

STANDARD MANIFOLDS

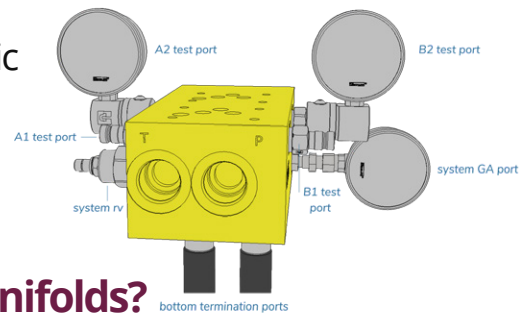
Subplate Mtd.Valve Cross Reference	Page 7
D02 Parallel Manifolds	Pages 8-9
D02 Series Manifolds	Pages 10-11
D03 Std. Flow Parallel Manifolds	Pages 12-13
D03 Std. Flow Bottom Ported Manifolds	Page 14
D03 Tank Line Feed Circuit Manifolds	Page 15
D03 High Flow Parallel Manifolds	Pages 16-17
D03 High Flow Flange Ported Manifolds	Pages 18-19
D03 High Flow Bottom Ported Manifolds	Page 20
D03 Series Manifolds	Pages 22-23
D05 Std. Flow Parallel Manifolds	Pages 24-25
D05 Std. Flow Bottom Ported Manifolds	Page 26
D05 Tank Line Feed Circuit Manifolds	Page 27
D05 High Flow Parallel Manifolds	Pages 28-29
D05 High Flow Flange Ported Manifolds	Pages 30-31
D05 High Flow Bottom Ported Manifolds	Pages 32-33
D05J Extra High Flow Parallel Manifolds	Pages 34-35
D05 Std. Flow Series Manifolds	Pages 36-37
D05 High Flow Series Manifolds	Pages 38-39
D07 Std. Flow Parallel Manifolds	Pages 40-41
D07 High Flow Parallel Manifolds	Pages 42-43
D07 High Flow Flange Ported Manifolds	Pages 44-45
D07 Series Manifolds	Page 46
D08 Std. Flow Parallel Manifolds	Pages 48-49
D08 High Flow Parallel Manifolds	Pages 50-51
D08 High Flow Flange Ported Manifolds	Pages 52-53
D08 Series Manifolds	Page 54
D10 Std. Flow Flange Ported Manifolds	Pages 56-57
D03/D05 FlexMount Manifolds	Pages 58-62
Mounting Bracket Riser Blocks	Page 63
Mounting Hardware	Pages 64-65



BOTTOM-PORTED DIAGNOSTIC MANIFOLDS

Quick-connect your diagnostics anytime without disrupting your system.

In the automotive industry, bottom-ported diagnostic manifolds are commonly used on machine tools to panel mount the manifold and hide all work port terminations inside the machine or panel.



Why choose bottom-ported diagnostic manifolds?

- Test ports on every valve station A & B allow for easy connection to diagnostics data on actuator extend and retract functions.
- P & T ports can be plumbed from either end of the manifold or from the bottom (side opposite valves).
- System relief valve cavity has been added to all D03 and D05 manifold options.
- A & B ports are located on the side opposite valves.
- Standard flow and high flow manifolds are available.
- System gauge port is included.

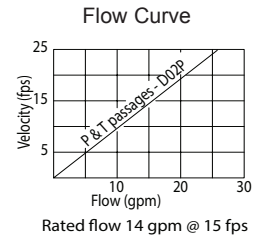
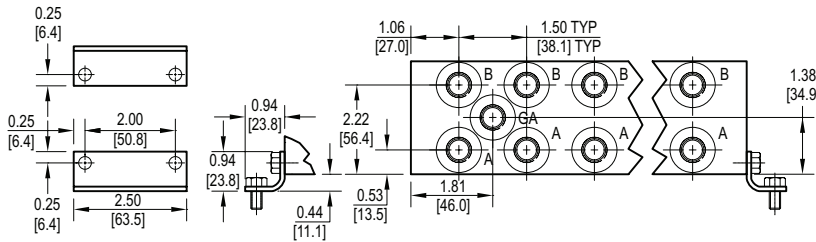
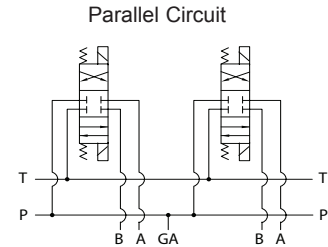
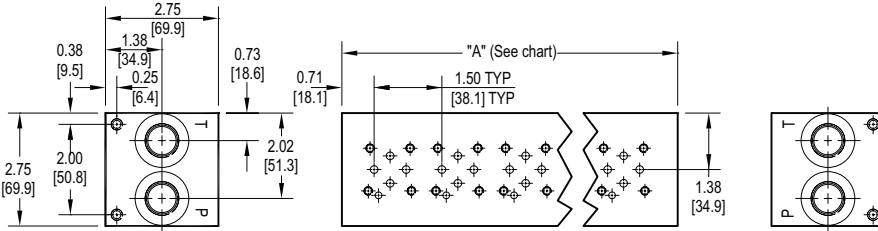
CONTACT US AT INFO@DAMAN.COM TO LEARN MORE

www.mfcp.com

Subplate Mtd. Valve Cross Reference

Daman / NFPA pattern no.	ISO no.	Bosch	CEI	Continental	Denison	Nachi	Northman	Parker	Rexroth	Rivett	Vickers	Cover Plates
D02	4401-02-01	--	--	--	--	--	--	--	--	--	DG4V-2	Valve Adaptors
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	Subplates
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	Servo Valve Subplates
D05 Alt. A (D05HE)	4401-05-05	--	--	--	--	--	--	D31DW	WEH10	--	(K)DG3V-5 (K)DG5V-5	Tapping Plates
D05 Alt. B (D05H)	--	FD4-**HS-*02	--	--	--	--	--	D31W D31VW	--	6***-D05H	DG5S4-02	Cartridge Valve Bodies
D06	--	FD4-**HS-*04	VS-63	--	--	--	--	--	--	--	DG4S4-02 (obsolete)	Header and Junction Blocks
D07	4401-07-06	081WV16P1	--	--	A-3D03 A4D03 4DPD03	DSS-G04	G04	--	WEH16	--	DG5S4-04 (K)DG3V-7 (K)DG5V-7	Sandwich Modules
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	Technical Information
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	

D02 Parallel Circuit Manifold



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

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]

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

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

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

Valve Spacing	
1	1.50 inch 38.1 mm

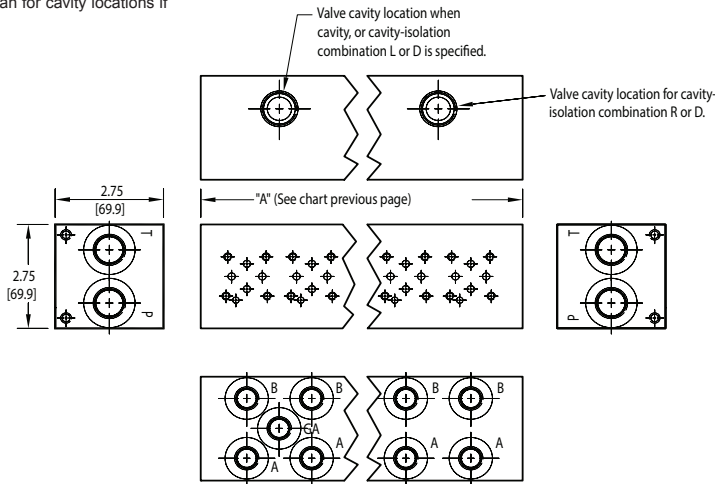
No. of Stations	
Aluminum	
01...10	Available with spacing code 1
Ductile Iron	
01...10	Available with spacing code 1

Options	
See next page for available options and ordering codes.	

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	BSP • ISO 1179	0.50	0.38	none
M	ISO • ISO 6149	M18	M14	none
T	BSPT • ISO 7	0.50	0.38	none

Options - D02 Parallel Manifold

Contact Daman for cavity locations if critical.



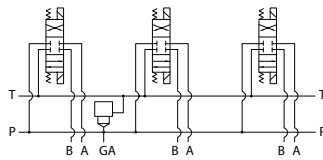
ISOLATIONS

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

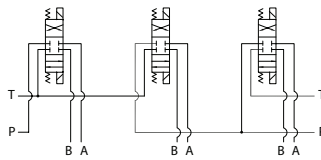
* Stations are numbered left to right.

Parallel Circuit with Cavity



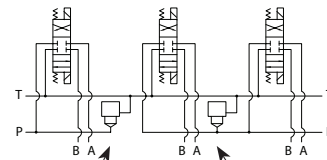
Valves with P in the nose and T out the side must be used.

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 availability.

Ordering Information



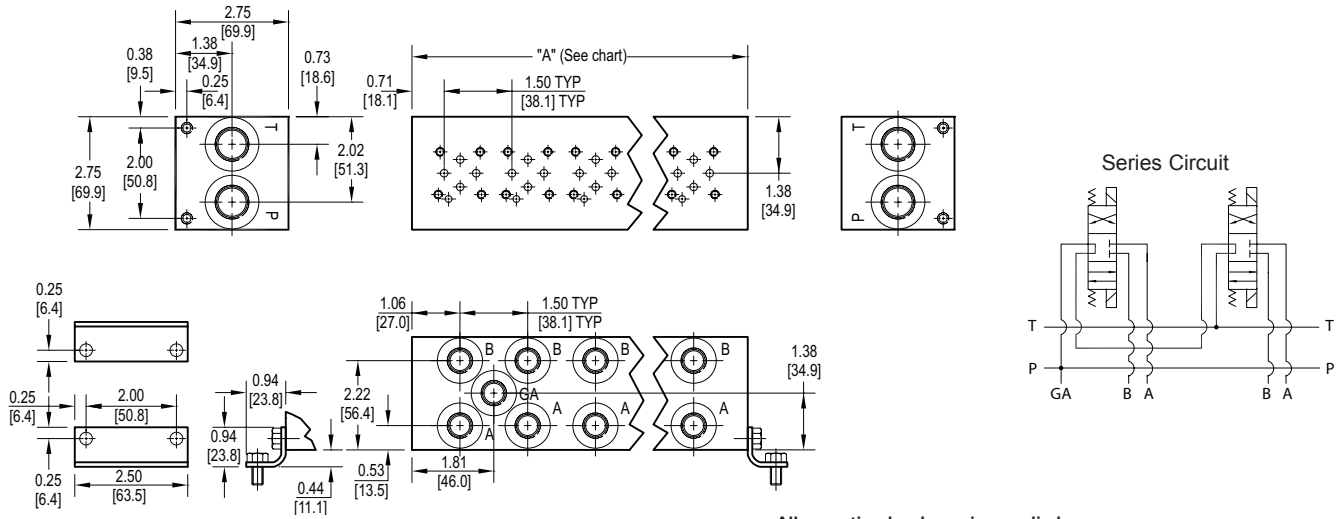
Cavity	
Omit if cavity not required.	
C	Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity T-162A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 1

Pressure Isolation	
Omit if P isolation not required	
PA...PJ	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.

D02 Series Circuit Manifold



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

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]

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.

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.

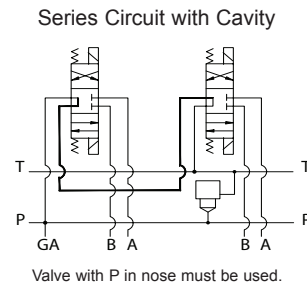
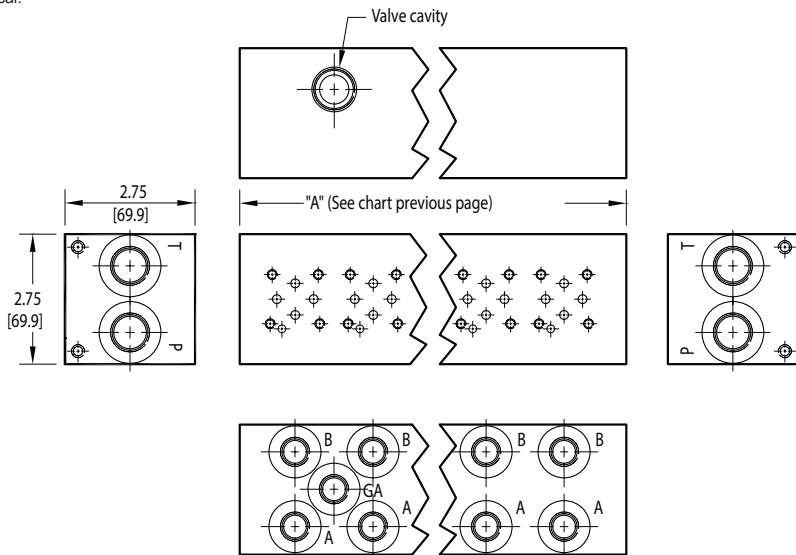
Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options																																																															
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> </tr> </tbody> </table>	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.		<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D02</td> <td>ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D02	ISO 4401-02-01 NFPA T3.5.1-D02 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Series Circuit</td> </tr> </tbody> </table>	Circuit		S	Series Circuit	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 1</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 1</td> </tr> </tbody> </table>	No. of Stations		Aluminum		02...04	Available with spacing code 1	Ductile Iron		02...04	Available with spacing code 1	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.50 inch 38.1 mm</td> </tr> </tbody> </table>	Valve Spacing		1	1.50 inch 38.1 mm	<table border="1"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P & T</th> <th>A & B</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.50</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-8</td> <td>-6</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.50</td> <td>0.38</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M18</td> <td>M14</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>0.50</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
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.																																																																						

Options - D02 Series Manifold

Contact Daman for cavity locations if critical.

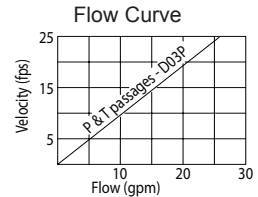
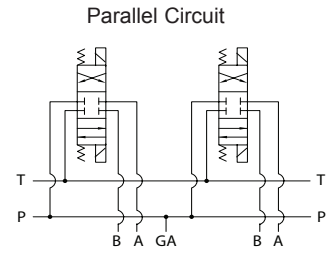
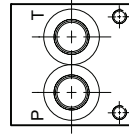
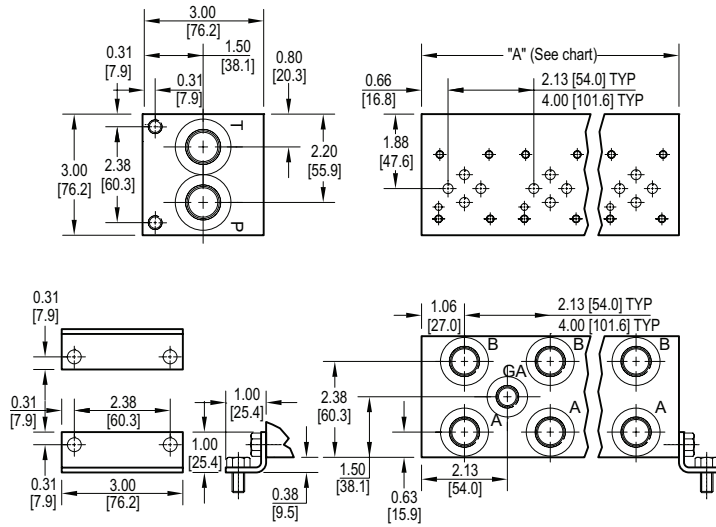


Ordering Information



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.

D03 Standard Flow Parallel Circuit Manifold



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]	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 .			
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]				

* 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

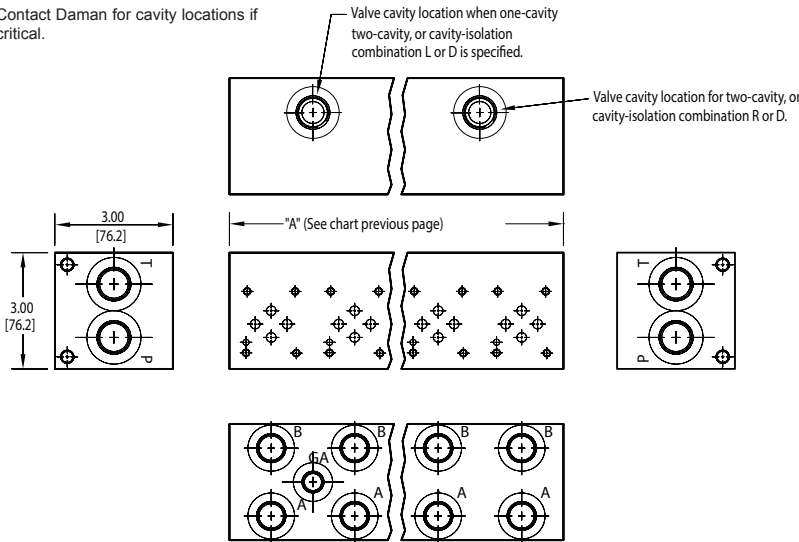
For **coating options** see pages 245-246.

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																															
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000[†] psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000[†] psi • 34.5 MPa</td> </tr> <tr> <td>S*</td> <td>Stainless Steel - 17-4 5000[†] psi • 34.5 MPa</td> </tr> </tbody> </table> <p>[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p> <p>*All stainless steel products are passivated.</p>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D03</td> <td>ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Parallel Circuit Standard Flow</td> </tr> </tbody> </table>	Circuit		P	Parallel Circuit Standard Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...20</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...16</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...16</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...16</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2">Stainless Steel</td> </tr> <tr> <td>01...09</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...05</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2.13 inch 54.0 mm</td> </tr> <tr> <td>4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		2	2.13 inch 54.0 mm	4	4.00 inch 101.6 mm	<table border="1"> <thead> <tr> <th colspan="4">Port Threads</th> </tr> <tr> <th>P*</th> <th>P & T</th> <th>A & B</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P*</td> <td>NPTF • ANSI B1.20.3</td> <td>0.50</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-10</td> <td>-8</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.50</td> <td>0.38</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M22</td> <td>M18</td> <td>none</td> </tr> <tr> <td>T*</td> <td>BSPT • ISO 7</td> <td>0.50</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table> <p>* Pipe ports in stainless can experience galling</p>	Port Threads				P*	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
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																																																																																				
Valve Pattern																																																																																					
D03	ISO 4401-03-02 NFFPA 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*	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																																																																																	
Options																																																																																					
See next page for available options and ordering codes.																																																																																					

Options - D03 Standard Flow Parallel Manifold

Contact Daman for cavity locations if critical.

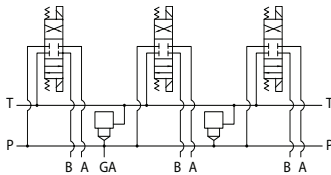


ISOLATIONS

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.

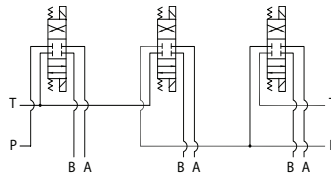
Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-14
B	02 & 03	03-15
C	03 & 04	04-16
D	04 & 05	05-17
E	05 & 06	06-18
F	06 & 07	07-19
G	07 & 08	08-20
H	08 & 09	09-20
J	09 & 10	10-20
4.00 [101.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11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

Parallel Circuit with one or two Cavities



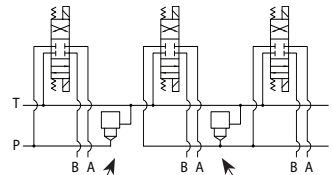
Valves with P in the nose and T out the side must be used.

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

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

Ordering Information

...	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations
-----	---------------	---------------------------	-----------------------	--

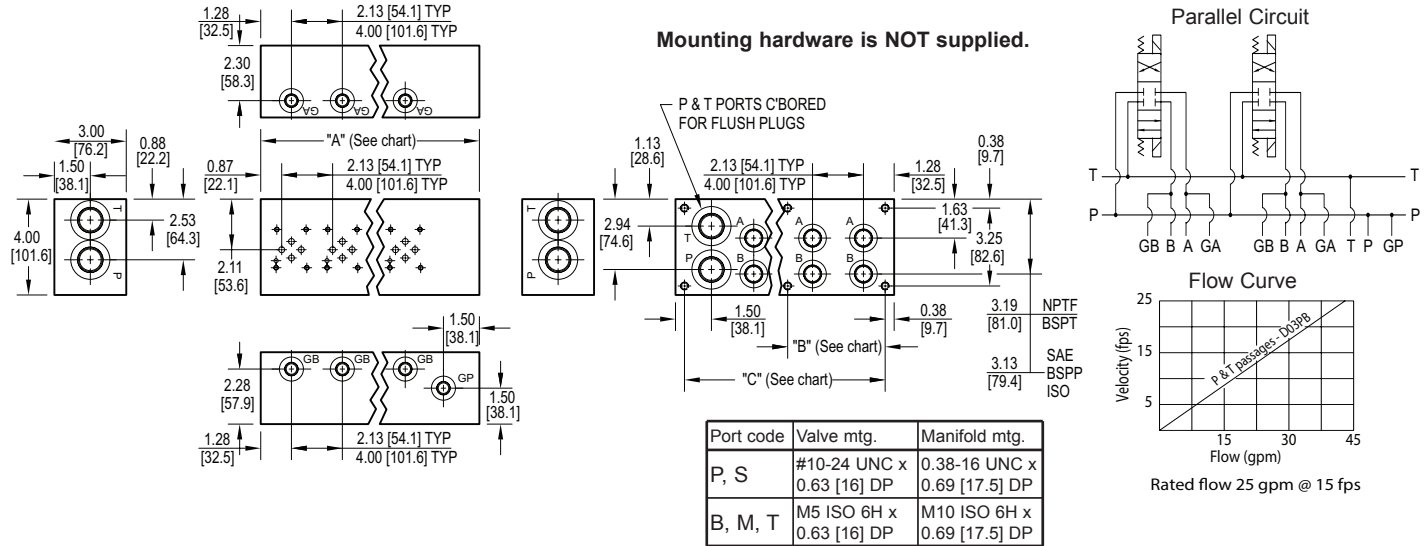
Cavity	
Omit if cavities not required	
C	One Common cavity: No solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
CC	Two Common cavities: With solenoid clearance C-10-2 (P in nose) Available 03-20 stations with spacing code 2; Available 02-16 stations with spacing code 4. Not available in 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.)

D03 Standard Flow Bottom Ported Manifold With A & B Test Ports



No. of stations	*01	02	03	04	05	06	07	08	09	10	11	12	No. of stations	02	03	04	05	06
"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]	"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 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.34 [211.9]	8.34 [211.9]	10.47 [265.9]	10.47 [265.9]	12.59 [319.9]	"B" dim (code 4 spa.) inch [mm]	--	--	--	10.91 [277.0]	10.91 [277.0]
"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]	"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]	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 alum lb [kg]	10 [5]	15 [7]	20 [9]	24 [11]	29 [13]
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]	apx. weight ferrous lb [kg]	26 [12]	39 [18]	51 [23]	64 [29]	76 [34]

* Length of 01 station with relief cavity is 5.00 [127.0]

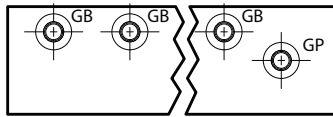
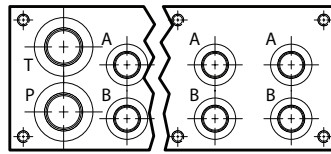
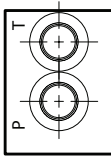
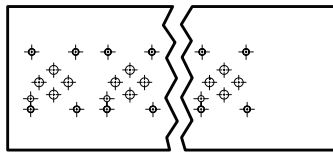
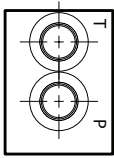
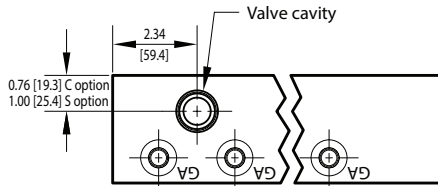
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

For coating options see pages 245-246.

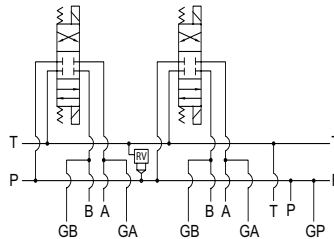
Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																		
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D03</td> <td>ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>PB</td> <td>Parallel Circuit Standard Flow Bottom Ported</td> </tr> </tbody> </table>	Circuit		PB	Parallel Circuit Standard Flow Bottom Ported	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...12</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...12</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2.13 inch 54.0 mm</td> </tr> <tr> <td>4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		2	2.13 inch 54.0 mm	4	4.00 inch 101.6 mm	<table border="1"> <thead> <tr> <th colspan="4">Port Threads</th> </tr> <tr> <th></th> <th>P & T</th> <th>A & B</th> <th>G*</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-4</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>0.25</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M18</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>0.25</td> </tr> </tbody> </table>	Port Threads					P & T	A & B	G*	P	NPTF • ANSI B1.20.3	0.75	0.25	S	SAE • ISO 11926	-12	-4	B	BSPP • ISO 1179	0.75	0.25	M	ISO • ISO 6149	M27	M18	T	BSPT • ISO 7	0.75	0.25	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																								
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																							
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																							
Valve Pattern																																																																								
D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information																																																																							
Circuit																																																																								
PB	Parallel Circuit Standard Flow Bottom Ported																																																																							
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																																																																							
Valve Spacing																																																																								
2	2.13 inch 54.0 mm																																																																							
4	4.00 inch 101.6 mm																																																																							
Port Threads																																																																								
	P & T	A & B	G*																																																																					
P	NPTF • ANSI B1.20.3	0.75	0.25																																																																					
S	SAE • ISO 11926	-12	-4																																																																					
B	BSPP • ISO 1179	0.75	0.25																																																																					
M	ISO • ISO 6149	M27	M18																																																																					
T	BSPT • ISO 7	0.75	0.25																																																																					
Options																																																																								
See next page for available options and ordering codes.																																																																								

Options - D03 Standard Flow Bottom Ported Manifold With A & B Test Ports



Parallel circuit with one cavity.



