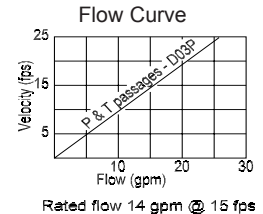
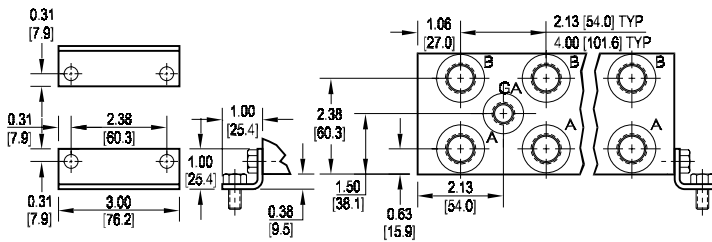
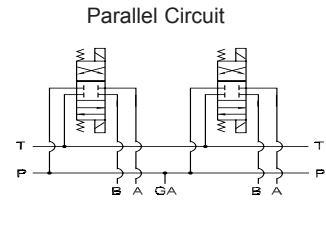
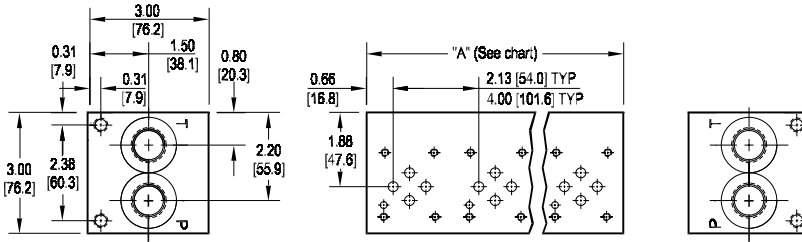


D03 Standard Flow Parallel Circuit Manifold



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

No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
"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]
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]
apx. weight iron 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]								
apx. weight alum lb [kg]	--	6 [3]	9 [4]	12 [5]	15 [7]	19 [9]	22 [10]	25 [11]								
apx. weight iron lb [kg]	--	12 [5]	20 [9]	28 [13]	36 [16]	45 [20]	53 [24]	57 [26]								

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

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

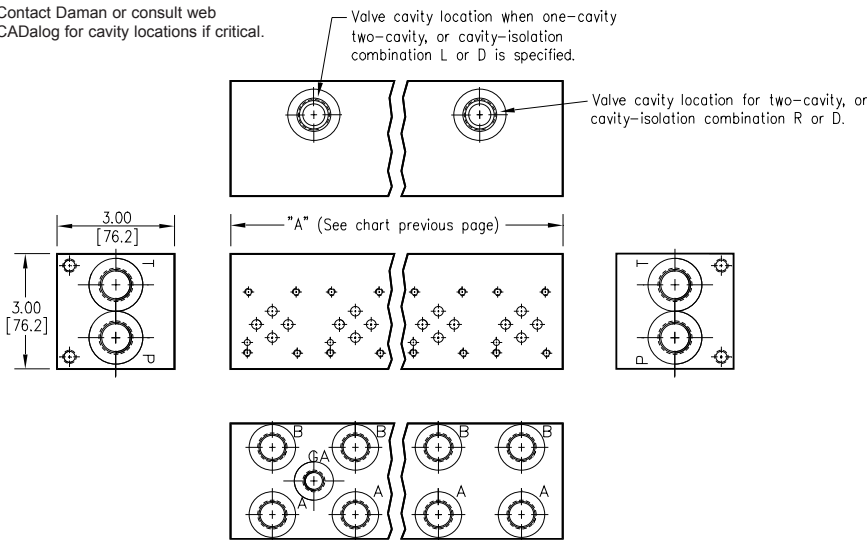
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Ordering Information

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">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;">P</td> <td>Parallel Circuit Standard Flow</td> </tr> </tbody> </table>	Circuit		P	Parallel Circuit Standard 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...16</td> <td>Available with spacing code 2</td> </tr> <tr> <td style="text-align: center;">02...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...16</td> <td>Available with spacing code 2</td> </tr> <tr> <td style="text-align: center;">02...08</td> <td>Available with spacing code 4</td> </tr> </tbody> </table>	No. of Stations		Aluminum		01...16	Available with spacing code 2	02...08	Available with spacing code 4	Ductile Iron		01...16	Available with spacing code 2	02...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="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="4">Port Threads</th></tr> <tr> <th></th> <th>P & T</th> <th>A & B</th> <th>GA</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">P</td> <td>NPTF • ANSI B1.20.3</td> <td>0.50</td> <td>0.38</td> <td>0.25</td> </tr> <tr> <td style="text-align: center;">S</td> <td>SAE • ISO 11926</td> <td>-10</td> <td>-8</td> <td>-6</td> </tr> <tr> <td style="text-align: center;">B</td> <td>BSPP • ISO 1179</td> <td>0.50</td> <td>0.38</td> <td>none</td> </tr> <tr> <td style="text-align: center;">M</td> <td>ISO • ISO 6149</td> <td>M22</td> <td>M18</td> <td>none</td> </tr> <tr> <td style="text-align: center;">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	-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" 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.	
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Options - D03 Standard Flow Parallel Manifold

