

Product Tips and Features

Bar Manifolds

1. Standard materials are Aluminum and Ductile Iron. Other materials including Mild Steel or Stainless Steel are optionally available.
2. Special Finishes including Black Oxide, Electroless Nickel Plating or Anodizing are optionally available.
3. Internal galleries are equal to or greater than the nominal port connection in order to minimize pressure drops and fluid velocities.
4. Port spacing and edge distance is maximized in order to ensure easier installation and servicing. This wider spacing requires larger or different cross-sections than typically found on some models.
5. P to T Relief cavities in Sun and Common Cavity form are standard options, while the ISO and other types are non-standard options.
6. No variation in the design layout for each Model regardless of Port Code.
7. Manifolds with Flange Ports are available with UNC mounting threads and SAE Ports or with Metric mounting threads and Metric Ports as standard.
8. UNC or Metric Mounting Bracket Kits are Standard. Four-Bolt Mounting Option for vertically mounting D03 and D05 Standard Flow Parallel Manifolds to the reservoir top and improved performance is available.
9. Common Drain Ports where offered are supplied on both ends of the manifolds for ease of installation and connecting a series of manifolds without the need of tees or elbows.
10. Independent Pilot Pressure Ports are standard options. Common Pilot Pressure Ports are available as a Standard Option for D05H(E) High Flow and Very High Flow Manifolds and as a Non-Standard Option for D07, D08 and D10 Manifolds.
11. Dual Tank Ports on the interface of all D05H and D05HE High Flow and Very High Flow Manifolds with X & Y ensures maximum valve performance unlike many competitor products.
12. Pilot Port adapters for any D05 manifold ease the installation of any D05H and D05HE Two-Stage valves. Only order the number of stations required. Please note these adapters are best suited on the ends of the manifold.
13. "P" and "T" port isolations are available for manifolds up to 10 stations. A second gauge port is provided with "P" port isolations when possible. See chart on Page 1.00.02 for coding option.

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ISOLATION PORT CODES

When isolations are required in the pressure or tank ports for any Bar Manifold, the final two letters in the part number need to be modified as per the chart below. The second last character identifies the pressure port isolation and the last character identifies the tank port isolations.

For Example: "P" Port Code = $\downarrow|\downarrow$ = "T" Port Code

1. **BA03GPS04SDUAA $\downarrow|\downarrow$** is a Four Station Standard Flow D03 Parallel Circuit Manifold with SAE Ports, no isolations and no Relief Cavity
2. **BA03GPS04SDUCA $\downarrow|\downarrow$** is as 1) with the Sun T-10A Relief Cavity Option
3. **BA03GPS04SDUCAC $\downarrow|\downarrow$** is as 2) with Pressure Port Isolation only between Stations 2 & 3 of this Four Station Manifold. The Relief Cavity is left of the isolation as viewed from the A & B working ports.
4. **BA03GPS04SDUCAT $\downarrow|\downarrow$** is as 2) with Pressure and Tank Port Isolations between Stations 3 & 4, and Two Sun T-10A Relief Cavities, one on each side of the isolations.
5. **BA03GPS04SDUAAC $\downarrow|\downarrow$** is as 1) with Pressure Port Isolation between Stations 2 & 3 and Tank Port Isolation between Stations 1 & 2.

Isolation Location	CODE	Relief Location	CODE	Relief Location	CODE	Relief Location
None	A	Standard				
01 - 02	B	Left or None	J	Right	R	Both Sides
02 - 03	C	Left or None	K	Right	S	Both Sides
03 - 04	D	Left or None	L	Right	T	Both Sides
04 - 05	E	Left or None	M	Right	U	Both Sides
05 - 06	F	Left or None	N	Right	V	Both Sides
06 - 07	G	Left or None	O	Right	W	Both Sides
07 - 08	H	Left or None	P	Right	X	Both Sides
08 - 09	I	Left or None	Q	Right	Y	Both Sides
09 - 10	2	Left or None	5	Right	Z	Both Sides
10 - 11	3	Left or None	6	Right	8	Both Sides
11 - 12	4	Left or None	7	Right	9	Both Sides

Note: All Part Number combinations may not be possible.

Please consult the factory to confirm your application requirements.

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NON-STANDARD OPTIONS & ACCESSORIES

1. Some single station manifolds are too narrow to accommodate a gauge port. If a gauge port is required, please request the wide spacing option.
For Example: BA03GPT01SDUAAAA is an aluminum D03 single station manifold with gauge port.
2. Some applications require smaller work ports than the standard model. Many bar manifolds can be supplied with work ports one size smaller than the standard shown in the catalog.
For Example: BA03GPS03SCUAAAA is an aluminum D03 three station manifold with SAE 6 A & B ports and all other ports per the standard option. Contact the Factory for model numbers available.
3. Custom modifications include gauge ports opposite all work ports. Contact the Factory for model numbers available.
4. Special manifolds with dual work ports are available. Contact the Factory for model numbers available.
5. Contact the Factory for part numbers of D07, D08 and D10 Bar Manifolds with over-sized interface ports to match many high-performance proportional valves.
6. Most manifolds can be supplied with a 4 or 6 bolt mounting on the ends for vertical installations or tank top mounting. Contact the Factory for models and mounting adapters available.
7. D05 High Flow and Very High Flow Bar Manifolds are available with the "L" port option. Contact the Factory for Part numbers.
8. Two station valve adapters for two-speed function are standard products in D03 thru D08 sizes. Contact the Factory for model numbers available. Please refer to Section 10 for the LYNCH standard sandwich modules "RM series" that eliminate the need for a second station, flow control and solenoid valve. These modules are available on P, A, B or T in M/I or M/O options for D03 thru D08.
9. Many manifold series can be supplied in an all-metric format. This series uses materials with standard metric cross-sections and all critical spacing on standard metric dimensions.

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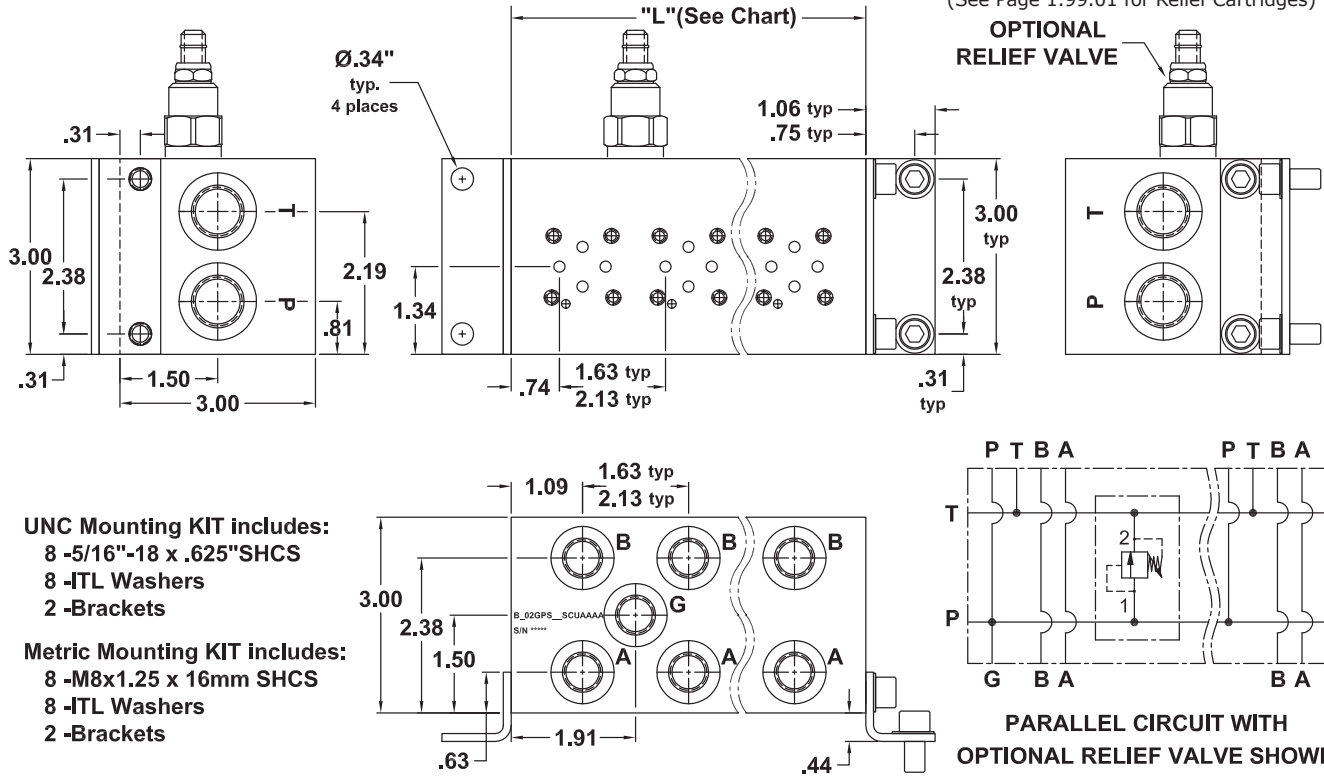
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D02 Standard Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



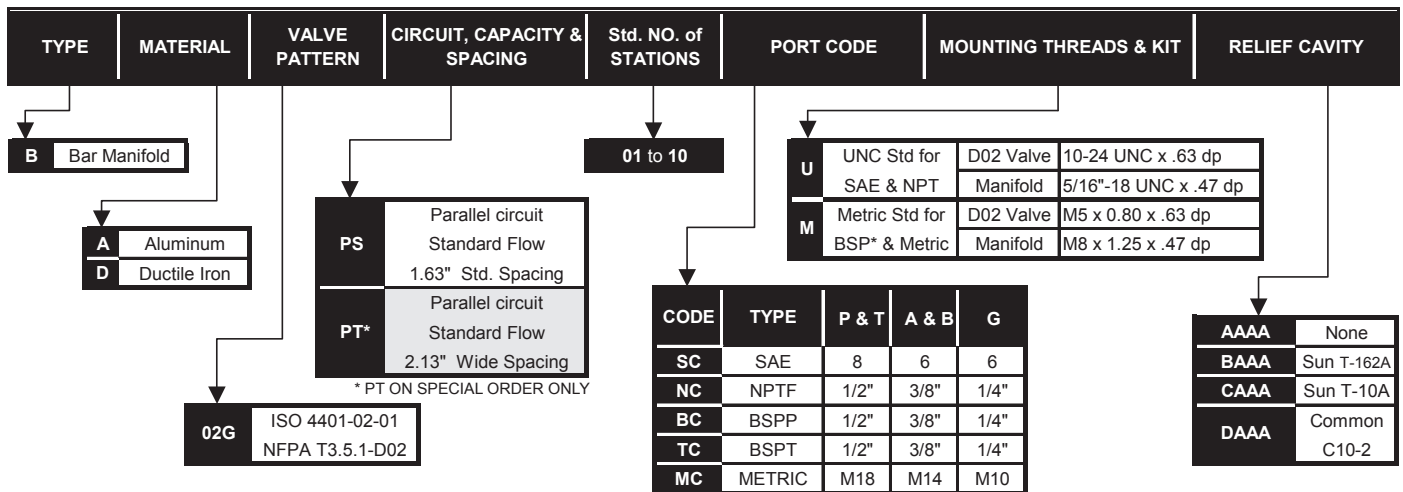
No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 1.63" spacing	2.19	3.13	3.81	5.44	7.06	8.69	10.31	11.94	13.56	15.19	16.81	18.44	20.06	21.69	23.31	24.94	26.56
est. weight in lb.- alum	3	4	4	5	7	8	9	11	12	13	15	16	17	19	20	21	23
est. weight in lb.- iron	6	8	9	13	16	20	24	27	31	34	38	41	45	48	52	56	59
Dim. "L", 2.13" spacing	-	-	4.31	6.44	8.56	10.69	12.81	14.94	17.06	19.19	21.31	23.44	25.56	27.69	29.81	31.94	34.06
est. weight in lb.- alum	-	-	4	6	8	10	11	13	15	17	18	20	22	23	25	27	29
est. weight in lb.- iron	-	-	10	15	20	24	29	34	38	43	48	52	57	62	66	71	75

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D02 with 1.63" Spacing & SAE Porting example: **BA02GPS**SCUAAAA**

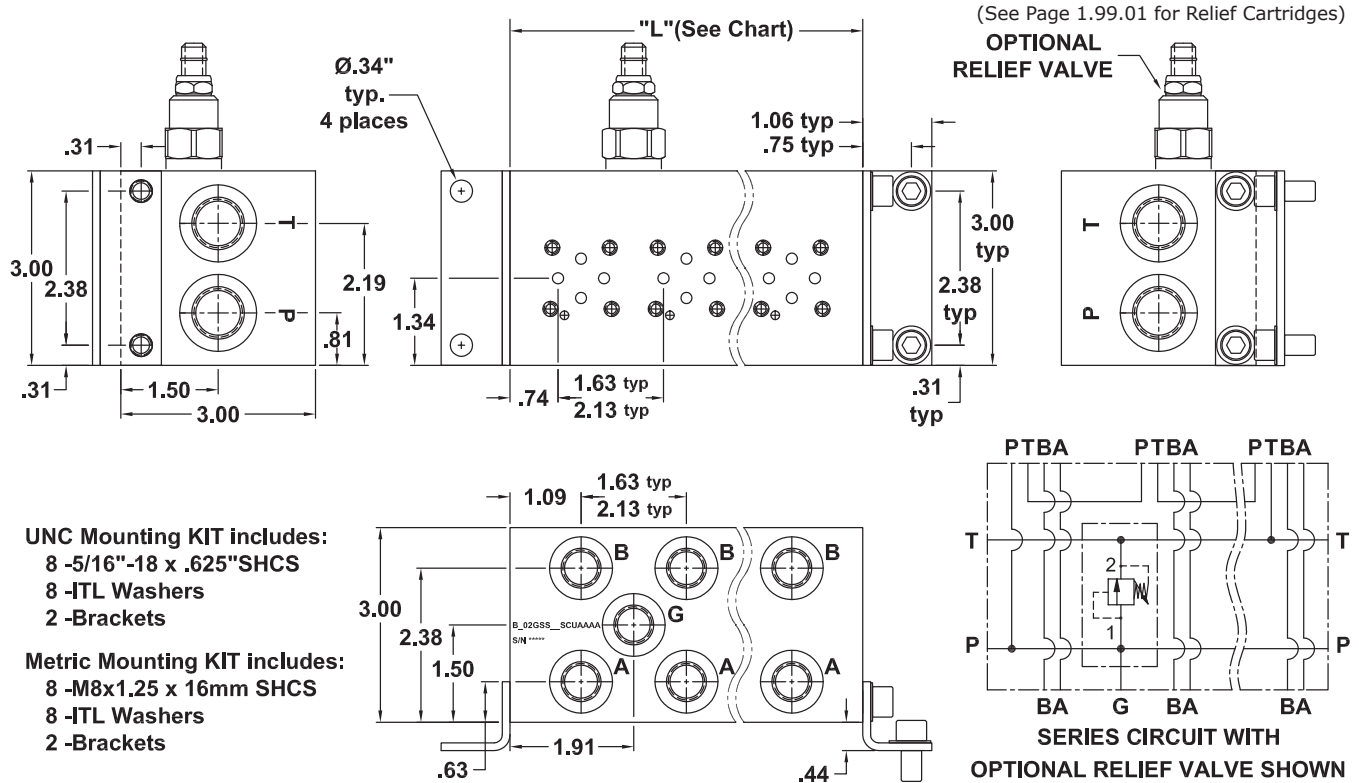


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D02 Standard Flow Series Circuit Manifold

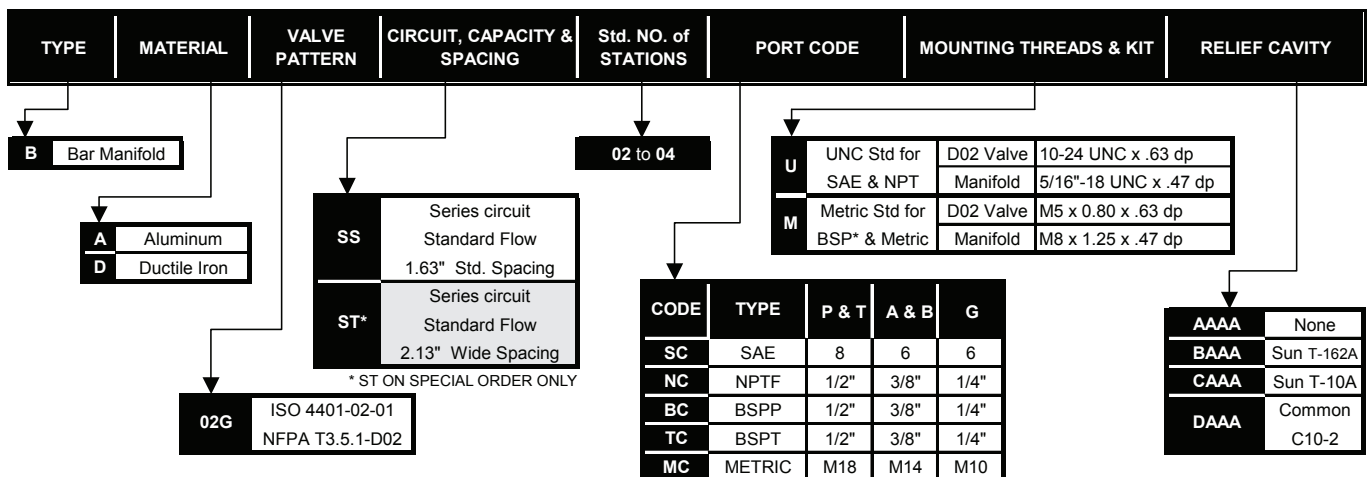


No. of Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 1.63" spacing	3.81	5.44	7.06	8.69	10.31	11.94	13.56	15.19	16.81	18.44	20.06	21.69	23.31	24.94	26.56
est. weight in lb.- alum	4	5	7	8	9	11	12	13	15	16	17	19	20	21	23
est. weight in lb.- iron	9	13	16	20	24	27	31	34	38	41	45	48	52	56	59
Dim. "L", 2.13" spacing	4.31	6.44	8.56	10.69	12.81	14.94	17.06	19.19	21.31	23.44	25.56	27.69	29.81	31.94	34.06
est. weight in lb.- alum	4	6	8	10	11	13	15	17	18	20	22	23	25	27	29
est. weight in lb.- iron	10	15	20	24	29	34	38	43	48	52	57	62	66	71	75

