ-UM-ZZ-0	MA-S05ZZ-UM-ZZ-0
Orifice Plates		Aluminum	Ductile/Steel
6-3	For Use with NFPA D03 Valves	MA-A03ZZ-OP-ZZ-0	MA-S03ZZ-OP-ZZ-0
6-4	For Use with NFPA D05 Valves	MA-A05ZZ-OP-ZZ-0	MA-S05ZZ-OP-ZZ-0
Tapping Plates		Aluminum	Ductile/Steel
6-5	For Use with NFPA D03 Valves	MA-A03__-TP-__-1	MA-S03__-TP-__-1
6-6	For Use with NFPA D05 Valves	MA-A05__-TP-__-1	MA-S05__-TP-__-1
6-7	For Use with NFPA D08 Valves	MA-A08__-TP-__-1	MA-S08__-TP-__-1



6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN



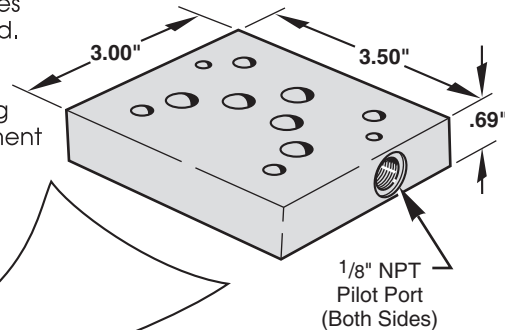
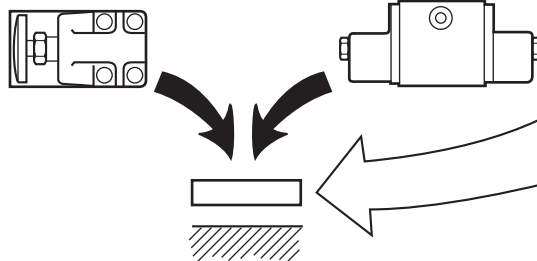
Pilot Adaptor: Module Drain or Air Pilot Supply

Application:

Allows mounting a Vickers Model DG18 4-01XX-50 air piloted directional control valve on standard subplates and manifolds. 1/8" NPT pilot connections are provided.

or

Allows for plumbing of the external drain line of a Vickers Model DGX-01-XX sandwich pressure reducing valve module, thus permitting removal and replacement of the DGX-01-XX without disturbing that connection.

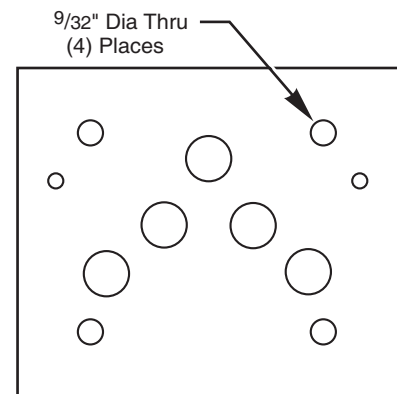
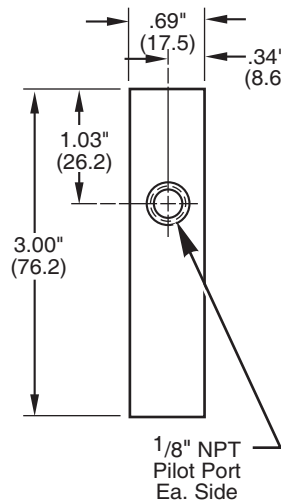
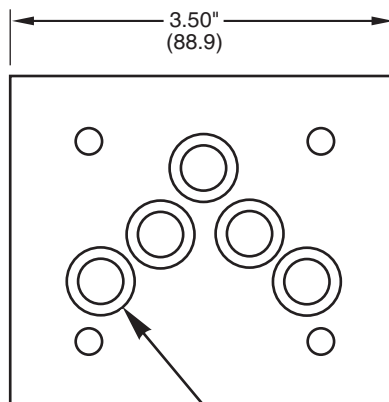


Part Numbers:

Aluminum	Ductile/Steel
MA-A05ZZ-PA-ZZ-0	MA-S05ZZ-PA-ZZ-0

Supplied

O-Rings — Viton (5) 5/8" OD x 1/2" ID x 1/16" CS



Pocket for
5/8" O.D. O'Ring
(5) Places

1/8" NPT
Pilot Port
Ea. Side

9/32" Dia Thru
(4) Places

6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN

MA - A05ZZ - PA - ZZ - 0

Product Code
MA - Manifold Accessory

Material Code
A - Aluminum
S - Ductile/Steel

Valve Pattern Code
05 - D05

Port Thread Code
ZZ - No Threads

Design Series

Port Designation Code
ZZ - No Ports

Product Designation Code
PA - Pilot Adaptor

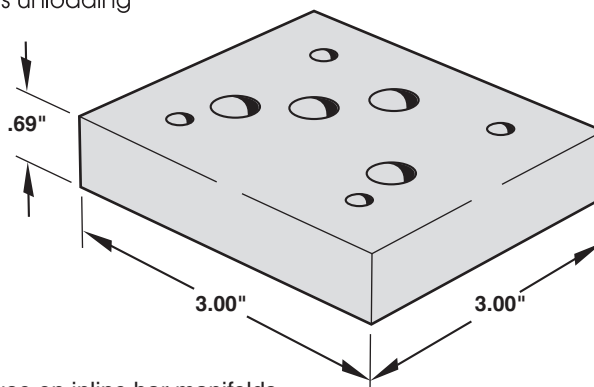
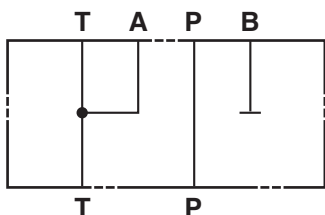
Manifold Accessories

D05 Unloading Module



Application:

This module allows unloading or venting pump pressure during idle machine cycles. It is mounted between a single solenoid, spring offset directional control valve (NFPA D05 size) and the manifold. When the valve is in the P to A position, this module directs the pump flow back to tank, thus unloading the pump. When the directional control valve is in the P to B position, the B port is blocked and pump flow is directed to other system control valves.



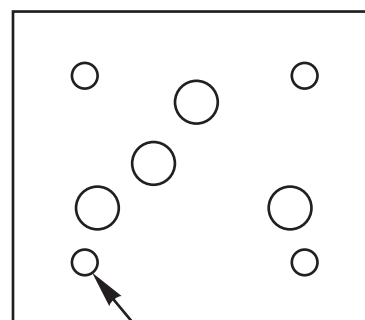
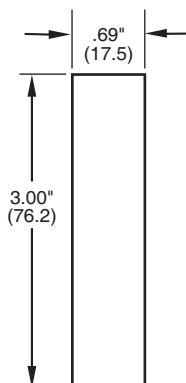
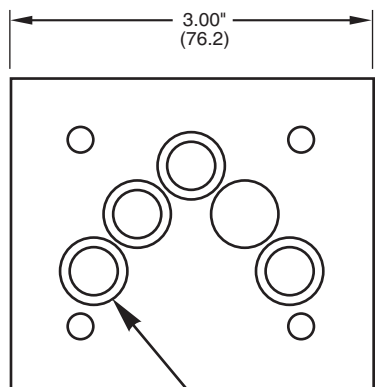
Ideal for use on inline bar manifolds with cartridge relief valve.

Supplied Hardware

O-Rings — Viton (5) $\frac{5}{8}$ " OD x $\frac{1}{2}$ " ID x $\frac{1}{16}$ " CS

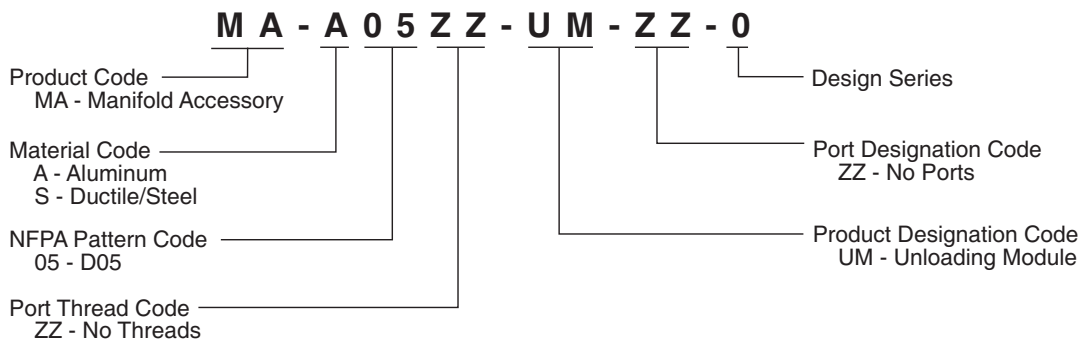
Part Numbers:

Aluminum	Ductile/Steel
MA-A05ZZ-UM-ZZ-0	MA-S05ZZ-UM-ZZ-0



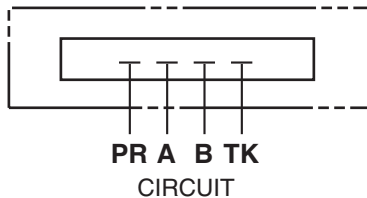
6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN



Applications:

- To mount between a D03 4-way valve and a mounting surface.
- To provide for customer drilling of holes for orifices in any of the 4 port connections. Any port may be drilled to a maximum of .25" dia or may be left blocked.

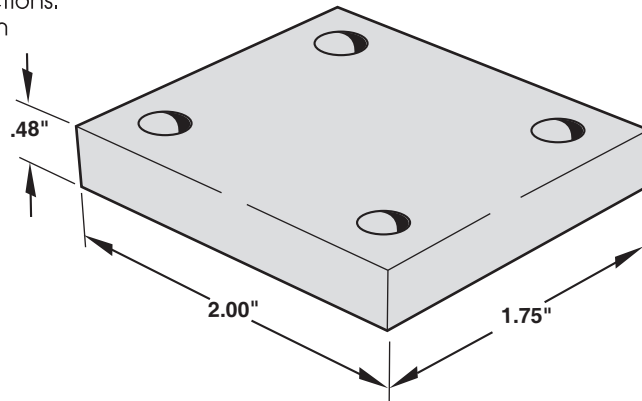


Supplied Hardware

O-Rings — Viton (5) 1/2" OD x 3/8" ID x 1/16" CS
Locating Pin — (1) 1/8" x 3/8" Roll Pin

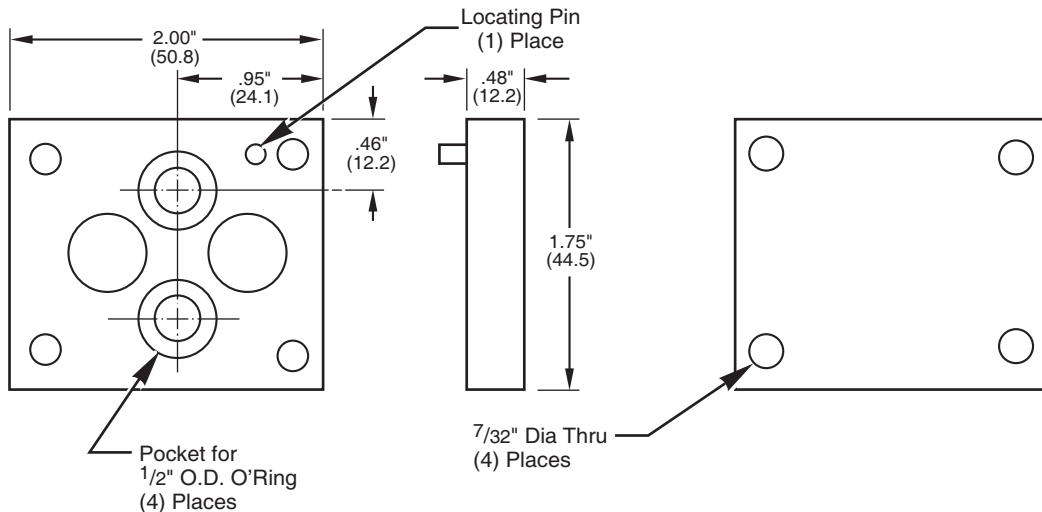
Note:

Maximum allowable drill is .25" dia.