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

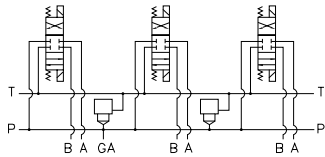


ISOLATIONS

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

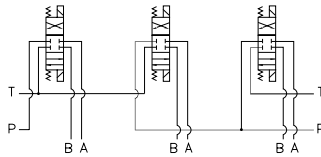
Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
A	01 & 02	02-10
B	02 & 03	03-11
C	03 & 04	04-12
D	04 & 05	05-13
E	05 & 06	06-14
F	06 & 07	07-15
G	07 & 08	08-16
H	08 & 09	09-16
J	09 & 10	10-16
4.00 [101.6] spacing		
A	01 & 02	02-08
B	02 & 03	03-08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

Parallel Circuit with one or two Cavities



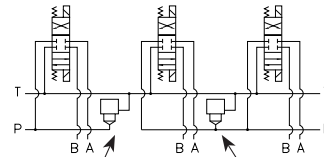
Valves with P in the nose and T out the side must be used.

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
-----	--------	--------------------	----------------	---------------------------------

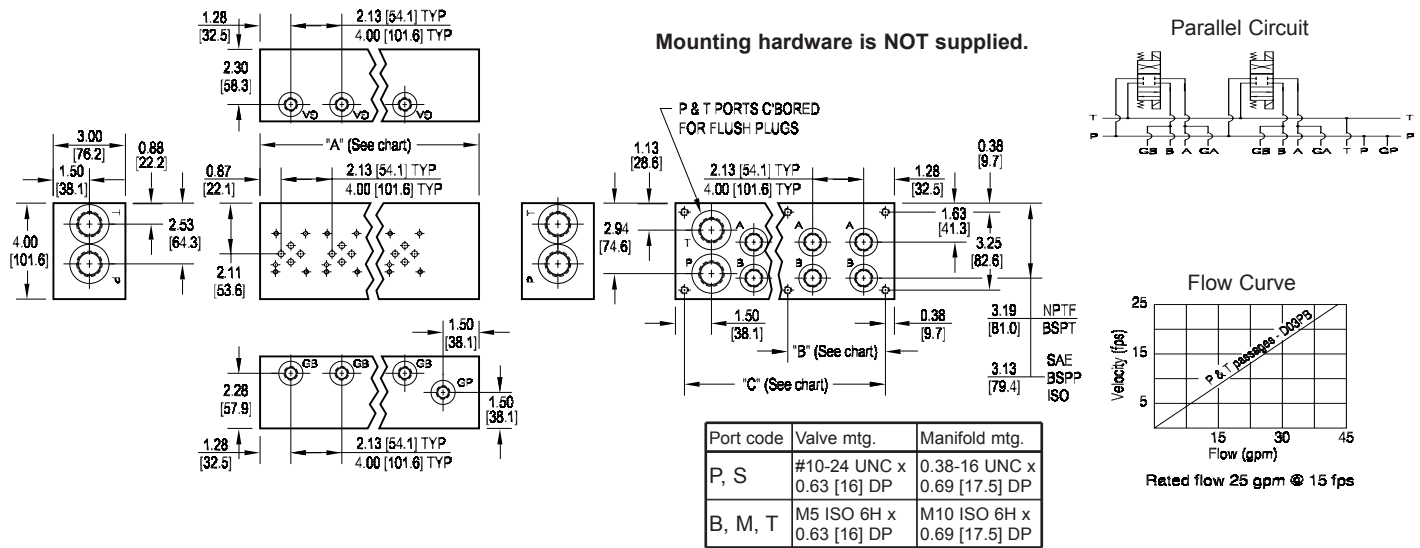
Cavity	
Omit if cavities not required	
C	One Common cavity: No solenoid clearance. C-10-2 (P in nose)
CC	Two Common cavities: With solenoid clearance C-10-2 (P in nose) Available 03-16 stations with spacing code 2; Available 02-08 stations with spacing code 4. Not available in combination with isolation 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.)

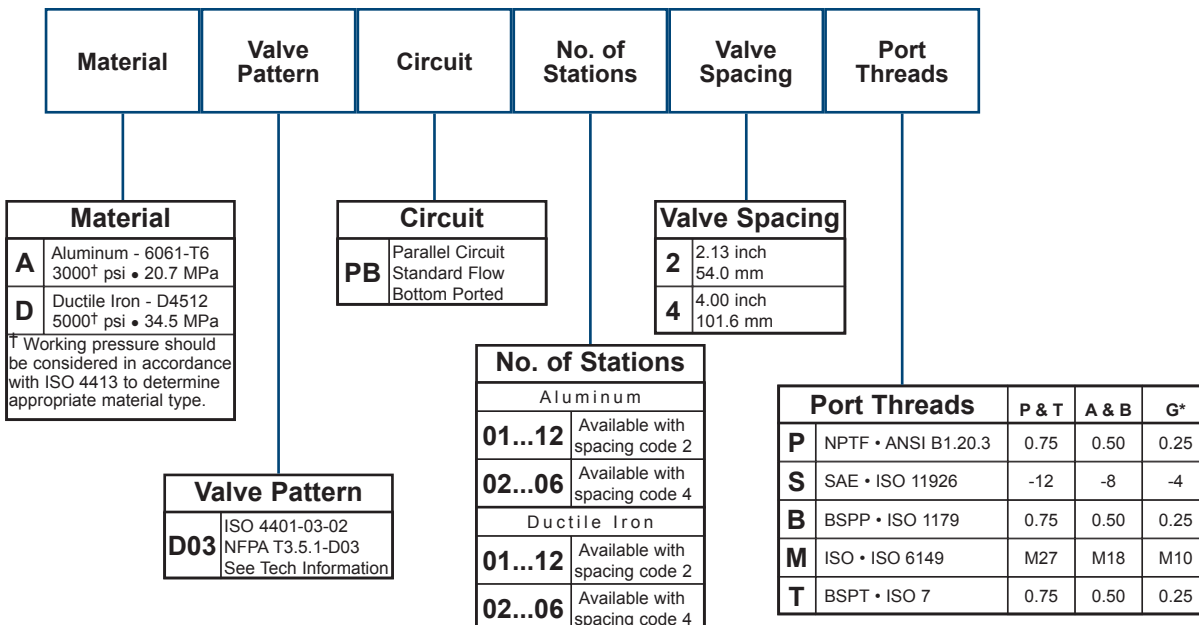
D03 Standard Flow Bottom Ported Manifold



