

Hydraulic Valve Manifolds

Better System Design Begins with a Manifold.

CAVITY BODIES

Sun Cavity Bodies - 17-4 Stainless Steel

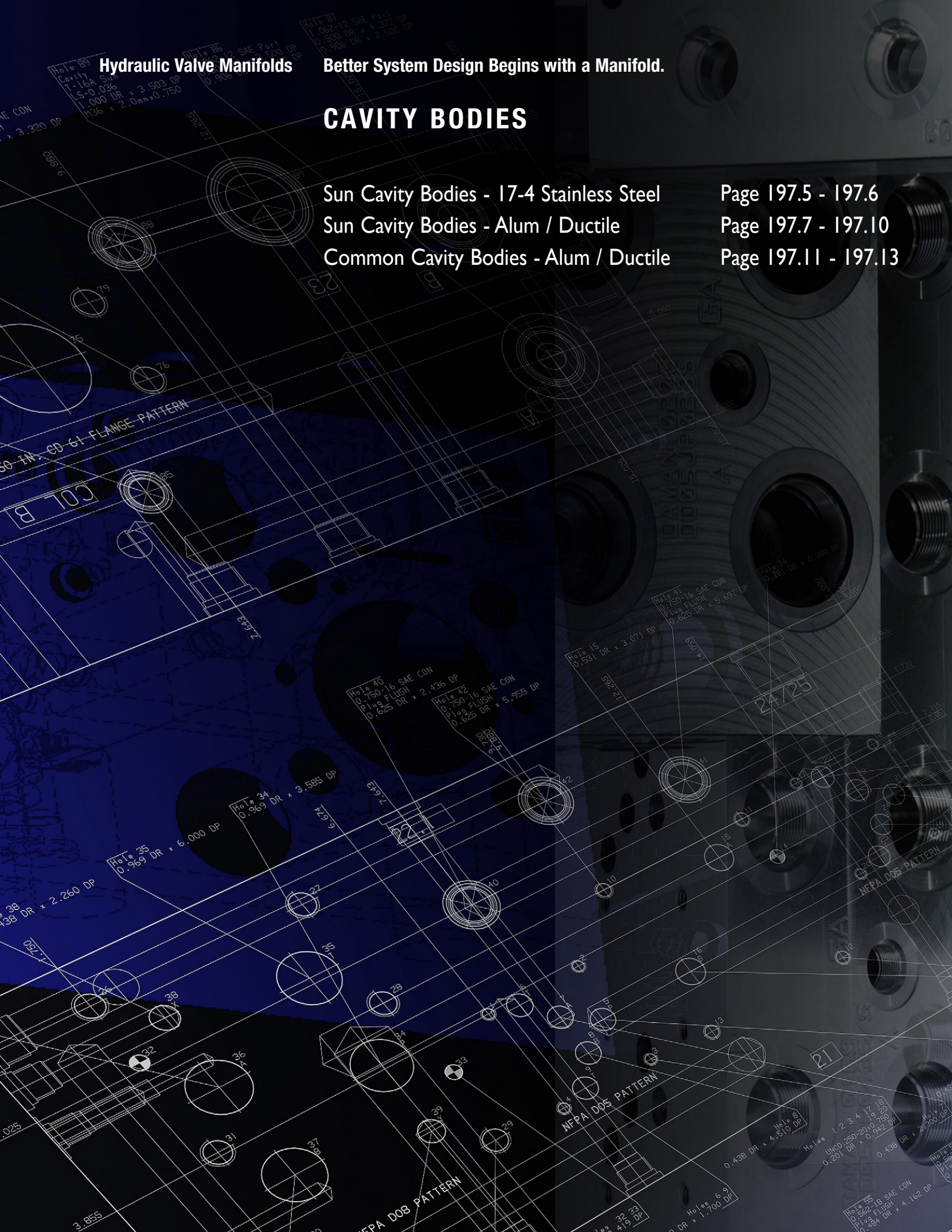
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Sun Cavity Bodies - Alum / Ductile

Page 197.7 - 197.10

Common Cavity Bodies - Alum / Ductile

Page 197.11 - 197.13



Cavity Bodies

The following pages represent our product offering for cavity bodies for screw-in cartridge valves.

Our comprehensive, new cavity body line is comprised of 34 different cavity sizes which include six common cavity sizes from C-8-2 through C-16-3 along with 28 of the most popular sizes from Sun, each having the following five port types available:

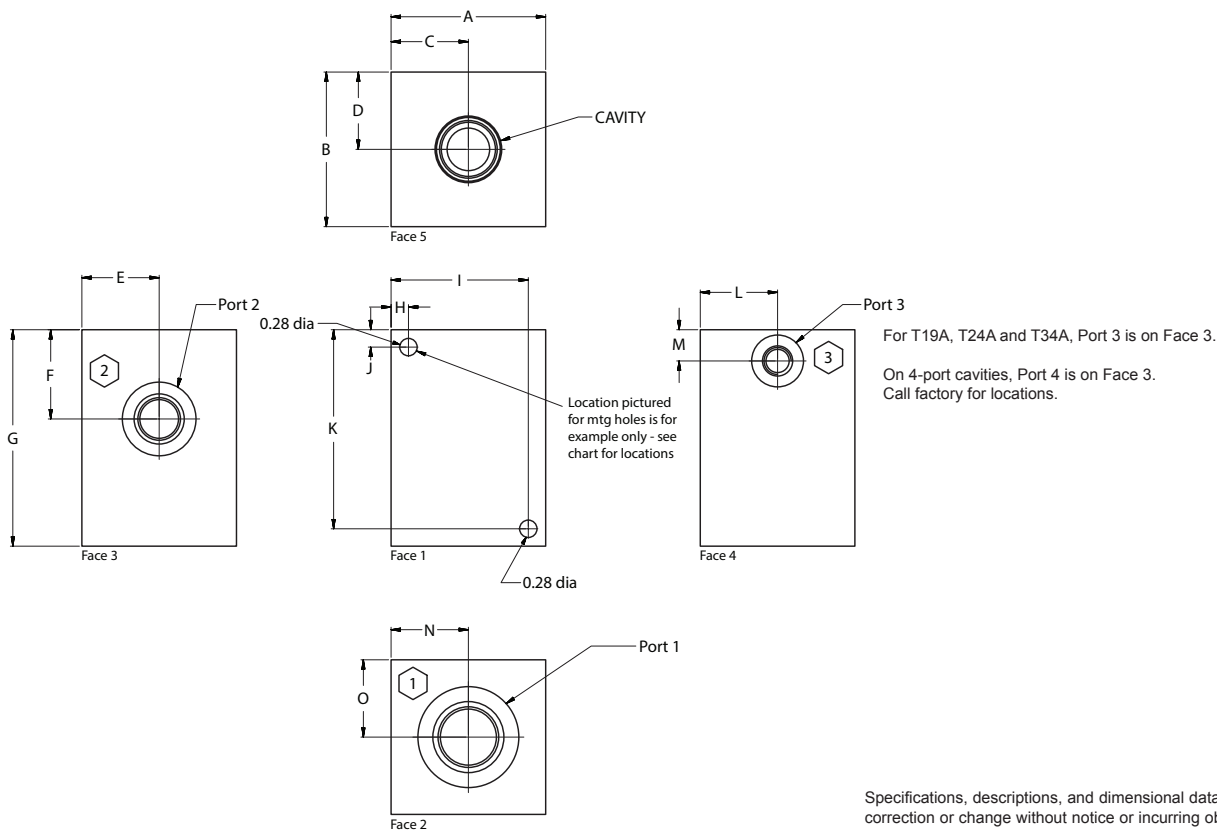
SAE
NPTF
BSPP
BSPT
ISO 6149

- Three to five different port size options will be offered for each port type.
- Our entire line can be manufactured in aluminum or ductile iron, with or without gauge ports, with or without surface coatings — clear or black anodize for aluminum and electroless nickel for ductile.
- Each part will have two through mounting holes and ship with two bolts.
- For our customer's convenience, our new cavity bodies can face left or right while still being able to read the part number when mounted.
- The Sun stainless bodies are made from 17-4 H1150 stainless providing corrosion resistance similar to 304 stainless, along with very high tensile strength allowing a 5000 psi pressure rating.
- We also sell Sun valves. See p. 227 for our stocked selection, or call for other part numbers.
- Dimensioning charts are at the end of each section.

