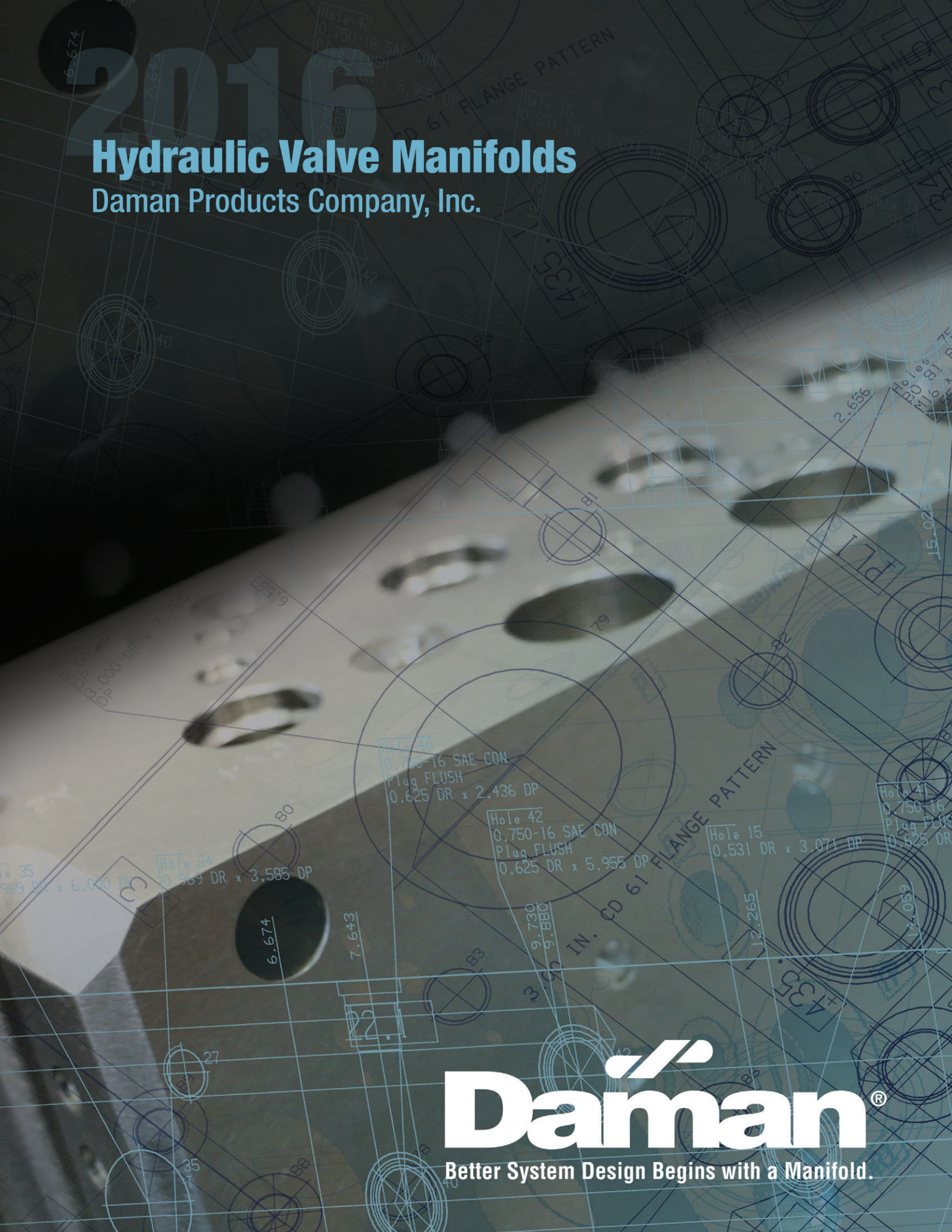
2016

Hydraulic Valve Manifolds

Daman Products Company, Inc.

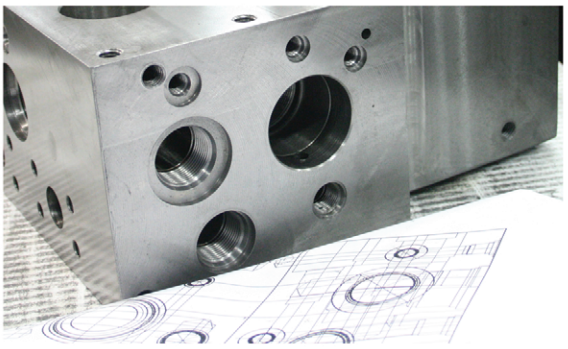


Daman®

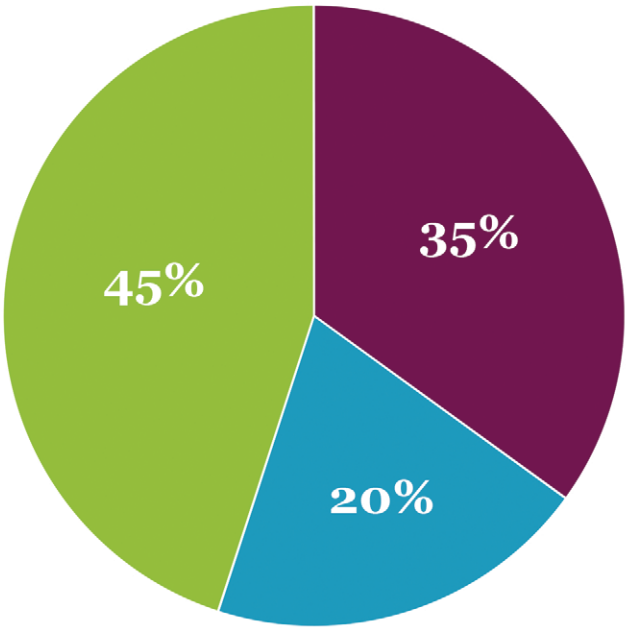
Better System Design Begins with a Manifold.

DEMAND DAMAN
EXPERIENCE THE DIFFERENCE

Our team is an extension of your team. Provide your custom concepts in any form, from a freehand schematic to a fully-engineered design. We will support your needs to efficiently manufacture a new custom manifold in as little as four weeks (varies based on demand). Repetitive, low-volume custom manifolds can be shipped within 24 hours by utilizing Daman's Trigger System (see inside back cover for more Trigger details).



DAMAN'S PRODUCT MIX



- Custom Manifolds in our Trigger program
- Custom Manifolds built to order
- Standard Manifolds

SUBMIT YOUR CUSTOM MANIFOLD RFQ TODAY!

RFQ Details – Required

- Hydraulic circuit diagram
- BOM list of valve part numbers used
- Port sizes
- Port type (SAE, NPTF, flange, metric, etc.)
- Material type (aluminum, ductile, iron, etc.)

RFQ Details – Optional

- Specific layout requirements (valve or port locations, etc.)
- Surface coating requirements
- Anticipated annual usage

Visit Daman.com to download our RFQ Checklist and expedite the quoting process.

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DRIVING EXCEPTIONAL PERFORMANCE

Let our Daman team take care of your needs for the entire Custom Manifold process including: manufacturing, circuit diagrams, cost quotations, manifold design, troubleshooting, sales and technical support.

CUSTOM MANIFOLD CAPABILITIES

- Daman has manufactured Custom Manifolds since 1976
- 75,000 sq. ft. facility with 50,000 sq. ft. dedicated to manufacturing
- 65% of Daman's capacity is devoted to Custom Manifolds
- Custom Manifold quotations processed in 24 hours or less for most projects
- Large manifolds up to 4000 lbs.
- Maximum envelope size: 40" x 40" x 67"
- Ability to machine stainless steel, carbon steel, ductile iron and various grades of aluminum
- More than 145 Custom Manifold quotations processed every week
- 41% of Custom Manifold quotations are converted to orders
- 99.87% manufacturing accuracy rating
- 98.60% design accuracy rating
- 99.55% on-time delivery rating
- 10 full-time designer and support staff with over 250 years of combined project design and sales support experience
- State-of-the-art design capabilities using manifold-specific software
- Award-winning industry recognition for our world-class cellular manufacturing practices using Lean processes
- 16 CNC Machining Centers
- Over $320,000 invested in dedicated tooling and inspection equipment
- $750K Ultrasonic Wash investment
- Inventory of more than 700 cartridge cavity tools for all major valve manufacturers

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STANDARD MANIFOLDS

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Subplate Mtd. Valve Cross Reference

Daman / NFPA pattern no.	ISO no.	Bosch	CEI	Contin-ental	Denison	Nachi	North-man	Parker	Rexroth	Rivett	Vickers
D02	4401-02-01	--	--	--	--	--	--	--	--	--	DG4V-2
D03	4401-03-02	FD4-**HS-*01	--	V*D03M E*03M V*5M	A-3D01 A4D01 4DPD01	SA-G01 SS-G01 DMA-G01	G02	D1VW	WE6	6***-D03	(K)DG4V-3
D05	4401-05-04	FD4-D*KS-*02	VS-52	ED05M V*12M	A-3D02 A4D02 4DPD02	SS-G03 DMA-G03	G03	D3W	WE10	6***-D05	DG4S*-01 DG4V-4 (K)DG4V-5
D05 Alt. A (D05HE)	4401-05-05	--	--	--	--	--	--	D31DW	WEH10	--	(K)DG3V-5 (K)DG5V-5
D05 Alt. B (D05H)	--	FD4-**HS-*02	--	--	--	--	--	D31W D31VW	--	6***-D05H	DG5S4-02
D06	--	FD4-**HS-*04	VS-63	--	--	--	--	--	--	--	DG4S4-02 (obsolete)
D07	4401-07-06	081WV16P1	--	--	A-3D03 A4D03 4DPD03	DSS-G04	G04	--	WEH16	--	DG5S4-04 (K)DG3V-7 (K)DG5V-7
D08	4401-08-07	FD4-**HS-*06	VS-86	V*D08M ED08M *VS50M	A-3D06 A4D06 4DPD06	DSS-G06 HF(S)-G06	G06	D61VW	WEH22	6***-D08 6***-D08H	DG5S-(H)8 (K)DG3V-8 (K)DG5V-8
D10	4401-10-08	FD4-**HS-*10	--	VSD10M V*100M*	A-3D10-35 A4D010	DSS-G10 HF(S)-G10	G10	D101VW	WEH32	--	DG5S4-10 (K)DG3V-10 (K)DG5V-10
2F06	6263-06-05	FF2-*HS*-02*	--	F12M	2F1C02	(C)FT-G02	--	FG3PKC	2FRM10	--	F(C)G-02
2F07	6263-07-09	FF2-*HS*-03*	--	--	2F1C03	FT-G03	--	--	2FRM16	--	F(C)G-03
P06	6264-06-07 5781-06-07	FD2-PTHS-*03 081DV10P1	--	--	R4*03	--	--	PR*3M	S*10P DZ*10**	P48**03	R(C)G-03
P08	6264-08-11 5781-08-10	FD2-PTHS-*06 081DV25P1	--	E*35M	R4*06	HT(S)-G06	--	PR*6M	S*20P DZ*20**	P48**06	R(C)G-06
P10	6264-10-15 5781-10-13	FD2-PTHS-*10	--	--	R4*10	HT(S)-G10	--	PR*10M	S*30P DZ*30**	P48**10	R(C)G-10
R06 (I06)	6264-06-09	081DV10P3	--	--	--	RI-03	--	--	DB**10	--	CG-03
R08	6264-08-13	FE1-PB**-S06* 081DV25P3	--	--	--	RI-06	--	--	DB**20	--	--
R10	6264-10-17	FE1-PB**-S10*	--	--	--	RI-10	--	--	DB**30	--	--
I08 (RV08)	--	FE1-PB**-I06*	--	--	--	--	--	R6V	--	--	CG-06
I10 (RV10)	--	FE1-PB**-I10*	--	--	--	--	--	R10M	--	--	CG-10

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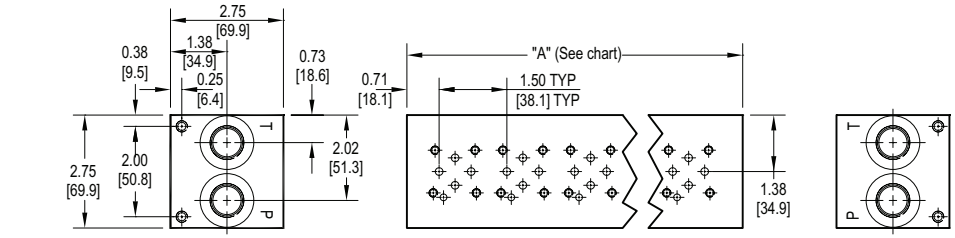
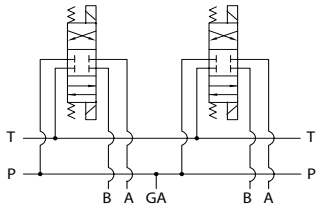
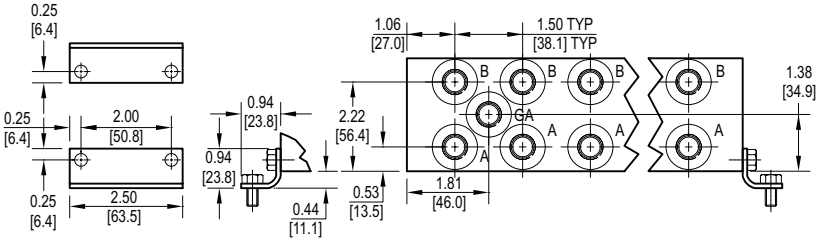
D02 Parallel Circuit Manifold

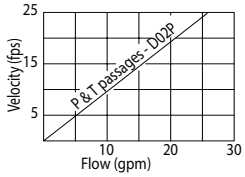


Parallel Circuit





Flow Curve



Rated flow 14 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length inch [mm]	2.13 [54.0]	3.63 [92.1]	5.13 [130.2]	6.63 [168.3]	8.13 [206.4]	9.63 [244.5]	11.13 [282.6]	12.63 [320.7]	14.13 [358.8]	15.63 [396.9]
apx. weight alum lb [kg]	3 [1.5]	5 [2.5]	7 [3]	8 [4]	10 [4.5]	12 [5.5]	14 [6]	16 [7]	17 [8]	19 [9]
apx. weight ferrous lb [kg]	5 [2.5]	8.5 [4]	12 [5.5]	16 [7]	19 [9]	23 [10]	26 [12]	30 [14]	33 [15]	37 [17]

* Length of 01 station with relief cavity is 3.13 [79.4]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 64 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14] DP	0.25-20 UNC x 0.38 [9.7] DP
B, M, T	M5 ISO 6H x 0.56 [14] DP	M6 ISO 6H x 0.38 [9.7] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

P	Parallel Circuit

Valve Spacing

1	1.50 inch 38.1 mm

Options

See next page for available options and ordering codes.

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

No. of Stations

Aluminum	
01...10	Available with spacing code 1
Ductile Iron	
01...10	Available with spacing code 1

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-8	-6	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M18	M14	none
T	BSPT • ISO 7	0.50	0.38	none

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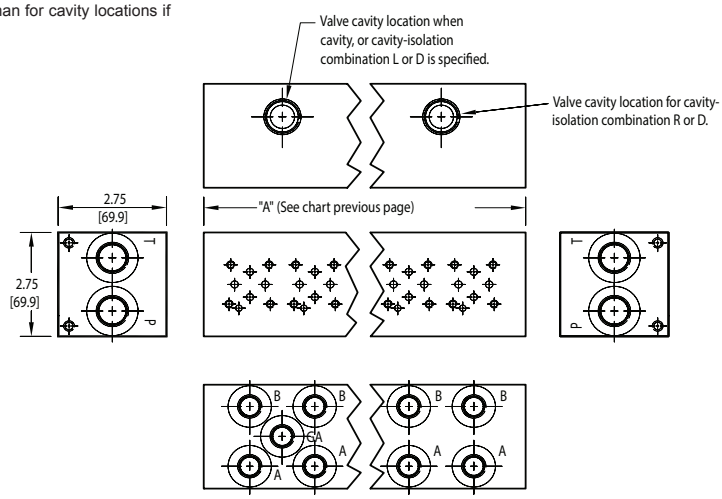
Options - D02 Parallel Manifold

Contact Daman for cavity locations if critical.



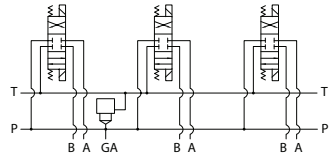
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10

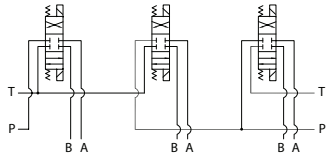
* Stations are numbered left to right.

Parallel Circuit with Cavity



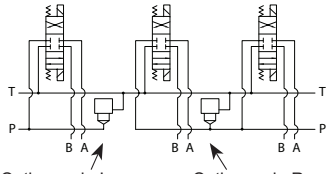
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

.../	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavity not required.

C	Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-162A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TJ	Available with spacing code 1

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 1

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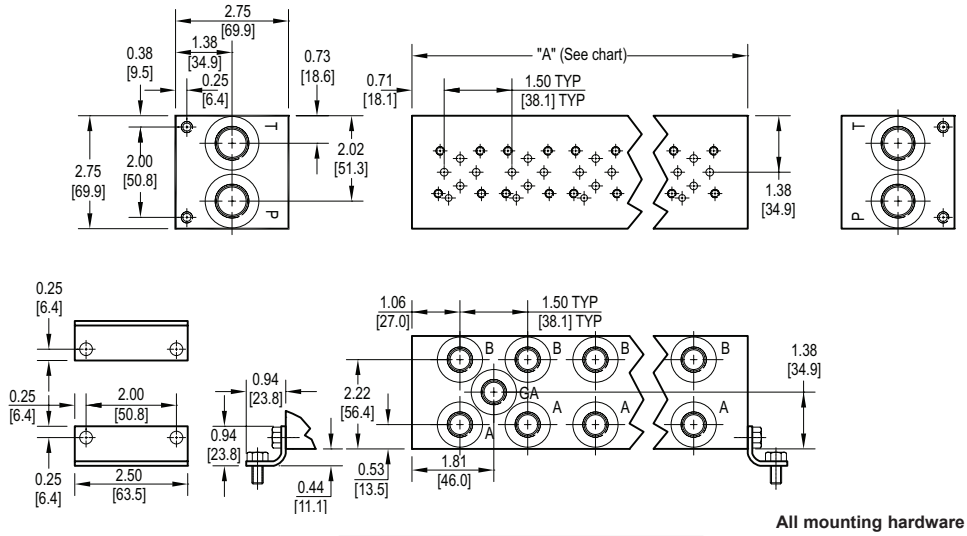
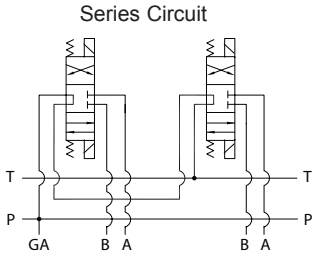
D02 Series Circuit Manifold





No. of stations	02	03	04
"A" length inch [mm]	3.63 [92.1]	5.13 [130.2]	6.63 [168.3]
apx. weight alum lb [kg]	5 [2.5]	7 [3]	8 [4]
apx. weight ferrous lb [kg]	8.5 [4]	12 [6]	16 [7]

All mounting hardware is supplied.
See page 64 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14] DP	0.25-20 UNC x 0.38 [9.7] DP
B, M, T	M5 ISO 6H x 0.56 [14] DP	M6 ISO 6H x 0.38 [9.7] DP

Note: Both Daman's parallel and series D02 manifolds have pressure and tank lines that run the length of the manifold. Consequently it is commonly assumed that an error was made by marking a parallel manifold incorrectly as a series. Upon closer inspection it can be seen that the valve patterns are indeed connected in series.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information

Circuit

S	Series Circuit

No. of Stations

Aluminum	
02...04	Available with spacing code 1
Ductile Iron	
02...04	Available with spacing code 1

Valve Spacing

1	1.50 inch 38.1 mm

Port Threads

		P & T	A & B	GA
P	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-8	-6	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M18	M14	none
T	BSPT • ISO 7	0.50	0.38	none

Options

See next page for available options and ordering codes.

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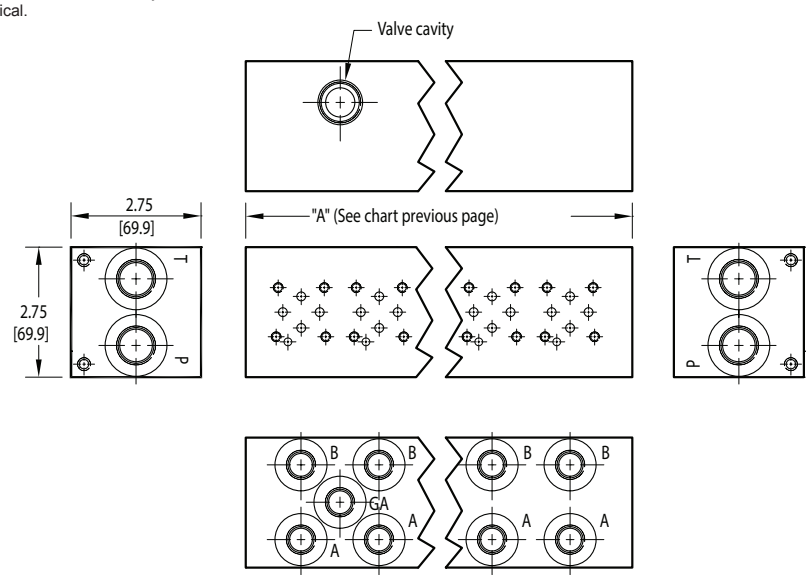
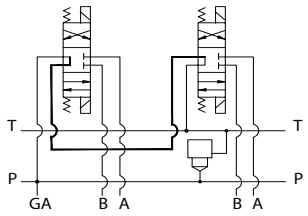
Options - D02 Series Manifold

Contact Daman for cavity locations if critical.



Series Circuit with Cavity



Valve with P in nose must be used.

Ordering Information

Cavity	
Omit if cavity not required.	
C	Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-162A (P in nose) See Tech Info for valves.

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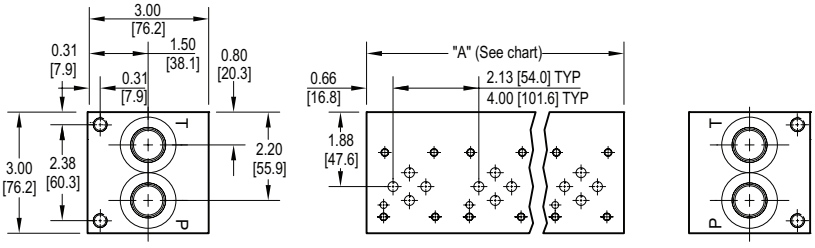
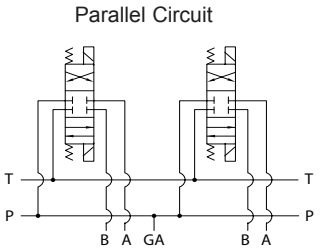
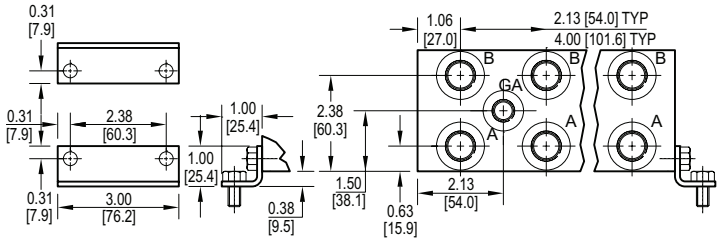
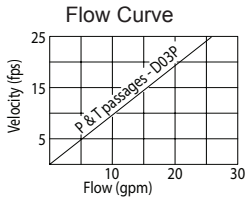
D03 Standard Flow Parallel Circuit Manifold









Rated flow 14 gpm @ 15 fps

All mounting hardware is supplied, except for stainless. See page 64 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
"A" length (code 2 spa.) inch [mm]	2.13 [54.0]	4.25 [108.0]	6.38 [162.1]	8.50 [215.9]	10.63 [270.0]	12.75 [323.9]	14.88 [378.0]	17.00 [431.8]	19.13 [485.9]	21.25 [539.8]	23.38 [593.9]	25.50 [647.7]	27.63 [701.8]	29.75 [755.7]	31.88 [809.8]	34.00 [853.6]	36.13 [917.6]	38.25 [971.6]	40.38 [1025.5]	42.50 [1079.5]
apx. weight alum lb [kg]	3 [1]	4 [2]	6 [3]	8 [4]	9 [4]	11 [5]	12 [5]	14 [6]	16 [7]	18 [8]	20 [9]	21 [10]	22 [10]	24 [11]	26 [12]	27 [12]	29 [13]	31 [14]	32 [15]	34 [15]
apx. weight ferrous lb [kg]	5 [2]	9 [4]	13 [6]	17 [8]	21 [10]	26 [12]	30 [14]	34 [15]	38 [17]	42 [19]	47 [21]	51 [23]	55 [25]	59 [27]	63 [29]	68 [31]	--	--	--	--
"A" length (code 4 spa.) inch [mm]	--	6.13 [155.7]	10.13 [257.3]	14.13 [358.9]	18.13 [460.5]	22.13 [562.1]	26.13 [663.7]	30.13 [765.3]	34.13 [866.9]	38.13 [968.5]	42.13 [1070.1]	46.13 [1171.7]	50.13 [1273.3]	54.13 [1374.9]	58.13 [1476.5]	62.13 [1578.1]				
apx. weight alum lb [kg]	--	6 [3]	9 [4]	12 [5]	15 [7]	19 [9]	22 [10]	25 [11]	29 [13]	32 [15]	36 [16]	39 [18]	42 [19]	46 [21]	49 [22]	53 [24]				
apx. weight ferrous lb [kg]	--	12 [5]	20 [9]	28 [13]	36 [16]	45 [20]	53 [24]	61 [28]	69 [31]	77 [35]	85 [39]	93 [42]	102 [46]	110 [50]	118 [54]	126 [57]				

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* Length of 01 station with relief cavity is 3.00 [76.2]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
S*	Stainless Steel - 17-4 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

*All stainless steel products are passivated.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...20	Available with spacing code 2
02...16	Available with spacing code 4
Ductile Iron	
01...16	Available with spacing code 2
02...16	Available with spacing code 4
Stainless Steel	
01...09	Available with spacing code 2
02...05	Available with spacing code 4

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Port Threads

		P & T	A & B	GA
P*	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-10	-8	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M22	M18	none
T*	BSPT • ISO 7	0.50	0.38	none

* Pipe ports in stainless can experience galling

Options

See next page for available options and ordering codes.