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 iron 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 iron lb [kg]	26 [12]	39 [18]	51 [23]	64 [29]	76 [34]

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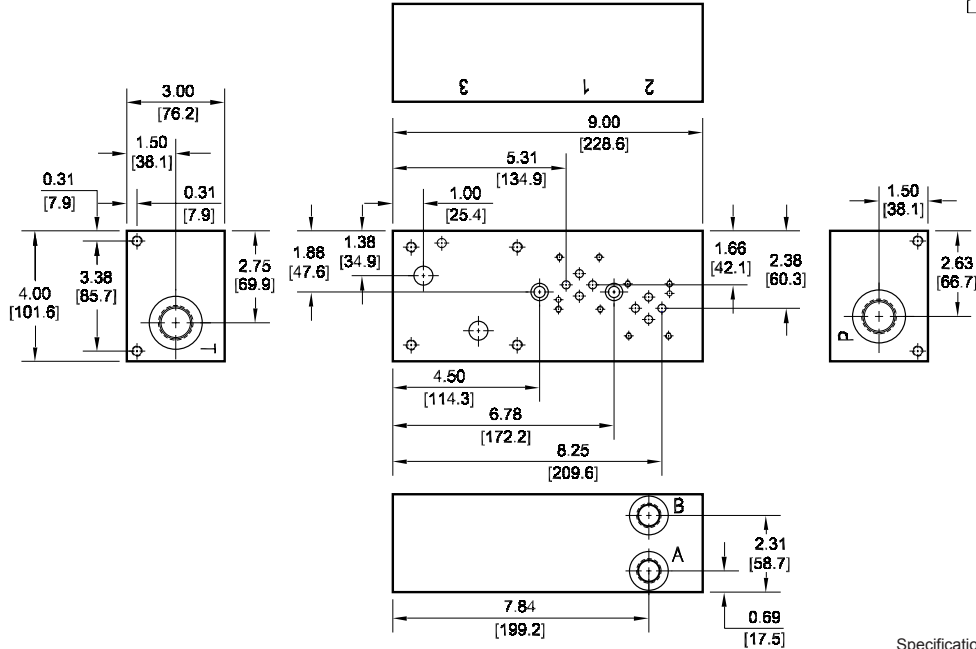
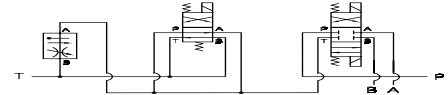
Ordering Information



D03 Tank Line Feed Circuit Manifold

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

“Meter Out” Tank Feed Circuit



Manifold Mounting:
 Manifold bracket mounting kit is supplied. See page 62 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.

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Ordering Information

Material	Valve Pattern	Circuit	Port Threads
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Material	
A	Aluminum - 6061-T6 3000 [†] psi • 20.7 MPa
D	Ductile Iron - D4512 5000 [†] psi • 34.5 MPa

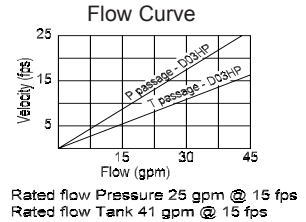
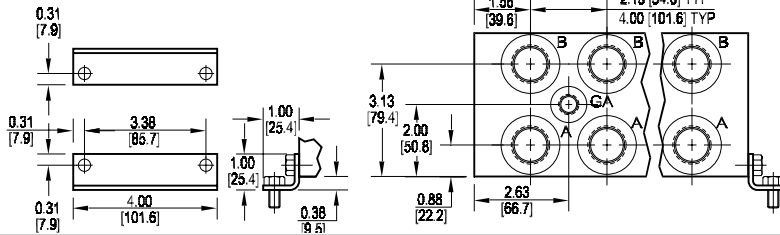
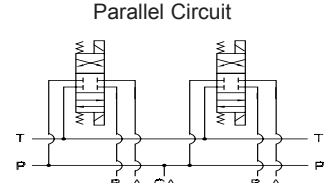
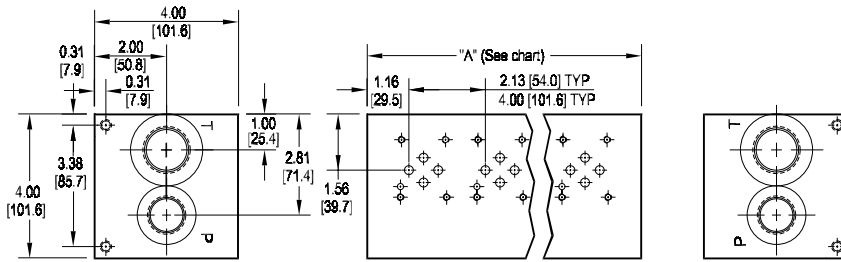
[†] Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.

