



Mix-N-Match Dual Bodies Technical Information

Application Notes - Examples

OVERVIEW

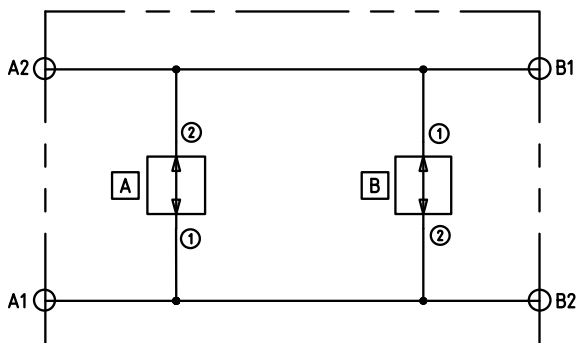
Distributors can choose from two standard dual body designs for multi-function circuits. These dual bodies will be available in both cross port and parallel circuit types. Threaded plug options are included to allow for design flexibility. Four sizes are available to house -8, -10, -12, and -16 two-way cartridges. Aluminum and steel versions with SAE or BSP ports can be selected.

- Bodies designed for Two, 2-way Cartridges
- Cross-Port and Parallel Designs
- -8, -10, -12, -16 Body Sizes
- Aluminum and Steel
- SAE and BSP Porting
- Threaded Plug Options Available for More Flexibility (Parallel Bodies)

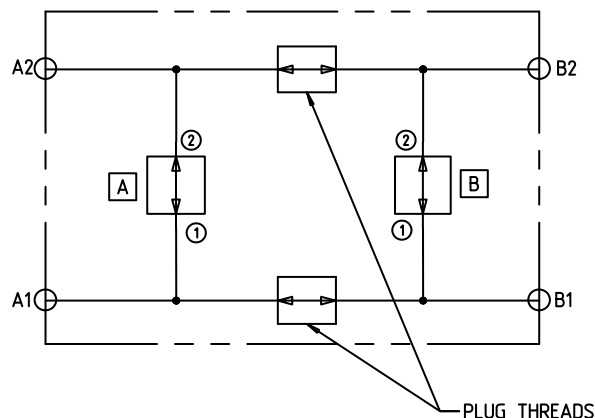
SPECIFICATIONS

Rated pressure	204 bar [3000 psi], Aluminum 414 bar [6000 psi], Ductile
Finish	Aluminum, None Ductile, Zinc Plate
Plug Torque	M10x1.0 - 321562 [16-19 Nm (11.8-14 lbf*ft)] min 3 turns M14x1.5 - 321660 [35-38 Nm (25.8-28 lbf*ft)] min 3 turns

Dual Cross Port Body - Basic Schematic



Dual Parallel Body - Basic Schematic



Dual Cross Port (DCP) Bodies

Dual Parallel (DPL) Bodies

DCP16-2

DCP12-2

DCP10-2

DCP08-2



DPL16-2

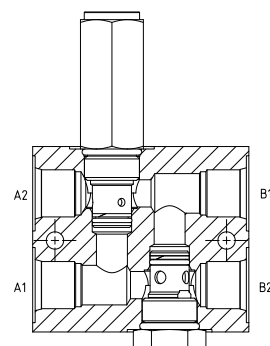
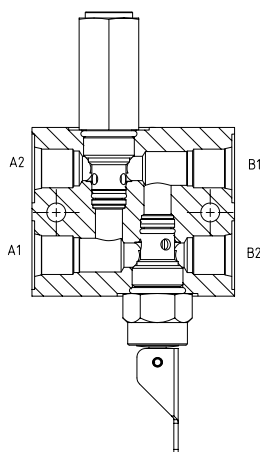
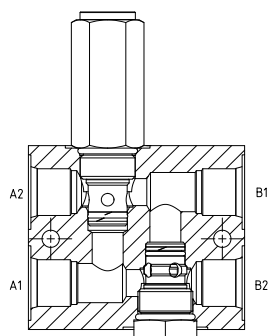
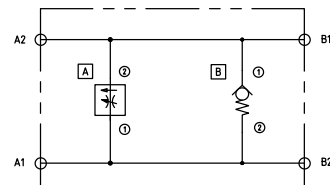
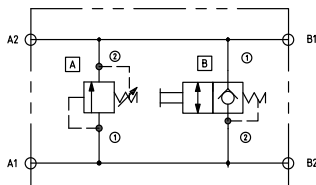
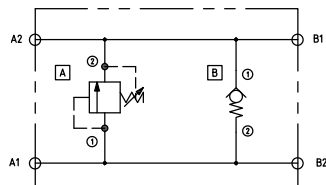
DPL12-2