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

Ordering Information

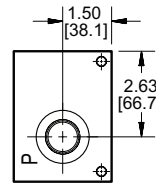
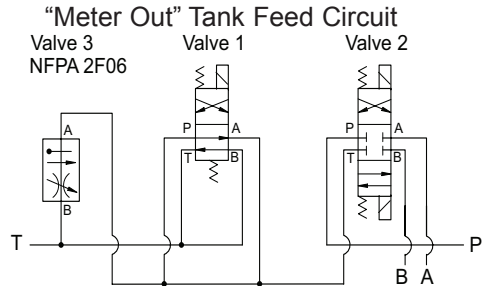
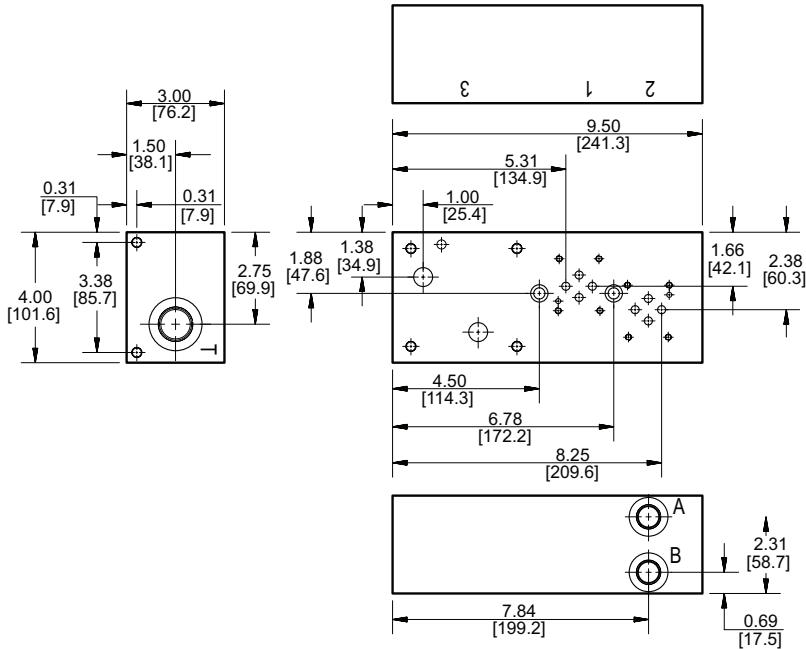


Cavity	
Omit if cavities not required	
C	One Common cavity: No solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
S	One Sun Cavity: T-10A (P in nose) See Tech Info for valves.

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



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; minimum 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.

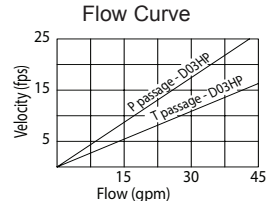
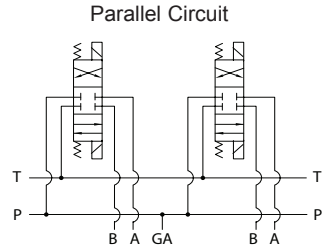
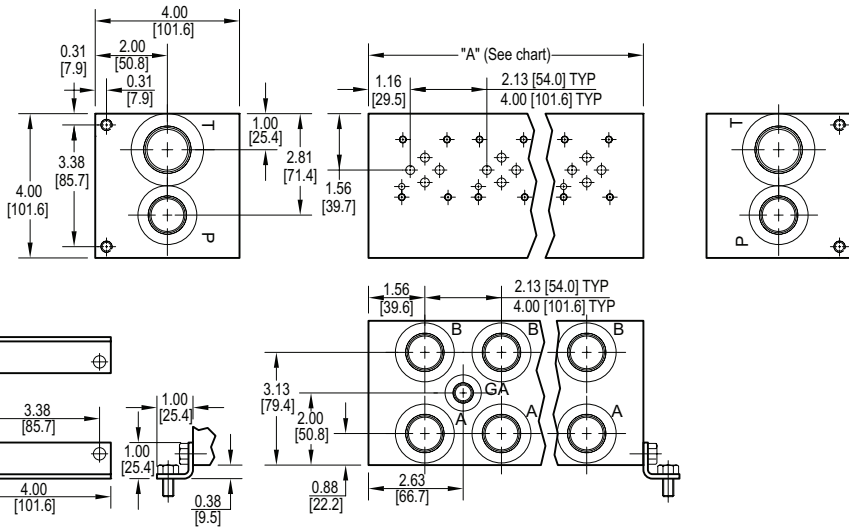
Circuit	
TF	Tank Line Feed Circuit

Valve Pattern	
D03	ISO 4401-03-02 NFA T3.5.1-D03 See Tech Information
Flow Control Pattern (REF): 2F06 Pattern ISO 6263-06-05 NFA T3.5.1-2F06	

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

D03 High Flow Parallel Circuit Manifolds 

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

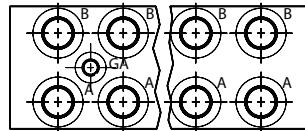
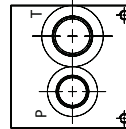
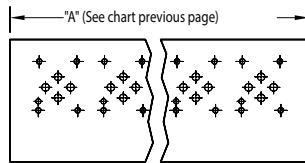
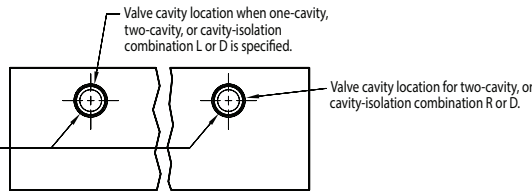
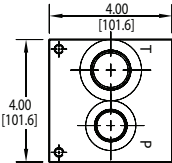
For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">D03</td> <td>ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech information</td> </tr> </tbody> </table>	Valve Pattern		D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech information	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Aluminum</td> </tr> <tr> <td style="text-align: center;">01...18</td> <td>Available with spacing code 2</td> </tr> <tr> <td style="text-align: center;">02...11</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2" style="text-align: center;">Ductile Iron</td> </tr> <tr> <td style="text-align: center;">01...16</td> <td>Available with spacing code 2</td> </tr> <tr> <td style="text-align: center;">02...10</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2</td> <td>2.13 inch 54.0 mm</td> </tr> <tr> <td style="text-align: center;">4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		2	2.13 inch 54.0 mm	4	4.00 inch 101.6 mm	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P,A,B</th> <th>T</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>1.00</td> <td>0.25</td> </tr> <tr> <td style="text-align: center;">S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-16</td> <td>-6</td> </tr> <tr> <td style="text-align: center;">B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>1.00</td> <td>none</td> </tr> <tr> <td style="text-align: center;">M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M33</td> <td>none</td> </tr> <tr> <td style="text-align: center;">T</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>1.00</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																										
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																									
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																									
Valve Pattern																																																																										
D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech information																																																																									
Circuit																																																																										
HP	Parallel Circuit High Flow																																																																									
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																																																																									
Valve Spacing																																																																										
2	2.13 inch 54.0 mm																																																																									
4	4.00 inch 101.6 mm																																																																									
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																																																																						
Options																																																																										
See next page for available options and ordering codes.																																																																										

Options - D03 High Flow Parallel Manifold

Contact Daman for cavity locations if critical.

Diameter and depth of locating shoulder for C-16-2 allows for installation of most solenoid valves. Consult factory as needed.

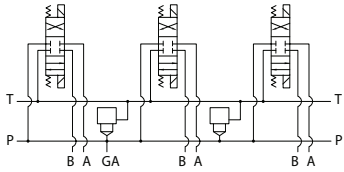


ISOLATIONS

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.

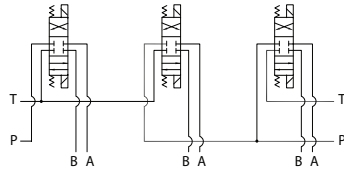
Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-14
B	02 & 03	03-15
C	03 & 04	04-16
D	04 & 05	05-17
E	05 & 06	06-18
F	06 & 07	07-18
G	07 & 08	08-18
H	08 & 09	09-18
J	09 & 10	10-18
4.00 [101.6] spacing		
A	01 & 02	02-10
B	02 & 03	03-11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

Parallel Circuit with one or two Cavities



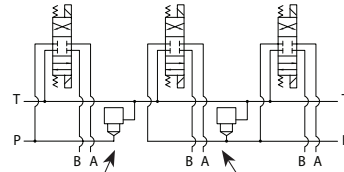
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



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

Cavity & Isolation Combinations



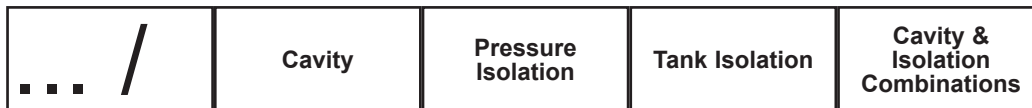
Option code L: Cavity left of isolation
Option code R: Cavity right of isolation
Option code D includes both cavities

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

Ordering Information



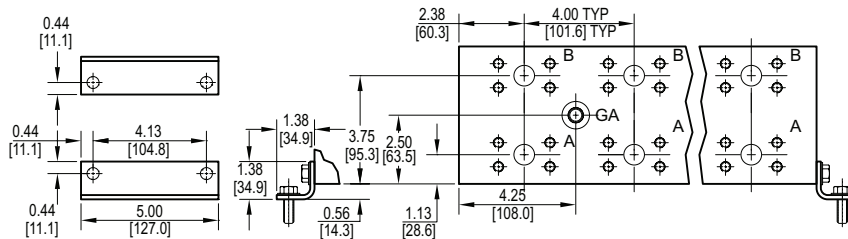
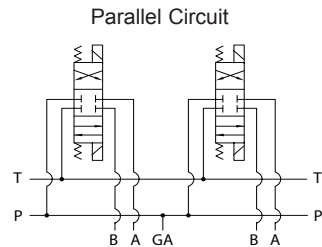
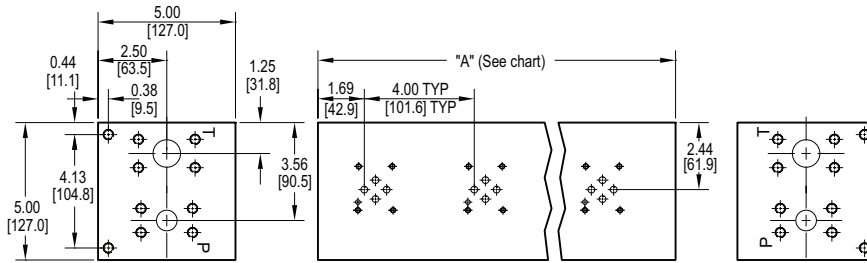
Cavity	
Omit if cavities not required	
C	One Common cavity: C-16-2 (P in nose)
CC	Two Common cavities: C-16-2 (P in nose) Available 03-18 stations with spacing code 2; Available 02-11 stations with spacing code 4. Not available in combination with isolation options.
S	One Sun Cavity: T-3A (P in nose)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

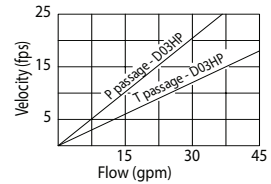
Tank Isolation	
Omit if T isolation not required	
TA...TJ	Available with spacing code 2
TA...TG	Available with spacing code 4

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.)

D03 High Flow Parallel Circuit Manifold - Flange Ports



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	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.

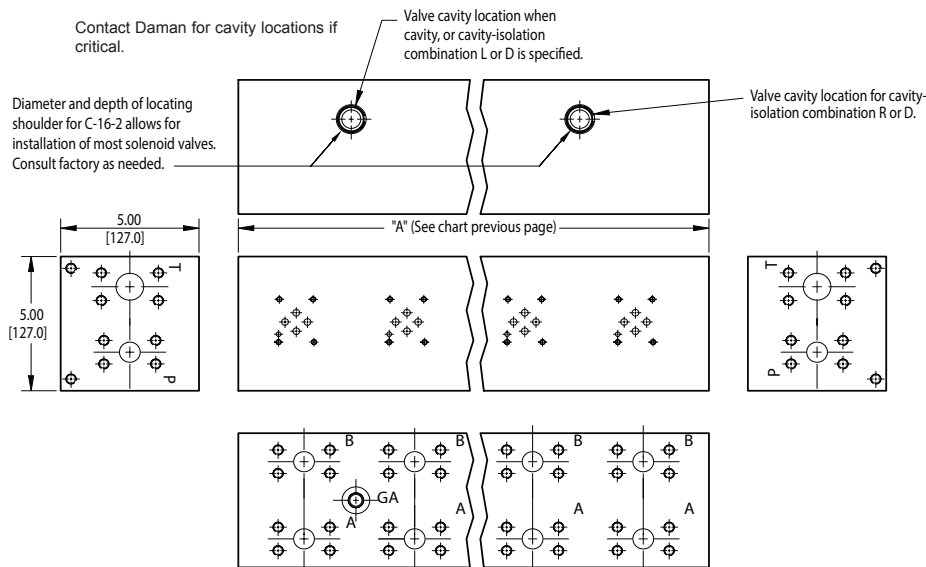
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td>Aluminum - 6061-T6 3000[†] psi • 20.7 MPa</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Ductile Iron - D4512 5000[†] psi • 34.5 MPa</td> </tr> </tbody> </table> <p>[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa	D	Ductile Iron - D4512 5000 [†] psi • 34.5 MPa	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">D03</td> <td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">01...12</td> <td>Aluminum or Ductile Iron Available with spacing code 4</td> </tr> </tbody> </table>	No. of Stations		01...12	Aluminum or Ductile Iron Available with spacing code 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		4	4.00 inch 101.6 mm	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Port Threads</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">F</td> <td>CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa</td> <td style="text-align: center;">P,A,B 0.75 CODE 61</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">T 1.00 CODE 61</td> </tr> </tbody> </table>	Port Threads			F	CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	P,A,B 0.75 CODE 61			T 1.00 CODE 61	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																									
A	Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa																																								
D	Ductile Iron - D4512 5000 [†] psi • 34.5 MPa																																								
Valve Pattern																																									
D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information																																								
Circuit																																									
HP	Parallel Circuit High Flow																																								
No. of Stations																																									
01...12	Aluminum or Ductile Iron Available with spacing code 4																																								
Valve Spacing																																									
4	4.00 inch 101.6 mm																																								
Port Threads																																									
F	CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	P,A,B 0.75 CODE 61																																							
		T 1.00 CODE 61																																							
Options																																									
See next page for available options and ordering codes.																																									

Options - D03 High Flow Parallel Manifold Flange Ports

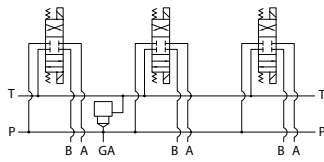


ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-10
B	02 & 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.

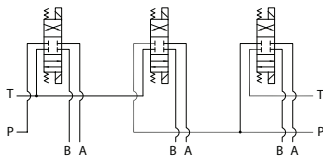
- NOTES:**
- 1) The GA port is not available when a pressure isolation is located between stations 1 & 2.
 - 2) Some cavity and isolation combinations are not possible. Consult factory to determine availability.

Parallel Circuit with Cavity



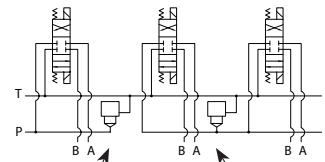
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



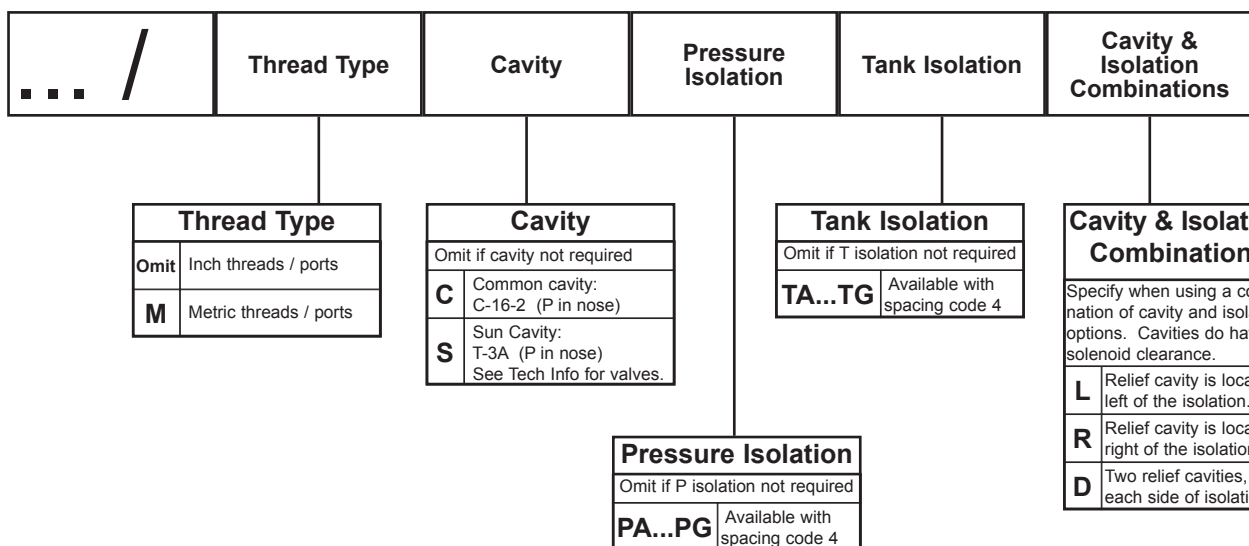
Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations

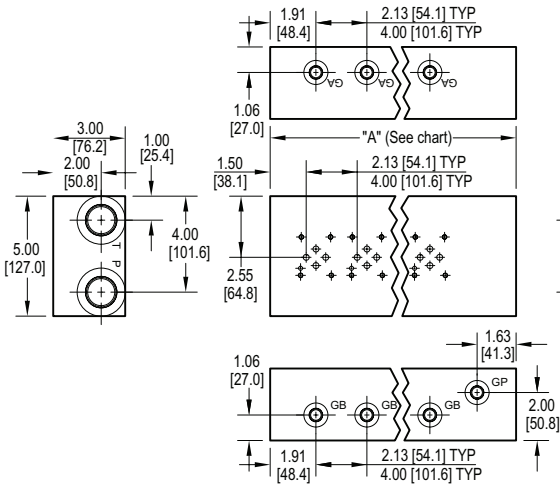


Option code L Cavity left of isolation
Option code R Cavity right of isolation
Option code D includes both cavities

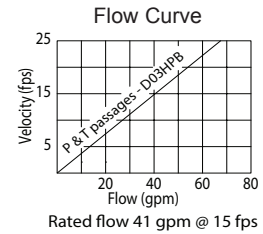
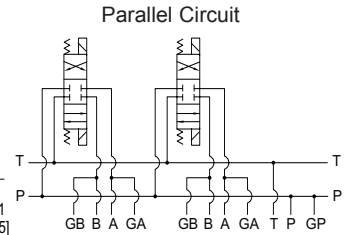
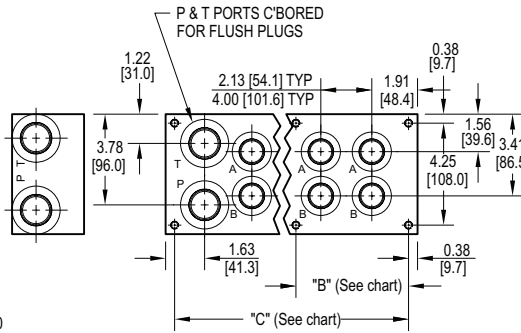
Ordering Information



D03 High Flow Bottom Ported Manifold With A & B Test Ports



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

No. of stations	01	02	03	04	05	06	07	08	09	10	No. of stations	02	03	04	05	06
"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]	"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 2 spa.) inch [mm]	--	--	--	--	--	--	--	8.97 [227.8]	11.09 [281.8]	11.09 [281.8]	"B" dim (code 4 spa.) inch [mm]	--	--	--	11.53 [292.9]	11.53 [292.9]
"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]	"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]	8 [4]	11 [5]	15 [7]	18 [8]	21 [10]	24 [11]	27 [12]	31 [14]	34 [15]	37 [17]	apx. weight alum lb [kg]	14 [6]	20 [9]	26 [12]	32 [15]	38 [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]	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

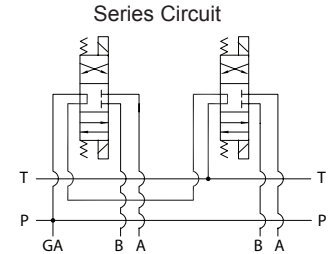
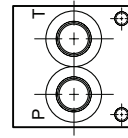
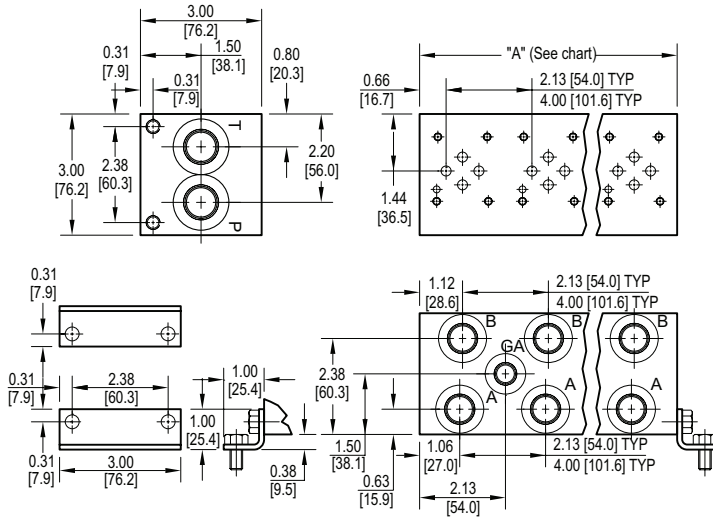
Valve Pattern	
D03	ISO 4401-03-02 NFFPA T3.5.1-D03 See Tech Information

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

D03 Series Circuit Manifolds

D03 Series Circuit Manifold



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

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]				

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.

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

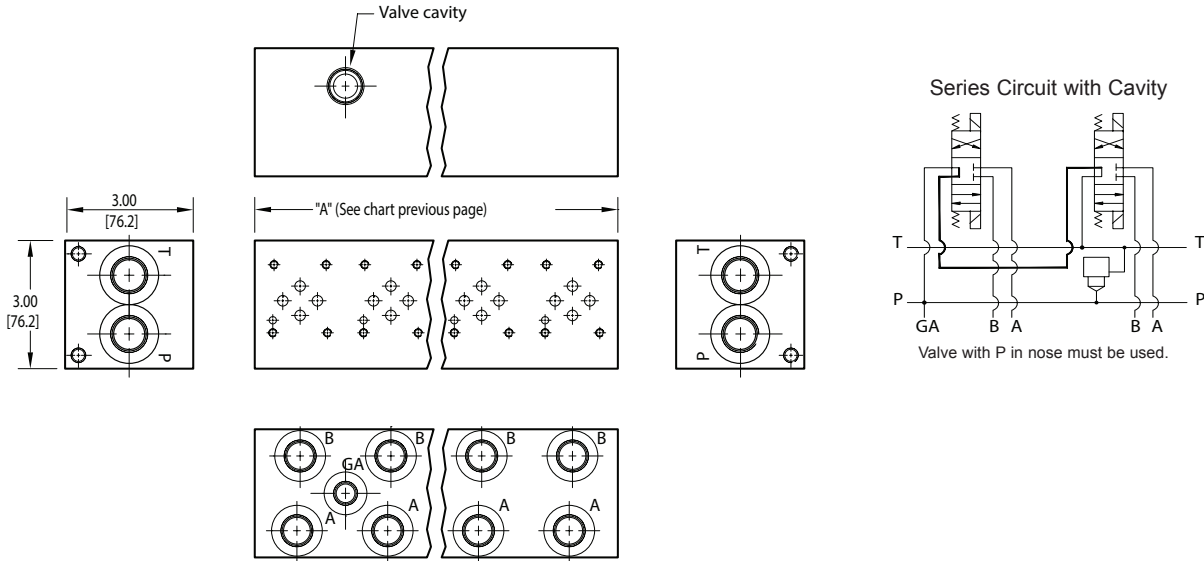
For **coating options**
see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																						
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td>S*</td> <td>Stainless Steel - 17-4 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p> <p>*All stainless steel products are passivated.</p>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D03</td> <td>ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D03	ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Series Circuit</td> </tr> </tbody> </table>	Circuit		S	Series Circuit	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>02...08</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2">Stainless Steel</td> </tr> <tr> <td>02...08</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2.13 inch 38.1 mm</td> </tr> <tr> <td>4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		2	2.13 inch 38.1 mm	4	4.00 inch 101.6 mm	<table border="1"> <thead> <tr> <th colspan="4">Port Threads</th> </tr> </thead> <tbody> <tr> <td>P*</td> <td>NPTF • ANSI B1.20.3</td> <td>0.50</td> <td>0.38</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-10</td> <td>-8</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.50</td> <td>0.38</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M22</td> <td>M18</td> </tr> <tr> <td>T*</td> <td>BSPT • ISO 7</td> <td>0.50</td> <td>0.38</td> </tr> </tbody> </table>	Port Threads				P*	NPTF • ANSI B1.20.3	0.50	0.38	S	SAE • ISO 11926	-10	-8	B	BSPP • ISO 1179	0.50	0.38	M	ISO • ISO 6149	M22	M18	T*	BSPT • ISO 7	0.50	0.38	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
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																																																																											
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*	NPTF • ANSI B1.20.3	0.50	0.38																																																																									
S	SAE • ISO 11926	-10	-8																																																																									
B	BSPP • ISO 1179	0.50	0.38																																																																									
M	ISO • ISO 6149	M22	M18																																																																									
T*	BSPT • ISO 7	0.50	0.38																																																																									
Options																																																																												
See next page for available options and ordering codes.																																																																												

* Pipe ports in stainless can experience galling

Options - D03 Series Manifold

Contact Daman for cavity locations if critical.