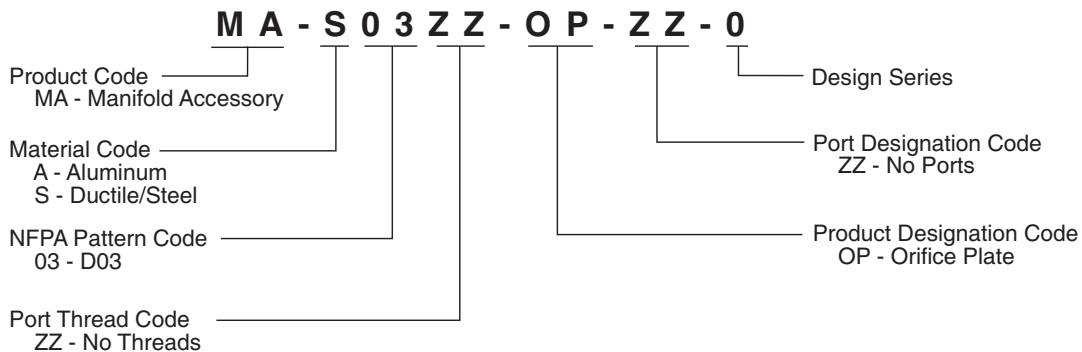
Part Numbers:

Aluminum	Ductile/Steel
MA-A03ZZ-OP-ZZ-0	MA-S03ZZ-OP-ZZ-0



6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN

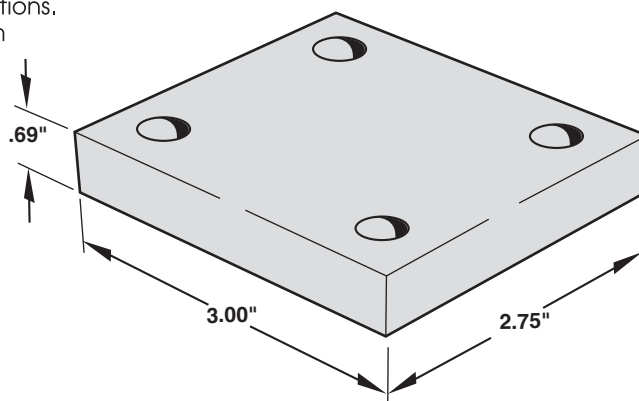
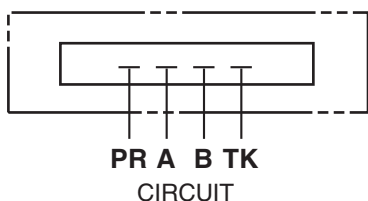


Manifold Accessories D05 Orifice Plate



Applications:

- To mount between a D05 4-way valve and a mounting surface.
- To provide for customer drilling of holes for orifices in any of the 5 port connections. Any port may be drilled to a maximum of .438" dia or may be left blocked.



Supplied Hardware

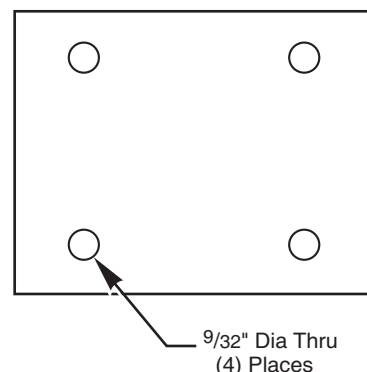
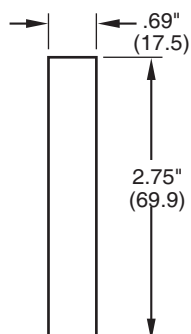
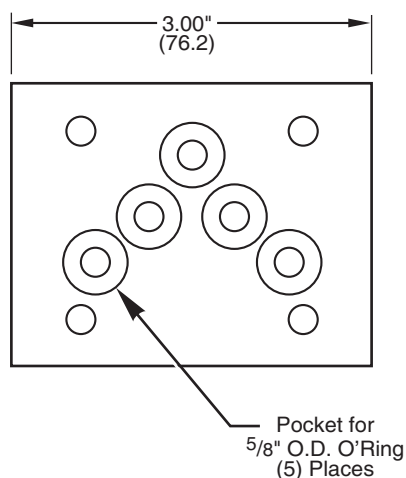
O-Rings — Viton (5) 5/8" OD x 1/2" ID x 1/16" CS

Note:

Maximum allowable drill is .438" dia.

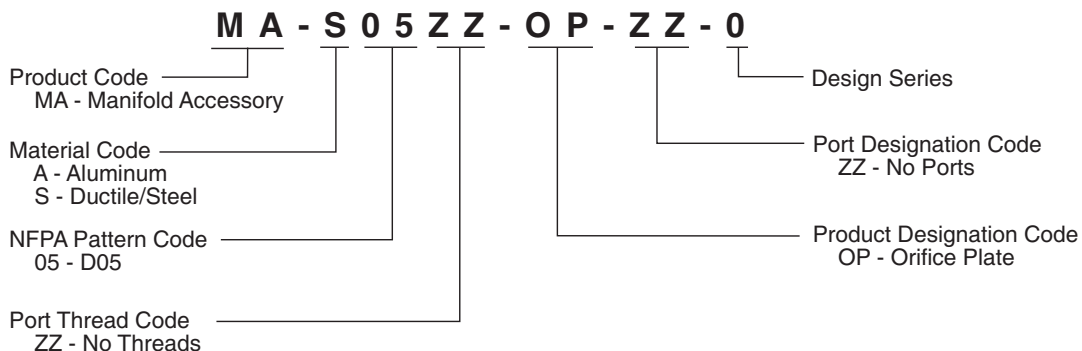
Part Numbers:

Aluminum	Ductile/Steel
MA-A05ZZ-OP-ZZ-0	MA-S05ZZ-OP-ZZ-0



6

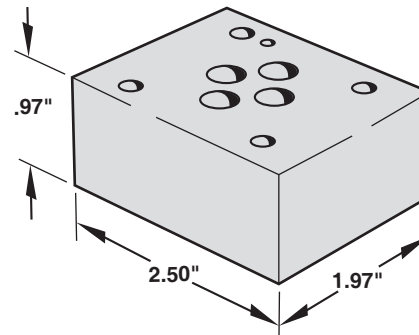
MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN



Application:

Module with NFPA D03 pattern for use between the valve and a mounting surface, providing additional ports where needed for external pilot connections, gauges, etc. Eliminates added plumbing.

Supplied from stock with drilled and tapped ports in ordered locations.

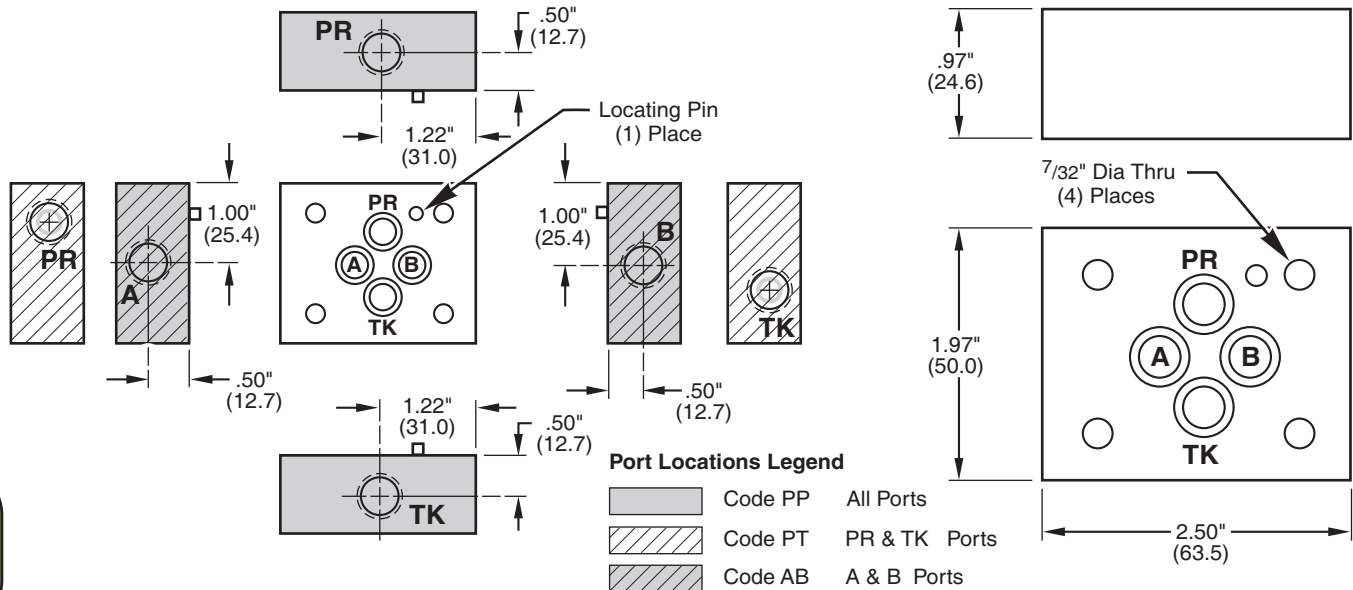


Supplied Hardware

O-Rings — Viton (4) 1/2" OD x 3/8" ID x 1/16" CS
Locating Pin — (1) 1/8" x 3/8" Roll Pin

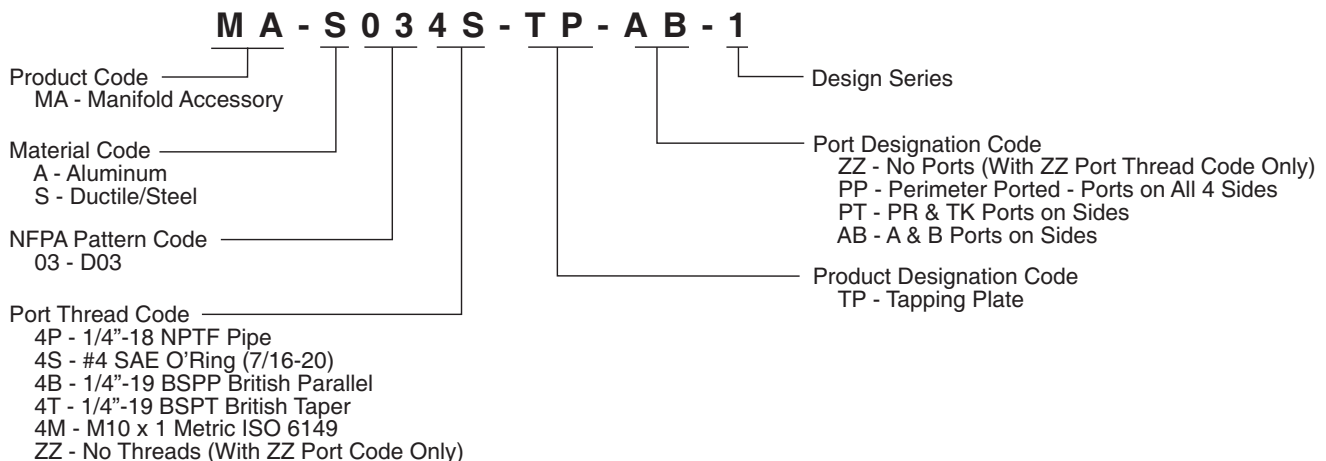
Part Numbers:

Aluminum	Ductile/Steel
MA-A03__-TP-__-1	MA-S03__-TP-__-1



6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN



Manifold Accessories

D05 Tapping Plate

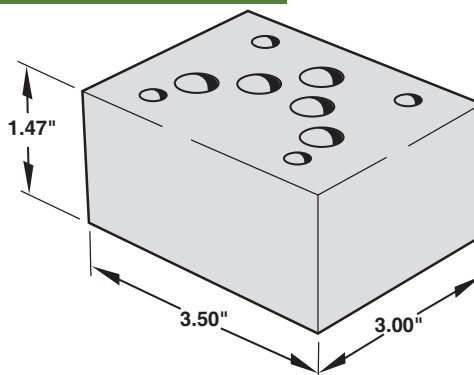


Application:

Module with NFPA D05 pattern for use between the valve and a mounting surface, providing additional ports where needed for external pilot connections, gauges, etc. Eliminates added plumbing.