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

Circuit	
TF	Tank Line Feed Circuit

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

D03 High Flow Parallel Circuit Manifold



No. of stations	* 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
"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]
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]
apx. weight iron lb [kg]	13 [6]	22 [10]	30 [14]	39 [18]	48 [22]	57 [26]	66 [30]	74 [34]	83 [38]	92 [42]	--	--	--	--	--	--
"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]								
apx. weight alum lb [kg]	--	11 [5]	17 [8]	24 [11]	30 [14]	37 [17]	43 [20]	49 [22]								
apx. weight iron lb [kg]	--	29 [13]	46 [21]	62 [28]	79 [36]	96 [44]	112 [51]	129 [59]								

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

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

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

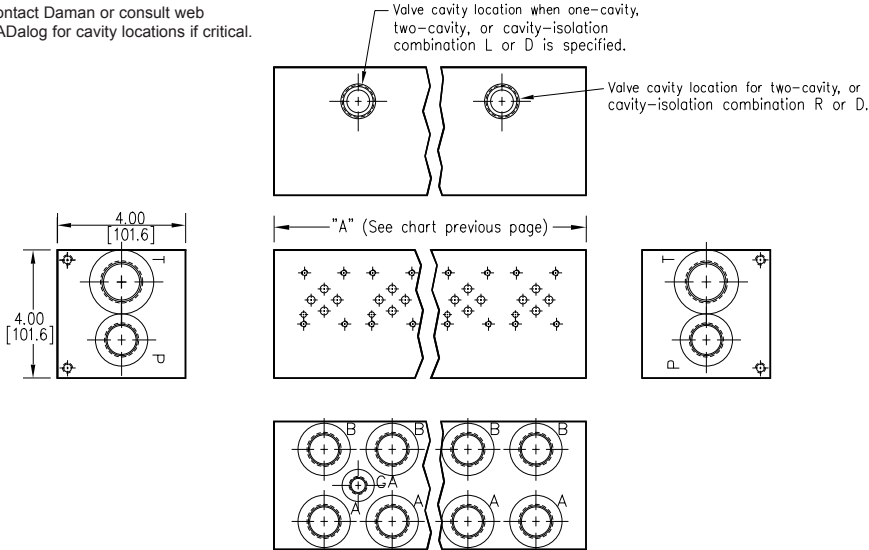
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Ordering Information

Material	Valve Pattern	Circuit	No. of Stations	Valve Spacing	Port Threads	/	Options																																																																					
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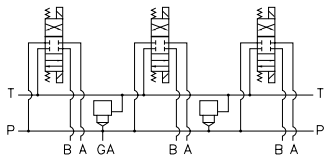
Options - D03 High Flow Parallel Manifold

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



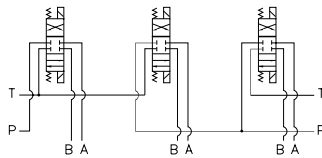
ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
2.125 [54.0] spacing		
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	09-16
J	09 & 10	10-16
4.00 [101.6] 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

Parallel Circuit with one or two Cavities



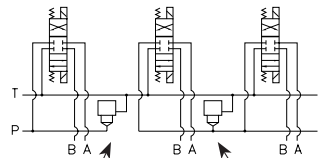
Valves with P in the nose and T out the side must be used.

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

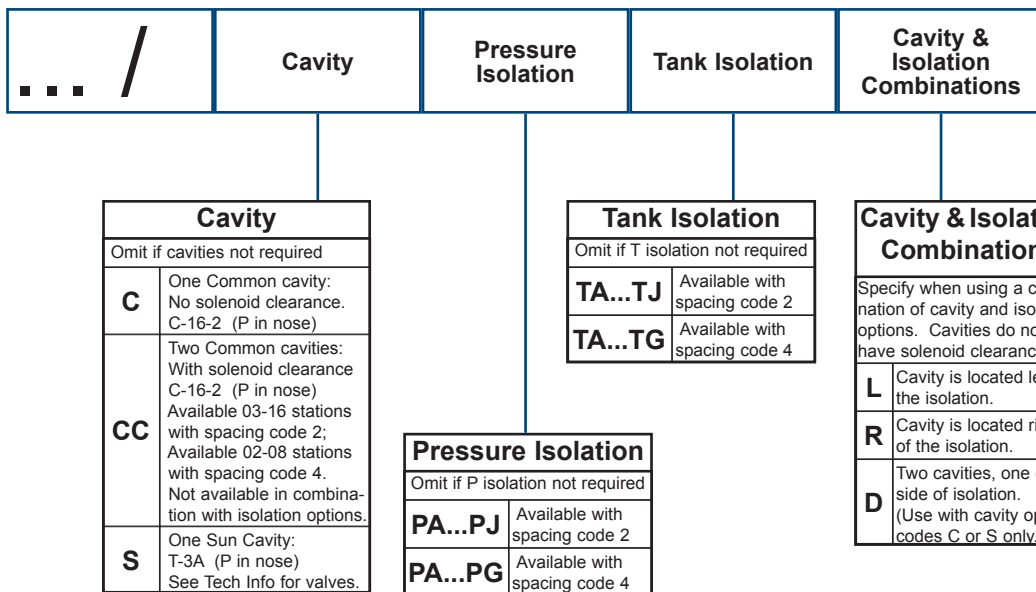
Option code D includes both cavities

* Stations are numbered left to right.