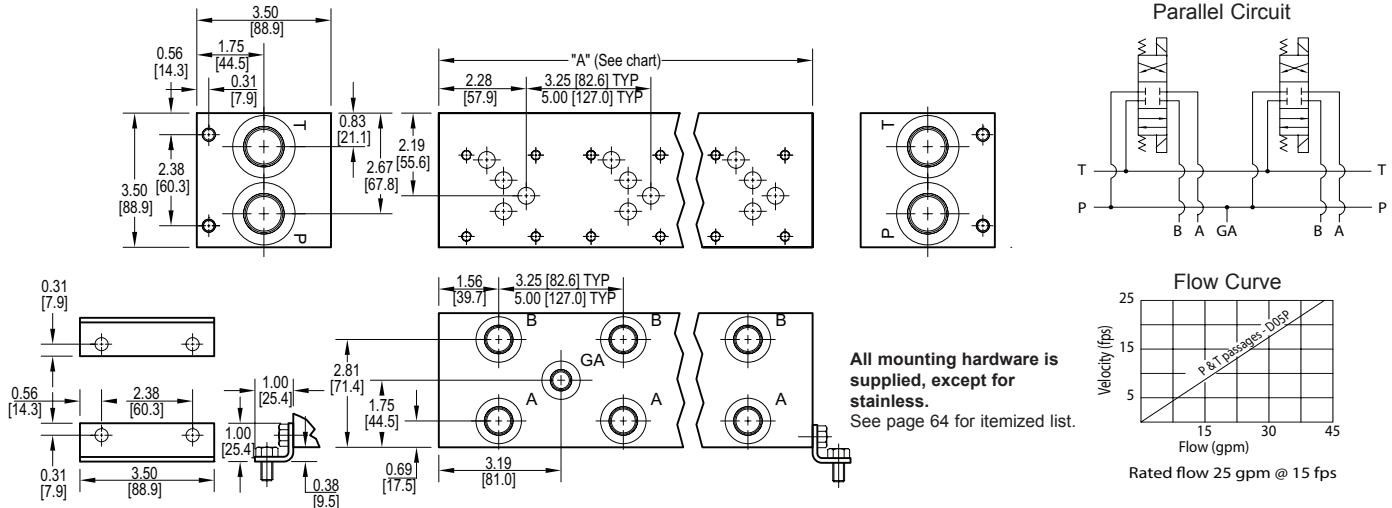


Ordering Information



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.

D05 Standard Flow Parallel Manifold



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]	--	--	--	--	--							

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

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

Ordering Information

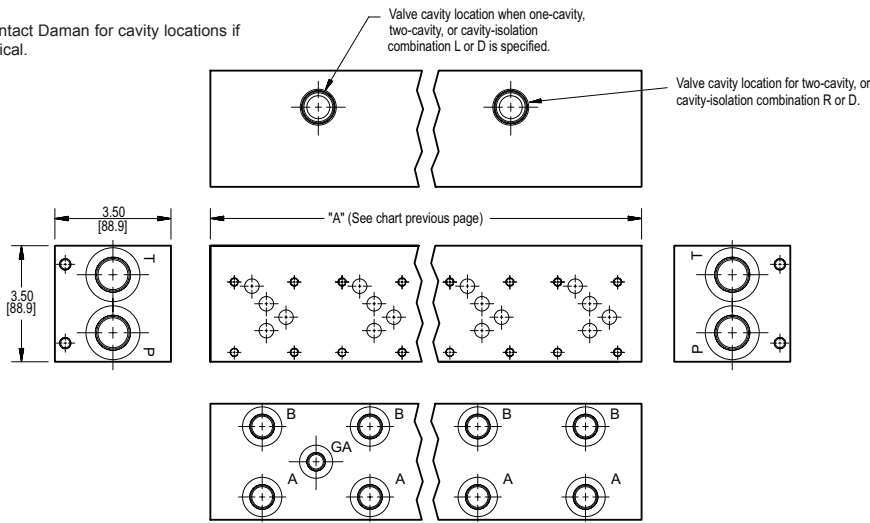
For **coating options** see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																																	
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td>S*</td> <td>Stainless Steel - 17-4 5000† psi • 34.5 MPa</td> </tr> <tr> <td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> </tr> </tbody> </table>	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.		<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D05</td> <td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Parallel Circuit Standard Flow</td> </tr> </tbody> </table>	Circuit		P	Parallel Circuit Standard Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...21</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...14</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...12</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...09</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Stainless Steel</td> </tr> <tr> <td>01...06</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3.25 inch 82.6 mm</td> </tr> <tr> <td>5</td> <td>5.00 inch 127.0 mm</td> </tr> </tbody> </table>	Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table border="1"> <thead> <tr> <th colspan="4">Port Threads</th> </tr> <tr> <th></th> <th>P & T</th> <th>A & B</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P*</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>0.50</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-8</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>0.50</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M18</td> <td>none</td> </tr> <tr> <td>T*</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>0.50</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
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.																																																																																							
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																																																																																			
Options																																																																																							
See next page for available options and ordering codes.																																																																																							

* Pipe ports in stainless can experience galling

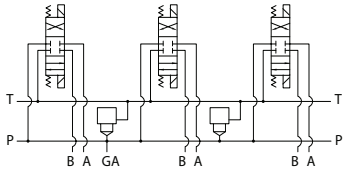
Options - D05 Standard Flow Parallel Manifold

Contact Daman for cavity locations if critical.



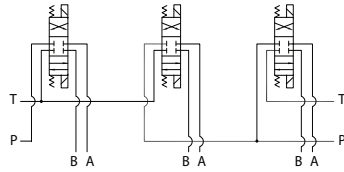
ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
3.25 [82.6] spacing		
A	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

Parallel Circuit with one or two Cavities



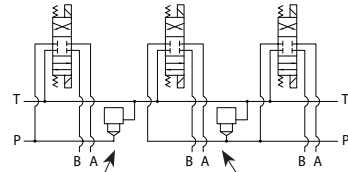
Valves with P in the nose and T out the side must be used.

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

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

Ordering Information

...	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations
-----	--------	--------------------	----------------	---------------------------------

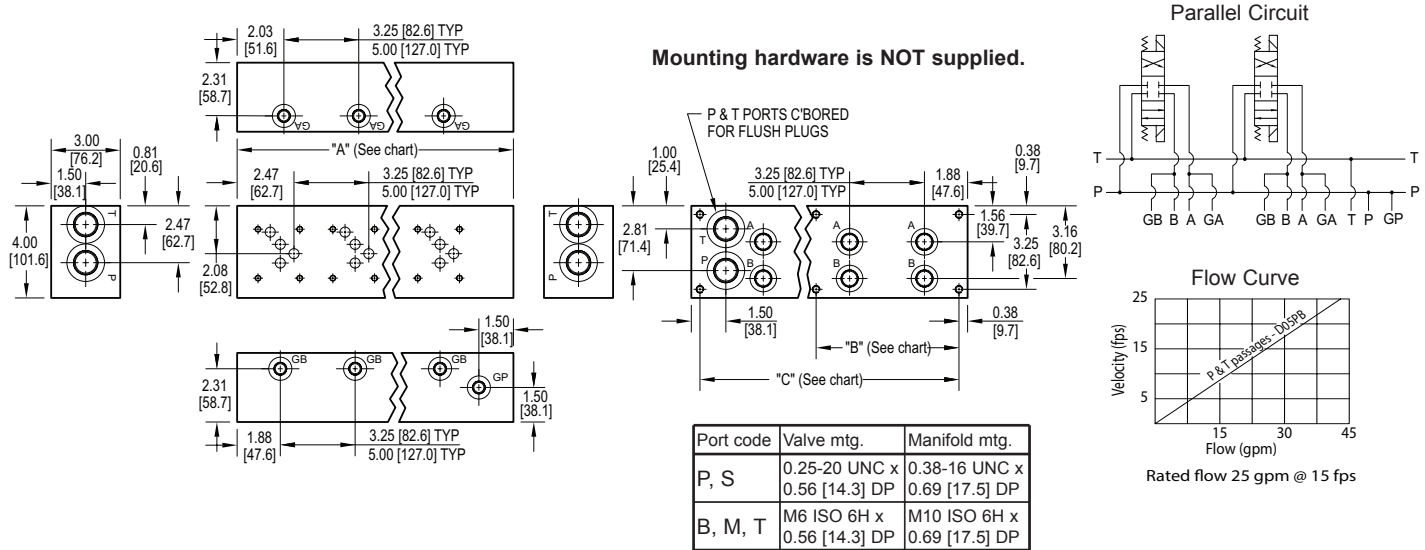
Cavity	
Omit if cavities not required	
C	One Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.
CC	Two Common cavities: With solenoid clearance C-10-2 (P in nose) Available 03-21 stations with spacing code 3; Available 02-14 stations with spacing code 5. Not available 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.)

D05 Standard Flow Bottom Ported Manifold With A & B Test Ports



No. of stations	*01	02	03	04	05	06	07	08	09	10	No. of stations	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]	"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 3 spacing	--	--	--	--	--	9.63 [244.5]	9.63 [244.5]	12.88 [327.0]	12.88 [327.0]	16.13 [409.6]	"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 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]	"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]	6 [3]	10 [4]	14 [6]	18 [8]	22 [10]	26 [12]	29 [13]	33 [15]	37 [17]	41 [19]	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]	16 [7]	26 [12]	36 [16]	46 [21]	56 [25]	66 [30]	76 [35]	87 [39]	97 [44]	107 [48]	apx. weight ferrous lb [kg]	31 [14]	47 [21]	62 [28]	78 [35]	94 [42]	109 [49]	125 [57]	140 [64]	156 [71]

* Length of 01 station with relief cavity is 6.25 [158.8]

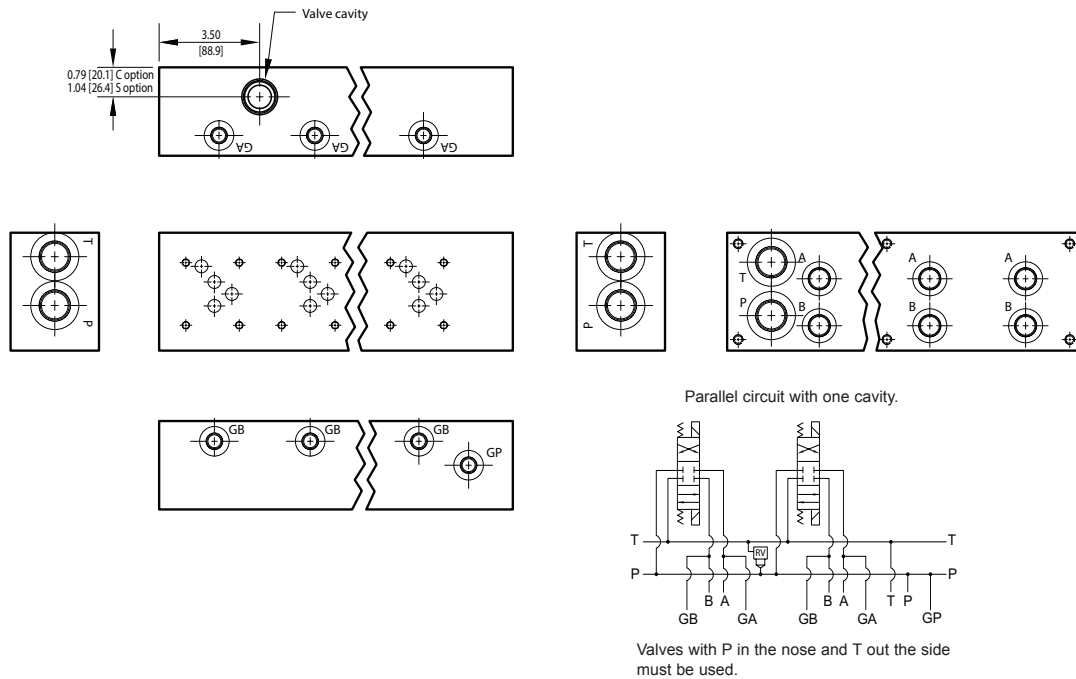
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

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

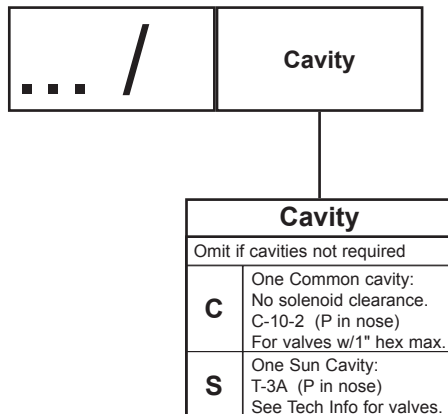
Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																														
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D05</td> <td>ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D05	ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>PB</td> <td>Parallel Circuit Standard Flow Bottom Ported</td> </tr> </tbody> </table>	Circuit		PB	Parallel Circuit Standard Flow Bottom Ported	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...10</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...10</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...10</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...10</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3.25 inch 82.6 mm</td> </tr> <tr> <td>5</td> <td>5.00 inch 127.0 mm</td> </tr> </tbody> </table>	Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table border="1"> <thead> <tr> <th colspan="4">Port Threads</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>P & T</td> <td>0.75</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>A & B</td> <td>-12</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>G*</td> <td>-8</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td></td> <td>-4</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td></td> <td></td> </tr> </tbody> </table>	Port Threads				P	NPTF • ANSI B1.20.3	P & T	0.75	S	SAE • ISO 11926	A & B	-12	B	BSPP • ISO 1179	G*	-8	M	ISO • ISO 6149		-4	T	BSPT • ISO 7			<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																				
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																			
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																			
Valve Pattern																																																																				
D05	ISO 4401-05-04 NFFA 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	NPTF • ANSI B1.20.3	P & T	0.75																																																																	
S	SAE • ISO 11926	A & B	-12																																																																	
B	BSPP • ISO 1179	G*	-8																																																																	
M	ISO • ISO 6149		-4																																																																	
T	BSPT • ISO 7																																																																			
Options																																																																				
See next page for available options and ordering codes.																																																																				

Options - D05 Standard Flow Bottom Ported Manifold With A & B Test Ports



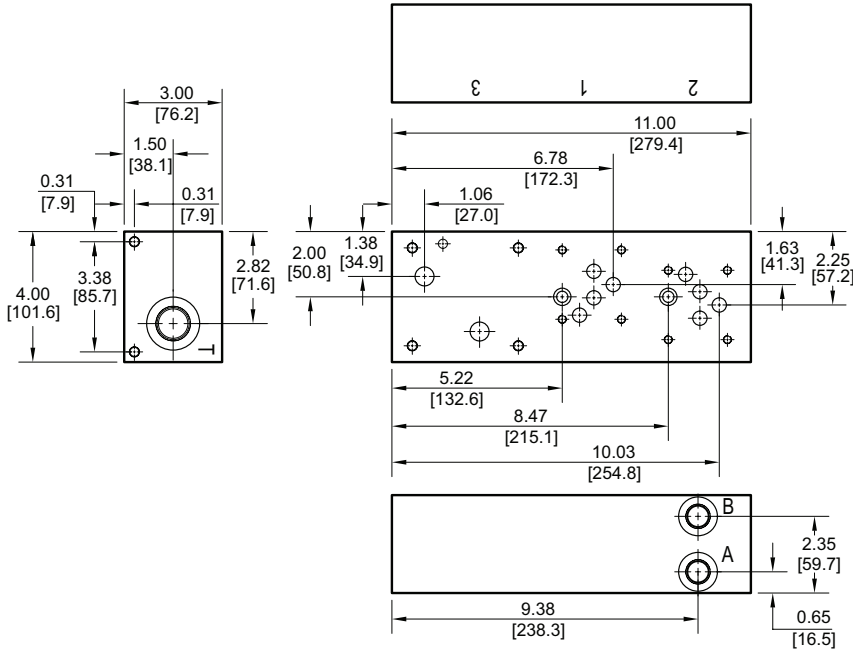
Ordering Information



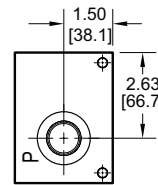
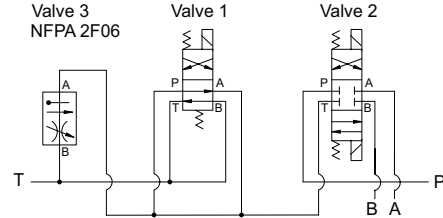
D05 Tank Line Feed Circuit Manifold

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; minimum 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.

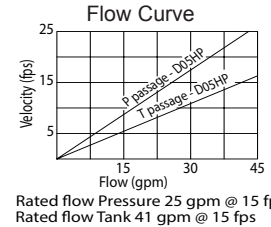
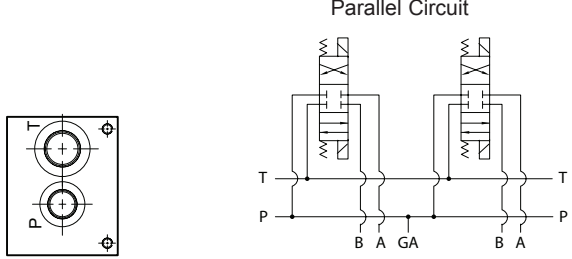
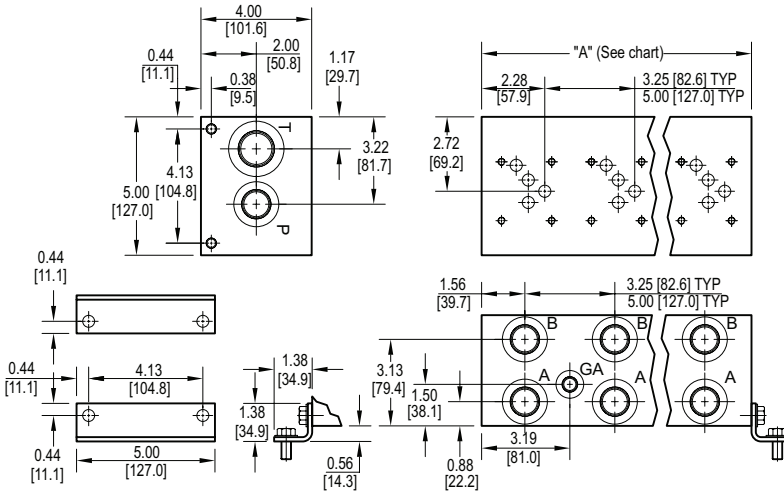
Circuit	
TF	Tank Line Feed Circuit

Valve Pattern	
D05	ISO 4401-05-04 NFFPA T3.5.1-D05 See Tech Information
	Flow Control Pattern (REF): 2F06 Pattern ISO 6263-06-05 NFFPA T3.5.1-2F06

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

D05 High Flow Parallel Circuit Manifolds 

D05 High Flow Parallel Circuit Manifold



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. 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																																																																										
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D05</td> <td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...21</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...14</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...21</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...14</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3.25 inch 82.6 mm</td> </tr> <tr> <td>5</td> <td>5.00 inch 127.0 mm</td> </tr> </tbody> </table>	Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table border="1"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P,A,B</th> <th>T</th> <th>X,Y,L optional</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-16</td> <td>-6</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M33</td> <td>M14</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																																
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																															
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																															
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.																																																																																

Options - D05 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	03-11
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

Parallel Circuit with Isolations

Cavity & Isolation Combinations

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

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

Option code L Cavity left of isolation Option code R Cavity right of isolation
Option code D includes both cavities

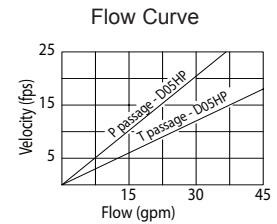
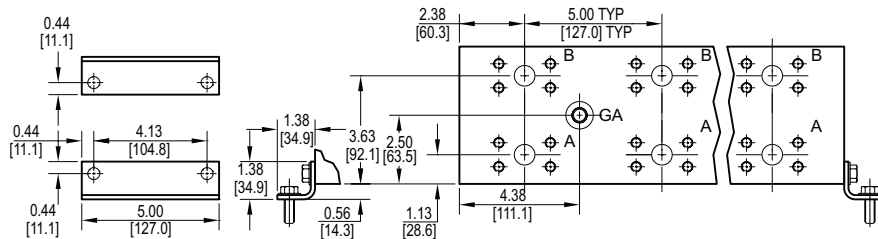
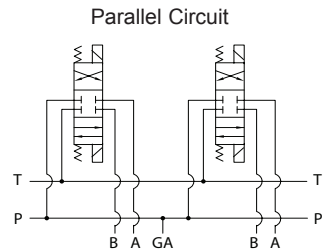
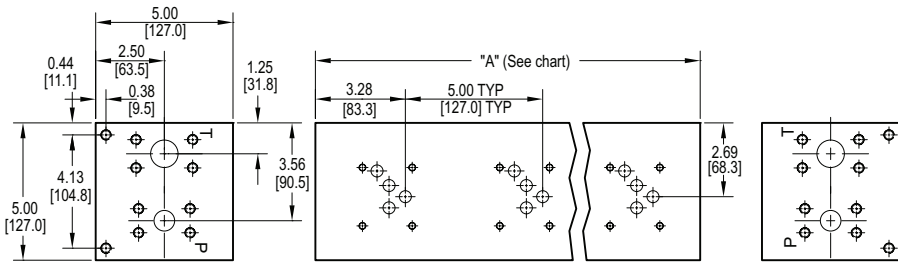
NOTES:

- The GA port is not available on a (1) station manifold.
- The GA port is not available when a pressure isolation is located between stations 1 & 2.
- Some cavity and isolation combinations are not possible. Consult factory to determine availability.

Ordering Information

Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations																																																				
<table border="1"> <thead> <tr> <th colspan="2">Pilot Ports</th> </tr> </thead> <tbody> <tr> <td>Omit if pilot ports not required</td> <td></td> </tr> <tr> <td>1</td> <td>X port (USA std) NFFPA T3.5.1-D05 Alt-B</td> </tr> <tr> <td>3</td> <td>Y port (USA std) NFFPA T3.5.1-D05 Alt-B</td> </tr> <tr> <td>13</td> <td>X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B</td> </tr> <tr> <td>2</td> <td>X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A</td> </tr> <tr> <td>4</td> <td>Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A</td> </tr> <tr> <td>24</td> <td>X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A</td> </tr> <tr> <td>5</td> <td>L ports Proportional valves</td> </tr> </tbody> </table> <p style="font-size: small;">Pilot ports available from 01-11 stations (3.25 spacing); 02-07 stations (5.00 spacing)</p>	Pilot Ports		Omit if pilot ports not required		1	X port (USA std) NFFPA T3.5.1-D05 Alt-B	3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B	13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B	2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A	4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A	24	X & Y ports ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A	5	L ports Proportional valves	<table border="1"> <thead> <tr> <th colspan="2">Cavity</th> </tr> </thead> <tbody> <tr> <td>Omit if cavity not required</td> <td></td> </tr> <tr> <td>C</td> <td>Common cavity: With solenoid clearance. C-10-2 (P in nose) For valves w/1" hex max.</td> </tr> <tr> <td>S</td> <td>Sun Cavity T-3A (P in nose) See Tech Info for valves.</td> </tr> </tbody> </table>	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.	<table border="1"> <thead> <tr> <th colspan="2">Pressure Isolation</th> </tr> </thead> <tbody> <tr> <td>Omit if P isolation not required</td> <td></td> </tr> <tr> <td>PA...PJ</td> <td>Available with spacing code 3</td> </tr> <tr> <td>PA...PF</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	Pressure Isolation		Omit if P isolation not required		PA...PJ	Available with spacing code 3	PA...PF	Available with spacing code 5	<table border="1"> <thead> <tr> <th colspan="2">Tank Isolation</th> </tr> </thead> <tbody> <tr> <td>Omit if T isolation not required</td> <td></td> </tr> <tr> <td>TA...TJ</td> <td>Available with spacing code 3</td> </tr> <tr> <td>TA...TF</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	Tank Isolation		Omit if T isolation not required		TA...TJ	Available with spacing code 3	TA...TF	Available with spacing code 5	<table border="1"> <thead> <tr> <th colspan="2">Cavity & Isolation Combinations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.</td> </tr> <tr> <td>L</td> <td>Relief cavity is located left of the isolation.</td> </tr> <tr> <td>R</td> <td>Relief cavity is located right of the isolation.</td> </tr> <tr> <td>D</td> <td>Two relief cavities, one each side of isolation.</td> </tr> </tbody> </table>	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.
Pilot Ports																																																								
Omit if pilot ports not required																																																								
1	X port (USA std) NFFPA T3.5.1-D05 Alt-B																																																							
3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B																																																							
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B																																																							
2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A																																																							
4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A																																																							
24	X & Y ports ISO 4401-05-05 NFFPA 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.																																																							

D05 High Flow Parallel Circuit Manifold - Flange Ports



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

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

* Length of 01 station with relief cavity or pilot port options increases to 5.75 [146.1].

* 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

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.	