DPL10-2

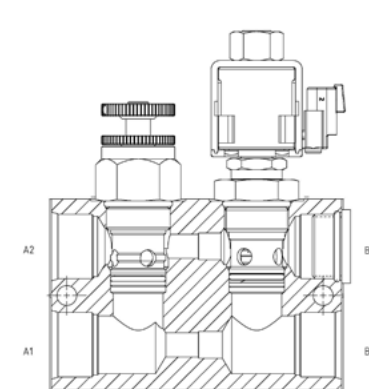
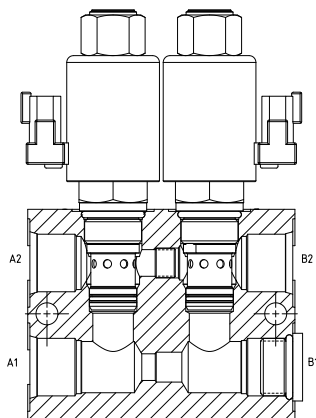
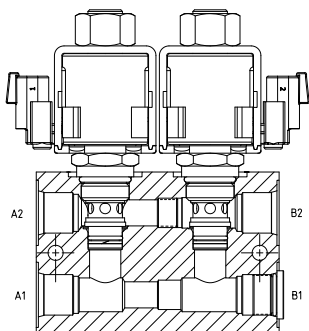
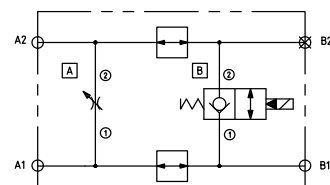
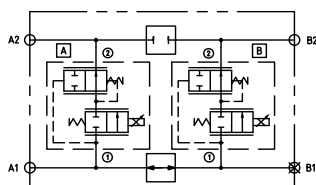
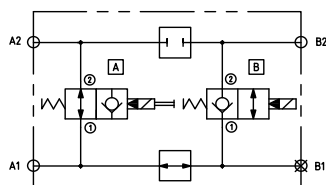
DPL08-2