Return to this section regularly as we expand our cavity body offerings.



Sun Cavity Bodies - 17-4 H1150 Stainless Steel



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		Sun Cavity Size		Product Type		Port Size		Port Threads		Daman can sell Sun valves. See page 227 for stocked valves, or consult factory for price and delivery of valves not shown.																																														
<table><tr><th colspan="2">Material</th></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></table>		Material		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><tr><th colspan="3">Sun Cavity Size</th></tr><tr><td>T2A</td><td>T16A</td><td>T23A</td></tr><tr><td>T3A</td><td>T17A</td><td>T24A</td></tr><tr><td>T5A</td><td>T18A</td><td>T32A</td></tr><tr><td>T10A</td><td>T19A</td><td>T34A</td></tr><tr><td>T11A</td><td>T21A</td><td>T162A</td></tr><tr><td>T13A</td><td>T22A</td><td>T163A</td></tr></table>		Sun Cavity Size			T2A	T16A	T23A	T3A	T17A	T24A	T5A	T18A	T32A	T10A	T19A	T34A	T11A	T21A	T162A	T13A	T22A	T163A	<table><tr><th colspan="2">Size of Port 1</th></tr><tr><td>6</td><td>3/8 inch (-6) Hose/Fitting size</td></tr><tr><td>8</td><td>1/2 inch (-8) Hose/Fitting size</td></tr><tr><td>10</td><td>5/8 inch (-10) Hose/Fitting size</td></tr><tr><td>12</td><td>3/4 inch (-12) Hose/Fitting size</td></tr><tr><td>16</td><td>1 inch (-16) Hose/Fitting size</td></tr><tr><td>20</td><td>1-1/4 inch (-20) Hose/Fitting size</td></tr></table>		Size of Port 1		6	3/8 inch (-6) Hose/Fitting size	8	1/2 inch (-8) Hose/Fitting size	10	5/8 inch (-10) Hose/Fitting size	12	3/4 inch (-12) Hose/Fitting size	16	1 inch (-16) Hose/Fitting size	20	1-1/4 inch (-20) Hose/Fitting size	<table><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; SAE 1926</td></tr></table>		Port Threads		P	NPTF ANSI B1.20.3	S	SAE ISO 11926; SAE 1926	Note: Pipe ports in stainless can gall.	
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*Mounting hardware not supplied for stainless steel products. All SS products are passivated.		<table><tr><th colspan="2">Product Type</th></tr><tr><td>CB</td><td>Cavity Bodies</td></tr></table>		Product Type		CB	Cavity Bodies	Consult chart for port size availability with each cavity size, and for additional port sizes.																																																
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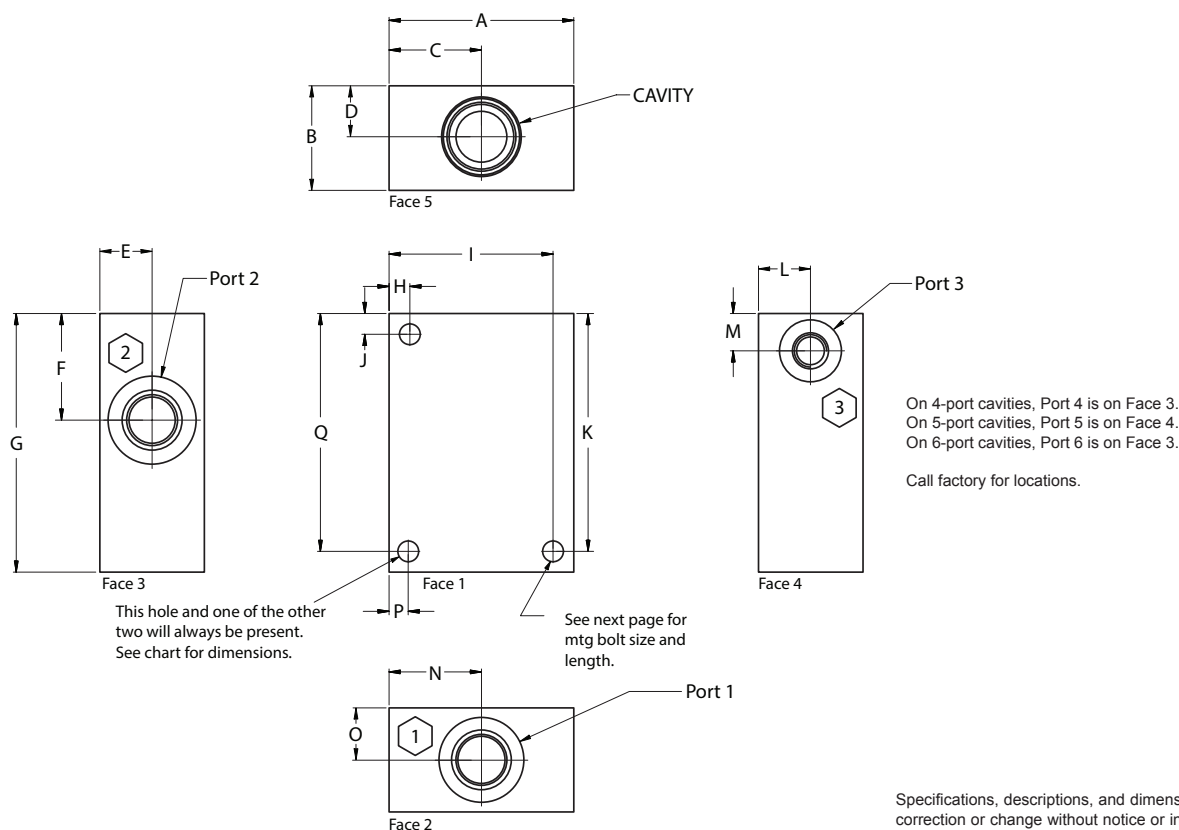