Supplied Hardware

O-Rings — Viton (5) 5/8" OD x 1/2" ID x 1/16" CS



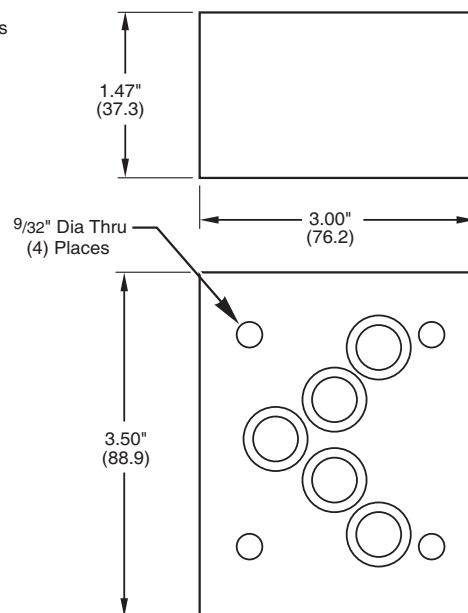
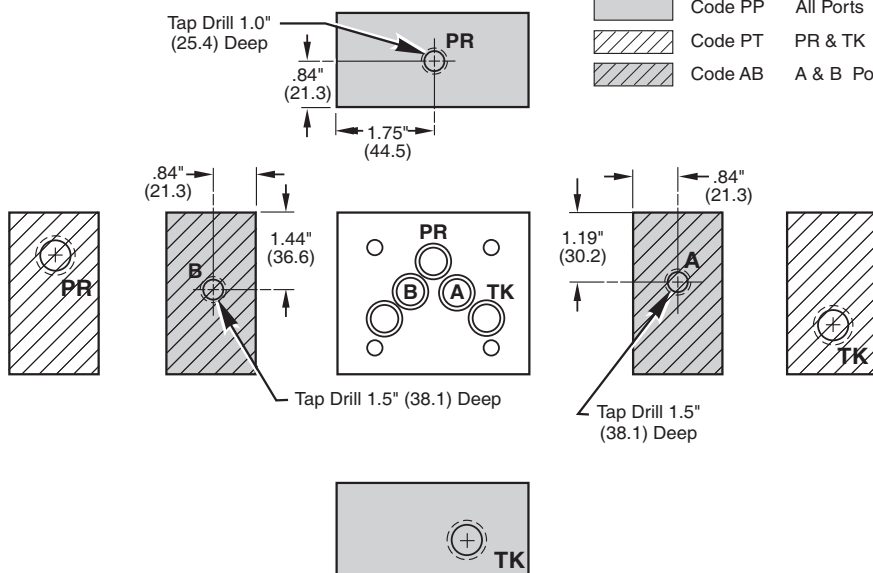
Part Numbers:

Aluminum	Ductile/Steel
MA-A05__-TP-__-1	MA-S05__-TP-__-1

SUGGESTED PORT LOCATIONS

Port Locations Legend

	Code PP	All Ports
	Code PT	PR & TK Ports
	Code AB	A & B Ports



6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN

MA - A054P - TP - PT - 1

Product Code
MA - Manifold Accessory

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
05 - D05

Port Thread Code
4P - 1/4"-18 NPTF Pipe
4S - #4 SAE O'Ring (7/16-20)
4B - 1/4"-19 BSPP British Parallel
4T - 1/4"-19 BSPT British Taper
4M - M10 x 1 Metric ISO 6149
ZZ - No Threads (With ZZ Port Code Only)

Design Series

Port Designation Code
ZZ - No Ports (With ZZ Port Thread Code Only)
PP - Perimeter Ported - Ports on All 4 Sides
PT - PR & TK Ports on Sides
AB - A & B Ports on Sides

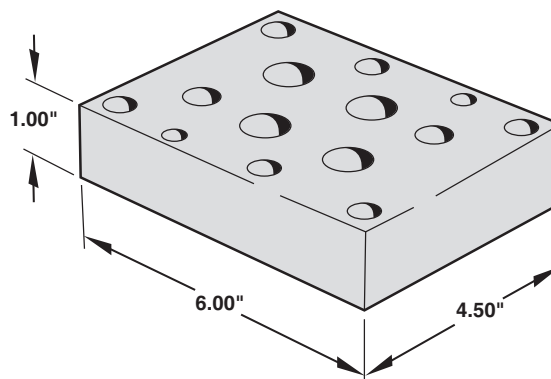
Product Designation Code
TP - Tapping Plate

Application:

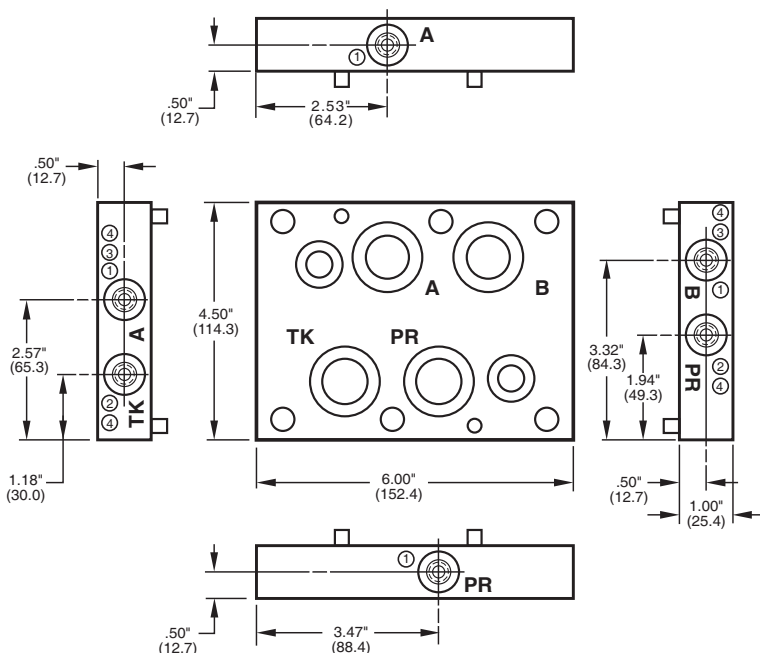
Module with NFPA D08 pattern for use between the valve and a mounting surface, providing additional ports where needed for external pilot connections, gauges, etc. Eliminates added plumbing.

Supplied Hardware

Loc. Pins (2) 1/4" Dia. x 1/2" LG
O-Rings — Viton (2) 3/4" OD x 1/2" ID
O-Rings — Viton (4) 1.312" OD x 1.06" ID

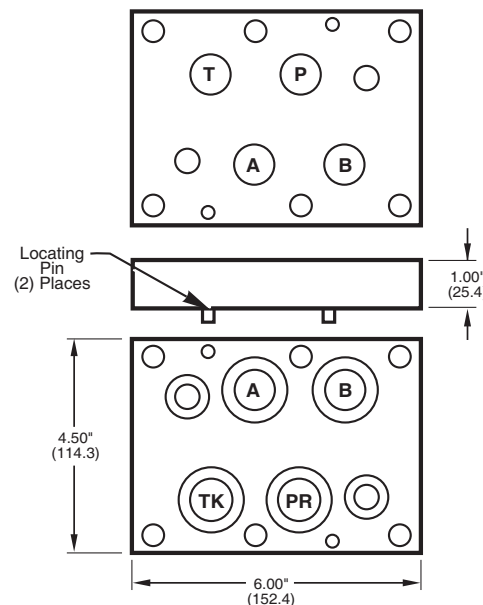


CODED PORT LOCATIONS



Part Numbers:

Aluminum	Ductile/Steel
MA-A03__-TP-__-1	MA-S03__-TP-__-1



6

MAGNALOY MANIFOLD ACCESSORY PART NUMBER BREAKDOWN

MA - A 0 8 4 P - T P - P T - 1

Product Code
MA - Manifold Accessory

Material Code
A - Aluminum
S - Ductile/Steel

NFPA Pattern Code
08 - D08

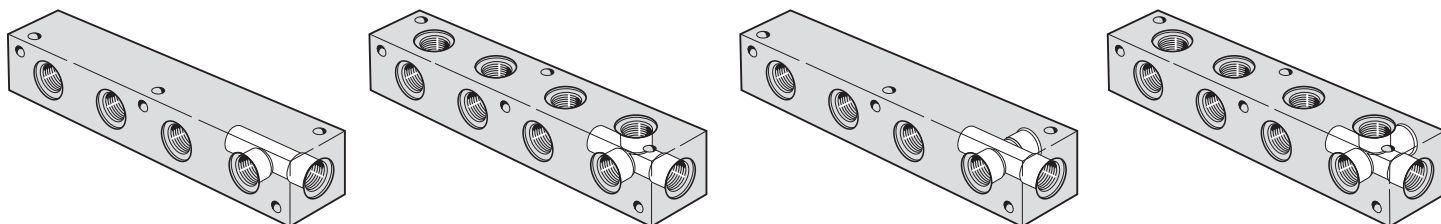
Port Thread Code
4P - 1/4"-18 NPTF Pipe
4S - #4 SAE O'Ring (7/16-20)
4B - 1/4"-19 BSPP British Parallel
4T - 1/4"-19 BSPT British Taper
4M - M10 x 1 Metric ISO 6149
ZZ - No Threads (With ZZ Port Code Only)

Design Series

Port Designation Code
ZZ - No Ports (With ZZ Thread Code Only)
① PP - Perimeter Ported - Ports on All 4 Sides
② PT - PR & TK Ports on Short Sides
③ AB - A & B Ports on Short Sides
④ PS - All Ports - Short Sides

Product Designation Code
TP - Tapping Plate

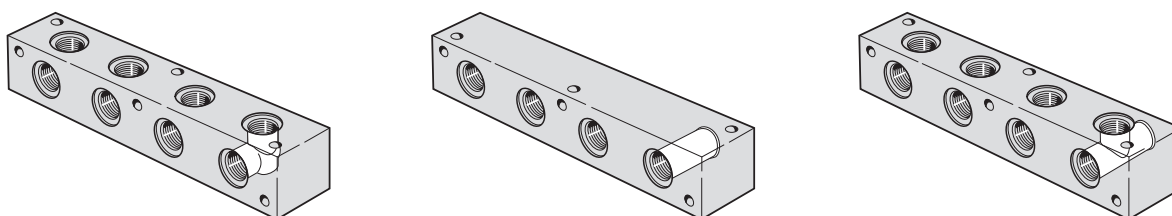
Header and Junction Manifold Description



Header Manifolds: Magnaloy's Header Manifolds are designed with the outlet ports connected to a common inlet port thru the center of the manifold. Header Manifolds are ordered by specifying the End Port (Inlet) Thread size and Side Port (Outlet) Thread size and the Port angle which specifies the orientation of the outlet ports. Metric End and Side Port Threads are also available (consult Factory).

HEADER MANIFOLD HARDWARE

PART NO.	MOUNTING BOLTS
H - 02P/ - - -1/Z	(2) or (3) 1/4-20 UNC x 2.00 Long S.H.C.S.
H - 04 / - - -1/Z	(2) or (3) 1/4-20 UNC x 2.00 Long S.H.C.S.
H - 06 / - - -1/Z	(2) or (3) 1/4-20 UNC x 2.25 Long S.H.C.S.
H - 08 / - - -1/Z	(2) or (3) 1/4-20 UNC x 2.25 Long S.H.C.S.
H - 12 / - - -1/Z	(2) or (3) 1/4-20 UNC x 2.50 Long S.H.C.S.
H - 16 / - - -1/Z	(2) or (3) 5/16-18 UNC x 3.00 Long S.H.C.S.
H - 20 / - - -1/Z	(2) or (3) 3/8-16 UNC x 3.50 Long S.H.C.S.
H - 24 / - - -1/Z	(2) or (3) 1/2-13 UNC x 4.50 Long S.H.C.S.
H - 32 / - - -1/Z	(2) or (3) 1/2-13 UNC x 5.00 Long S.H.C.S.



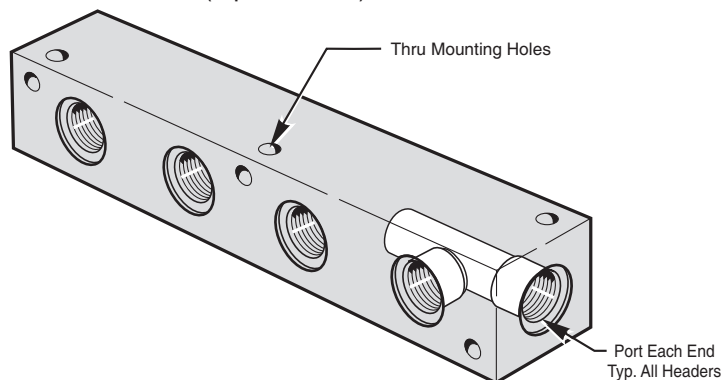
Junction Manifolds: Magnaloy's Junction Manifolds are designed with varying size Inlet (End) and Outlet (Side) ports to accommodate altering piping sizes and/or directions. Junction Manifolds are ordered by specifying the Inlet Port Thread size and the Outlet Port Thread size and the Port Angle which specifies the orientation of the outlet ports. Metric Inlet and Outlet Port Threads are also available (consult Factory).