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PART NUMBER SYSTEM

Aluminum D02 with 1.63" Spacing & SAE Porting example: **BA02GSS**SCUAAAA**



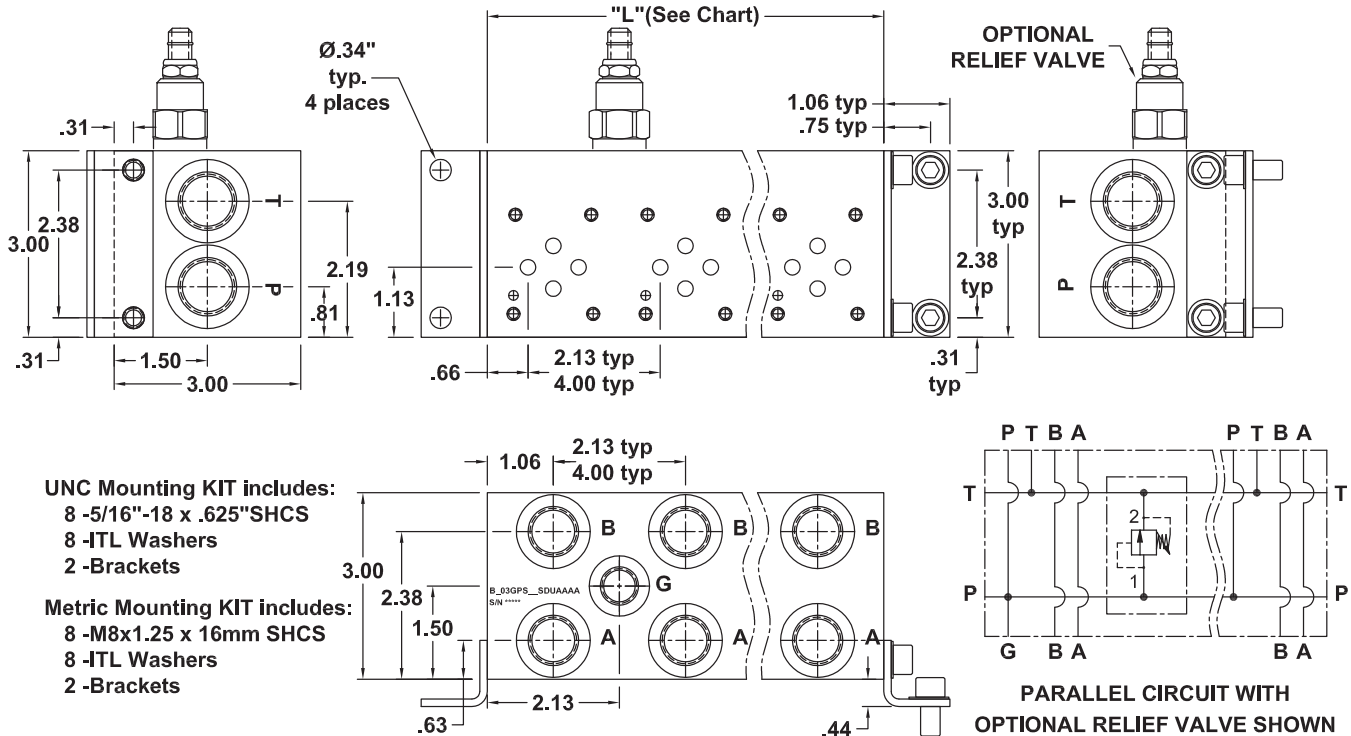
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D03 Standard Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 2.13" spacing	2.13	3.25	4.25	6.38	8.50	10.63	12.75	14.88	17.00	19.13	21.25	23.38	25.50	27.63	29.75	31.88	34.00
est. weight in lb.- alum	3	4	4	6	8	9	11	12	14	16	18	20	21	22	24	26	27
est. weight in lb.- iron	5	7	9	13	17	21	26	30	34	38	42	47	51	55	59	63	68
Dim. "L", 4.00" spacing	-	-	6.13	10.13	14.13	18.13	22.13	26.13	30.13	34.13	38.13	-	-	-	-	-	-
est. weight in lb.- alum	-	-	6	9	12	15	19	22	25	28	32	-	-	-	-	-	-
est. weight in lb.- iron	-	-	12	20	28	36	45	53	61	69	78	-	-	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D03 with 2.13" Spacing & SAE Porting example: **BA03GPS**SDUAAAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY
B Bar Manifold	A Aluminum D Ductile Iron	PS Parallel circuit Standard Flow 2.13" Std. Spacing PT Parallel circuit Standard Flow 4.00" Wide Spacing	03G ISO 4401-03-02 NFPA T3.5.1-D03	01 to 16	U UNC Std for SAE & NPT M Metric Std for BSP* & Metric	D03 Valve Manifold 10-24 UNC x .63 dp 5/16"-18 UNC x .47 dp D03 Valve Manifold M5 x 0.80 x .63 dp M8 x 1.25 x .47 dp	AAAA None CAAA Sun T-10A DAAA Common C10-2
SD SAE NC NPTF BC BSPP TC BSPT MD METRIC	P & T	A & B	G				
	10	8	6				
	1/2"	3/8"	1/4"				
	1/2"	3/8"	1/4"				
	1/2"	3/8"	1/4"				
	M22	M18	M10				

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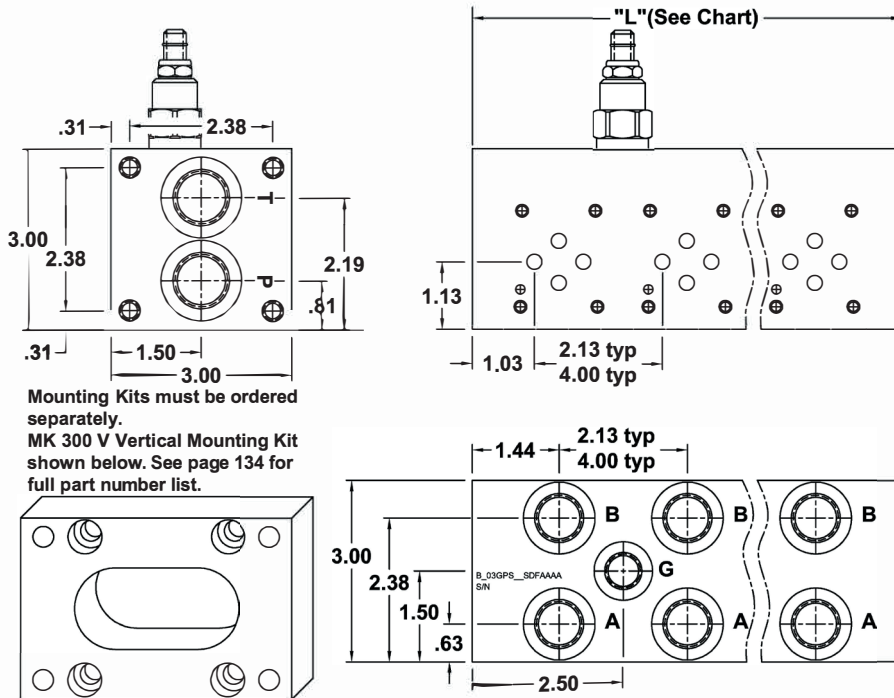
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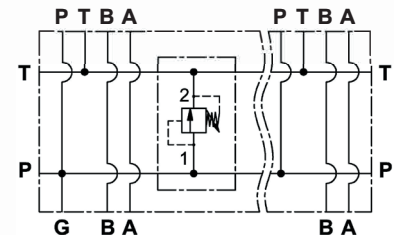
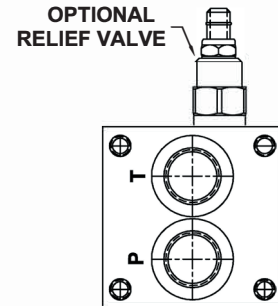
D03 Std Flow Parallel Circuit Manifold (4 Bolt)

Note: Extra length ensures P & T galleries from interface are not obstructed by the end port fittings

(See Page 1.99.01 for Relief Cartridges)



Mounting Kits must be ordered separately.
MK 300 V Vertical Mounting Kit shown below. See page 134 for full part number list.



PARALLEL CIRCUIT WITH
OPTIONAL RELIEF VALVE SHOWN

No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 2.13" spacing	2.88	3.63	5.00	7.13	9.25	11.38	13.50	15.63	17.75	19.88	22.00	24.13	26.25	28.38	30.50	32.63	34.75
est. weight in lb.- alum	3	4	5	7	8	10	12	13	15	17	19	20	22	24	25	27	29
est. weight in lb.- iron	7	8	11	15	19	24	28	32	37	41	45	49	54	58	62	67	71
Dim. "L", 4.00" spacing	-	-	6.88	10.88	14.88	18.88	22.88	26.88	30.88	34.88	38.88	-	-	-	-	-	-
est. weight in lb.- alum	-	-	6	10	13	16	19	23	26	29	32	-	-	-	-	-	-
est. weight in lb.- iron	-	-	15	23	31	39	47	55	63	71	79	-	-	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

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PART NUMBER SYSTEM

Aluminum D03 with 2.13" Spacing & SAE Porting example: BA03GPS**SDFAAAA

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	VALVE & MANIFOLD 4 BOLT MOUNTING THREADS	RELIEF CAVITY
B	Bar Manifold			01 to 16	F	UNC Std for SAE & NPT	D03 Valve 10-24 UNC x .63 dp
					G	Metric Std for BSP* & Metric	D03 Valve M5 x 0.80 x .63 dp
							Manifold 5/16"-18 UNC x .47 dp
							Manifold M8 x 1.25 x .47 dp
A	Aluminum	PS	Parallel circuit Standard Flow 2.13" Std. Spacing		CODE	TYPE	P & T
D	Ductile Iron	PT	Parallel circuit Standard Flow 4.00" Wide Spacing		SD	SAE	10
					NC	NPTF	1/2"
					BC	BSPP	1/2"
					TC	BSPT	1/2"
					MD	METRIC	M22
							M18
							M10
03G	ISO 4401-03-02 NFPA T3.5.1-D03						

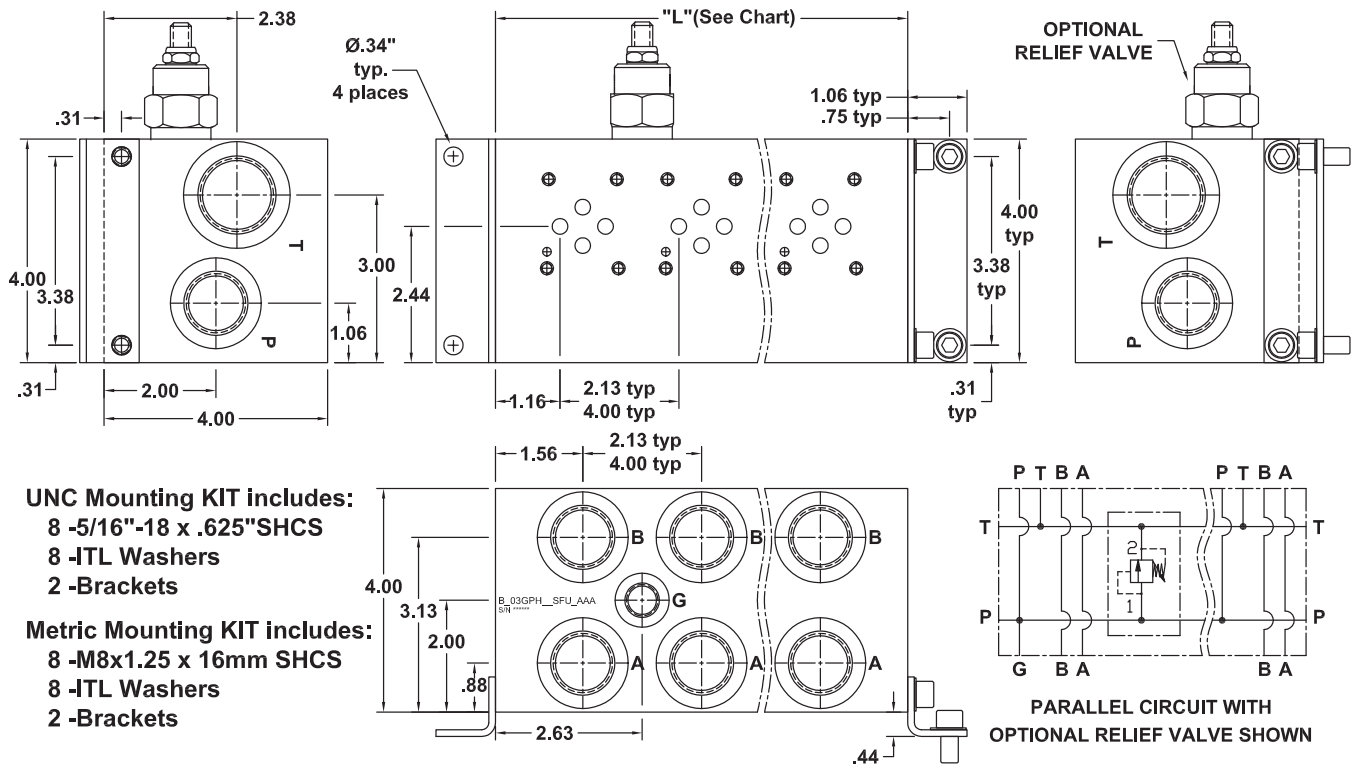
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D03 High Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



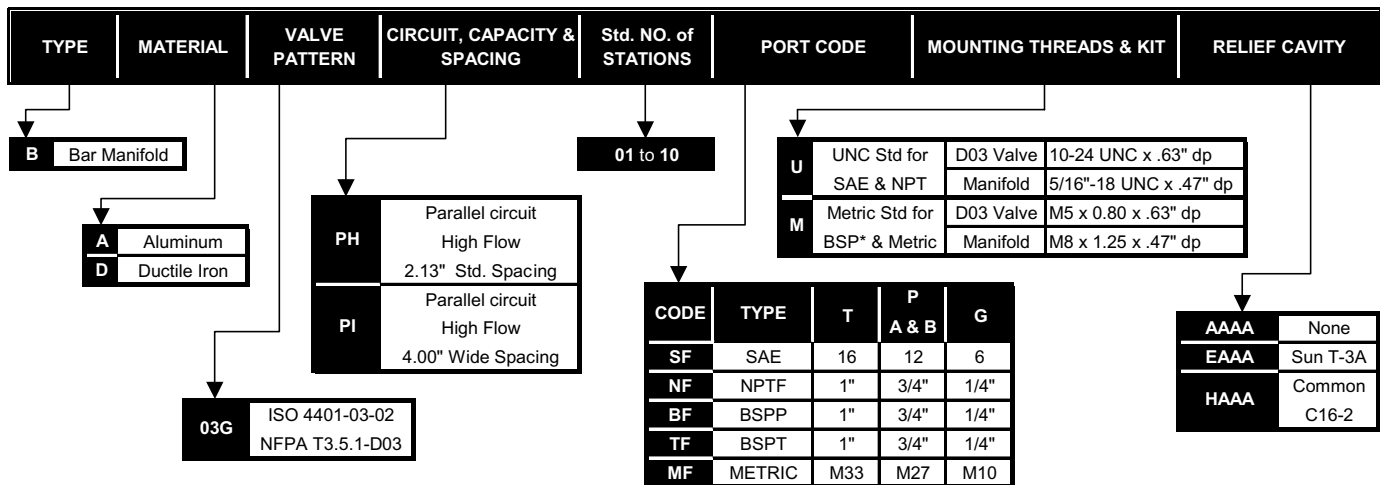
No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 2.13" spacing	3.13	4.25	5.25	7.38	9.50	11.63	13.75	15.88	18.00	20.13	22.25	24.38	26.50	28.63	30.75	32.88	35.00
est. weight in lb.- alum	5	7	8	11	14	17	21	24	27	30	33	36	39	42	45	48	51
est. weight in lb.- iron	13	17	21	29	38	46	54	62	71	79	87	96	104	112	120	129	137
Dim. "L", 4.00" spacing	-	-	7.13	11.13	15.13	19.13	23.13	27.13	31.13	35.13	39.13	-	-	-	-	-	-
est. weight in lb.- alum	-	-	11	17	23	28	34	40	46	51	57	-	-	-	-	-	-
est. weight in lb.- iron	-	-	28	44	60	75	91	106	122	137	153	-	-	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

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PART NUMBER SYSTEM

Aluminum D03 with 2.13" Spacing & SAE Porting example: **BA03GPH**SFUAAAA**



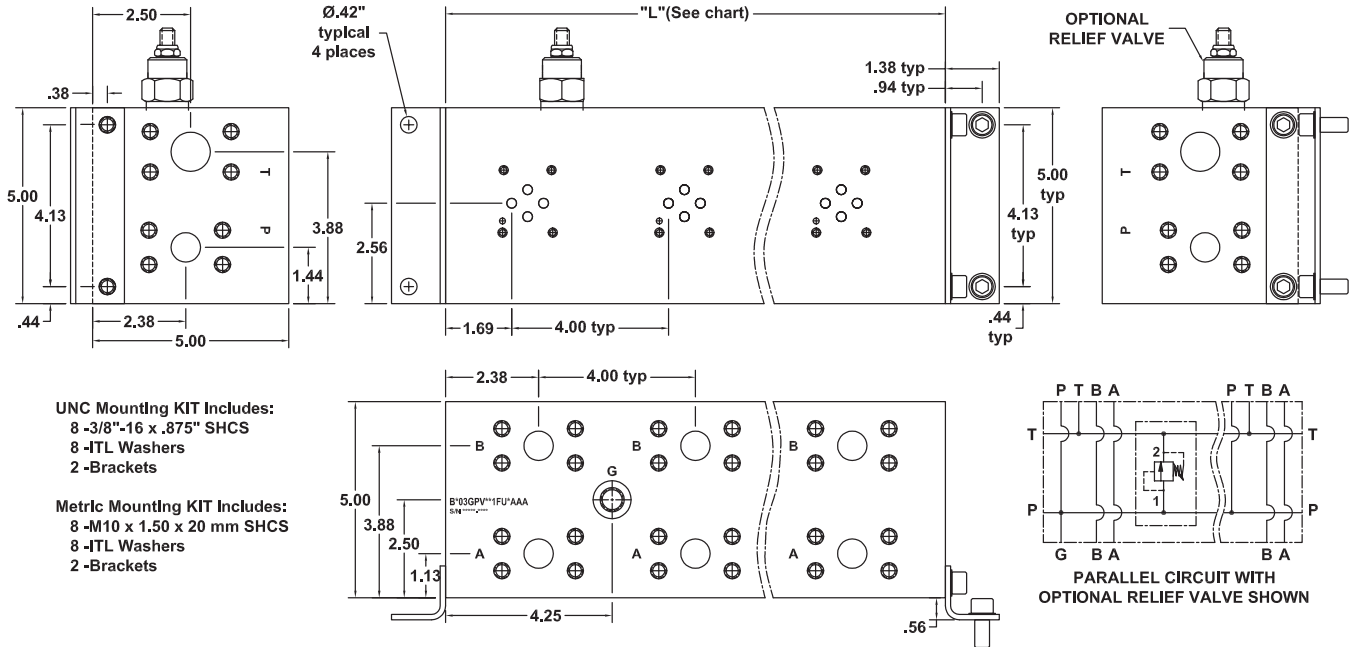
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D03 Very High Flow Parallel Circuit with Flange Ports

