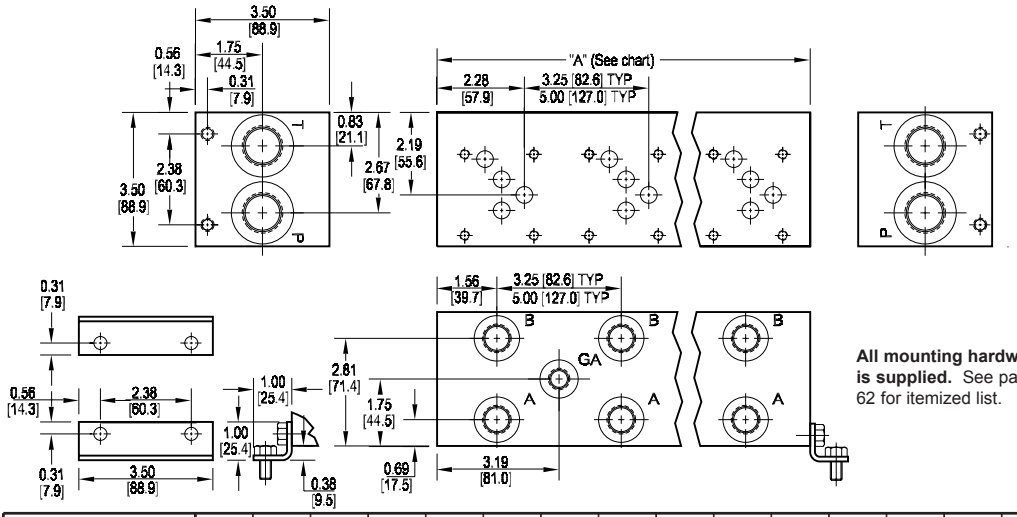
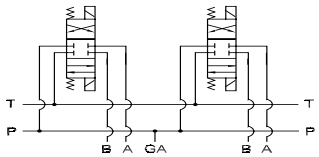
D05 Standard Flow Parallel Manifold

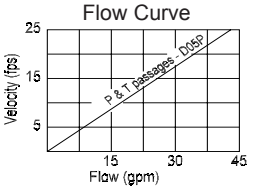


Parallel Circuit



All mounting hardware is supplied. See page 62 for itemized list.

Flow Curve



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 iron 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]	--	--	--	--	--	--	--	--	--
"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 iron 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

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	/	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

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

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

Options

See next page for available options and ordering codes.

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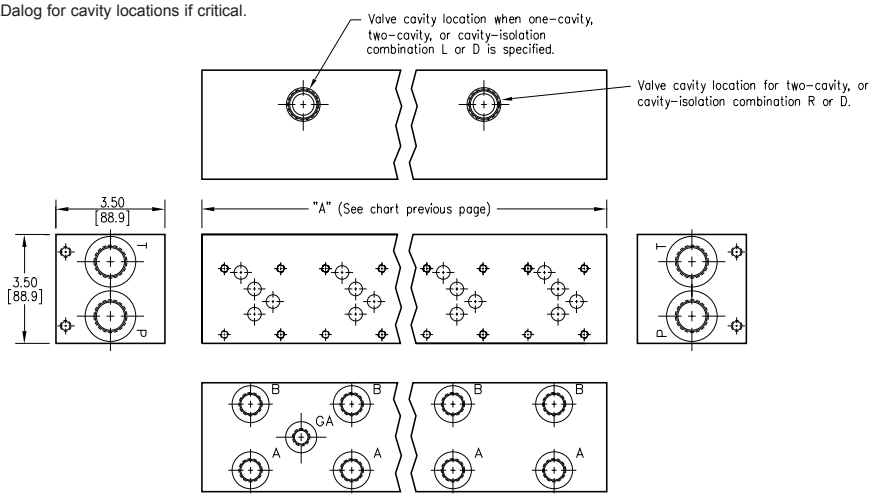
Options - D05 Standard Flow Parallel Manifold

Contact Daman or consult web CADalog for cavity locations if critical.



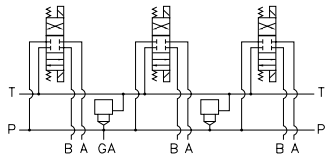
ISOLATIONS

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:
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

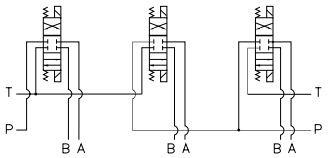
* Stations are numbered left to right.

Parallel Circuit with one or two Cavities



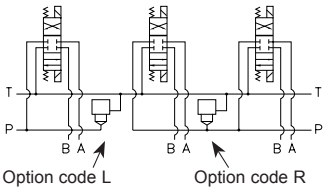
Valves with P in the nose and T out the side must be used.