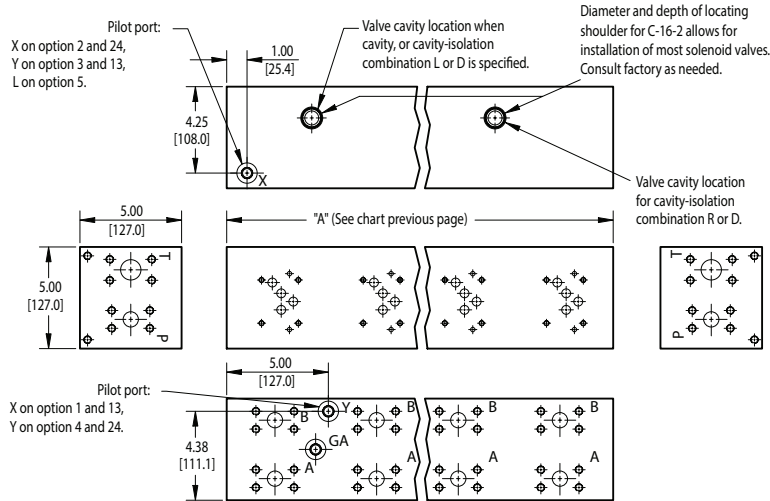
Valve Pattern	
D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information

No. of Stations	
Aluminum	
01...10	Available with spacing code 5
Ductile Iron	
01...10	Available with spacing code 5

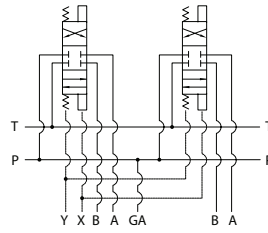
Port Threads		P,A,B	T
F	CODE 61 4-Bolt Flange SAE J518 - CODE 61 ISO 6162 - 2.5 to 35 MPa	0.75 CODE 61	1.00 CODE 61

Options - D05 High Flow Parallel Manifold Flange Ports

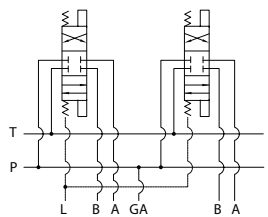
Contact Daman for cavity locations if critical.



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.

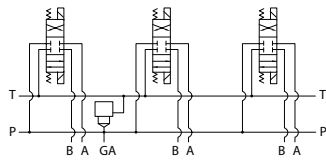
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 03	03-09
C	03 & 04	04-10
D	04 & 05	05-10
E	05 & 06	06-10
F	06 & 07	07-10
G	07 & 08	08-10
H	08 & 09	09-10

* Stations are numbered left to right.

NOTES:

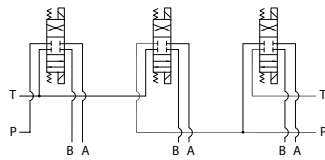
- The GA port is not available when a pressure isolation is located between stations 1 & 2.

Parallel Circuit with Cavity



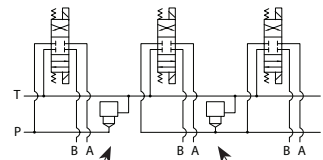
Valves with P in the nose and T out the side must be used.

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

Pilot ports available from 01-08 stations

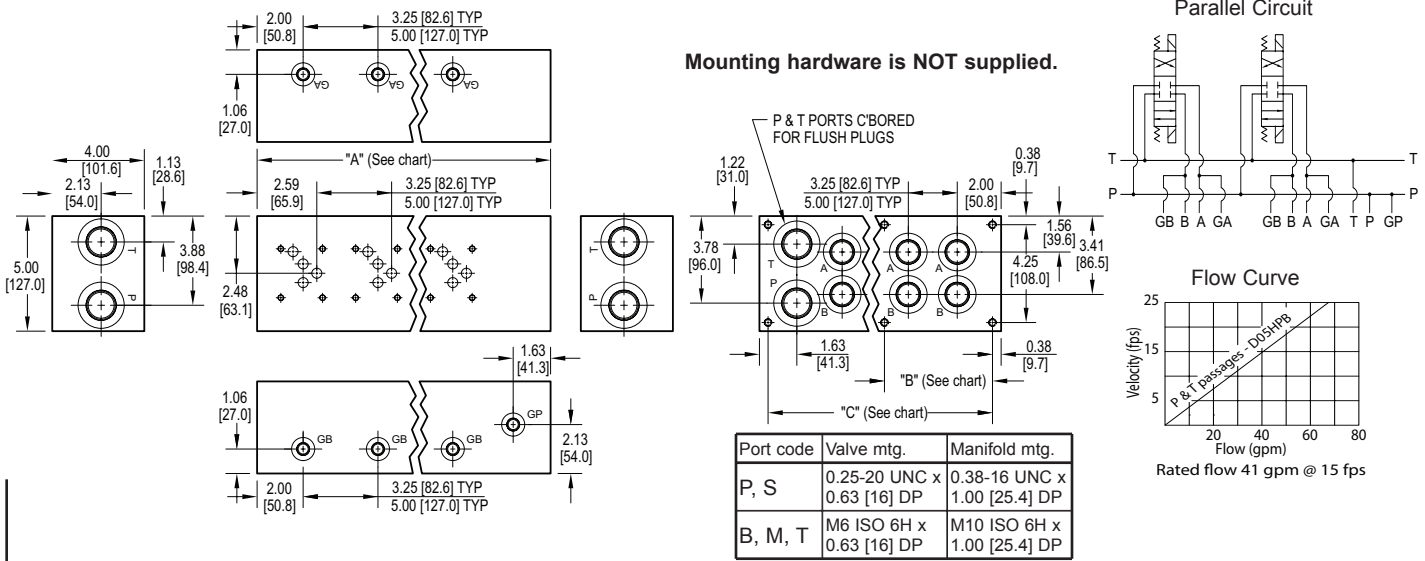
Cavity	
Omit if cavity not required	
C	Common cavity: C-16-2 (P in nose)
S	Sun Cavity: T-3A (P in nose) See Tech Info for valves.

Tank Isolation	
Omit if T isolation not required	
TA...TH	Available with spacing code 5

Pressure Isolation	
Omit if P isolation not required	
PA...PH	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.

D05 High Flow Bottom Ported Manifold With A & B Test Ports



No. of stations	01	02	03	04	05	06	07	08	09	10	No. of stations	02	03	04	05	06
"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]	"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 3 spa.) inch [mm]	--	--	--	--	--	9.75 [247.7]	13.00 [330.2]	13.00 [330.2]	16.25 [412.8]	16.25 [412.8]	"B" dim (code 5 spa.) inch [mm]	--	--	9.00 [228.6]	9.00 [228.6]	14.00 [355.6]
"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]	"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]	12 [5]	18 [8]	25 [11]	31 [14]	38 [17]	44 [20]	51 [23]	57 [26]	64 [29]	70 [32]	apx. weight alum lb [kg]	22 [10]	32 [14]	42 [19]	52 [23]	62 [28]
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]	apx. weight ferrous lb [kg]	56 [25]	82 [37]	108 [49]	134 [61]	160 [73]

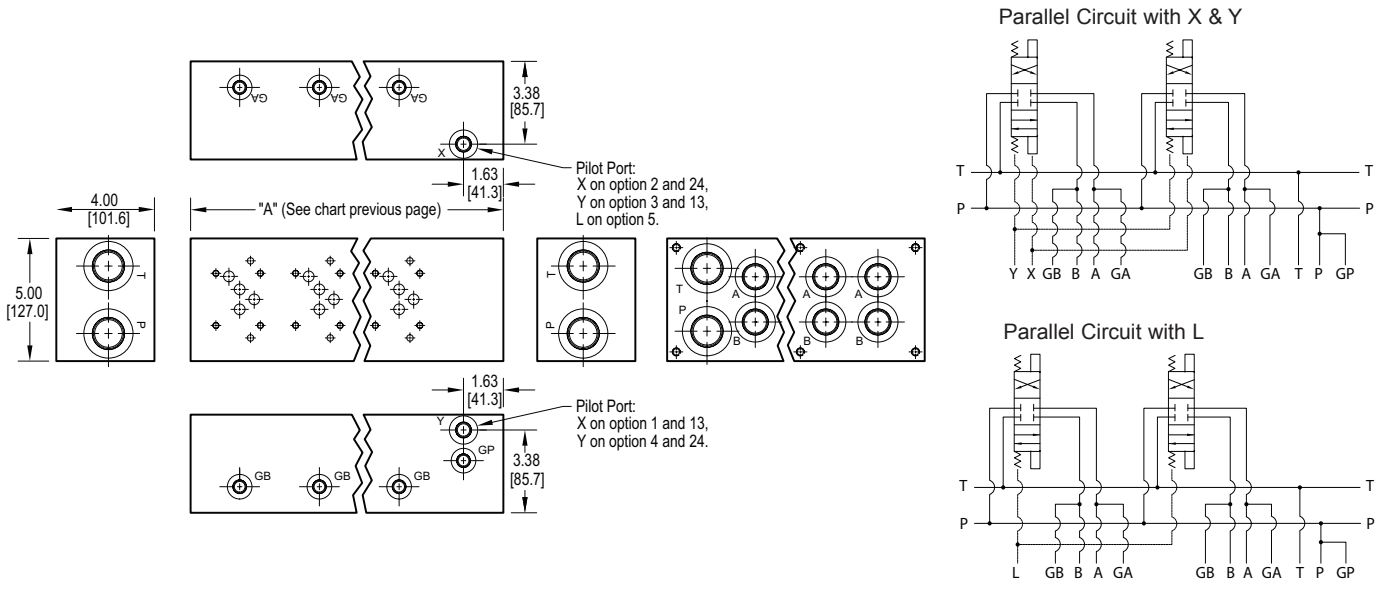
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

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

Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																																
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D05</td> <td>ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D05	ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>HPB</td> <td>Parallel Circuit High Flow Bottom Ported</td> </tr> </tbody> </table>	Circuit		HPB	Parallel Circuit High Flow Bottom Ported	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...10</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...10</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3.25 inch 82.6 mm</td> </tr> <tr> <td>5</td> <td>5.00 inch 127.0 mm</td> </tr> </tbody> </table>	Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table border="1"> <thead> <tr> <th colspan="6">Port Threads</th> </tr> </thead> <tbody> <tr> <th>P</th> <th>P & T</th> <th>A & B</th> <th>X,Y,L optional</th> <th colspan="2">G*</th> </tr> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>1.00</td> <td>0.75</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-16</td> <td>-12</td> <td>-6</td> <td>-4</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>1.00</td> <td>0.75</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M33</td> <td>M27</td> <td>M14</td> <td>M10</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>1.00</td> <td>0.75</td> <td>0.38</td> <td>0.25</td> </tr> </tbody> </table>	Port Threads						P	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																																						
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																																					
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																																					
Valve Pattern																																																																																						
D05	ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information																																																																																					
Circuit																																																																																						
HPB	Parallel Circuit High Flow Bottom Ported																																																																																					
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	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																																																																																	
Options																																																																																						
See next page for available options and ordering codes.																																																																																						

Options - D05 High Flow Bottom Ported Manifold With A & B Test Ports



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

This page intentionally blank.



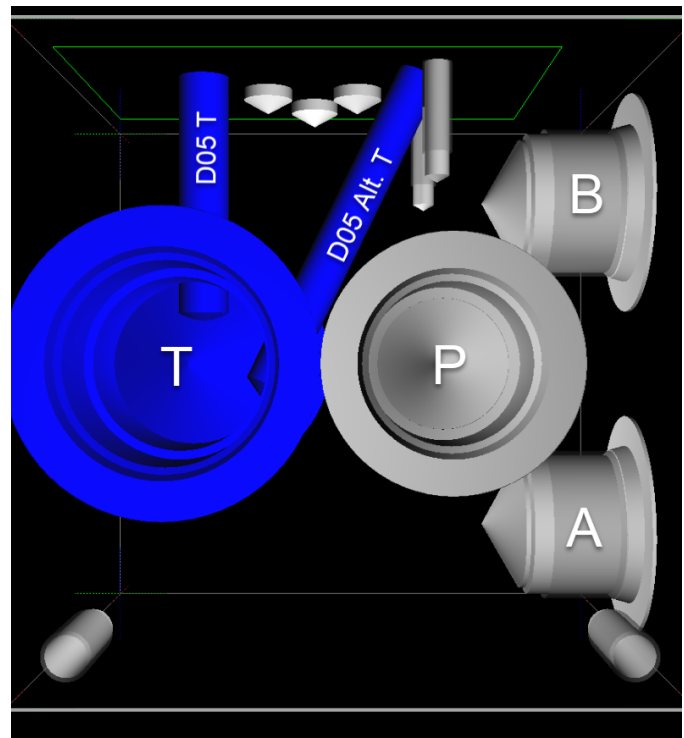
D05J SOLUTIONS

D05 valve pattern machined with alternate T port improves flow & reduces pressure drop.

By machining the 2nd tank port, aka Alternate T or T_b, to the D05 pattern, we are able to double the return flow from the valve back to the main tank gallery while reducing the pressure drop (Delta P) that commonly exists in high-flow D05 applications on manifolds.

Why choose D05J manifold solutions?

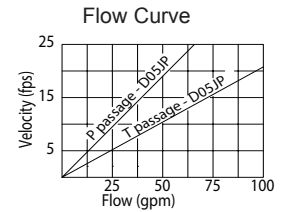
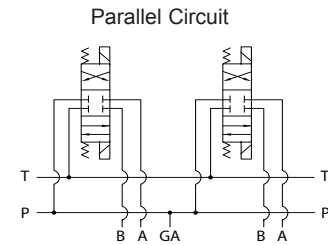
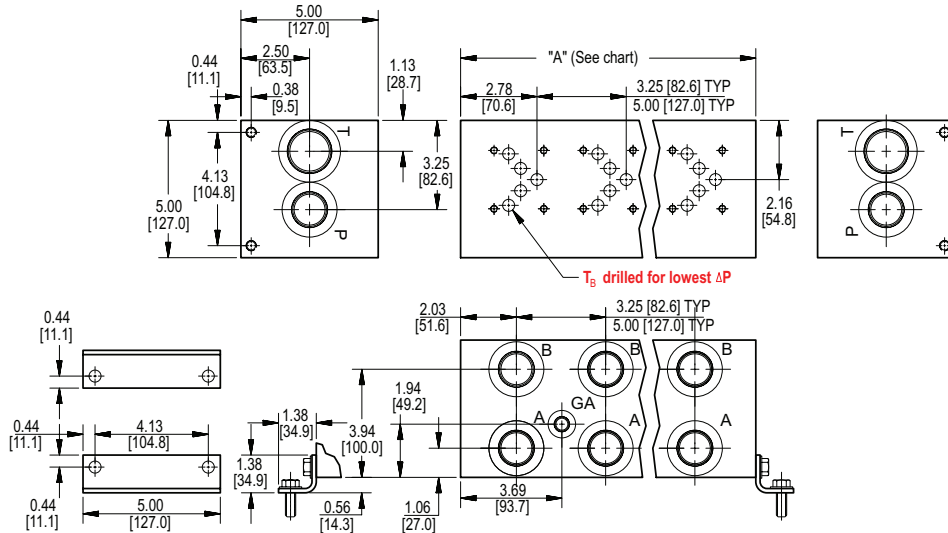
- Extra high return flow
- Reduced valve footprint
- Reduced pressure drop
- Flow rates equivalent to D07
- Extra-large termination ports throughout the manifold facilitates the increased flow potential and need for reduced pressure drop.



CONTACT US AT INFO@DAMAN.COM TO LEARN MORE

D05J Extra High Flow Parallel Circuit Manifold

Delta P Reduced Thru Valve Pattern



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

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

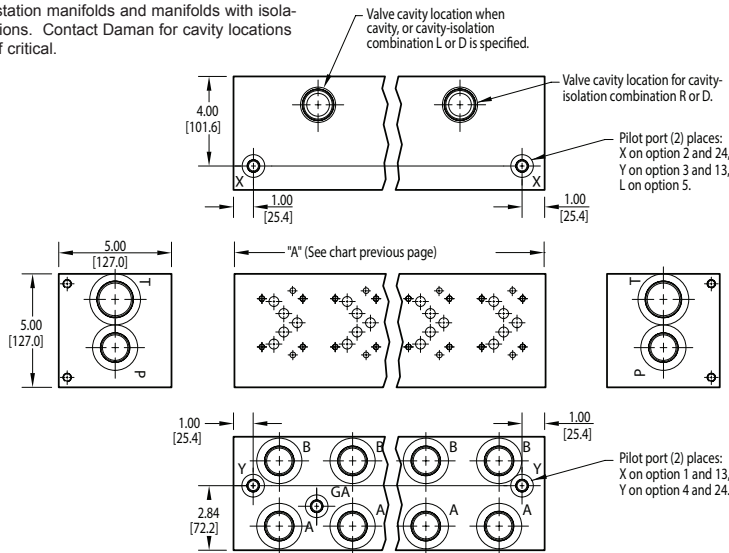
For **coating options**
see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																										
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D05</td> <td>ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D05	ISO 4401-05-04 NFFA T3.5.1-D05 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>JP</td> <td>Parallel Circuit Extra High Flow</td> </tr> </tbody> </table>	Circuit		JP	Parallel Circuit Extra High Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...10</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...10</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3.25 inch 82.6 mm</td> </tr> <tr> <td>5</td> <td>5.00 inch 127.0 mm</td> </tr> </tbody> </table>	Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table border="1"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P,A,B</th> <th>T</th> <th>X,Y,L optional</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-16</td> <td>-20</td> <td>-6</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M33</td> <td>M42</td> <td>M14</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																																
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																															
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																															
Valve Pattern																																																																																
D05	ISO 4401-05-04 NFFA 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.																																																																																

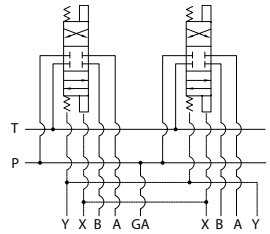
Options - D05J Extra High Flow Parallel Manifold

Delta P Reduced Thru Valve Pattern

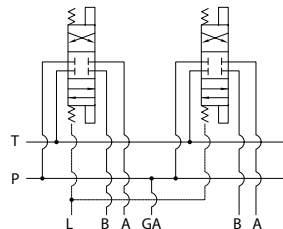
Pilot port location dimensions vary on (1) station manifolds and manifolds with isolations. Contact Daman for cavity locations if critical.



Parallel Circuit with X & Y



Parallel Circuit with L



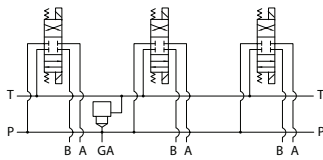
ISOLATIONS

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

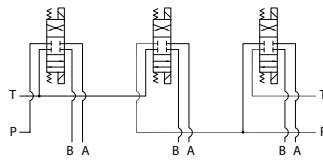
* Stations are numbered left to right.

Parallel Circuit with Cavity



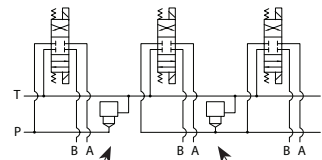
Valves with P in the nose and T out the side must be used.

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 availability.

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) NFFPA T3.5.1-D05 Alt-B
3	Y port (USA std) NFFPA T3.5.1-D05 Alt-B
13	X & Y ports (USA std) NFFPA T3.5.1-D05 Alt-B
2	X port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
4	Y port ISO 4401-05-05 NFFPA T3.5.1-D05 Alt-A
24	X & Y ports ISO 4401-05-05 NFFPA 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.

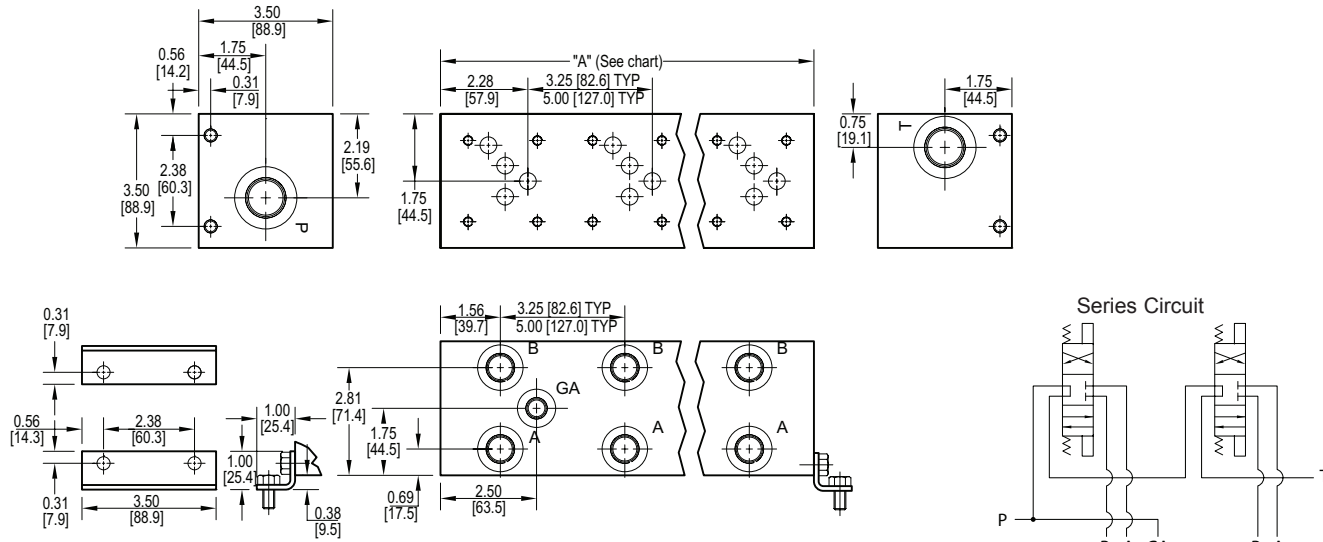
Pressure Isolation	
Omit if P isolation not required	
PA...PJ	Available with spacing code 3
PA...PE	Available with spacing code 5

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

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

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
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

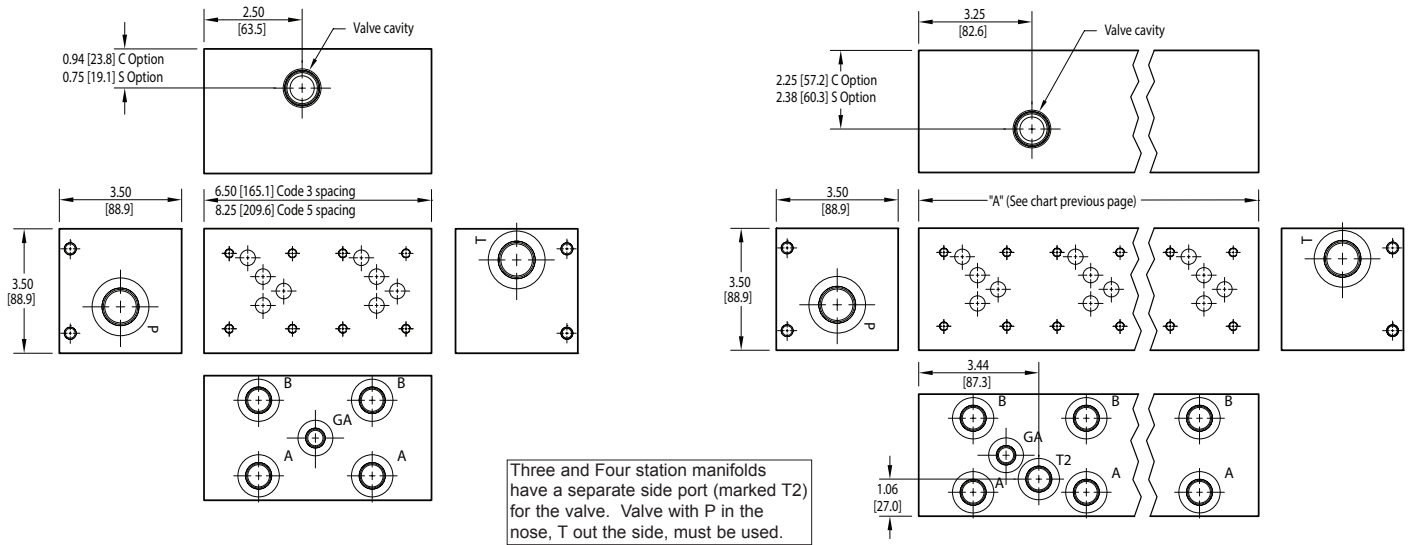
Valve Spacing	
3	3.25 inch 82.6 mm
5	5.00 inch 127.0 mm

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

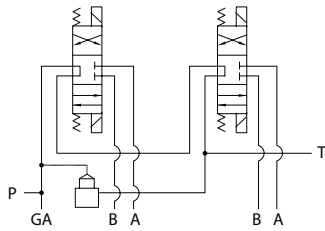
* Pipe ports in stainless can experience galling

Options	
See next page for available options and ordering codes.	