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1*	1**	2	3	4	5	6	7	8	9
Dim. "L", 4.00" spacing	4.75	5.50	8.75	12.75	16.75	20.75	24.75	28.75	32.75	36.75
est. weight in lb.- alum	11	14	20	29	38	47	56	65	74	83
est. weight in lb.- iron	28	38	52	76	101	125	149	174	198	222

** DIMENSIONS FOR 1 STATION WITH C10-2 RELIEF CAVITY
* DIMENSIONS FOR 1 STATION WITH T-3A RELIEF CAVITY

SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D03 with 4.00" Spacing & UNC Mounting example: **BA03GPV**1FUAAAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY
B Bar Manifold	A Aluminum D Ductile Iron	PV Parallel circuit Very High Flow 4.00" Std. Spacing	01 to 08	U UNC Std with SAE 6 Gauge M Metric Std with M10 Gauge	D03 Valve Manifold	10-24 UNC x .63" dp 3/8"-16 UNC x 0.75" dp M5 x 0.80 x .63" dp M10 x 1.50 x 0.75" dp	AAAA None EAAA Sun T-3A HAAA Common C16-2
03G ISO 4401-03-02 NFPA T3.5.1-D03				CODE TYPE T P G* 1F SAE CODE 61 1" 3/4" 6			

* Gauge Port determined by Mounting Threads

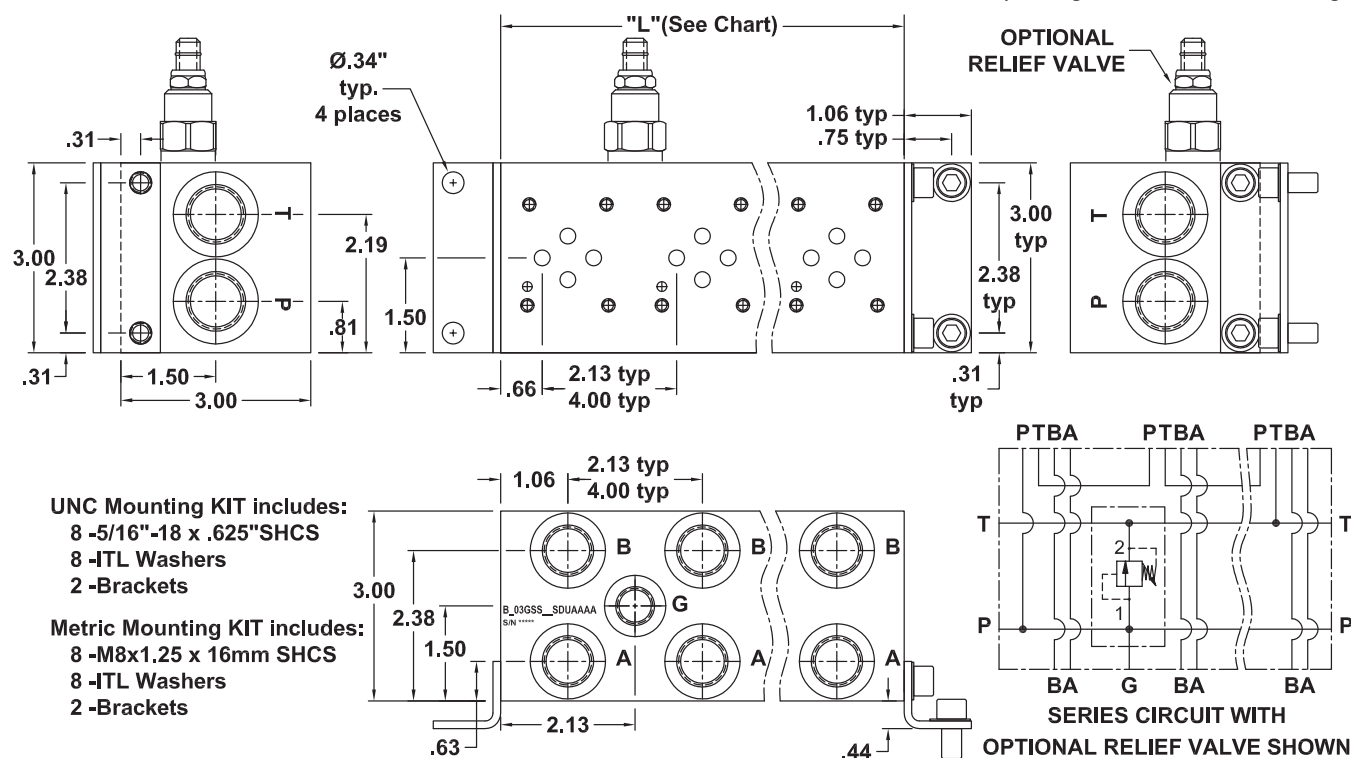
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D03 Standard Flow Series Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)

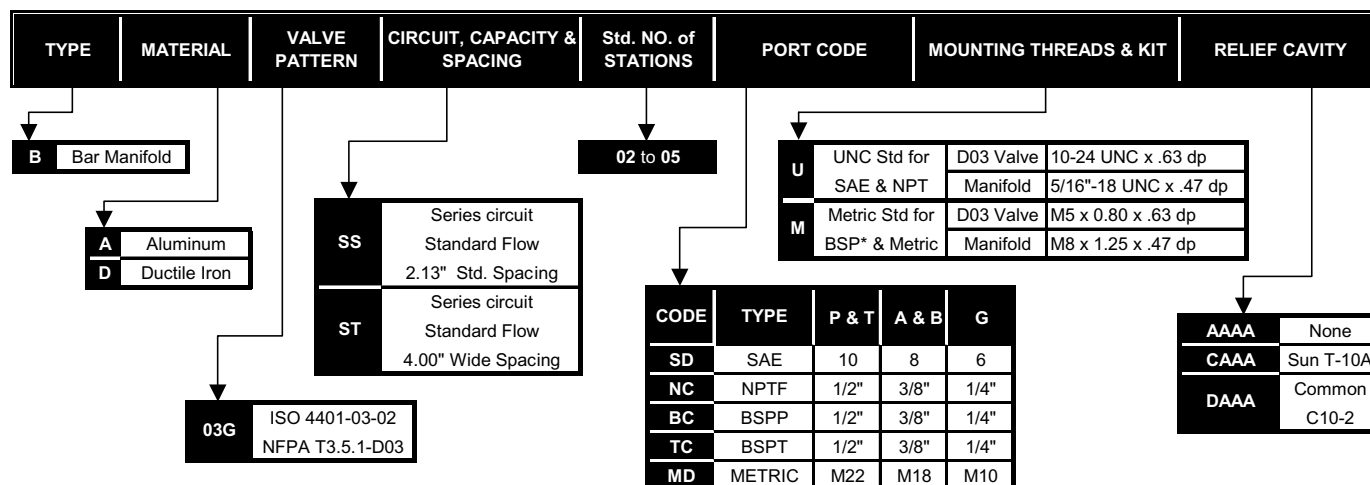


No. of Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L",2.13" spacing	4.25	6.38	8.50	10.63	12.75	14.88	17.00	19.13	21.25	23.38	25.50	27.63	29.75	31.88	34.00
est. weight in lb.- alum	4	6	8	9	11	12	14	16	18	20	21	22	24	26	27
est. weight in lb.- iron	9	13	17	21	26	30	34	38	42	47	51	55	59	63	68
Dim. "L",4.00" spacing	6.13	10.13	14.13	18.13	22.13	26.13	30.13	34.13	38.13	-	-	-	-	-	-
est. weight in lb.- alum	6	9	12	15	19	22	25	28	32	-	-	-	-	-	-
est. weight in lb.- iron	12	20	28	36	45	53	61	69	78	-	-	-	-	-	-

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D03 with 2.13" Spacing & SAE Porting example: **BA03GSS**SDUAAAA**

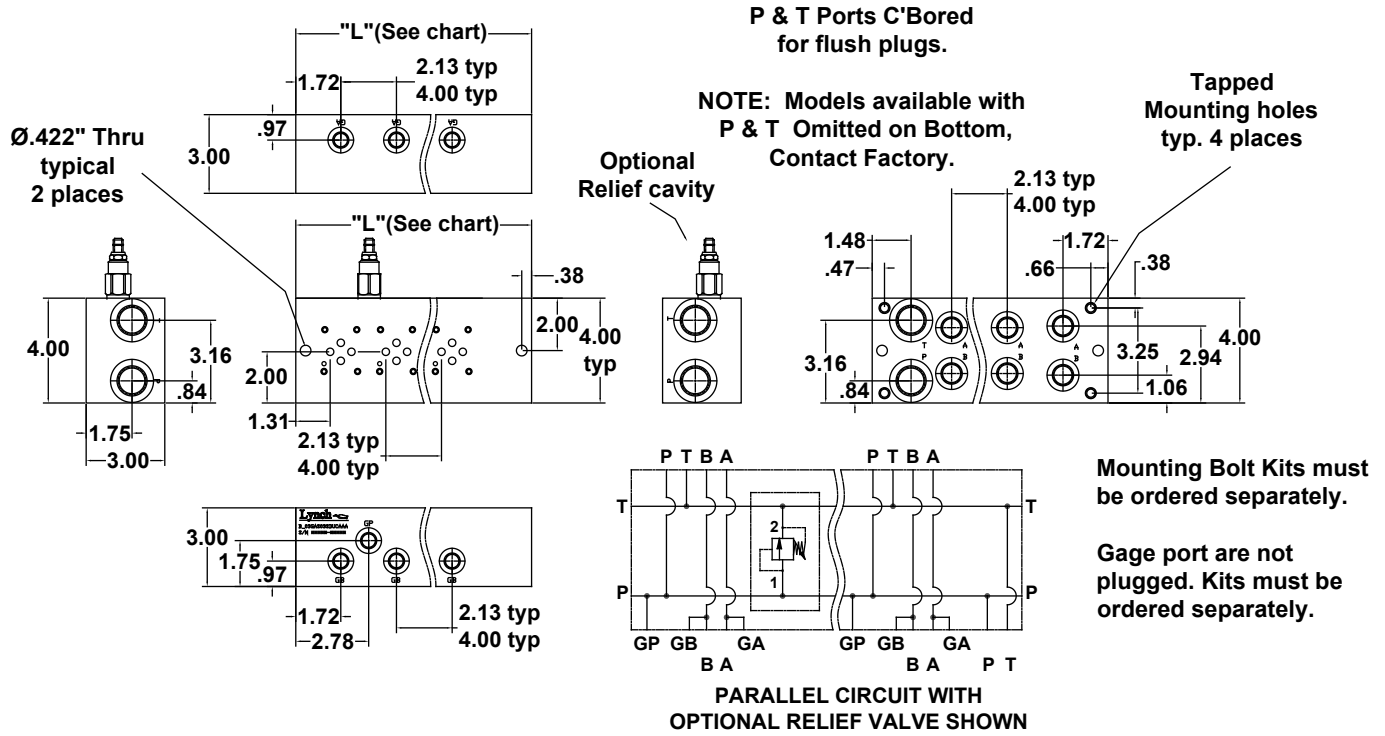


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D03 Standard Flow Bottom Ported Parallel Circuit Manifold

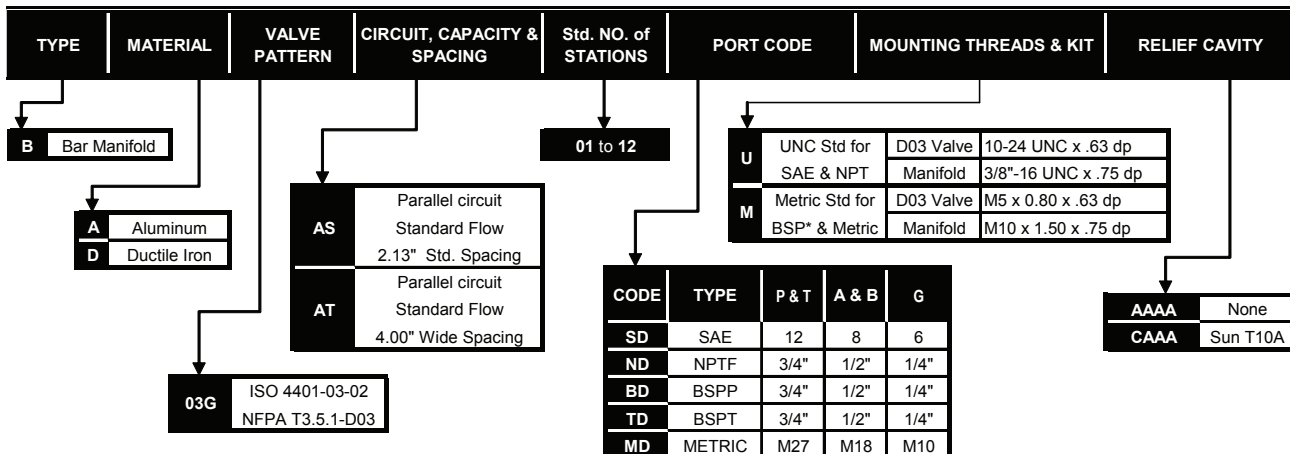


No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12
Dim. "L", 2.125" spacing	4.75	5.25	6.88	9.00	11.13	13.25	15.38	17.50	19.63	21.75	23.88	26.00	28.13
est. weight in lb.- alum	9	10	13	17	21	25	28	32	36	40	44	48	51
est. weight in lb.- iron	24	27	34	44	55	65	75	86	96	106	117	127	137
Dim. "L", 4.00" spacing	-	-	8.75	12.75	16.75	20.75	24.75	28.75	-	-	-	-	-
est. weight in lb.- alum	-	-	17	24	31	38	45	53	-	-	-	-	-
est. weight in lb.- iron	-	-	43	63	82	102	121	140	-	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D03 with 2.125" Spacing & SAE Porting example: **BA03GAS**SDUAAAA**

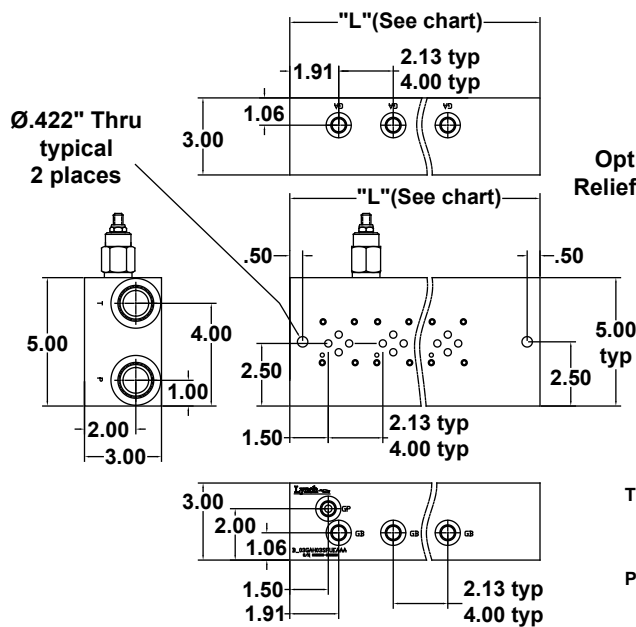


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D03 High Flow Bottom Ported Parallel Circuit Manifold

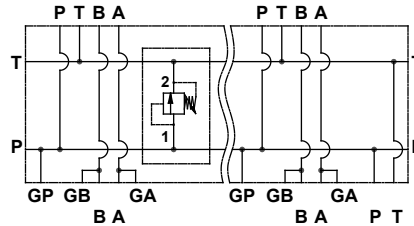
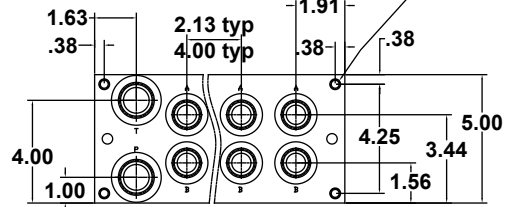


P & T Ports C'Bored
for flush plugs.

NOTE: Models available with
P & T Omitted on Bottom,
Contact Factory.

Tapped
Mounting holes
typ. 4 places

Optional
Relief cavity



PARALLEL CIRCUIT WITH
OPTIONAL RELIEF VALVE SHOWN

Mounting Bolt Kits must
be ordered separately.

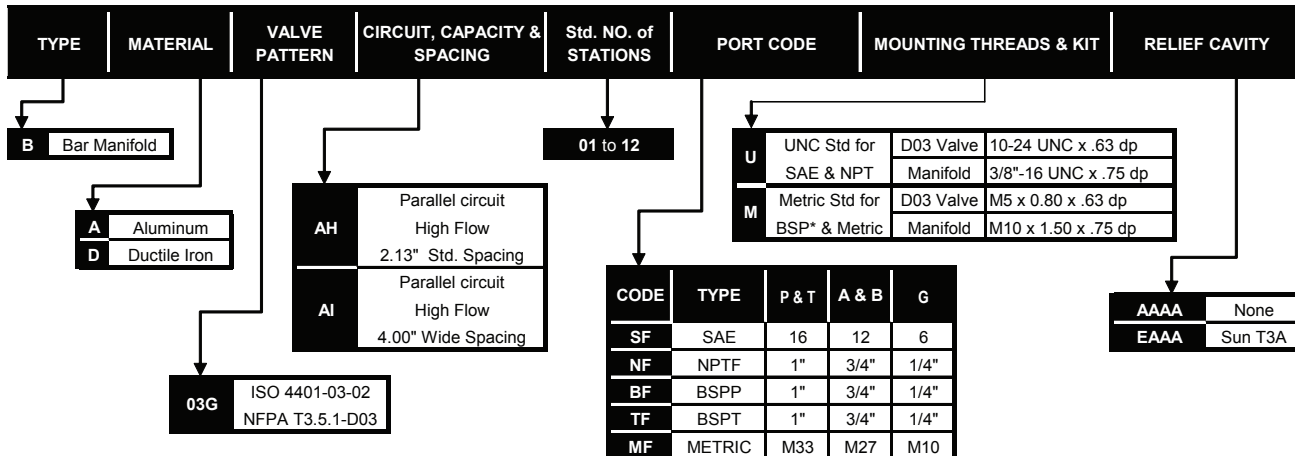
Gage port are not
plugged. Kits must be
ordered separately.