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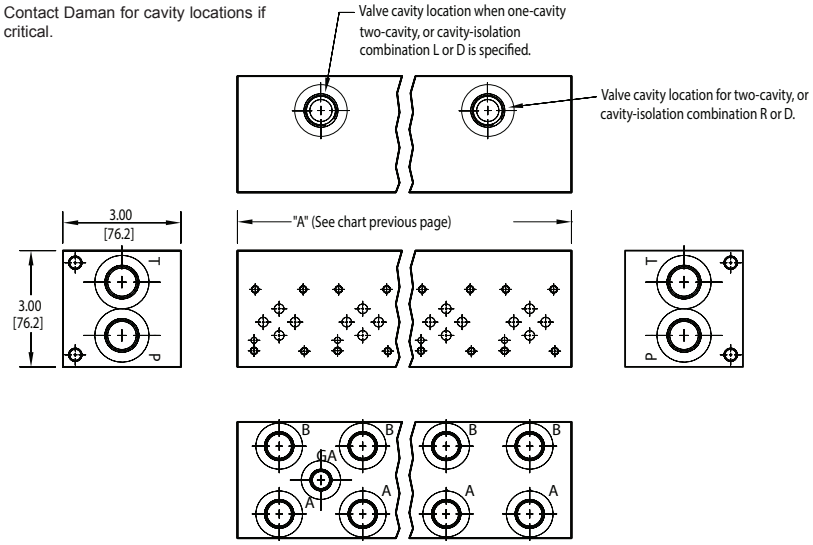
Options - D03 Standard Flow Parallel Manifold



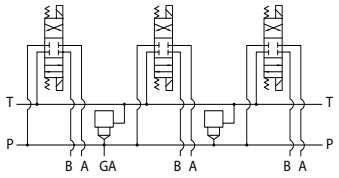
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-14
B	02 & 03	03-15
C	03 & 04	04-16
D	04 & 05	05-17
E	05 & 06	06-18
F	06 & 07	07-19
G	07 & 08	08-20
H	08 & 09	09-20
J	09 & 10	10-20
4.00 [101.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16

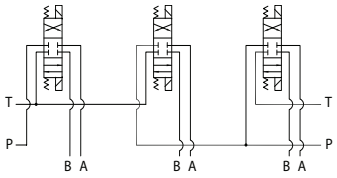
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



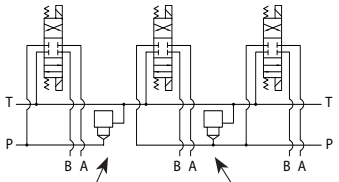
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible with spacing code 2. Consult factory to determine availablity.

Ordering Information

... /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavities not required

C	One Common cavity: No solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
CC	Two Common cavities: With solenoid clearance C-10-2 (P in nose) Available 03-20 stations with spacing code 2; Available 02-16 stations with spacing code 4. Not available in combination with isolation options.
S	One Sun Cavity: T-10A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 2
PA...PG	Available with spacing code 4

Tank Isolation

Omit if T isolation not required

TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation. (Use with cavity option codes C or S only.)

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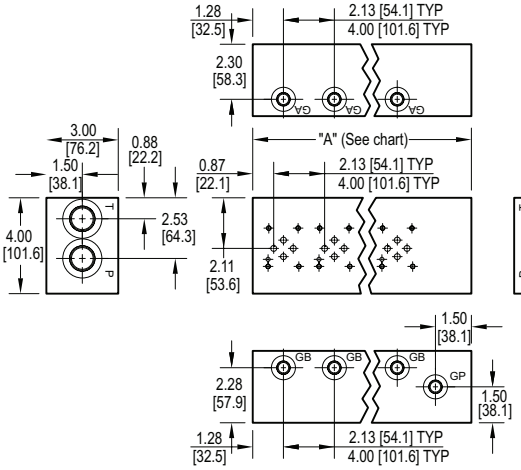
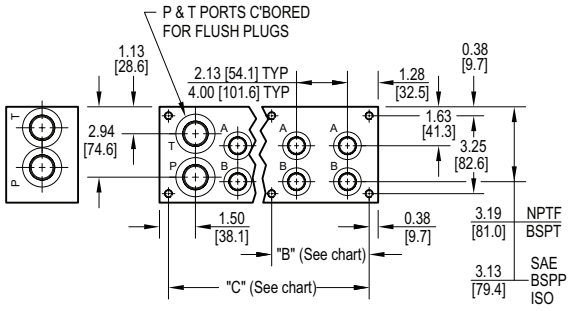
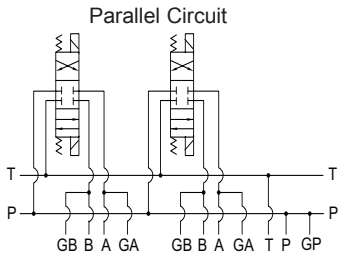
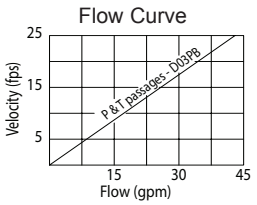
D03 Standard Flow Bottom Ported Manifold



Mounting hardware is NOT supplied.







Rated flow 25 gpm @ 15 fps

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.38-16 UNC x 0.69 [17.5] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 0.69 [17.5] DP

No. of stations	01	02	03	04	05	06	07	08	09	10	11	12
"A" length (code 2 spa.) inch [mm]	4.38 [111.1]	6.50 [165.1]	8.63 [219.1]	10.75 [273.1]	12.88 [327.0]	15.00 [381.0]	17.13 [435.0]	19.25 [489.0]	21.38 [542.9]	23.50 [596.9]	25.63 [650.9]	27.75 [704.9]
"B" dim (code 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.34 [211.9]	8.34 [211.9]	10.47 [265.9]	10.47 [265.9]	12.59 [319.9]
"C" dim (code 2 spa.) inch [mm]	3.63 [92.1]	5.75 [146.1]	7.88 [200.0]	10.00 [254.0]	12.13 [308.0]	14.25 [362.0]	16.38 [415.9]	18.50 [469.9]	20.63 [523.9]	22.75 [577.9]	24.88 [631.8]	27.00 [685.8]
apx. weight alum lb [kg]	5 [2]	8 [4]	10 [5]	13 [6]	15 [7]	18 [8]	21 [9]	23 [10]	26 [12]	28 [13]	31 [14]	33 [15]
apx. weight ferrous lb [kg]	14 [6]	20 [9]	27 [12]	34 [15]	40 [18]	47 [21]	53 [24]	60 [27]	67 [30]	73 [33]	80 [36]	87 [39]

No. of stations	02	03	04	05	06
"A" length (code 4 spa.) inch [mm]	8.38 [212.7]	12.38 [314.3]	16.38 [415.9]	20.38 [517.5]	24.38 [619.1]
"B" dim (code 4 spa.) inch [mm]	--	--	--	10.91 [277.0]	10.91 [277.0]
"C" dim (code 4 spa.) inch [mm]	7.63 [193.7]	11.63 [295.3]	15.63 [396.9]	19.63 [498.5]	23.38 [600.1]
apx. weight alum lb [kg]	10 [5]	15 [7]	20 [9]	24 [11]	29 [13]
apx. weight ferrous lb [kg]	26 [12]	39 [18]	51 [23]	64 [29]	76 [34]

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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads

For **coating options** see pages 245-246.

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

PB	Parallel Circuit Standard Flow Bottom Ported

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

No. of Stations

Aluminum	
01...12	Available with spacing code 2
02...06	Available with spacing code 4
Ductile Iron	
01...12	Available with spacing code 2
02...06	Available with spacing code 4

Port Threads

		P & T	A & B	G*
P	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-4
B	BSPP • ISO 1179	0.75	0.50	0.25
M	ISO • ISO 6149	M27	M18	M10
T	BSPT • ISO 7	0.75	0.50	0.25

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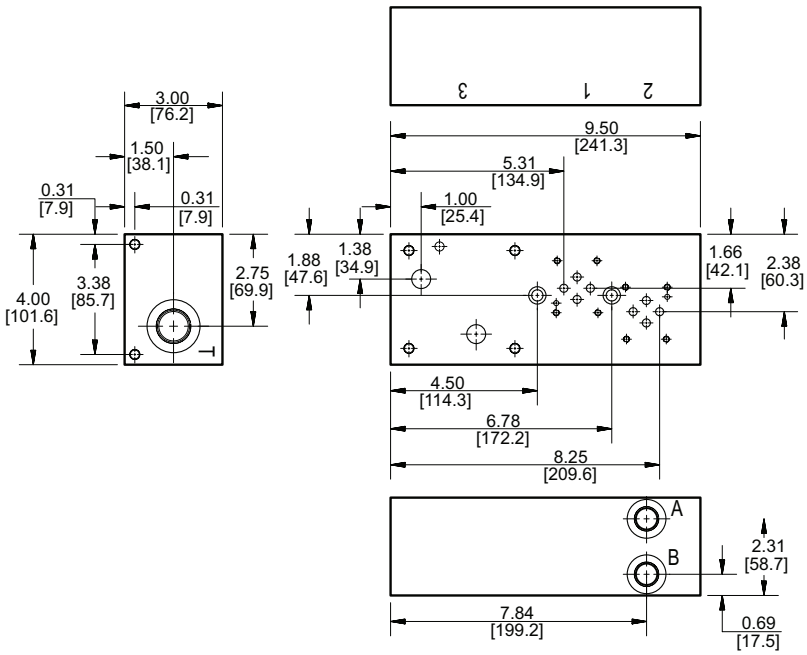
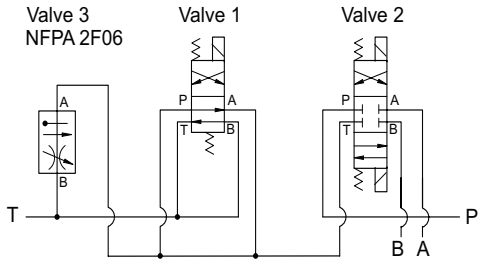
D03 Tank Line Feed Circuit Manifold

D03 Directional Valves
2F06 Flow Control Valve
Valve mtg: D03: UNC #10-24 x 0.63 DP
2F06: UNC 0.31-18 x 0.63 DP



"Meter Out" Tank Feed Circuit



Manifold Mounting:

Manifold bracket mounting kit is supplied. See page 64 for itemized mounting kit list.

Two SHCS clearance holes are provided for optional 5/16 (M8) SHCS mounting. Screws are user provided; miminum 3.00 in [75mm] long GR8 SHCS should be used.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

Material	Valve Pattern	Circuit	Port Threads

For **coating options** see pages 245-246.

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Flow Control Pattern (REF):
2F06 Pattern
ISO 6263-06-05
NFPA T3.5.1-2F06

Circuit

TF	Tank Line Feed Circuit

Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.38
S	SAE • ISO 11926	-12	-8

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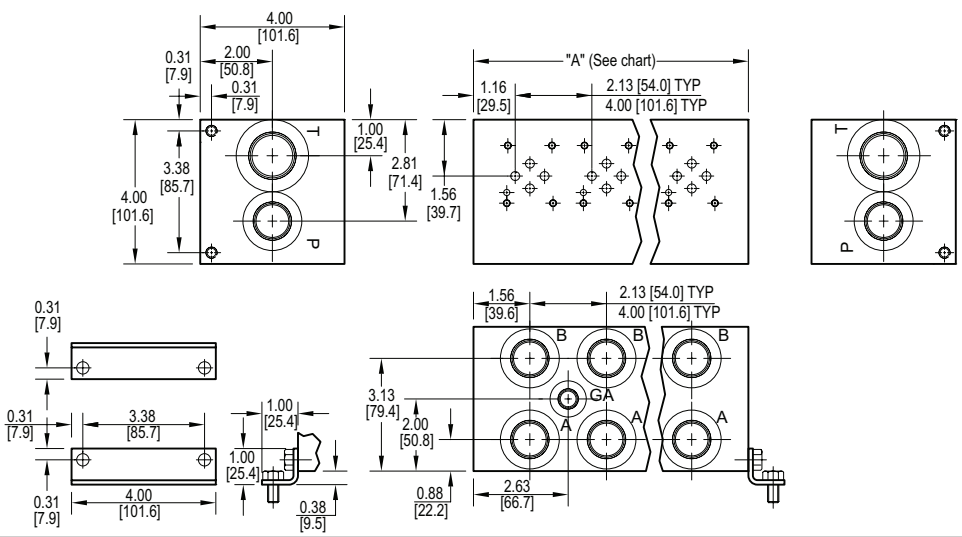
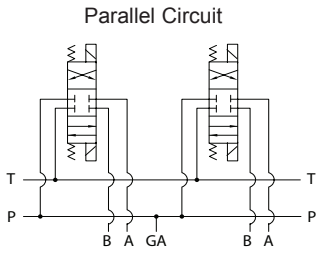
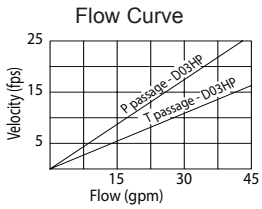
D03 High Flow Parallel Circuit Manifold







Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
"A" length (code 2 spa.) inch [mm]	3.13 [79.5]	5.25 [133.4]	7.38 [187.5]	9.50 [241.3]	11.63 [295.4]	13.75 [349.3]	15.88 [403.4]	18.00 [457.2]	20.13 [511.3]	22.25 [565.2]	24.38 [619.1]	26.50 [673.1]	28.63 [727.1]	30.75 [781.1]	32.88 [835.0]	35.00 [889.0]	37.13 [943.1]	39.25 [997.0]
apx. weight alum lb [kg]	5 [2]	8 [4]	12 [5]	15 [7]	18 [8]	22 [10]	25 [11]	28 [13]	32 [15]	35 [16]	39 [18]	42 [19]	46 [21]	49 [22]	52 [24]	56 [25]	59 [27]	63 [29]
apx. weight ferrous lb [kg]	13 [6]	22 [10]	30 [14]	39 [18]	48 [22]	57 [26]	66 [30]	74 [34]	83 [38]	92 [42]	101 [46]	110 [50]	119 [54]	128 [58]	137 [62]	146 [66]	--	--
"A" length (code 4 spa.) inch [mm]	--	7.13 [181.1]	11.13 [282.7]	15.13 [384.5]	19.13 [485.9]	23.13 [587.5]	27.13 [689.1]	31.13 [790.7]	35.13 [892.3]	39.13 [993.9]	43.13 [1095.5]							
apx. weight alum lb [kg]	--	11 [5]	17 [8]	24 [11]	30 [14]	37 [17]	43 [20]	49 [22]	56 [25]	62 [28]	68 [31]							
apx. weight ferrous lb [kg]	--	29 [13]	46 [21]	62 [28]	79 [36]	96 [44]	112 [51]	129 [59]	146 [67]	162 [74]	--							

All mounting hardware is supplied. See page 64 for itemized list.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

* Length of 01 station with relief cavity is 4.00 [101.6]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

HP	Parallel Circuit High Flow

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Options

See next page for available options and ordering codes.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech information

No. of Stations

Aluminum	
01...18	Available with spacing code 2
02...11	Available with spacing code 4
Ductile Iron	
01...16	Available with spacing code 2
02...10	Available with spacing code 4

Port Threads

		P,A,B	T	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.25
S	SAE • ISO 11926	-12	-16	-6
B	BSPP • ISO 1179	0.75	1.00	none
M	ISO • ISO 6149	M27	M33	none
T	BSPT • ISO 7	0.75	1.00	none

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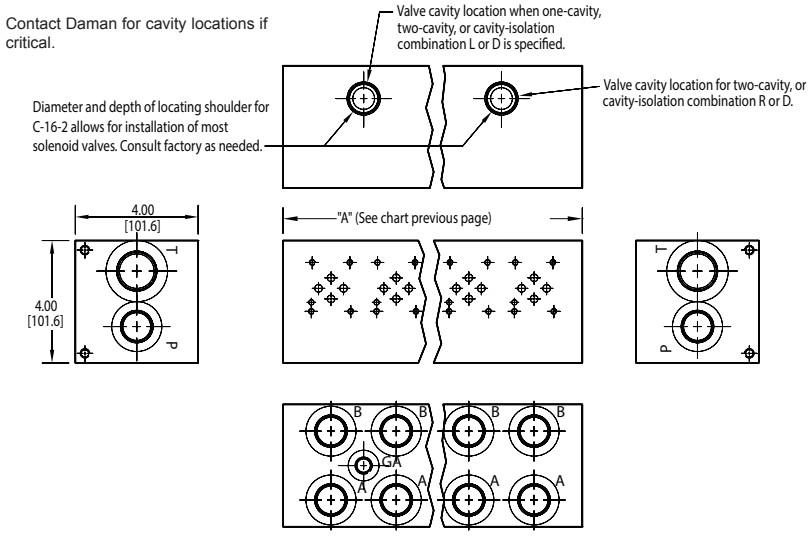
Options - D03 High Flow Parallel Manifold



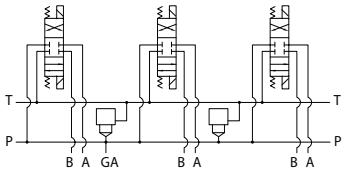
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-14
B	02 & 03	03-15
C	03 & 04	04-16
D	04 & 05	05-17
E	05 & 06	06-18
F	06 & 07	07-18
G	07 & 08	08-18
H	08 & 09	09-18
J	09 & 10	10-18
4.00 [101.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-11
D	04 & 05	05-11
E	05 & 06	06-11
F	06 & 07	07-11
G	07 & 08	08-11

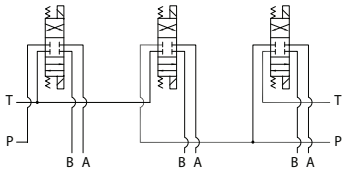
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



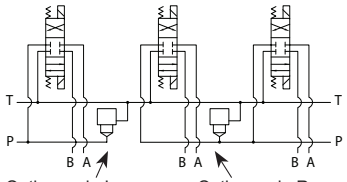
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible with spacing code 2. Consult factory to determine availablity.

Ordering Information

... /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavities not required

C	One Common cavity: C-16-2 (P in nose)
CC	Two Common cavities: C-16-2 (P in nose) Available 03-18 stations with spacing code 2; Available 02-11 stations with spacing code 4. Not available in combination with isolation options.
S	One Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 2
PA...PG	Available with spacing code 4

Tank Isolation

Omit if T isolation not required

TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation. (Use with cavity option codes C or S only.)

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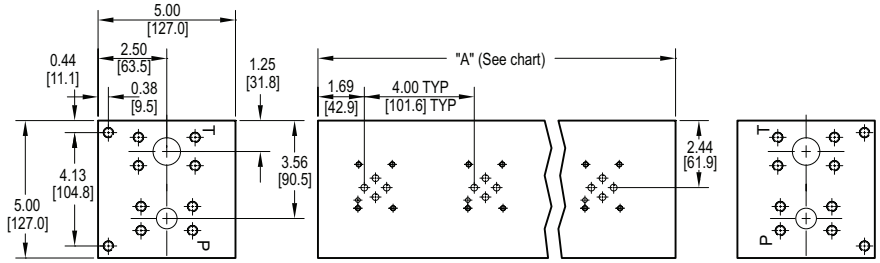
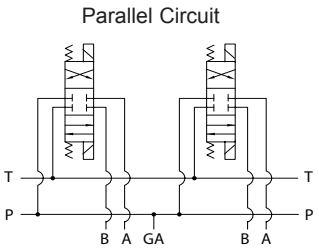
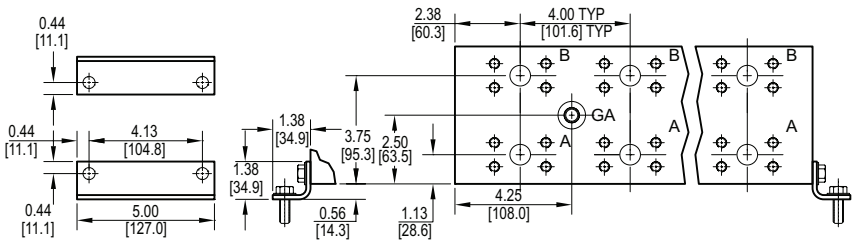
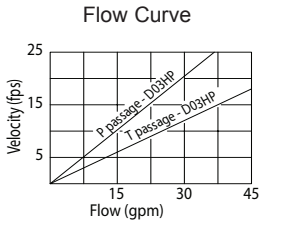
D03 High Flow Parallel Circuit Manifold - Flange Ports









Rated flow Pressure 21 gpm @ 15 fps
Rated flow Tank 37 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12
"A" length inch [mm]	4.75 [120.7]	8.75 [222.3]	12.75 [323.9]	16.75 [425.5]	20.75 [527.1]	24.75 [628.7]	28.75 [730.3]	32.75 [831.9]	36.75 [933.5]	40.75 [1035.1]	44.75 [1136.7]	48.75 [1238.3]
apx. weight alum lb [kg]	12 [5.5]	22 [10]	32 [14.5]	42 [19]	52 [23.5]	62 [28]	72 [33]	82 [37]	92 [42]	102 [46]	112 [51]	122 [55]
apx. weight ferrous lb [kg]	31 [14]	57 [26]	83 [38]	109 [49]	135 [61]	161 [73]	187 [85]	213 [97]	239 [108]	265 [120]	291 [132]	317 [144]

* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port
F	#10-24 UNC x 0.63 [16] DP	0.38-16 UNC x 0.75 [19] DP	ISO 6162 Type II - Inch	**-6** SAE J1926
F / M	M5 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 0.75 [19] DP	ISO 6162 Type I - metric	NONE

All mounting hardware is supplied.
See page 64 for itemized list.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum or Ductile Iron	
01...12	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	0.75 CODE 61	1.00 CODE 61

Options

See next page for available options and ordering codes.

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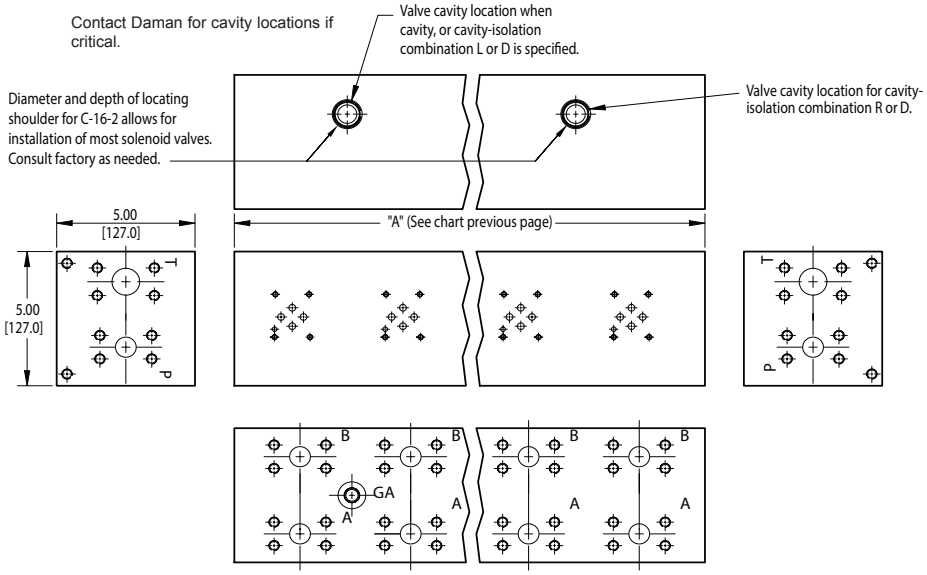
Options - D03 High Flow Parallel Manifold Flange Ports



ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-12
E	05 & 06	06-12
F	06 & 07	07-12
G	07 & 08	08-12

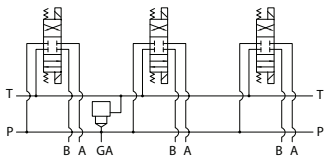
* Stations are numbered left to right.