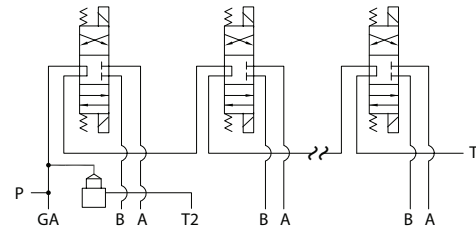
Options - D05 Standard Flow Series Manifold



Series Circuit with Cavity - (2) station



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



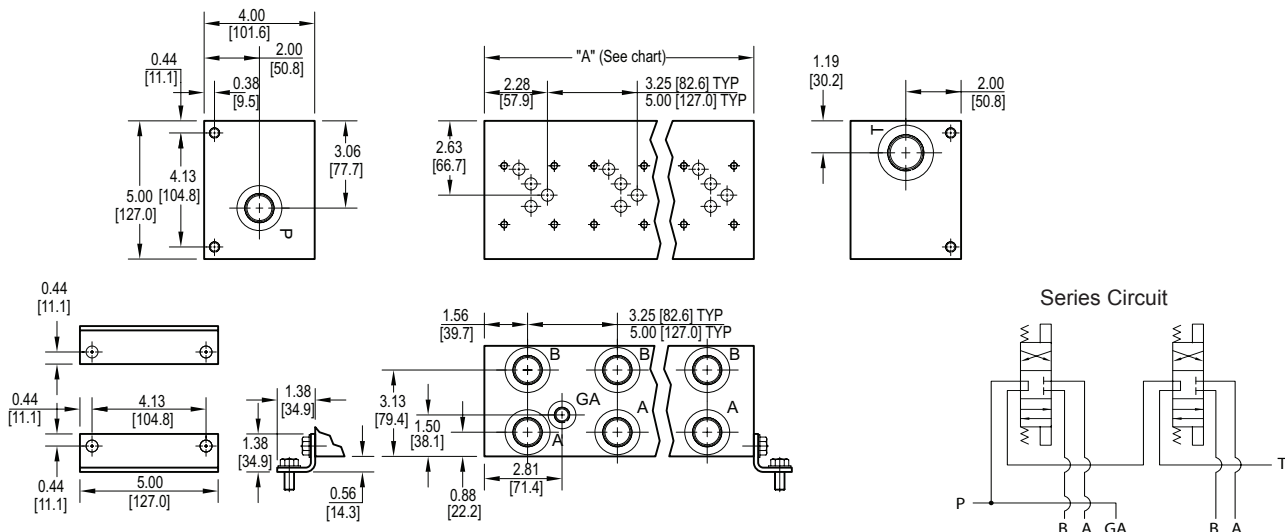
Ordering Information



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

D05 High 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]	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

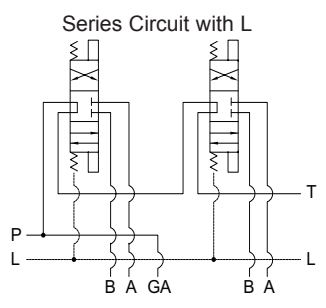
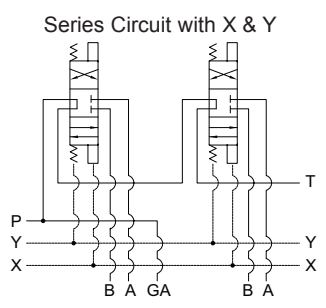
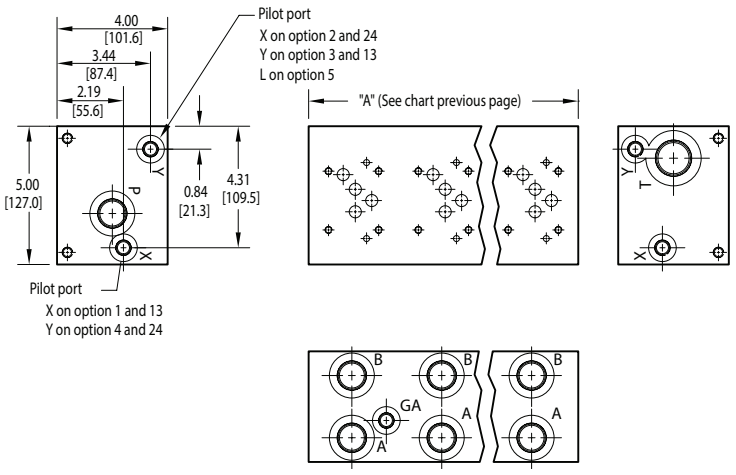
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																												
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> </tr> </tbody> </table>	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.		<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D05</td> <td>ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D05	ISO 4401-05-04 NFPA T3.5.1-D05 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>HS</td> <td>Series Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HS	Series Circuit High Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 5</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 3</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 5</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>3.25 inch 82.6 mm</td> </tr> <tr> <td>5</td> <td>5.00 inch 127.0 mm</td> </tr> </tbody> </table>	Valve Spacing		3	3.25 inch 82.6 mm	5	5.00 inch 127.0 mm	<table border="1"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P,A,B</th> <th>T</th> <th>X,Y,L optional</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-16</td> <td>-6</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M33</td> <td>M14</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
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.																																																																																		

Options - D05 High Flow Series Manifold

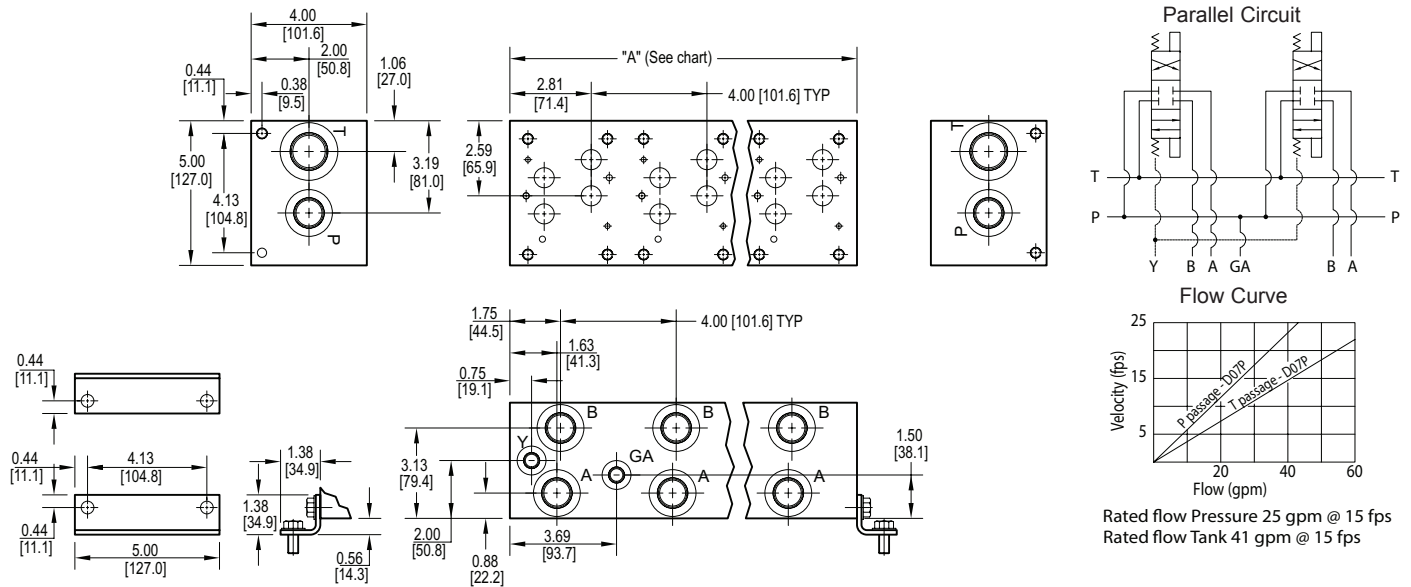


Ordering Information



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

D07 Standard Flow Parallel Circuit Manifold



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

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.

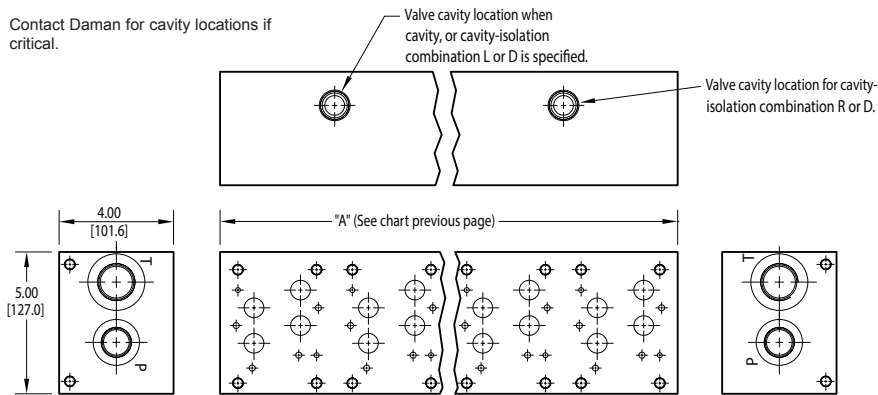
Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																										
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Parallel Manifold Standard Flow</td> </tr> </tbody> </table>	Circuit		P	Parallel Manifold Standard Flow	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D07</td> <td>ISO 4401-07-06 NFFPA T3.5.1-D07 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D07	ISO 4401-07-06 NFFPA T3.5.1-D07 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...08</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...08</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	No. of Stations		Aluminum		01...08	Available with spacing code 4	Ductile Iron		01...08	Available with spacing code 4	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		4	4.00 inch 101.6 mm	<table border="1"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P,A,B</th> <th>T</th> <th>Y</th> <th>X optional</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-16</td> <td>-6</td> <td>-4</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>0.25</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M33</td> <td>M14</td> <td>M10</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>0.25</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																																
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																															
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																															
Circuit																																																																																
P	Parallel Manifold Standard Flow																																																																															
Valve Pattern																																																																																
D07	ISO 4401-07-06 NFFPA 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																																																																															
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.																																																																																

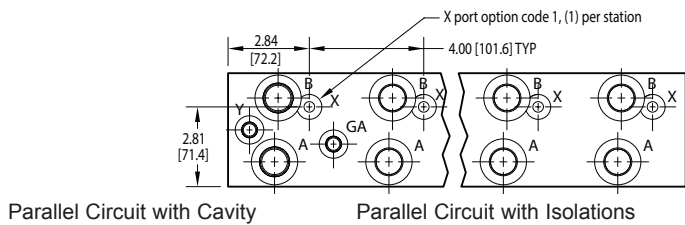
Options - D07 Standard Flow Parallel Manifold

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

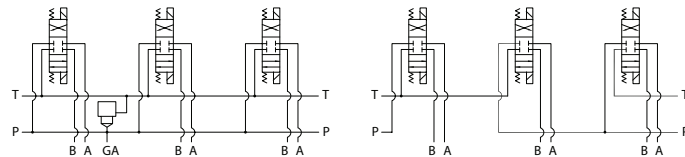
* Stations are numbered left to right.



Parallel Circuit with Cavity

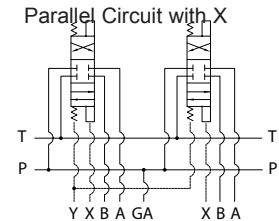
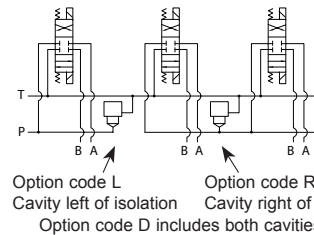
Parallel Circuit with Isolations

Cavity & Isolation Combinations



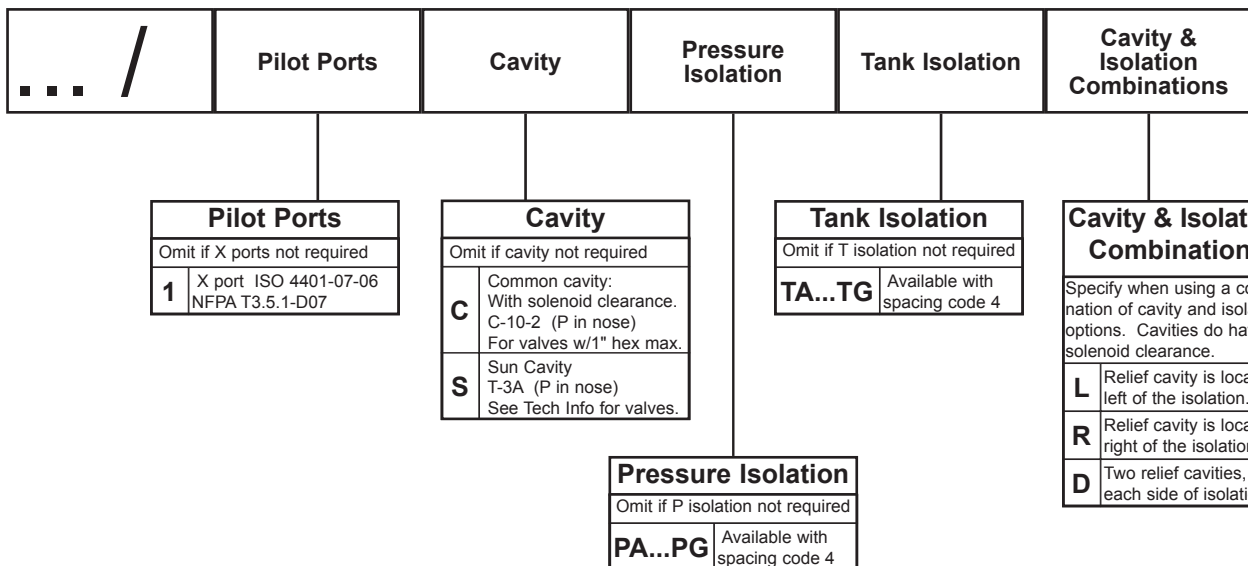
Valves with P in the nose and T out the side must be used.

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

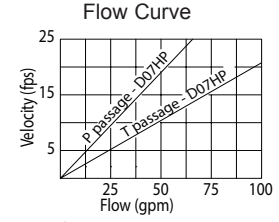
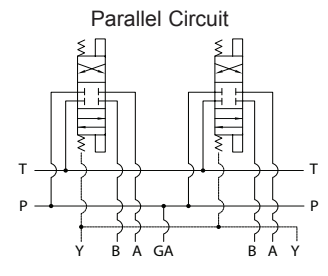
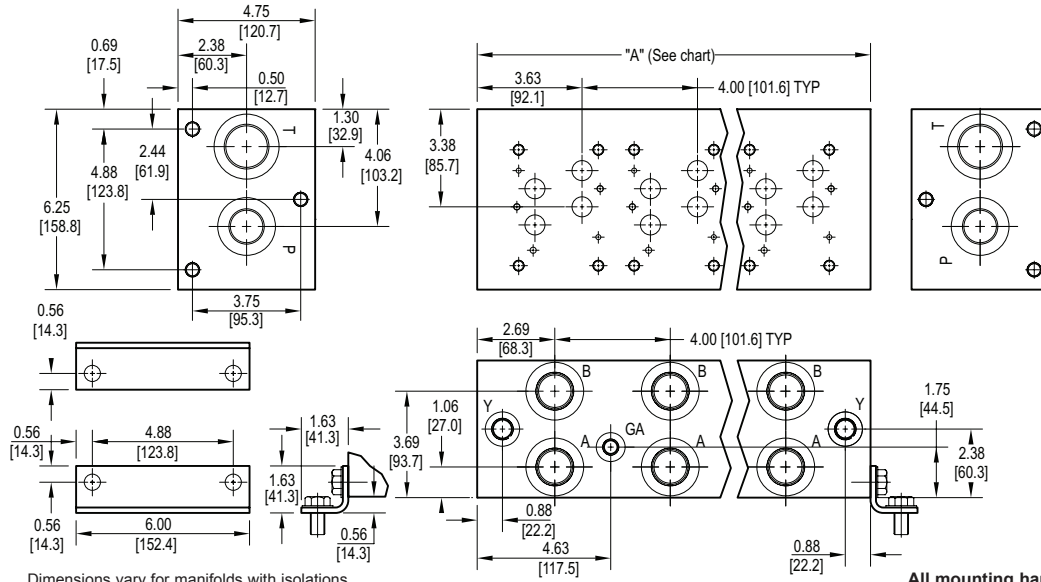


- NOTES:**
- 1) The GA port is not available on a (1) station manifold.
 - 2) The GA port is not available when a pressure isolation is located between stations 1 & 2.
 - 3) Some cavity and isolation combinations are not possible. Consult factory to determine availability.

Ordering Information



D07 High Flow Parallel Circuit Manifold



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]

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

* 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.

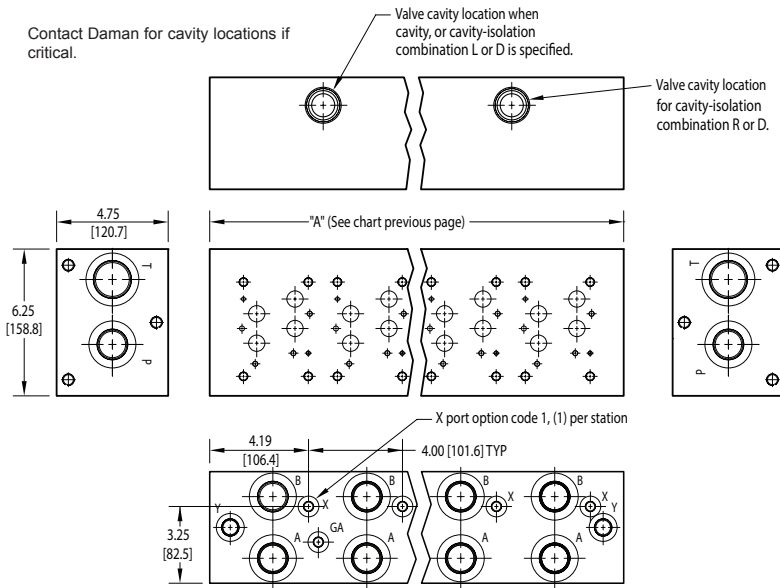
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td colspan="2" style="font-size: small;">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> </tr> </tbody> </table>	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.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">D07</td> <td>ISO 4401-07-06 NFPA T3.5.1-D07 See Tech information</td> </tr> </tbody> </table>	Valve Pattern		D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech information	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Aluminum</td> </tr> <tr> <td style="width: 20px; text-align: center;">01...08</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2" style="text-align: center;">Ductile Iron</td> </tr> <tr> <td style="text-align: center;">01...08</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	No. of Stations		Aluminum		01...08	Available with spacing code 4	Ductile Iron		01...08	Available with spacing code 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		4	4.00 inch 101.6 mm	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Port Threads</th> </tr> <tr> <th></th> <th>P,A,B</th> <th>T</th> <th>Y</th> <th>X optional</th> <th>GA</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">P</td> <td>NPTF • ANSI B1.20.3</td> <td>1.00</td> <td>1.25</td> <td>0.50</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td style="text-align: center;">S</td> <td>SAE • ISO 11926</td> <td>-16</td> <td>-20</td> <td>-8</td> <td>-4</td> <td>-6</td> </tr> <tr> <td style="text-align: center;">B</td> <td>BSPP • ISO 1179</td> <td>1.00</td> <td>1.25</td> <td>0.50</td> <td>0.25</td> <td>none</td> </tr> <tr> <td style="text-align: center;">M</td> <td>ISO • ISO 6149</td> <td>M33</td> <td>M42</td> <td>M16</td> <td>M10</td> <td>none</td> </tr> <tr> <td style="text-align: center;">T</td> <td>BSPT • ISO 7</td> <td>1.00</td> <td>1.25</td> <td>0.50</td> <td>0.25</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
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																																																																																									
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	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.																																																																																									

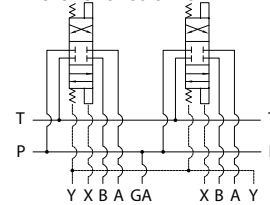
Options - D07 High Flow Parallel Manifold



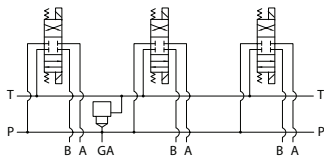
ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 & 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

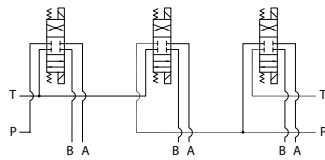


Parallel Circuit with Cavity



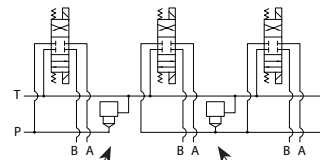
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



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

Cavity & Isolation Combinations

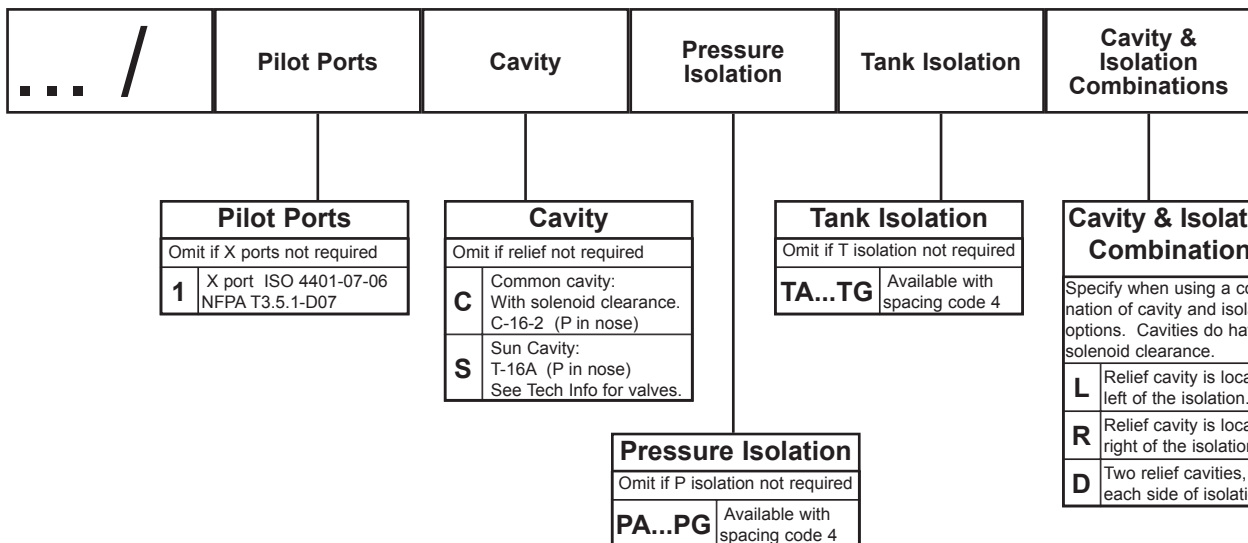


Option code L
Cavity left of isolation
Option code R
Cavity right of isolation
Option code D includes both cavities

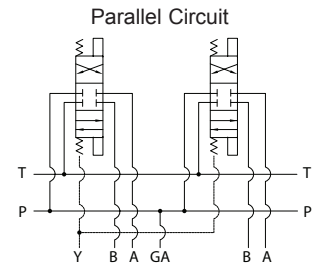
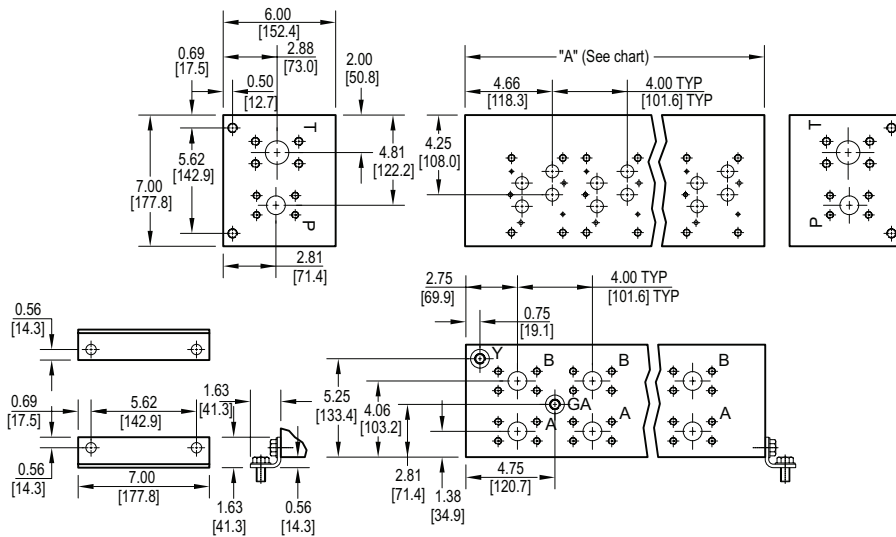
NOTES:

- 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 availability.