No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12
Dim. "L", 2.125" spacing	5.50	5.75	7.63	9.75	11.88	14.00	16.13	18.25	20.38	22.50	24.63	26.75	28.88
est. weight in lb.- alum	10	11	14	18	22	26	30	34	37	41	45	49	51
est. weight in lb.- iron	27	29	38	48	58	69	79	89	100	110	120	131	137
Dim. "L", 4.00" spacing	-	-	9.50	13.50	17.50	21.50	25.50	29.50	-	-	-	-	-
est. weight in lb.- alum	-	-	18	25	32	39	47	54	-	-	-	-	-
est. weight in lb.- iron	-	-	47	66	86	105	125	144	-	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D03 with 2.125" Spacing & SAE Porting example: BA03GAH**SDUAAAA

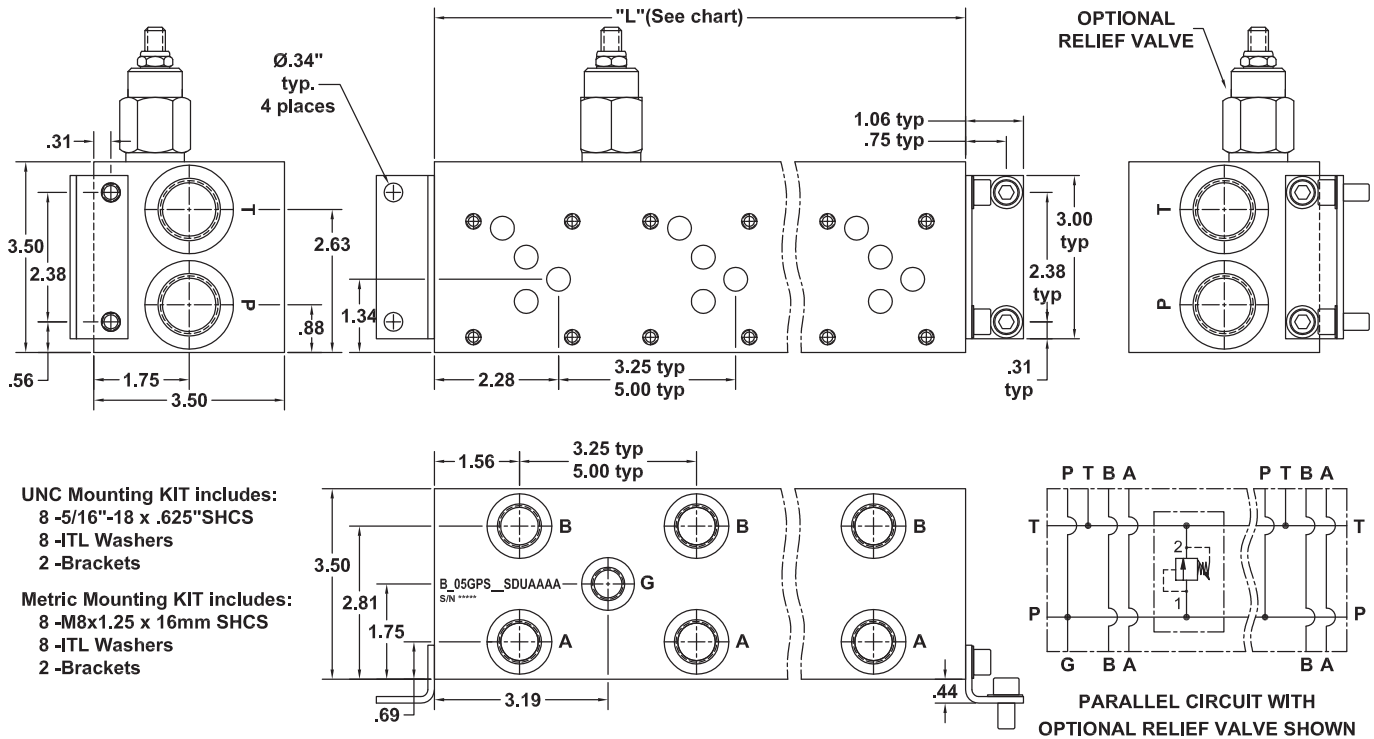


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D05 Standard Flow Parallel Circuit Manifold



No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 3.25" spacing	3.25	4.50	6.50	9.75	13.00	16.25	19.50	22.75	26.00	29.25	32.50	35.75	39.00	42.25	45.50	48.75	52.00
est. weight in lb.- alum	4	5	8	11	14	17	21	24	27	30	34	37	41	44	47	51	55
est. weight in lb.- iron	9	12	17	26	34	43	51	60	68	77	85	94	102	-	-	-	-
Dim. "L", 5.00" spacing	-	-	8.25	13.25	18.25	23.25	28.25	33.25	38.25	43.25	48.25	53.25	58.25	63.25	68.25	-	-
est. weight in lb.- alum	-	-	9	15	20	25	30	35	41	46	50	55	60	65	71	-	-
est. weight in lb.- iron	-	-	22	36	49	62	76	89	102	-	-	-	-	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05 with 3.25" spacing and SAE porting example: **BA05GPS**SDUAAAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY
B Bar Manifold	A Aluminum D Ductile Iron	PS Parallel circuit Standard Flow 3.25" Std. Spacing PT Parallel circuit Standard Flow 5.00" Wide Spacing	01 to 12	U UNC Std for SAE & NPT M Metric Std for BSP* & Metric	D05 Valve Manifold D05 Valve Manifold	1/4"-20 UNC x .75 dp 5/16"-18 UNC x .47 dp M6 x 1.00 x .75 dp M8 x 1.25 x .47 dp	AAAA None EAAA Sun T-3A DAAA Common C10-2
05G ISO 4401-05-04 NFPA T3.5.1-D05				CODE TYPE P & T A & B G			
				SD SAE 12 8 6			
				ND NPTF 3/4" 1/2" 1/4"			
				BD BSPP 3/4" 1/2" 1/4"			
				TD BSPT 3/4" 1/2" 1/4"			
				MD METRIC M27 M18 M10			

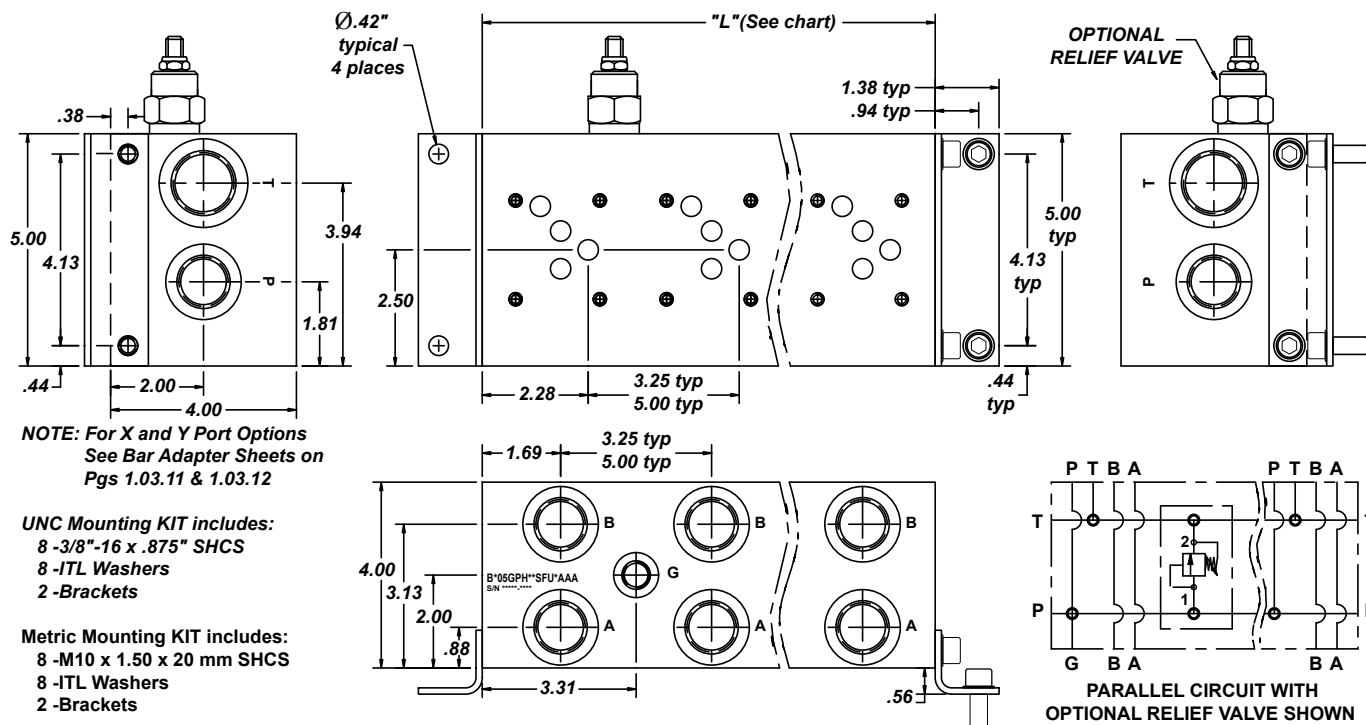
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D05 High Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



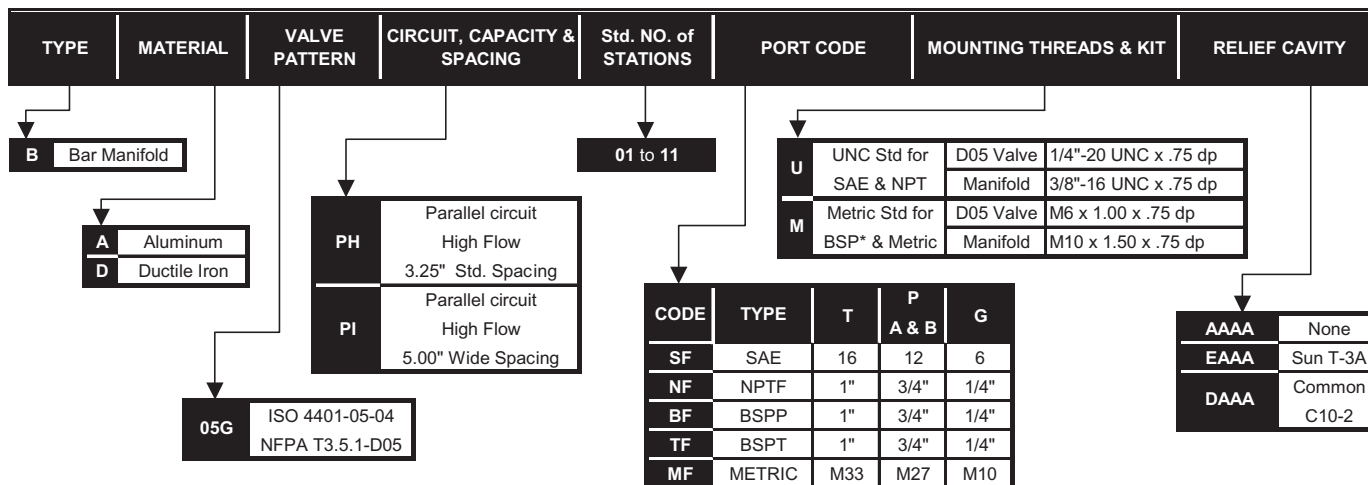
No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 3.25" spacing	3.50	4.50	6.75	10.00	13.25	16.50	19.75	23.00	26.25	29.50	32.75	36.00	39.25	42.50	45.75	49.00	52.25
est. weight in lb.- alum	7	9	13	19	25	30	36	42	48	54	60	66	71	77	83	89	95
est. weight in lb.- iron	18	23	34	49	65	81	97	113	128	144	160	176	192	207	223	239	255
Dim. "L", 5.00" spacing	-	-	8.50	13.50	18.50	23.50	28.50	33.50	38.50	43.50	48.50	53.50	58.50	63.50	68.50	-	-
est. weight in lb.- alum	-	-	16	25	34	43	52	61	70	79	88	97	106	115	124	-	-
est. weight in lb.- iron	-	-	42	66	91	115	139	164	188	212	236	261	285	309	334	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05 with 3.25" Spacing & SAE Porting example: **BA05GPH**SFUAAAA**



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"DUAL TANKS"

"DUAL TANKS"

Page 1.99.01 for Relief Cartridges)

OPTIONAL RELIEF VALVE

COMMON "X" PORT

Ø.42 typical 4 places

"L" (See chart)

1.38 typ
.94 typ

5.00 typ
4.13 typ

5.00
4.13
3.94
1.25
.84
2.00
2.75
4.38
5.00

UNC Mounting KIT Includes:
8 -3/8"-16 x .875" SHCS
8 -JTL Washers
2 -Brackets

Metric Mounting KIT includes:
8 -M10 x 1.50 x 20 mm SHCS
8 -JTL Washers
2 -Brackets

INDEPENDENT "X" PORT

2.44
3.25 typ
5.00 typ

5.00
4.38
3.13
2.00
.88
3.31
1.69
3.25 typ
5.00 typ

5.00
4.13 typ

.44 typ

Y P T a B A X

Y T P a B A X

PARALLEL CIRCUIT WITH COMMON "Y" PORT & OPTIONAL RELIEF AND INDEPENDENT "X" PORT SHOWN

Y P T a B A X

Y T P a B A X

PARALLEL CIRCUIT WITH COMMON "Y" PORT & OPTIONAL COMMON "X" PORT AND RELIEF SHOWN

No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 3.25" spacing	3.50	4.50	6.75	10.00	13.25	16.50	19.75	23.00	26.25	29.50	32.75	36.00	39.25	42.50	45.75	49.00	52.25
est. weight in lb. - alum	9	11	16	23	31	38	45	53	60	67	74	82	89	96	104	111	118
est. weight in lb. - iron	22	28	42	62	81	101	121	140	160	180	200	219	239	259	279	298	318
Dim. "L", 5.00" spacing	-	-	8.50	13.50	18.50	23.50	28.50	33.50	38.50	43.50	48.50	53.50	58.50	63.50	68.50	-	-
est. weight in lb. - alum	-	-	20	31	42	54	65	76	87	99	110	121	132	144	155	-	-
est. weight in lb. - iron	-	-	52	83	113	144	174	204	235	265	295	326	356	387	417	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
 NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

Aluminum D05H with 3.25" Spacing, Common Y & SAE porting example: BA05HPHSFUABAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY	PILOT PORT OPTIONS			
B	Bar Manifold			01 to 11	U M	UNC Std for SAE & NPT Metric Std for BSP* & Metric	D05 Valve Manifold	1/4"-20 UNC x 0.75" dp 3/8"-16 UNC x 0.75" dp M6 x 1.00 x 0.75" dp M10 x 1.50 x 0.75" dp			
A D	Aluminum Ductile Iron		PH PI					BAA CAA* DAA			
05H	(USA Standard) NFPA T3.5.1-D05 Alt B										
					CODE	TYPE	T	P A & B	G	Y	X Optional
					SF	SAE	16	12	6	6	6
					NF	NPTF	1"	3/4"	1/4"	3/8"	3/8"
					BF	BSPP	1"	3/4"	1/4"	3/8"	3/8"
					TF	BSPT	1"	3/4"	1/4"	3/8"	3/8"
					MF	METRIC	M33	M27	M10	M14	M14
</											

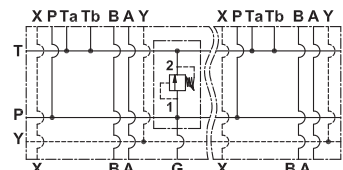
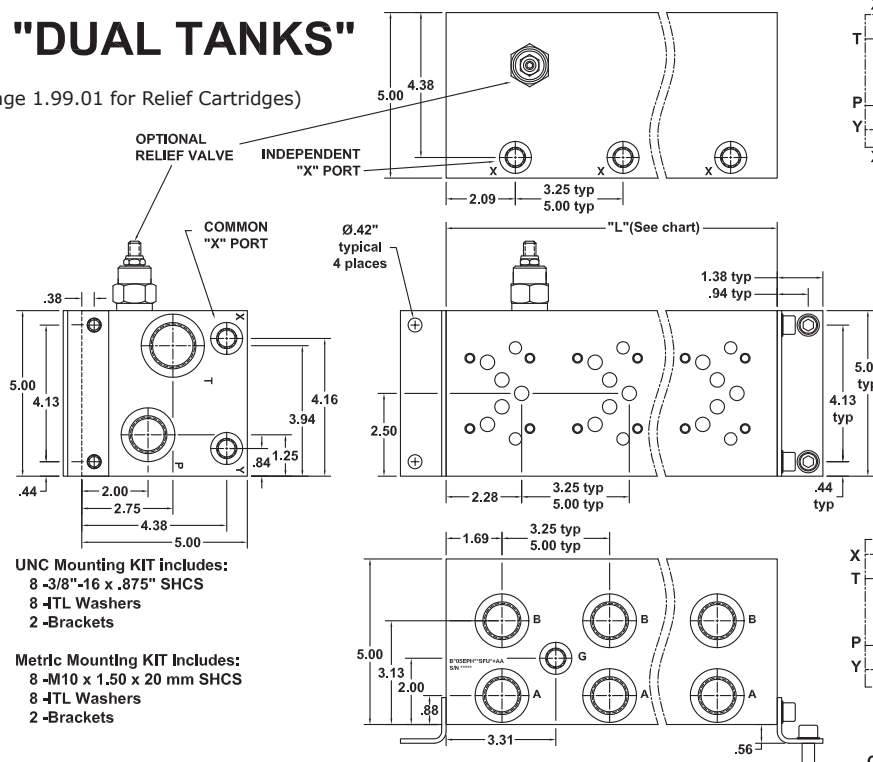
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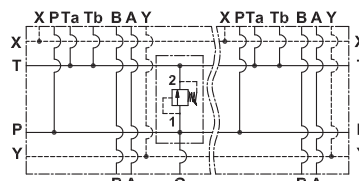
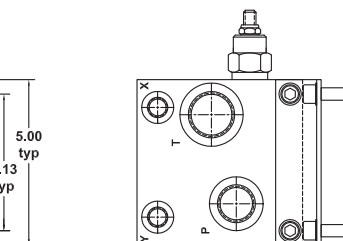
D05HE High Flow Parallel Circuit Manifold with X&Y

"DUAL TANKS"

(See Page 1.99.01 for Relief Cartridges)