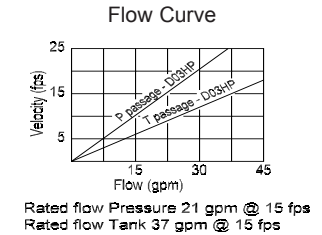
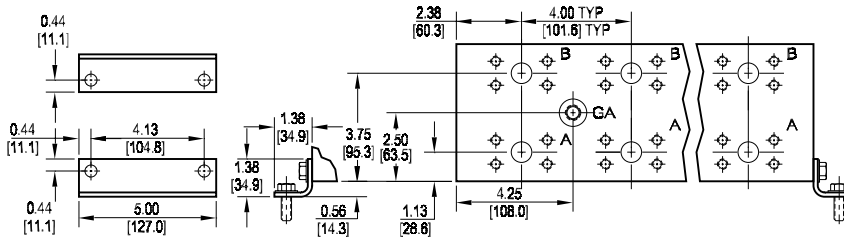
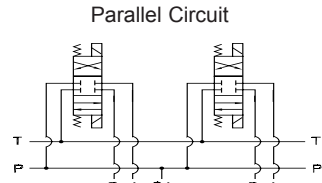
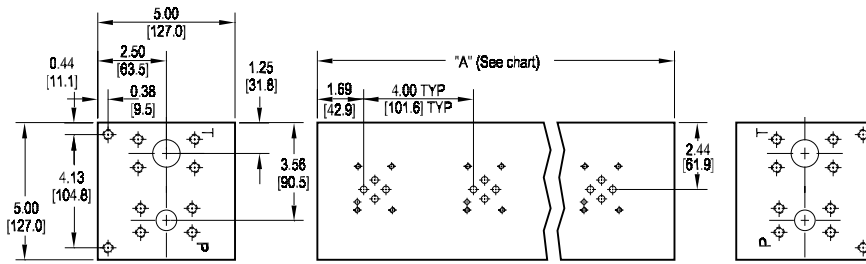
NOTES:

- 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



D03 High Flow Parallel Circuit Manifold - Flange Ports



No. of stations	* 01	02	03	04	05	06	07	08
"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]
apx. weight alum lb [kg]	12 [5.5]	22 [10]	32 [14.5]	42 [19]	52 [23.5]	62 [28]	72 [33]	82 [37]
apx. weight iron lb [kg]	31 [14]	57 [26]	83 [38]	109 [49]	135 [61]	161 [73]	187 [85]	213 [97]

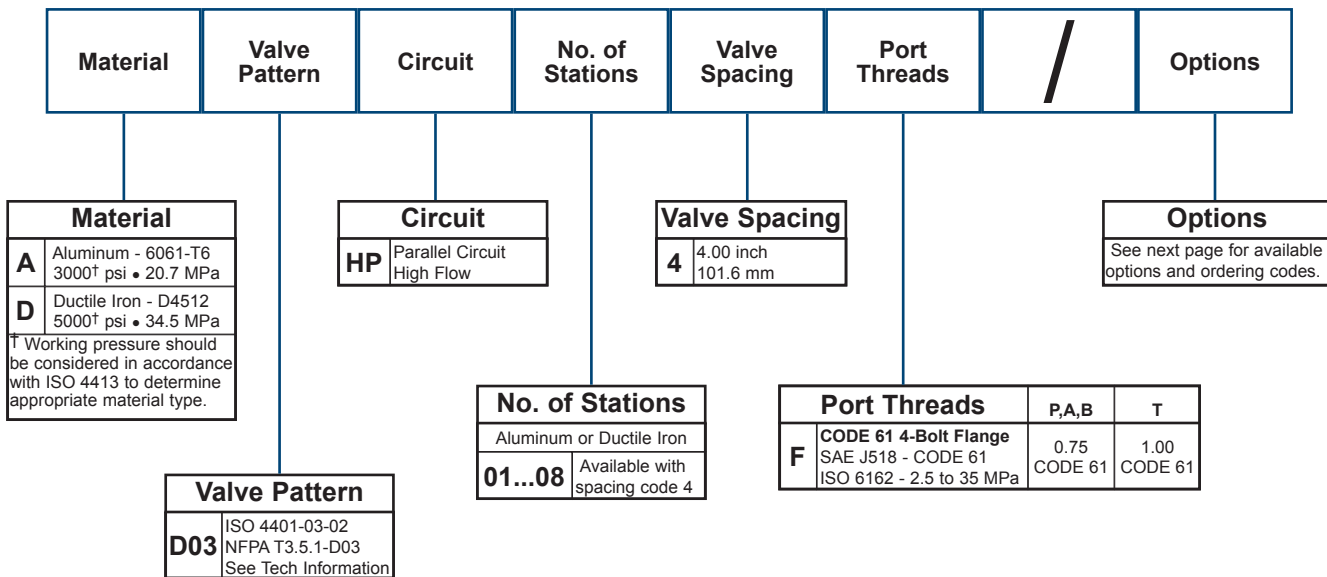
All mounting hardware is supplied.
See page 62 for itemized list.