JUNCTION MANIFOLD HARDWARE

PART NO.	MOUNTING BOLTS
J - 000/01P- -1/Z	(2) or (3) 1/4-20 UNC x 2.00 Long S.H.C.S.
J - 000/02P- -1/Z	(2) or (3) 1/4-20 UNC x 2.00 Long S.H.C.S.
J - 000/04 - -1/Z	(2) or (3) 1/4-20 UNC x 2.25 Long S.H.C.S.
J - 000/06 - -1/Z	(2) or (3) 1/4-20 UNC x 2.25 Long S.H.C.S.
J - 000/08 - -1/Z	(2) or (3) 1/4-20 UNC x 2.50 Long S.H.C.S.
J - 000/12 - -1/Z	(2) or (3) 5/16-18 UNC x 3.00 Long S.H.C.S.
J - 000/16 - -1/Z	(2) or (3) 3/8-16 UNC x 3.50 Long S.H.C.S.
J - 000/20 - -1/Z	(2) or (3) 1/2-13 UNC x 4.50 Long S.H.C.S.
J - 000/24 - -1/Z	(2) or (3) 1/2-13 UNC x 5.00 Long S.H.C.S.

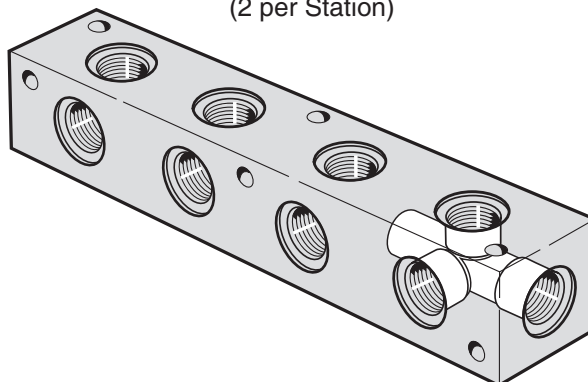
HEADER MANIFOLD - 0°

Connections Out One Side Only
(1 per Station)



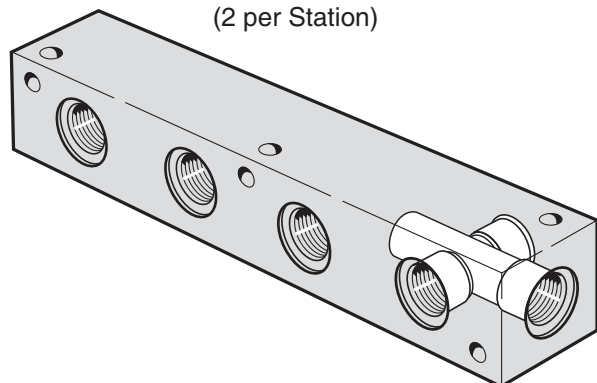
HEADER MANIFOLD - 90°

Side Connections at 90°
(2 per Station)



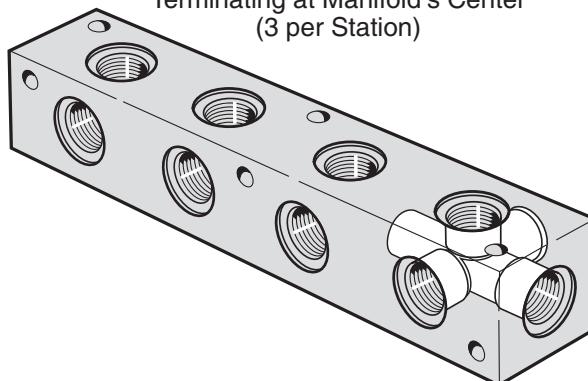
HEADER MANIFOLD - 180°

Side Connection Thru
(2 per Station)



HEADER MANIFOLD - 270°

3 Side Connections
Terminating at Manifold's Center
(3 per Station)



MAGNALOY HEADER MANIFOLD - PART NUMBER BREAKDOWN

7

H A - 0 0 0 8 S / 0 8 S - 0 4 - 1 / Z

Product Code
H - Header Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Port Angles
00 - 0°
09 - 90°
18 - 180°
27 - 270°

End Ports * (Inlet)
##S - SAE
##P - Pipe

* See size charts for standard sizes and porting. See pg 14 for Mtg. Hardware

Options
Z - No Options

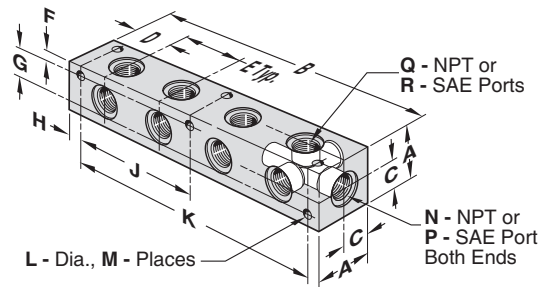
Design Series

Number of Stations

Side Ports * (Outlet)
##S - SAE
##P - NPTF

01P - 1/16 NPT	04S - #4 SAE
02P - 1/8 NPT	06S - #6 SAE
04P - 1/4 NPT	08S - #8 SAE
06P - 3/8NPT	12S - #12 SAE
08P - 1/2 NPT	16S - #16 SAE
12P - 3/4 NPT	20S - #20 SAE
16P - 1" NPT	24S - #24 SAE
20P - 1 1/4 NPT	32S - #32 SAE
24P - 1 1/2 NPT	
32P - 2" NPT	

Connection Manifold Header Bar Manifolds



01P SIDE PORT

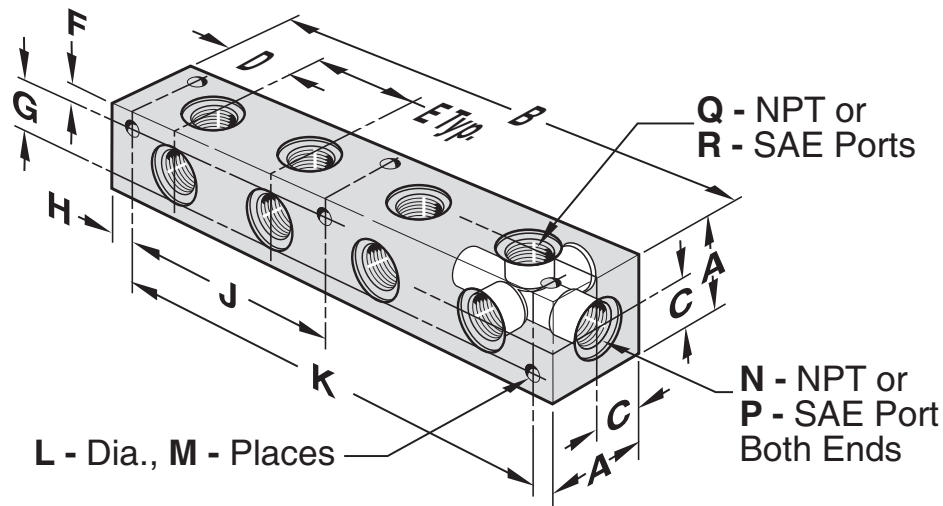
PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 02P/01P-02-1/Z	1.500	3.250	0.750	1.000	1.250	0.250	1.000	0.313	--	2.625	0.281	4	1/8	--	1/16	--
H - _ 02P/01P-03-1/Z		4.500							--	3.875		4				
H - _ 02P/01P-04-1/Z		5.750							--	5.125		4				
H - _ 02P/01P-05-1/Z		7.000							--	6.375		4				
H - _ 02P/01P-06-1/Z		8.250							3.813	7.625		6				
H - _ 02P/01P-07-1/Z		9.500							3.813	8.875		6				
H - _ 02P/01P-08-1/Z		10.750							5.063	10.125		6				
H - _ 02P/01P-09-1/Z		12.000							5.063	11.375		6				
H - _ 02P/01P-10-1/Z		13.250							6.313	12.625		6				

02P SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 02P/02P-02-1/Z	1.500	3.625	0.750	1.125	1.375	0.250	1.000	0.313	--	3.000	0.281	4	1/8	--	1/8	--
H - _ 02P/02P-03-1/Z		5.000							--	4.375		4				
H - _ 02P/02P-04-1/Z		6.375							--	5.750		4				
H - _ 02P/02P-05-1/Z		7.750							--	7.125		4				
H - _ 02P/02P-06-1/Z		9.125							4.250	8.500		6				
H - _ 02P/02P-07-1/Z		10.500							4.250	9.875		6				
H - _ 02P/02P-08-1/Z		11.875							5.625	11.250		6				
H - _ 02P/02P-09-1/Z		13.250							5.625	12.625		6				
H - _ 02P/02P-10-1/Z		14.625							7.000	14.000		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 04 /02P-02-1/Z	1.500	3.625	0.750	1.125	1.375	0.250	1.000	0.313	--	3.000	0.281	4	1/4	-4	1/8	--
H - _ 04 /02P-03-1/Z		5.000							--	4.375		4				
H - _ 04 /02P-04-1/Z		6.375							--	5.750		4				
H - _ 04 /02P-05-1/Z		7.750							--	7.125		4				
H - _ 04 /02P-06-1/Z		9.125							4.250	8.500		6				
H - _ 04 /02P-07-1/Z		10.500							4.250	9.875		6				
H - _ 04 /02P-08-1/Z		11.875							5.625	11.250		6				
H - _ 04 /02P-09-1/Z		13.250							5.625	12.625		6				
H - _ 04 /02P-10-1/Z		14.625							7.000	14.000		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 06 /02P-02-1/Z	1.750	3.625	0.875	1.125	1.375	0.250	1.250	0.313	--	3.000	0.281	4	3/8	-6	1/8	--
H - _ 06 /02P-03-1/Z		5.000							--	4.375		4				
H - _ 06 /02P-04-1/Z		6.375							--	5.750		4				
H - _ 06 /02P-05-1/Z		7.750							--	7.125		4				
H - _ 06 /02P-06-1/Z		9.125							4.250	8.500		6				
H - _ 06 /02P-07-1/Z		10.500							4.250	9.875		6				
H - _ 06 /02P-08-1/Z		11.875							5.625	11.250		6				
H - _ 06 /02P-09-1/Z		13.250							5.625	12.625		6				
H - _ 06 /02P-10-1/Z		14.625							7.000	14.000		6				

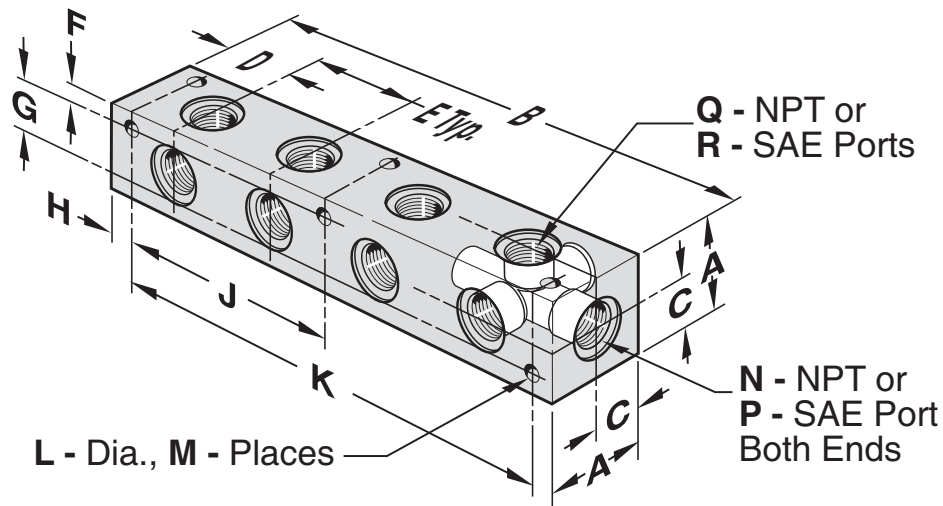


04 SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 04 /04 -02-1/Z	1.500	3.875	0.750	1.063	1.750	0.250	1.000	0.313	--	3.250	0.281	4	1/4	-4	1/4	-4
H - _ 04 /04 -03-1/Z		5.625							--	5.000		4				
H - _ 04 /04 -04-1/Z		7.375							--	6.750		4				
H - _ 04 /04 -05-1/Z		9.125							--	8.500		4				
H - _ 04 /04 -06-1/Z		10.875							5.125	10.250		6				
H - _ 04 /04 -07-1/Z		12.625							5.125	12.000		6				
H - _ 04 /04 -08-1/Z		14.375							6.875	13.750		6				
H - _ 04 /04 -09-1/Z		16.125							6.875	15.500		6				
H - _ 04 /04 -10-1/Z		17.875							8.625	17.250		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 06 /04 -02-1/Z	1.750	3.875	0.875	1.063	1.750	0.250	1.250	0.313	--	3.250	0.281	4	3/8	-6	1/4	-4
H - _ 06 /04 -03-1/Z		5.625							--	5.000		4				
H - _ 06 /04 -04-1/Z		7.375							--	6.750		4				
H - _ 06 /04 -05-1/Z		9.125							--	8.500		4				
H - _ 06 /04 -06-1/Z		10.875							5.125	10.250		6				
H - _ 06 /04 -07-1/Z		12.625							5.125	12.000		6				
H - _ 06 /04 -08-1/Z		14.375							6.875	13.750		6				
H - _ 06 /04 -09-1/Z		16.125							6.875	15.500		6				
H - _ 06 /04 -10-1/Z		17.875							8.625	17.250		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 08 /04 -02-1/Z	1.750	3.875	0.875	1.063	1.750	0.250	1.250	0.313	--	3.250	0.281	4	1/2	-8	1/4	-4
H - _ 08 /04 -03-1/Z		5.625							--	5.000		4				
H - _ 08 /04 -04-1/Z		7.375							--	6.750		4				
H - _ 08 /04 -05-1/Z		9.125							--	8.500		4				
H - _ 08 /04 -06-1/Z		10.875							5.125	10.250		6				
H - _ 08 /04 -07-1/Z		12.625							5.125	12.000		6				
H - _ 08 /04 -08-1/Z		14.375							6.875	13.750		6				
H - _ 08 /04 -09-1/Z		16.125							6.875	15.500		6				
H - _ 08 /04 -10-1/Z		17.875							8.625	17.250		6				