PARALLEL CIRCUIT WITH COMMON
"Y" PORT & OPTIONAL RELIEF
AND INDEPENDENT "X" PORT SHOWN



PARALLEL CIRCUIT WITH COMMON
"Y" PORT & OPTIONAL
COMMON "X" PORT AND REF. SHOWN

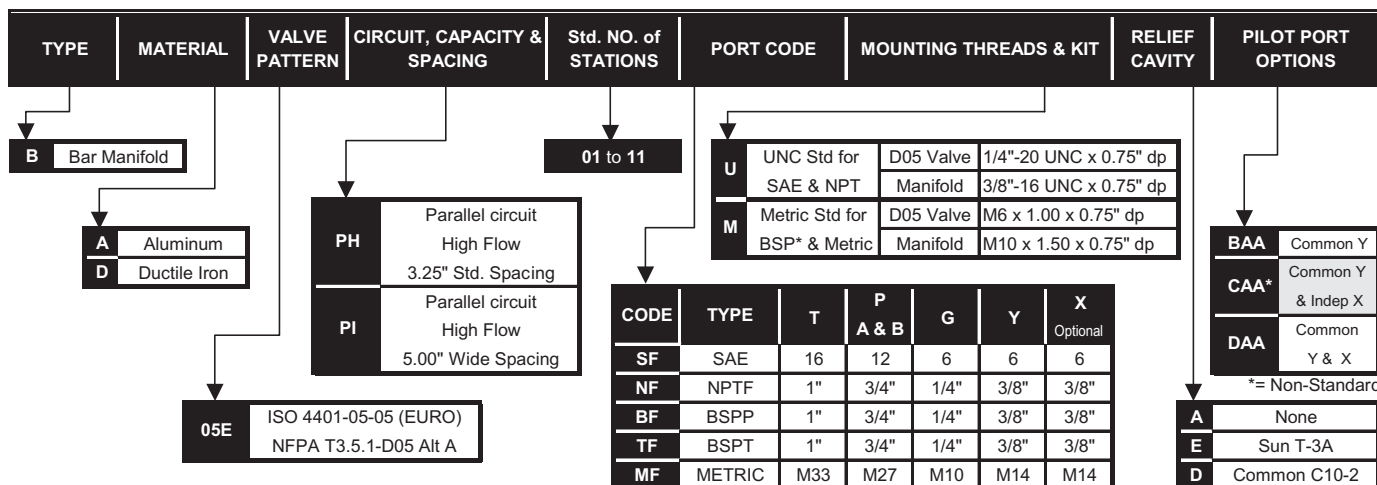
No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 3.25" spacing	3.50	4.50	6.75	10.00	13.25	16.50	19.75	23.00	26.25	29.50	32.75	36.00	39.25	42.50	45.75	49.00	52.25
est. weight in lb. - alum	9	11	16	23	31	38	45	53	60	67	74	82	89	96	104	111	118
est. weight in lb. - iron	22	28	42	62	81	101	121	140	160	180	200	219	239	259	279	298	318
Dim. "L", 5.00" spacing	-	-	8.50	13.50	18.50	23.50	28.50	33.50	38.50	43.50	48.50	53.50	58.50	63.50	68.50	-	-
est. weight in lb. - alum	-	-	20	31	42	54	65	76	87	99	110	121	132	144	155	-	-
est. weight in lb. - iron	-	-	52	83	113	144	174	204	235	265	295	326	356	387	417	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05HE with 3.25" Spacing, Common Y & SAE porting example: BA05EPHSFUABAA**



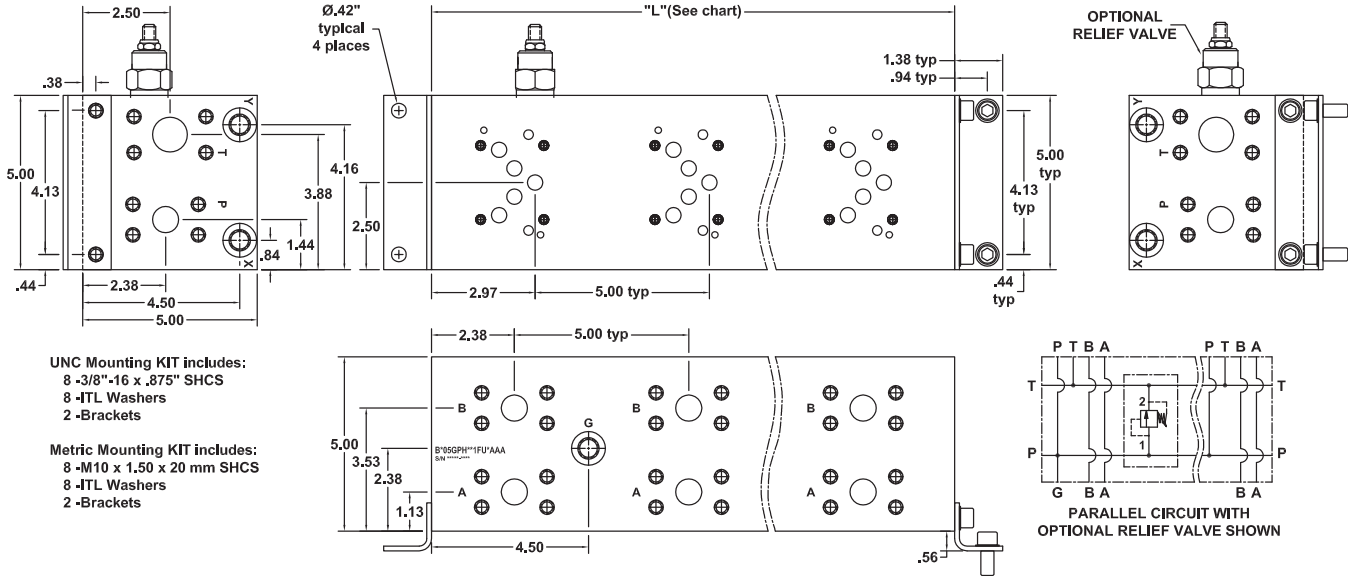
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D05 High Flow Parallel Circuit with Flange Ports

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	1*	2	3	4	5	6	7	8
Dim. "L", 5.00" spacing	5.00	6.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00
est. weight in lb.- alum	12	14	23	35	46	57	68	80	91
est. weight in lb.- iron	31	37	62	92	122	153	183	213	244

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY

NOTES:

- "05G" Valve Pattern has Single Tank Gallery and No Pilot Ports
- "05T" Valve Pattern has Dual Tank Galleries and No Pilot Ports
- "05H" Valve Pattern has Dual Tank Galleries and Pilot Ports as Shown
- "05E" Valve Pattern has Dual Tank Galleries and Pilot Ports Opposite to what is Shown

PART NUMBER SYSTEM

Aluminum D05H with 5.00" Spacing, Common Y & Flange porting example: BA05HPI**1FUABAA

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY	PILOT PORT OPTIONS
B	Bar Manifold			01 to 08	U M	UNC Std with SAE Ports D05 Valve Manifold 1/4"-20 UNC x 0.75" dp 3/8"-16 UNC x 0.75" dp Metric Std with Metric Ports D05 Valve Manifold M6 x 1.00 x 0.75" dp M10 x 1.50 x 0.75" dp		AAA BAA DAA
A	Aluminum		PI Parallel circuit High Flow 5.00" Wide Spacing		CODE 1F	TYPE SAE CODE 61		None Common Y Common Y & X
D	Ductile Iron				T P G* Y & X*	1" 3/4" 6 M10 M14		None Sun T-3A Common C16-2
			05G or T 05H 05E					

ISO 4401-05-04
NFPA T3.5.1-D05
(USA Standard)
NFPA T3.5.1-D05 Alt B
ISO 4401-05-05 (EURO)
NFPA T3.5.1-D05 Alt A

* Gauge & Pilot Ports determined by Mounting Threads

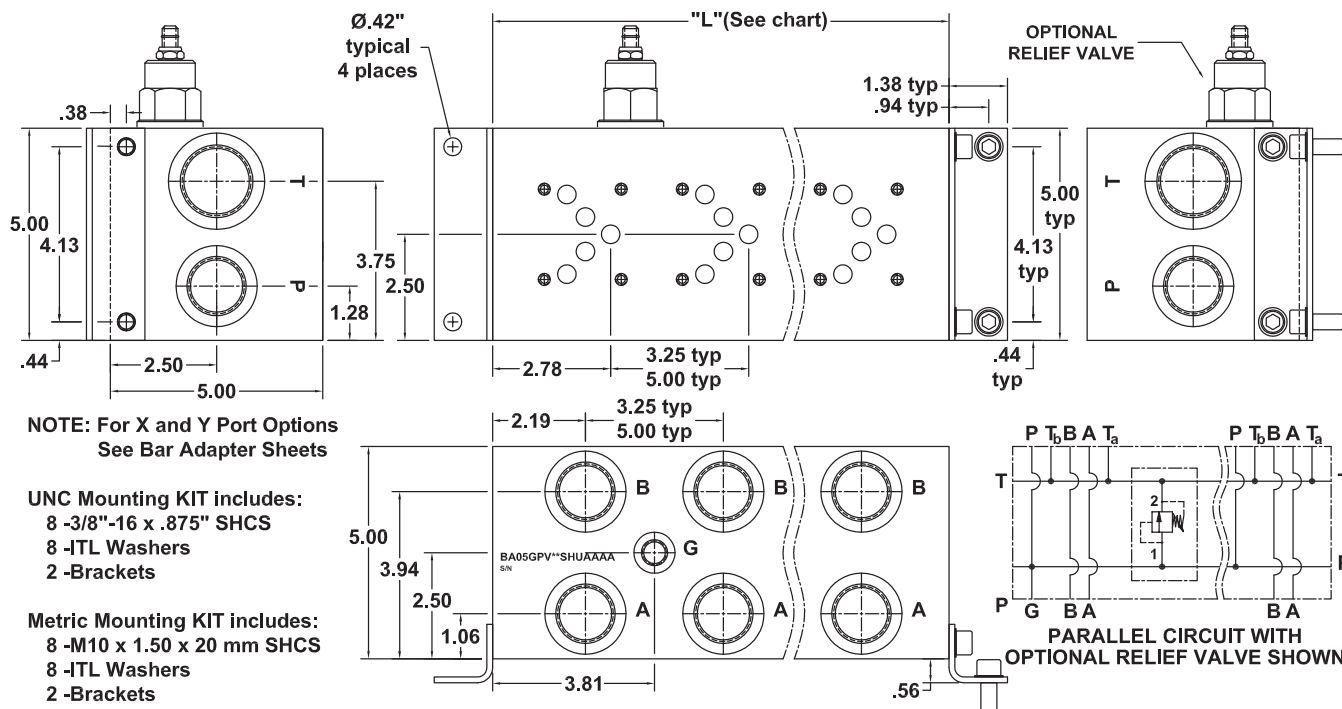
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D05 Very High Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11
Dim. "L", 3.25" spacing	4.25	5.50	7.50	10.75	14.00	17.25	20.50	23.75	27.00	30.25	33.50	36.75
est. weight in lb.- alum	11	14	19	26	34	42	49	57	65	73	80	88
est. weight in lb.- iron	28	36	49	70	91	111	132	153	174	195	216	224
Dim. "L", 5.00" spacing	-	-	9.25	14.25	19.25	24.25	29.25	34.25	39.25	-	-	-
est. weight in lb.- alum	-	-	23	35	46	58	70	82	94	-	-	-
est. weight in lb.- iron	-	-	60	92	124	156	188	220	252	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY
& GAUGE PORT

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

- NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

PART NUMBER SYSTEM

Aluminum D05 with 3.25" Spacing & SAE Porting example: **BA05GPV**SHUAAAA**

[illegible]

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(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11
Dim. "L", 3.25" spacing	4.25	5.50	7.50	10.75	14.00	17.25	20.50	23.75	27.00	30.25	33.50	36.75
est. weight in lb.- alum	13	16	22	31	41	50	59	68	78	87	96	105
est. weight in lb.- iron	33	43	58	83	108	133	158	184	209	234	259	284
Dim. "L", 5.00" spacing	-	-	9.25	14.25	19.25	24.25	29.25	34.25	39.25	-	-	-
est. weight in lb.- alum	-	-	27	41	56	70	84	98	113	-	-	-
est. weight in lb.- iron	-	-	72	110	149	187	226	264	303	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

& GAUGE PORT

- NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

Aluminum D05H with 3.25" Spacing, Common Y & SAE porting example: BA05HPVSHUABAA**

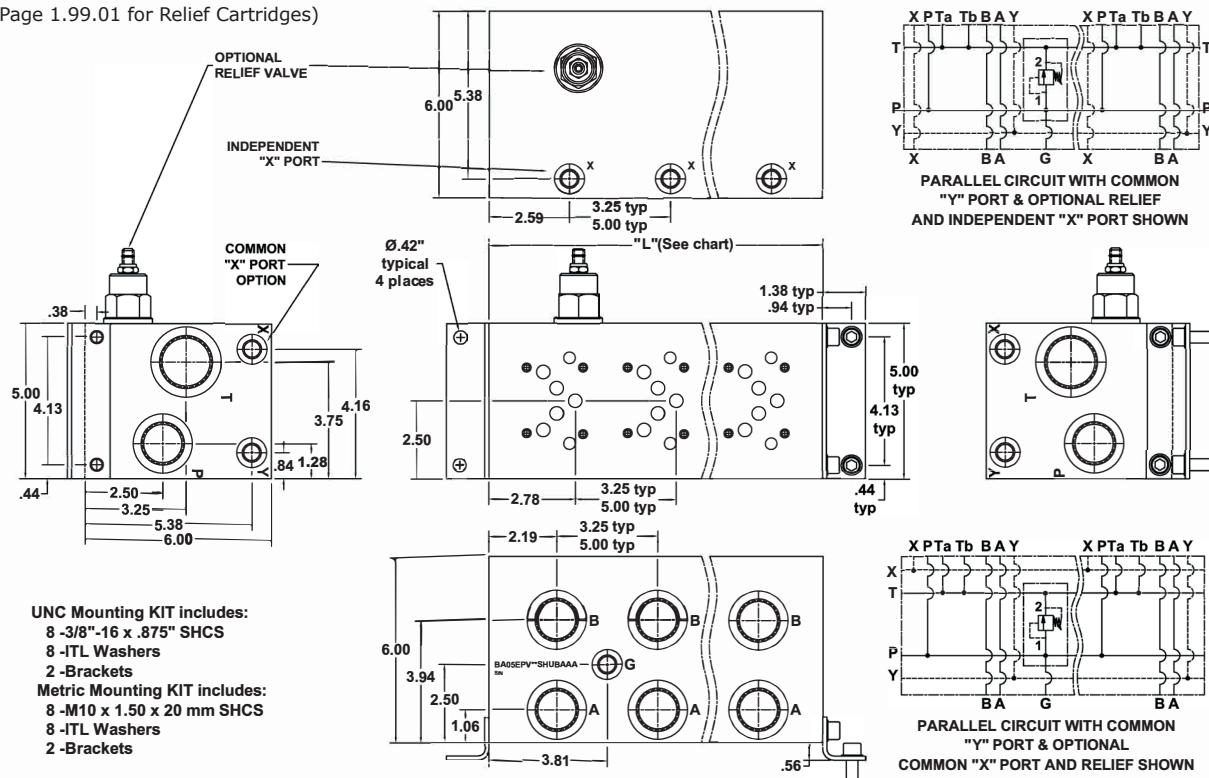
*= Non-Standard

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D05HE Very High Flow Parallel Circuit with X&Y

(See Page 1.99.01 for Relief Cartridges)

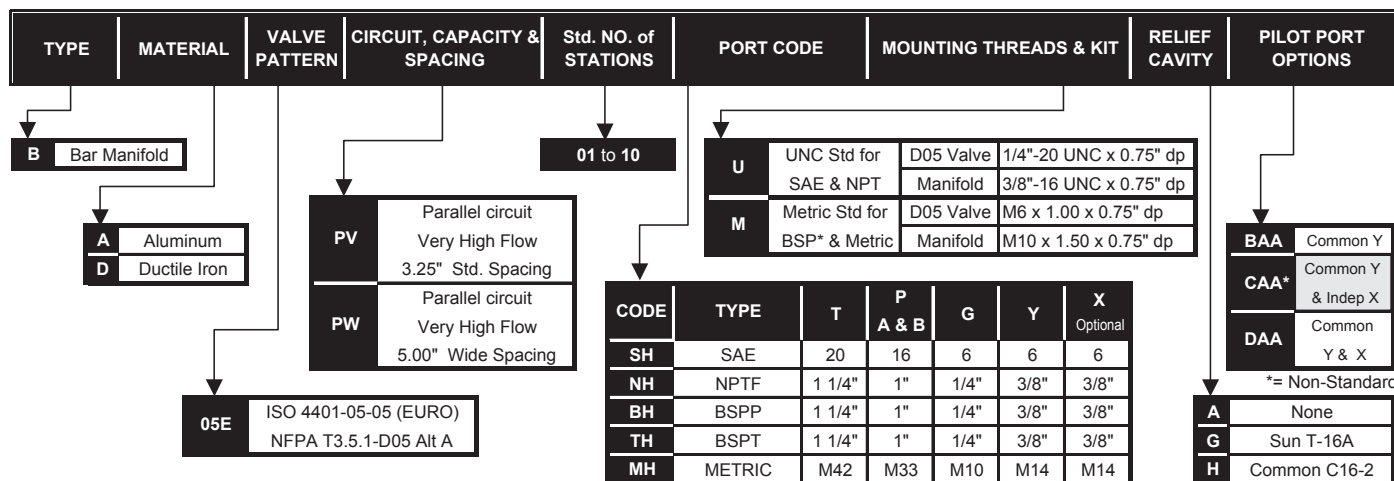


No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11
Dim. "L", 3.25" spacing	4.25	5.50	7.50	10.75	14.00	17.25	20.50	23.75	27.00	30.25	33.50	36.75
est. weight in lb.- alum	13	16	22	31	41	50	59	68	78	87	96	105
est. weight in lb.- iron	33	43	58	83	108	133	158	184	209	234	259	284
Dim. "L", 5.00" spacing	-	-	9.25	14.25	19.25	24.25	29.25	34.25	39.25	-	-	-
est. weight in lb.- alum	-	-	27	41	56	70	84	98	113	-	-	-
est. weight in lb.- iron	-	-	72	110	149	187	226	264	303	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD
SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05HE with 3.25" Spacing, Common Y & SAE porting example: **BA05EPV**SHUABAA**