NOTES:

1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

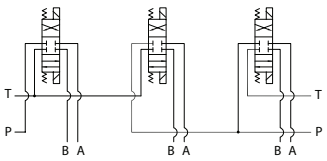
2) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Parallel Circuit with Cavity



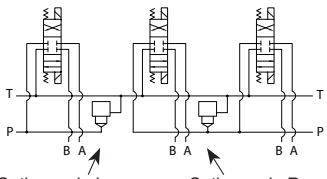
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

Ordering Information

. . . /	Thread Type	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Cavity

Omit if cavity not required

C	Common cavity: C-16-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 4

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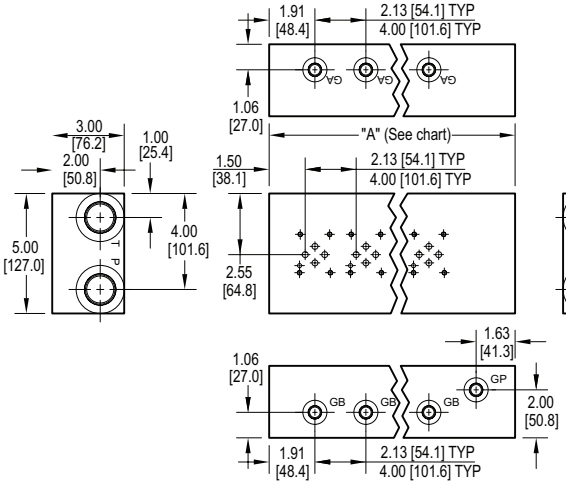
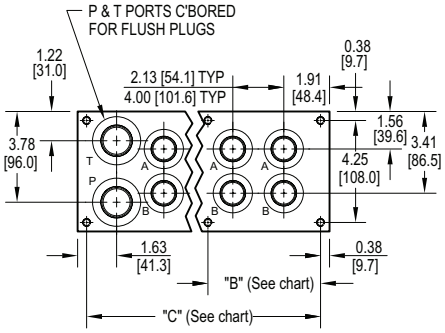
D03 High Flow Bottom Ported Manifold

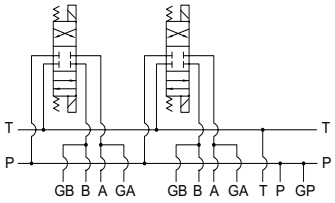


Mounting hardware is NOT supplied.

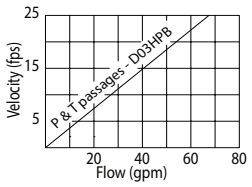


Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14.3] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M5 ISO 6H x 0.56 [14.3] DP	M10 ISO 6H x 1.00 [25.4] DP

Parallel Circuit



Flow Curve



Rated flow 41 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07	08	09	10
"A" length (code 2 spa.) inch [mm]	5.50 [139.7]	7.63 [193.7]	9.75 [247.7]	11.88 [301.6]	14.00 [355.6]	16.13 [409.6]	18.25 [463.6]	20.38 [517.5]	22.50 [571.5]	24.63 [625.5]
"B" dim (code 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.97 [227.8]	11.09 [281.8]	11.09 [281.8]
"C" dim (code 2 spa.) inch [mm]	4.75 [120.7]	6.88 [174.6]	9.00 [228.6]	11.13 [282.6]	13.25 [336.6]	15.38 [390.5]	17.50 [444.5]	19.63 [498.5]	21.75 [552.5]	23.88 [606.4]
apx. weight alum lb [kg]	8 [4]	11 [5]	15 [7]	18 [8]	21 [10]	24 [11]	27 [12]	31 [14]	34 [15]	37 [17]
apx. weight ferrous lb [kg]	21 [10]	30 [13]	38 [17]	46 [21]	55 [25]	63 [29]	71 [32]	79 [36]	88 [40]	96 [44]

No. of stations	02	03	04	05	06
"A" length (code 4 spa.) inch [mm]	9.50 [241.3]	13.50 [342.9]	17.50 [444.5]	21.50 [546.1]	25.50 [647.7]
"B" dim (code 4 spa.) inch [mm]	--	--	--	11.53 [292.9]	11.53 [292.9]
"C" dim (code 4 spa.) inch [mm]	8.75 [222.3]	12.75 [323.9]	16.75 [425.5]	20.75 [527.1]	24.75 [628.7]
apx. weight alum lb [kg]	14 [6]	20 [9]	26 [12]	32 [15]	38 [17]
apx. weight ferrous lb [kg]	37 [17]	53 [24]	68 [31]	84 [38]	99 [45]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads

For **coating options** see pages 245-246.

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

HPB	Parallel Circuit High Flow Bottom Ported

Valve Spacing

2	2.13 inch 54.0 mm
4	4.00 inch 101.6 mm

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

No. of Stations

Aluminum	
01...10	Available with spacing code 2
02...06	Available with spacing code 4
Ductile Iron	
01...10	Available with spacing code 2
02...06	Available with spacing code 4

Port Threads		P & T	A & B	G*
P	NPTF • ANSI B1.20.3	1.00	0.75	0.25
S	SAE • ISO 11926	-16	-12	-4
B	BSPP • ISO 1179	1.00	0.75	0.25
M	ISO • ISO 6149	M33	M27	M10
T	BSPT • ISO 7	1.00	0.75	0.25

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D03 Series Circuit Manifolds ☞

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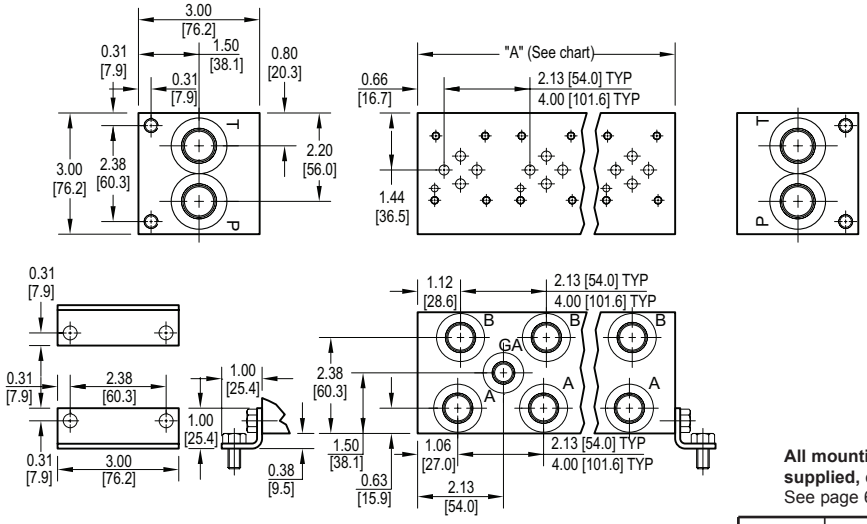
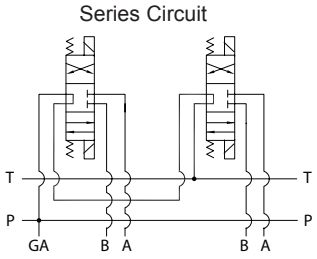
D03 Series Circuit Manifold





No. of stations	02	03	04	05	06	07	08
"A" length (code 2 spa.) inch [mm]	4.25 [108.0]	6.38 [162.1]	8.50 [215.9]	10.63 [270.0]	12.75 [323.9]	14.88 [378.0]	17.00 [431.8]
apx. weight alum lb [kg]	4 [2]	6 [3]	8 [4]	9 [4]	11 [5]	12 [5]	14 [6]
apx. weight ferrous lb [kg]	9 [4]	13 [6]	17 [8]	23 [10]	26 [12]	--	--
"A" length (code 4 spa.) inch [mm]	6.13 [155.7]	10.13 [257.3]	14.13 [358.9]				
apx. weight alum lb [kg]	6 [3]	9 [4]	12 [5]				
apx. weight ferrous lb [kg]	12 [5]	20 [9]	28 [13]				

All mounting hardware is supplied, except for stainless.
See page 64 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.63 [16] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M5 ISO 6H x 0.63 [16] DP	M8 ISO 6H x 0.44 [11.1] DP

Note: Both Daman's parallel and series D03 manifolds have pressure and tank lines that run the length of the manifold. Consequently it is commonly assumed that an error was made by marking a parallel manifold incorrectly as a series. Upon closer inspection it can be seen that the valve patterns are indeed connected in series.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
S*	Stainless Steel - 17-4 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

*All stainless steel products are passivated.

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Circuit

S	Series Circuit

No. of Stations

Aluminum	
02...08	Available with spacing code 2
02...04	Available with spacing code 4
Ductile Iron	
02...06	Available with spacing code 2
02...04	Available with spacing code 4
Stainless Steel	
02...08	Available with spacing code 2
02...04	Available with spacing code 4

Valve Spacing

2	2.13 inch 38.1 mm
4	4.00 inch 101.6 mm

Port Threads

		P & T	A & B	GA
P*	NPTF • ANSI B1.20.3	0.50	0.38	0.25
S	SAE • ISO 11926	-10	-8	-6
B	BSPP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M22	M18	none
T*	BSPT • ISO 7	0.50	0.38	none

* Pipe ports in stainless can experience galling

Options

See next page for available options and ordering codes.

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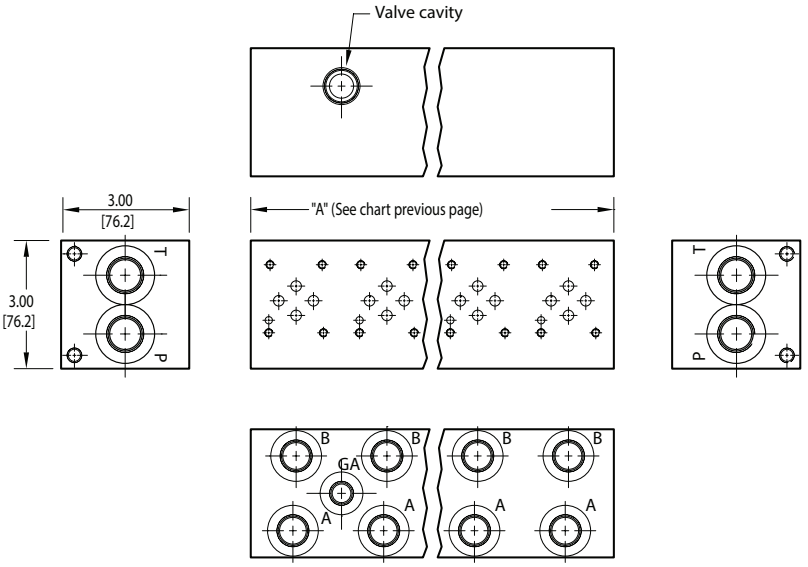
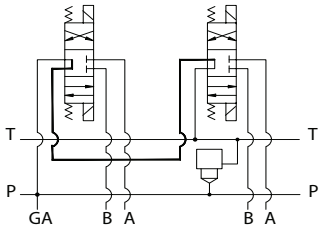
Options - D03 Series Manifold

Contact Daman for cavity locations if critical.



Series Circuit with Cavity



Valve with P in nose must be used.

Ordering Information

Cavity	
Omit if cavity not required.	
C	Common cavity: No solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-10A (P in nose) See Tech Info for valves.

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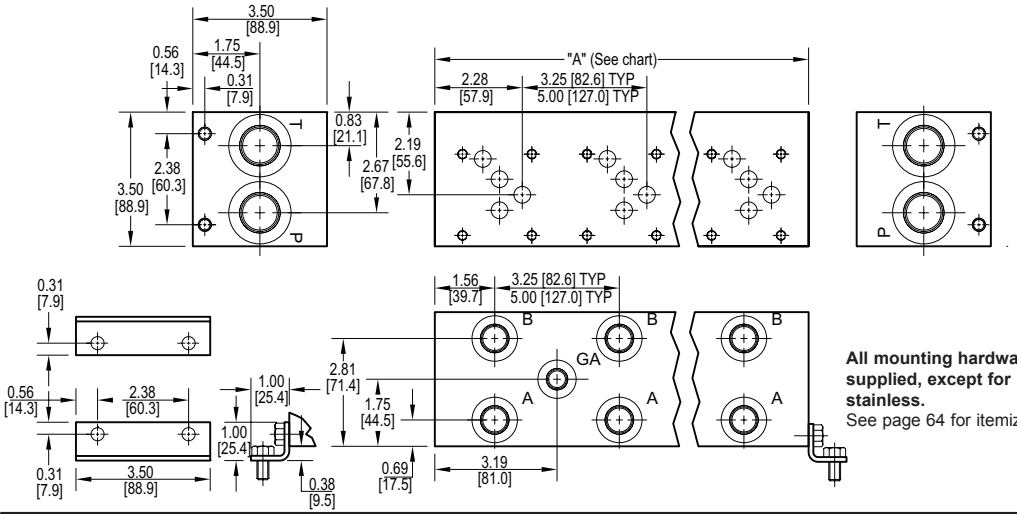
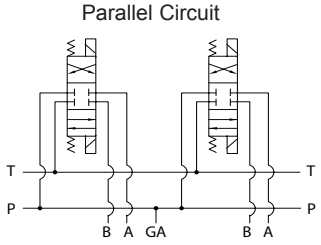
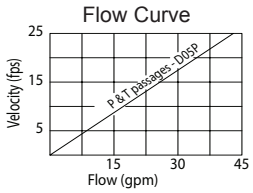
D05 Standard Flow Parallel Manifold





All mounting hardware is supplied, except for stainless.
See page 64 for itemized list.



Rated flow 25 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
"A" length (code 3 spa.) inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]	26.00 [660.4]	29.25 [743.0]	32.50 [825.5]	35.75 [908.1]	39.00 [990.6]	42.25 [1073.2]	45.50 [1155.7]	48.75 [1238.3]	52.00 [1320.8]	55.25 [1403.4]	58.50 [1485.9]	61.75 [1568.5]	65.00 [1651.0]	68.25 [1733.6]
apx. weight alum lb [kg]	4 [2]	8 [4]	11 [5]	14 [7]	17 [8]	21 [10]	24 [11]	27 [12]	30 [14]	34 [15]	37 [17]	41 [19]	44 [20]	47 [21]	51 [23]	55 [25]	58 [26]	61 [28]	64 [29]	67 [30]	71 [32]
apx. weight ferrous lb [kg]	9 [4]	17 [8]	26 [12]	34 [15]	43 [20]	51 [23]	60 [27]	68 [31]	77 [35]	85 [39]	94 [43]	102 [46]	111 [50]	--	--	--	--	--	--	--	--
"A" length (code 5 spa.) inch [mm]	--	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]	28.25 [717.6]	33.25 [844.6]	38.25 [971.6]	43.25 [1098.6]	48.25 [1225.6]	53.25 [1352.6]	58.25 [1479.6]	63.25 [1606.6]	68.25 [1733.6]							
apx. weight alum lb [kg]	--	9 [4]	15 [7]	20 [9]	25 [11]	30 [14]	35 [16]	41 [19]	46 [21]	50 [23]	55 [25]	60 [27]	65 [29]	71 [32]							
apx. weight ferrous lb [kg]	--	22 [10]	36 [16]	49 [22]	62 [28]	76 [34]	89 [40]	102 [46]	116 [53]	--	--	--	--	--							

* Length of 01 station with relief cavity is 4.50 [114.3]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M8 ISO 6H x 0.44 [11.1] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
S*	Stainless Steel - 17-4 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

*All stainless steel products are passivated.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...21	Available with spacing code 3
02...14	Available with spacing code 5
Ductile Iron	
01...12	Available with spacing code 3
02...09	Available with spacing code 5
Stainless Steel	
01...06	Available with spacing code 3
02...04	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	GA
P*	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-6
B	BSPP • ISO 1179	0.75	0.50	none
M	ISO • ISO 6149	M27	M18	none
T*	BSPT • ISO 7	0.75	0.50	none

* Pipe ports in stainless can experience galling

Options

See next page for available options and ordering codes.

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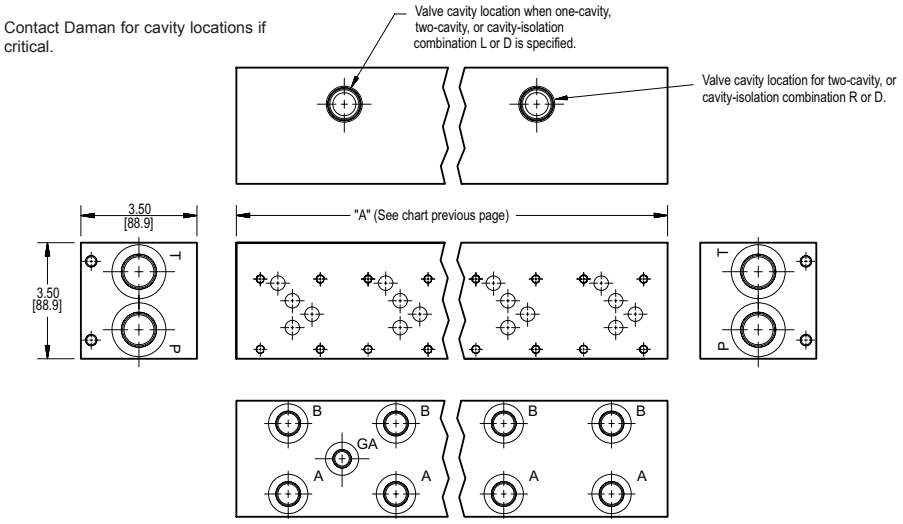
Options - D05 Standard Flow Parallel Manifold



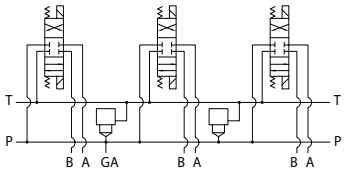
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-17
J	09 & 10	10-18
5.00 [127.0] spacing		
A	01 & 02	02-07
B	02 & 03	03-08
C	03 & 04	04-09
D	04 & 05	05-10
E	05 & 06	06-11
F	06 & 07	07-12

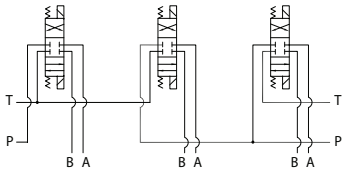
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



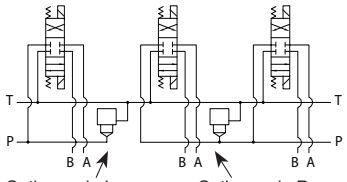
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible with spacing code 3. Consult factory to determine availablity.

Ordering Information

... /	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Cavity

Omit if cavities not required

C	One Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
CC	Two Common cavities: With solenoid clearance C-10-2 (P in nose) Available 03-21 stations with spacing code 3; Available 02-14 stations with spacing code 5. Not available in combination with isolation options.
S	One Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PJ	Available with spacing code 3
PA...PF	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

TA...TJ	Available with spacing code 3
TA...TF	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Cavity is located left of the isolation.
R	Cavity is located right of the isolation.
D	Two cavities, one each side of isolation. (Use with cavity option codes C or S only.)

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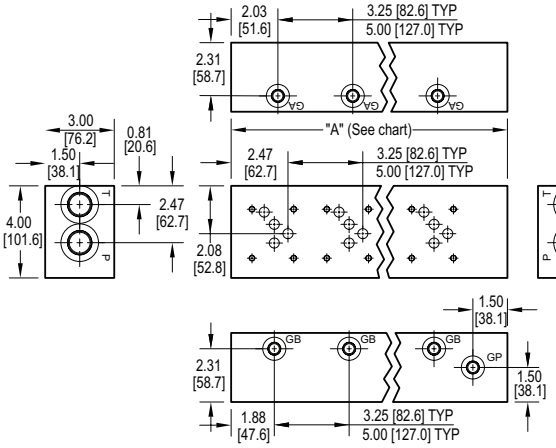
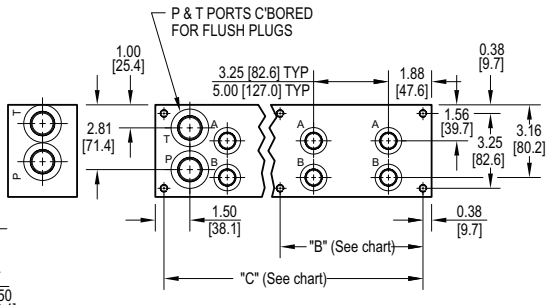
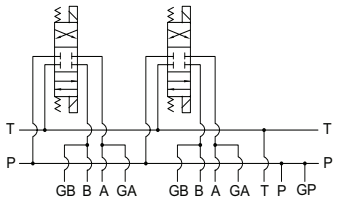
D05 Standard Flow Bottom Ported Manifold



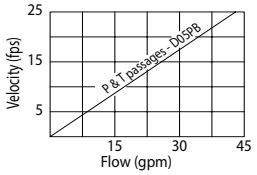
Mounting hardware is NOT supplied.



Parallel Circuit



Flow Curve



Rated flow 25 gpm @ 15 fps

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.56 [14.3] DP	0.38-16 UNC x 0.69 [17.5] DP
B, M, T	M6 ISO 6H x 0.56 [14.3] DP	M10 ISO 6H x 0.69 [17.5] DP

No. of stations	01	02	03	04	05	06	07	08	09	10
"A" length - inch [mm] Code 3 spacing	5.00 [127.0]	8.25 [209.6]	11.50 [292.1]	14.75 [374.7]	18.00 [457.2]	21.25 [539.8]	24.50 [622.3]	27.75 [704.9]	31.00 [787.4]	34.25 [870.0]
"B" dim - inch [mm] Code 3 spacing	--	--	--	--	--	9.63 [244.5]	9.63 [244.5]	12.88 [327.0]	12.88 [327.0]	16.13 [409.6]
"C" dim - inch [mm] Code 3 spacing	4.25 [108.0]	7.50 [190.5]	10.75 [273.1]	14.00 [355.6]	17.25 [438.2]	20.50 [520.7]	23.75 [603.3]	27.00 [685.8]	30.25 [768.4]	33.50 [850.9]
apx. weight alum lb [kg]	6 [3]	10 [4]	14 [6]	18 [8]	22 [10]	26 [12]	29 [13]	33 [15]	37 [17]	41 [19]
apx. weight ferrous lb [kg]	16 [7]	26 [12]	36 [16]	46 [21]	56 [25]	66 [30]	76 [35]	87 [39]	97 [44]	107 [48]

No. of stations	02	03	04	05	06	07	08	09	10
"A" length - inch [mm] Code 5 spacing	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]	35.00 [889.0]	40.00 [1016.0]	45.00 [1143.0]	50.00 [1270.0]
"B" dim - inch [mm] Code 5 spacing	--	--	9.00 [228.6]	14.00 [355.6]	14.00 [355.6]	14.00 [355.6]	19.00 [482.6]	19.00 [482.6]	24.00 [609.6]
"C" dim - inch [mm] Code 5 spacing	9.25 [235.0]	14.25 [362.0]	19.25 [489.0]	24.25 [616.0]	29.25 [743.0]	34.25 [870.0]	39.25 [997.0]	44.25 [1124.0]	49.25 [1251.0]
apx. weight alum lb [kg]	12 [5]	18 [8]	24 [11]	30 [14]	36 [16]	42 [19]	48 [22]	54 [24]	60 [27]
apx. weight ferrous lb [kg]	31 [14]	47 [21]	62 [28]	78 [35]	94 [42]	109 [49]	125 [57]	140 [64]	156 [71]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads

For **coating options** see pages 245-246.

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

PB	Parallel Circuit Standard Flow Bottom Ported

No. of Stations

Aluminum	
01...10	Available with spacing code 3
02...10	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...10	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	G*
P	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-4
B	BSPP • ISO 1179	0.75	0.50	0.25
M	ISO • ISO 6149	M27	M18	M10
T	BSPT • ISO 7	0.75	0.50	0.25

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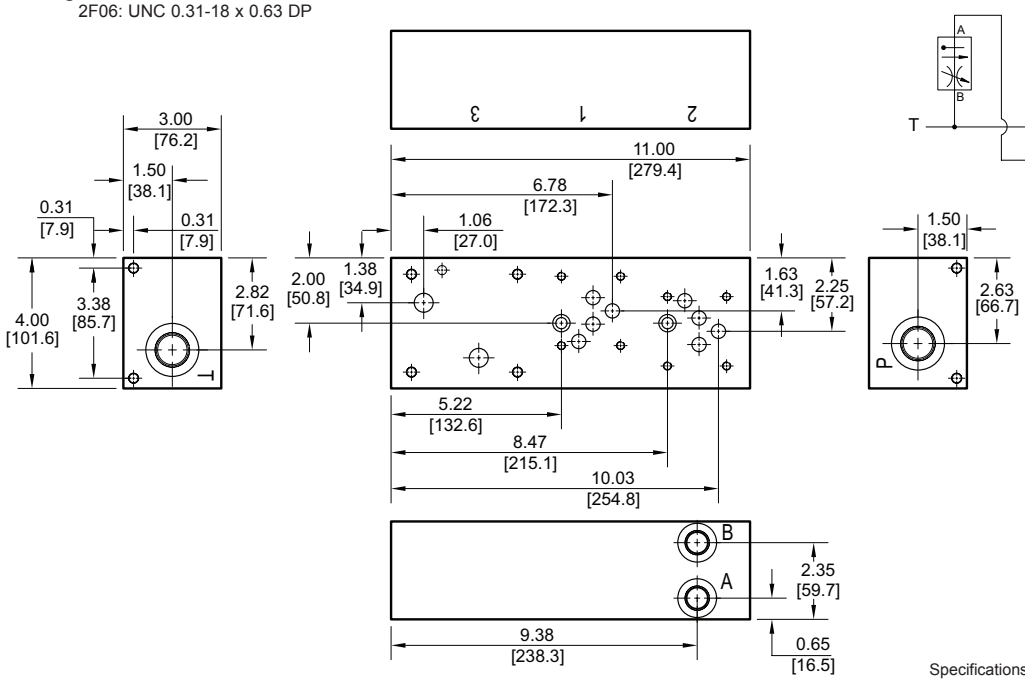
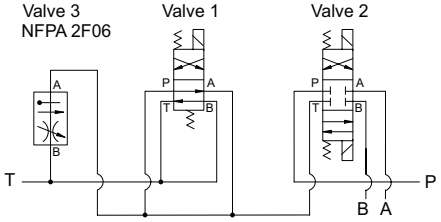
D05 Tank Line Feed Circuit Manifold

D05 Directional Valves
2F06 Flow Control Valve
Valve mtg: D05: UNC 0.25-20 x 0.50 DP
2F06: UNC 0.31-18 x 0.63 DP



"Meter Out" Tank Feed Circuit



Manifold Mounting:

Manifold bracket mounting kit is supplied. See page 64 for itemized mounting kit list.