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)
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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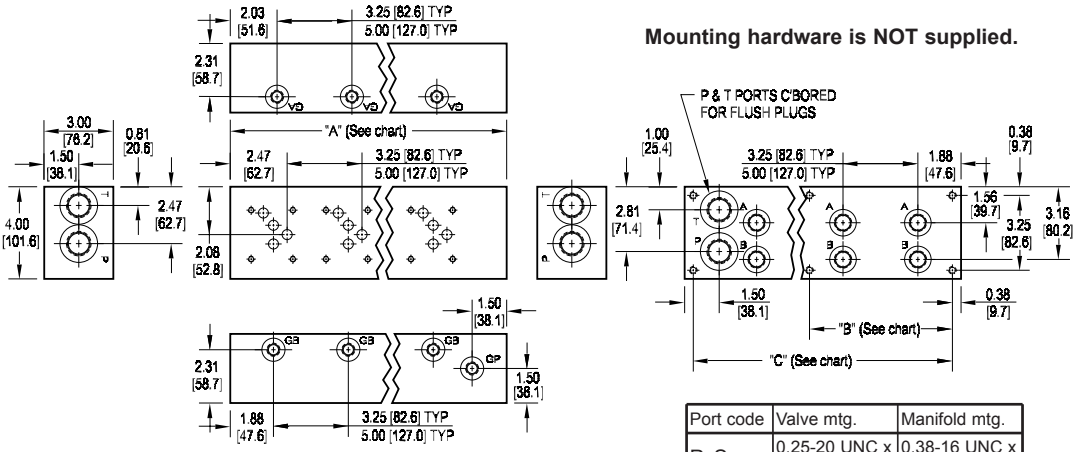
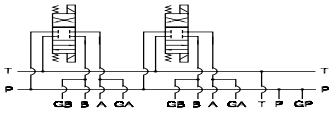
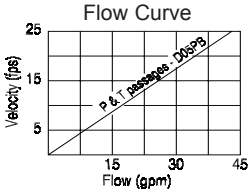
D05 Standard Flow Bottom Ported Manifold



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 (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]
"B" dim (code 3 spa.) inch [mm]	--	--	--	--	--	9.63 [244.5]	9.63 [244.5]	12.88 [327.0]	12.88 [327.0]	16.13 [409.6]
"C" dim (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]	6 [3]	10 [4]	14 [6]	18 [8]	22 [10]	26 [12]	29 [13]	33 [15]	37 [17]	41 [19]
apx. weight iron 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
"A" length (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]
"B" dim (code 5 spa.) inch [mm]	--	--	9.00 [228.6]	14.00 [355.6]	14.00 [355.6]
"C" dim (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]	12 [5]	18 [8]	24 [11]	30 [14]	36 [16]
apx. weight iron lb [kg]	31 [14]	47 [21]	62 [28]	78 [35]	94 [42]

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

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

3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

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 & 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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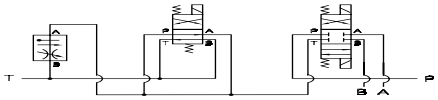
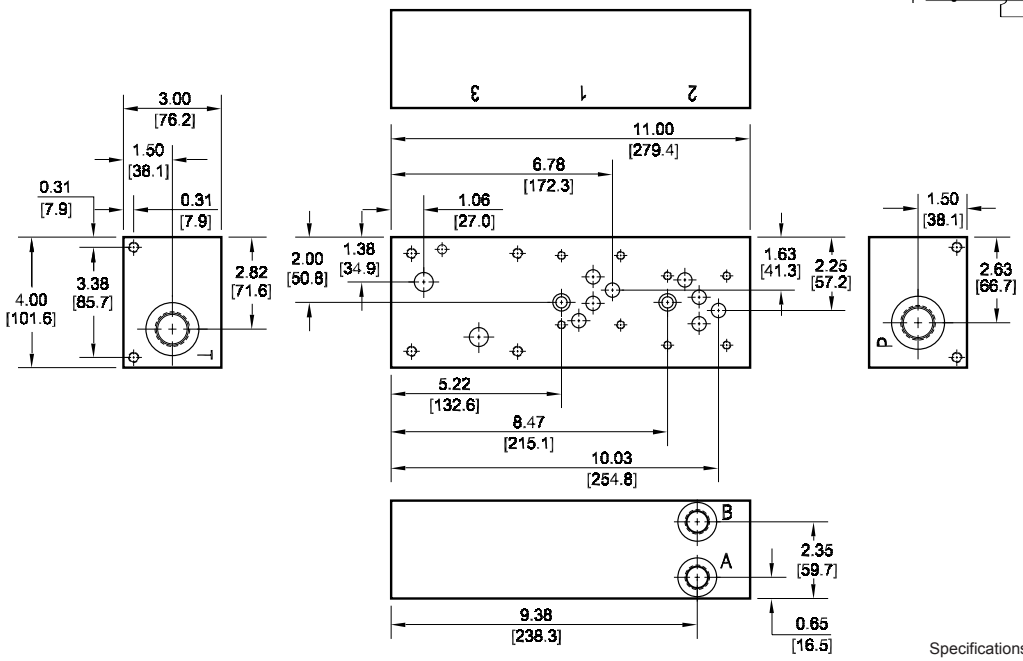
D05 Tank Line Feed Circuit Manifold