Sun Cavity Bodies - 17-4 H1150 Stainless Steel

Part Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Port 1	Port 2	Port 3	Port 4
ST2ACB6P	2.50	2.50	1.31	1.25	1.25	1.44	3.50	0.28	2.22	0.28	3.22	1.25	0.51	1.31	1.25	3/8	3/8	1/8	-
ST2ACB8S	2.50	2.50	1.31	1.25	1.25	1.44	3.50	0.28	2.22	0.28	3.22	1.25	0.51	1.31	1.25	-08	-08	-04	-
ST3ACB12P	3.00	3.00	1.56	1.50	1.50	1.01	3.50	2.72	0.28	0.28	3.22	-	-	1.56	1.50	3/4	3/4	-	-
ST3ACB16S	3.00	3.00	1.56	1.50	1.50	1.01	3.50	2.72	0.28	0.28	3.22	-	-	1.56	1.50	-16	-16	-	-
ST5ACB12P	3.00	3.00	1.56	1.50	1.50	0.88	3.00	2.72	0.28	0.28	2.72	-	-	1.56	1.50	3/4	3/4	-	-
ST5ACB12S	3.00	3.00	1.56	1.50	1.50	0.88	3.00	2.72	0.28	0.28	2.72	-	-	1.56	1.50	-12	-12	-	-
ST10ACB12P	2.50	2.50	1.44	1.25	1.25	0.85	3.00	2.22	0.28	0.28	2.72	-	-	1.44	1.25	3/4	3/4	-	-
ST10ACB12S	2.50	2.50	1.44	1.25	1.25	0.85	3.00	2.22	0.28	0.28	2.72	-	-	1.44	1.25	-12	-12	-	-
ST11ACB6P	2.50	2.50	1.34	1.25	1.25	1.41	3.25	0.28	2.22	0.28	2.97	1.25	0.49	1.34	1.25	3/8	3/8	1/4	-
ST11ACB10S	2.50	2.50	1.34	1.25	1.25	1.41	3.25	0.28	2.22	0.28	2.97	1.25	0.49	1.34	1.25	-10	-10	-6	-
ST13ACB6P	2.50	2.50	1.25	1.25	1.25	0.76	2.50	2.22	0.28	0.28	2.22	-	-	1.25	1.25	3/8	3/8	-	-
ST13ACB8S	2.50	2.50	1.25	1.25	1.25	0.76	2.50	2.22	0.28	0.28	2.22	-	-	1.25	1.25	-08	-08	-	-
ST16ACB16P	3.50	3.50	1.75	1.75	1.75	1.35	4.00	3.22	0.28	0.28	3.72	-	-	1.75	1.75	1	1	-	-
ST16ACB16S	3.50	3.50	1.75	1.75	1.75	1.35	4.00	3.22	0.28	0.28	3.72	-	-	1.75	1.75	-16	-16	-	-
ST17ACB12P	3.50	3.50	1.88	1.75	1.75	1.91	4.25	0.28	3.22	0.28	3.97	1.75	0.60	1.88	1.75	3/4	3/4	3/8	-
ST17ACB16S	3.50	3.50	1.88	1.75	1.75	1.91	4.25	0.28	3.22	0.28	3.97	1.75	0.60	1.88	1.75	-16	-16	-08	-
ST18ACB20P	3.50	3.50	2.00	1.75	1.75	1.72	4.75	0.28	3.22	0.28	4.47	-	-	2.00	1.75	1 1/4	1 1/4	-	-
ST18ACB20S	3.50	3.50	2.00	1.75	1.75	1.72	4.75	0.28	3.22	0.28	4.47	-	-	2.00	1.75	-20	-20	-	-
ST19ACB16P	3.50	3.50	1.97	1.75	1.75	2.54	5.25	0.28	3.22	1.44	4.97	1.75	0.72	1.97	1.75	1	1	3/8	-
ST19ACB16S	3.50	3.50	1.97	1.75	1.75	2.54	5.25	0.28	3.22	1.44	4.97	1.75	0.72	1.97	1.75	-16	-16	-08	-
ST21ACB6P	2.50	2.50	1.25	1.25	1.25	1.91	3.63	2.22	0.28	0.28	3.34	1.25	1.01	1.25	1.25	3/8	3/8	1/4	1/8
ST21ACB8S	2.50	2.50	1.25	1.25	1.25	1.91	3.63	2.22	0.28	0.28	3.34	1.25	1.01	1.25	1.25	-08	-08	-04	-04
ST22ACB12P	3.00	3.00	1.63	1.50	1.5	2.04	4.13	2.72	0.28	0.28	3.84	1.50	1.10	1.63	1.50	3/4	3/4	1/4	1/4
ST22ACB12S	3.00	3.00	1.63	1.50	1.5	2.04	4.13	2.72	0.28	0.28	3.84	1.50	1.10	1.63	1.50	-12	-12	-04	-04
ST23ACB12P	3.50	3.50	1.84	1.75	1.75	2.63	5.00	3.22	0.28	0.28	4.72	1.75	1.35	1.84	1.75	3/4	3/4	3/8	3/8
ST23ACB16S	3.50	3.50	1.84	1.75	1.75	2.63	5.00	3.22	0.28	0.28	4.72	1.75	1.35	1.84	1.75	-12	-12	-08	-06
ST24ACB16P	3.50	3.50	1.97	1.75	1.75	3.38	6.00	0.28	3.22	2.38	5.72	2.78	1.60	1.97	1.75	1	1	1/2	3/8
ST24ACB16S	3.50	3.50	1.97	1.75	1.75	3.38	6.00	0.28	3.22	2.38	5.72	2.78	1.60	1.97	1.75	-16	-16	-08	-06
ST32ACB12P	3.00	3.00	1.56	1.50	1.50	2.97	5.50	2.72	0.28	0.28	5.22	1.50	2.02	1.56	1.5	3/4	1/2	3/8	3/4
ST32ACB12S	3.00	3.00	1.56	1.50	1.50	2.97	5.50	2.72	0.28	0.28	5.22	1.50	2.02	1.56	1.5	-12	-08	-08	-12
ST34ACB16P	3.50	3.50	2.06	1.75	0.89	4.54	8.00	0.28	3.22	0.28	7.72	2.63	3.04	2.06	1.75	1	3/4	3/4	1
ST34ACB16S	3.50	3.50	2.06	1.75	0.89	4.54	8.00	0.28	3.22	0.28	7.72	2.63	3.04	2.06	1.75	-16	-12	-12	-16
ST162ACB6P	1.75	1.75	1.16	0.88	0.88	0.68	2.25	0.28	-	1.97	-	-	-	1.13	0.88	3/8	3/8	-	-
ST162ACB8S	1.75	1.75	1.16	0.88	0.88	0.68	2.25	0.28	-	1.97	-	-	-	1.13	0.88	-08	-08	-	-
ST163ACB6P	2.50	2.50	1.25	1.25	1.25	1.26	3.00	0.28	2.22	0.28	2.72	1.25	0.43	1.25	1.25	3/8	3/8	1/4	-
ST163ACB8S	2.50	2.50	1.25	1.25	1.25	1.26	3.00	0.28	2.22	0.28	2.72	1.25	0.43	1.25	1.25	-08	-08	-04	-

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Sun Cavity Bodies - Aluminum & Ductile Iron



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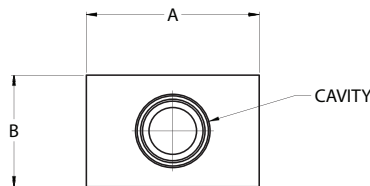
Ordering Information

Daman can sell Sun valves. See page 227 for stocked valves, or consult factory for price and delivery of valves not shown.

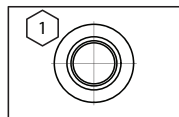
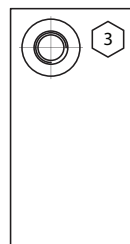
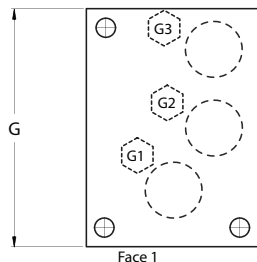
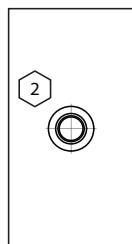
For coating options see pages 245-246.

Material		Sun Cavity Size		Product Type		Port Size		Port Threads		/		Options	
Material		Sun Cavity Size				Size of Port 1 & 2				Options			
A	Aluminum - 6061-T6 3000† psi • 20.7 MPa	T2A	T11A	T21A	T33A	T63A	4	1/4 inch (-4) Hose/Fitting size (M) port threads = M10 x 1.0		See next page for available options and ordering codes.			
D	Ductile Iron - D4512 5000† psi • 34.5 MPa	T3A	T13A	T22A	T52A	T64A	6	3/8 inch (-6) Hose/Fitting size (M) port threads = M14 x 1.5					
† Working pressure should be considered in accordance with ISO 4413 to determine appropriate material type.		T5A	T16A	T23A	T53A	T162A	8	1/2 inch (-8) Hose/Fitting size (M) port threads = M18 x 1.5					
		T8A	T17A	T24A	T54A	T163A	12	3/4 inch (-12) Hose/Fitting size (M) port threads = M27 x 2.0					
		T9A	T18A	T31A	T61A	---	16	1 inch (-16) Hose/Fitting size (M) port threads = M33 x 2.0					
		T10A	T19A	T32A	T62A	---	20	1-1/4 inch (-20) Hose/Fitting size (M) port threads = M42 x 2.0		Port Threads			
						Consult chart for port size availability with each cavity size, and for additional port sizes.				P NPTF ANSI B1.20.3			
										S SAE ISO 11926; SAE 1926			
										B BSPP ISO 1179			
										M ISO ISO 6149			
										T BSPT ISO 7			
						Product Type							
						CB Cavity Bodies							

Options - Sun Cavity Bodies - Alum. & Duct. Iron



A, B and G dimensions may change with addition of gauges. Consult factory for details.