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

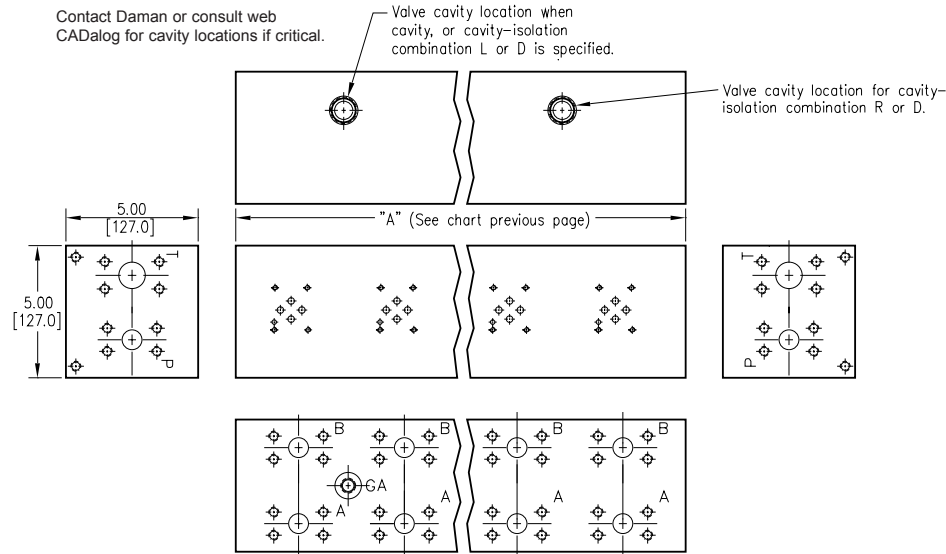
* Length of 01 station with relief cavity is 5.75 [146.1]. Gauge port not available on 01 station.

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Ordering Information



Options - D03 High Flow Parallel Manifold Flange Ports

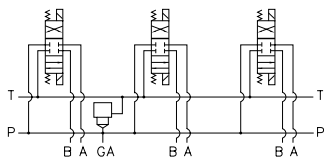


ISOLATIONS		
Daman isolation options allow a manifold to have two independent pressure and/or tank ports. Isolations are drilled rather than plugged to ensure a leakproof and failproof isolation.		
Ordering code letter:	* Isolation is between stations:	Available # of stations:
A	01 & 02	02-08
B	02 &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

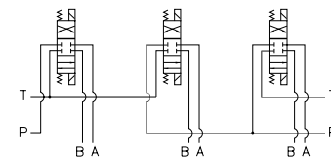
NOTES:	
1)	The GA port is not available when a pressure isolation is located between 1 & 2.
2)	Some cavity and isolation combinations are not possible. Consult factory to determine availability.

Parallel Circuit with Cavity



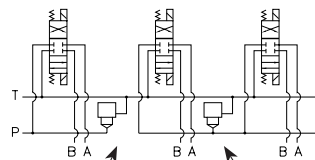
Valves with P in the nose and T out the side must be used.

Parallel Circuit with Isolations



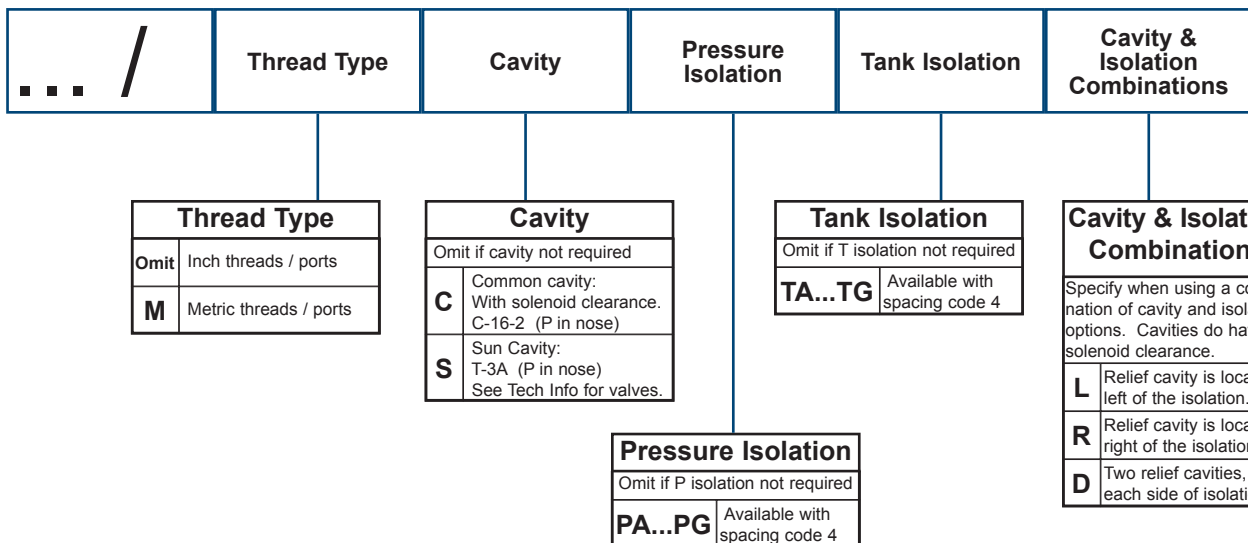
Manifold shown with P isolation between 1 & 2 (PA), and T isolation between 2 & 3 (TB).