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 62 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

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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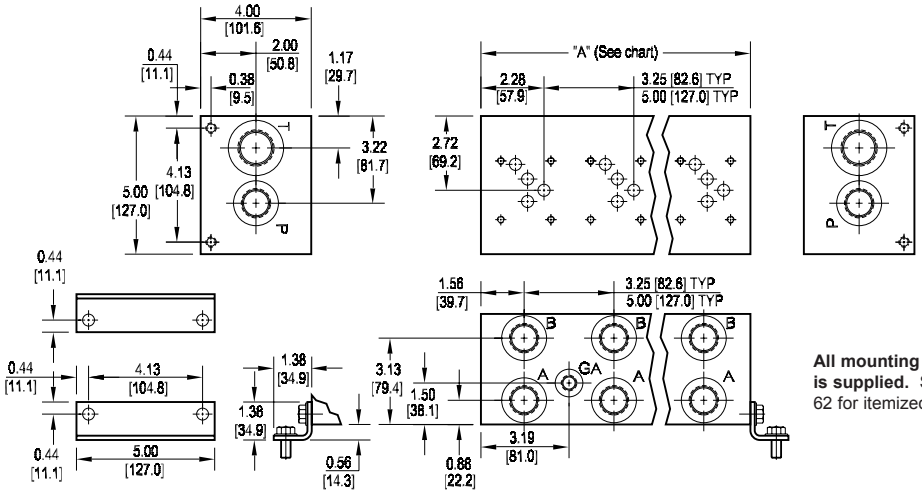
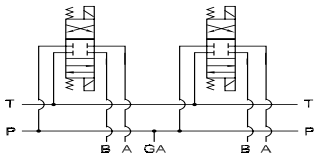
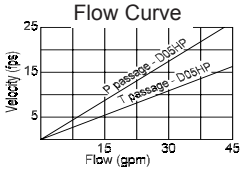
D05 High Flow Parallel Circuit Manifold



Parallel Circuit



Flow Curve



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

All mounting hardware is supplied. See page 62 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 iron 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]	--	--	--	--	--	--	--	--	--
"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 iron lb [kg]	--	48 [22]	77 [35]	106 [48]	135 [61]	164 [74]	188 [85]	222 [101]	251 [114]	--	--	--	--	--							

* 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	0.38-16 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

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	/	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...12	Available with spacing code 3
02...09	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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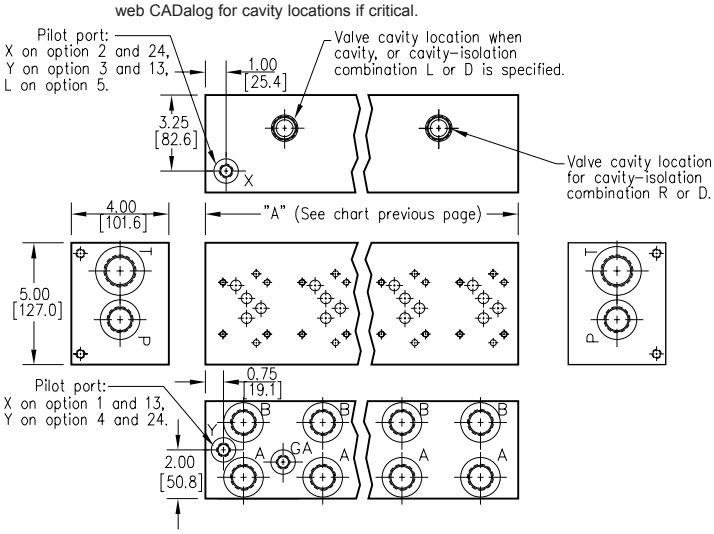
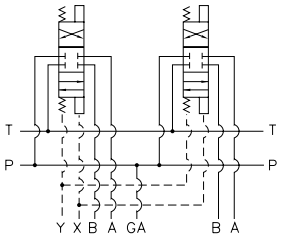
Options - D05 High Flow Parallel Manifold

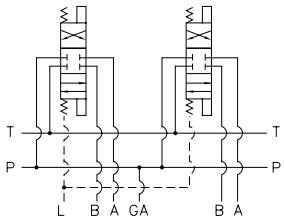
Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



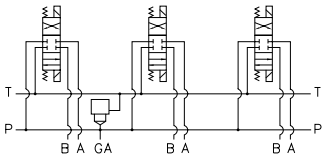
ISOLATIONS

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	03-11
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

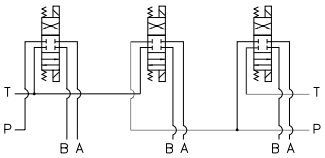
* Stations are numbered left to right.