Circuits Examples - Dual Cross Port Body



Circuit Examples - Dual Parallel Body

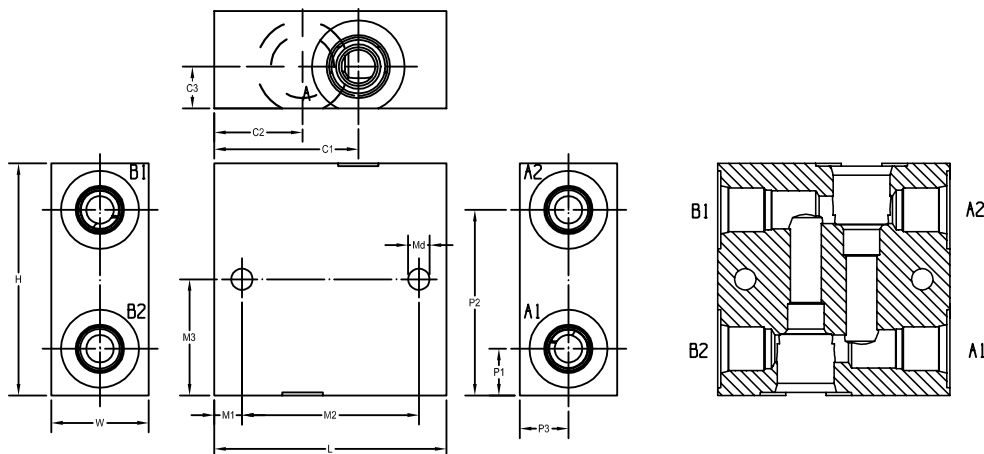




Mix-N-Match Dual Bodies Technical Information

Dual Cross-Port (DCP) Bodies

DIMENSIONS



Port Dimensions

Body	Ports (SAE)	Material	W		L		H		M1		M2		M3		Md		P1		P2		P3		C1		C2		C3	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
DCP08	#6 SAE	Aluminum	31.75	1.25	75.00	2.95	62.50	2.46	9.00	0.35	66.00	2.60	31.00	1.22	7.00	0.28	15.20	0.60	47.30	1.86	15.88	0.63	72.50	2.85	27.50	1.08	13.60	0.54
		Ductile	31.75	1.25	75.69	2.98	75.69	2.98	9.00	0.35	66.00	2.60	37.85	1.49	7.00	0.28	15.20	0.60	60.49	2.38	15.88	0.63	72.50	2.85	28.00	1.10	13.60	0.54
	#8 SAE	Aluminum	31.75	1.25	87.30	3.44	62.50	2.46	20.65	0.81	46.00	1.81	31.00	1.22	7.00	0.28	15.20	0.60	47.30	1.86	15.88	0.63	52.80	2.08	34.50	1.36	13.60	0.54
		Ductile	31.75	1.25	88.00	3.46	75.69	2.98	21.00	0.83	46.00	1.81	37.85	1.49	7.00	0.28	15.20	0.60	60.49	2.38	15.88	0.63	54.50	2.15	33.50	1.32	13.59	0.54
	#8 SAE	Aluminum	38.10	1.50	87.30	3.44	75.00	2.95	9.00	0.35	78.30	3.08	37.00	1.46	7.00	0.28	18.95	0.75	56.05	2.21	19.05	0.75	81.00	3.19	32.00	1.26	17.50	0.69
		Ductile	38.10	1.50	87.30	3.44	75.00	2.95	9.00	0.35	78.30	3.08	37.00	1.46	7.00	0.28	18.95	0.75	56.05	2.21	19.05	0.75	81.00	3.19	32.00	1.26	17.50	0.69
	#10 SAE	Aluminum	38.10	1.50	100.00	3.94	75.00	2.95	9.00	0.35	82.00	3.23	37.00	1.46	7.00	0.28	18.95	0.75	56.05	2.21	19.05	0.75	37.00	1.46	63.00	2.48	18.05	0.71
		Ductile	38.10	1.50	100.00	3.94	75.00	2.95	9.00	0.35	82.00	3.23	37.00	1.46	7.00	0.28	18.95	0.75	56.05	2.21	19.05	0.75	37.00	1.46	63.00	2.48	18.05	0.71
	#12 SAE	Aluminum	38.10	1.50	125.40	4.94	99.00	3.90	9.00	0.35	116.40	4.58	50.00	1.97	10.30	0.41	26.75	1.05	73.25	2.88	19.00	0.75	25.00	0.98	72.20	2.84	19.00	0.75
		Ductile	38.10	1.50	122.70	4.84	99.00	3.90	9.00	0.35	103.70	4.08	50.00	1.97	10.30	0.41	26.75	1.05	72.25	2.84	19.00	0.75	25.00	0.98	72.20	2.84	19.00	0.75
	#16 SAE	Aluminum	44.45	1.75	125.40	4.94	100.00	3.94	9.00	0.35	116.40	4.58	50.00	1.97	10.30	0.41	23.00	0.91	75.50	2.97	22.23	0.88	23.50	0.93	73.40	2.89	24.90	0.98
		Ductile	44.45	1.75	125.40	4.94	112.70	4.44	9.00	0.35	116.40	4.58	56.35	2.22	10.30	0.41	25.55	1.01	87.15	3.43	22.23	0.88	23.50	0.93	73.40	2.89	24.90	0.98