Mounting bolt size / length

10-24 THD	Len.	0.250-20 THD	Len.	0.312-18 THD	Len.
*T3ACB8[P,S]	1.75	*T2ACB8[P,S]	2.00	*T18ACB20[P,S]	3.00
*T3ACB12[P,S]	2.00	*T2ACB12[P,S]	2.50	*T19ACB20[P,S]	3.50
*T5ACB8[P,S]	1.75	*T16ACB20[P,S]	3.00	*T24ACB20[P,S]	3.50
*T5ACB12[P,S]	2.00	*T17ACB20[P,S]	3.00	*T33ACB16[P,S]	2.75
*T8ACB6[P,S]	1.75	*T22ACB12[P,S]	2.50	*T33ACB20[P,S]	3.50
*T9ACB6[P,S]	1.75	*T23ACB20[P,S]	3.00	*T53ACB16[P,S]	3.50
*T10ACB6[P,S]	1.50	*T32ACB12[P,S]	2.50	*T54ACB20[P,S]	4.50
*T10ACB12[P,S]	2.00	*T52ACB12[P,S]	2.50	*T63ACB16[P,S]	2.75
*T11ACB8[P,S]	1.50	*T62ACB12[P,S]	2.50	*T63ACB20[P,S]	3.50
*T13ACB6[P,S]	1.50			*T64ACB20[P,S]	3.50
*T13ACB12[P,S]	2.00				
*T21ACB8[P,S]	1.50				
*T31ACB8[P,S]	1.50				
*T61ACB8[P,S]	1.50				
*T162ACB6[P,S]	1.50				
*T162ACB8[P,S]	1.50				
*T163ACB6[P,S]	1.50				
*T163ACB8[P,S]	1.50				
M5 THD	Len.	M6 THD	Len.	M8 THD	Len.
*T3ACB8[B,M,T]	45	*T2ACB8[B,M,T]	45	*T18ACB20[B,M,T]	80
*T3ACB12[B,M,T]	50	*T2ACB12[B,M,T]	60	*T19ACB20[B,M,T]	90
*T5ACB8[B,M,T]	45	*T16ACB20[B,M,T]	70	*T24ACB20[B,M,T]	90
*T5ACB12[B,M,T]	50	*T17ACB20[B,M,T]	70	*T33ACB16[B,M,T]	70
*T8ACB6[B,M,T]	45	*T22ACB12[B,M,T]	60	*T33ACB20[B,M,T]	90
*T9ACB6[B,M,T]	45	*T23ACB20[B,M,T]	70	*T53ACB16[B,M,T]	90
*T10ACB6[B,M,T]	40	*T32ACB12[B,M,T]	60	*T54ACB20[B,M,T]	120
*T10ACB12[B,M,T]	55	*T52ACB12[B,M,T]	60	*T63ACB16[B,M,T]	70
*T11ACB8[B,M,T]	40	*T62ACB12[B,M,T]	60	*T63ACB20[B,M,T]	90
*T13ACB6[B,M,T]	40			*T64ACB20[B,M,T]	90
*T13ACB12[B,M,T]	55				
*T21ACB8[B,M,T]	40				
*T31ACB8[B,M,T]	40				
*T61ACB8[B,M,T]	40				
*T162ACB6[B,M,T]	40				
*T162ACB8[B,M,T]	40				
*T163ACB6[B,M,T]	40				
*T163ACB8[B,M,T]	40				

Ordering Information

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/

Gauge Port

Gauge Port

G

Gauge Port

0.250 NPTF (P option)

0.250 BSPP (B option)

0.250 BSPT (T option)

M10 x 1.0 (M option)

-6 SAE (S option)

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Sun Cavity Bodies - Aluminum & Ductile Iron