06_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _06_/06_-02-1/Z	1.750	5.000	0.875	1.500	2.000	0.250	1.250	0.313	--	4.375	0.281	4	3/8	-6	3/8	-6
H - _06_/06_-03-1/Z		7.000							--	6.375		4				
H - _06_/06_-04-1/Z		9.000							--	8.375		4				
H - _06_/06_-05-1/Z		11.000							--	10.375		4				
H - _06_/06_-06-1/Z		13.000							6.188	12.375		6				
H - _06_/06_-07-1/Z		15.000							6.188	14.375		6				
H - _06_/06_-08-1/Z		17.000							8.188	16.375		6				
H - _06_/06_-09-1/Z		19.000							8.188	18.375		6				
H - _06_/06_-10-1/Z		21.000							10.188	20.375		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _08_/06_-02-1/Z	1.750	5.000	0.875	1.500	2.000	0.250	1.250	0.313	--	4.375	0.281	4	1/2	-8	3/8	-6
H - _08_/06_-03-1/Z		7.000							--	6.375		4				
H - _08_/06_-04-1/Z		9.000							--	8.375		4				
H - _08_/06_-05-1/Z		11.000							--	10.375		4				
H - _08_/06_-06-1/Z		13.000							6.188	12.375		6				
H - _08_/06_-07-1/Z		15.000							6.188	14.375		6				
H - _08_/06_-08-1/Z		17.000							8.188	16.375		6				
H - _08_/06_-09-1/Z		19.000							8.188	18.375		6				
H - _06_/06_-10-1/Z		21.000							10.188	20.375		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _12_/06_-02-1/Z	2.000	5.000	1.000	1.500	2.000	0.250	1.500	0.313	--	4.375	0.281	4	3/4	-12	3/8	-6
H - _12_/06_-03-1/Z		7.000							--	6.375		4				
H - _12_/06_-04-1/Z		9.000							--	8.375		4				
H - _12_/06_-05-1/Z		11.000							--	10.375		4				
H - _12_/06_-06-1/Z		13.000							6.188	12.375		6				
H - _12_/06_-07-1/Z		15.000							6.188	14.375		6				
H - _12_/06_-08-1/Z		17.000							8.188	16.375		6				
H - _12_/06_-09-1/Z		19.000							8.188	18.375		6				
H - _12_/06_-10-1/Z		21.000							10.188	20.375		6				



Connection Manifold Header Bar Manifolds

08_SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 08 /08 -02-1/Z	1.750	5.375	0.875	1.500	2.375	0.250	1.250	0.313	--	4.750	0.281	4	1/2	-8	1/2	-8
H - _ 08 /08 -03-1/Z		7.750							--	7.125		4				
H - _ 08 /08 -04-1/Z		10.125							--	9.500		4				
H - _ 08 /08 -05-1/Z		12.500							--	11.875		4				
H - _ 08 /08 -06-1/Z		14.875							7.130	14.250		6				
H - _ 08 /08 -07-1/Z		17.250							7.130	16.625		6				
H - _ 08 /08 -08-1/Z		19.625							9.500	19.000		6				
H - _ 08 /08 -09-1/Z		22.000							9.500	21.375		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 12 /08 -02-1/Z	2.000	5.375	1.000	1.500	2.375	0.250	1.500	0.313	--	4.750	0.281	4	3/4	-12	1/2	-8
H - _ 12 /08 -03-1/Z		7.750							--	7.125		4				
H - _ 12 /08 -04-1/Z		10.125							--	9.500		4				
H - _ 12 /08 -05-1/Z		12.500							--	11.875		4				
H - _ 12 /08 -06-1/Z		14.875							7.125	14.250		6				
H - _ 12 /08 -07-1/Z		17.250							7.125	16.625		6				
H - _ 12 /08 -08-1/Z		19.625							9.500	19.000		6				
H - _ 12 /08 -09-1/Z		22.000							9.500	21.375		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 16 /08 -02-1/Z	2.500	5.375	1.250	1.500	2.375	0.280	1.940	0.375	--	4.625	0.344	4	1	-16	1/2	-8
H - _ 16 /08 -03-1/Z		7.750							--	7.000		4				
H - _ 16 /08 -04-1/Z		10.125							--	9.375		4				
H - _ 16 /08 -05-1/Z		12.500							--	11.750		4				
H - _ 16 /08 -06-1/Z		14.875							7.063	14.125		6				
H - _ 16 /08 -07-1/Z		17.250							7.063	16.500		6				
H - _ 16 /08 -08-1/Z		19.625							9.438	18.875		6				
H - _ 16 /08 -09-1/Z		22.000							9.438	21.250		6				

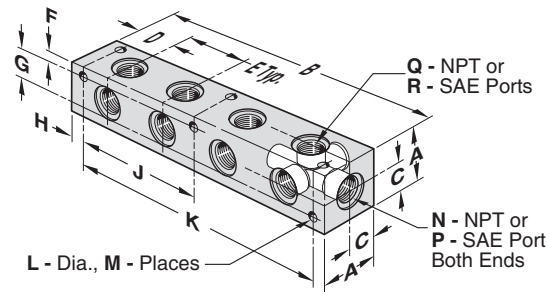
12_SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 12 /12 -02-1/Z	2.000	6.875	1.000	1.813	3.250	0.250	1.500	0.313	--	6.250	0.281	4	3/4	-12	3/4	-12
H - _ 12 /12 -03-1/Z		10.125							--	9.500		4				
H - _ 12 /12 -04-1/Z		13.375							--	12.750		4				
H - _ 12 /12 -05-1/Z		16.625							--	16.000		4				
H - _ 12 /12 -06-1/Z		19.875							9.625	19.250		6				
H - _ 12 /12 -07-1/Z		23.125							9.625	22.500		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 16 /12 -02-1/Z	2.500	6.875	1.250	1.813	3.250	0.280	1.940	0.375	--	6.125	0.344	4	1	-16	3/4	-12
H - _ 16 /12 -03-1/Z		10.125							--	9.375		4				
H - _ 16 /12 -04-1/Z		13.375							--	12.625		4				
H - _ 16 /12 -05-1/Z		16.625							--	15.875		4				
H - _ 16 /12 -06-1/Z		19.875							9.563	19.125		6				
H - _ 16 /12 -07-1/Z		23.125							9.563	22.375		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - _ 20 /12 -02-1/Z	3.000	6.875	1.500	1.813	3.250	0.344	2.312	0.375	--	6.125	0.406	4	1-1/4	-20	3/4	-12
H - _ 20 /12 -03-1/Z		10.125							--	9.375		4				
H - _ 20 /12 -04-1/Z		13.375							--	12.625		4				
H - _ 20 /12 -05-1/Z		16.625							--	15.875		4				
H - _ 20 /12 -06-1/Z		19.875							9.563	19.125		6				
H - _ 20 /12 -07-1/Z		23.125							9.563	22.375		6				

Connection Manifold Header Bar Manifolds



16 SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 16 /16 -02-1/Z	2.500	7.750	1.250	2.000	3.750	0.280	1.940	0.375	--	7.000	0.344	4	1	-16	1	-16
H - 16 /16 -03-1/Z		11.500							--	10.750		4				
H - 16 /16 -04-1/Z		15.250							--	14.500		4				
H - 16 /16 -05-1/Z		19.000							7.250	18.250		6				
H - 16 /16 -06-1/Z		22.750							11.000	22.000		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 20 /16 -02-1/Z	3.000	7.750	1.500	2.000	3.750	0.344	2.312	0.375	--	7.000	0.406	4	1-1/4	-20	1	-16
H - 20 /16 -03-1/Z		11.500							--	10.750		4				
H - 20 /16 -04-1/Z		15.250							--	14.500		4				
H - 20 /16 -05-1/Z		19.000							7.250	18.250		6				
H - 20 /16 -06-1/Z		22.750							11.000	22.000		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 24 /16 -02-1/Z	3.500	7.750	1.750	2.000	3.750	0.406	2.688	0.500	--	6.750	0.531	4	1-1/2	-24	1	-16
H - 24 /16 -03-1/Z		11.500							--	10.500		4				
H - 24 /16 -04-1/Z		15.250							--	14.250		4				
H - 24 /16 -05-1/Z		19.000							7.125	18.000		6				
H - 24 /16 -06-1/Z		22.750							10.875	21.750		6				

20 SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 20 /20 -02-1/Z	3.000	8.500	1.500	2.250	4.000	0.344	2.312	0.375	--	7.750	0.406	4	1-1/4	-20	1-1/4	-20
H - 20 /20 -03-1/Z		12.500							--	11.750		4				
H - 20 /20 -04-1/Z		16.500							--	15.750		4				
H - 20 /20 -05-1/Z		20.500							7.875	19.750		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 24 /20 -02-1/Z	3.500	8.500	1.750	2.250	4.000	0.406	2.688	0.500	--	7.500	0.531	4	1-1/2	-24	1-1/4	-20
H - 24 /20 -03-1/Z		12.500							--	11.500		4				
H - 24 /20 -04-1/Z		16.500							--	15.500		4				
H - 24 /20 -05-1/Z		20.500							7.750	19.500		6				

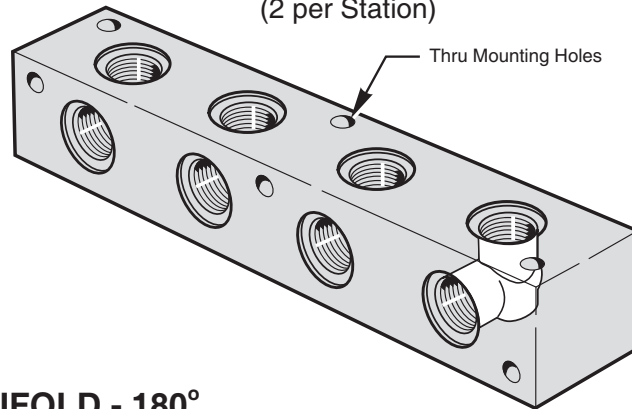
24 SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 24 /24 -02-1/Z	3.500	10.000	1.750	2.500	5.000	0.406	2.688	0.500	--	9.000	0.531	4	1-1/2	-24	1-1/2	-24
H - 24 /24 -03-1/Z		15.000							--	14.000		4				
H - 24 /24 -04-1/Z		20.000							9.500	19.000		6				

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
H - 32 /24 -02-1/Z	4.000	10.000	2.000	2.500	5.000	0.406	3.188	0.500	--	9.000	0.531	4	2	-32	1-1/2	-24
H - 32 /24 -03-1/Z		15.000							--	14.000		4				
H - 32 /24 -04-1/Z		20.000							9.500	19.000		6				

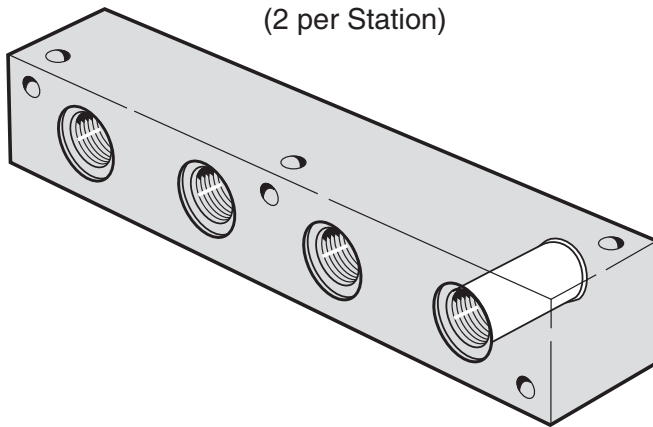
JUNCTION MANIFOLD - 90°

Side Connections at 90°
(2 per Station)