Body	Ports (BSP)	Material	W		L		H		M1		M2		M3		Md		P1		P2		P3		C1		C2		C3	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
DCP08	G3/8	Aluminum	32.0	1.26	75.0	2.95	62.5	2.46	9.0	0.35	57.0	2.24	31.0	1.22	7.0	0.28	15.2	0.60	47.3	1.86	16.0	0.63	46.5	1.83	28.5	1.12	13.6	0.54
		Ductile	32.0	1.26	75.0	2.95	75.0	2.95	9.0	0.35	57.0	2.24	37.5	1.48	7.0	0.28	15.2	0.60	60.5	2.38	16.0	0.63	47.0	1.85	28.7	1.13	13.6	0.54
DCP10	G1/2	Aluminum	38.0	1.50	87.3	3.44	75.0	2.95	9.0	0.35	69.3	2.73	37.0	1.46	7.0	0.28	19.0	0.75	56.1	2.21	19.0	0.75	33.5	1.32	53.8	2.12	18.1	0.71
		Ductile	38.0	1.50	87.3	3.44	75.0	2.95	9.0	0.35	69.3	2.73	37.0	1.46	7.0	0.28	19.0	0.75	56.0	2.20	19.0	0.75	33.5	1.32	53.8	2.12	18.0	0.71
DCP12	G3/4	Aluminum	38.0	1.50	112.7	4.44	99.0	3.90	9.0	0.35	94.7	3.73	50.0	1.97	10.5	0.41	26.8	1.05	72.3	2.84	19.0	0.75	71.7	2.82	41.0	1.61	19.0	0.75
		Ductile	38.0	1.50	125.4	4.94	99.0	3.90	9.0	0.35	107.4	4.23	50.0	1.97	10.5	0.41	26.7	1.05	73.3	2.88	19.0	0.75	83.4	3.28	42.0	1.65	19.0	0.75
DCP16	G1	Aluminum	45.0	1.77	129.0	5.08	99.0	3.90	10.8	0.43	107.4	4.23	49.5	1.95	10.5	0.41	22.5	0.89	75.0	2.95	22.5	0.89	81.2	3.20	47.8	1.88	22.5	0.89
		Ductile	45.0	1.77	129.0	5.08	99.0	3.90	10.8	0.43	107.4	4.23	49.5	1.95	10.5	0.41	22.5	0.89	75.0	2.95	22.5	0.89	81.2	3.20	47.8	1.88	22.5	0.89

ORDERING INFORMATION

DCP08-2-S6S

Dual Cross-Port Housing

Code	Cavities
08-2	SDC08-2
10-2	SDC10-2
12-2	CP12-2
16-2	SDC16-2

Code	Material
Omit	Aluminum, 6061-T6
S	Ductile Iron

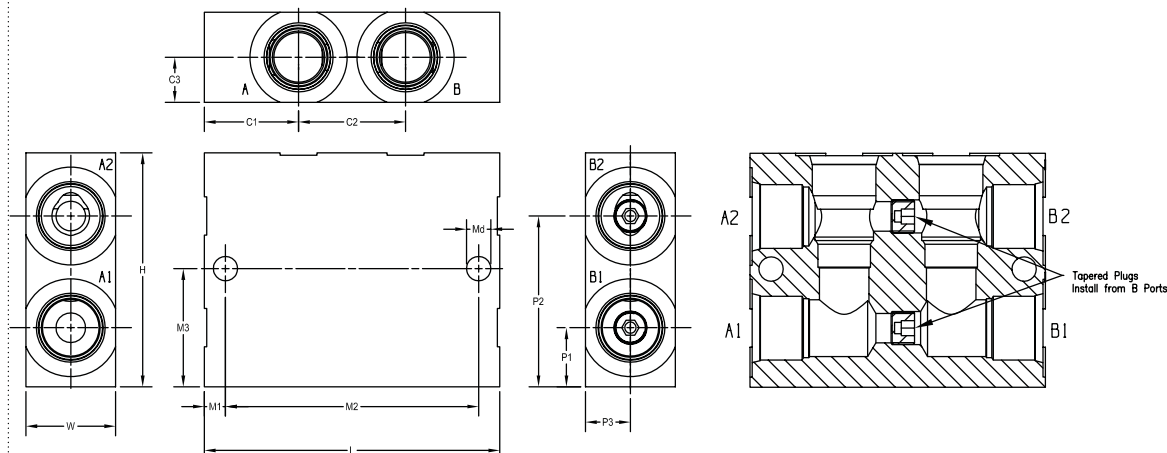
Code	Ports	Cavity
6S	#6 SAE	08-2
8S	#8 SAE	08-2 or 10-2
10S	#10 SAE	10-2
12S	#12 SAE	12-2
16S	#16 SAE	16-2
3B	3/8 BSP	08-2
4B	1/2 BSP	10-2
6B	3/4 BSP	12-2
8B	1 BSP	16-2