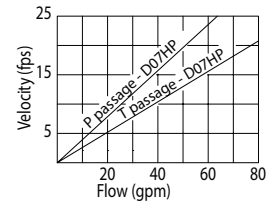
Ordering Information



D07 High Flow Parallel Circuit Manifold - Flange Ports



Flow Curve



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

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

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

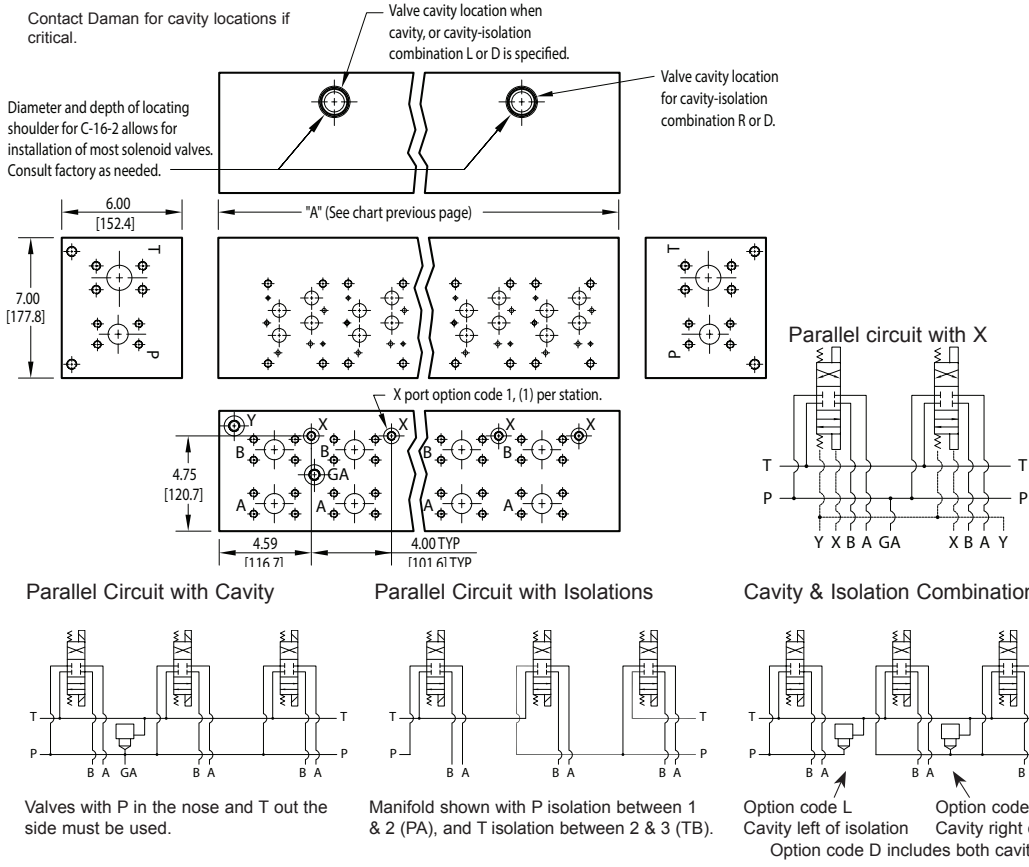
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																				
<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D07</td> <td>ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td>01...08</td> <td>Aluminum or Ductile Iron Available with spacing code 4</td> </tr> </tbody> </table>	No. of Stations		01...08	Aluminum or Ductile Iron Available with spacing code 4	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		4	4.00 inch 101.6 mm	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="3">Port Threads</th> </tr> </thead> <tbody> <tr> <td rowspan="3">F</td> <td>CODE 61 4-Bolt Flange</td> <td>P,A,B</td> </tr> <tr> <td>SAE J518 - CODE 61</td> <td>1.00</td> </tr> <tr> <td>ISO 6162 - 2.5 to 35 MPa</td> <td>1.25 CODE 61</td> </tr> </tbody> </table>	Port Threads			F	CODE 61 4-Bolt Flange	P,A,B	SAE J518 - CODE 61	1.00	ISO 6162 - 2.5 to 35 MPa	1.25 CODE 61	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																										
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																									
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																									
Valve Pattern																																										
D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information																																									
Circuit																																										
HP	Parallel Circuit High Flow																																									
No. of Stations																																										
01...08	Aluminum or Ductile Iron Available with spacing code 4																																									
Valve Spacing																																										
4	4.00 inch 101.6 mm																																									
Port Threads																																										
F	CODE 61 4-Bolt Flange	P,A,B																																								
	SAE J518 - CODE 61	1.00																																								
	ISO 6162 - 2.5 to 35 MPa	1.25 CODE 61																																								
Options																																										
See next page for available options and ordering codes.																																										

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

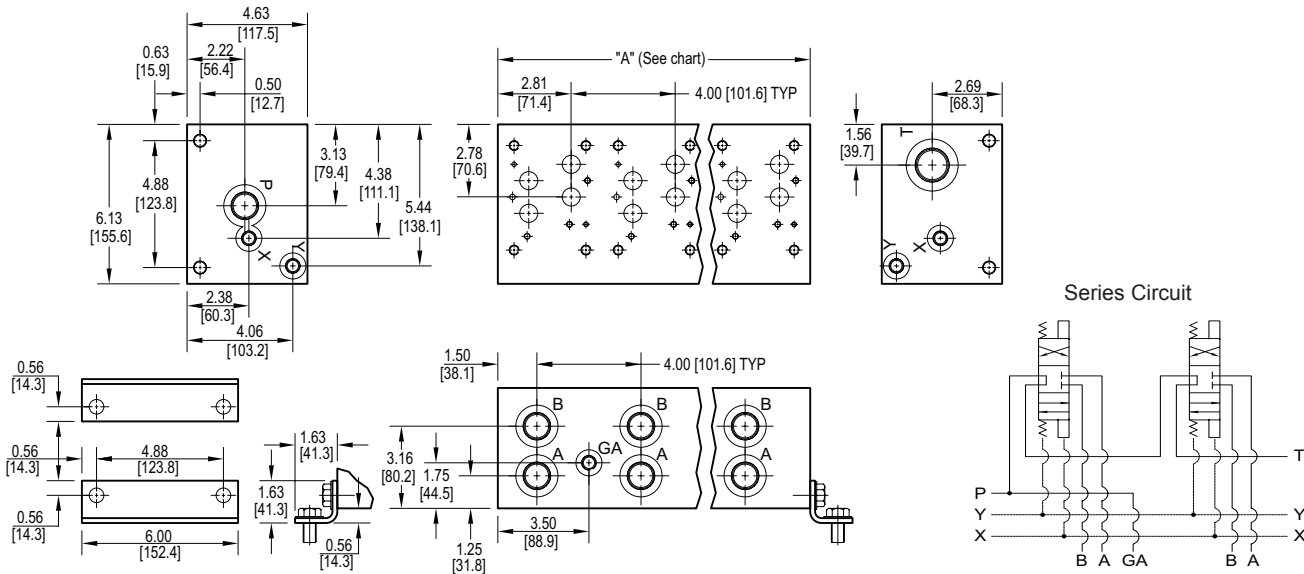
* Stations are numbered left to right.

- ### 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.

Ordering Information

...	Thread Type	Pilot Ports	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations																																										
	<table border="1"> <thead> <tr> <th colspan="2">Thread Type</th> </tr> </thead> <tbody> <tr> <td>Omit</td> <td>Inch threads / ports</td> </tr> <tr> <td>M</td> <td>Metric threads / ports</td> </tr> </tbody> </table>	Thread Type		Omit	Inch threads / ports	M	Metric threads / ports	<table border="1"> <thead> <tr> <th colspan="2">Pilot Ports</th> </tr> </thead> <tbody> <tr> <td colspan="2">Omit if X ports not required</td> </tr> <tr> <td>1</td> <td>X port ISO 4401-07-06 NFPA T3.5.1-D07</td> </tr> </tbody> </table>	Pilot Ports		Omit if X ports not required		1	X port ISO 4401-07-06 NFPA T3.5.1-D07	<table border="1"> <thead> <tr> <th colspan="2">Cavity</th> </tr> </thead> <tbody> <tr> <td colspan="2">Omit if cavity not required</td> </tr> <tr> <td>C</td> <td>Common cavity: C-16-2 (P in nose)</td> </tr> <tr> <td>S</td> <td>Sun Cavity: T-16A (P in nose) See Tech Info for valves.</td> </tr> </tbody> </table>	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.	<table border="1"> <thead> <tr> <th colspan="2">Pressure Isolation</th> </tr> </thead> <tbody> <tr> <td colspan="2">Omit if P isolation not required</td> </tr> <tr> <td>PA...PG</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	Pressure Isolation		Omit if P isolation not required		PA...PG	Available with spacing code 4	<table border="1"> <thead> <tr> <th colspan="2">Tank Isolation</th> </tr> </thead> <tbody> <tr> <td colspan="2">Omit if T isolation not required</td> </tr> <tr> <td>TA...TG</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	Tank Isolation		Omit if T isolation not required		TA...TG	Available with spacing code 4	<table border="1"> <thead> <tr> <th colspan="2">Cavity & Isolation Combinations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.</td> </tr> <tr> <td>L</td> <td>Relief cavity is located left of the isolation.</td> </tr> <tr> <td>R</td> <td>Relief cavity is located right of the isolation.</td> </tr> <tr> <td>D</td> <td>Two relief cavities, one each side of isolation.</td> </tr> </tbody> </table>	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.
Thread Type																																																
Omit	Inch threads / ports																																															
M	Metric threads / ports																																															
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: 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...PG	Available with spacing code 4																																															
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 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.																																															

D07 Series Circuit Manifold



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

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.

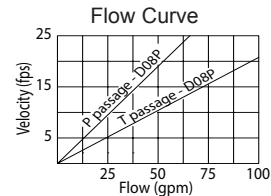
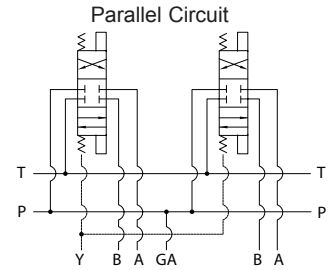
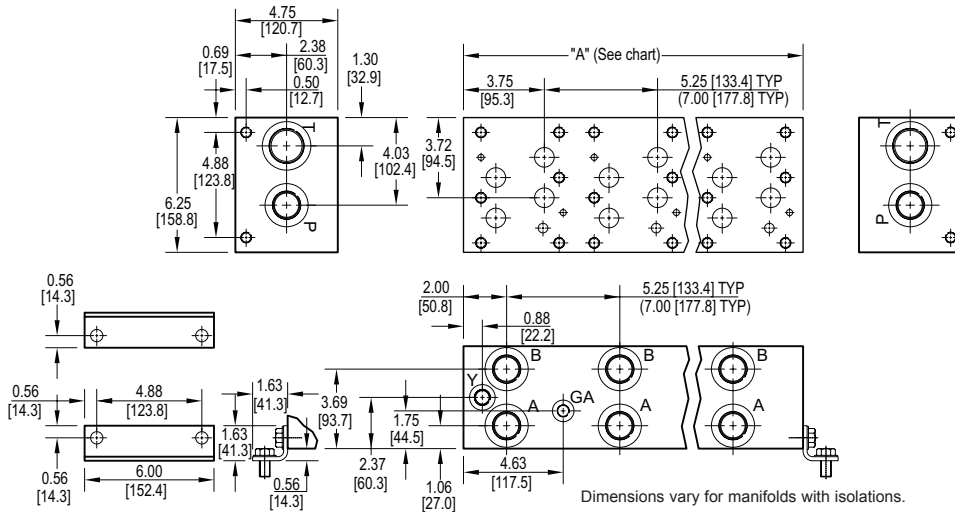
Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> </tr> </tbody> </table>	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.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">S</td> <td>Series Circuit</td> </tr> </tbody> </table>	Circuit		S	Series Circuit	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">D07</td> <td>ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D07	ISO 4401-07-06 NFPA T3.5.1-D07 See Tech Information	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Aluminum</td> </tr> <tr> <td style="text-align: center;">02...04</td> <td>Available with spacing code 4</td> </tr> <tr> <td colspan="2" style="text-align: center;">Ductile Iron</td> </tr> <tr> <td style="text-align: center;">02...04</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	No. of Stations		Aluminum		02...04	Available with spacing code 4	Ductile Iron		02...04	Available with spacing code 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4</td> <td>4.00 inch 101.6 mm</td> </tr> </tbody> </table>	Valve Spacing		4	4.00 inch 101.6 mm	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">Port Threads</th> </tr> <tr> <th></th> <th>P,A,B</th> <th>T</th> <th>X & Y</th> <th>GA</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td style="text-align: center;">S</td> <td>SAE • ISO 11926</td> <td>-12</td> <td>-16</td> <td>-6</td> <td>-6</td> </tr> <tr> <td style="text-align: center;">B</td> <td>BSPP • ISO 1179</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>none</td> </tr> <tr> <td style="text-align: center;">M</td> <td>ISO • ISO 6149</td> <td>M27</td> <td>M33</td> <td>M14</td> <td>none</td> </tr> <tr> <td style="text-align: center;">T</td> <td>BSPT • ISO 7</td> <td>0.75</td> <td>1.00</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">No options available.</td> </tr> </tbody> </table>	Options		No options available.	
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 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																																																																																	
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.																																																																																		

D08 Manifolds

D08 Standard Flow Parallel Manifold



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]			

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

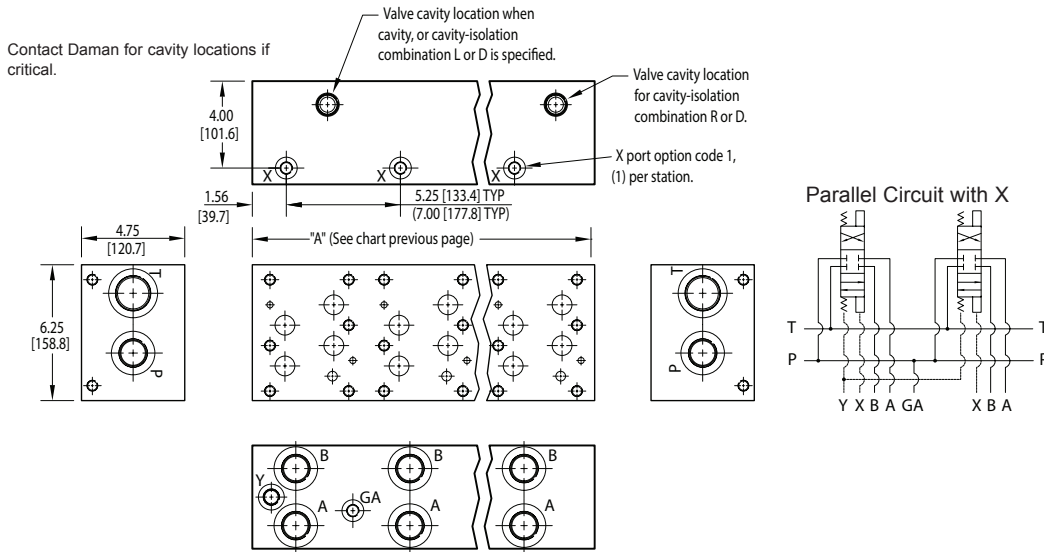
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																													
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Parallel Circuit Standard Flow</td> </tr> </tbody> </table>	Circuit		P	Parallel Circuit Standard Flow	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5.25 inch 133.4 mm</td> </tr> <tr> <td>7</td> <td>7.00 inch 177.8 mm</td> </tr> </tbody> </table>	Valve Spacing		5	5.25 inch 133.4 mm	7	7.00 inch 177.8 mm	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.																																													
Material																																																																			
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																		
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																		
Circuit																																																																			
P	Parallel Circuit Standard Flow																																																																		
Valve Spacing																																																																			
5	5.25 inch 133.4 mm																																																																		
7	7.00 inch 177.8 mm																																																																		
Options																																																																			
See next page for available options and ordering codes.																																																																			
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>D08</td> <td>ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information</td> </tr> </tbody> </table>	Material		D08	ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D08</td> <td>ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D08	ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...08</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...05</td> <td>Available with spacing code 7</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...08</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...05</td> <td>Available with spacing code 7</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Port Threads</th> <th>P,A,B</th> <th>T</th> <th>Y</th> <th>X optional</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-16</td> <td>-20</td> <td>-8</td> <td>-4</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>0.25</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M33</td> <td>M42</td> <td>M14</td> <td>M10</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>0.25</td> <td>none</td> </tr> </tbody> </table>	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
Material																																																																			
D08	ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information																																																																		
Valve Pattern																																																																			
D08	ISO 4401-08-07 NFFPA T3.5.1-D08 See Tech Information																																																																		
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																																																																		
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																																																													

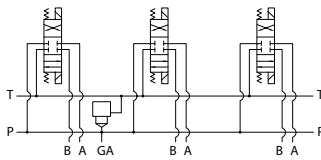
Options - D08 Standard Flow Parallel Manifold



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:
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

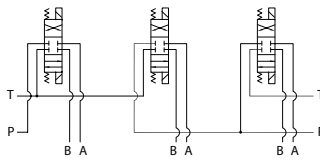
* Stations are numbered left to right.

Parallel Circuit with Cavity



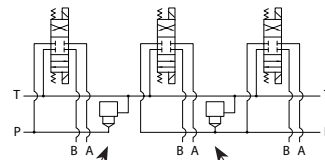
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



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

Cavity & Isolation Combinations

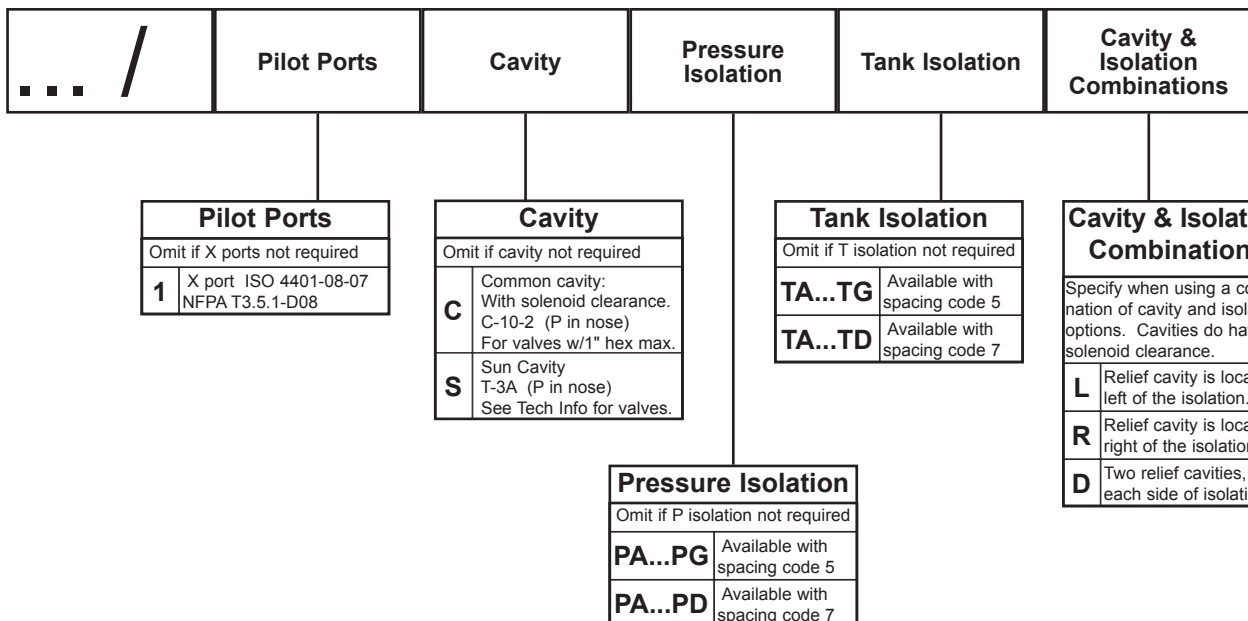


Option code L
Cavity left of isolation
Option code R
Cavity right of isolation
Option code D includes both cavities

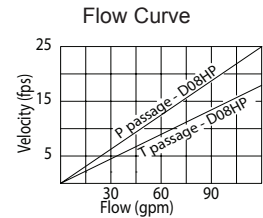
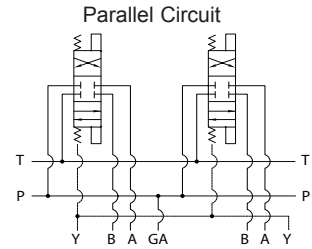
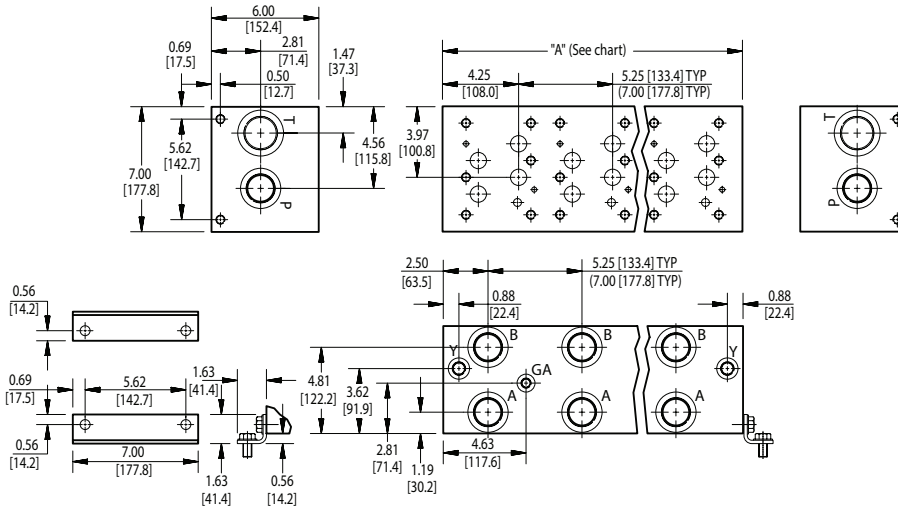
NOTES:

- 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



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

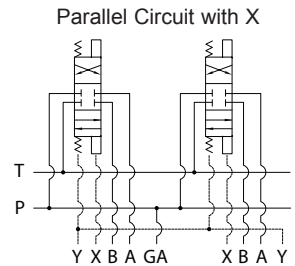
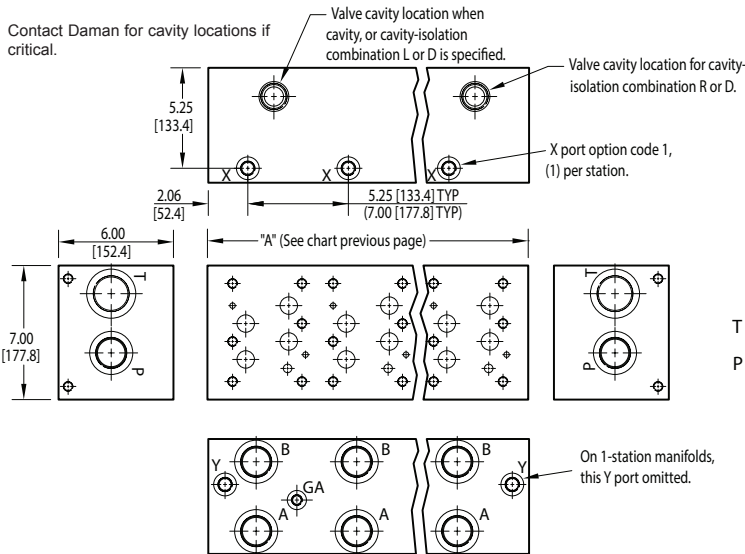
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

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

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																																																							
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D08</td> <td>ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...07</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 7</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...07</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...05</td> <td>Available with spacing code 7</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5.25 inch 133.4 mm</td> </tr> <tr> <td>7</td> <td>7.00 inch 177.8 mm</td> </tr> </tbody> </table>	Valve Spacing		5	5.25 inch 133.4 mm	7	7.00 inch 177.8 mm	<table border="1"> <thead> <tr> <th colspan="7">Port Threads</th> </tr> <tr> <th></th> <th>P,A,B</th> <th>T</th> <th>Y</th> <th>X optional</th> <th>GA</th> <th></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>1.25</td> <td>1.50</td> <td>0.38</td> <td>0.25</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-20</td> <td>-24</td> <td>-8</td> <td>-4</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>1.25</td> <td>1.50</td> <td>0.50</td> <td>0.25</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M42</td> <td>M48</td> <td>M16</td> <td>M10</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>1.25</td> <td>1.50</td> <td>0.50</td> <td>0.25</td> <td>none</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																																																													
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																																																												
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																																																												
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.																																																																																													

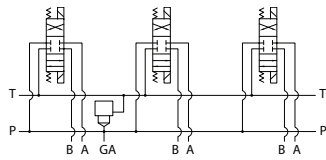
Options - D08 High Flow Parallel Manifold



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:
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

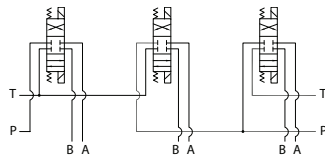
* Stations are numbered left to right.