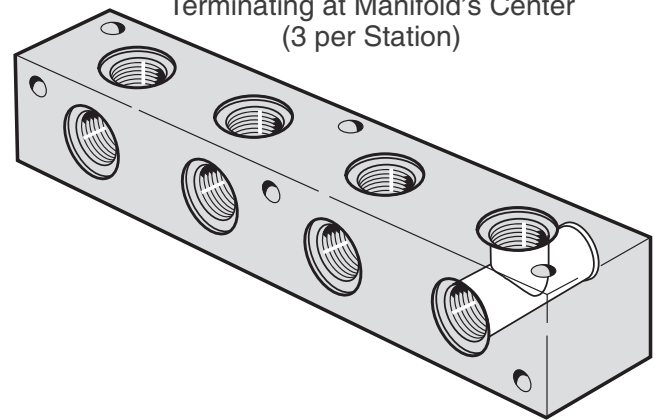
JUNCTION MANIFOLD - 180°

Side Connection Thru
(2 per Station)



JUNCTION MANIFOLD - 270°

3 Side Connections
Terminating at Manifold's Center
(3 per Station)



MAGNALOY JUNCTION MANIFOLD - PART NUMBER BREAKDOWN

7

J A - 2 7 0 0 0 / 0 8 S - 0 4 - 1 / Z

Product Code
J - Junction Manifold

Material Code
A - Aluminum
S - Ductile/Steel

Port Angles
09 - 90°
18 - 180°
27 - 270°

End Ports
'000' for all
Junction Manifold

* See size charts for standard sizes and
porting. See pg 14 for Mtg. Hardware

Options
Z - No Options

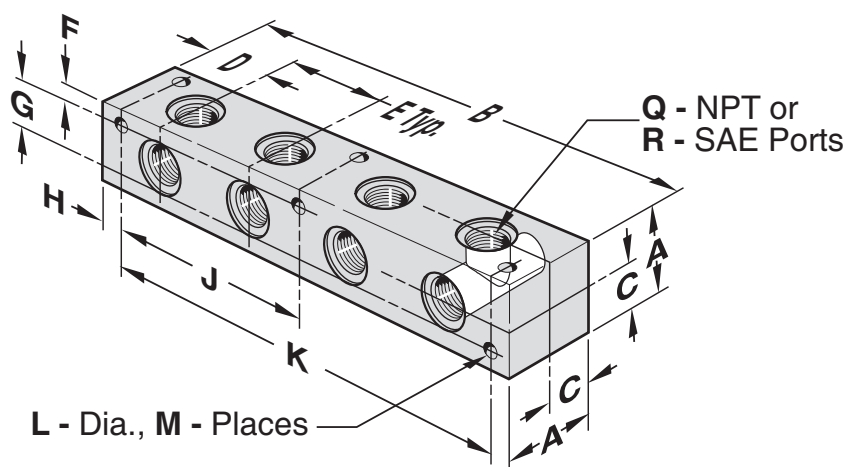
Design Series

Number of Stations

Side Ports *

##S - SAE
##P - NPTF

01P - 1/16 NPT	04S - #4 SAE
02P - 1/8 NPT	06S - #6 SAE
04P - 1/4 NPT	08S - #8 SAE
06P - 3/8 NPT	12S - #12 SAE
08P - 1/2 NPT	16S - #16 SAE
12P - 3/4 NPT	20S - #20 SAE
16P - 1" NPT	24S - #24 SAE
20P - 1 1/4 NPT	32S - #32 SAE
24P - 1 1/2 NPT	
32P - 2" NPT	



01P SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/01P-02-1/Z	1.500	3.250	0.750	1.000	1.250	0.250	1.000	0.313	--	2.625	0.281	4	1/16	--
J - _000/01P-03-1/Z		4.500							--	3.875		4		
J - _000/01P-04-1/Z		5.750							--	5.125		4		
J - _000/01P-05-1/Z		7.000							--	6.375		4		
J - _000/01P-06-1/Z		8.250							3.813	7.625		6		
J - _000/01P-07-1/Z		9.500							3.813	8.875		6		
J - _000/01P-08-1/Z		10.750							5.063	10.125		6		
J - _000/01P-09-1/Z		12.000							5.063	11.375		6		
J - _000/01P-10-1/Z		13.250							6.313	12.625		6		

02P SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/02P-02-1/Z	1.500	3.625	0.750	1.125	1.375	0.250	1.000	0.313	--	3.000	0.281	4	1/8	--
J - _000/02P-03-1/Z		5.000							--	4.375		4		
J - _000/02P-04-1/Z		6.375							--	5.750		4		
J - _000/02P-05-1/Z		7.750							--	7.125		4		
J - _000/02P-06-1/Z		9.125							4.250	8.500		6		
J - _000/02P-07-1/Z		10.500							4.250	9.875		6		
J - _000/02P-08-1/Z		11.875							5.625	11.250		6		
J - _000/02P-09-1/Z		13.250							5.625	12.625		6		
J - _000/02P-10-1/Z		14.625							7.000	14.000		6		

04 SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/04_-02-1/Z	1.750	3.875	0.875	1.063	1.750	0.250	1.250	0.313	--	3.250	0.281	4	1/4	-4
J - _000/04_-03-1/Z		5.625							--	5.000		4		
J - _000/04_-04-1/Z		7.375							--	6.750		4		
J - _000/04_-05-1/Z		9.125							--	8.500		4		
J - _000/04_-06-1/Z		10.875							5.125	10.250		6		
J - _000/04_-07-1/Z		12.625							5.125	12.000		6		
J - _000/04_-08-1/Z		14.375							6.875	13.750		6		
J - _000/04_-09-1/Z		16.125							6.875	15.500		6		
J - _000/04_-10-1/Z		17.875							8.625	17.250		6		

06_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/06_-02-1/Z	1.750	5.000	0.875	1.500	2.000	0.250	1.250	0.313	--	4.375	0.281	4	3/8	-6
J - _000/06_-03-1/Z		7.000							--	6.375		4		
J - _000/06_-04-1/Z		9.000							--	8.375		4		
J - _000/06_-05-1/Z		11.000							--	10.375		4		
J - _000/06_-06-1/Z		13.000							6.188	12.375		6		
J - _000/06_-07-1/Z		15.000							6.188	14.375		6		
J - _000/06_-08-1/Z		17.000							8.188	16.375		6		
J - _000/06_-09-1/Z		19.000							8.188	18.375		6		
J - _000/06_-10-1/Z		21.000							10.188	20.375		6		

08_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/08_-02-1/Z	2.000	5.375	1.000	1.500	2.375	0.250	1.500	0.313	--	4.750	0.281	4	1/2	-8
J - _000/08_-03-1/Z		7.750							--	7.125		4		
J - _000/08_-04-1/Z		10.125							--	9.500		4		
J - _000/08_-05-1/Z		12.500							--	11.875		4		
J - _000/08_-06-1/Z		14.875							7.125	14.250		6		
J - _000/08_-07-1/Z		17.250							7.125	16.625		6		
J - _000/08_-08-1/Z		19.625							9.500	19.000		6		
J - _000/08_-09-1/Z		22.000							9.500	21.375		6		

12_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/12_-02-1/Z	2.500	6.875	1.250	1.813	3.250	0.280	1.940	0.375	--	6.125	0.344	4	3/4	-12
J - _000/12_-03-1/Z		10.125							--	9.375		4		
J - _000/12_-04-1/Z		13.375							--	12.625		4		
J - _000/12_-05-1/Z		16.625							--	15.875		4		
J - _000/12_-06-1/Z		19.875							9.563	19.125		6		
J - _000/12_-07-1/Z		23.125							9.563	22.375		6		

16_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/16_-02-1/Z	3.000	7.750	1.500	2.000	3.750	0.344	2.312	0.375	--	7.000	0.406	4	1	-16
J - _000/16_-03-1/Z		11.500							--	10.750		4		
J - _000/16_-04-1/Z		15.250							--	14.500		4		
J - _000/16_-05-1/Z		19.000							7.250	18.250		6		
J - _000/16_-06-1/Z		22.750							11.000	22.000		6		

20_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/20_-02-1/Z	3.500	8.500	1.750	2.250	4.000	0.410	2.688	0.500	--	7.500	0.531	4	1-1/4	-20
J - _000/20_-03-1/Z		12.500							--	11.500		4		
J - _000/20_-04-1/Z		16.500							--	15.500		4		
J - _000/20_-05-1/Z		20.500							7.750	19.500		6		

24_ SIDE PORT

PART NO.	A	B	C	D	E	F	G	H	J	K	L	M	Q	R
J - _000/24_-02-1/Z	4.000	10.000	2.000	2.500	5.000	0.410	3.188	0.500	--	9.000	0.531	4	1-1/2	-24
J - _000/24_-03-1/Z		15.000							--	14.000		4		
J - _000/24_-04-1/Z		20.000							9.500	19.000		6		

R - Reference Pages



<u>Page</u>	<u>Description</u>	<u>Pattern</u>
R-1	Cartridge Relief Valve Cross Reference Table	C-10-2
		C-10-2R
		T-3A
		T-10A
R-2	Cartridge Relief Valve Equivalents for D03 Original Design and Series Bar Manifolds	RV-C10-2R-02
		RV-C10-2R-15
		RV-C10-2R-30
R-3	Cartridge Relief Valve Cavity Dimensions	C-10-2
		C-16-2
		T-10A
		T-3A
R-4	Cartridge Relief Valve Cavity Dimensions	T-16A
R-5	Cross Reference for Gasket Mounted Valves	
R-6	Standard Valve Interface Patterns	D03
		D05
		D05E
		D05H
		D07
		D08
R-7	Standard Valve Interface Patterns	2F06
		2F07
		P06
		P08
		P10
		R08

R



Manufacturer's Cross Reference For Stocked Relief Valve Cartridges

Usage: All Current Bar Manifolds (Except D03 "SBM" and D03 Series)
& Subplates w/C-10-2 Cavity (Pressure at Nose)

MagnaLoy Part Number	Mantech Part Number	Delta Power Part Number	Pressure Rating
RV-C10-2-02	S-10-1-2	DE-RVA-00-0200	50-200 PSI
RV-C10-2-15	S-10-1-15	DE-RVA-00-1500	50-1500 PSI
RV-C10-2-30	S-10-1-30	DE-RVA-00-3000	1500-3000 PSI

Usage: Current D03 Series and D03 Original Design ("SBM") Bar Manifolds)
(Reverse Flow Cartridge) C-10-2R Cavity (Pressure at Side)

MagnaLoy Part Number	Mantech Part Number	Delta Power Part Number	Pressure Rating
RV-C10-2R-02	S-10-2-2	8500-2124	50-200 PSI
RV-C10-2R-15	S-10-2-15	8500-2125	50-1500 PSI
RV-C10-2R-30	S-10-2-30	8500-2126	1500-3000 PSI

Usage: D05 Original Design Bar Manifolds and All Current
w/Sun T-3A Cavity (Pressure at Nose)

MagnaLoy Part Number	Mantech Part Number	Delta Power Part Number	Pressure Rating
RV-T3A-08	S-10-3-8	RPGCJDV	25-800 PSI
RV-T3A-15	S-10-3-15	RPGCJBV	50-1500 PSI
RV-T3A-30	S-10-3-30	RPGCJAV	100-3000 PSI

Usage: All Current w/Sun T-10A Cavity (Pressure at Nose)