Mix-N-Match Dual Bodies Technical Information

Dual Parallel (DPL) Bodies

DIMENSIONS



Port Dimensions

Body	Ports (SAE)	Plug Thread (Plug Part #)	Material	W		L		H		M1		M2		M3		Md		P1		P2		P3		C1		C2		C3	
				mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
DPL08	#6 SAE	M10x1 (321562)	Aluminum	31.80	1.25	100.00	3.94	62.50	2.46	8.00	0.31	84.00	3.31	31.20	1.23	7.00	0.28	15.00	0.59	47.30	1.86	15.90	0.63	27.50	1.08	45.00	1.77	13.60	0.54
			Ductile	31.80	1.25	100.00	3.94	75.70	2.98	8.00	0.31	84.00	3.31	37.80	1.49	7.00	0.28	15.00	0.59	60.50	2.38	15.90	0.63	27.50	1.08	45.00	1.77	13.60	0.54
	#8 SAE		Aluminum	31.80	1.25	112.00	4.41	62.50	2.46	19.00	0.75	74.00	2.91	31.25	1.23	7.00	0.28	16.00	0.63	59.69	2.35	15.90	0.63	34.00	1.34	79.00	3.11	13.59	0.54
			Ductile	31.80	1.25	112.00	4.41	75.70	2.98	19.00	0.75	74.00	2.91	37.85	1.49	7.00	0.28	16.00	0.63	59.69	2.35	15.90	0.63	34.00	1.34	79.00	3.11	13.59	0.54
DPL10	#8 SAE	M14x1.5 (321660)	Aluminum	38.10	1.50	113.30	4.46	75.70	2.98	9.00	0.35	104.30	4.11	37.80	1.49	7.00	0.28	18.00	0.71	56.70	2.23	19.00	0.75	32.00	1.26	48.70	1.92	17.50	0.69
			Ductile	38.10	1.50	113.30	4.46	75.70	2.98	9.00	0.35	104.30	4.11	37.80	1.49	7.00	0.28	18.00	0.71	56.70	2.23	19.00	0.75	32.00	1.26	48.70	1.92	17.50	0.69
	#10 SAE		Aluminum	38.10	1.50	125.00	4.92	75.70	2.98	9.00	0.35	107.00	4.21	37.80	1.49	7.00	0.28	18.00	0.71	56.70	2.23	19.00	0.75	36.00	1.42	89.00	3.50	17.50	0.69
			Ductile	38.10	1.50	125.00	4.92	75.70	2.98	9.00	0.35	107.00	4.21	37.80	1.49	7.00	0.28	18.00	0.71	56.70	2.23	19.00	0.75	36.00	1.42	89.00	3.50	17.50	0.69
DPL12	#12 SAE	M14x1.5 (321660)	Aluminum	38.10	1.50	125.40	4.94	99.00	3.90	9.00	0.35	116.40	4.58	50.00	1.97	10.30	0.41	25.00	0.98	72.20	2.84	19.00	0.75	40.00	1.57	72.20	2.84	19.00	0.75
			Ductile	38.10	1.50	125.40	4.94	99.00	3.90	9.00	0.35	116.40	4.58	50.00	1.97	10.30	0.41	25.00	0.98	72.20	2.84	19.00	0.75	40.00	1.57	72.20	2.84	19.00	0.75
DPL16	#16 SAE	M14x1.5 (321660)	Aluminum	49.80	1.96	152.40	6.00	99.00	3.90	9.00	0.35	143.40	5.65	49.00	1.93	10.30	0.41	23.50	0.93	73.40	2.89	24.90	0.98	46.00	1.81	73.40	2.89	24.90	0.98
			Ductile	49.80	1.96	152.40	6.00	99.00	3.90	9.00	0.35	143.40	5.65	49.00	1.93	10.30	0.41	23.50	0.93	73.40	2.89	24.90	0.98	46.00	1.81	73.40	2.89	24.90	0.98