Parallel Circuit with Cavity



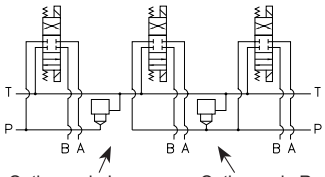
Valves with P in the nose and T out the side must be used.

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		Pilot ports available from 01-11 stations (3.25 spacing); 02-07 stations (5.00 spacing)
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-10-2 (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...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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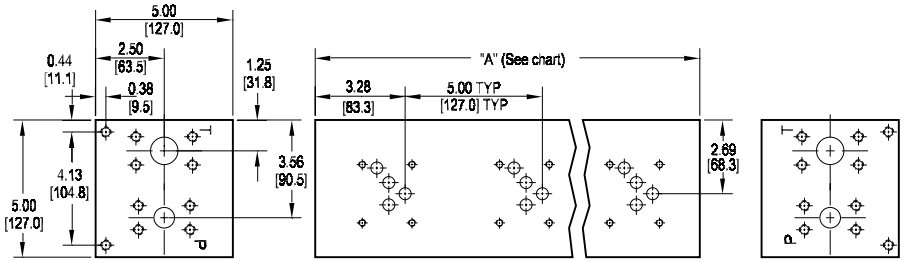
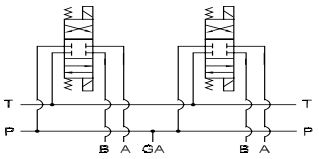
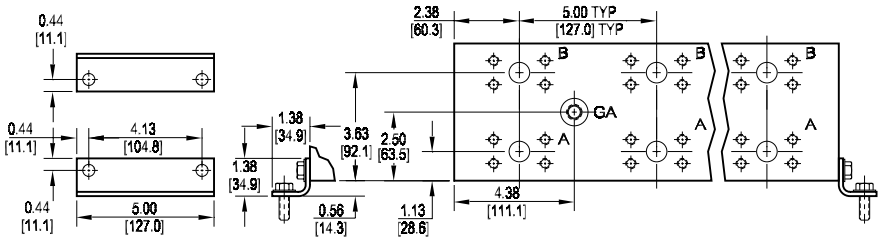
D05 High Flow Parallel Circuit Manifold - Flange Ports

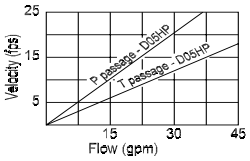


Parallel Circuit





Flow Curve



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
"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]
apx. weight alum lb [kg]	13 [5.7]	25 [11]	38 [17]	50 [23]	63 [28]	75 [34]	88 [40]	100 [45]	112 [51]
apx. weight iron lb [kg]	34 [15.3]	68 [31]	101 [46]	135 [61]	169 [77]	203 [92]	236 [107]	270 [123]	--

* 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 62 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.

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	/	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...09	Available with spacing code 5
Ductile Iron	
01...08	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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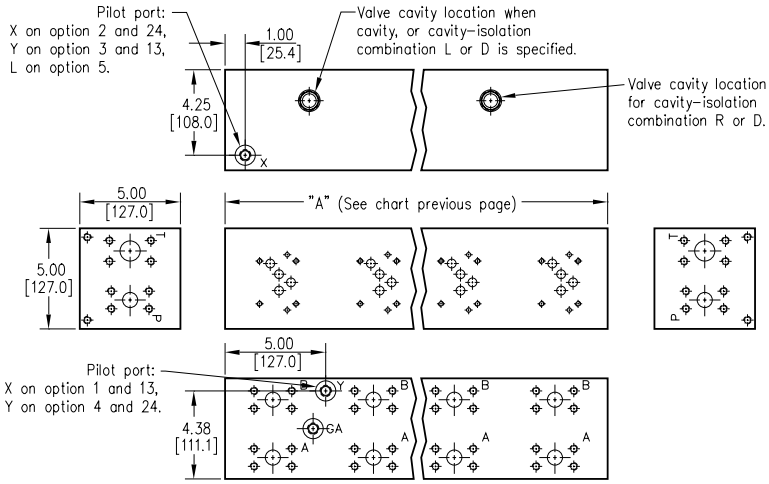
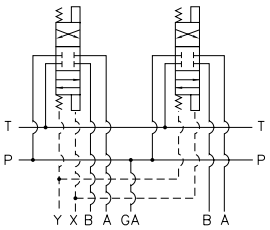
Options - D05 High Flow Parallel Manifold Flange Ports

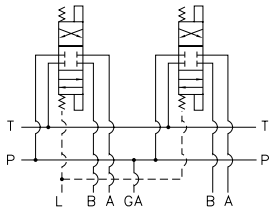
Contact Daman or consult web CADalog for cavity locations if critical.