Two SHCS clearance holes are provided for optional 5/16 (M8) SHCS mounting. Screws are user provided; miminum 3.00 in [75mm] long GR8 SHCS should be used.

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Ordering Information

Material	Valve Pattern	Circuit	Port Threads

For **coating options** see pages 245-246.

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Flow Control Pattern (REF):
2F06 Pattern
ISO 6263-06-05
NFPA T3.5.1-2F06

Circuit

TF	Tank Line Feed Circuit

Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.50
S	SAE • ISO 11926	-12	-8

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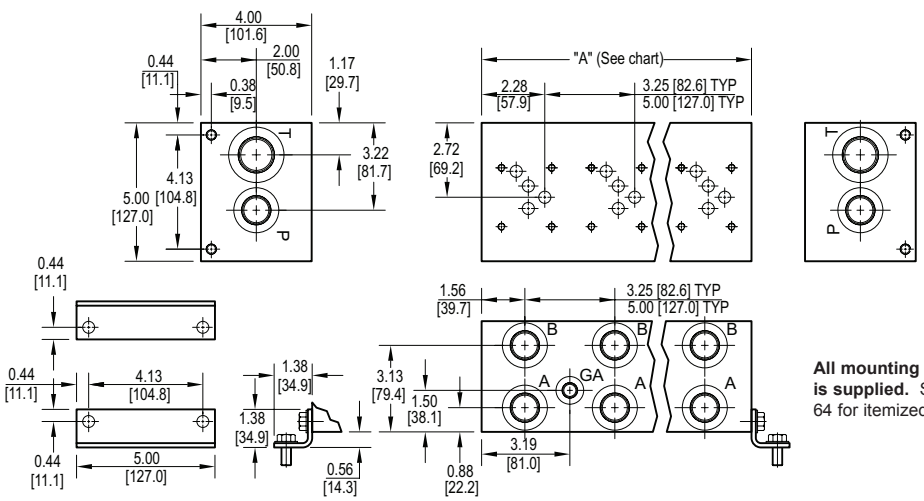
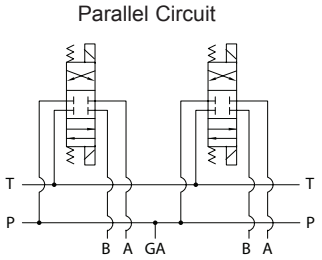
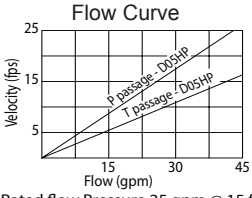
D05 High Flow Parallel Circuit Manifold







Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

All mounting hardware is supplied. See page 64 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
"A" length (code 3 spa.) inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]	26.00 [660.4]	29.25 [743.0]	32.50 [825.5]	35.75 [908.1]	39.00 [990.6]	42.25 [1073.2]	45.50 [1155.7]	48.75 [1238.3]	52.00 [1320.8]	55.25 [1403.4]	58.50 [1485.9]	61.75 [1568.5]	65.00 [1651.0]	68.25 [1733.6]
apx. weight alum lb [kg]	7 [3]	12 [5]	17 [8]	22 [10]	27 [12]	33 [15]	38 [17]	43 [20]	48 [22]	53 [24]	58 [26]	63 [29]	68 [31]	74 [34]	79 [36]	84 [38]	89 [40]	94 [43]	99 [45]	104 [47]	110 [50]
apx. weight ferrous lb [kg]	19 [9]	38 [17]	57 [26]	75 [34]	85 [39]	113 [51]	132 [60]	151 [69]	170 [77]	189 [86]	208 [94]	226 [103]	245 [111]	264 [120]	283 [128]	302 [137]	320 [145]	339 [154]	358 [162]	377 [171]	396 [180]
"A" length (code 5 spa.) inch [mm]	--	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]	28.25 [717.6]	33.25 [844.6]	38.25 [971.6]	43.25 [1098.6]	48.25 [1225.6]	53.25 [1352.6]	58.25 [1479.6]	63.25 [1606.6]	68.25 [1733.6]							
apx. weight alum lb [kg]	--	18 [8]	26 [12]	33 [15]	41 [19]	48 [22]	56 [25]	63 [29]	71 [32]	79 [36]	87 [39]	95 [43]	103 [47]	111 [50]							
apx. weight ferrous lb [kg]	--	48 [22]	77 [35]	106 [48]	135 [61]	164 [74]	188 [85]	222 [101]	251 [114]	280 [127]	309 [140]	338 [153]	367 [166]	396 [180]							

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

* Length of 01 station with relief cavity is 4.50 [114.3]. Gauge port not available on 01 station.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...21	Available with spacing code 3
02...14	Available with spacing code 5
Ductile Iron	
01...21	Available with spacing code 3
02...14	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options

See next page for available options and ordering codes.

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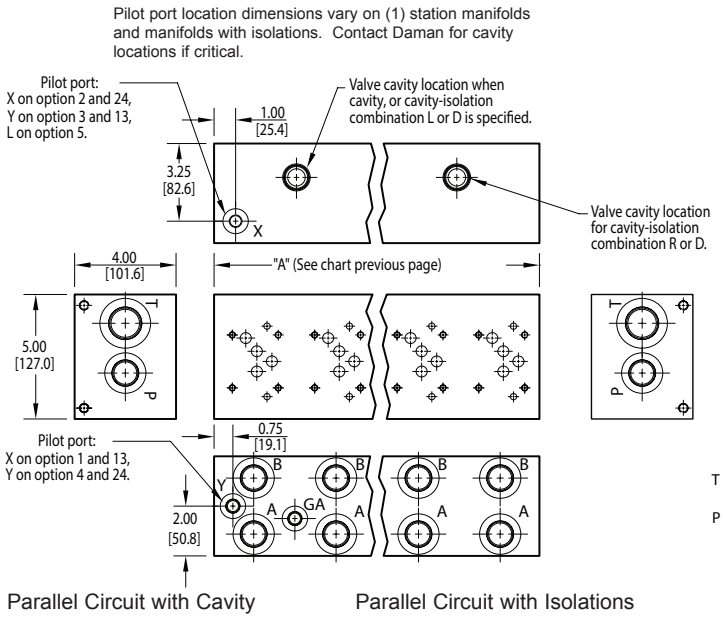
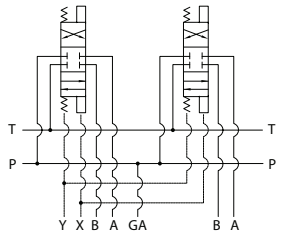
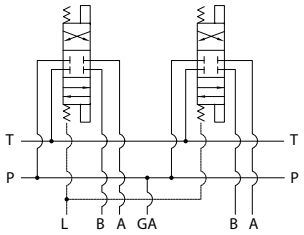
Options - D05 High Flow Parallel Manifold



Parallel Circuit with X & Y



Parallel Circuit with L



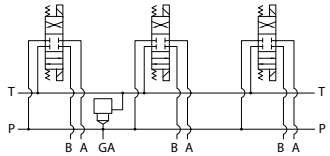
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-17
J	09 & 10	10-18
5.00 [127.0] spacing		
A	01 & 02	02-07
B	02 & 03	03-08
C	03 & 04	04-09
D	04 & 05	05-10
E	05 & 06	06-11
F	06 & 07	07-12

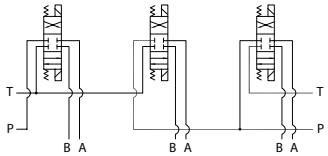
* Stations are numbered left to right.

Parallel Circuit with Cavity



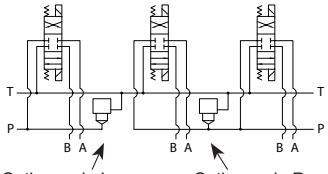
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if pilot ports not required		
1	X port (USA std) NFPA T3.5.1-D05 Alt-B	Pilot ports available from 01-11 stations (3.25 spacing); 02-07 stations (5.00 spacing)
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B	
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B	
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A	
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A	
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A	
5	L ports Proportional valves	

Cavity

Omit if cavity not required	
C	Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required	
PA...PJ	Available with spacing code 3
PA...PF	Available with spacing code 5

Tank Isolation

Omit if T isolation not required	
TA...TJ	Available with spacing code 3
TA...TF	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

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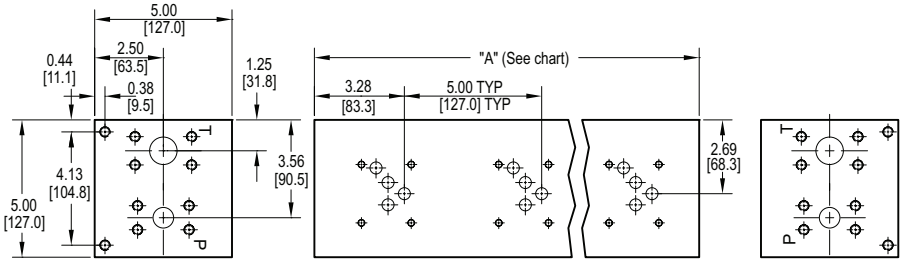
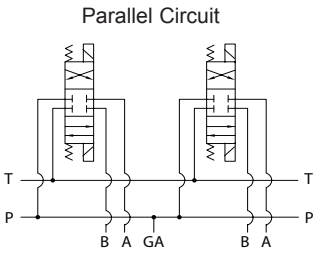
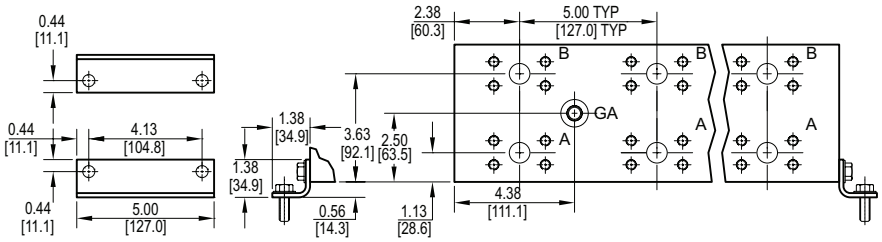
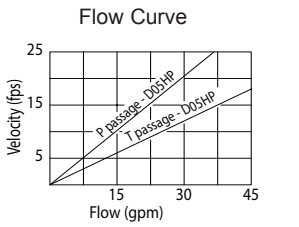
D05 High Flow Parallel Circuit Manifold - Flange Ports









Rated flow Pressure 21 gpm @ 15 fps
Rated flow Tank 37 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length inch [mm]	5.00 [127.0]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]	35.00 [889.0]	40.00 [1016.0]	45.00 [1143.0]	50.00 [1270.0]
apx. weight alum lb [kg]	13 [5.7]	25 [11]	38 [17]	50 [23]	63 [28]	75 [34]	88 [40]	100 [45]	112 [51]	125 [57]
apx. weight ferrous lb [kg]	34 [15.3]	68 [31]	101 [46]	135 [61]	169 [77]	203 [92]	236 [107]	270 [123]	304 [138]	338 [153]

* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

All mounting hardware is supplied. See page 64 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port	Pilot Ports *
F	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-6** SAE J1926
F / M	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP	ISO 6162 Type I - metric	NONE	**M14** ISO 6149

* Pilot ports are optional. See options on next page.

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Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

HP	Parallel Circuit High Flow

Valve Spacing

5	5.00 inch 127.0 mm

Options

See next page for available options and ordering codes.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

No. of Stations

Aluminum	
01...10	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 5

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	0.75 CODE 61	1.00 CODE 61

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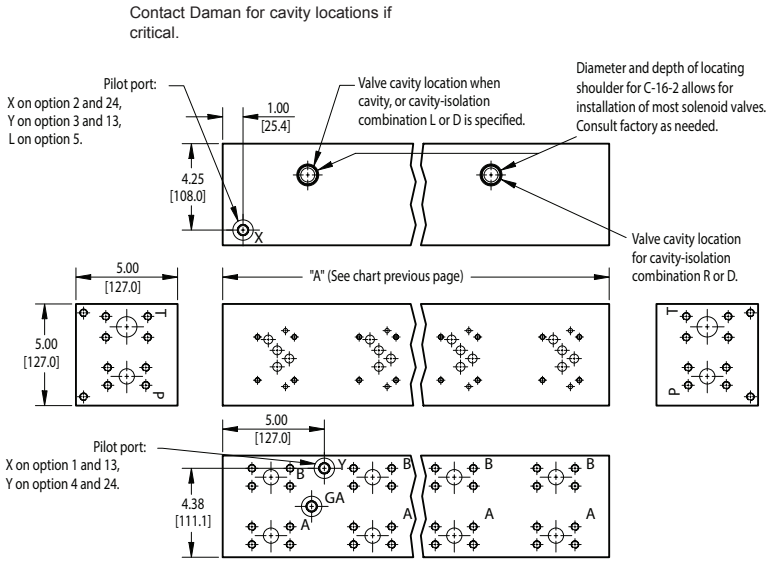
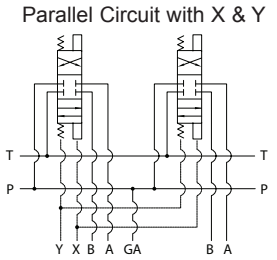
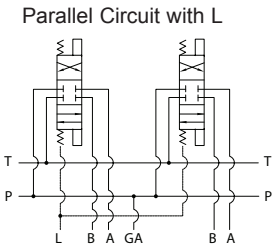
Options - D05 High Flow Parallel Manifold Flange Ports







ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

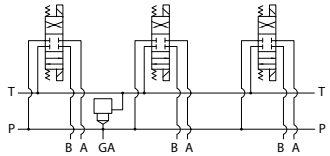
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-09
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10

* Stations are numbered left to right.

NOTES:

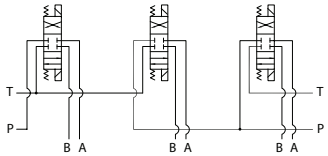
1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Cavity



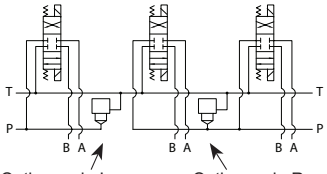
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

Ordering Information

. . . /	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Pilot Ports

Omit if pilot ports not required

1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

Pilot ports available from 01-08 stations

Cavity

Omit if cavity not required

C	Common cavity: C-16-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required

PA...PH	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

TA...TH	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

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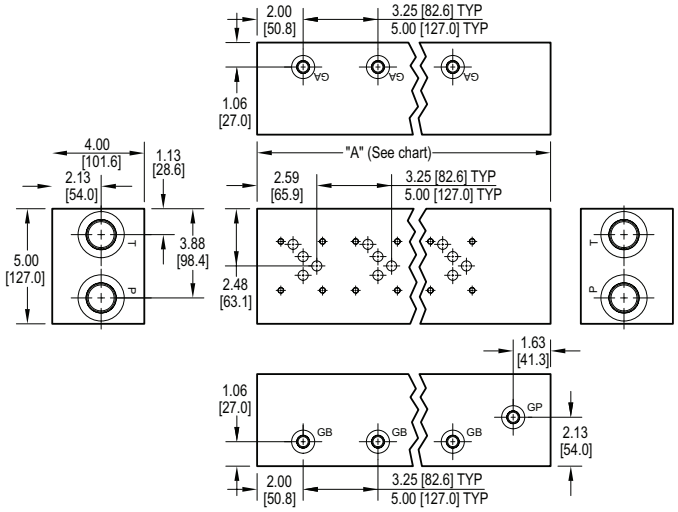
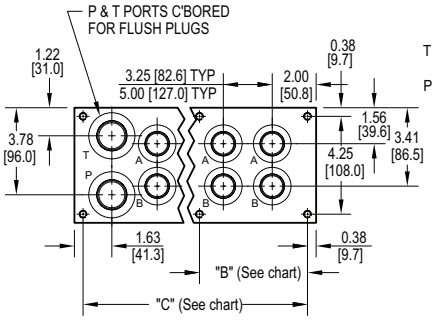
D05 High Flow Bottom Ported Manifold

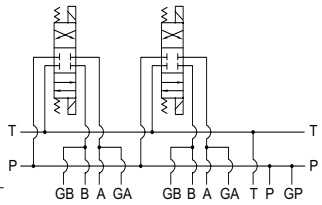


Mounting hardware is NOT supplied.

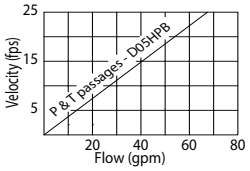


Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.63 [16] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M6 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 1.00 [25.4] DP

Parallel Circuit



Flow Curve



Rated flow 41 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07	08	09	10
"A" length (code 3 spa.) inch [mm]	5.75 [146.1]	9.00 [228.6]	12.25 [311.2]	15.50 [393.7]	18.75 [476.3]	22.00 [558.8]	25.25 [641.4]	28.50 [723.9]	31.75 [806.5]	35.00 [889.0]
"B" dim (code 3 spa.) inch [mm]	--	--	--	--	--	9.75 [247.7]	13.00 [330.2]	13.00 [330.2]	16.25 [412.8]	16.25 [412.8]
"C" dim (code 3 spa.) inch [mm]	5.00 [127.0]	8.25 [209.6]	11.50 [292.1]	14.75 [374.7]	18.00 [457.2]	21.25 [539.8]	24.50 [622.3]	27.75 [704.9]	31.00 [787.4]	34.25 [870.0]
apx. weight alum lb [kg]	12 [5]	18 [8]	25 [11]	31 [14]	38 [17]	44 [20]	51 [23]	57 [26]	64 [29]	70 [32]
apx. weight ferrous lb [kg]	30 [14]	47 [21]	64 [29]	81 [37]	98 [44]	114 [52]	131 [60]	148 [67]	165 [75]	182 [83]

No. of stations	02	03	04	05	06
"A" length (code 5 spa.) inch [mm]	10.75 [273.1]	15.75 [400.1]	20.75 [527.1]	25.75 [654.1]	30.75 [781.1]
"B" dim (code 5 spa.) inch [mm]	--	--	9.38 [238.1]	9.38 [238.1]	14.38 [365.1]
"C" dim (code 5 spa.) inch [mm]	10.00 [254.0]	15.00 [381.0]	20.00 [508.0]	25.00 [635.0]	30.00 [762.0]
apx. weight alum lb [kg]	22 [10]	32 [14]	42 [19]	52 [23]	62 [28]
apx. weight ferrous lb [kg]	56 [25]	82 [37]	108 [49]	134 [61]	160 [73]

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

HPB	Parallel Circuit High Flow Bottom Ported

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Options

See next page for available options and ordering codes.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Infomation

No. of Stations

Aluminum	
01...10	Available with spacing code 3
02...06	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...06	Available with spacing code 5

Port Threads		P & T	A & B	X,Y,L optional	G*
P	NPTF • ANSI B1.20.3	1.00	0.75	0.38	0.25
S	SAE • ISO 11926	-16	-12	-6	-4
B	BSPP • ISO 1179	1.00	0.75	0.38	0.25
M	ISO • ISO 6149	M33	M27	M14	M10
T	BSPT • ISO 7	1.00	0.75	0.38	0.25

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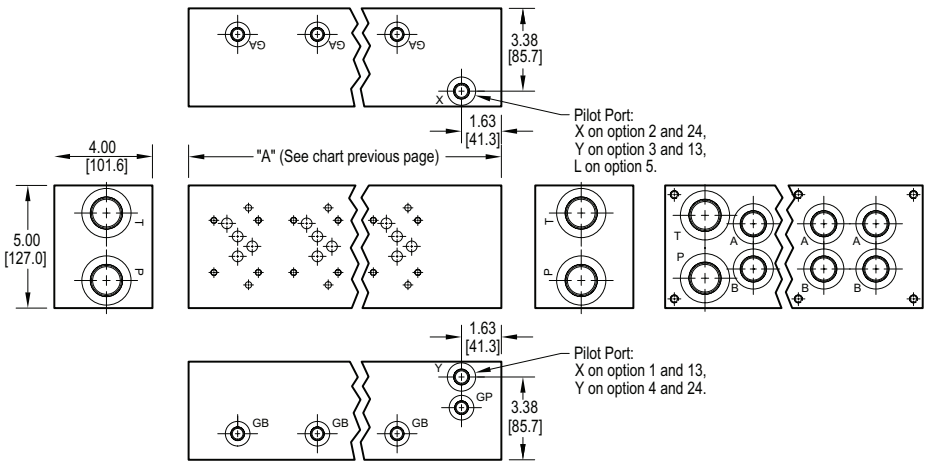
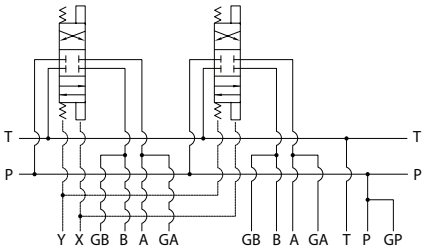
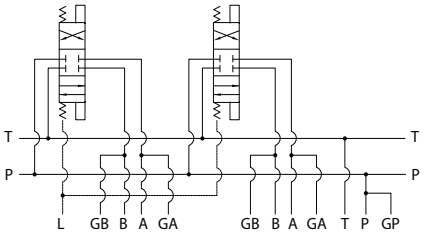
Options - D05 High Flow Parallel Manifold Bottom Ported



Parallel Circuit with X & Y



Parallel Circuit with L



Ordering Information

Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

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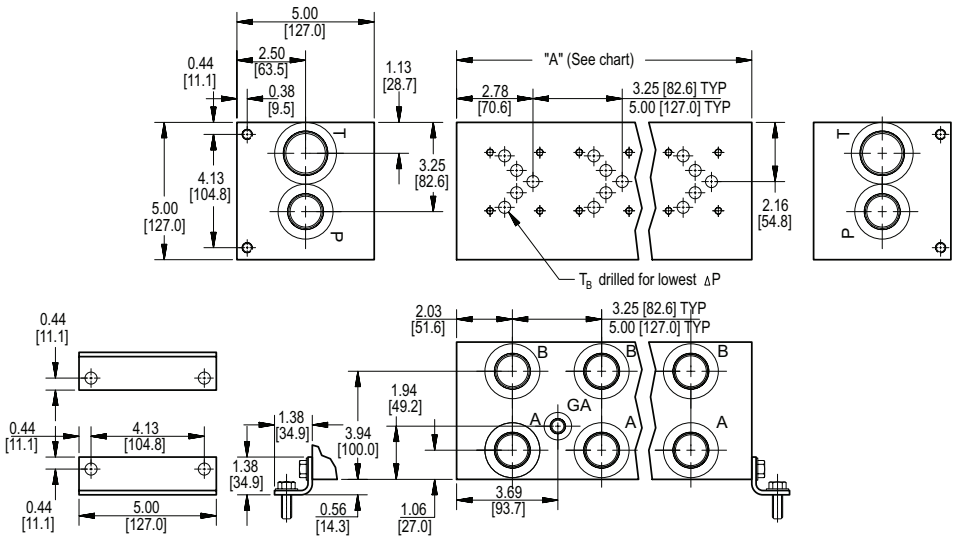
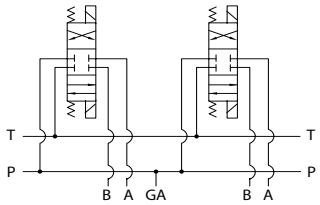
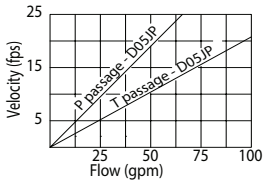
D05 Extra High Flow Parallel Circuit Manifold



Parallel Circuit



Flow Curve



Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length (code 3 spa.) inch [mm]	4.25 [108.0]	7.50 [190.5]	10.75 [273.1]	14.00 [355.6]	17.25 [438.2]	20.50 [520.7]	23.75 [603.3]	27.00 [685.8]	30.25 [768.4]	33.50 [850.9]
apx. weight alum lb [kg]	10 [5]	18 [8]	26 [12]	35 [16]	43 [20]	51 [23]	59 [27]	67 [30]	75 [34]	83 [38]
apx. weight ferrous lb [kg]	27 [12]	48 [22]	69 [31]	91 [41]	112 [51]	133 [60]	154 [70]	175 [79]	196 [89]	217 [99]
"A" length (code 5 spa.) inch [mm]	--	9.25 [235.0]	14.25 [362.0]	19.25 [489.0]	24.25 [616.0]	29.25 [743.0]				
apx. weight alum lb [kg]	--	23 [10]	35 [16]	48 [22]	60 [27]	73 [33]				
apx. weight ferrous lb [kg]	--	60 [27.2]	92 [41.8]	125 [56.8]	157 [71.3]	190 [86.3]				

* Length of 01 station with relief cavity is 5.50 [139.7]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

JP	Parallel Circuit Extra High Flow

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Options

See next page for available options and ordering codes.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

No. of Stations

Aluminum	
01...10	Available with spacing code 3
02...06	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 3
02...06	Available with spacing code 5

Port Threads		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25
S	SAE • ISO 11926	-16	-20	-6	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	none
M	ISO • ISO 6149	M33	M42	M14	none
T	BSPT • ISO 7	1.00	1.25	0.38	none

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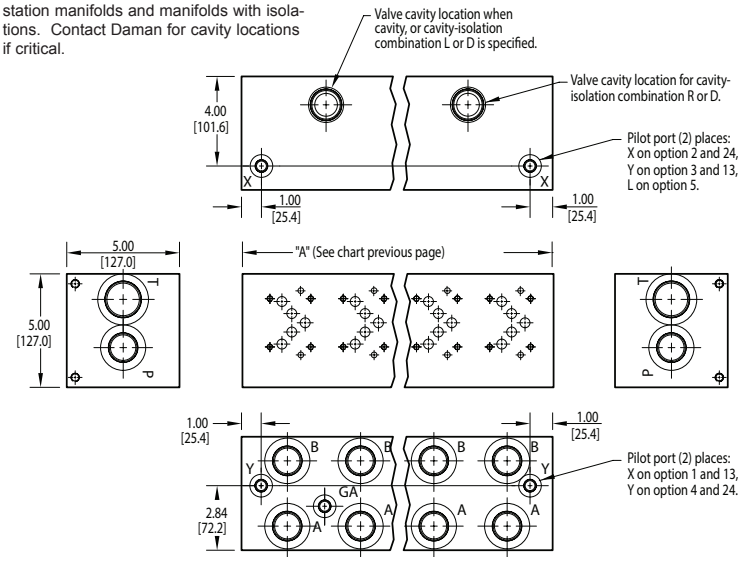
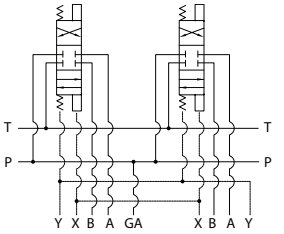
Options - D05 Extra High Flow Parallel Manifold

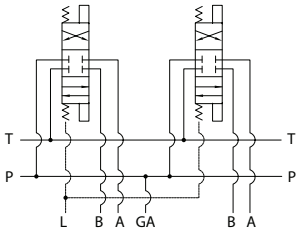
Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



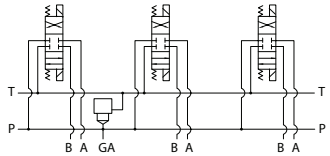
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10
5.00 [127.0] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

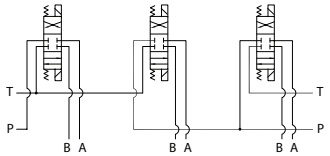
* Stations are numbered left to right.