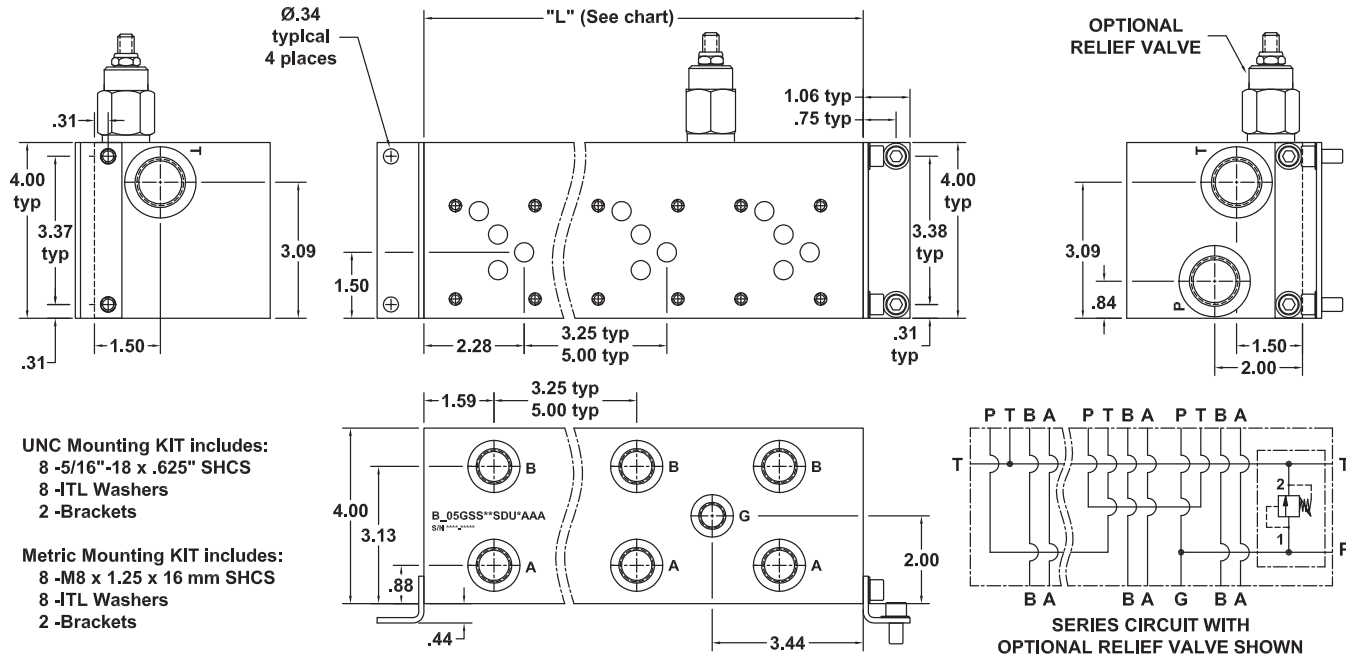
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D05 Standard Flow Series Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



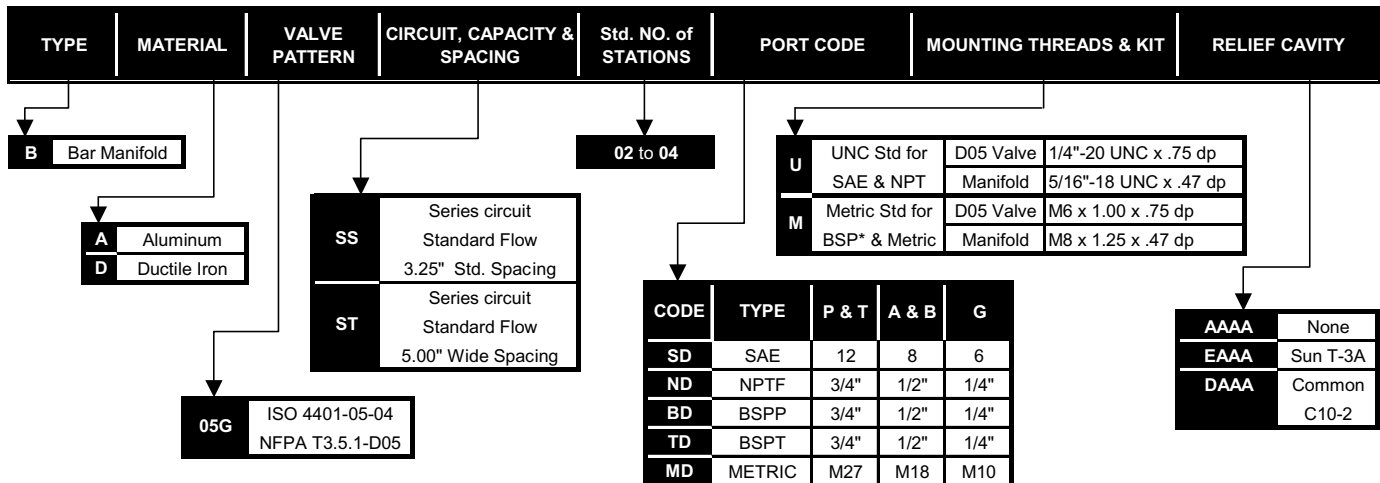
No. of Stations	2	3	4	5	6
Dim. "L", 3.25" spacing	6.75	10.00	13.25	16.50	19.75
est. weight in lb.- alum	10	15	20	25	29
est. weight in lb.- iron	27	40	52	65	78
Dim. "L", 5.00" spacing	8.50	13.50	18.50	23.50	28.50
est. weight in lb.- alum	13	20	27	35	42
est. weight in lb.- iron	34	53	73	92	112

SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

- NOTES: 1) FOR PILOT PORT OPTIONS SEE D05 BAR MANIFOLD ADAPTER SHEETS ON PAGES 1.03.11 & 1.03.12
- 2) SPECIAL VERSION WITH ALL SAE 12 PORTS IS AVAILABLE WITH SAME DIMENSIONS BY USING PORT CODE "SF"
- 3) P-T MAIN SYSTEM RELIEF AVAILABLE AS A STANDARD OPTION

PART NUMBER SYSTEM

Aluminum D05 with 3.25" spacing and SAE porting example: **BA05GSS**SDUAAAA**



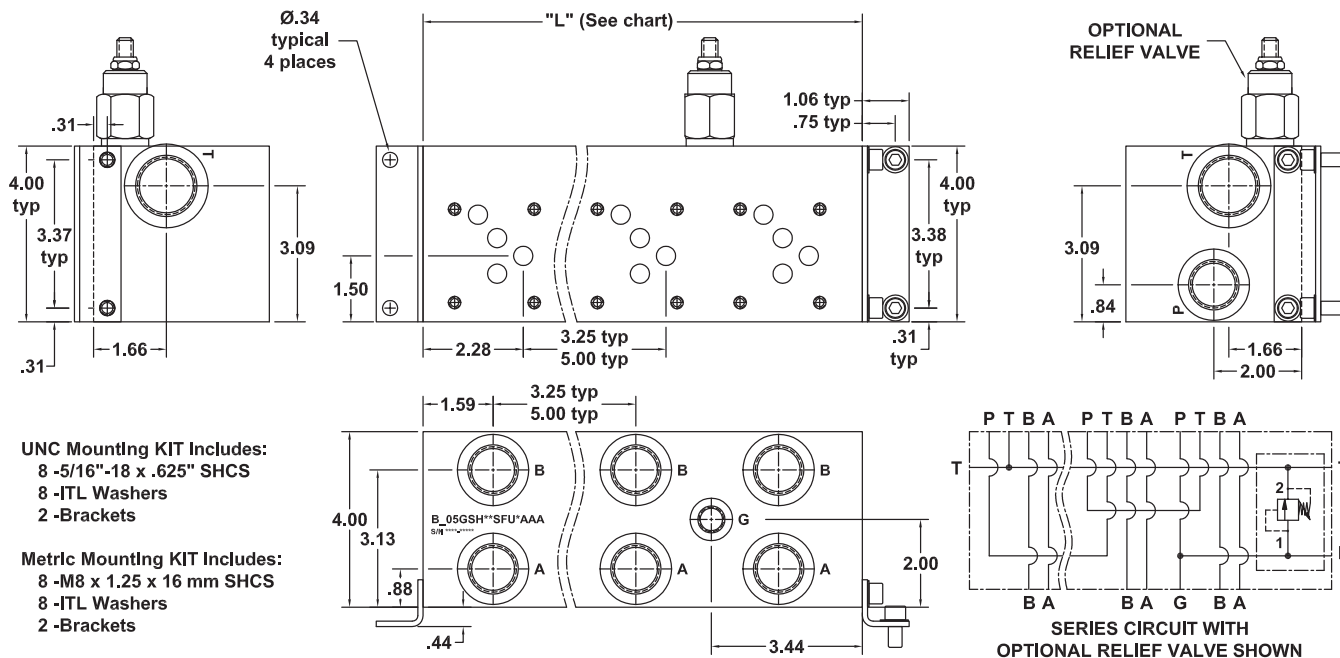
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D05 High Flow Series Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



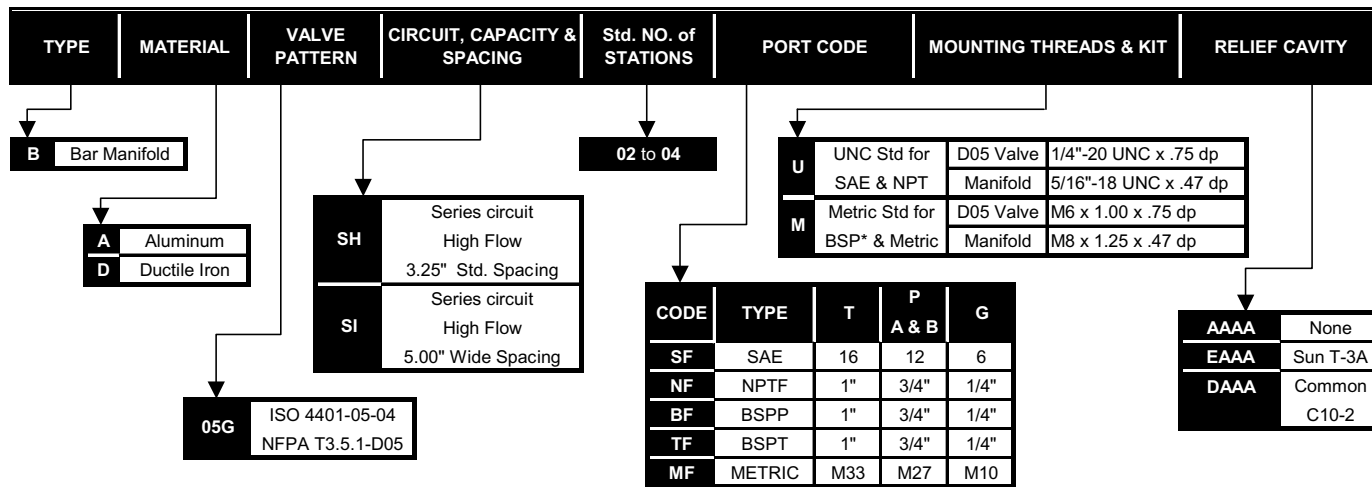
No. of Stations	2	3	4	5	6
Dim. "L", 3.25" spacing	6.75	10.00	13.25	16.50	19.75
est. weight in lb.- alum	10	15	20	25	29
est. weight in lb.- iron	27	40	52	65	78
Dim. "L", 5.00" spacing	8.50	13.50	18.50	23.50	28.50
est. weight in lb.- alum	13	20	27	35	42
est. weight in lb.- iron	34	53	73	92	112

SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

- NOTES:** 1) FOR PILOT PORT OPTIONS SEE D05 BAR MANIFOLD ADAPTER SHEETS ON PAGES 1.03.11 & 1.03.12
2) P-T MAIN SYSTEM RELIEF AVAILABLE AS A STANDARD OPTION

PART NUMBER SYSTEM

Aluminum D05 with 3.25" spacing and SAE porting example: **BA05GSH**SFUAAAA**

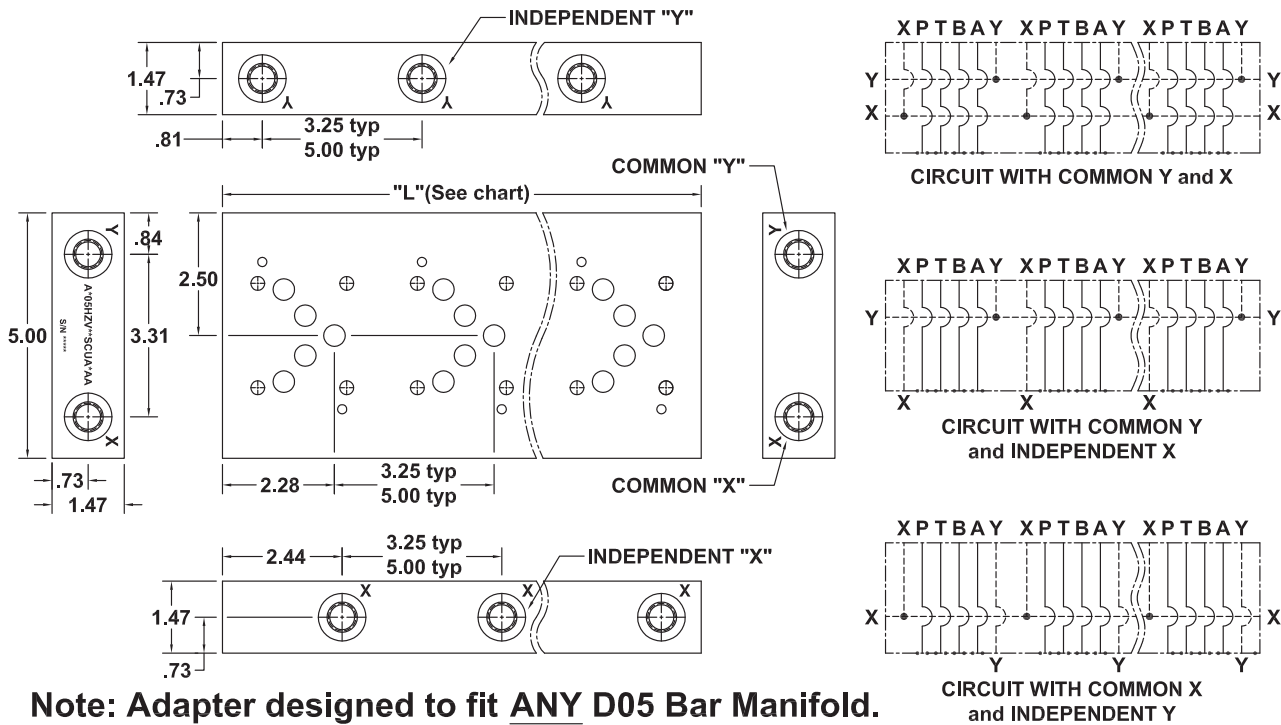


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D05H Pilot Port Adapter for Bar Manifolds

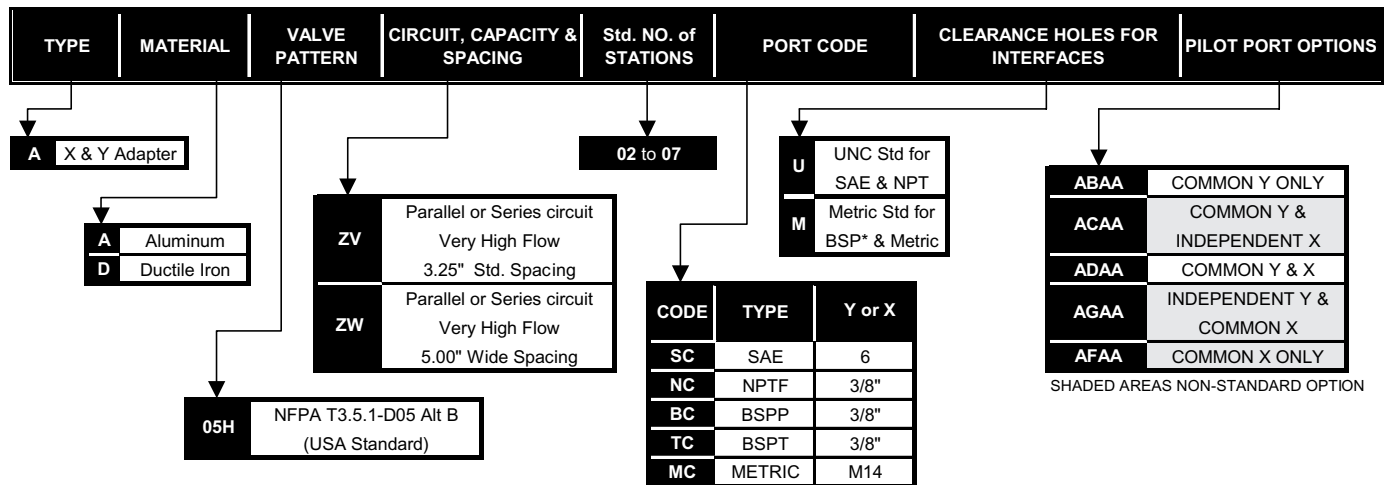


No. of Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 3.25" spacing	6.50	9.75	13.00	16.25	19.50	22.75	26.00	29.25	32.50	35.75	39.00	42.25	45.50	48.75	52.00
est. weight in lb.- alum	4	7	9	11	13	15	18	20	22	24	26	29	31	33	35
est. weight in lb.- iron	12	18	24	30	36	41	47	53	59	65	71	77	83	89	95
Dim. "L", 5.00" spacing	8.25	13.25	18.25	23.25	28.25	33.25	38.25	43.25	48.25	53.25	58.25	63.25	68.25	-	-
est. weight in lb.- alum	6	9	12	16	19	22	26	29	33	36	39	43	46	-	-
est. weight in lb.- iron	15	24	33	42	51	61	70	79	88	97	106	115	124	-	-

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05H with 3.25" Spacing, Common Y with SAE Porting example : AA05HZV**SCUABAA