Part Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6
T2ACB4	3.00	1.50	1.63	0.75	0.75	1.44	3.25	-	2.72	-	2.97	0.75	0.51	1.63	0.75	0.28	2.97	1/4	1/4	1/4	-	-	-
T2ACB6	3.00	1.50	1.63	0.75	0.75	1.44	3.25	-	2.72	-	2.97	0.75	0.51	1.63	0.75	0.28	2.97	3/8	3/8	3/8	-	-	-
T2ACB8	3.00	1.50	1.63	0.75	0.75	1.44	3.25	-	2.72	-	2.97	0.75	0.51	1.63	0.75	0.28	2.97	1/2	1/2	3/8	-	-	-
T2ACB12	3.00	2.00	1.63	1.00	1.00	1.44	3.25	-	2.72	-	2.97	1.00	0.51	1.63	1.00	0.28	2.97	3/4	3/4	3/8	-	-	-
T3ACB4	2.00	1.50	1.16	0.75	0.75	1.09	3.00	0.22	-	0.22	-	-	-	1.16	0.75	0.22	2.78	1/4	1/4	-	-	-	-
T3ACB6	2.00	1.50	1.16	0.75	0.75	1.09	3.00	0.22	-	0.22	-	-	-	1.16	0.75	0.22	2.78	3/8	3/8	-	-	-	-
T3ACB8	2.00	1.50	1.16	0.75	0.75	1.09	3.00	0.22	-	0.22	-	-	-	1.16	0.75	0.22	2.78	1/2	1/2	-	-	-	-
T3ACB12	2.25	1.75	1.41	0.88	0.88	1.07	3.00	0.22	-	0.22	-	-	-	1.41	0.88	0.22	2.78	3/4	3/4	-	-	-	-
T5ACB4	2.25	1.50	1.25	0.75	0.75	0.88	3.00	-	2.03	-	2.78	-	-	1.25	0.75	0.22	2.78	1/4	1/4	-	-	-	-
T5ACB6	2.25	1.50	1.25	0.75	0.75	0.88	3.00	-	2.03	-	2.78	-	-	1.25	0.75	0.22	2.78	3/8	3/8	-	-	-	-
T5ACB8	2.25	1.50	1.25	0.75	0.75	0.88	3.00	-	2.03	-	2.78	-	-	1.25	0.75	0.22	2.78	1/2	1/2	-	-	-	-
T5ACB12	2.50	1.75	1.56	0.88	0.88	0.88	3.00	-	2.28	-	2.78	-	-	1.47	0.88	0.22	2.78	3/4	3/4	-	-	-	-
T8ACB4	2.00	1.50	1.16	0.75	0.75	0.52	1.75	-	1.78	-	1.53	-	-	1.16	0.75	0.22	1.53	1/4	1/4	-	-	-	-
T8ACB6	2.00	1.50	1.16	0.75	0.75	0.52	1.75	-	1.78	-	1.53	-	-	1.16	0.75	0.22	1.53	3/8	3/8	-	-	-	-
T9ACB4	2.50	1.50	1.25	0.75	0.75	0.90	2.00	-	2.28	-	1.78	0.75	0.53	1.25	0.75	0.22	1.78	1/4	1/4	1/4	-	-	-
T9ACB6	2.50	1.50	1.25	0.75	0.75	0.90	2.00	-	2.28	-	1.78	0.75	0.53	1.25	0.75	0.22	1.78	3/8	3/8	1/4	-	-	-
T10ACB4	1.63	1.25	0.94	0.63	0.63	0.96	2.50	0.22	-	0.22	-	-	-	0.94	0.63	0.22	2.28	1/4	1/4	-	-	-	-
T10ACB6	1.63	1.25	0.94	0.63	0.63	0.96	2.50	0.22	-	0.22	-	-	-	0.94	0.63	0.22	2.28	3/8	3/8	-	-	-	-
T10ACB8	2.25	1.75	1.44	0.88	0.88	0.85	3.00	-	2.03	-	2.00	-	-	1.25	0.88	0.22	2.00	1/2	1/2	-	-	-	-
T10ACB12	2.25	1.75	1.44	0.88	0.88	0.85	3.00	-	2.03	-	2.00	-	-	1.25	0.88	0.22	2.00	3/4	3/4	-	-	-	-
T11ACB4	2.50	1.25	1.25	0.63	0.63	1.41	3.00	-	2.28	-	2.78	0.63	0.47	1.25	0.63	0.22	2.78	1/4	1/4	1/4	-	-	-
T11ACB6	2.50	1.25	1.25	0.63	0.63	1.41	3.00	-	2.28	-	2.78	0.63	0.47	1.25	0.63	0.22	2.78	3/8	3/8	3/8	-	-	-
T11ACB8	2.50	1.25	1.25	0.63	0.63	1.41	3.00	-	2.28	-	2.78	0.63	0.47	1.25	0.63	0.22	2.78	1/2	1/2	3/8	-	-	-
T13ACB4	1.75	1.25	0.94	0.63	0.63	0.78	2.25	-	1.53	-	2.03	-	-	0.94	0.63	0.22	2.03	1/4	1/4	-	-	-	-
T13ACB6	1.75	1.25	0.94	0.63	0.63	0.78	2.25	-	1.53	-	2.03	-	-	0.94	0.63	0.22	2.03	3/8	3/8	-	-	-	-
T13ACB8	2.50	1.75	1.63	0.88	0.88	0.85	3.00	-	2.28	-	2.78	-	-	1.44	0.88	0.22	2.78	1/2	1/2	-	-	-	-
T13ACB12	2.50	1.75	1.63	0.88	0.88	0.85	3.00	-	2.28	-	2.78	-	-	1.44	0.88	0.22	2.78	3/4	3/4	-	-	-	-
T16ACB12	3.00	2.50	1.94	1.25	1.25	1.44	4.00	0.28	-	0.28	-	-	-	1.75	1.25	0.28	3.72	3/4	3/4	-	-	-	-
T16ACB16	3.00	2.50	1.94	1.25	1.25	1.44	4.00	0.28	-	0.28	-	-	-	1.75	1.25	0.28	3.72	1	1	-	-	-	-
T16ACB20	3.00	2.50	1.94	1.25	1.25	1.44	4.00	0.28	-	0.28	-	-	-	1.75	1.25	0.28	3.72	1 1/4	1 1/4	-	-	-	-
T17ACB12	4.00	2.50	2.00	1.25	1.25	1.91	4.25	-	3.72	-	3.97	1.25	0.60	2.00	1.25	0.28	3.97	3/4	3/4	1/2	-	-	-
T17ACB16	4.00	2.50	2.00	1.25	1.25	1.91	4.25	-	3.72	-	3.97	1.25	0.60	2.00	1.25	0.28	3.97	1	1	1/2	-	-	-
T17ACB20	4.00	2.50	2.00	1.25	1.25	1.91	4.25	-	3.72	-	3.97	1.25	0.60	2.00	1.25	0.28	3.97	1 1/4	1 1/4	1/2	-	-	-
T18ACB12	3.50	2.75	2.06	1.38	1.38	1.73	4.50	0.34	-	0.34	-	-	-	2.06	1.38	0.34	4.16	3/4	3/4	-	-	-	-
T18ACB16	3.50	2.75	2.06	1.38	1.38	1.73	4.50	0.34	-	0.34	-	-	-	2.06	1.38	0.34	4.16	1	1	-	-	-	-
T18ACB20	3.50	2.75	2.06	1.38	1.38	1.73	4.50	0.34	-	0.34	-	-	-	2.06	1.38	0.34	4.16	1 1/4	1 1/4	-	-	-	-
T19ACB16	4.38	3.00	2.22	1.50	1.50	2.54	5.00	-	4.03	-	4.66	1.50	0.75	2.22	1.50	0.34	4.66	1	1	3/4	-	-	-
T19ACB20	4.38	3.00	2.22	1.50	1.50	2.54	5.00	-	4.03	-	4.66	1.50	0.75	2.22	1.50	0.34	4.66	1 1/4	1 1/4	3/4	-	-	-
T21ACB4	2.50	1.25	1.25	0.63	0.63	1.98	3.56	-	2.28	-	3.34	0.63	1.07	1.25	0.63	0.22	3.34	1/4	1/4	1/4	1/4	-	-
T21ACB6	2.50	1.25	1.25	0.63	0.63	1.98	3.56	-	2.28	-	3.34	0.63	1.07	1.25	0.63	0.22	3.34	3/8	3/8	3/8	1/4	-	-
T21ACB8	2.50	1.25	1.25	0.63	0.63	1.98	3.56	-	2.28	-	3.34	0.63	1.07	1.25	0.63	0.22	3.34	1/2	1/2	3/8	1/4	-	-
T22ACB6	3.50	2.00	1.75	1.00	1.00	2.04	3.75	-	3.22	-	3.47	1.00	1.10	1.75	1.00	0.28	3.47	3/8	3/8	3/8	3/8	-	-
T22ACB8	3.50	2.00	1.75	1.00	1.00	2.04	3.75	-	3.22	-	3.47	1.00	1.10	1.75	1.00	0.28	3.47	1/2	1/2	3/8	3/8	-	-
T22ACB12	3.50	2.00	1.75	1.00	1.00	2.04	3.75	-	3.22	-	3.47	1.00	1.10	1.75	1.00	0.28	3.47	3/4	3/4	3/8	3/8	-	-
T23ACB12	4.00	2.50	2.22	1.25	1.25	2.63	4.75	-	3.72	-	4.47	1.25	1.35	2.22	1.25	0.28	4.47	3/4	3/4	1/2	3/8	-	-
T23ACB16	4.00	2.50	2.22	1.25	1.25	2.63	4.75	-	3.72	-	4.47	1.25	1.35	2.22	1.25	0.28	4.47	1	1	1/2	3/8	-	-
T23ACB20	4.00	2.50	2.22	1.25	1.25	2.63	4.75	-	3.72	-	4.47	1.25	1.35	2.22	1.25	0.28	4.47	1 1/4	1 1/4	1/2	3/8	-	-
T24ACB16	5.00	3.00	2.50	1.50	1.50	3.38	5.87	-	4.66	-	5.53	1.50	1.60	2.50	1.50	0.34	5.53	1	1	3/4	1/2	-	-
T24ACB20	5.00	3.00	2.50	1.50	1.50	3.38	5.87	-	4.66	-	5.53	1.50	1.60	2.50	1.50	0.34	5.53	1 1/4	1 1/4	3/4	1/2	-	-