Parallel Circuit with Cavity



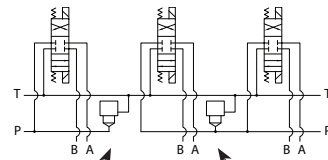
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



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

Cavity & Isolation Combinations



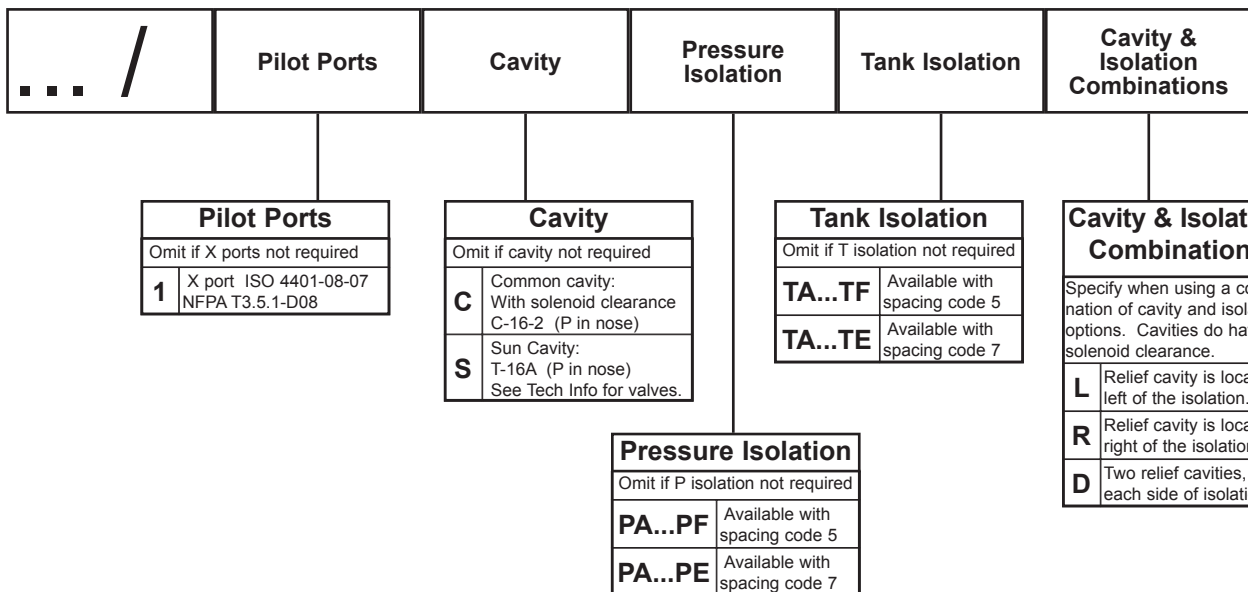
Option code L
Cavity left of isolation

Option code R
Cavity right of isolation

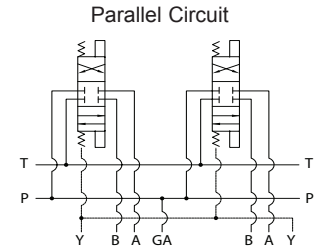
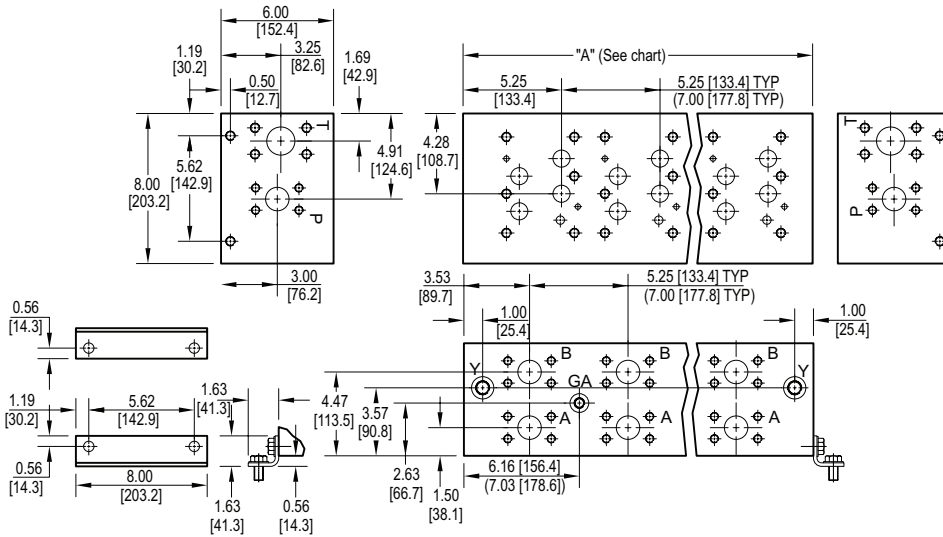
Option code D includes both cavities

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.

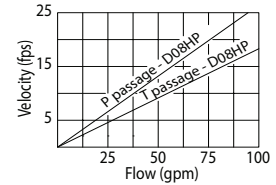
Ordering Information



D08 High Flow Parallel Circuit Manifold - Flange Ports



Parallel Circuit



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.

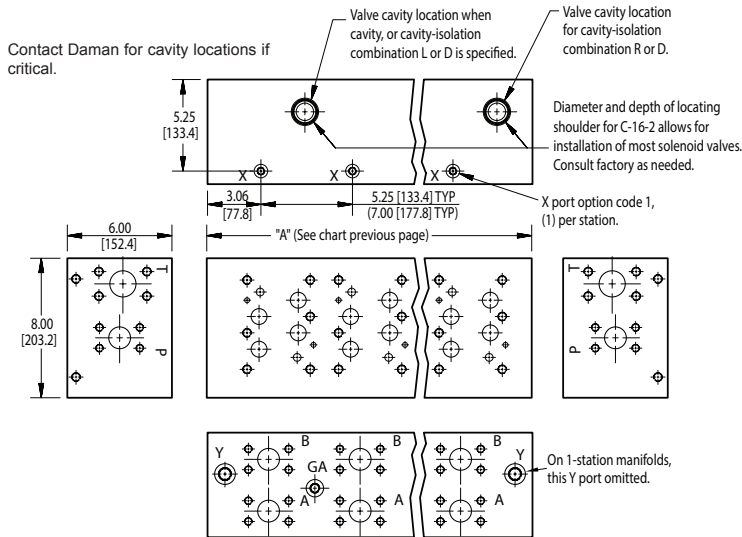
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation.
Download latest catalog page revisions at www.daman.com.

Ordering Information

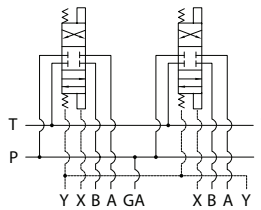
For **coating options**
see pages 245-246.

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> </tbody> </table> <p>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</p>	Material		A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	D	Ductile Iron - D4512 5000† psi • 34.5 MPa	<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D08</td> <td>ISO 4401-08-07 NFFA T3.5.1-D08 See Tech Information</td> </tr> </tbody> </table>	Valve Pattern		D08	ISO 4401-08-07 NFFA T3.5.1-D08 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>HP</td> <td>Parallel Circuit High Flow</td> </tr> </tbody> </table>	Circuit		HP	Parallel Circuit High Flow	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>01...07</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 7</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>01...07</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...06</td> <td>Available with spacing code 7</td> </tr> </tbody> </table>	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	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5.25 inch 133.4 mm</td> </tr> <tr> <td>7</td> <td>7.00 inch 177.8 mm</td> </tr> </tbody> </table>	Valve Spacing		5	5.25 inch 133.4 mm	7	7.00 inch 177.8 mm	<table border="1"> <thead> <tr> <th colspan="3">Port Threads</th> </tr> </thead> <tbody> <tr> <td rowspan="3">F</td> <td>CODE 61 4-Bolt Flange</td> <td></td> </tr> <tr> <td>SAE J518 - CODE 61</td> <td>P,A,B</td> </tr> <tr> <td>ISO 6162 - 2.5 to 35 MPa</td> <td>T</td> </tr> </tbody> </table>	Port Threads			F	CODE 61 4-Bolt Flange		SAE J518 - CODE 61	P,A,B	ISO 6162 - 2.5 to 35 MPa	T	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </tbody> </table>	Options		See next page for available options and ordering codes.	
Material																																																						
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa																																																					
D	Ductile Iron - D4512 5000† psi • 34.5 MPa																																																					
Valve Pattern																																																						
D08	ISO 4401-08-07 NFFA 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																																																						
F	CODE 61 4-Bolt Flange																																																					
	SAE J518 - CODE 61	P,A,B																																																				
	ISO 6162 - 2.5 to 35 MPa	T																																																				
Options																																																						
See next page for available options and ordering codes.																																																						

Options - D08 High Flow Parallel Manifold - Flange Ports



Parallel Circuit with X



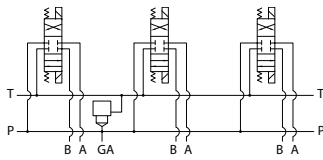
ISOLATIONS

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

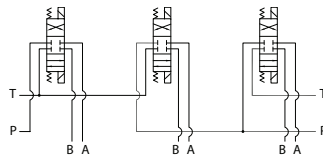
* Stations are numbered left to right.

Parallel Circuit with Cavity



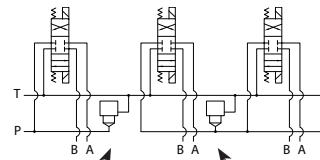
Valves with P in the nose and T out the side must be used.

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

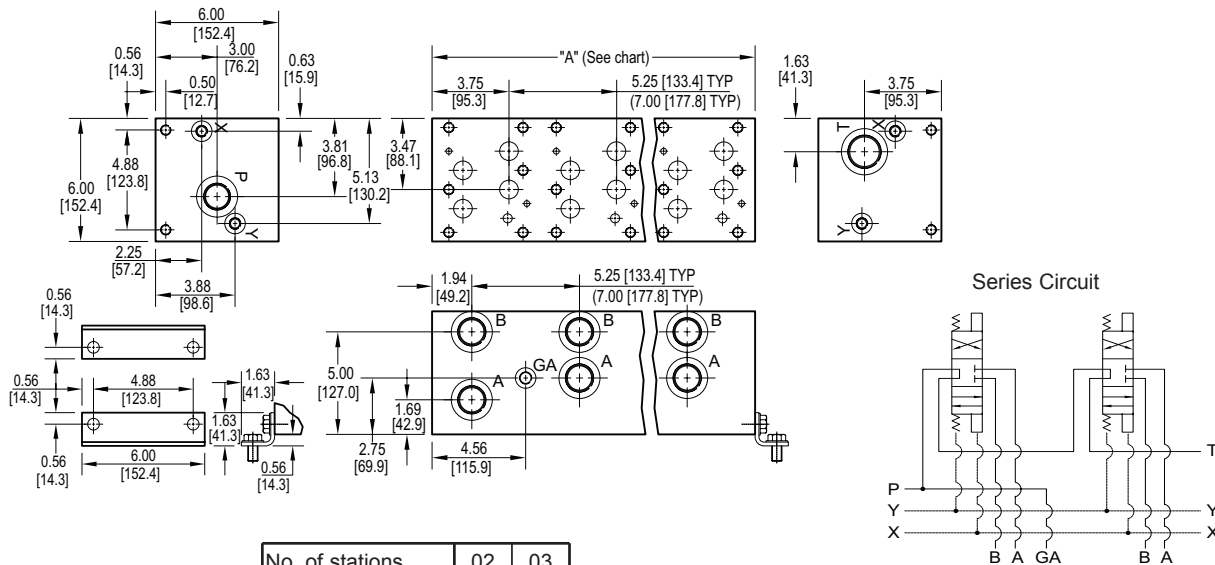
NOTES:

- 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																																														
<table border="1"> <tr> <th colspan="2">Thread Type</th> </tr> <tr> <td>Omit</td> <td>Inch threads / ports</td> </tr> <tr> <td>M</td> <td>Metric threads / ports</td> </tr> </table>	Thread Type		Omit	Inch threads / ports	M	Metric threads / ports	<table border="1"> <tr> <th colspan="2">Pilot Ports</th> </tr> <tr> <td colspan="2">Omit if X ports not required</td> </tr> <tr> <td>1</td> <td>X port ISO 4401-08-07 NFPA T3.5.1-D08</td> </tr> </table>	Pilot Ports		Omit if X ports not required		1	X port ISO 4401-08-07 NFPA T3.5.1-D08	<table border="1"> <tr> <th colspan="2">Cavity</th> </tr> <tr> <td colspan="2">Omit if cavity not required</td> </tr> <tr> <td>C</td> <td>Common cavity: C-16-2 (P in nose)</td> </tr> <tr> <td>S</td> <td>Sun Cavity: T-16A (P in nose) See Tech Info for valves.</td> </tr> </table>	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.	<table border="1"> <tr> <th colspan="2">Pressure Isolation</th> </tr> <tr> <td colspan="2">Omit if P isolation not required</td> </tr> <tr> <td>PA...PF</td> <td>Available with spacing code 5</td> </tr> <tr> <td>PA...PE</td> <td>Available with spacing code 7</td> </tr> </table>	Pressure Isolation		Omit if P isolation not required		PA...PF	Available with spacing code 5	PA...PE	Available with spacing code 7	<table border="1"> <tr> <th colspan="2">Tank Isolation</th> </tr> <tr> <td colspan="2">Omit if T isolation not required</td> </tr> <tr> <td>TA...TF</td> <td>Available with spacing code 5</td> </tr> <tr> <td>TA...TE</td> <td>Available with spacing code 7</td> </tr> </table>	Tank Isolation		Omit if T isolation not required		TA...TF	Available with spacing code 5	TA...TE	Available with spacing code 7	<table border="1"> <tr> <th colspan="2">Relief / Isolation Combinations</th> </tr> <tr> <td colspan="2">Specify when using a combination of cavity and isolation options. Cavities do not have solenoid clearance.</td> </tr> <tr> <td>L</td> <td>Relief cavity is located left of the isolation.</td> </tr> <tr> <td>R</td> <td>Relief cavity is located right of the isolation.</td> </tr> <tr> <td>D</td> <td>Two relief cavities, one each side of isolation.</td> </tr> </table>	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.
Thread Type																																																			
Omit	Inch threads / ports																																																		
M	Metric threads / ports																																																		
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: 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...PF	Available with spacing code 5																																																		
PA...PE	Available with spacing code 7																																																		
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.																																																		

D08 Series Circuit Manifold



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

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.

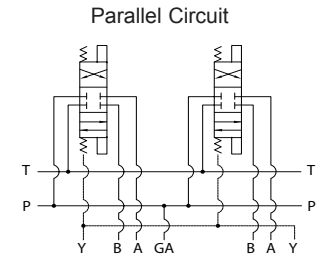
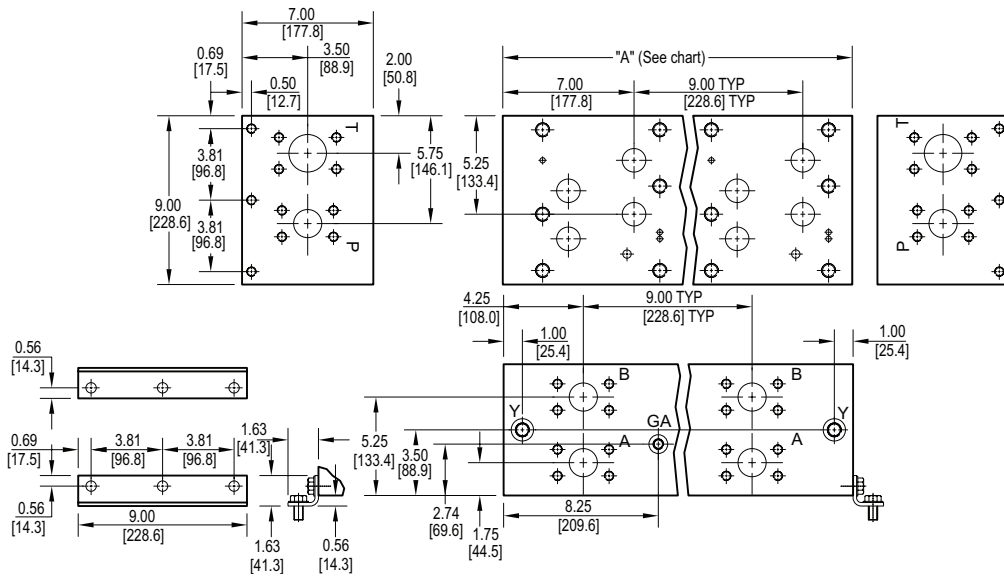
Ordering Information

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

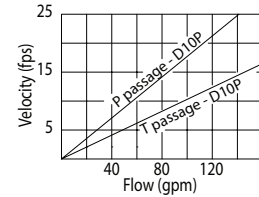
Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																																										
<table border="1"> <thead> <tr> <th colspan="2">Material</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> </tr> <tr> <td>D</td> <td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> </tr> </tbody> </table>	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.		<table border="1"> <thead> <tr> <th colspan="2">Circuit</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Series Circuit</td> </tr> </tbody> </table>	Circuit		S	Series Circuit	<table border="1"> <thead> <tr> <th colspan="2">Valve Spacing</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5.25 inch 133.4 mm</td> </tr> <tr> <td>7</td> <td>7.00 inch 177.8 mm</td> </tr> </tbody> </table>	Valve Spacing		5	5.25 inch 133.4 mm	7	7.00 inch 177.8 mm	<table border="1"> <thead> <tr> <th colspan="2">Options</th> </tr> </thead> <tbody> <tr> <td colspan="2">No options available.</td> </tr> </tbody> </table>	Options		No options available.																																								
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.																																																																
<table border="1"> <thead> <tr> <th colspan="2">Valve Pattern</th> </tr> </thead> <tbody> <tr> <td>D08</td> <td>ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information</td> </tr> </tbody> </table>		Valve Pattern		D08	ISO 4401-08-07 NFPA T3.5.1-D08 See Tech Information	<table border="1"> <thead> <tr> <th colspan="2">No. of Stations</th> </tr> </thead> <tbody> <tr> <td colspan="2">Aluminum</td> </tr> <tr> <td>02...03</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...03</td> <td>Available with spacing code 7</td> </tr> <tr> <td colspan="2">Ductile Iron</td> </tr> <tr> <td>02...03</td> <td>Available with spacing code 5</td> </tr> <tr> <td>02...03</td> <td>Available with spacing code 7</td> </tr> </tbody> </table>		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	<table border="1"> <thead> <tr> <th colspan="6">Port Threads</th> </tr> <tr> <th></th> <th>P,A,B</th> <th>T</th> <th>X & Y</th> <th>GA</th> <th></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>NPTF • ANSI B1.20.3</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td>S</td> <td>SAE • ISO 11926</td> <td>-16</td> <td>-20</td> <td>-6</td> <td>-6</td> </tr> <tr> <td>B</td> <td>BSPP • ISO 1179</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>none</td> </tr> <tr> <td>M</td> <td>ISO • ISO 6149</td> <td>M33</td> <td>M42</td> <td>M14</td> <td>none</td> </tr> <tr> <td>T</td> <td>BSPT • ISO 7</td> <td>1.00</td> <td>1.25</td> <td>0.38</td> <td>none</td> </tr> </tbody> </table>	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
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																																																											

D10 Manifolds 

D10 Parallel Circuit Manifold - Flange Ports



Flow Curve



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.

Circuit	
P	Parallel Circuit Standard Flow

Valve Spacing	
9	9.00 inch 228.6 mm

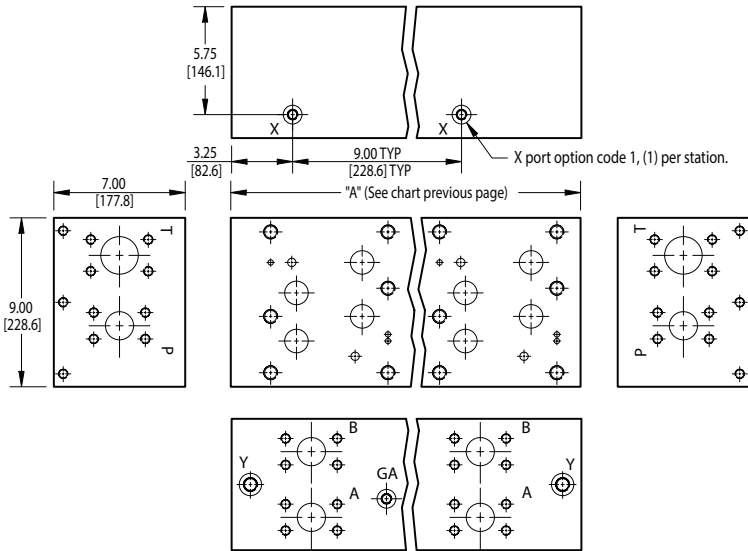
Options	
See next page for available options and ordering codes.	

Valve Pattern	
D10	ISO 4401-10-08 NFFA T3.5.1-D10 See Tech Information

No. of Stations	
Aluminum	
01...05	Available with spacing code 9
Ductile Iron	
01...04	Available with spacing code 9

Port Threads		
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

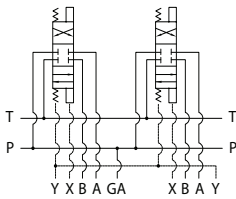
Options - D10 Parallel Manifold - Flange Ports



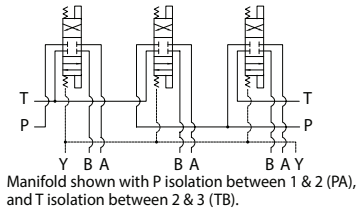
ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-05
B	02 & 03	03-05
C	03 & 04	04-05
D	04 & 05	05

* Stations are numbered left to right.

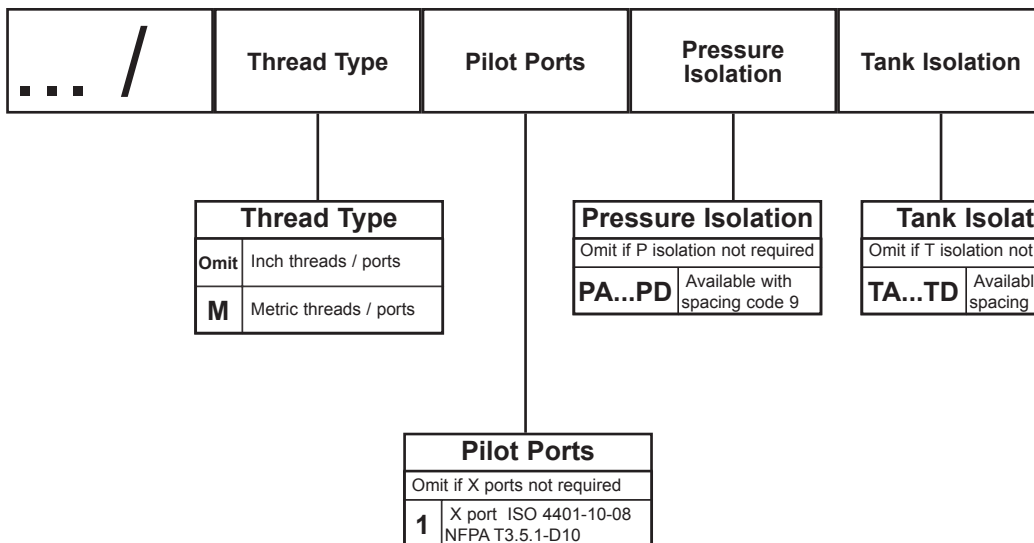
Parallel Circuit with X



Parallel Circuit with Isolations



Ordering Information



This page intentionally blank.



FLEXMOUNT

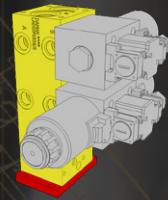
FLEXIBLE STANDARD MANIFOLD SOLUTIONS

FlexMount manifolds offer three flexible mounting options to choose from (vertical mounting, thru bolt mounting, and foot bracket mounting) in a more compact layout package than our traditional D03 and D05 bar manifolds.

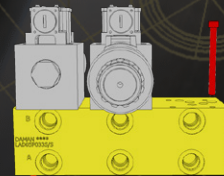
Why choose FlexMount solutions?

- Choose your mounting preference: vertical, thru bolt, or foot bracket.
- Opt for no mounting hardware to reduce cost when you have your own mounting solution.
- Narrow 2.00" valve spacing instead of traditional 2.125" for compact space requirements.
- Pressure gauge port is optional for additional cost savings when GA is not required.
- Smaller compact block size to minimize your manifold footprint.

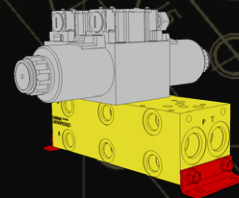
VERTICAL MOUNTING OPTION



THRU BOLT MOUNTING OPTION

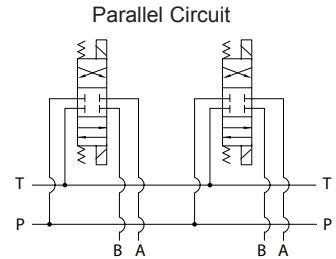
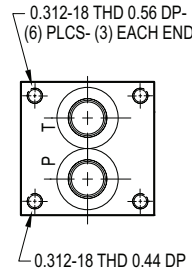
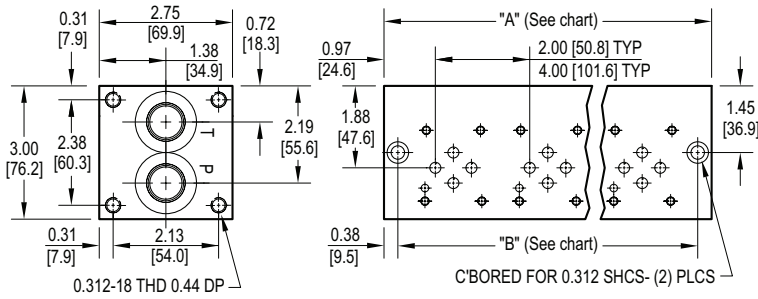


FOOT BRACKET MOUNTING OPTION



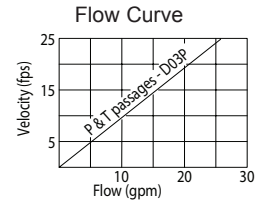
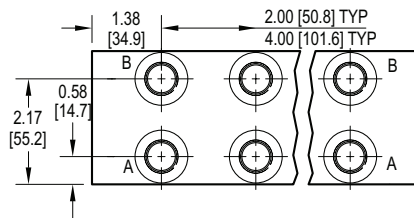
CONTACT US AT INFO@DAMAN.COM TO LEARN MORE

D03 FlexMount Parallel Circuit Manifold



NOTE:
Mounting hardware is sold separately.

See page 62 for available bracket, screw, flange and gasket mounting kits.



Rated flow 14 gpm @ 15 fps

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]				

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

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]	

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.