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.

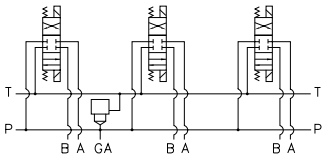
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-09
C	03 & 04	04-09
D	04 & 05	05-09
E	05 & 06	06-09
F	06 & 07	07-09
G	07 & 08	08-09

* Stations are numbered left to right.

NOTES:

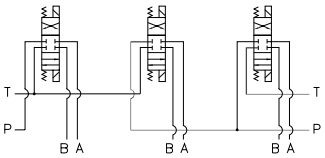
1) The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Cavity



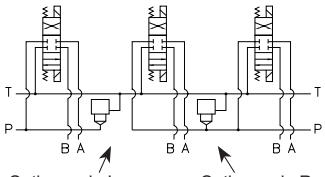
Valves with P in the nose and T out the side must be used.

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: With solenoid clearance. 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...PG	Available with spacing code 5

Tank Isolation

Omit if T isolation not required

TA...TG	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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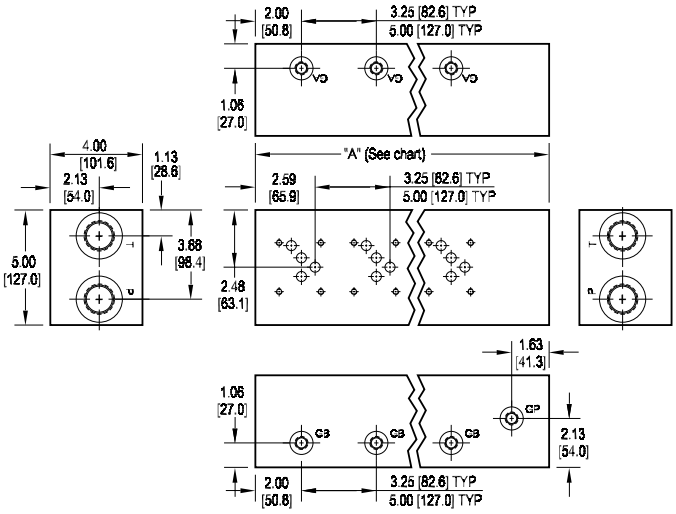
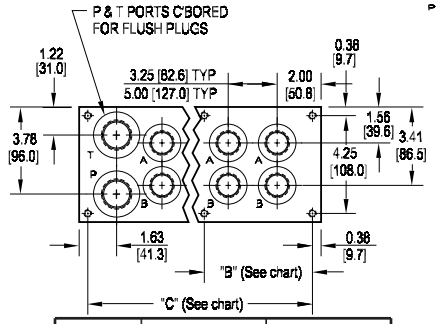
D05 High Flow Bottom Ported Manifold

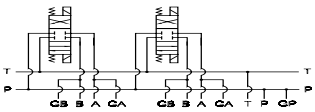


Mounting hardware is NOT supplied.

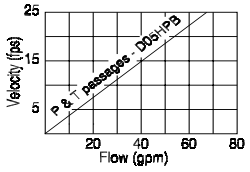


Port code	Valve mtg.	Manifold mtg.
P, S	0.25-20 UNC x 0.63 [16] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M6 ISO 6H x 0.63 [16] DP	M10 ISO 6H x 1.00 [25.4] DP

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 iron 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 iron 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. Download latest catalog page revisions at www.daman.com.