Parallel Circuit with Cavity



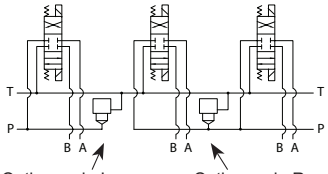
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

.../	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if pilot ports not required	
1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5*	L ports Proportional valves

Cavity

Omit if cavity not required	
C	Common cavity: With solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Pressure Isolation

Omit if P isolation not required	
PA...PJ	Available with spacing code 3
PA...PE	Available with spacing code 5

Tank Isolation

Omit if T isolation not required	
TA...TJ	Available with spacing code 3
TA...TE	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

* Cannot be combined with the following other pilot port options: /3, /13, /2, or /24

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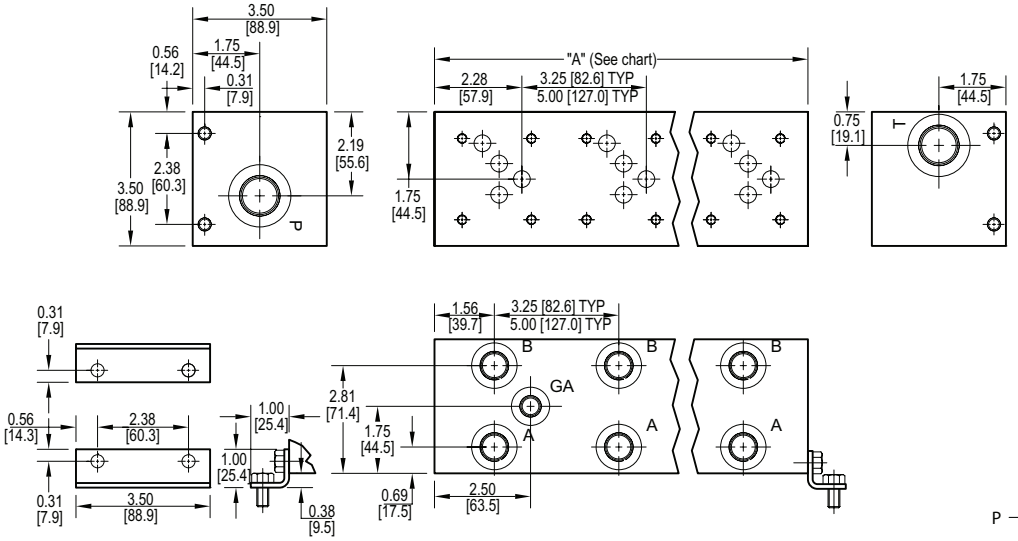
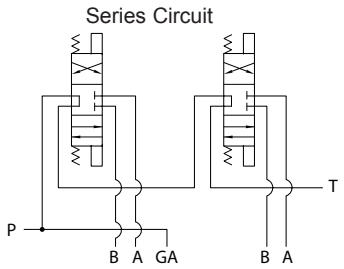
D05 Standard Flow Series Circuit Manifold





No. of stations	02	03	04
"A" length (code 3 spa.) inch [mm]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]
apx. weight alum lb [kg]	8 [4]	11 [5]	14 [7]
apx. weight ferrous lb [kg]	17 [8]	26 [12]	34 [15]
"A" length (code 5 spa.) inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
apx. weight alum lb [kg]	9 [4]	15 [7]	20 [9]
apx. weight ferrous lb [kg]	22 [10]	36 [16]	49 [22]

All mounting hardware is supplied, except for stainless.
See page 64 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.31-18 UNC x 0.44 [11.1] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M8 ISO 6H x 0.44 [11.1] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa
S*	Stainless Steel - 17-4 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

*All stainless steel products are passivated.

Valve Pattern

D05	ISO-4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

S	Series Circuit Standard Flow

No. of Stations

Aluminum	
02...04	Available with spacing code 3
02...04	Available with spacing code 5
Ductile Iron	
02...04	Available with spacing code 3
02...04	Available with spacing code 5
Stainless Steel	
02...04	Available with spacing code 3
02...04	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P & T	A & B	GA
P*	NPTF • ANSI B1.20.3	0.75	0.50	0.25
S	SAE • ISO 11926	-12	-8	-6
B	BSPP • ISO 1179	0.75	0.50	none
M	ISO • ISO 6149	M27	M18	none
T*	BSPT • ISO 7	0.75	0.50	none

* Pipe ports in stainless can experience galling

Options

See next page for available options and ordering codes.

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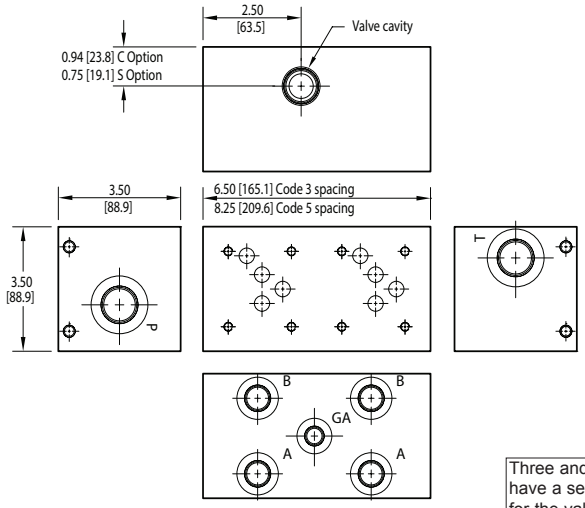
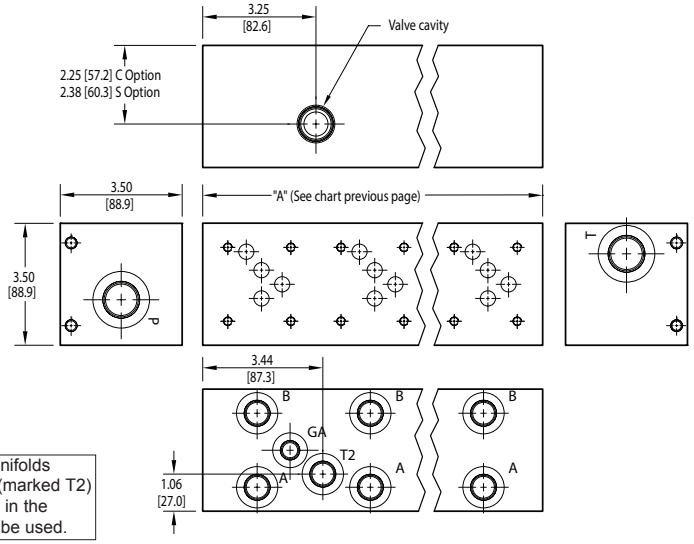
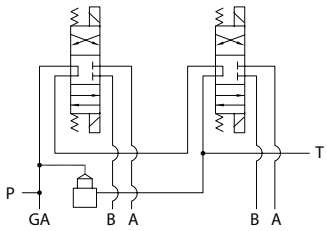
Options - D05 Standard Flow Series Manifold



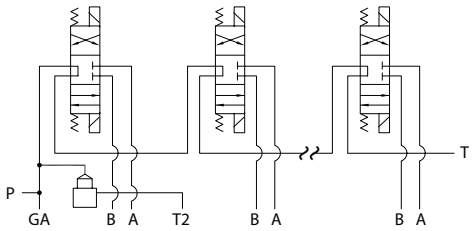


Three and Four station manifolds have a separate side port (marked T2) for the valve. Valve with P in the nose, T out the side, must be used.

Series Circuit with Cavity - (2) station



Series Circuit with Cavity - (3) or (4) station



Ordering Information

... /	Cavity

Cavity	
Omit if cavity not required.	
C	Common cavity: 2-station has solenoid clearance. 3 & 4 station does not have solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Port Code (ref.)	T2 Port Size 3 and 4 Station Manifold
P	0.50 NPTF • ANSI B1.20.3
S	-8 SAE • ISO 11926
B	0.50 BSPP • ISO 1179
M	M18 ISO • ISO 6149
T	0.50 BSPT • ISO 7

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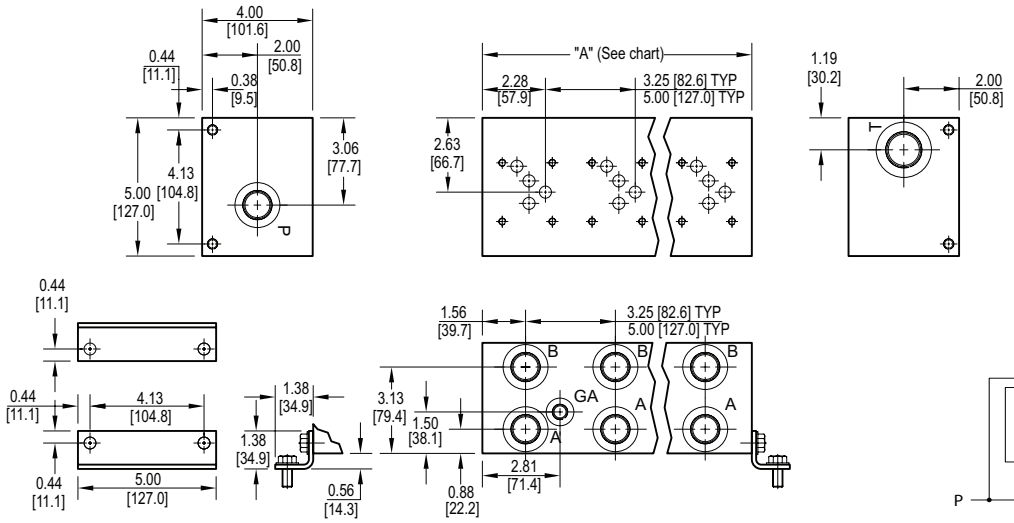
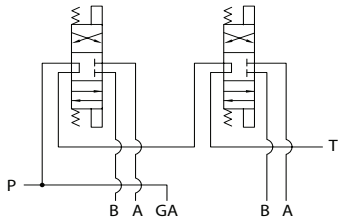
D05 High Flow Series Circuit Manifold



Series Circuit



No. of stations	02	03	04
"A" length (code 3 spa.) inch [mm]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]
apx. weight alum lb [kg]	12 [5]	17 [8]	22 [10]
apx. weight ferrous lb [kg]	38 [17]	57 [26]	75 [34]
"A" length (code 5 spa.) inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]
apx. weight alum lb [kg]	18 [8]	26 [12]	33 [15]
apx. weight ferrous lb [kg]	48 [22]	77 [35]	106 [48]

All mounting hardware is supplied.
See page 64 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Circuit

HS	Series Circuit High Flow

No. of Stations

Aluminum	
02...04	Available with spacing code 3
02...04	Available with spacing code 5
Ductile Iron	
02...04	Available with spacing code 3
02...04	Available with spacing code 5

Valve Spacing

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

Port Threads

		P,A,B	T	X,Y,L optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options

See next page for available options and ordering codes.

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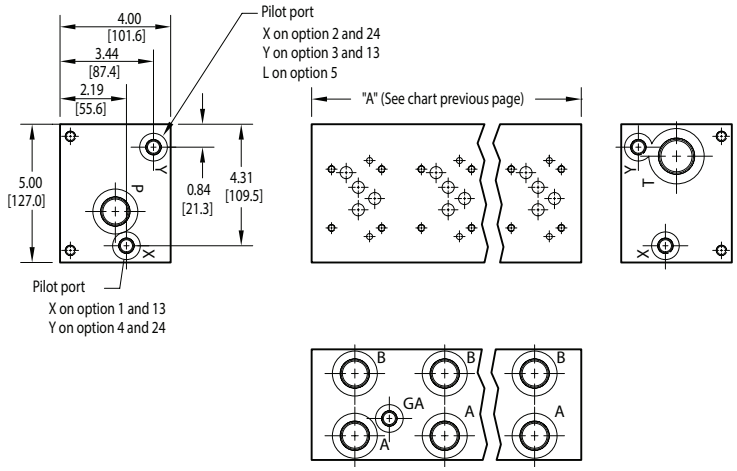
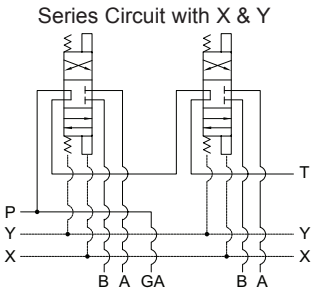
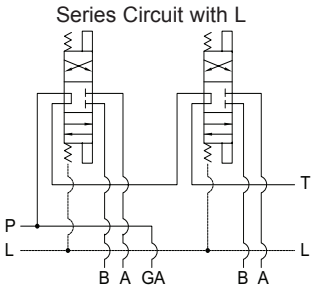
Options - D05 High Flow Series Manifold







Ordering Information

... /	Pilot Ports

Pilot Ports	
Omit if pilot ports not required	
1	X port (USA std) NFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFPA T3.5.1-D05 Alt-A
5	L ports Proportional valves

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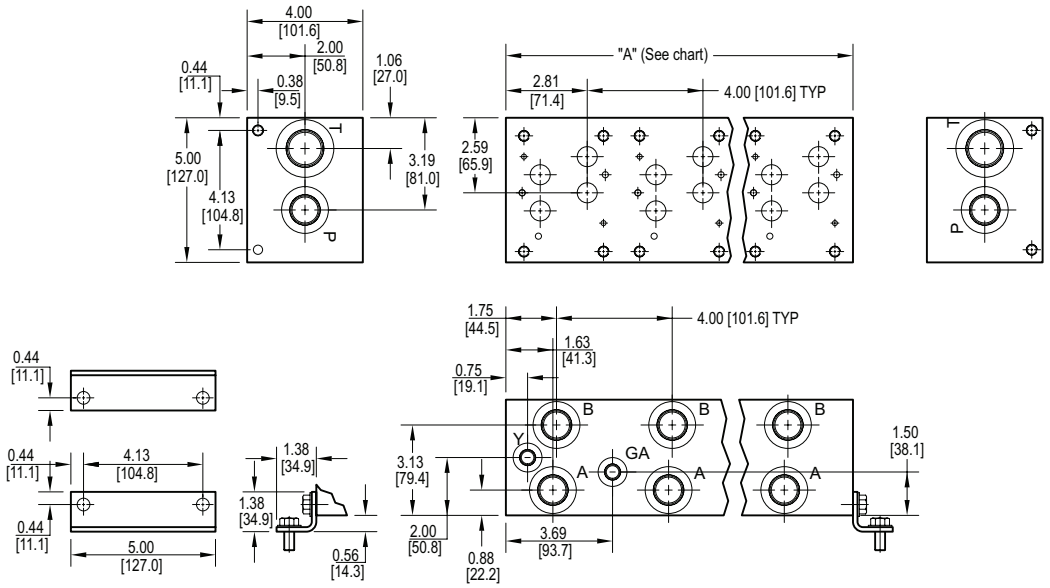
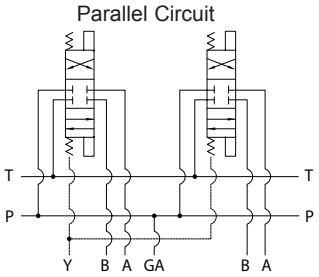
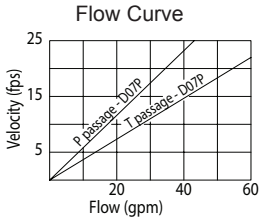
D07 Standard Flow Parallel Circuit Manifold







Rated flow Pressure 25 gpm @ 15 fps
Rated flow Tank 41 gpm @ 15 fps

All mounting hardware is supplied.
See page 65 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08
"A" length (code 4 spa.) inch [mm]	4.00 [101.6]	8.00 [203.2]	12.00 [304.8]	16.00 [406.4]	20.00 [508.0]	24.00 [609.6]	28.00 [711.2]	32.00 [812.8]
apx. weight alum lb [kg]	6 [3]	14 [6]	22 [10]	30 [14]	38 [17]	46 [21]	52 [24]	60 [27]
apx. weight ferrous lb [kg]	24 [11]	46 [21]	69 [31]	90 [41]	114 [52]	135 [61]	158 [72]	180 [82]

* Length of 01 sta. with "C" relief cavity 5.50 [139.7]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.38-16 UNC x 0.75 [19] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M10 ISO 6H x 0.75 [19] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit

P	Parallel Manifold Standard Flow

No. of Stations

Aluminum	
01...08	Available with spacing code 4
Ductile Iron	
01...08	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25	0.25
S	SAE • ISO 11926	-12	-16	-6	-4	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	0.25	none
M	ISO • ISO 6149	M27	M33	M14	M10	none
T	BSPT • ISO 7	0.75	1.00	0.38	0.25	none

Options

See next page for available options and ordering codes.

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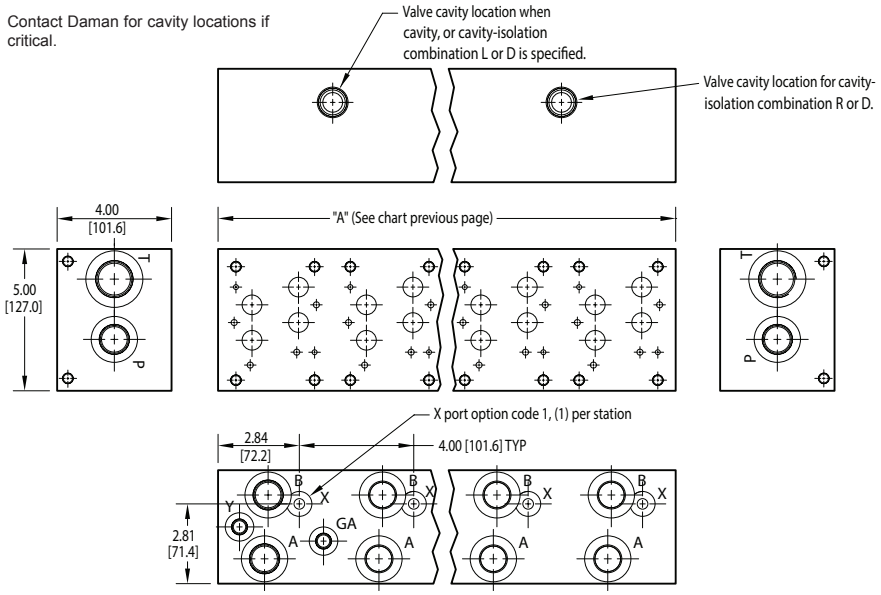
Options - D07 Standard Flow Parallel Manifold

Contact Daman for cavity locations if critical.



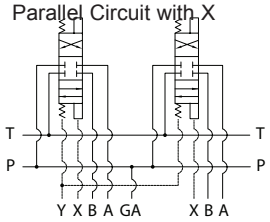
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

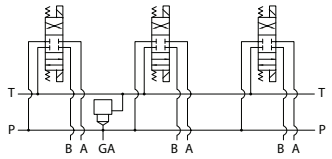
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

Parallel Circuit with X

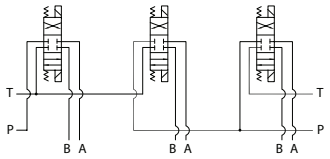


Parallel Circuit with Cavity



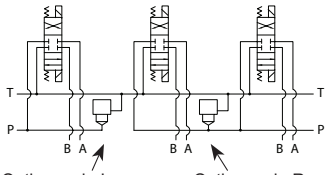
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-07-06 NFPA T3.5.1-D07

Cavity

Omit if cavity not required

C	Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 4

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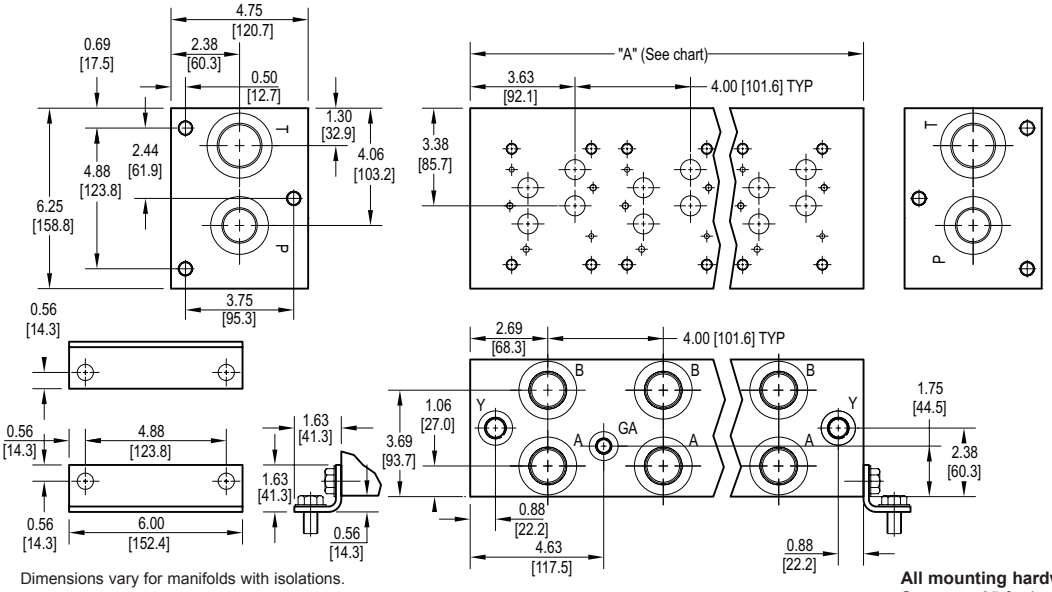
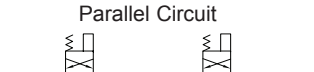
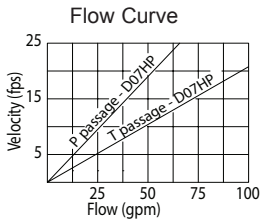
D07 High Flow Parallel Circuit Manifold



Dimensions vary for manifolds with isolations.





Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

All mounting hardware is supplied.
See page 65 for itemized list.