Body	Ports (BSP)	Plug Thread (Plug Part #)	Material	W		L		H		M1		M2		M3		Md		P1		P2		P3		C1		C2		C3	
				mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
DPL08	G3/8	M10x1 (321562)	Aluminum	32.0	1.26	100.0	3.94	62.5	2.46	8.0	0.31	84.0	3.31	31.3	1.23	7.0	0.28	15.0	0.59	47.5	1.87	16.0	0.63	72.5	2.85	27.5	1.08	13.6	0.54
			Ductile	32.0	1.26	100.0	3.94	75.7	2.98	8.0	0.31	84.0	3.31	37.9	1.49	7.0	0.28	15.0	0.59	60.8	2.39	16.0	0.63	72.6	2.86	28.0	1.10	13.6	0.54
DPL10	G1/2	M14x1.5 (321660)	Aluminum	38.0	1.50	113.0	4.45	75.0	2.95	9.2	0.36	94.7	3.73	37.5	1.48	7.0	0.28	18.0	0.71	58.5	2.30	19.0	0.75	81.0	3.19	32.0	1.26	17.5	0.69
			Ductile	38.0	1.50	113.0	4.45	75.0	2.95	9.2	0.36	94.7	3.73	37.5	1.48	7.0	0.28	18.0	0.71	58.5	2.30	19.0	0.75	81.0	3.19	32.0	1.26	17.5	0.69
DPL12	G3/4	M14x1.5 (321660)	Aluminum	38.0	1.50	126.0	4.96	99.0	3.90	9.3	0.37	107.4	4.23	50.0	1.97	10.5	0.41	25.0	0.98	72.2	2.84	19.0	0.75	85.5	3.37	40.0	1.57	19.0	0.75
			Ductile	38.0	1.50	126.0	4.96	99.0	3.90	9.3	0.37	107.4	4.23	50.0	1.97	10.5	0.41	25.0	0.98	72.2	2.84	19.0	0.75	85.5	3.37	40.0	1.57	19.0	0.75
DPL16	G1	M14x1.5 (321660)	Aluminum	50.0	1.97	155.0	6.10	99.0	3.90	10.3	0.41	134.4	5.29	49.0	1.93	10.5	0.41	23.5	0.93	73.5	2.89	25.0	0.98	107.7	4.24	47.3	1.86	25.0	0.98
			Ductile	50.0	1.97	155.0	6.10	99.0	3.90	10.3	0.41	134.4	5.29	49.0	1.93	10.5	0.41	23.5	0.93	73.5	2.89	25.0	0.98	107.7	4.24	47.3	1.86	25.0	0.98

ORDERING INFORMATION

Dual Parallel Housing			DPL08-2-S6S-A		
Code	Cavities		Code	Material	
08-2	SDC08-2		Omit	Aluminum, 6061-T6	
10-2	SDC10-2		S	Ductile Iron	
12-2	CP12-2				
16-2	SDC16-2				
Code	Ports	Cavity	Code	Plugs	
6S	#6 SAE	08-2	Omit	None	
8S	#8 SAE	08-2 or 10-2	A	Plug A1 - B1	
10S	#10 SAE	10-2	B	Plug A2 - B2	
12S	#12 SAE	12-2	C	Plug Both	
16S	#16 SAE	16-2			
3B	3/8 BSP	08-2			
4B	1/2 BSP	10-2			
6B	3/4 BSP	12-2			
8B	1 BSP	16-2			