Chart continued on next page

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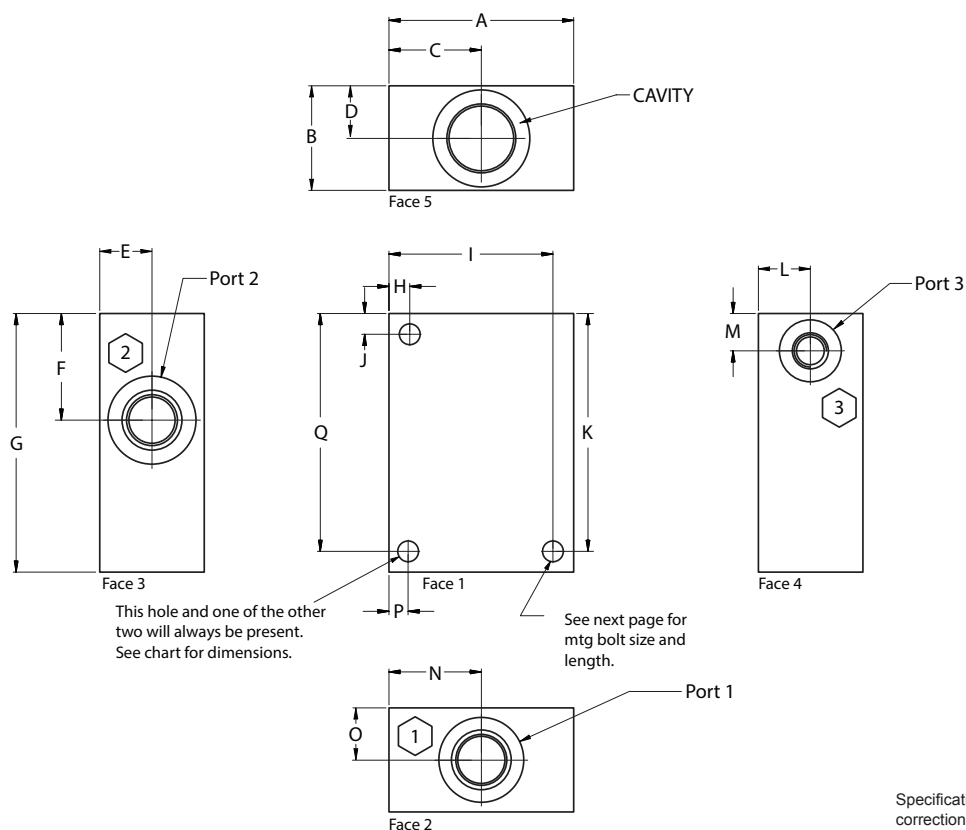


Sun Cavity Bodies - Aluminum & Ductile Iron

Part Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6
T31ACB4	2.75	1.25	1.38	0.63	0.63	2.72	4.75	-	2.53	-	4.53	0.63	1.82	1.38	0.63	0.22	4.53	1/4	1/4	1/4	1/4	-	-
T31ACB6	2.75	1.25	1.38	0.63	0.63	2.72	4.75	-	2.53	-	4.53	0.63	1.82	1.38	0.63	0.22	4.53	3/8	3/8	3/8	3/8	-	-
T31ACB8	2.75	1.25	1.38	0.63	0.63	2.72	4.75	-	2.53	-	4.53	0.63	1.82	1.38	0.63	0.22	4.53	1/2	1/2	1/2	1/2	-	-
T32ACB6	3.50	2.00	1.75	1.00	1.00	2.98	5.25	-	3.22	-	4.97	1.00	2.02	1.75	1.00	0.28	4.97	3/8	3/8	3/8	3/8	-	-
T32ACB8	3.50	2.00	1.75	1.00	1.00	2.98	5.25	-	3.22	-	4.97	1.00	2.02	1.75	1.00	0.28	4.97	1/2	1/2	1/2	1/2	-	-
T32ACB12	3.50	2.00	1.75	1.00	1.00	2.98	5.25	-	3.22	-	4.97	1.00	2.02	1.75	1.00	0.28	4.97	3/4	3/4	3/4	3/4	-	-
T33ACB12	4.00	2.25	2.00	1.13	1.13	3.71	6.38	-	3.66	-	6.03	1.13	2.53	2.00	1.13	0.34	6.03	3/4	3/4	3/4	3/4	-	-
T33ACB16	4.00	2.25	2.00	1.13	1.13	3.71	6.38	-	3.66	-	6.03	1.13	2.53	2.00	1.13	0.34	6.03	1	1	1	1	-	-
T33ACB20	4.00	3.00	2.00	1.50	1.50	3.71	6.50	-	3.66	-	6.16	1.50	2.53	2.00	1.50	0.34	6.16	1 1/4	1 1/4	1 1/4	1 1/4	-	-
T52ACB6	3.50	2.00	1.75	1.00	1.00	4.40	6.25	-	3.22	-	5.97	1.00	3.43	1.75	1.00	0.28	5.97	3/8	3/8	3/8	3/8	3/8	3/8
T52ACB8	3.50	2.00	1.75	1.00	1.00	4.40	6.25	-	3.22	-	5.97	1.00	3.43	1.75	1.00	0.28	5.97	1/2	1/2	1/2	1/2	1/2	3/8
T52ACB12	3.50	2.00	1.75	1.00	1.00	4.40	6.25	-	3.22	-	5.97	1.00	3.43	1.75	1.00	0.28	5.97	3/4	3/4	3/4	3/4	3/4	3/8
T53ACB12	4.00	3.00	2.00	1.50	1.50	5.52	7.63	-	3.66	-	7.28	1.50	4.35	2.00	1.50	0.34	7.28	3/4	3/4	3/4	3/4	3/4	1/2
T53ACB16	4.00	3.00	2.00	1.50	1.50	5.52	7.63	-	3.66	-	7.28	1.50	4.35	2.00	1.50	0.34	7.28	1	1	1	1	1	1/2
T54ACB20	5.00	4.00	2.50	2.00	2.00	7.22	10.00	-	4.66	-	9.66	2.00	5.66	2.50	2.00	0.34	9.66	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	3/4
T61ACB4	2.75	1.25	1.38	0.63	0.63	3.94	5.62	-	2.53	-	5.40	0.63	3.03	1.38	0.63	0.22	5.40	1/4	1/4	1/4	1/4	1/4	1/4
T61ACB6	2.75	1.25	1.38	0.63	0.63	3.94	5.62	-	2.53	-	5.40	0.63	3.03	1.38	0.63	0.22	5.40	3/8	3/8	3/8	3/8	3/8	1/4
T61ACB8	2.75	1.25	1.38	0.63	0.63	3.94	5.62	-	2.53	-	5.40	0.63	3.03	1.38	0.63	0.22	5.40	1/2	1/2	1/2	1/2	3/8	1/4
T62ACB6	3.50	2.00	1.75	1.00	1.00	4.33	6.25	-	3.22	-	5.97	1.00	3.38	1.75	1.00	0.28	5.97	3/8	3/8	3/8	3/8	3/8	3/8
T62ACB8	3.50	2.00	1.75	1.00	1.00	4.33	6.25	-	3.22	-	5.97	1.00	3.38	1.75	1.00	0.28	5.97	1/2	1/2	1/2	1/2	3/8	3/8
T62ACB12	3.50	2.00	1.75	1.00	1.00	4.33	6.25	-	3.22	-	5.97	1.00	3.38	1.75	1.00	0.28	5.97	3/4	3/4	3/4	3/4	3/8	3/8
T63ACB12	4.00	2.25	2.00	1.13	1.13	5.30	7.75	-	3.66	-	7.41	1.13	4.13	2.00	1.13	0.34	7.41	3/4	3/4	3/4	3/4	1/2	3/8
T63ACB16	4.00	2.25	2.00	1.13	1.13	5.30	7.75	-	3.66	-	7.41	1.13	4.13	2.00	1.13	0.34	7.41	1	1	1	1	1/2	3/8
T63ACB20	4.50	3.00	2.25	1.50	1.50	5.30	8.00	-	4.16	-	7.66	1.50	4.13	2.25	1.50	0.34	7.66	1 1/4	1 1/4	1 1/4	1 1/4	1/2	3/8
T64ACB16	5.00	3.00	2.50	1.50	1.50	6.51	9.62	-	4.66	-	9.28	1.50	5.01	2.50	1.50	0.34	9.28	1	1	1	1	3/4	1/2
T64ACB20	5.00	3.00	2.50	1.50	1.50	6.51	9.62	-	4.66	-	9.28	1.50	5.01	2.50	1.50	0.34	9.28	1 1/4	1 1/4	1 1/4	1 1/4	3/4	1/2
T162ACB4	1.88	1.25	1.06	0.63	0.63	0.67	2.00	-	1.66	-	1.78	-	-	1.06	0.63	0.22	1.78	1/4	1/4	-	-	-	-
T162ACB6	1.88	1.25	1.06	0.63	0.63	0.67	2.00	-	1.66	-	1.78	-	-	1.06	0.63	0.22	1.78	3/8	3/8	-	-	-	-
T162ACB8	2.00	1.25	1.23	0.63	0.63	0.67	2.25	-	1.78	-	1.22	-	-	1.23	0.63	0.22	2.03	1/2	1/2	-	-	-	-
T163ACB4	2.25	1.25	1.10	0.63	0.63	1.28	2.75	-	2.03	-	2.53	0.63	0.46	1.10	0.63	0.22	2.53	1/4	1/4	1/4	-	-	-
T163ACB6	2.25	1.25	1.10	0.63	0.63	1.28	2.75	-	2.03	-	2.53	0.63	0.46	1.10	0.63	0.22	2.53	3/8	3/8	3/8	-	-	-
T163ACB8	2.75	1.25	1.38	0.63	0.63	1.28	3.00	-	2.53	-	2.78	0.63	0.46	1.38	0.63	0.22	2.78	1/2	1/2	3/8	-	-	-