Ordering Information

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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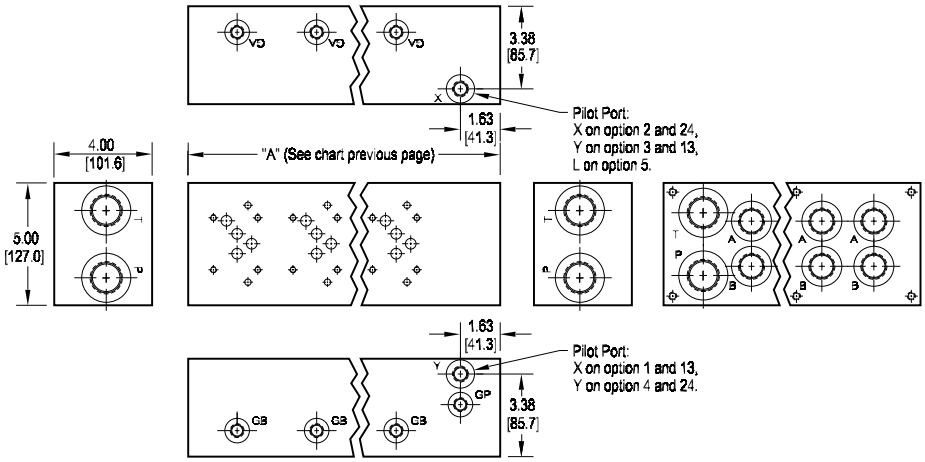
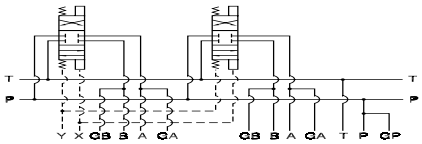
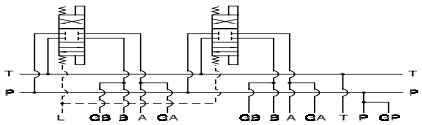
Options - D05 High Flow Parallel Manifold Bottom Ported



Parallel Circuit with X & Y



Parallel Circuit with L



Ordering Information

... /	Pilot Ports

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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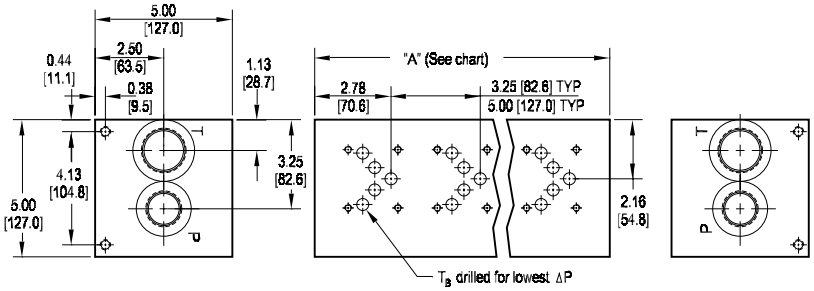
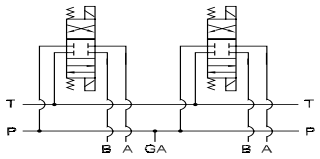
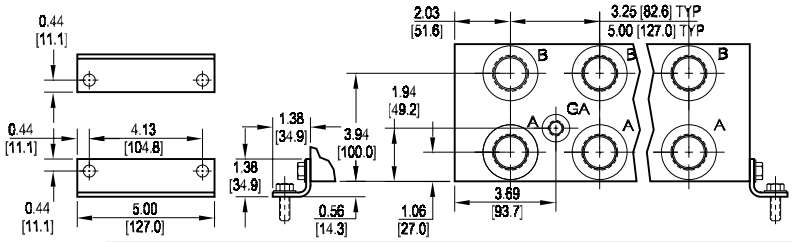
D05 Extra High Flow Parallel Circuit Manifold

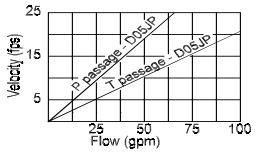


Parallel Circuit





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 iron 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 iron 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 63 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

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Ordering Information

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

JP	Parallel Circuit Extra High Flow

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

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	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

Options

See next page for available options and ordering codes.

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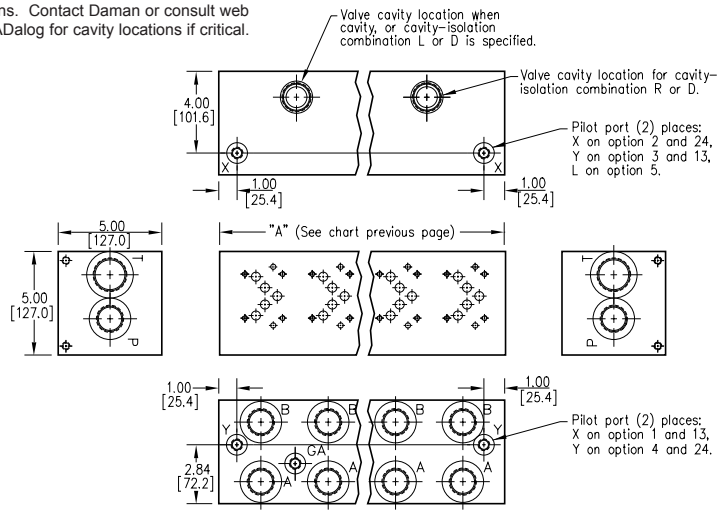
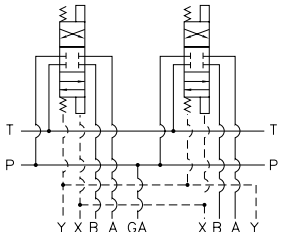
Options - D05 Extra High Flow Parallel Manifold