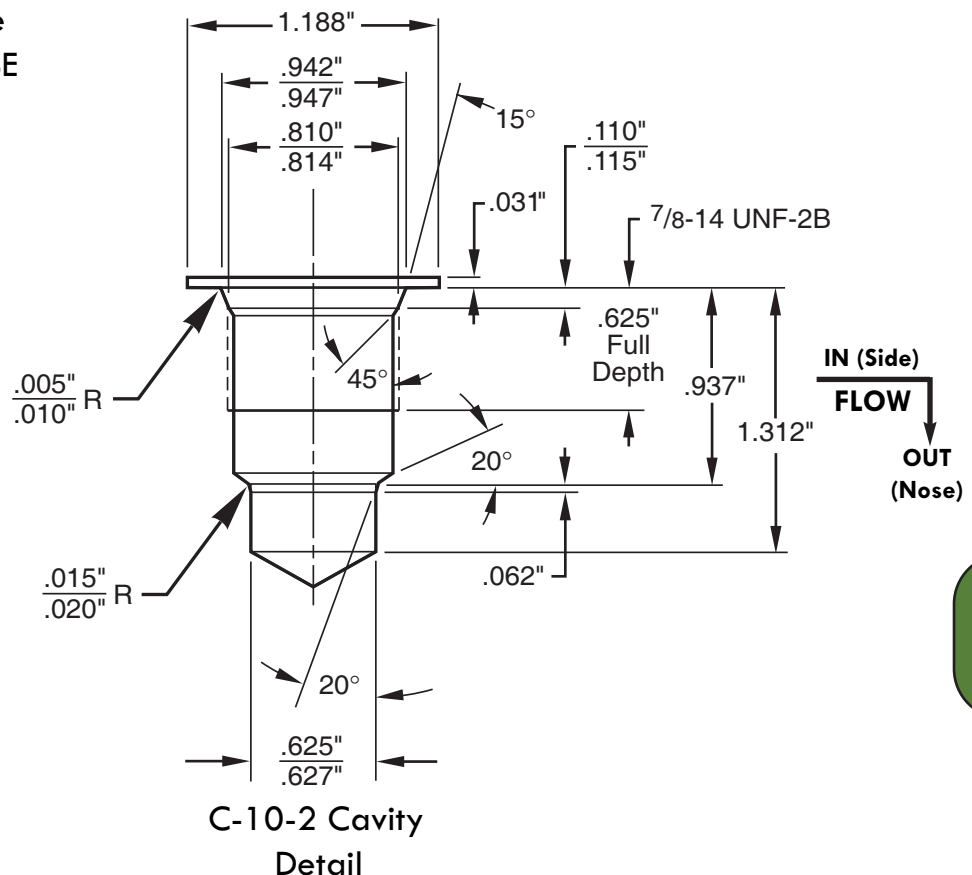
MagnaLoy Part Number	Mantech Part Number	Delta Power Part Number	Pressure Rating
RV-T10A-15	S-10-10-15	RPECJBV	50-1500 PSI
RV-T10A-30	S-10-10-30	RPECJAV	100-3000 PSI

R

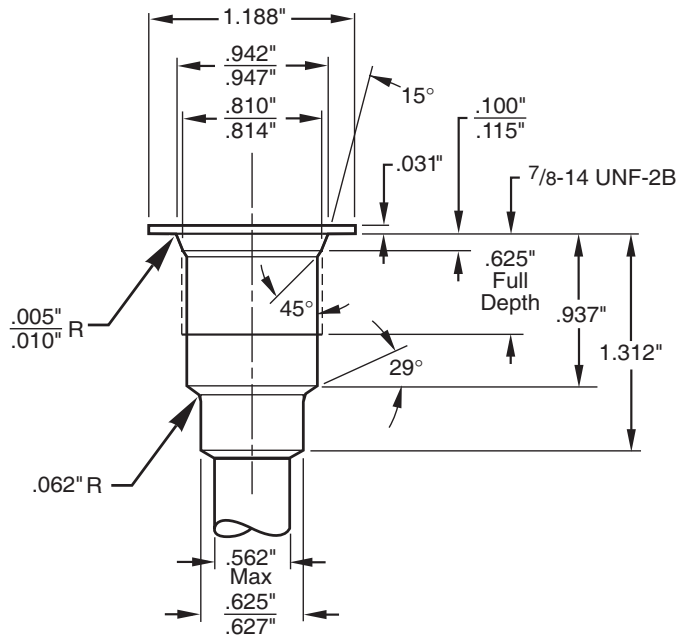
Supplier	Part Number		Pressure Range
	Magnaloy	Mantech (Original Model)	
Magnaloy Coupling Co. (for D03 Series & Original Design (SBM) Manifolds)	RV-C10-2R-02	S-10-2-2	50-200 PSI
	RV-C10-2R-15	S-10-2-15	200-1500 PSI
	RV-C10-2R-30	S-10-2-30	1500-3000 PSI
Delta Power Hydraulics	DE-RVD-00-0200		50-200 PSI
	DE-RVD-00-1500		200-1500 PSI
	DE-RVD-00-3000		1500-3000 PSI

Valves requiring equivalent cavities to illustrations shown below may be substituted.

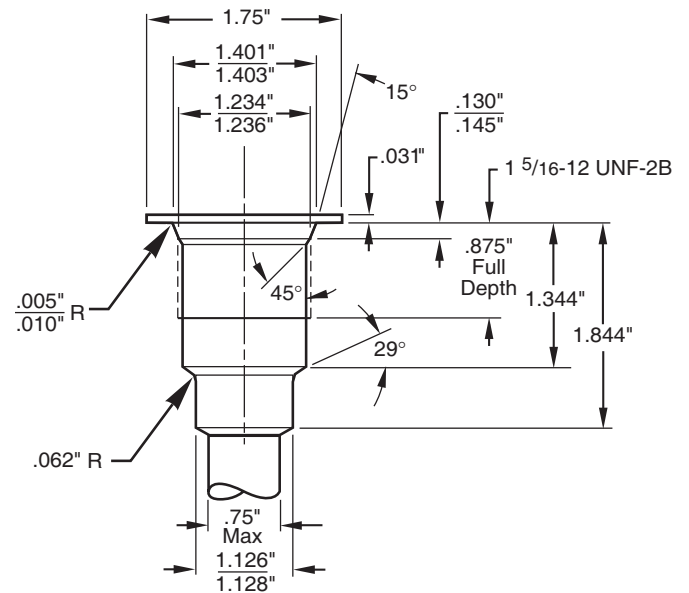
This is a Standard C10-2 Cavity except the valve has a reverse flow with SIDE INLET and NOSE OUTLET.



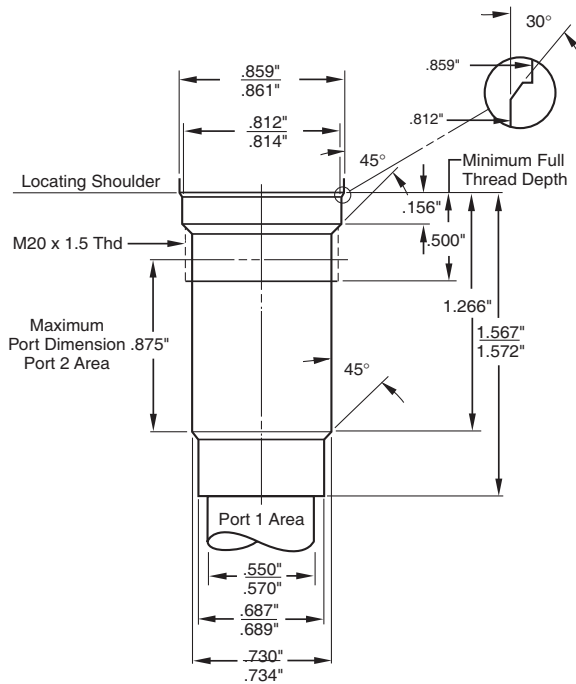
Common C-10-2



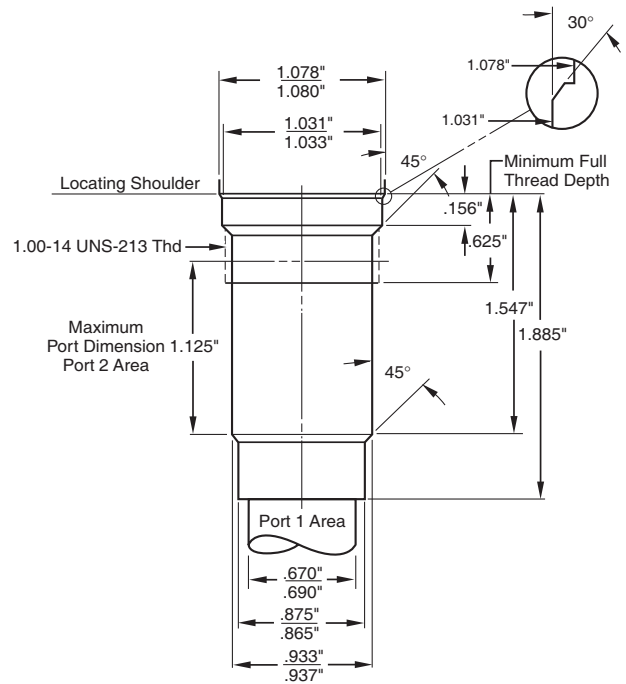
Common C-16-2



Sun T-10A



Sun T-3A



R

R-3

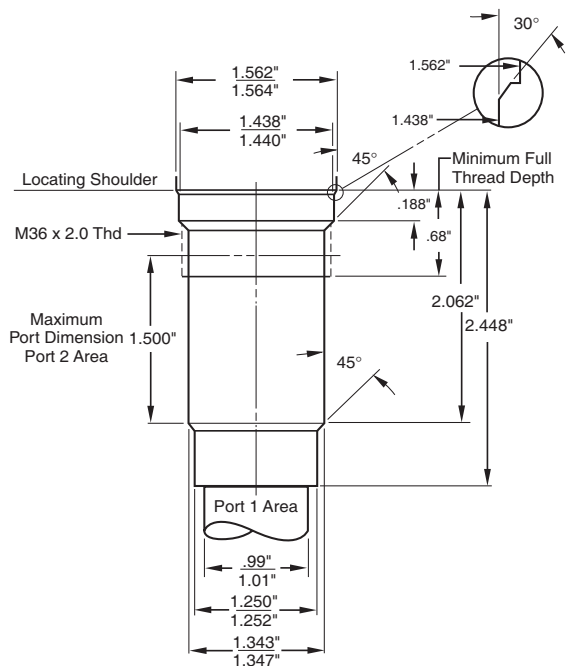
magnaloy coupling company 501 Commerce Drive Alpena, MI 49707 **989 356-2186**

A Division of Douville Johnston Corporation Fax: 989 354-4190 <http://www.magnaloy.com>

Cartridge Relief Valve Cavity Dimensions



Sun T-16A



R



Manufacturer's Cross Reference For Gasket Mounted Valves

Valve Manufacturer	Directional Valve			Pressure Control & Pressures Reducing Valves		Flow Control Valves	
	NFPA DO3	NFPA DO5	NFPA DO8	NFPA P06	NFPA P10	NFPA F02	NFPA F03
Continental	V* 3M V* 5M	V* 12M	V* 35M			F12M	F30M
Double A	005	02	06	BPQ-06 WQP-06	QSA-185	QXA-02	QXA-03
Hartman	00	1/8"	3/4"	3/4"	1 1/2"		
Parker	2M	3/8"	3/4"	16	20	60	80
Racine		1/4"	3/4"	3/4"	1 1/4"	1/4"	3/8"
Rexroth	6	8 & 10	20 & 22	DZ-20 DR-20	DZ-30 DR-30	2FRMM10-1	2FRMM15-1
Rivett	01-61	02-41	68** 3/8-1			P-8622-02-41	
Vickers	DG4V	DG45401	DG55406	RCG-06 XG-06	RG-10	FG-02-1500	FG-03-1500

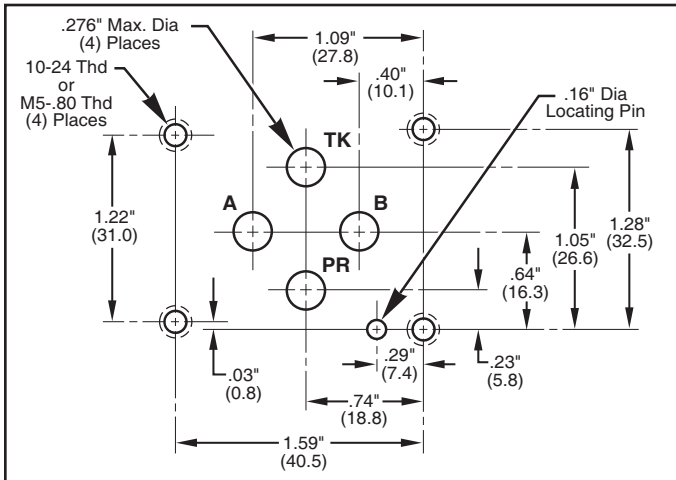
R

R-5

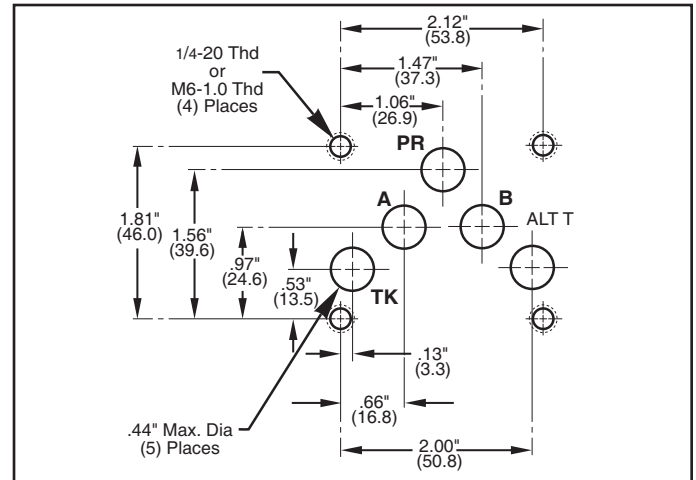
magnaloy coupling company 501 Commerce Drive Alpena, MI 49707 **989 356-2186**