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Common Cavity Bodies - Aluminum & Ductile Iron



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Ordering Information

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

Material	Common Cavity Size	Product Type	Port Size	Port Threads	/	Options
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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.

Common Cavity Size	
C082	C-08-2
C083	C-08-3
C102	C-10-2
C103	C-10-3
C162	C-16-2
C163	C-16-3

Product Type	
CB	Cavity Bodies

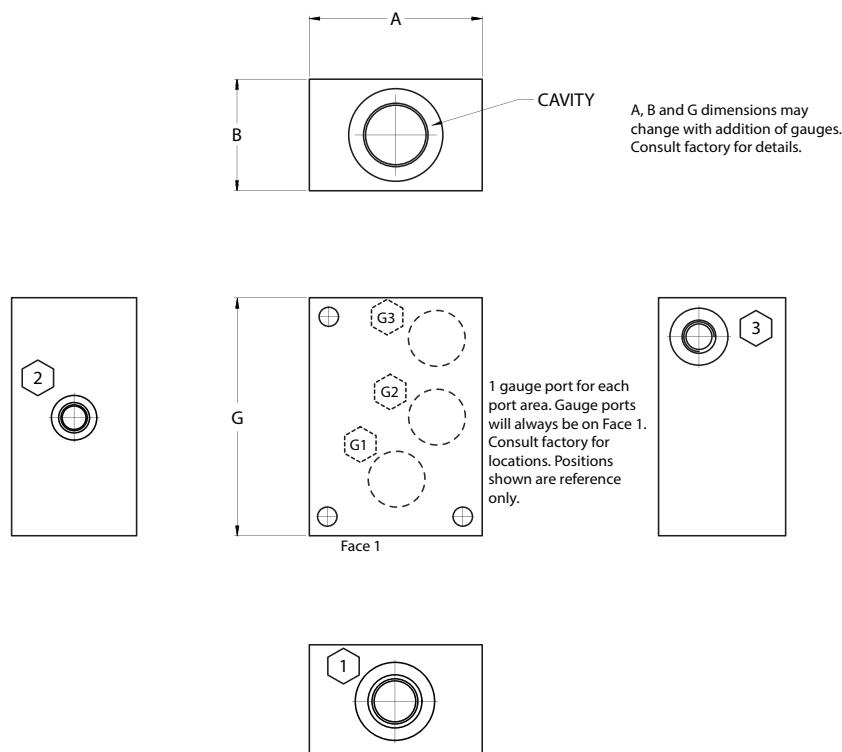
Size of Port 1 & 2	
4	1/4 inch (-4) Hose/Fitting size (M) port threads = M10 x 1.0
6	3/8 inch (-6) Hose/Fitting size (M) port threads = M14 x 1.5
8	1/2 inch (-8) Hose/Fitting size (M) port threads = M18 x 1.5
10*	5/8 inch (-10) Hose/Fitting size (M) port threads = M22 x 2.0
12	3/4 inch (-12) Hose/Fitting size (M) port threads = M27 x 2.0
16	1 inch (-16) Hose/Fitting size (M) port threads = M33 x 2.0

*10 size only available with SAE (S) or Metric (M).

Consult chart for port size availability with each cavity size, and for additional port sizes.

Options	
See next page for available options and ordering codes.	
Port Threads	
P	NPTF ANSI B1.20.3
S	SAE ISO 11926; SAE 1926
B	BSPP ISO 1179
M	ISO ISO 6149
T	BSPT ISO 7

Options - Common Cavity Bodies - Alum. & Duct. Iron



Mounting bolt size / length

0.250-20 THD	Len.	0.312-18 THD	Len.
*C082CB4[P,S]	2.00	*C162CB4[P,S]	2.50
*C082CB6[P,S]	2.00	*C162CB6[P,S]	2.50
*C082CB8[P,S]	2.00	*C162CB8[P,S]	2.50
*C082CB10[S]	2.00	*C162CB10[S]	2.50
*C082CB12[P,S]	2.50	*C162CB12[P,S]	2.50
*C082CB16[P,S]	2.50	*C162CB16[P,S]	2.50
*C083CB4[P,S]	2.00	*C163CB4[P,S]	2.50
*C083CB6[P,S]	2.00	*C163CB6[P,S]	2.50
*C083CB8[P,S]	2.00	*C163CB8[P,S]	2.50
*C083CB10[S]	2.00	*C163CB10[S]	2.50
*C083CB12[P,S]	2.50	*C163CB12[P,S]	2.50
*C083CB16[P,S]	2.50	*C163CB16[P,S]	2.50
*C102CB4[P,S]	2.00		
*C102CB6[P,S]	2.00		
*C102CB8[P,S]	2.00		
*C102CB10[S]	2.00		
*C102CB12[P,S]	2.50		
*C102CB16[P,S]	2.50		
*C103CB4[P,S]	2.00		
*C103CB6[P,S]	2.00		
*C103CB8[P,S]	2.00		
*C103CB10[S]	2.00		
*C103CB12[P,S]	2.50		
*C103CB16[P,S]	2.50		
M6 THD	Len.	M8 THD	Len.
*C082CB4[P,S]	50	*C162CB4[P,S]	65
*C082CB6[P,S]	50	*C162CB6[P,S]	65
*C082CB8[P,S]	50	*C162CB8[P,S]	65
*C082CB10[S]	50	*C162CB10[S]	65
*C082CB12[P,S]	65	*C162CB12[P,S]	65
*C082CB16[P,S]	65	*C162CB16[P,S]	65
*C083CB4[P,S]	50	*C163CB4[P,S]	65
*C083CB6[P,S]	50	*C163CB6[P,S]	65
*C083CB8[P,S]	50	*C163CB8[P,S]	65
*C083CB10[S]	50	*C163CB10[S]	65
*C083CB12[P,S]	65	*C163CB12[P,S]	65
*C083CB16[P,S]	65	*C163CB16[P,S]	65
*C102CB4[P,S]	50		
*C102CB6[P,S]	50		
*C102CB8[P,S]	50		
*C102CB10[S]	50		
*C102CB12[P,S]	65		
*C102CB16[P,S]	65		
*C103CB4[P,S]	50		
*C103CB6[P,S]	50		
*C103CB8[P,S]	50		
*C103CB10[S]	50		
*C103CB12[P,S]	65		
*C103CB16[P,S]	65		