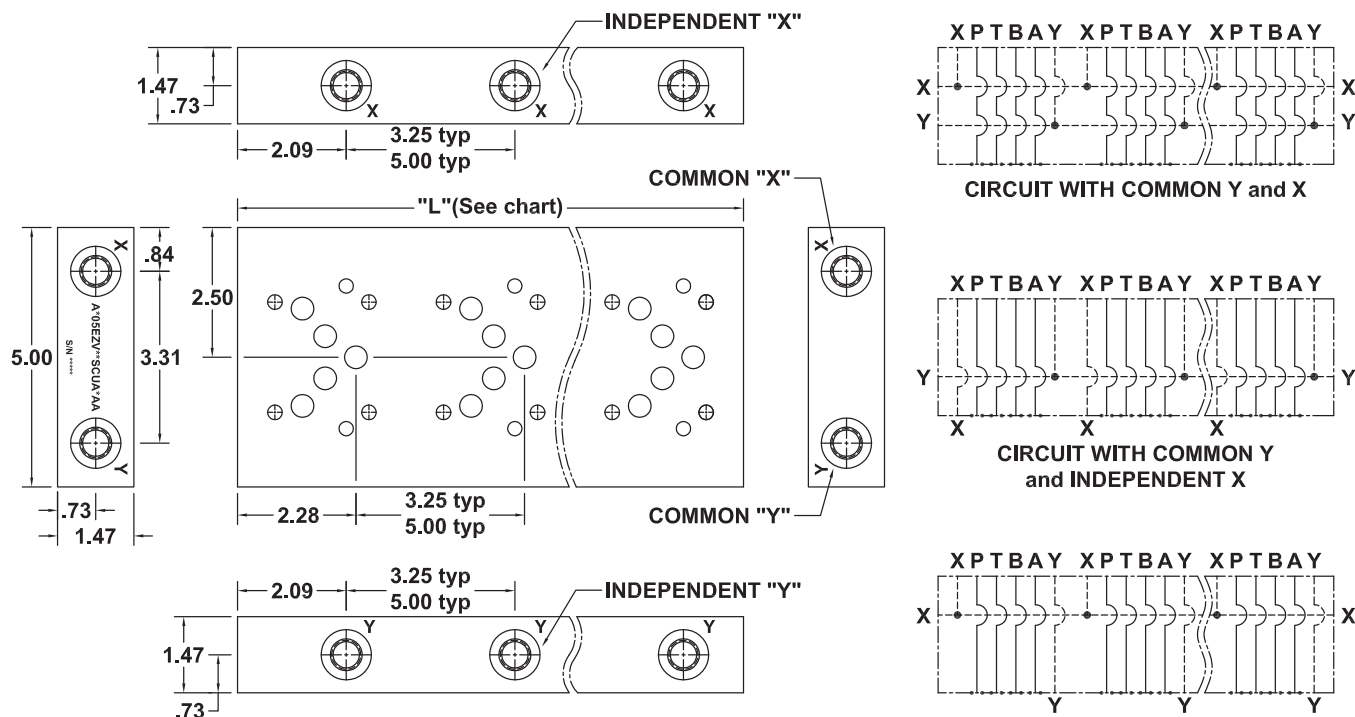


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D05HE Pilot Port Adapter for Bar Manifolds



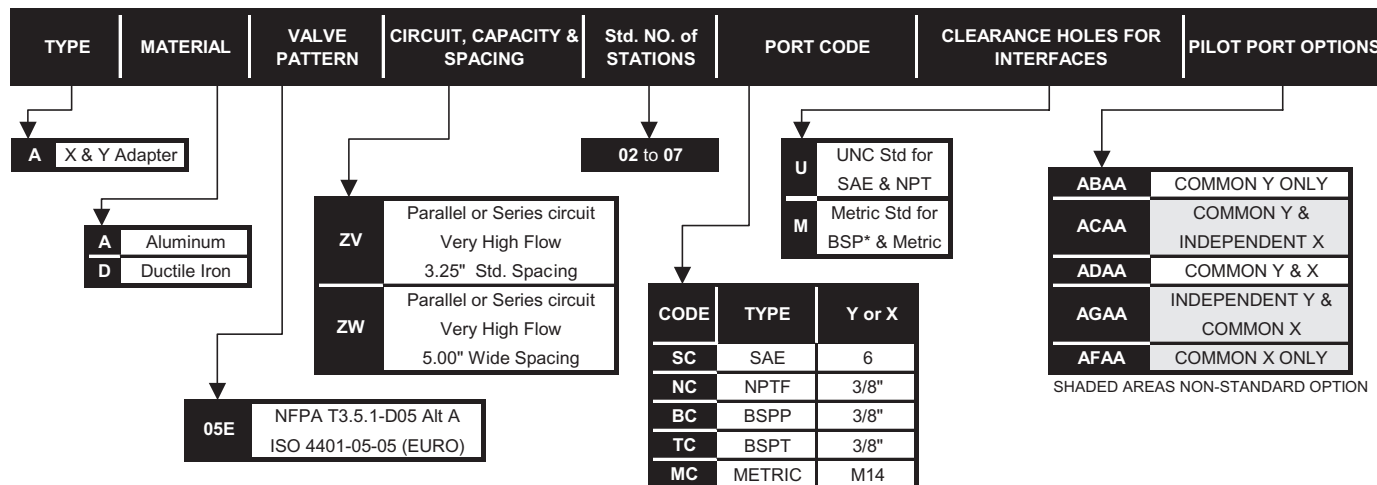
Note: Adapter designed to fit ANY D05 Bar Manifold.

No. of Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dim. "L", 3.25" spacing	6.50	9.75	13.00	16.25	19.50	22.75	26.00	29.25	32.50	35.75	39.00	42.25	45.50	48.75	52.00
est. weight in lb.- alum	4	7	9	11	13	15	18	20	22	24	26	29	31	33	35
est. weight in lb.- iron	12	18	24	30	36	41	47	53	59	65	71	77	83	89	95
Dim. "L", 5.00" spacing	8.25	13.25	18.25	23.25	28.25	33.25	38.25	43.25	48.25	53.25	58.25	63.25	68.25	-	-
est. weight in lb.- alum	6	9	12	16	19	22	26	29	33	36	39	43	46	-	-
est. weight in lb.- iron	15	24	33	42	51	61	70	79	88	97	106	115	124	-	-

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05HE with 3.25" Spacing, Common Y with SAE Porting example : **AA05EZV**SCUABAA**



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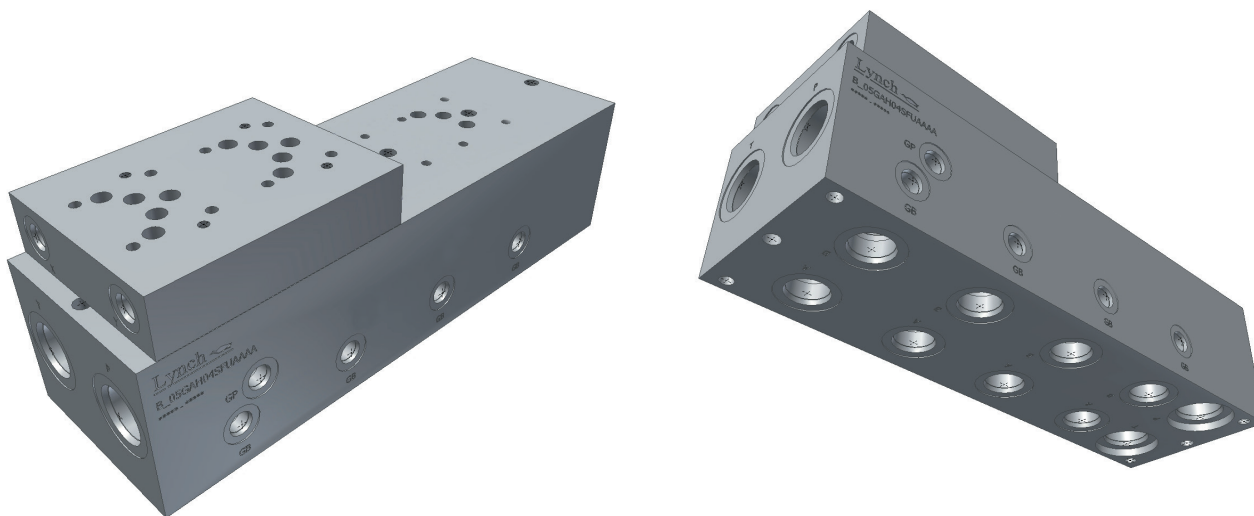
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Flexible Assemblies with D05 Pilot Port Adapters

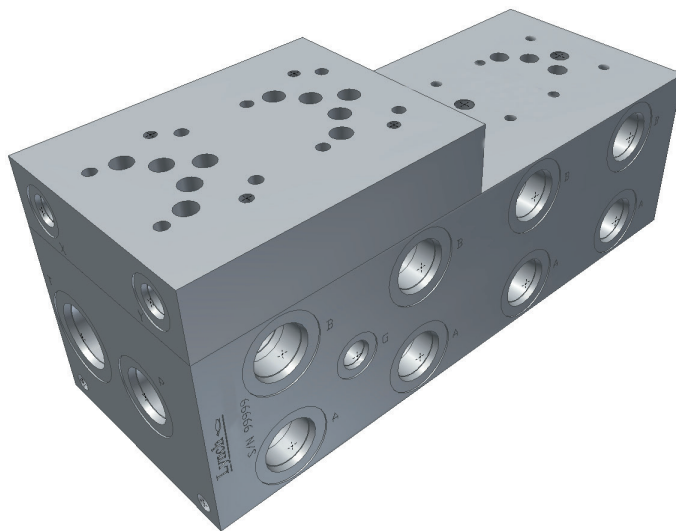
Convert any standard D05 non piloted manifold using the pilot port adapters.
Only order the number of stations you require for your high flow valves.

Reduce your costs and inventory levels with our flexible assemblies.

Example #1: B*05GAH04SFUAAAA -Plus- A*05EZV02SCUADAA



Example #2: B*05GPH04SFUAAAA -Plus- A*05EZV02SCUADAA

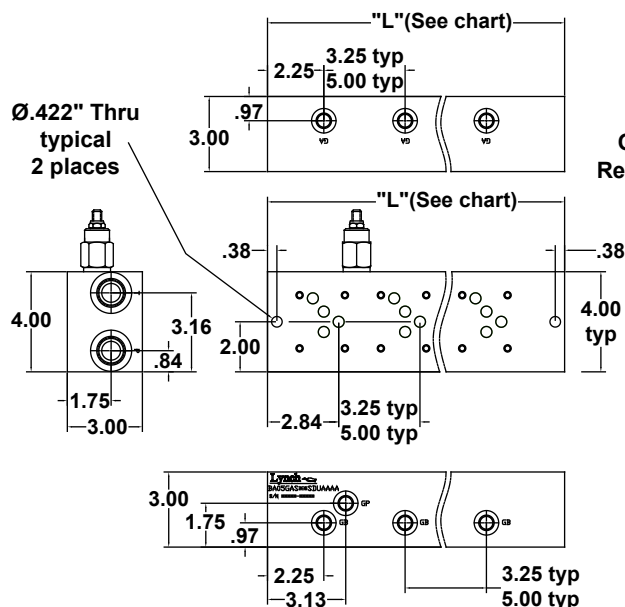


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D05 Standard Flow Bottom Ported Parallel Circuit Manifolds

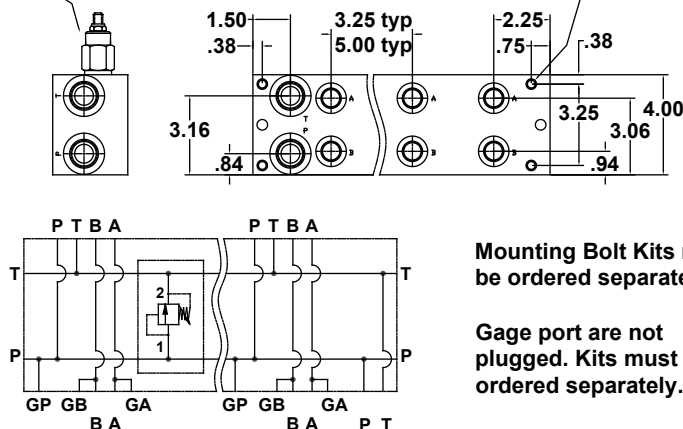


P & T Ports C'Bored
for flush plugs.

NOTE: Models available with
P & T Omitted on Bottom,
Contact Factory.

Optional
Relief cavity

Tapped
Mounting holes
typ. 4 places



Mounting Bolt Kits must
be ordered separately.

Gage port are not
plugged. Kits must be
ordered separately.

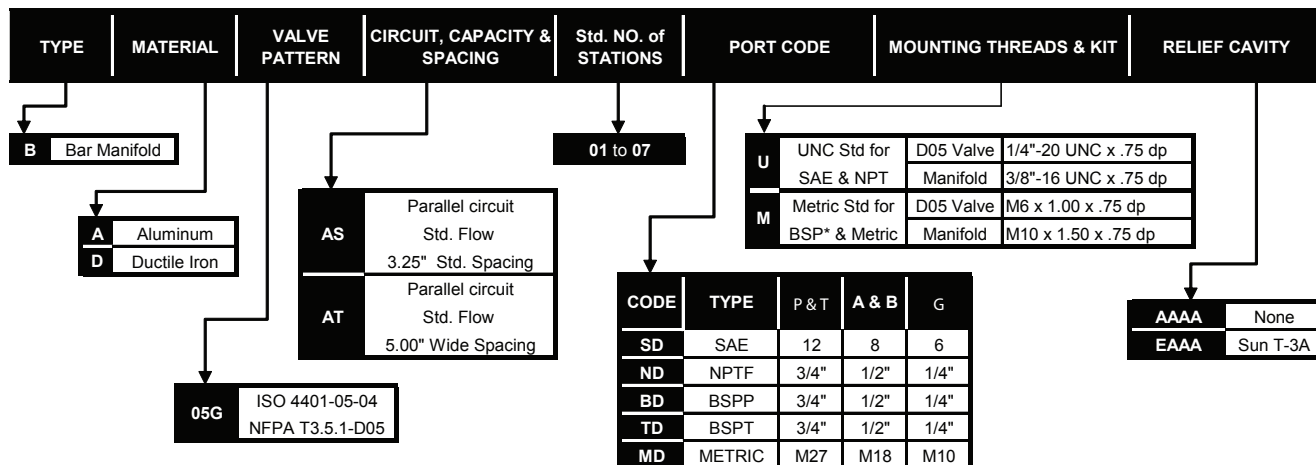
PARALLEL CIRCUIT WITH
OPTIONAL RELIEF VALVE SHOWN

No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11
Dim. "L", 3.25" spacing	5.38	6.00	8.63	11.88	15.13	18.38	21.63	24.88	28.13	31.38	34.63	37.88
est. weight in lb.- alum	10	12	16	22	28	34	40	46	51	57	63	69
est. weight in lb.- iron	27	30	43	58	74	90	106	122	137	153	169	185
Dim. "L", 5.00" spacing	-	-	10.38	15.38	20.38	25.38	30.38	35.38	-	-	-	-
est. weight in lb.- alum	-	-	19	28	37	46	55	64	-	-	-	-
est. weight in lb.- iron	-	-	51	75	100	124	148	173	-	-	-	-

* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT
NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05 with 3.25" Spacing & SAE Porting example: BA05GAS**SFUAAAA

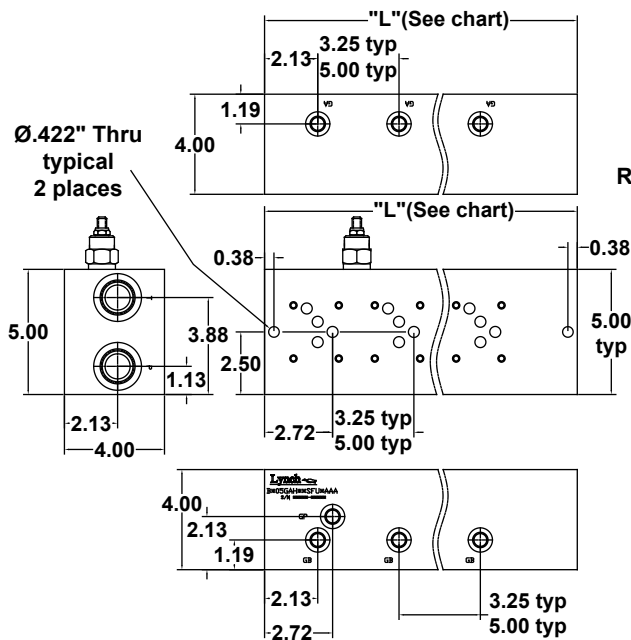


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D05 High Flow Bottom Ported Parallel Circuit Manifold

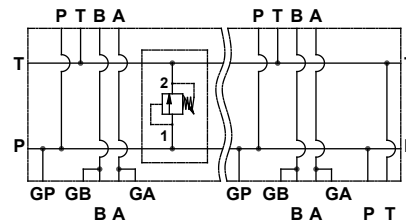
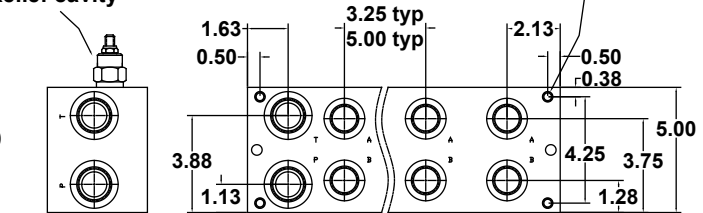


P & T Ports C'Bored
for flush plugs.

NOTE: Models available with
P & T Omitted on Bottom,
Contact Factory.

Tapped
Mounting holes
typ. 4 places

Optional
Relief cavity



Mounting Bolt Kits must
be ordered separately.

Gage port are not
plugged. Kits must be
ordered separately.