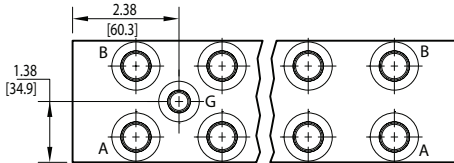
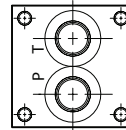
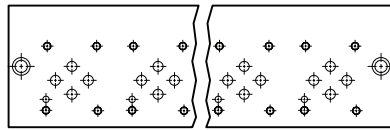
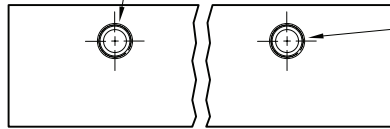
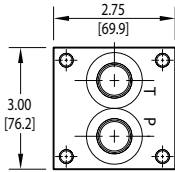
Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																								
L FlexMount	<table border="1"> <tr> <th>Material</th> <td>A Aluminum - 6061-T6 3000† psi • 20.7 MPa</td> <td>D Ductile Iron - D4512 5000† psi • 34.5 MPa</td> </tr> <tr> <td>† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td> <td></td> <td></td> </tr> </table>	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.			D03 ISO 4401-03-02 NFPA T3.5.1-D03 See Tech Information	P Parallel Circuit Standard Flow	<table border="1"> <tr> <th colspan="2">Aluminum</th> </tr> <tr> <td>01...10</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...05</td> <td>Available with spacing code 4</td> </tr> <tr> <th colspan="2">Ductile Iron</th> </tr> <tr> <td>01...06</td> <td>Available with spacing code 2</td> </tr> <tr> <td>02...04</td> <td>Available with spacing code 4</td> </tr> </table>	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	<table border="1"> <tr> <th colspan="2">Valve Spacing</th> </tr> <tr> <td>2</td> <td>2.00 inch [50.8 mm]</td> </tr> <tr> <td>4</td> <td>4.00 inch [101.6 mm]</td> </tr> </table>	Valve Spacing		2	2.00 inch [50.8 mm]	4	4.00 inch [101.6 mm]	<table border="1"> <tr> <th colspan="3">Port Threads</th> </tr> <tr> <th>P & T</th> <th>A & B</th> <td></td> </tr> <tr> <td>P NPTF • ANSI B1.20.3</td> <td>0.50</td> <td>0.38</td> </tr> <tr> <td>S SAE • ISO 11926</td> <td>-10</td> <td>-8</td> </tr> </table>	Port Threads			P & T	A & B		P NPTF • ANSI B1.20.3	0.50	0.38	S SAE • ISO 11926	-10	-8	<table border="1"> <tr> <th colspan="2">Options</th> </tr> <tr> <td colspan="2">See next page for available options and ordering codes.</td> </tr> </table>	Options		See next page for available options and ordering codes.	
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.																																															
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																																														
Valve Spacing																																															
2	2.00 inch [50.8 mm]																																														
4	4.00 inch [101.6 mm]																																														
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.																																															

Options - D03 FlexMount Parallel Manifold

Contact Daman for cavity locations if critical.

Valve cavity location when cavity, or cavity-isolation combination L or D is specified.

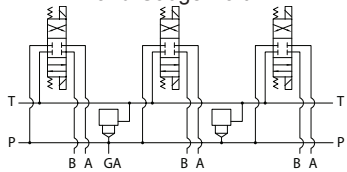
Valve cavity location for cavity-isolation combination R or D.



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

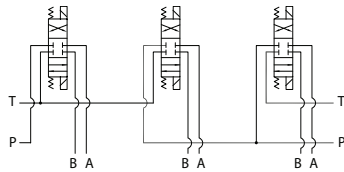
* Stations are numbered left to right.

Parallel Circuit with Cavity and Gauge Port



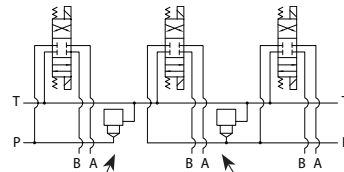
Valves with P in the nose and T out the side must be used.

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 availability.

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	

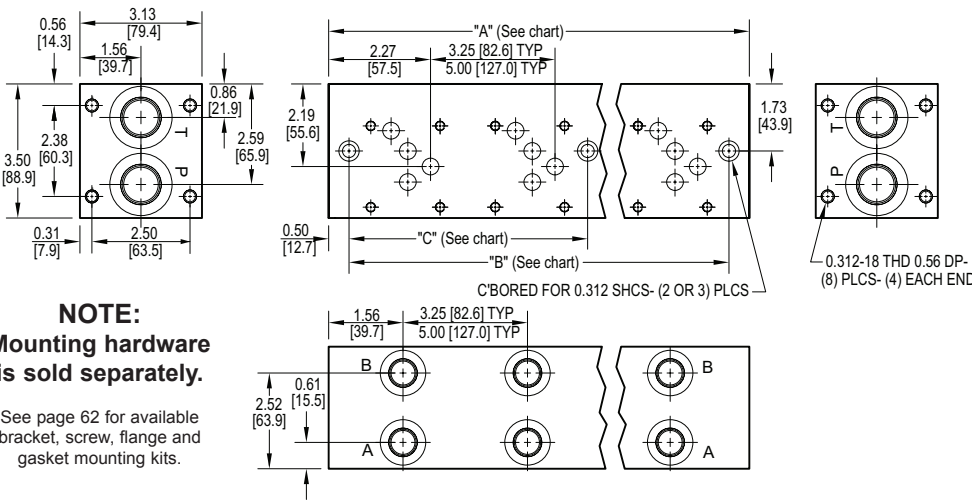
Cavity	
Omit if cavity not required.	
C	Common cavity: No solenoid clearance C-10-2 (P in nose) For valves w/1" hex max.
S	Sun Cavity: T-10A (P in nose) See Tech Info for valves.

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.

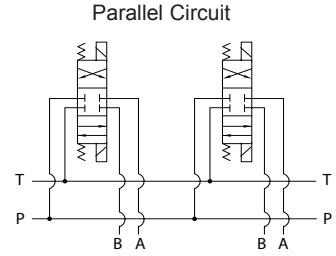
Pressure Isolation	
Omit if P isolation not required. Not available with G option.	
PA...PJ	Available with spacing code 2
PA...PD	Available with spacing code 4

D05 FlexMount Parallel Circuit Manifold

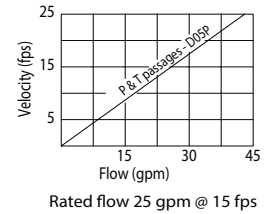


NOTE:
Mounting hardware is sold separately.

See page 62 for available bracket, screw, flange and gasket mounting kits.



Flow Curve



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].

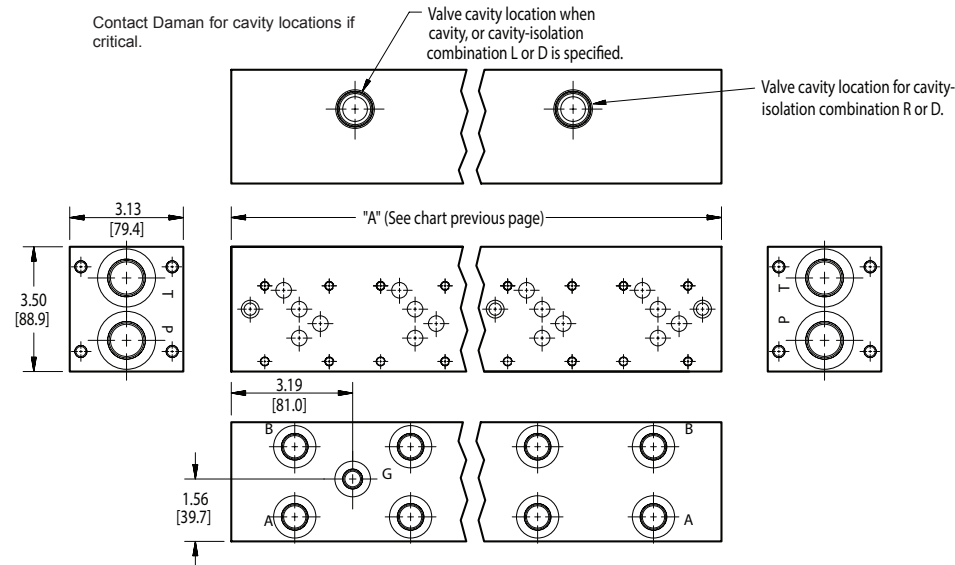
Specifications, descriptions, and dimensional data are subject to correction or change without notice or incurring obligation. Download latest catalog page revisions at www.daman.com.

Ordering Information

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

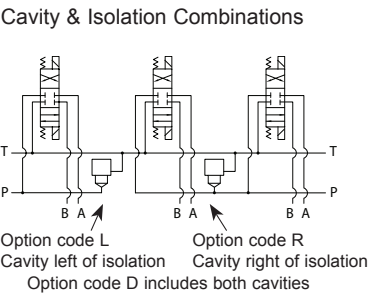
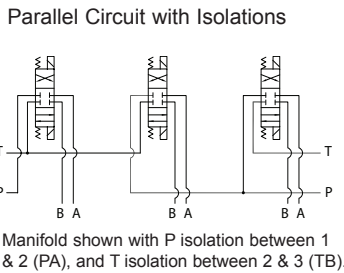
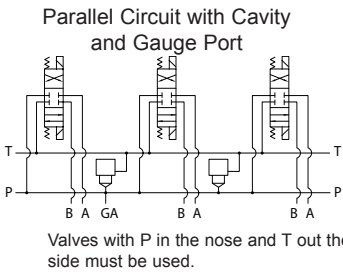
Product Line	Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	Options																																														
L FlexMount	<table border="1"> <tr><th colspan="2">Material</th></tr> <tr><td>A</td><td>Aluminum - 6061-T6 3000† psi • 20.7 MPa</td></tr> <tr><td>D</td><td>Ductile Iron - D4512 5000† psi • 34.5 MPa</td></tr> <tr><td colspan="2">† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.</td></tr> </table>	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.		<table border="1"> <tr><th colspan="2">Valve Pattern</th></tr> <tr><td>D05</td><td>ISO 4401-05-04 INFA T3.5.1-D05 See Tech Information</td></tr> </table>	Valve Pattern		D05	ISO 4401-05-04 INFA T3.5.1-D05 See Tech Information	<table border="1"> <tr><th colspan="2">Circuit</th></tr> <tr><td>P</td><td>Parallel Circuit Standard Flow</td></tr> </table>	Circuit		P	Parallel Circuit Standard Flow	<table border="1"> <tr><th colspan="2">No. of Stations</th></tr> <tr><th colspan="2">Aluminum</th></tr> <tr><td>01...07</td><td>Available with spacing code 3</td></tr> <tr><td>02...05</td><td>Available with spacing code 5</td></tr> <tr><th colspan="2">Ductile Iron</th></tr> <tr><td>01...06</td><td>Available with spacing code 3</td></tr> <tr><td>02...04</td><td>Available with spacing code 5</td></tr> </table>	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	<table border="1"> <tr><th colspan="2">Valve Spacing</th></tr> <tr><td>3</td><td>3.25 inch [82.6 mm]</td></tr> <tr><td>5</td><td>5.00 inch [127.0 mm]</td></tr> </table>	Valve Spacing		3	3.25 inch [82.6 mm]	5	5.00 inch [127.0 mm]	<table border="1"> <tr><th colspan="2">Port Threads</th></tr> <tr><td>P</td><td>NPTF • ANSI B1.20.3</td></tr> <tr><td>S</td><td>SAE • ISO 11926</td></tr> </table>	Port Threads		P	NPTF • ANSI B1.20.3	S	SAE • ISO 11926	<table border="1"> <tr><th colspan="2">Options</th></tr> <tr><td colspan="2">See next page for available options and ordering codes.</td></tr> </table>	Options		See next page for available options and ordering codes.	
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 INFA T3.5.1-D05 See Tech Information																																																				
Circuit																																																					
P	Parallel Circuit Standard Flow																																																				
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																																																				
Valve Spacing																																																					
3	3.25 inch [82.6 mm]																																																				
5	5.00 inch [127.0 mm]																																																				
Port Threads																																																					
P	NPTF • ANSI B1.20.3																																																				
S	SAE • ISO 11926																																																				
Options																																																					
See next page for available options and ordering codes.																																																					

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.



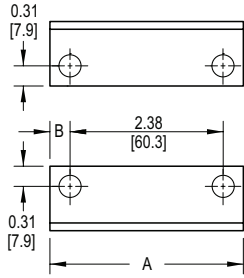
- NOTES:**
- 1) The GA port is not available on a (1) station manifold.
 - 2) The GA port is not available when a pressure isolation is specified.
 - 3) Some cavity and isolation combinations are not possible. Consult factory to determine availability.

Ordering Information

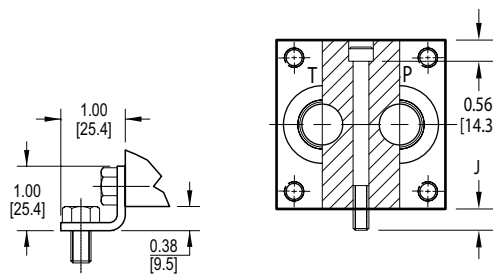
...	Gauge Port	Cavity	Pressure Isolation	Tank Isolation	Cavity & Isolation Combinations
	<p style="text-align: center;">Gauge Port</p> <p>Omit if gauge port not required.</p> <p>G Gauge Port for system pressure</p> <p>If Port Thread code is: P, then Gauge port = 0.25 NPTF S, then Gauge port = -4 SAE</p>	<p style="text-align: center;">Cavity</p> <p>Omit if cavity not required.</p> <p>C Common cavity: With solenoid clearance C-10-2 (P in nose) For valves w/1" hex max.</p> <p>S Sun Cavity: T-3A (P in nose) See Tech Info for valves.</p>	<p style="text-align: center;">Pressure Isolation</p> <p>Omit if P isolation not required. Not available with G option.</p> <p>PA...PF Available with spacing code 3</p> <p>PA...PD Available with spacing code 5</p>	<p style="text-align: center;">Tank Isolation</p> <p>Omit if T isolation not required.</p> <p>TA...TF Available with spacing code 3</p> <p>TA...TD Available with spacing code 5</p>	<p style="text-align: center;">Cavity & Isolation Combinations</p> <p>Specify when using a combination of cavity and isolation options. Cavities do have solenoid clearance.</p> <p>L Relief cavity is located left of the isolation.</p> <p>R Relief cavity is located right of the isolation.</p> <p>D Two relief cavities, one each side of isolation.</p>

Mounting Kits for FlexMount Manifolds

Mounting Bracket

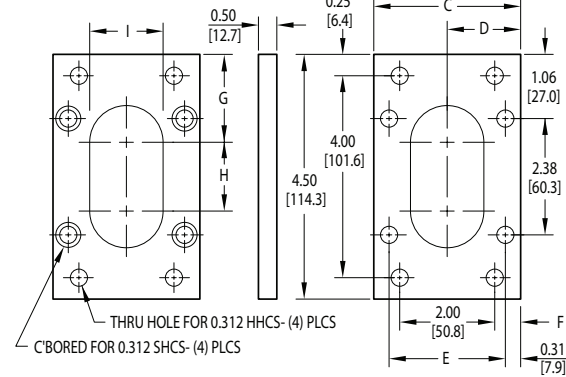


Mounting Screw

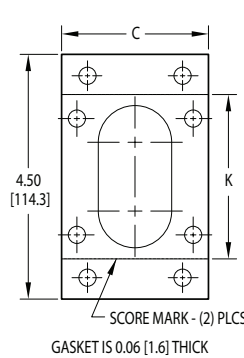


Dim	A	B	C	D	E	F	G	H	I	J	K
D03	3.00 [76.2]	0.31 [7.9]	2.75 [69.9]	1.38 [34.9]	2.13 [54.0]	0.38 [9.5]	1.47 [37.3]	1.47 [37.3]	1.33 [33.7]	0.56 [14.3]	3.25 [82.6]
D05	3.50 [88.9]	0.56 [14.3]	3.13 [79.4]	1.56 [39.7]	2.50 [63.5]	0.56 [14.3]	1.36 [34.6]	1.73 [44.0]	1.61 [41.0]	0.69 [17.5]	3.53 [89.7]

Mounting Flange



Gasket

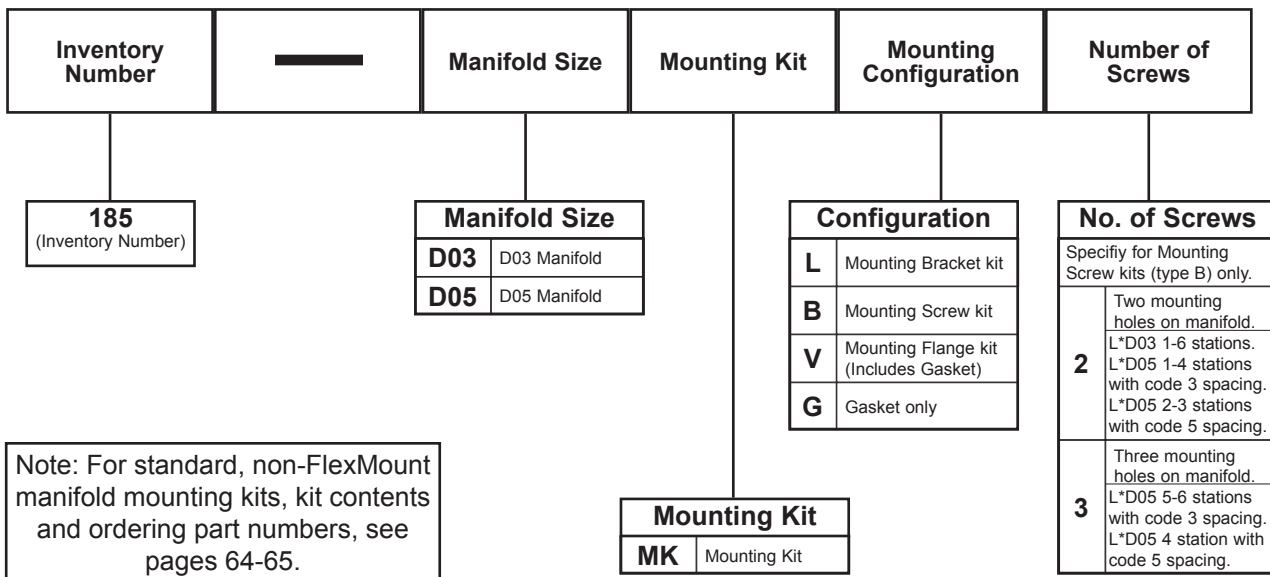


Bill of Materials

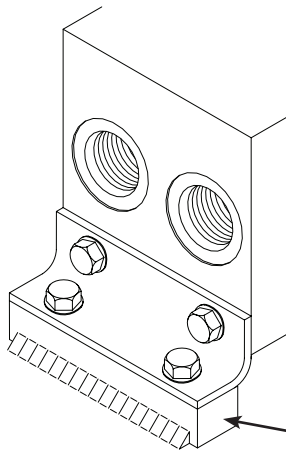
Mounting Bracket and Mounting Flange Kits	185-D03MKL	185-D03MKV	185-D05MKL	185-D05MKV
(2) zinc coated steel brackets	•	•	•	•
(1) zinc coated steel end mounting plate		•		•
(8) 0.312-18 x 0.63 long hex washer head cap screws	•	•	•	•
(1) 0.312-18 x 0.50 long socket head cap screw		•		
(3) 0.312-18 x 0.63 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.

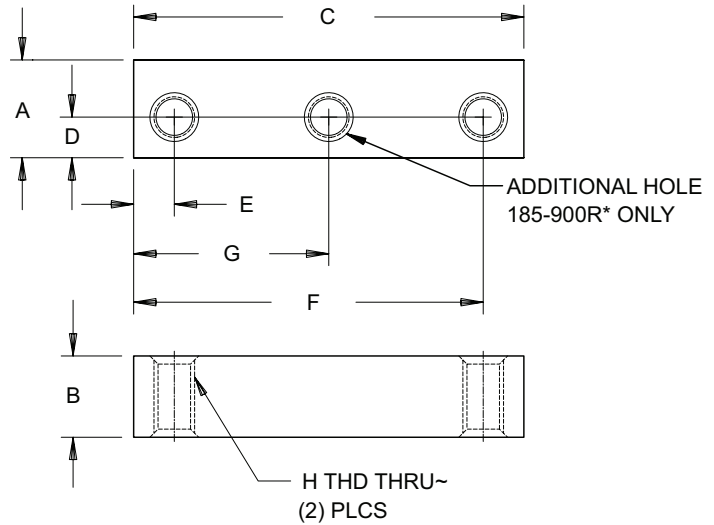
Ordering Information



Mounting Bracket Riser Blocks



Riser block
Material mild steel
Weldable • uncoated

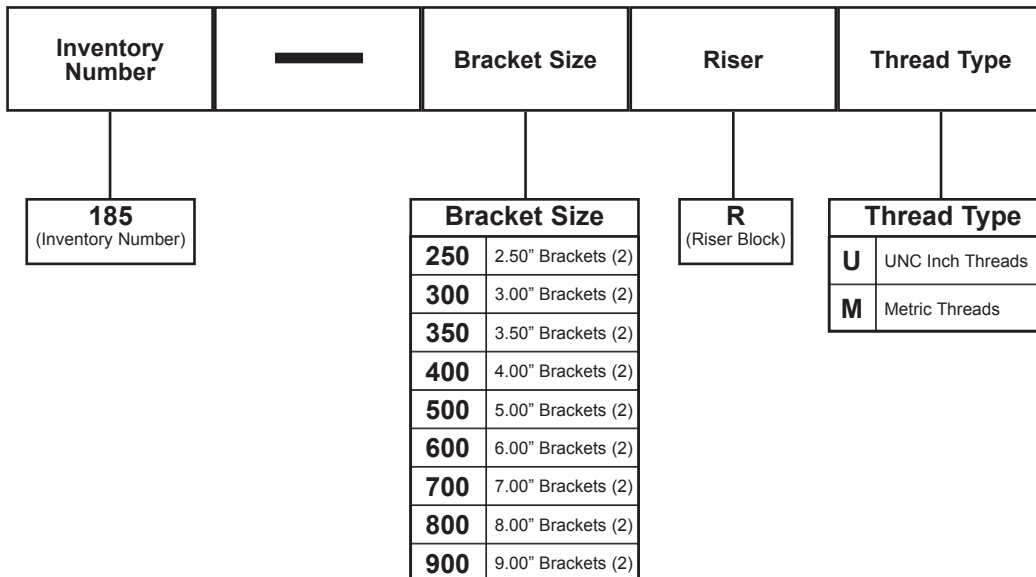


Part No.	A	B	C	D	E	F	G	H THD
185-250RU	0.63	0.50	2.50	0.25	0.25	2.25		0.250-20 UNC-2B
185-250RM	[16.0]	[12.7]	[63.5]	[6.4]	[6.4]	[57.2]	--	M6 x 1 ISO 6H
185-300RU	0.75	0.63	3.00	0.31	0.31	2.69		0.312-18 UNC-2B
185-300RM	[19.1]	[16.0]	[76.2]	[7.9]	[7.9]	[68.3]	--	M8 x 1.25 ISO 6H
185-350RU	0.75	0.63	3.50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

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



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		
* D02 P 01 1 S	8-9	185-250-MKO	n/a	(8) UNC 0.25-20 x 0.50 long hex washer cap screw	
* D02 *** 1 P	8-11	185-250-MKP	(1) 0.25-18 NPTF LSPP		(2) Steel brackets
* 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	
* D02 *** 1 M	8-11	185-250-MKM	n/a	and (8) 0.25 SAE N series washers	
* D02 *** 1 T	8-11	185-250-MKM	n/a		
* D03 P 01 2 P	12-13	185-300-MKO	n/a		
* D03 P 01 2 S	12-13	185-300-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	
* D03 *** * P	12-13, 22-23	185-300-MKP	(1) 0.25-18 NPTF LSPP		(2) Steel brackets
* 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	
* D03 *** * M	12-13, 22-23	185-300-MKM	n/a	and (8) 0.31 SAE N series washers	
* 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	
* D03 HP 01 2 P	16-17	185-400-MKO	n/a		
* D03 HP 01 2 S	16-17	185-400-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	
* D03 HP *** P	16-17	185-400-MKP	(1) 0.25-18 NPTF LSPP		(2) Steel brackets
* 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	
* D03 HP ** * M	16-17	185-400-MKM	n/a	and (8) 0.31 SAE N series washers	
* 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	
* D03 HP ** 4 F	18-19	185-500-MKS	(1) -6 SAE hex socket plug	and (8) 0.38 SAE N series washers	
* 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		
* D05 P 01 3 S	24-25	185-350-MKO	n/a	(8) UNC 0.31-18 x 0.63 long hex washer cap screw	
* D05 *** * P	24-25, 36-37	185-350-MKP	(1) 0.25-18 NPTF LSPP		(2) Steel brackets
* 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	
* D05 *** * M	24-25, 36-37	185-350-MKM	n/a	and (8) 0.31 SAE N series washers	
* 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	
* D05 HP 01 3 P	28-29	185-500-MKO	n/a		
* D05 HP 01 3 S	28-29	185-500-MKO	n/a	(8) UNC 0.38-16 x 0.88 long HHCS	(2) Steel brackets
* D05 H* ** * P	28-29, 38-39	185-500-MKP	(1) 0.25-18 NPTF LSPP	and (8) 0.38 SAE N series washers	
* 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	
* D05 H* ** * M	28-29, 38-39	185-500-MKM	n/a	and (8) 0.38 SAE N series washers	
* 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	(2) Steel brackets
* D05 HP ** 5 F	30-31	185-500-MKS	(1) -6 SAE hex socket plug	and (8) 0.38 SAE N series washers	
* 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.

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		
* D05 JP ** M	34-35	185-500-MKM	n/a		
* D05 JP ** T	34-35	185-500-MKM	n/a	(8) ISO 6H M10-1.5 x 24mm HHCS and (8) 0.38 SAE N series washers	
* 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		
* D07 P ** M	40-41	185-500-MKM	n/a		
* D07 P ** T	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 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		
* D07 HP ** 4 M	42-43	185-600-MKM	n/a		
* D07 HP ** 4 T	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 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		
* 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		
* D08 * ** M	48-49, 54	185-600-MKM	n/a		
* D08 * ** T	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 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		
* D08 HP ** M	50-51	185-700-MKM	n/a		
* D08 HP ** T	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 ** 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

*Mounting hardware not supplied for stainless steel products.