No. of stations	* 01	02	03	04	05	06	07	08
"A" length (code 4 spa.) inch [mm]	5.63 [142.9]	9.63 [244.5]	13.63 [346.1]	17.63 [447.7]	21.63 [549.3]	25.63 [650.9]	29.63 [752.5]	33.63 [854.1]
apx. weight alum lb [kg]	17 [8]	29 [13]	41 [18]	52 [24]	64 [29]	76 [35]	88 [40]	100 [45]
apx. weight ferrous lb [kg]	43 [20]	74 [34]	105 [47]	136 [62]	167 [76]	198 [90]	228 [103]	260 [118]

* Length of 01 station with Sun relief cavity 7.00 [177.8]. Length of 01 station with Common relief cavity 6.75 [171.5]. Gauge port not available on 01 station.

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22.3] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech information

No. of Stations

Aluminum	
01...08	Available with spacing code 4
Ductile Iron	
01...08	Available with spacing code 4

Circuit

HP	Parallel Circuit High Flow

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.50	0.25	0.25
S	SAE • ISO 11926	-16	-20	-8	-4	-6
B	BSPP • ISO 1179	1.00	1.25	0.50	0.25	none
M	ISO • ISO 6149	M33	M42	M16	M10	none
T	BSPT • ISO 7	1.00	1.25	0.50	0.25	none

Options

See next page for available options and ordering codes.

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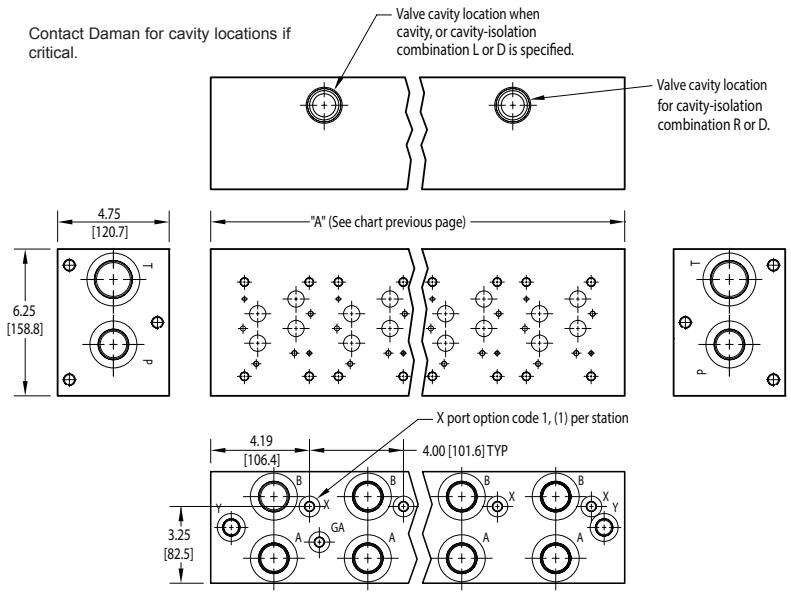
Options - D07 High Flow Parallel Manifold



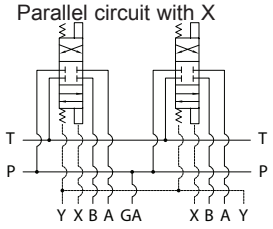
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

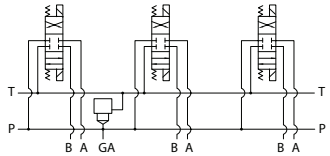
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

* Stations are numbered left to right.

Parallel circuit with X

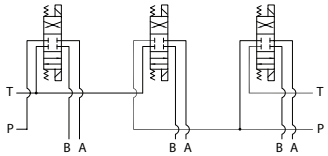


Parallel Circuit with Cavity



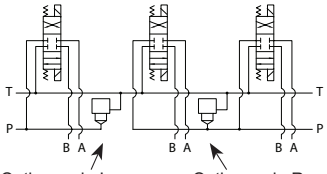
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-07-06 NFPA T3.5.1-D07

Cavity

Omit if relief not required

C	Common cavity: With solenoid clearance. C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 4

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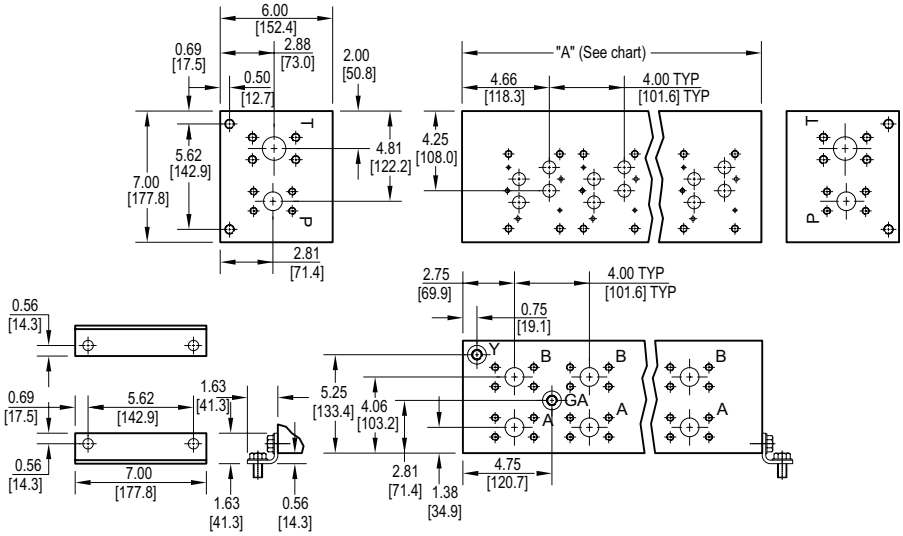
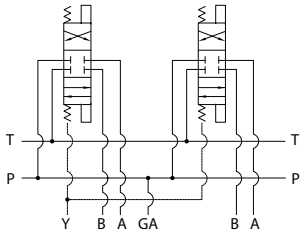
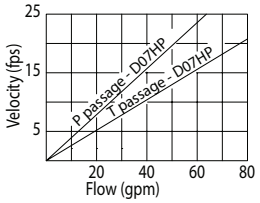
D07 High Flow Parallel Circuit Manifold - Flange Ports



Parallel Circuit



Flow Curve



Rated flow Pressure 37 gpm @ 15 fps
Rated flow Tank 57 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08
"A" length inch [mm]	6.63 [168.3]	10.63 [269.9]	14.63 [371.5]	18.63 [473.1]	22.63 [574.7]	26.63 [676.3]	30.63 [777.9]	34.63 [879.5]
apx. weight alum lb [kg]	28 [12.6]	45 [20]	61 [28]	78 [36]	95 [43]	112 [51]	129 [59]	145 [66]
apx. weight ferrous lb [kg]	75 [34]	120 [55]	166 [75]	211 [96]	257 [116]	302 [137]	344 [156]	389 [176]

* Length of 01 station with relief cavity 7.13 [181.0]. Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA Port	Y Port	X Port *
F	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-6** SAE J1926	**-4** SAE J1926
F / M	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	**M14** ISO 6149	**M10** ISO 6149

* X port is optional. See options on next page.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum or Ductile Iron	
01...08	Available with spacing code 4

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.00 CODE 61	1.25 CODE 61

Options

See next page for available options and ordering codes.

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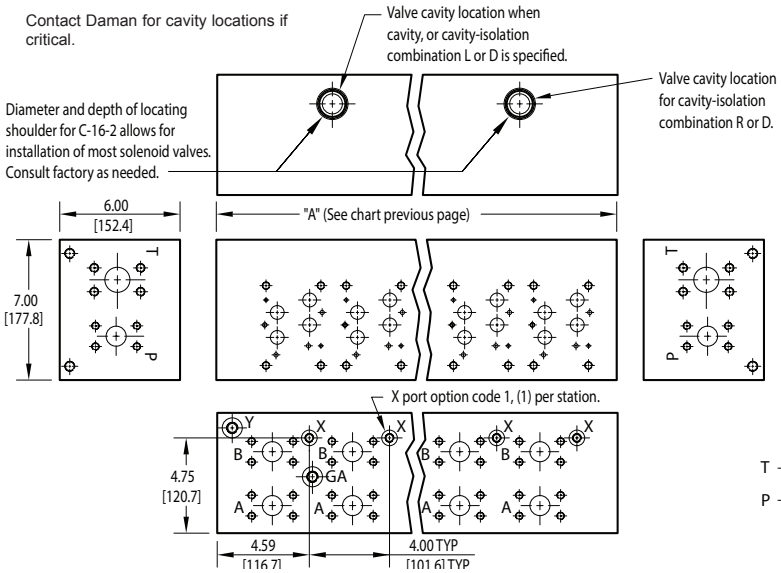
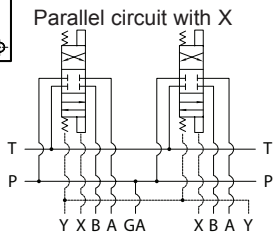
Options - D07 High Flow Parallel Manifold - Flange Ports





ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08

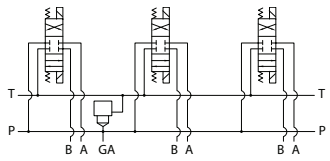
* Stations are numbered left to right.

NOTES:

1) The GA port is not available on a (1) station manifold.

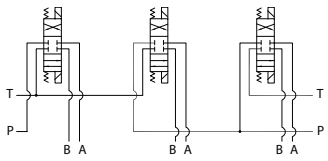
2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Cavity



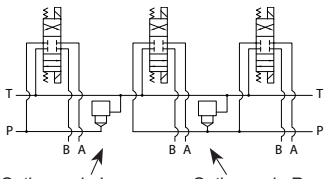
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

Ordering Information

. . . /	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Cavity

Omit if cavity not required

C	Common cavity: C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TG	Available with spacing code 4

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-07-06 NFPA T3.5.1-D07

Pressure Isolation

Omit if P isolation not required

PA...PG	Available with spacing code 4

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

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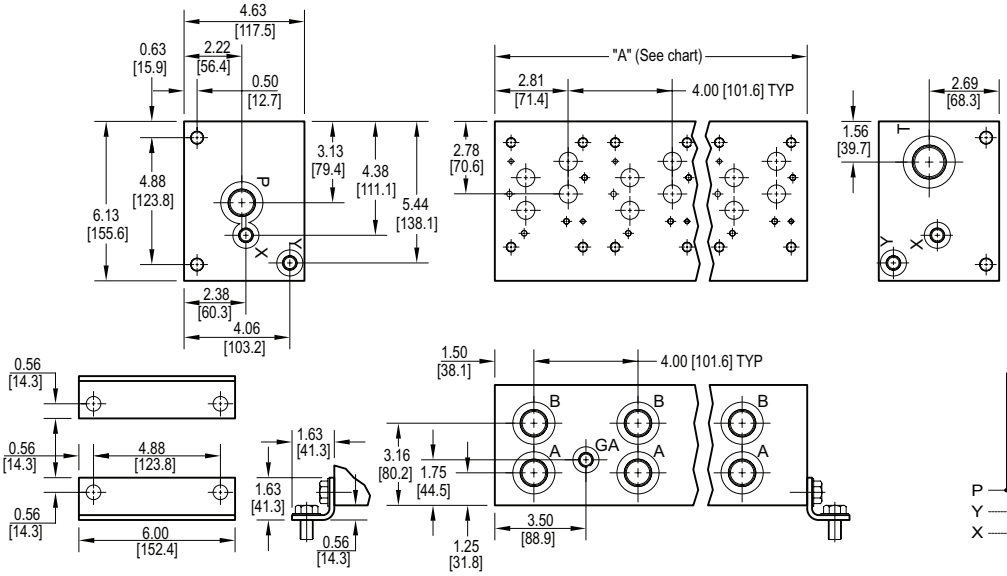
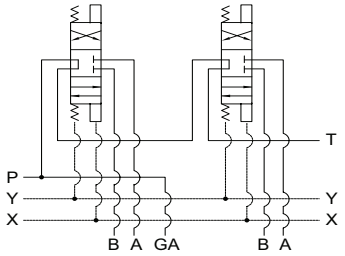
D07 Series Circuit Manifold



Series Circuit



All mounting hardware is supplied.
See page 65 for itemized list.

No. of stations	02	03	04
"A" length (code 4 spa.) inch [mm]	8.00 [203.2]	12.00 [304.8]	16.00 [406.4]
apx. weight alum lb [kg]	23 [10]	32 [15]	40 [18]
apx. weight ferrous lb [kg]	68 [31]	103 [47]	137 [62]

Port code	Valve mtg.	Manifold mtg.
P, S	0.38-16 UNC x 1.00 [25] DP 0.25-20 UNC x 0.75 [19] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M10 ISO 6H x 1.00 [25] DP M6 ISO 6H x 0.75 [19] DP	M12 ISO 6H x 0.88 [22.3] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information

No. of Stations

Aluminum	
02...04	Available with spacing code 4
Ductile Iron	
02...04	Available with spacing code 4

Circuit

S	Series Circuit

Valve Spacing

4	4.00 inch 101.6 mm

Port Threads

		P,A,B	T	X & Y	GA
P	NPTF • ANSI B1.20.3	0.75	1.00	0.38	0.25
S	SAE • ISO 11926	-12	-16	-6	-6
B	BSPP • ISO 1179	0.75	1.00	0.38	none
M	ISO • ISO 6149	M27	M33	M14	none
T	BSPT • ISO 7	0.75	1.00	0.38	none

Options

No options available.

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D08 Manifolds ☞

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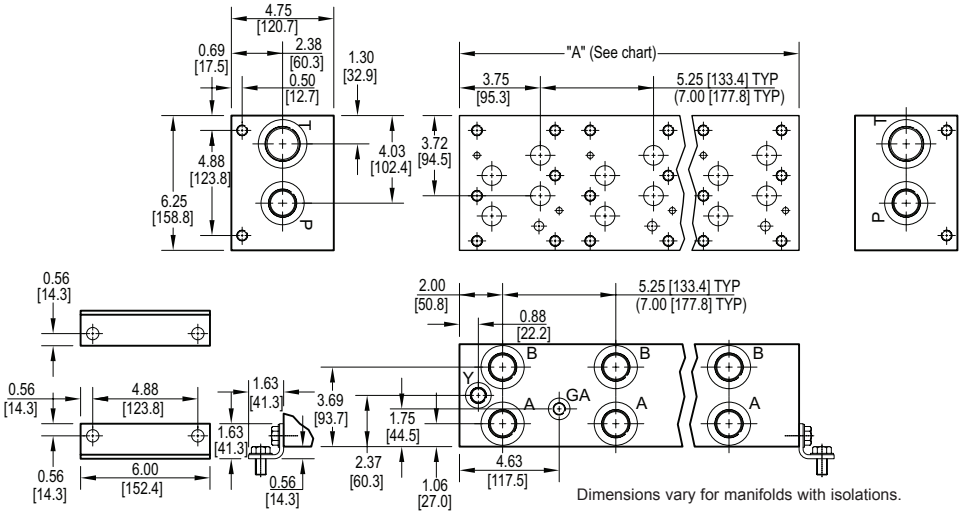
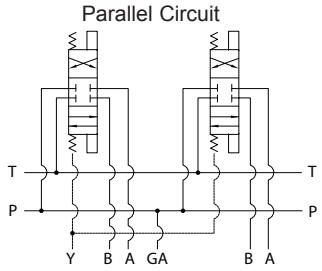
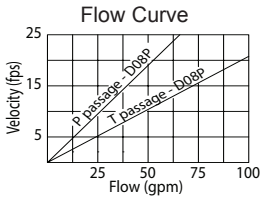
D08 Standard Flow Parallel Manifold



Dimensions vary for manifolds with isolations.





Rated flow Pressure 41 gpm @ 15 fps
Rated flow Tank 72 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07	08
"A" length (code 5 spa.) inch [mm]	5.25 [133.4]	10.50 [266.7]	15.75 [400.1]	21.00 [533.4]	26.25 [666.8]	31.50 [800.1]	36.75 [933.5]	42.00 [1066.8]
apx. weight alum lb [kg]	12 [5]	24 [11]	35 [16]	49 [22]	61 [28]	75 [34]	89 [40]	102 [46]
apx. weight ferrous lb [kg]	45 [20]	90 [41]	136 [62]	181 [82]	226 [103]	271 [123]	316 [143]	362 [164]
"A" length (code 7 spa.) inch [mm]	--	12.25 [311.2]	19.25 [489.0]	26.25 [666.8]	33.25 [844.6]			
apx. weight alum lb [kg]	--	28 [13]	44 [20]	60 [27]	76 [34]			
apx. weight ferrous lb [kg]	--	105 [48]	166 [75]	226 [103]	286 [130]			

* Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...08	Available with spacing code 5
02...05	Available with spacing code 7
Ductile Iron	
01...08	Available with spacing code 5
02...05	Available with spacing code 7

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25	0.25
S	SAE • ISO 11926	-16	-20	-8	-4	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	0.25	none
M	ISO • ISO 6149	M33	M42	M14	M10	none
T	BSPT • ISO 7	1.00	1.25	0.38	0.25	none

Options

See next page for available options and ordering codes.

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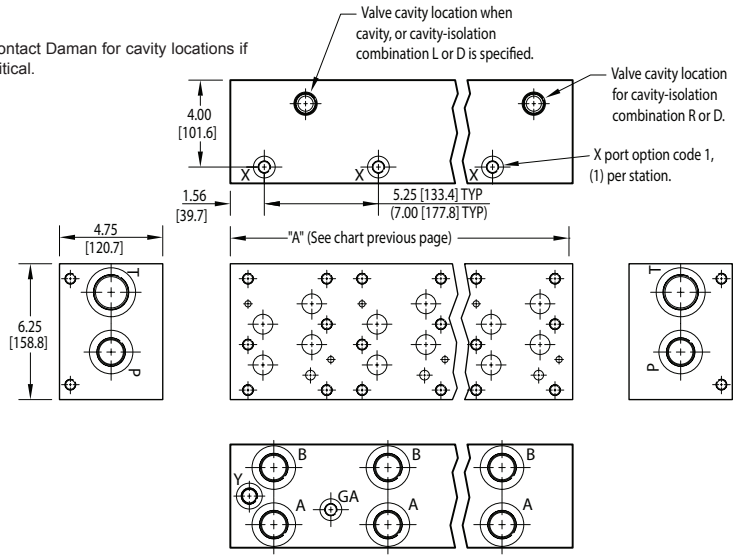
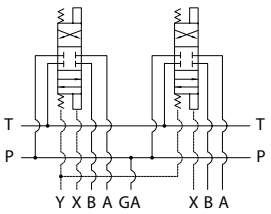
Options - D08 Standard Flow Parallel Manifold

Contact Daman for cavity locations if critical.



Parallel Circuit with X



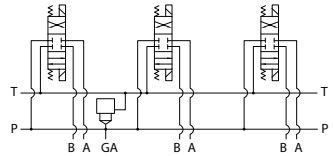
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-08
B	02 & 03	03-08
C	03 & 04	04-08
D	04 & 05	05-08
E	05 & 06	06-08
F	06 & 07	07-08
G	07 & 08	08
7.00 [177.8] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

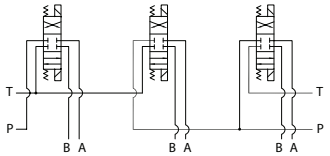
* Stations are numbered left to right.

Parallel Circuit with Cavity



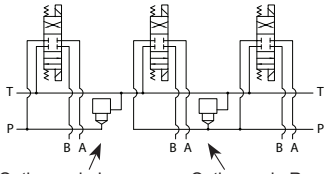
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

... /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required	
1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Cavity

Omit if cavity not required	
C	Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required	
TA...TG	Available with spacing code 5
TA...TD	Available with spacing code 7

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required	
PA...PG	Available with spacing code 5
PA...PD	Available with spacing code 7

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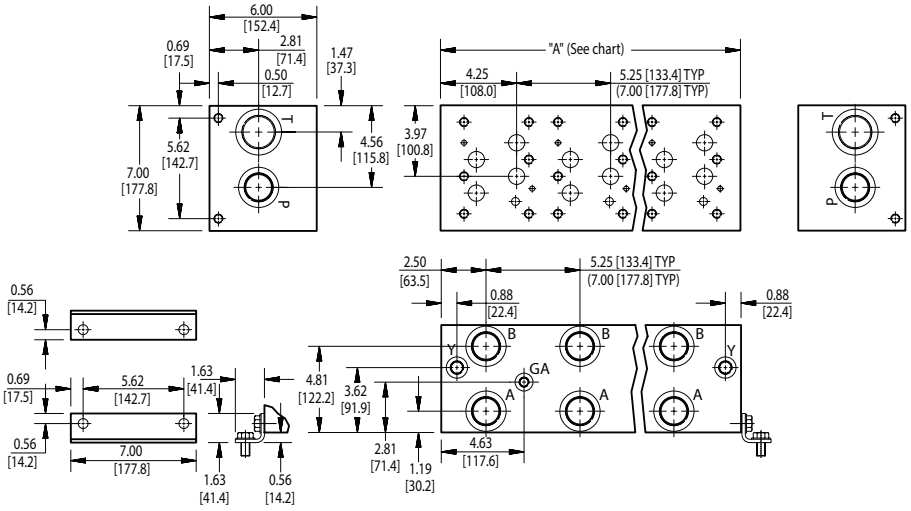
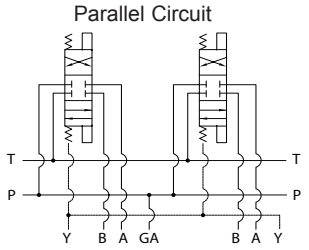
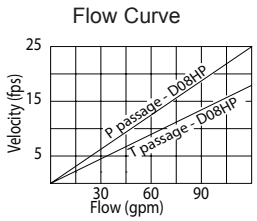
D08 High Flow Parallel Circuit Manifold







Rated flow Pressure 72 gpm @ 15 fps
Rated flow Tank 100 gpm @ 15 fps

No. of stations	* 01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	6.25 [158.8]	11.50 [292.1]	16.75 [425.5]	22.00 [558.8]	27.25 [692.2]	32.50 [825.5]	37.75 [958.9]
apx. weight alum lb [kg]	26 [12]	48 [22]	70 [32]	92 [42]	114 [52]	136 [62]	158 [72]
apx. weight ferrous lb [kg]	69 [31]	126 [57]	183 [83]	240 [109]	298 [135]	355 [161]	412 [187]
"A" length (code 7 spa.) inch [mm]	--	13.25 [336.6]	20.25 [514.4]	27.25 [692.2]	34.25 [870.0]	41.25 [1047.8]	
apx. weight alum lb [kg]	--	55 [25]	85 [39]	114 [52]	143 [65]	173 [78]	
apx. weight ferrous lb [kg]	--	145 [66]	221 [100]	298 [135]	374 [170]	450 [204]	

* Gauge port not available on 01 station.

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...07	Available with spacing code 5
02...06	Available with spacing code 7
Ductile Iron	
01...07	Available with spacing code 5
02...05	Available with spacing code 7

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads

		P,A,B	T	Y	X optional	GA
P	NPTF • ANSI B1.20.3	1.25	1.50	0.38	0.25	0.25
S	SAE • ISO 11926	-20	-24	-8	-4	-6
B	BSPP • ISO 1179	1.25	1.50	0.50	0.25	none
M	ISO • ISO 6149	M42	M48	M16	M10	none
T	BSPT • ISO 7	1.25	1.50	0.50	0.25	none

Options

See next page for available options and ordering codes.

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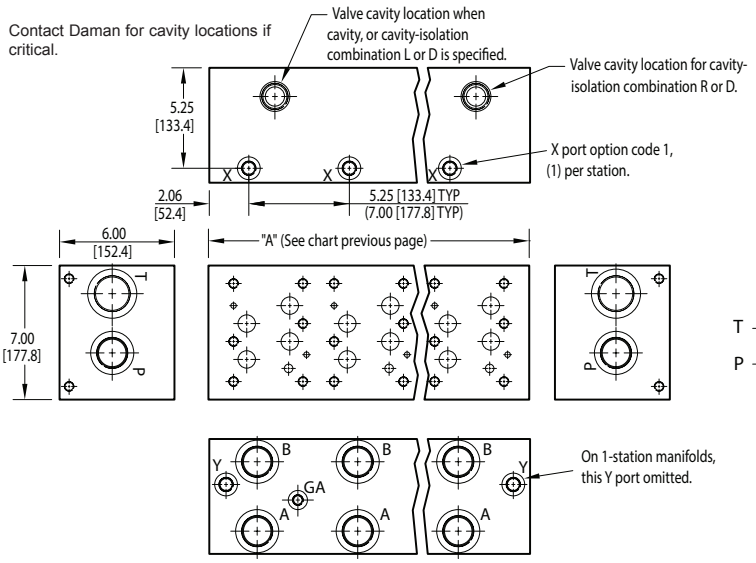
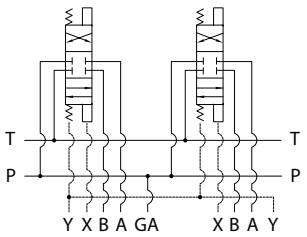
Options - D08 High Flow Parallel Manifold



Parallel Circuit with X



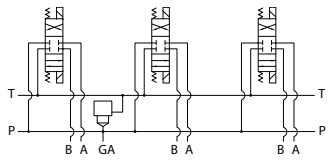
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

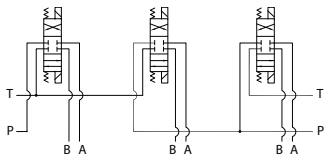
* Stations are numbered left to right.