Cavity & Isolation Combinations

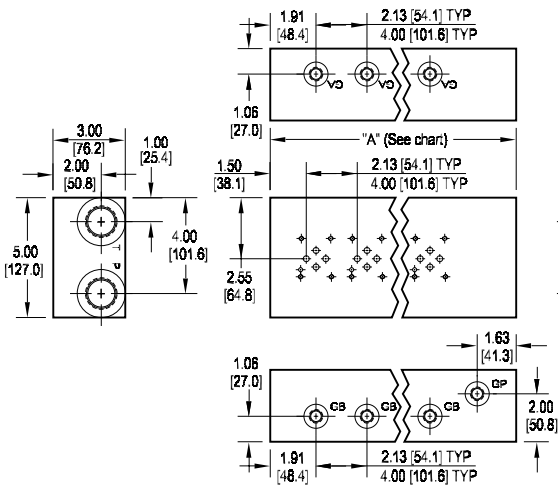


Option code L
Cavity left of isolation Cavity right of isolation
Option code D includes both cavities

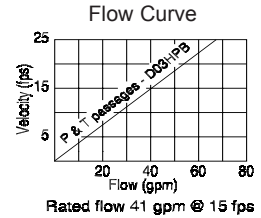
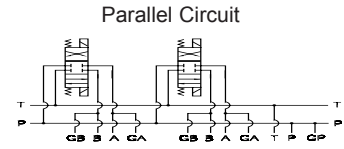
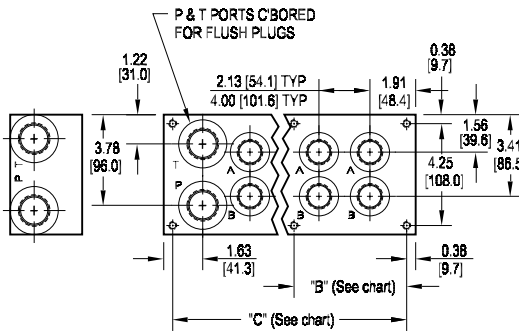
Ordering Information



D03 High Flow Bottom Ported Manifold



Mounting hardware is NOT supplied.

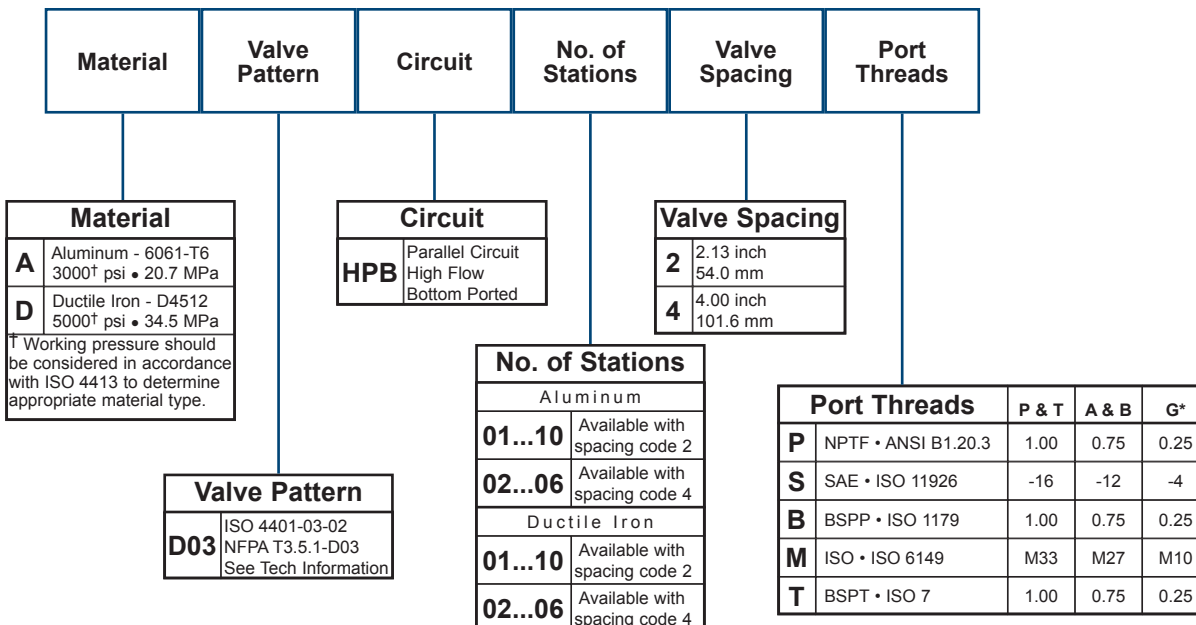


Port code	Valve mtg.	Manifold mtg.
P, S	#10-24 UNC x 0.56 [14.3] DP	0.38-16 UNC x 1.00 [25.4] DP
B, M, T	M5 ISO 6H x 0.56 [14.3] DP	M10 ISO 6H x 1.00 [25.4] DP