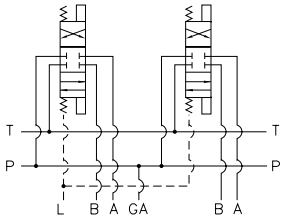
Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman or consult web CADalog for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



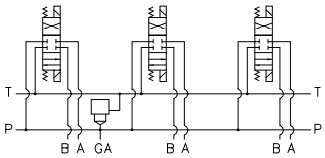
ISOLATIONS

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

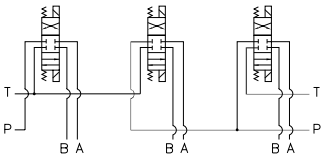
* Stations are numbered left to right.

Parallel Circuit with Cavity



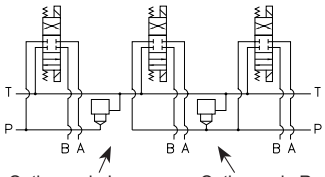
Valves with P in the nose and T out the side must be used.

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.

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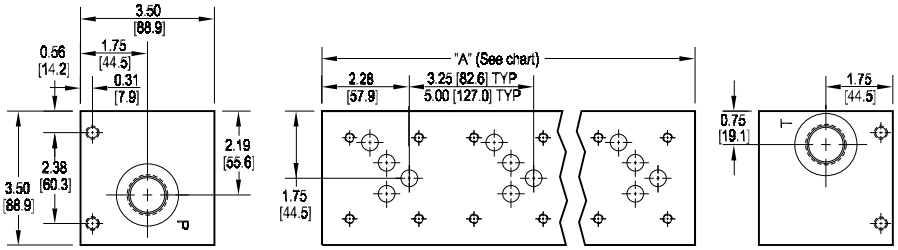
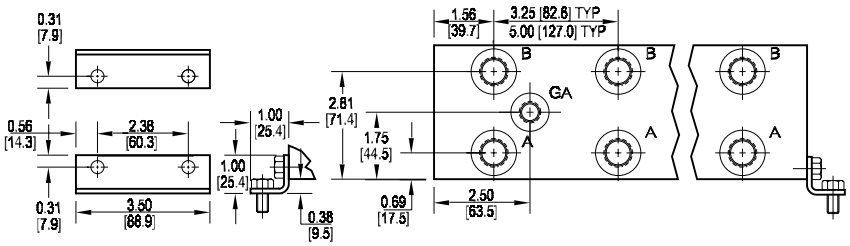
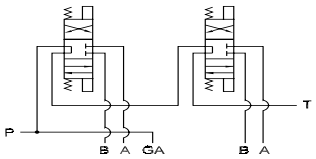
D05 Standard Flow Series Circuit Manifold





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]	8 [4]	11 [5]	14 [7]
apx. weight iron 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 iron lb [kg]	22 [10]	36 [16]	49 [22]

All mounting hardware is supplied.
See page 62 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

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Ordering Information

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 Standard 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	
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

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

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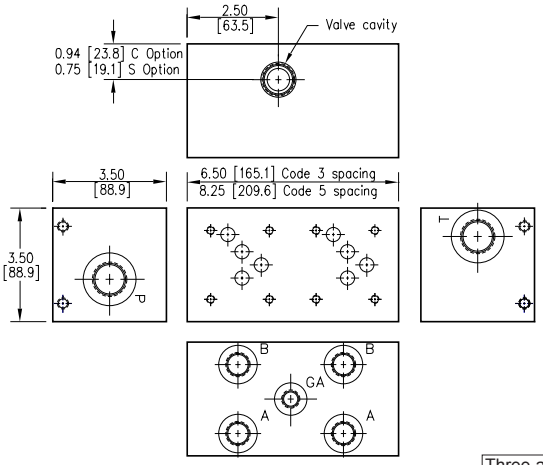
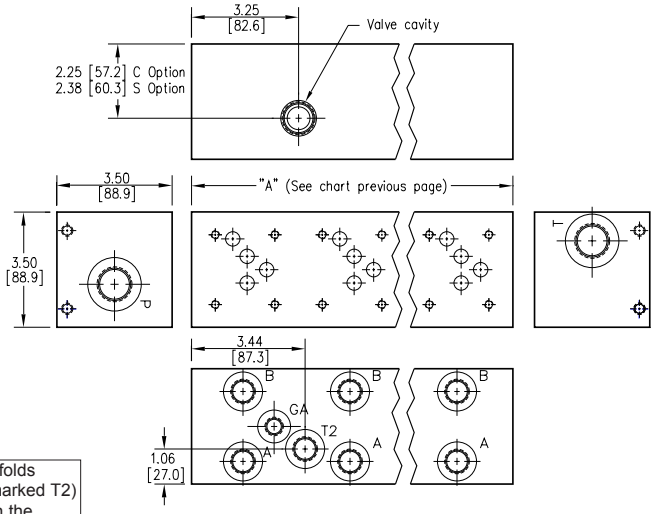
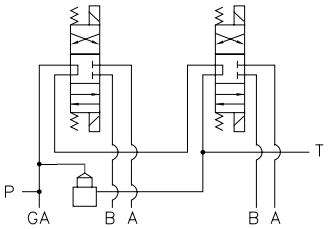
Options - D05 Standard Flow Series Manifold