Ordering Information

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Gauge Port

Gauge Port

G

Gauge Port

0.250 NPTF (P option)

0.250 BSPP (B option)

0.250 BSPT (T option)

M10 x 1.0 (M option)

-6 SAE (S option)

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Common Cavity Bodies - Aluminum & Ductile Iron

Part Number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Port 1	Port 2	Port 3	Port 4
C082CB4	2.25	1.50	1.13	0.75	0.75	0.58	2.00	-	1.97	-	1.72	-	-	1.13	0.75	0.28	1.72	1/4	1/4	-	-
C082CB6	2.50	1.50	1.25	0.75	0.75	0.58	2.00	-	2.22	-	1.72	-	-	1.25	0.75	0.28	1.72	3/8	3/8	-	-
C082CB8	3.00	1.50	1.50	0.75	0.75	0.62	2.25	-	2.72	-	1.97	-	-	1.50	0.75	0.28	1.97	1/2	1/2	-	-
*C082CB10(S,M)	3.00	1.50	1.75	0.75	0.75	0.70	2.50	-	2.72	-	2.22	-	-	1.75	0.75	0.28	2.22	-10/M22	-10/M22	-	-
C082CB12	3.13	2.00	1.75	1.00	1.00	0.82	2.50	-	2.84	-	2.22	-	-	1.75	1.00	0.28	2.22	3/4	3/4	-	-
C082CB16	3.50	2.00	1.75	1.00	1.00	0.97	2.75	-	3.22	-	2.47	-	-	1.75	1.00	0.28	2.47	1	1	-	-
C083CB4	2.50	1.50	1.25	0.75	0.75	1.14	2.75	-	2.22	-	2.47	0.75	0.58	1.25	0.75	0.28	2.47	1/4	1/4	1/4	-
C083CB6	3.00	1.50	1.50	0.75	0.75	1.14	2.75	-	2.72	-	2.47	0.75	0.58	1.50	0.75	0.28	2.47	3/8	3/8	3/8	-
C083CB8	3.00	1.50	1.50	0.75	0.75	1.14	3.00	-	2.72	-	2.72	0.75	0.58	1.50	0.75	0.28	2.72	1/2	1/2	1/4	-
*C083CB10(S,M)	3.00	1.50	1.50	0.75	0.75	1.14	3.00	-	2.72	-	2.72	0.75	0.58	1.50	0.75	0.28	2.72	-10/M22	-10/M22	-6/M10	-
C083CB12	3.00	2.00	1.63	1.00	1.00	1.14	3.00	-	2.72	-	2.72	1.00	0.58	1.63	1.00	0.28	2.72	3/4	3/4	1/4	-
C083CB16	3.50	2.00	1.75	1.00	1.00	1.14	3.25	-	3.22	-	2.97	1.00	0.58	1.75	1.00	0.28	2.97	1	1	1/4	-
C102CB4	2.38	1.50	1.38	0.75	0.75	0.73	2.50	-	2.09	-	2.22	-	-	1.38	0.75	0.28	2.22	1/4	1/4	-	-
C102CB6	2.50	1.50	1.38	0.75	0.75	0.73	2.50	-	2.22	-	2.22	-	-	1.38	0.75	0.28	2.22	3/8	3/8	-	-
C102CB8	2.75	1.50	1.50	0.75	0.75	0.73	2.50	-	2.47	-	2.22	-	-	1.50	0.75	0.28	2.22	1/2	1/2	-	-
*C102CB10(S,M)	3.00	1.50	1.63	0.75	0.75	0.82	3.00	-	2.72	-	2.72	-	-	1.63	0.75	0.28	2.72	-10/M22	-10/M22	-	-
C102CB12	3.00	2.00	1.75	1.00	1.00	0.84	3.00	-	2.72	-	2.72	-	-	1.75	1.00	0.28	2.72	3/4	3/4	-	-
C102CB16	3.50	2.00	2.00	1.00	1.00	1.00	3.00	-	3.22	-	2.72	-	-	2.00	1.00	0.28	2.72	1	1	-	-
C103CB4	2.50	1.50	1.25	0.75	0.75	1.37	3.00	-	2.22	-	2.72	0.75	0.75	1.25	0.75	0.28	2.72	1/4	1/4	1/4	-
C103CB6	3.00	1.50	1.50	0.75	0.75	1.37	3.00	-	2.72	-	2.72	0.75	0.75	1.50	0.75	0.28	2.72	3/8	3/8	1/4	-
C103CB8	3.00	1.50	1.50	0.75	0.75	1.37	3.25	-	2.72	-	2.97	0.75	0.75	1.50	0.75	0.28	2.97	1/2	1/2	1/4	-
*C103CB10(S,M)	3.50	1.50	1.75	0.75	0.75	1.37	3.25	-	3.22	-	2.97	0.75	0.75	1.75	0.75	0.28	2.97	-10/M22	-10/M22	-6/M10	-
C103CB12	3.50	2.00	1.75	1.00	1.00	1.37	3.25	-	3.22	-	2.97	1.00	0.75	1.75	1.00	0.28	2.97	3/4	3/4	1/4	-
C103CB16	3.50	2.00	2.00	1.00	1.00	1.37	3.50	-	3.22	-	3.22	1.00	0.75	2.00	1.00	0.28	3.22	1	1	1/4	-
C162CB4	3.00	2.00	1.50	1.00	1.00	1.00	3.00	-	2.66	-	2.66	-	-	1.50	1.00	0.34	2.66	1/4	1/4	-	-
C162CB6	3.00	2.00	1.50	1.00	1.00	1.00	3.00	-	2.66	-	2.66	-	-	1.50	1.00	0.34	2.66	3/8	3/8	-	-
C162CB8	3.25	2.00	1.75	1.00	1.00	1.00	3.00	-	2.91	-	2.66	-	-	1.75	1.00	0.34	2.66	1/2	1/2	-	-
*C162CB10(S,M)	3.25	2.00	1.75	1.00	1.00	1.00	3.00	-	2.91	-	2.66	-	-	1.75	1.00	0.34	2.66	-10/M22	-10/M22	-	-
C162CB12	3.25	2.00	1.75	1.00	1.00	1.00	3.00	-	2.91	-	2.66	-	-	1.75	1.00	0.34	2.66	3/4	3/4	-	-
C162CB16	3.50	2.00	2.00	1.00	1.00	1.00	3.50	-	3.16	-	3.16	-	-	2.00	1.00	0.34	3.16	1	1	-	-
C163CB4	3.00	2.00	1.50	1.00	1.00	2.12	4.00	-	2.66	-	3.66	1.00	1.00	1.50	1.00	0.34	3.66	1/4	1/4	1/4	-
C163CB6	3.00	2.00	1.50	1.00	1.00	2.12	4.25	-	2.66	-	3.91	1.00	1.00	1.50	1.00	0.34	3.91	3/8	3/8	3/8	-
C163CB8	3.00	2.00	1.50	1.00	1.00	2.12	4.25	-	2.66	-	3.91	1.00	1.00	1.50	1.00	0.34	3.91	1/2	1/2	1/2	-
*C163CB10(S,M)	3.00	2.00	1.50	1.00	1.00	2.12	4.50	-	2.66	-	4.16	1.00	1.00	1.50	1.00	0.34	4.16	-10/M22	-10/M22	-8/M18	-
C163CB12	3.50	2.00	1.75	1.00	1.00	2.12	4.50	-	3.16	-	4.16	1.00	1.00	1.75	1.00	0.34	4.16	3/4	3/4	1/2	-
C163CB16	3.50	2.00	1.88	1.00	1.00	2.12	4.50	-	3.16	-	4.16	1.00	1.00	1.88	1.00	0.34	4.16	1	1	1/2	-

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