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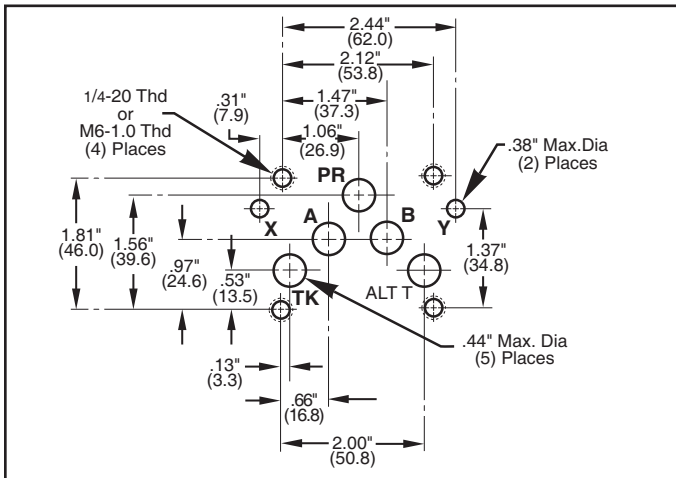
D03 Directional Valve Interface



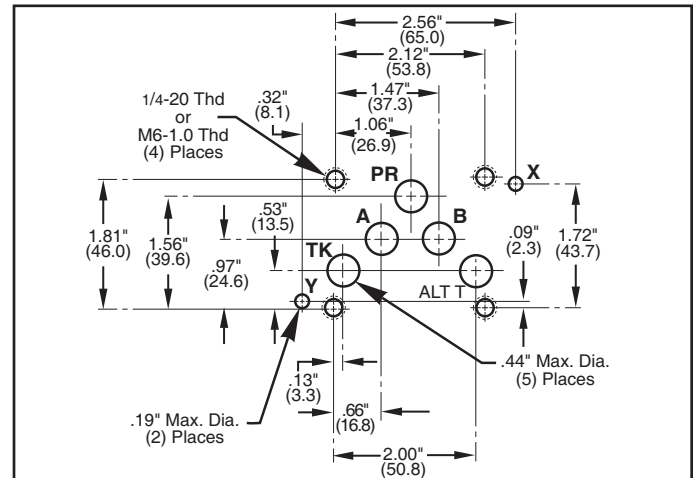
D05 Directional Valve Interface



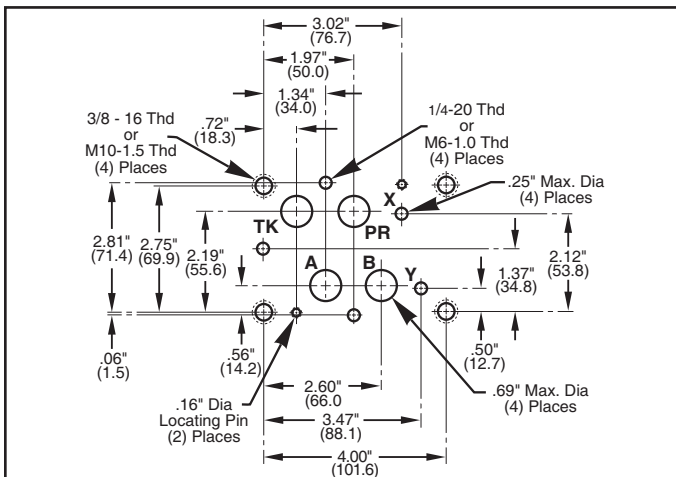
D05E Directional Valve Interface



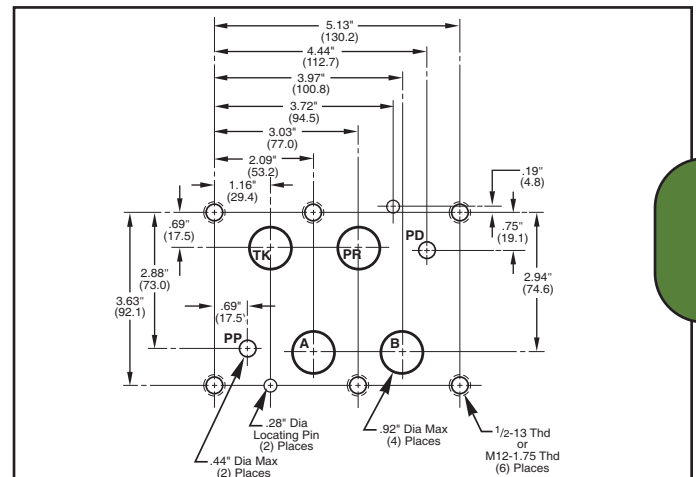
D05H Directional Valve Interface



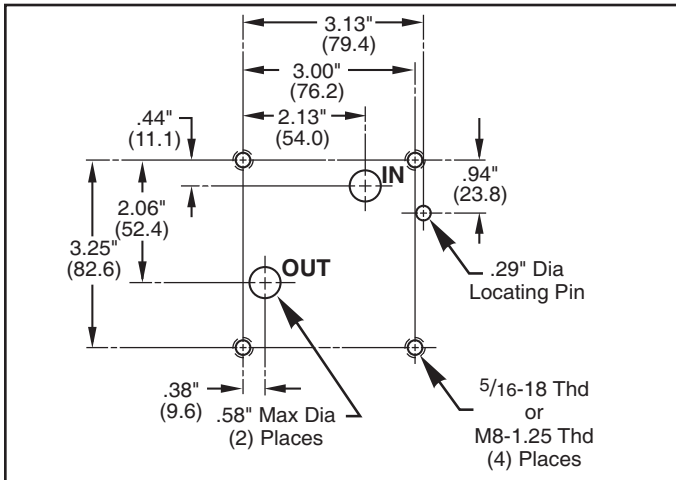
D07 Directional Valve Interface



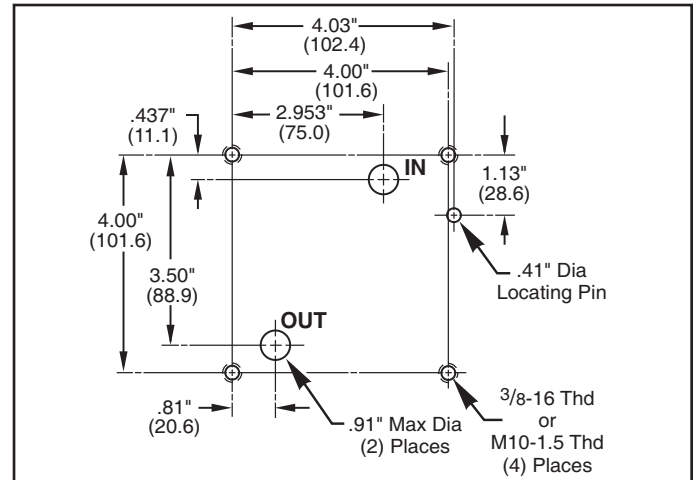
D08 Directional Valve Interface



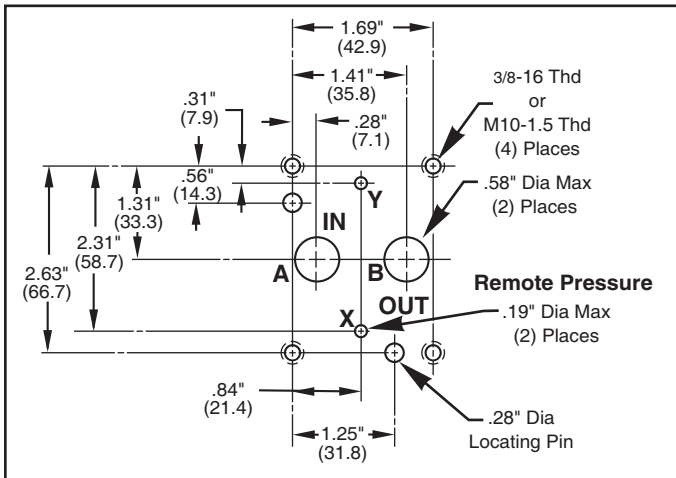
2F06 Flow Control Valve Interface



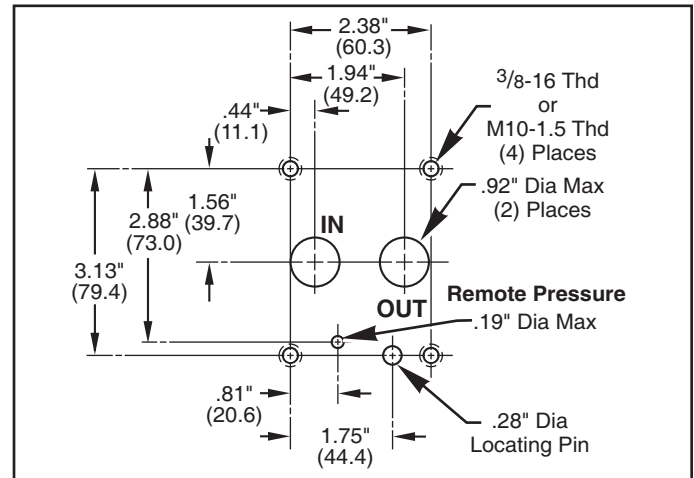
2F06 Flow Control Valve Interface



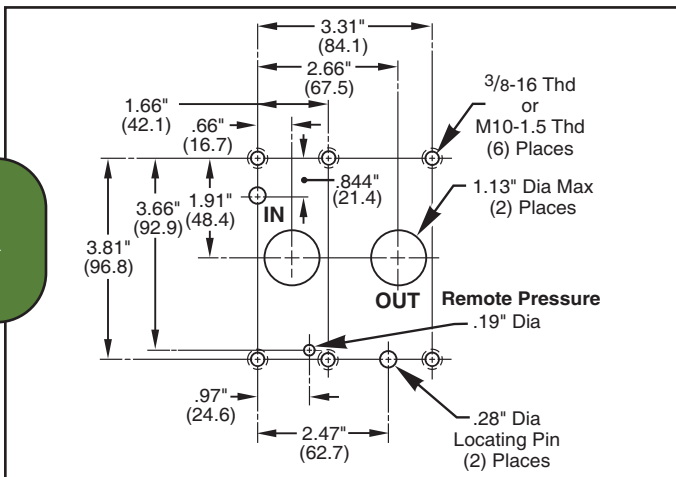
P06 Pressure Control Valve Interface



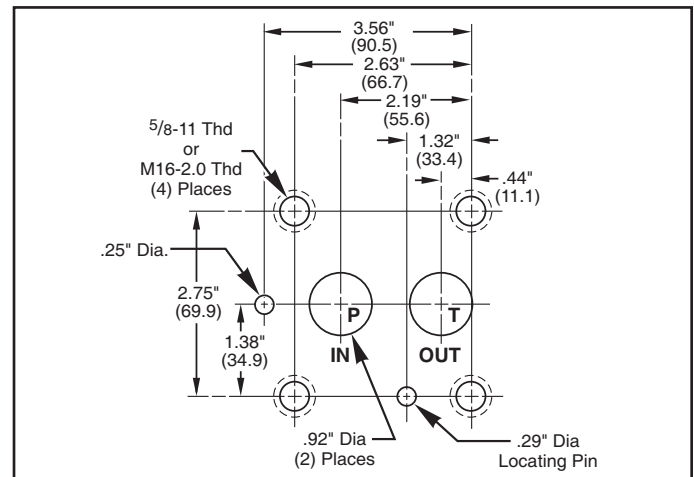
P08 Pressure Control Valve Interface



P10 Pressure Control Valve Interface



R08 Pilot Oper. Pres. Relief Valve Interface



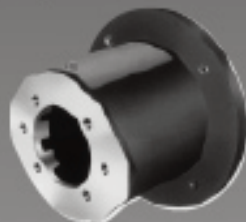
R



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