Parallel Circuit with Cavity



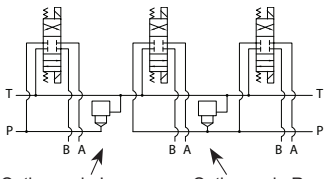
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

... /	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Pilot Ports

Omit if X ports not required	
1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Cavity

Omit if cavity not required	
C	Common cavity: With solenoid clearance C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required	
TA...TF	Available with spacing code 5
TA...TE	Available with spacing code 7

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.	
L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required	
PA...PF	Available with spacing code 5
PA...PE	Available with spacing code 7

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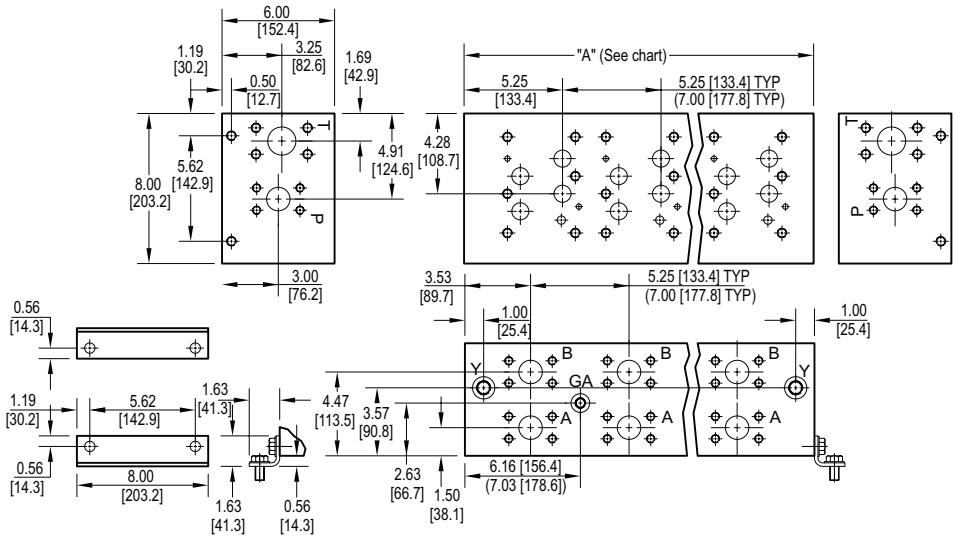
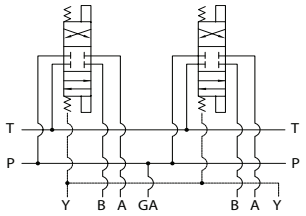
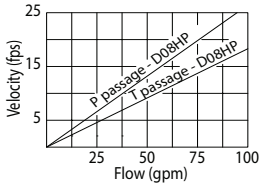
D08 High Flow Parallel Circuit Manifold - Flange Ports



Parallel Circuit



Flow Curve



Rated flow Pressure 57 gpm @ 15 fps
Rated flow Tank 83 gpm @ 15 fps

No. of stations	01	02	03	04	05	06	07
"A" length (code 5 spa.) inch [mm]	7.63 [193.7]	12.88 [327.0]	18.13 [460.4]	23.38 [593.7]	28.63 [727.1]	33.88 [860.4]	39.13 [993.8]
apx. weight alum lb [kg]	37 [16.6]	62 [28]	87 [40]	112 [51]	137 [62]	163 [74]	188 [85]
apx. weight ferrous lb [kg]	99 [45]	167 [76]	235 [107]	303 [137]	371 [168]	439 [199]	507 [230]
"A" length (code 7 spa.) inch [mm]	--	14.63 [371.5]	21.63 [549.3]	28.63 [727.1]	35.63 [904.9]	42.63 [1082.7]	
apx. weight alum lb [kg]	--	70 [32]	104 [47]	137 [62]	171 [78]	204 [93]	
apx. weight ferrous lb [kg]	--	190 [86]	280 [127]	371 [168]	462 [210]	552 [250]	

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA port	Y port	X port *
F	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-8** SAE J1926	**-4** SAE J1926
F / M	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	**M16** ISO 6149	**M10** ISO 6149

* X port is optional. See options on next page.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
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Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

Circuit

HP	Parallel Circuit High Flow

No. of Stations

Aluminum	
01...07	Available with spacing code 5
02...06	Available with spacing code 7
Ductile Iron	
01...07	Available with spacing code 5
02...06	Available with spacing code 7

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.25 CODE 61	1.50 CODE 61

Options

See next page for available options and ordering codes.

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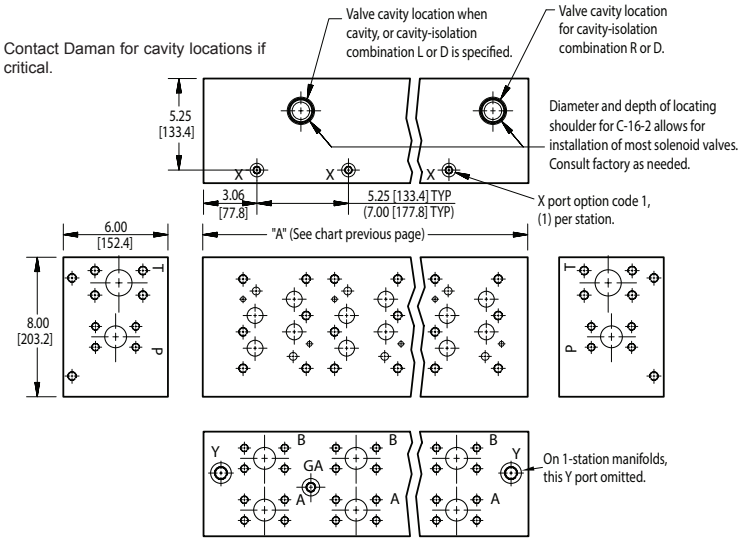
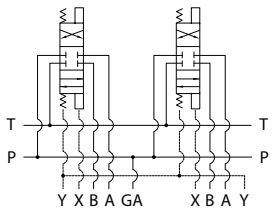
Options - D08 High Flow Parallel Manifold - Flange Ports



Parallel Circuit with X



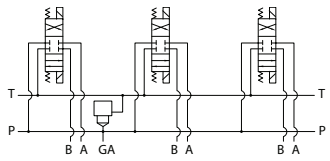
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
5.25 [133.4] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
7.00 [177.8] spacing		
A	01 & 02	02-06
B	02 & 03	03-06
C	03 & 04	04-06
D	04 & 05	05-06
E	05 & 06	06

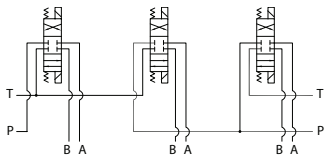
* Stations are numbered left to right.

Parallel Circuit with Cavity



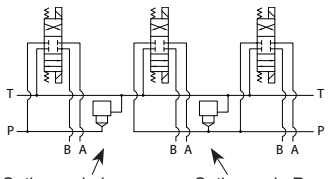
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Ordering Information

. . . /	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Cavity

Omit if cavity not required

C	Common cavity: C-16-2 (P in nose)
S	Sun Cavity: T-16A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required

TA...TF	Available with spacing code 5
TA...TE	Available with spacing code 7

Relief / Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-08-07 NFPA T3.5.1-D08

Pressure Isolation

Omit if P isolation not required

PA...PF	Available with spacing code 5
PA...PE	Available with spacing code 7

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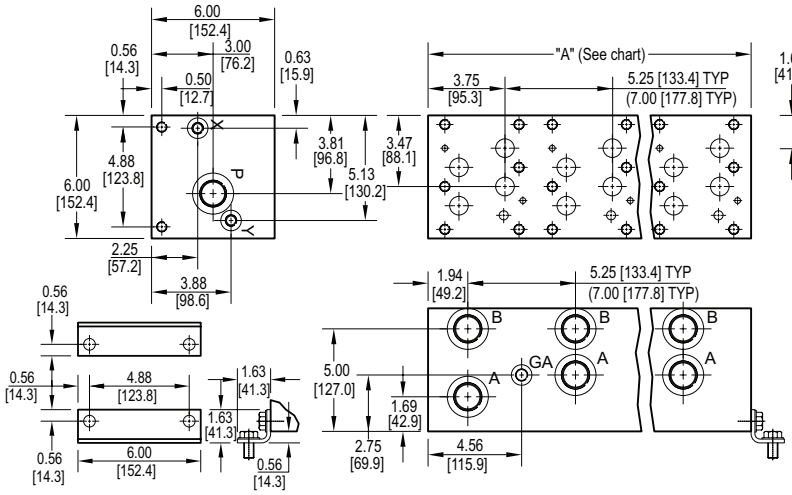
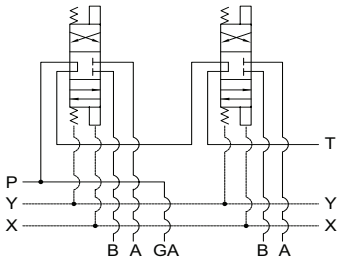
D08 Series Circuit Manifold



Series Circuit



No. of stations	02	03
"A" length (code 5 spa.) inch [mm]	10.50 [266.7]	15.75 [400.1]
apx. weight alum lb [kg]	37 [17]	51 [23]
apx. weight ferrous lb [kg]	109 [49]	164 [74]
"A" length (code 7 spa.) inch [mm]	12.25 [311.2]	19.25 [489.0]
apx. weight alum lb [kg]	51 [23]	63 [29]
apx. weight ferrous lb [kg]	127 [58]	200 [91]

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.
P, S	0.50-13 UNC x 1.19 [30] DP	0.50-13 UNC x 0.88 [22.3] DP
B, M, T	M12 ISO 6H x 1.19 [30] DP	M12 ISO 6H x 0.88 [22.3] DP

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

S	Series Circuit

Valve Spacing

5	5.25 inch 133.4 mm
7	7.00 inch 177.8 mm

Options

No options available.

Valve Pattern

D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information

No. of Stations

Aluminum	
02...03	Available with spacing code 5
02...03	Available with spacing code 7
Ductile Iron	
02...03	Available with spacing code 5
02...03	Available with spacing code 7

Port Threads

		P,A,B	T	X & Y	GA
P	NPTF • ANSI B1.20.3	1.00	1.25	0.38	0.25
S	SAE • ISO 11926	-16	-20	-6	-6
B	BSPP • ISO 1179	1.00	1.25	0.38	none
M	ISO • ISO 6149	M33	M42	M14	none
T	BSPT • ISO 7	1.00	1.25	0.38	none

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D10 Manifolds ☞

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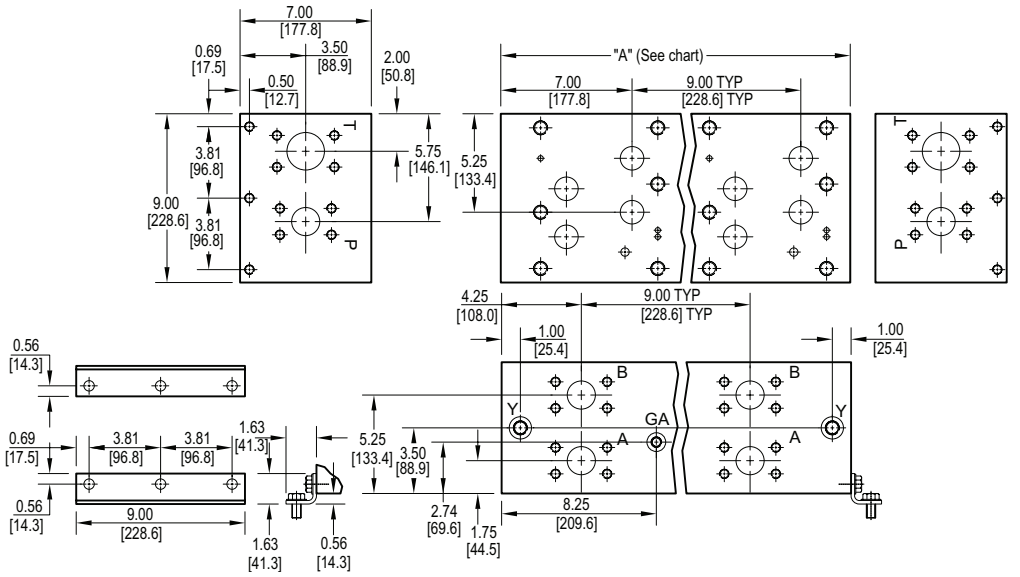
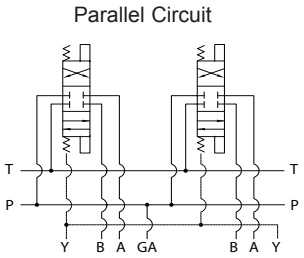
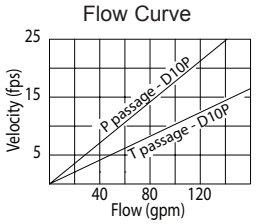
D10 Parallel Circuit Manifold - Flange Ports







Rated flow Pressure 83 gpm @ 15 fps
Rated flow Tank 147 gpm @ 15 fps

No. of stations	01	02	03	04	05
"A" length inch [mm]	10.00 [254.0]	19.00 [482.6]	28.00 [711.2]	37.00 [939.8]	46.00 [1168.4]
apx. weight alum lb [kg]	63 [29]	120 [54]	176 [80]	233 [106]	290 [132]
apx. weight ferrous lb [kg]	170 [77]	323 [147]	476 [216]	629 [285	

All mounting hardware is supplied.
See page 65 for itemized list.

Port code	Valve mtg.	Manifold mtg.	Flange mtg.	GA port	Y port	X port
F	0.75-10 UNC x 1.63 [41] DP	0.50-13 UNC x 0.88 [22] DP	ISO 6162 Type II - Inch	**-6** SAE J1926	**-8** SAE J1926	**-6** SAE J1926
F / M	M20 ISO 6H x 1.63 [41] DP	M12 ISO 6H x 0.88 [22] DP	ISO 6162 Type I - metric	NONE	**M16** ISO 6149	**M14** ISO 6149

* X port is optional. See options on next page.

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Valve Pattern

D10	ISO 4401-10-08 NFPA T3.5.1-D10 See Tech Information

Circuit

P	Parallel Circuit Standard Flow

No. of Stations

Aluminum	
01...05	Available with spacing code 9
Ductile Iron	
01...04	Available with spacing code 9

Valve Spacing

9	9.00 inch 228.6 mm

Port Threads

		P,A,B	T
F	**CODE 61 4-Bolt Flange** SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	1.50 CODE 61	2.00 CODE 61

Options

See next page for available options and ordering codes.

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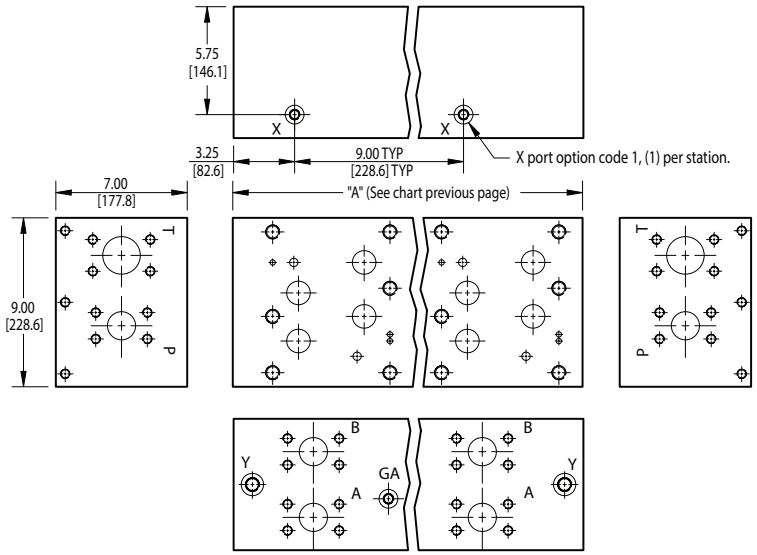
Options - D10 Parallel Manifold - Flange Ports



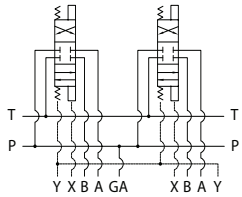
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

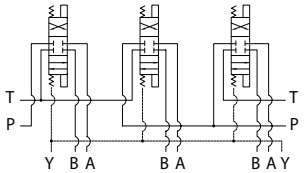
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

* Stations are numbered left to right.

Parallel Circuit with X



Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Ordering Information

... /	Thread Type	Pilot Ports	Pressure Isolation	Tank Isolation

Thread Type

Omit	Inch threads / ports
M	Metric threads / ports

Pressure Isolation

Omit if P isolation not required

PA...PD	Available with spacing code 9

Tank Isolation

Omit if T isolation not required

TA...TD	Available with spacing code 9

Pilot Ports

Omit if X ports not required

1	X port ISO 4401-10-08 NFPA T3.5.1-D10

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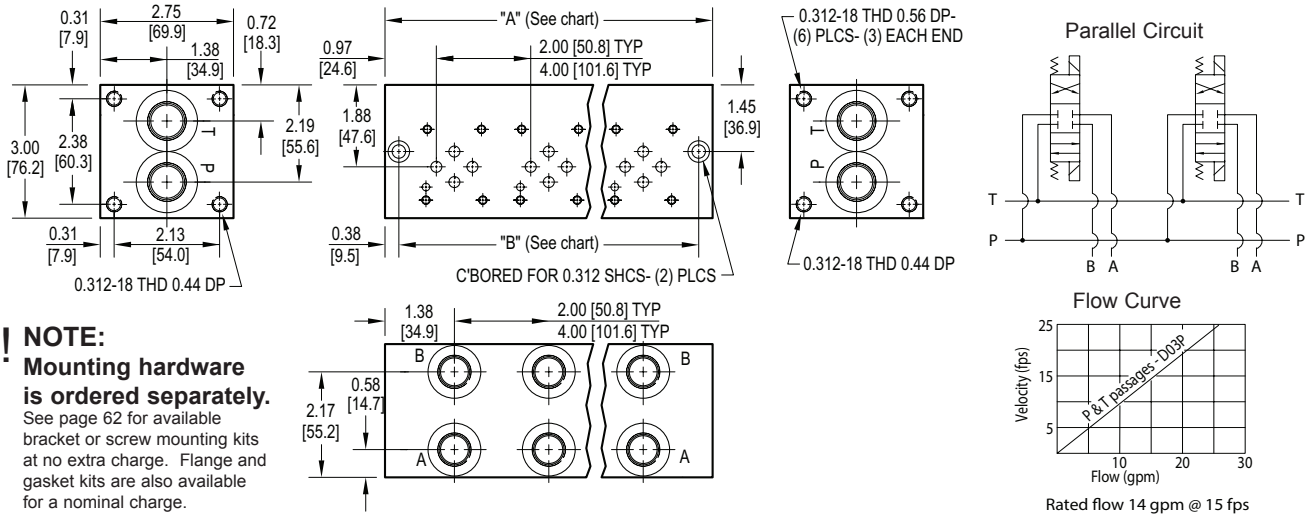
D03 FlexMount Parallel Circuit Manifold



! NOTE:
Mounting hardware is ordered separately.
See page 62 for available bracket or screw mounting kits at no extra charge. Flange and gasket kits are also available for a nominal charge.

Code 2 (2.00") valve spacing										
No. of stations	* 01	02	03	04	05	06	07	08	09	10
"A" length inch [mm]	2.75 [69.9]	4.75 [120.7]	6.75 [171.5]	8.75 [222.3]	10.75 [273.1]	12.75 [323.9]	14.75 [374.7]	16.75 [425.5]	18.75 [476.3]	20.75 [527.1]
"B" dimension inch [mm]	2.00 [50.8]	4.00 [101.6]	6.00 [152.4]	8.00 [203.2]	10.00 [254.0]	12.00 [304.8]	14.00 [355.6]	16.00 [406.4]	18.00 [457.2]	20.00 [508.0]
apx. weight alum lb [kg]	2.5 [1.2]	4 [2]	6 [3]	7.5 [4]	9 [4.5]	11 [5]	12 [5.5]	14 [6.5]	15.5 [7]	17 [8]
apx. weight ferrous lb [kg]	6 [3]	10.5 [5]	15 [7]	19 [9]	23 [11]	28 [13]				

Code 4 (4.00") valve spacing				
No. of stations	02	03	04	05
"A" length inch [mm]	6.75 [171.5]	10.75 [273.1]	14.75 [374.7]	18.75 [476]
"B" dimension inch [mm]	6.00 [152.4]	10.00 [254.0]	14.00 [355.6]	18.00 [457.2]
apx. weight alum lb [kg]	6 [3]	9 [4.5]	13 [6]	15 [7]
apx. weight ferrous lb [kg]	15 [8]	23 [12]	32 [15]	

* "A" length of 01 station with relief cavity is 3.75 [95.3]. "B" dimension is 3.00 [76.2].

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

For **coating options** see pages 245-246.

Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Product Line

L	FlexMount

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

P	Parallel Circuit Standard Flow

Valve Pattern

D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information

Valve Spacing

2	2.00 inch [50.8 mm]
4	4.00 inch [101.6 mm]

No. of Stations

Aluminum	
01...10	Available with spacing code 2
02...05	Available with spacing code 4
Ductile Iron	
01...06	Available with spacing code 2
02...04	Available with spacing code 4

Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.50	0.38
S	SAE • ISO 11926	-10	-8

Options

See next page for available options and ordering codes.

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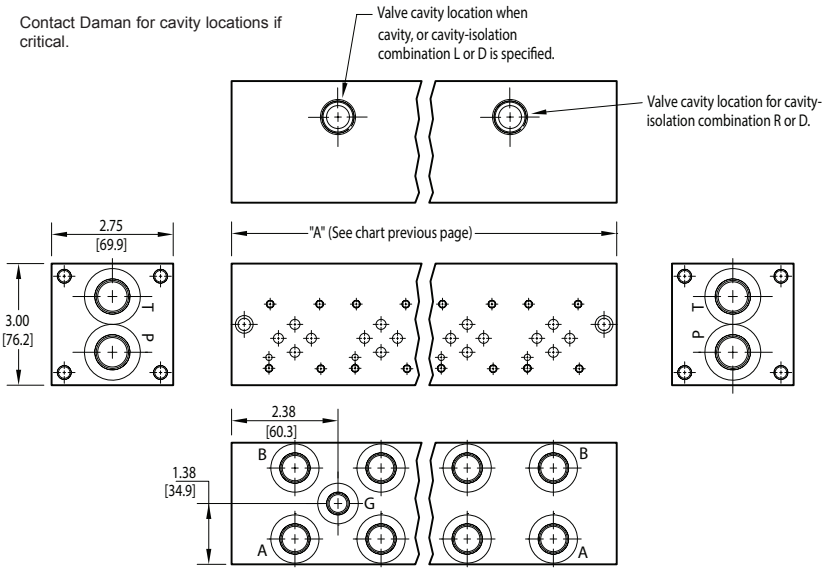
Options - D03 FlexMount Parallel Manifold



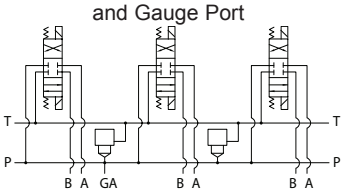
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.00 [50.8] spacing		
A	01 & 02	02-10
B	02 & 03	03-10
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10
J	09 & 10	10
4.00 [101.6] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

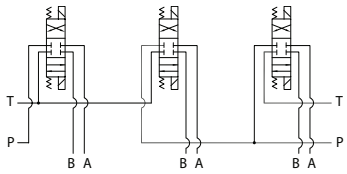
* Stations are numbered left to right.

Parallel Circuit with Cavity and Gauge Port



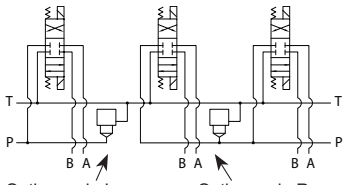
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is specified.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Gauge Port	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Gauge Port

Omit if gauge port not required.	
G	Gauge Port for system pressure
If Port Thread code is: P, then Gauge port = 0.25 NPTF S, then Gauge port = -4 SAE	

Cavity

Omit if cavity not required.	
C	Common cavity: No solenoid clearance C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity: T-10A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required.	
TA...TJ	Available with spacing code 2
TA...TD	Available with spacing code 4

Relief / Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required. Not available with G option.	
PA...PJ	Available with spacing code 2
PA...PD	Available with spacing code 4

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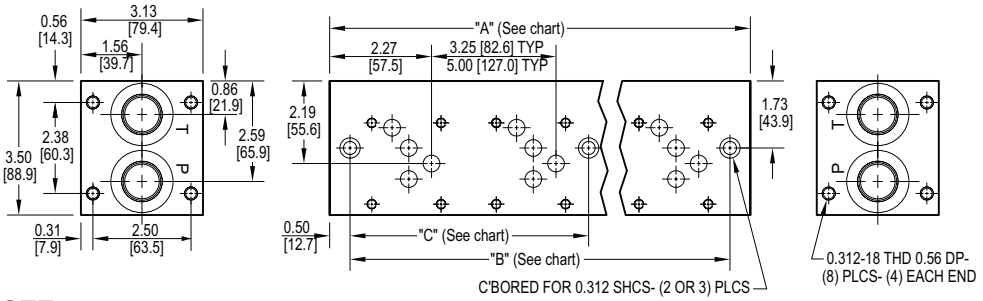
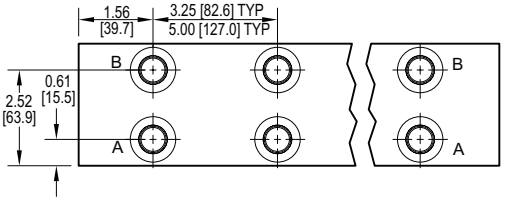
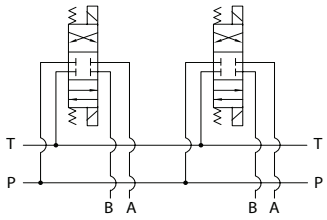
D05 FlexMount Parallel Circuit Manifold



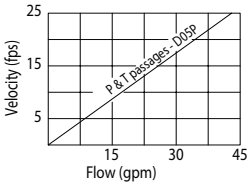


! NOTE:
Mounting hardware is ordered separately.
See page 62 for available bracket or screw mounting kits at no extra charge. Flange and gasket kits are also available for a nominal charge.