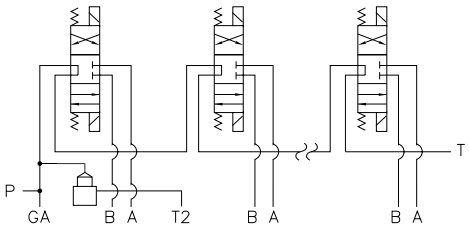


Three and Four station manifolds have a separate side port (marked T2) for the valve. Valve with P in the nose, T out the side, must be used.

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)
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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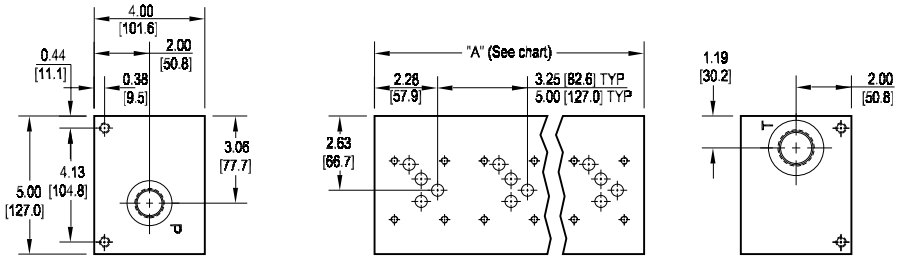
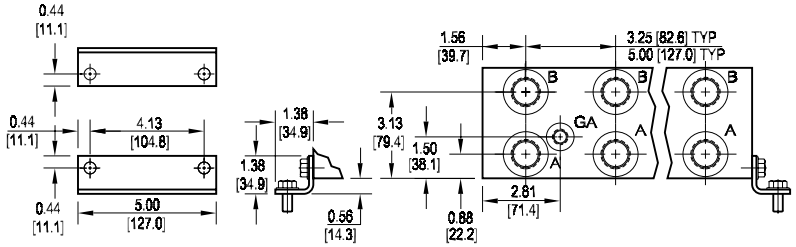
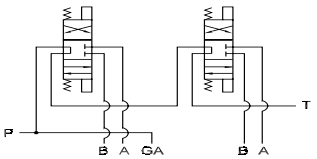
D05 High Flow Series Circuit Manifold





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 iron 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 iron lb [kg]	48 [22]	77 [35]	106 [48]

All mounting hardware is supplied.
See page 62 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

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Ordering Information

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

HS	Series Circuit 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	
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

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

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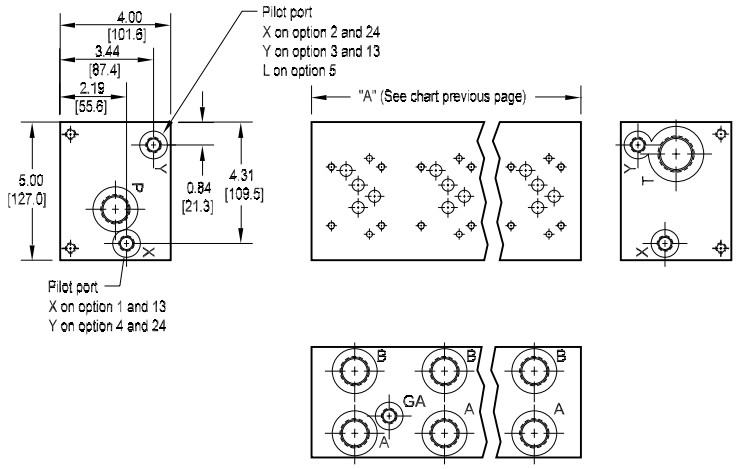
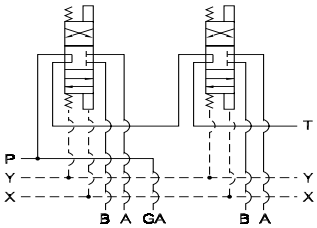
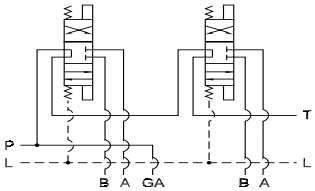
Options - D05 High Flow Series Manifold



Series Circuit with X & Y



Series Circuit with L



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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