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 iron lb [kg]	21 [10]	30 [13]	38 [17]	46 [21]	55 [25]	63 [29]	71 [32]	79 [36]	88 [40]	96 [44]	apx. weight iron lb [kg]	37 [17]	53 [24]	68 [31]	84 [38]	99 [45]

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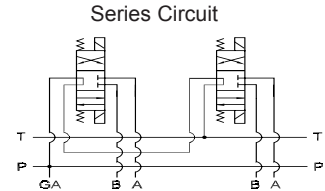
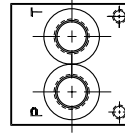
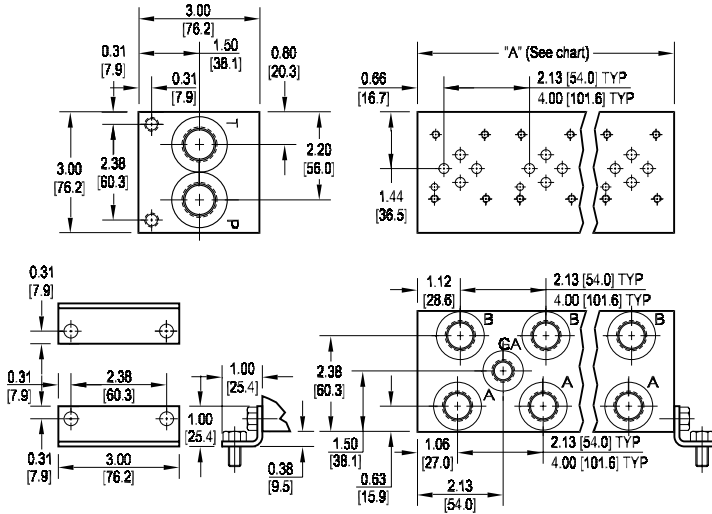
Ordering Information



Custom Products
Standard Manifolds
Cover Plates
Valve Adaptors
Subplates
Servo Valve Subplates
Tapping Plates
DIN Cartridge Valve Bodies
Header and Junction Blocks
Technical Information

D03 Series Circuit Manifolds 

D03 Series Circuit Manifold



All mounting hardware is supplied.
See page 62 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 iron 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 iron 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.

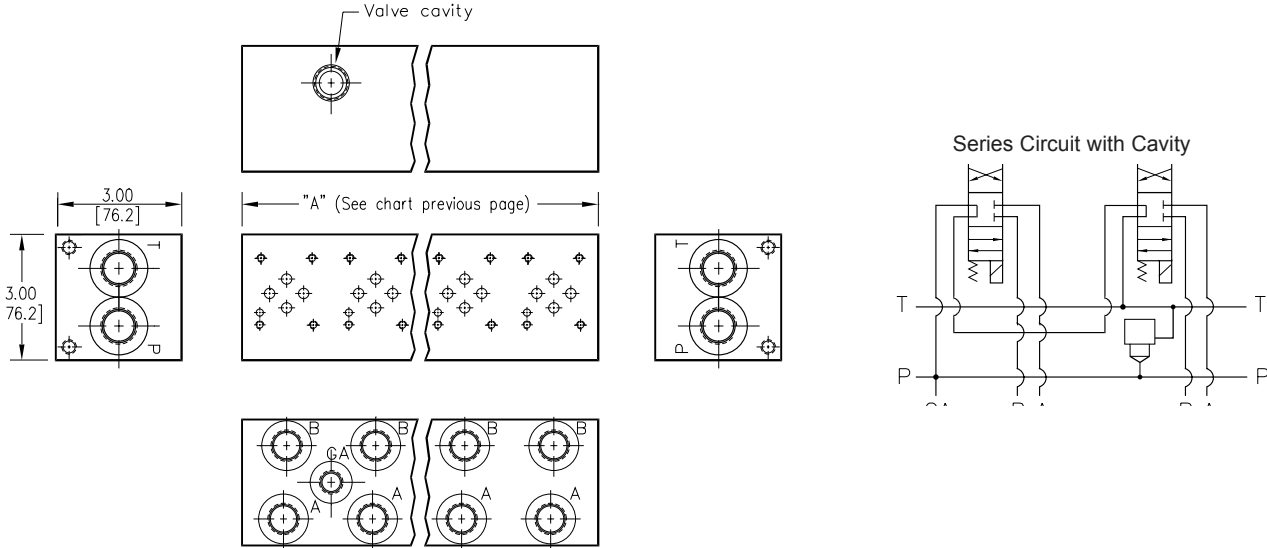
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B	BSPP • ISO 1179	0.50	0.38																																																																	
M	ISO • ISO 6149	M22	M18																																																																	
T	BSPT • ISO 7	0.50	0.38																																																																	
Options																																																																				
See next page for available options and ordering codes.																																																																				

Options - D03 Series Manifold

Contact Daman or consult web
CADalog 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)
S	Sun Cavity T-10A (P in nose) See Tech Info for valves.