Parallel Circuit



Flow Curve



Rated flow 25 gpm @ 15 fps

Code 3 (3.25") valve spacing							
No. of stations	* 01	02	03	04	05	06	07
"A" length inch [mm]	3.25 [82.6]	6.50 [165.1]	9.75 [247.7]	13.00 [330.2]	16.25 [412.8]	19.50 [495.3]	22.75 [577.9]
"B" dimension inch [mm]	2.25 [57.2]	5.50 [139.7]	8.75 [222.3]	12.00 [304.8]	15.25 [387.4]	18.50 [469.9]	21.75 [552.5]
"C" dimension inch [mm]	--	--	--	--	6.00 [152.4]	9.25 [235.0]	12.50 [317.5]
apx. weight alum lb [kg]	4 [2]	7.5 [3]	11 [5]	14.5 [7]	18 [8]	21.5 [10]	25 [12]
apx. weight ferrous lb [kg]	9.5 [4.5]	19 [8.5]	28 [13]	37 [17]	46.5 [21]	56 [25.5]	

Code 5 (5.00") valve spacing				
No. of stations	02	03	04	05
"A" length inch [mm]	8.25 [209.6]	13.25 [336.6]	18.25 [463.6]	23.25 [590.6]
"B" dimension inch [mm]	7.25 [184.2]	12.25 [311.2]	17.25 [438.2]	22.25 [565.2]
"C" dimension inch [mm]	--	--	8.63 [219.1]	13.63 [346.1]
apx. weight alum lb [kg]	9 [4]	15 [7]	20 [9]	25 [12]
apx. weight ferrous lb [kg]	24 [11]	38 [17]	52 [24]	

* "A" length of 01 station with relief cavity is 4.50 [114.3]. "B" dimension is 3.50 [88.9].

Ordering Information

For **coating options** see pages 245-246.

Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options

Product Line

L	FlexMount

Material

A	Aluminum - 6061-T6 3000† psi • 20.7 MPa
D	Ductile Iron - D4512 5000† psi • 34.5 MPa

† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

Circuit

P	Parallel Circuit Standard Flow

Valve Pattern

D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

Valve Spacing

3	3.25 inch [82.6 mm]
5	5.00 inch [127.0 mm]

No. of Stations

Aluminum	
01...07	Available with spacing code 3
02...05	Available with spacing code 5
Ductile Iron	
01...06	Available with spacing code 3
02...04	Available with spacing code 5

Port Threads

		P & T	A & B
P	NPTF • ANSI B1.20.3	0.75	0.50
S	SAE • ISO 11926	-12	-8

Options

See next page for available options and ordering codes.

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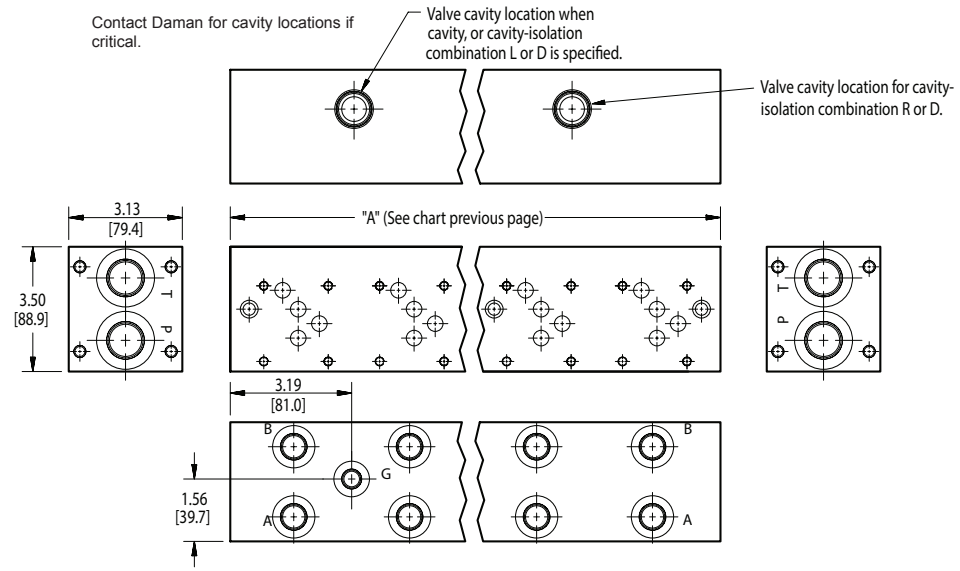
Options - D05 FlexMount Parallel Manifold



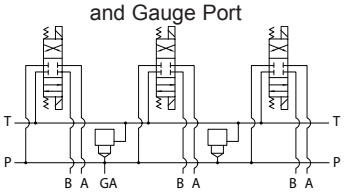
ISOLATIONS

Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.

Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	01 & 02	02-07
B	02 & 03	03-07
C	03 & 04	04-07
D	04 & 05	05-07
E	05 & 06	06-07
F	06 & 07	07
5.00 [127.0] spacing		
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

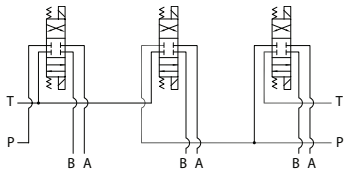
* Stations are numbered left to right.

Parallel Circuit with Cavity and Gauge Port



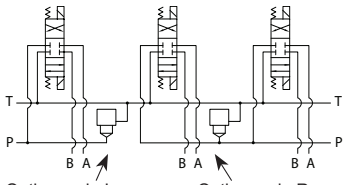
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations



Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

Option code D includes both cavities

NOTES:

1) The GA port is not available on a (1) station manifold.

2) The GA port is not available when a pressure isolation is specified.

3) Some cavity and isolation combinations are not possible. Consult factory to determine availablity.

Ordering Information

... /	Gauge Port	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations

Gauge Port

Omit if gauge port not required.

G	Gauge Port for system pressure

If Port Thread code is:
P, then Gauge port = 0.25 NPTF
S, then Gauge port = -4 SAE

Cavity

Omit if cavity not required.

C	Common cavity: With solenoid clearance C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Tank Isolation

Omit if T isolation not required.

TA...TF	Available with spacing code 3
TA...TD	Available with spacing code 5

Cavity & Isolation Combinations

Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.

L	Relief cavity is located left of the isolation.
R	Relief cavity is located right of the isolation.
D	Two relief cavities, one each side of isolation.

Pressure Isolation

Omit if P isolation not required. Not available with G option.

PA...PF	Available with spacing code 3
PA...PD	Available with spacing code 5

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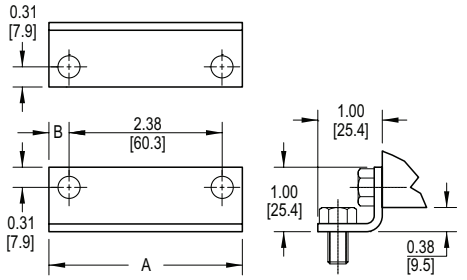
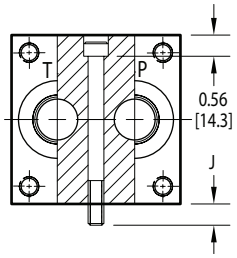
Mounting Kits for FlexMount Manifolds

Mounting Bracket

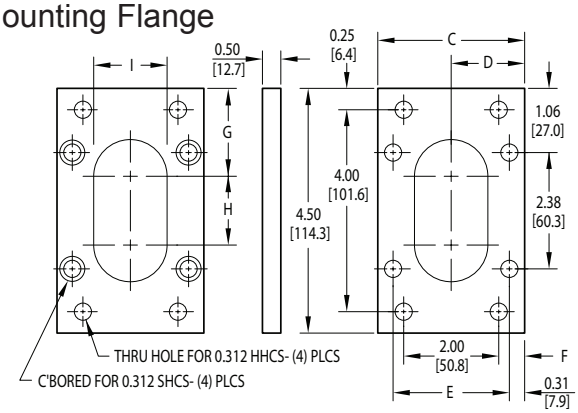


Dim	A	B	C	D	E	F	G	H	I	J	K
D03	3.00 [76.2]	0.31 [7.9]	2.75 [69.9]	1.38 [34.9]	2.13 [54.0]	0.38 [9.5]	1.47 [37.3]	1.47 [37.3]	1.33 [33.7]	0.56 [14.3]	3.25 [82.6]
D05	3.50 [88.9]	0.56 [14.3]	3.13 [79.4]	1.56 [39.7]	2.50 [63.5]	0.56 [14.3]	1.36 [34.6]	1.73 [44.0]	1.61 [41.0]	0.69 [17.5]	3.53 [89.7]

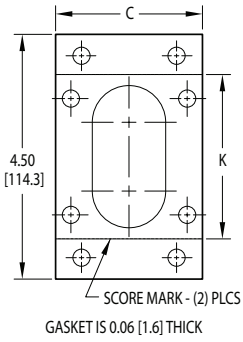
Mounting Screw



Mounting Flange



Gasket



Bill of Materials

Mounting Bracket and Mounting Flange Kits	185-D03MKL	185-D03MKV	185-D05MKL	185-D05MKV
(2) zinc coated steel brackets	●		●	
(1) zinc coated steel end mounting plate		●		●
(8) 0.312-18 x 0.63 long hex washer head cap screws	●		●	
(1) 0.312-18 x 0.50 long socket head cap screw		●		
(3) 0.312-18 x 0.63 long socket head cap screws		●		
(4) 0.312-18 x 0.75 long socket head cap screws				●
(4) 0.312-18 x 1.00 long hex head cap screws		●		●
(4) 0.312 high collar lock washers		●		●
(1) Tank top gasket		●		●

Mounting Screw Kits	185-D03MKB2	185-D05MKB2	185-D05MKB3
(2) 0.312-18 x 2.75 long socket head cap screws	●		
(2) 0.312-18 x 3.25 long socket head cap screws		●	
(3) 0.312-18 x 3.25 long socket head cap screws			●

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

Inventory Number	—	Manifold Size	Mounting Kit	Mounting Configuration	Number of Screws

185
(Inventory Number)

Manifold Size	
D03	D03 Manifold
D05	D05 Manifold

Configuration	
L	Mounting Bracket kit
B	Mounting Screw kit
V	Mounting Flange kit (Includes Gasket)
G	Gasket only

No. of Screws	
Specifiy for Mounting Screw kits (type B) only.	
2	Two mounting holes on manifold. L*D03 1-6 stations. L*D05 1-4 stations with code 3 spacing. L*D05 2-3 stations with code 5 spacing.
3	Three mounting holes on manifold. L*D05 5-6 stations with code 3 spacing. L*D05 4 station with code 5 spacing.

Mounting Kit	
MK	Mounting Kit

Note: For standard, non-FlexMount manifold mounting kits, kit contents and ordering part numbers, see pages 64-65.

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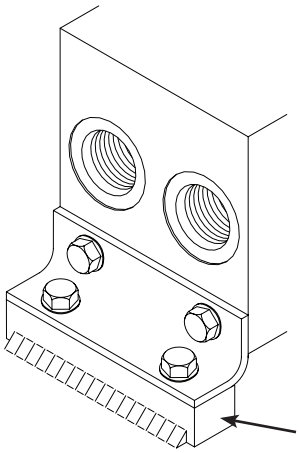
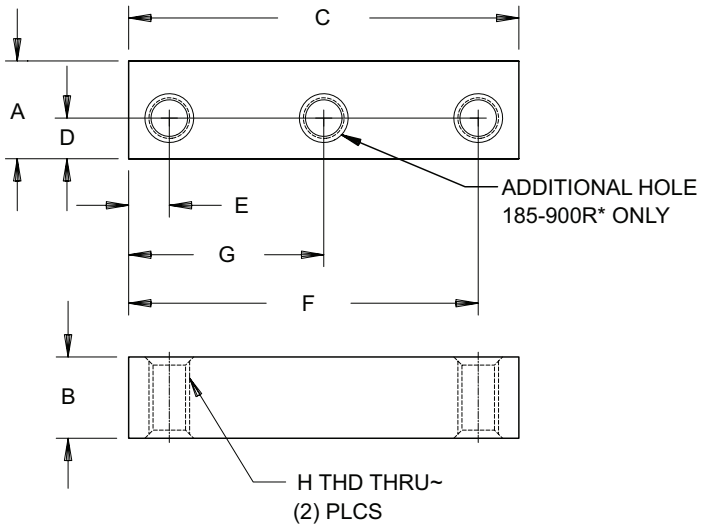
Mounting Bracket Riser Blocks



Riser block
Material mild steel
Weldable ● uncoated



Part No.	A	B	C	D	E	F	G	H THD
185-250RU 185-250RM	0.63 [16.0]	0.50 [12.7]	2.50 [63.5]	0.25 [6.4]	0.25 [6.4]	2.25 [57.2]	--	0.250-20 UNC-2B M6 x 1 ISO 6H
185-300RU 185-300RM	0.75 [19.1]	0.63 [16.0]	3.00 [76.2]	0.31 [7.9]	0.31 [7.9]	2.69 [68.3]	--	0.312-18 UNC-2B M8 x 1.25 ISO 6H
185-350RU 185-350RM	0.75 [19.1]	0.63 [16.0]	3.50 [88.9]	0.31 [7.9]	0.56 [14.2]	2.94 [74.6]	--	0.312-18 UNC-2B M8 x 1.25 ISO 6H
185-400RU 185-400RM	0.75 [19.1]	0.63 [16.0]	4.00 [101.6]	0.31 [7.9]	0.31 [7.9]	3.69 [93.7]	--	0.312-18 UNC-2B M8 x 1.25 ISO 6H
185-500RU 185-500RM	1.00 [25.4]	0.75 [19.1]	5.00 [127.0]	0.44 [11.2]	0.44 [11.2]	4.56 [115.9]	--	0.375-16 UNC-2B M10 x 1.5 ISO 6H

Part No.	A	B	C	D	E	F	G	H THD
185-600RU 185-600RM	1.25 [31.8]	1.00 [25.4]	6.00 [152.4]	0.56 [14.2]	0.56 [14.2]	5.44 [138.1]	--	0.500-13 UNC-2B M12 x 1.75 ISO 6H
185-700RU 185-700RM	1.25 [31.8]	1.00 [25.4]	7.00 [177.8]	0.56 [14.2]	0.69 [17.5]	6.31 [160.3]	--	0.500-13 UNC-2B M12 x 1.75 ISO 6H
185-800RU 185-800RM	1.25 [31.8]	1.00 [25.4]	8.00 [203.2]	0.56 [14.2]	1.19 [30.2]	6.81 [173.0]	--	0.500-13 UNC-2B M12 x 1.75 ISO 6H
185-900RU 185-900RM	1.25 [31.8]	1.00 [25.4]	9.00 [228.6]	0.56 [14.2]	0.69 [17.5]	8.31 [211.1]	4.50 [114.3]	0.500-13 UNC-2B M12 x 1.75 ISO 6H

Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

Inventory Number	—	Bracket Size	Riser	Thread Type

185
(Inventory Number)

Bracket Size	
250	2.50" Brackets (2)
300	3.00" Brackets (2)
350	3.50" Brackets (2)
400	4.00" Brackets (2)
500	5.00" Brackets (2)
600	6.00" Brackets (2)
700	7.00" Brackets (2)
800	8.00" Brackets (2)
900	9.00" Brackets (2)

R
(Riser Block)

Thread Type	
U	UNC Inch Threads
M	Metric Threads

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Manifold Mounting Hardware*

Part no.	Cat. pg.	Mtg. Kit no.	Gauge Port Plug	Mounting Screws	Brackets
* D02 P 01 1 P	8-9	185-250-MKO	n/a	(8) UNC 0.25-20 x 0.50 long hex washer cap screw	(2) Steel brackets
* D02 P 01 1 S	8-9	185-250-MKO	n/a		
* D02 * ** 1 P	8-11	185-250-MKP	(1) 0.25-18 NPTF LSPP		
* D02 * ** 1 S	8-11	185-250-MKS	(1) -6 SAE hex socket plug		
* D02 * ** 1 B	8-11	185-250-MKM	n/a	(8) ISO 6H M6-1.0 x 12mm HHCS and (8) 0.25 SAE N series washers	
* D02 * ** 1 M	8-11	185-250-MKM	n/a		
* D02 * ** 1 T	8-11	185-250-MKM	n/a		
* D03 P 01 2 P	12-13	185-300-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 P 01 2 S	12-13	185-300-MKO	n/a		
* D03 * ** * P	12-13, 22-23	185-300-MKP	(1) 0.25-18 NPTF LSPP		
* D03 * ** * S	12-13, 22-23	185-300-MKS	(1) -6 SAE hex socket plug		
* D03 * ** * B	12-13, 22-23	185-300-MKM	n/a	(8) ISO 6H M8-1.25 x 16mm HHCS and (8) 0.31 SAE N series washers	
* D03 * ** * M	12-13, 22-23	185-300-MKM	n/a		
* D03 * ** * T	12-13, 22-23	185-300-MKM	n/a		
* D03 TF *	15	185-400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 HP 01 2 P	16-17	185-400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D03 HP 01 2 S	16-17	185-400-MKO	n/a		
* D03 HP ** * P	16-17	185-400-MKP	(1) 0.25-18 NPTF LSPP		
* D03 HP ** * S	16-17	185-400-MKS	(1) -6 SAE hex socket plug		
* D03 HP ** * B	16-17	185-400-MKM	n/a	(8) ISO 6H M8-1.25 x 16mm HHCS and (8) 0.31 SAE N series washers	
* D03 HP ** * M	16-17	185-400-MKM	n/a		
* D03 HP ** * T	16-17	185-400-MKM	n/a		
* D03 HP 01 4 F	18-19	185-500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D03 HP ** 4 F	18-19	185-500-MKS	(1) -6 SAE hex socket plug		
* D03 HP ** 4 F/M	18-19	185-500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 P 01 3 P	24-25	185-350-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D05 P 01 3 S	24-25	185-350-MKO	n/a		
* D05 * ** * P	24-25, 36-37	185-350-MKP	(1) 0.25-18 NPTF LSPP		
* D05 * ** * S	24-25, 36-37	185-350-MKS	(1) -6 SAE hex socket plug		
* D05 * ** * B	24-25, 36-37	185-350-MKM	n/a	(8) ISO 6H M8-1.25 x 16mm HHCS and (8) 0.31 SAE N series washers	
* D05 * ** * M	24-25, 36-37	185-350-MKM	n/a		
* D05 * ** * T	24-25, 36-37	185-350-MKM	n/a		
* D05 TF *	27	185-400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	(2) Steel brackets
* D05 HP 01 3 P	28-29	185-500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 HP 01 3 S	28-29	185-500-MKO	n/a		
* D05 H* ** * P	28-29, 38-39	185-500-MKP	(1) 0.25-18 NPTF LSPP		
* D05 H* ** * S	28-29, 38-39	185-500-MKS	(1) -6 SAE hex socket plug		
* D05 H* ** * B	28-29, 38-39	185-500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* D05 H* ** * M	28-29, 38-39	185-500-MKM	n/a		
* D05 H* ** * T	28-29, 38-39	185-500-MKM	n/a		
* D05 HP 01 5 F	30-31	185-500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 HP ** 5 F	30-31	185-500-MKS	(1) -6 SAE hex socket plug		
* D05 HP ** 5 F/M	30-31	185-500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets

*Mounting hardware not supplied for stainless steel products.

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Manifold Mounting Hardware*

Part no.	Cat. pg.	Mtg. Kit no.	Gauge Port Plug	Mounting Screws	Brackets
* D05 JP 01 3 P	34-35	185-500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D05 JP 01 3 S	34-35	185-500-MKO	n/a		
* D05 JP ** * P	34-35	185-500-MKP	(1) 0.25-18 NPTF LSPP		
* D05 JP ** * S	34-35	185-500-MKS	(1) -6 SAE hex socket plug		
* D05 JP ** * B	34-35	185-500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* D05 JP ** * M	34-35	185-500-MKM	n/a		
* D05 JP ** * T	34-35	185-500-MKM	n/a		
* D07 P 01 3 P	40-41	185-500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS and (8) 0.38 SAE N series washers	(2) Steel brackets
* D07 P 01 3 S	40-41	185-500-MKO	n/a		
* D07 P ** * P	40-41	185-500-MKP	(1) 0.25-18 NPTF LSPP		
* D07 P ** * S	40-41	185-500-MKS	(1) -6 SAE hex socket plug		
* D07 P ** * B	40-41	185-500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* D07 P ** * M	40-41	185-500-MKM	n/a		
* D07 P ** * T	40-41	185-500-MKM	n/a		
* D07 HP 01 4 P	42-43	185-600-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 HP 01 4 S	42-43	185-600-MKO	n/a		
* D07 HP ** 4 P	42-43	185-600-MKP	(1) 0.25-18 NPTF LSPP		
* D07 HP ** 4 S	42-43	185-600-MKS	(1) -6 SAE hex socket plug		
* D07 HP ** 4 B	42-43	185-600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D07 HP ** 4 M	42-43	185-600-MKM	n/a		
* D07 HP ** 4 T	42-43	185-600-MKM	n/a		
* D07 HP 01 4 F	44-45	185-700-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 HP ** 4 F	44-45	185-700-MKS	(1) -6 SAE hex socket plug		
* D07 HP ** 4 F/M	44-45	185-700-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 S ** 4 P	46	185-600-MKP	(1) 0.25-18 NPTF LSPP	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D07 S ** 4 S	46	185-600-MKS	(1) -6 SAE hex socket plug		
* D07 S ** 4 B	46	185-600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D07 S ** 4 M	46	185-600-MKM	n/a		
* D07 S ** 4 T	46	185-600-MKM	n/a		
* D08 P 01 5 P	48-49	185-600-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D08 P 01 5 S	48-49	185-600-MKO	n/a		
* D08 * ** * P	48-49, 54	185-600-MKP	(1) 0.25-18 NPTF LSPP		
* D08 * ** * S	48-49, 54	185-600-MKS	(1) -6 SAE hex socket plug		
* D08 * ** * B	48-49, 54	185-600-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D08 * ** * M	48-49, 54	185-600-MKM	n/a		
* D08 * ** * T	48-49, 54	185-600-MKM	n/a		
* D08 HP 01 5 P	50-51	185-700-MKO	n/a	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D08 HP 01 5 S	50-51	185-700-MKO	n/a		
* D08 HP ** * P	50-51	185-700-MKP	(1) 0.25-18 NPTF LSPP		
* D08 HP ** * S	50-51	185-700-MKS	(1) -6 SAE hex socket plug		
* D08 HP ** * B	50-51	185-700-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	
* D08 HP ** * M	50-51	185-700-MKM	n/a		
* D08 HP ** * T	50-51	185-700-MKM	n/a		
* D08 HP ** * F	52-53	185-800-MKS	(1) -6 SAE hex socket plug	(8) UNC 0.50-13 x 1.00 long HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D08 HP ** * F/M	52-53	185-800-MKM	n/a	(8) ISO 6H M12-1.75 x 25mm HHCS and (8) 0.50 SAE N series washers	(2) Steel brackets
* D10 P ** 9 F	56-57	185-900-MKS	(1) -6 SAE hex socket plug	(12) UNC 0.50-13 x 1.00 long HHCS and (12) 0.50 SAE N series washers	(2) Steel brackets
* D10 P ** 9 F/M	56-57	185-900-MKM	n/a	(12) ISO 6H M12-1.75 x 25mm HHCS and (12) 0.50 SAE N series washers	(2) Steel brackets

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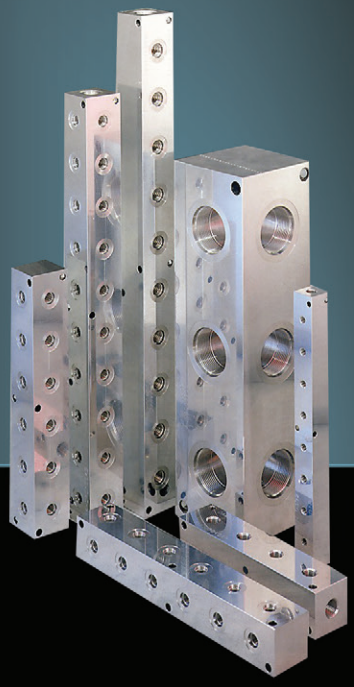

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