PARALLEL CIRCUIT WITH
OPTIONAL RELIEF VALVE SHOWN

No. of Stations	1	1*	2	3	4	5	6	7	8	9	10	11
Dim. "L", 3.25" spacing	6.00	7.00	9.25	12.50	15.75	19.00	22.25	25.50	28.75	32.00	35.25	38.50
est. weight in lb.- alum	12	14	17	23	29	35	41	47	53	58	64	70
est. weight in lb.- iron	30	38	46	62	77	93	109	125	140	156	172	188
Dim. "L", 5.00" spacing	-	-	11.00	16.00	21.00	26.00	31.00	36.00	-	-	-	-
est. weight in lb.- alum	-	-	21	30	39	48	57	66	-	-	-	-
est. weight in lb.- iron	-	-	54	79	103	127	151	176	-	-	-	-

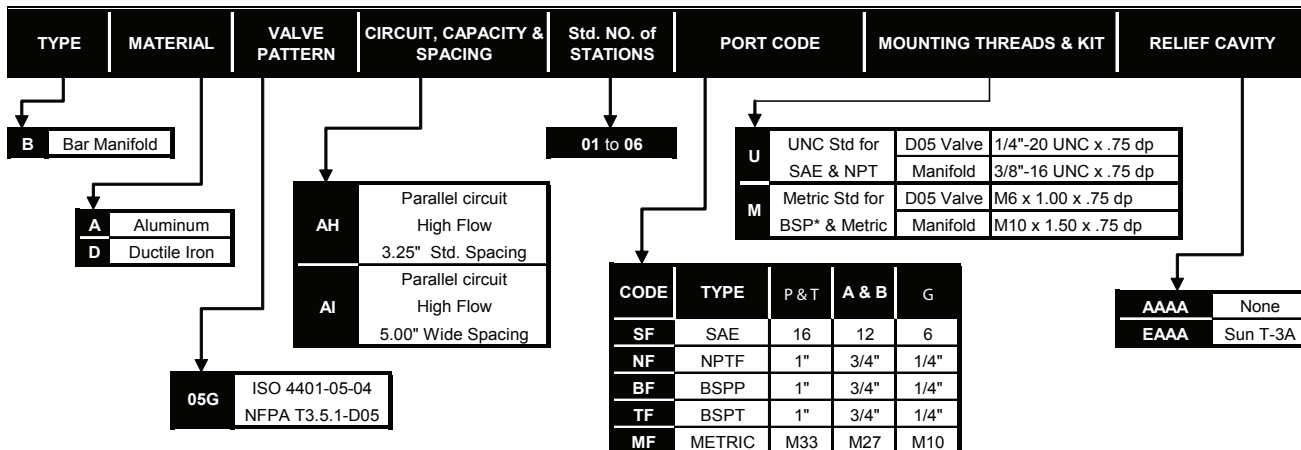
* DIMENSIONS FOR 1 STATION WITH RELIEF CAVITY & GAUGE PORT

NO GAUGE PORT SUPPLIED WITH SINGLE STATION MANIFOLD

SHADED AREA AVAILABLE ON SPECIAL ORDER ONLY

PART NUMBER SYSTEM

Aluminum D05 with 3.25" Spacing & SAE Porting example: BA05GAH**SFUAAAA



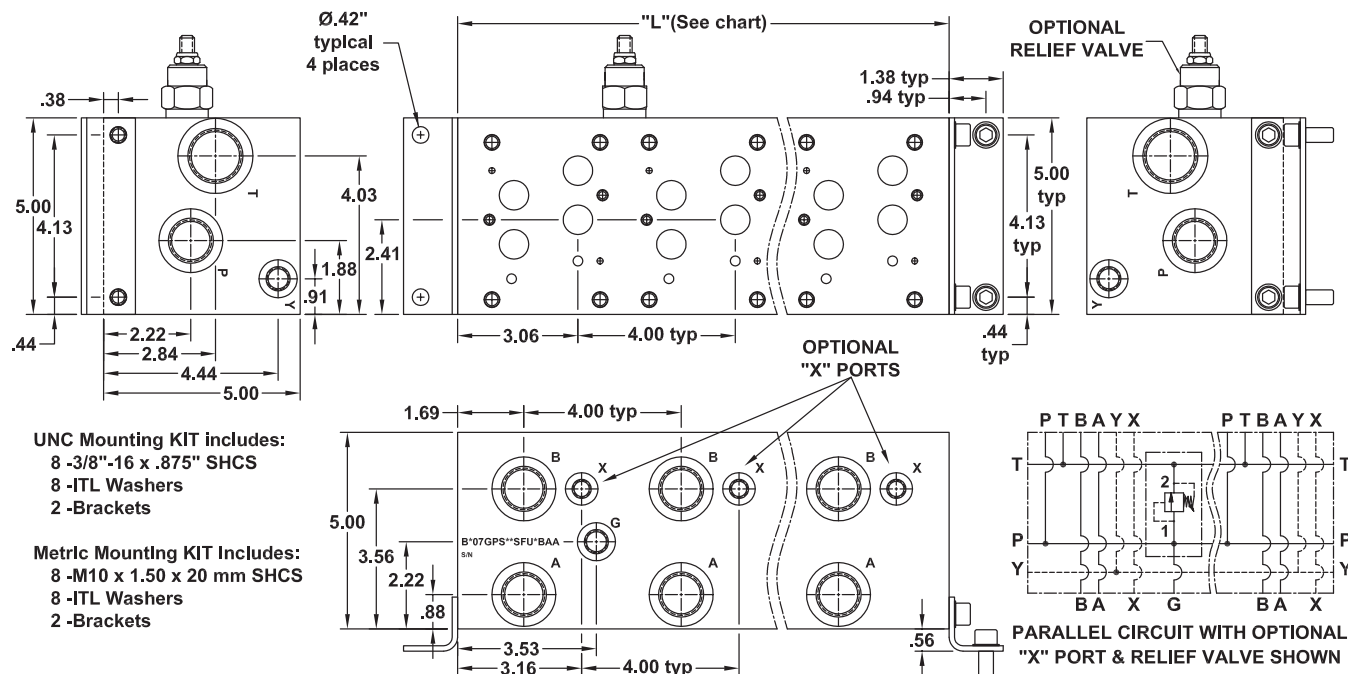
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D07 Standard Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



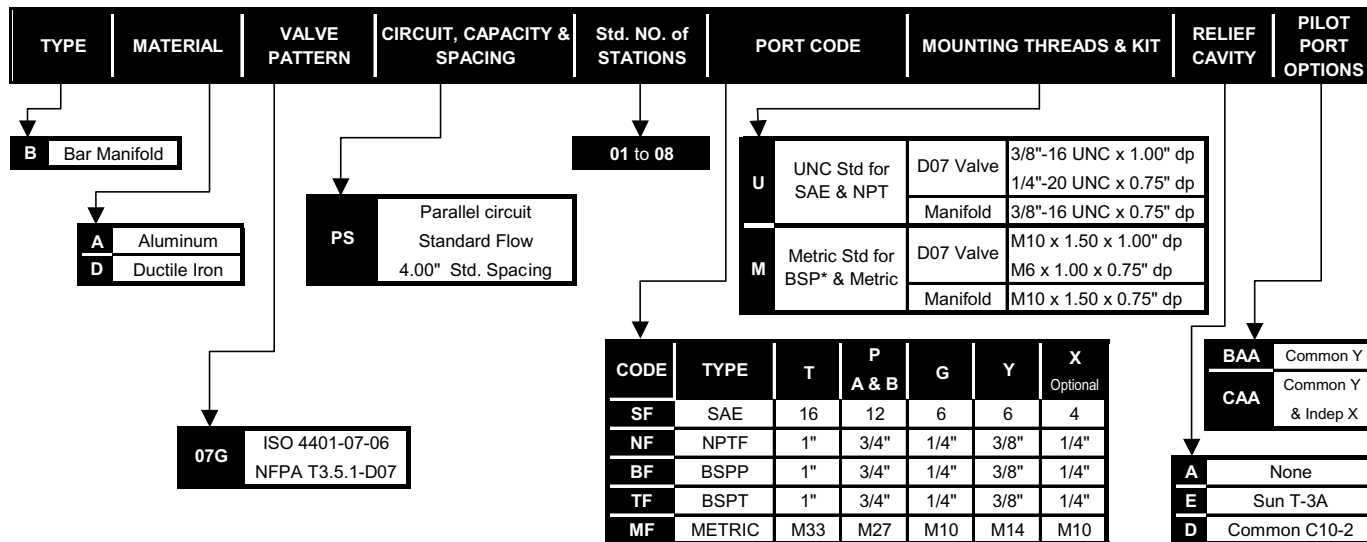
No. of Stations	1	2	3	4	5	6	7	8
Dim. "L", 4.00" spacing	4.50	8.50	12.50	16.50	20.50	24.50	28.50	32.50
est. weight in lb.- alum	9	16	24	31	38	45	52	60
est. weight in lb.- iron	23	42	62	81	101	120	140	159

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port option available - contact factory for P/N
- 3) Larger relief cavities available - contact factory for P/N

PART NUMBER SYSTEM

Aluminum D07 with Common Y and SAE porting example: **BA07GPS**SFUABAA**



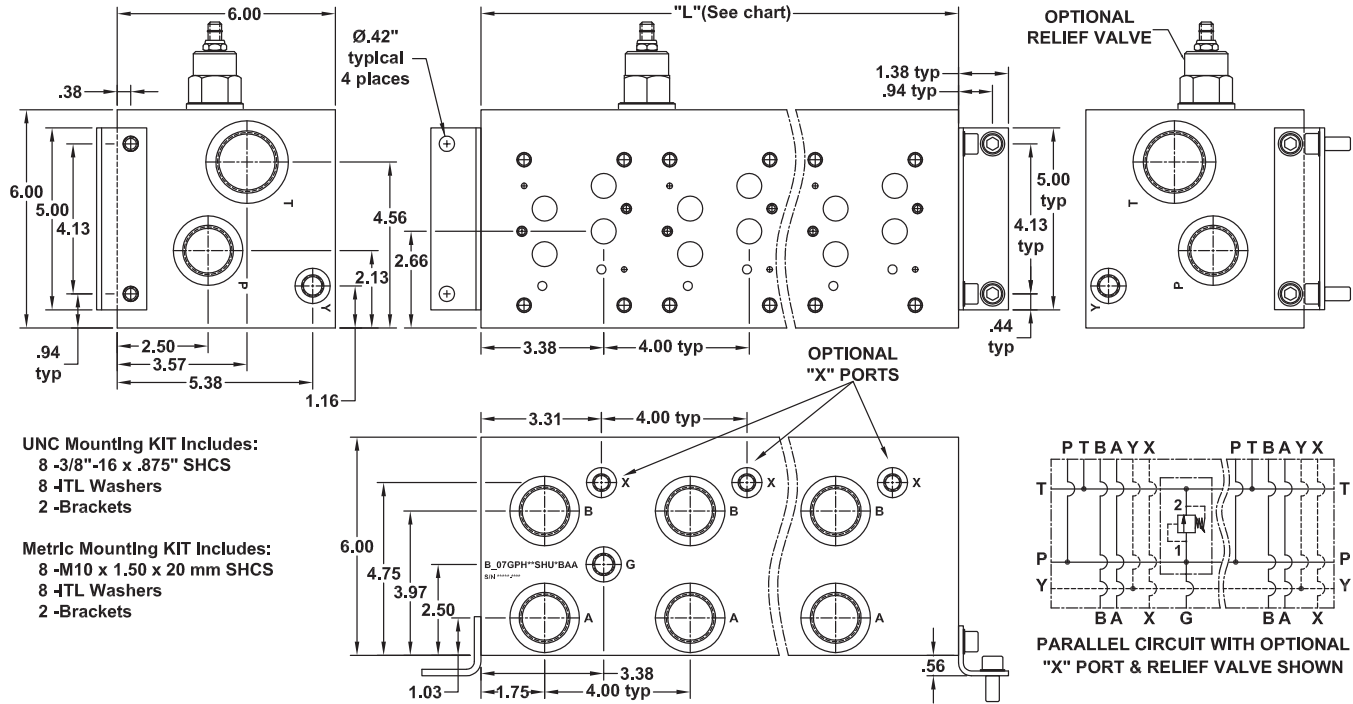
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D07 High Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	2	3	4	5	6	7	8	9
Dim. "L", 4.00" spacing	5.13	9.13	13.13	17.13	21.13	25.13	29.13	33.13	37.13
est. weight in lb.- alum	18	31	44	56	69	82	95	108	121
est. weight in lb.- iron	46	81	116	151	186	221	256	291	326

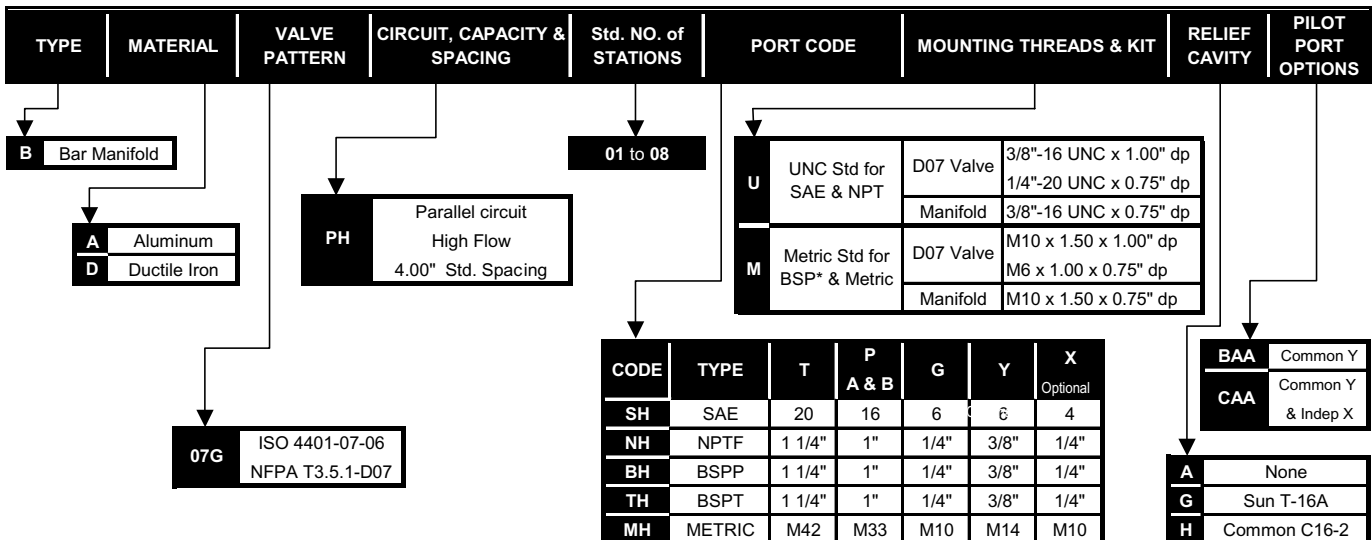
SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port available - contact factory for P/N
- 3) Wide Spacing Option - contact factory

PART NUMBER SYSTEM

Aluminum D07 with Common Y & SAE porting example: **BA07GPH**SHUABAA**



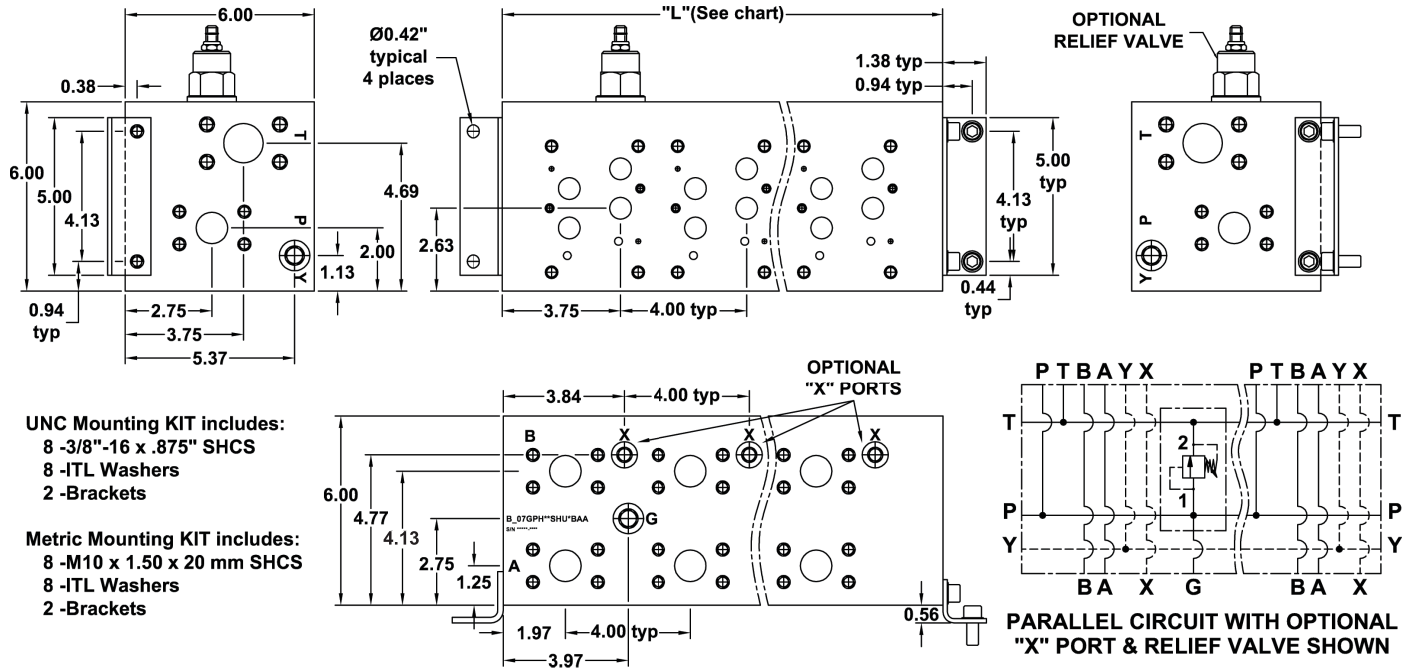
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D07 High Flow Parallel Circuit with Flange Ports

(See Page 1.99.01 for Relief Cartridges)



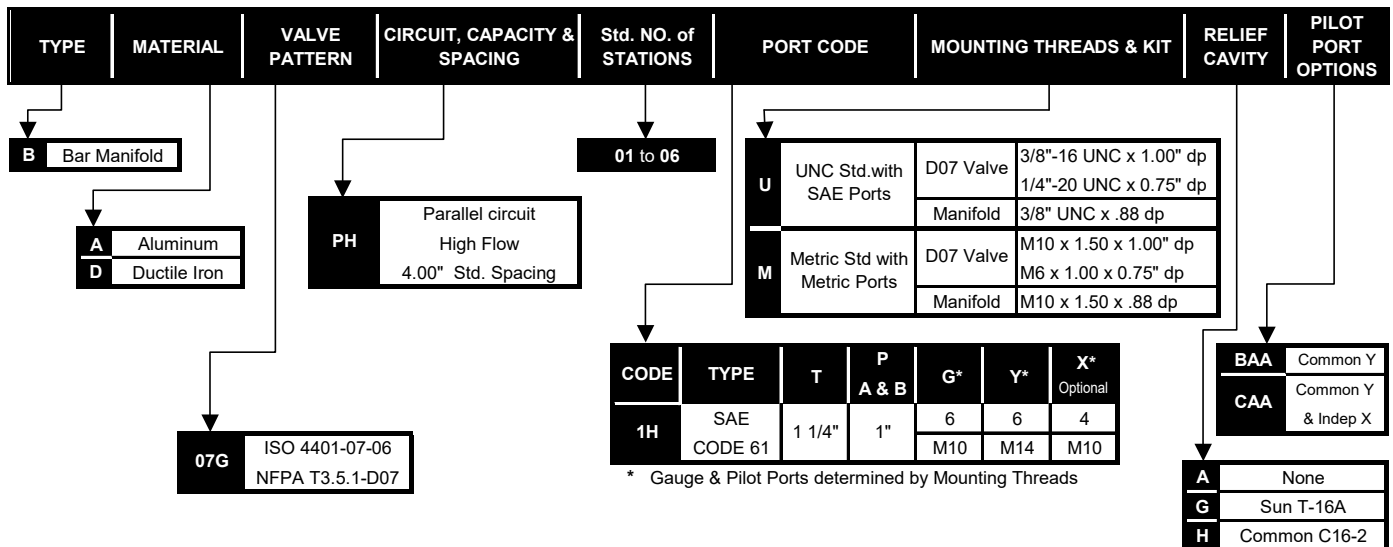
No. of Stations	1	2	3	4	5	6	7	8	9
Dim. "L", 4.00" spacing	6.00	10.00	14.00	18.00	22.00	26.00	30.00	34.00	38.00
est. weight in lb. - alum	20	33	46	59	72	85	98	111	1239
est. weight in lb. - iron	53	103	123	158	193	355	263	298	333

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port option available - contact factory
- 3) Wide Spacing Option - contact factory

PART NUMBER SYSTEM

Aluminum D07 with Common Y & Flange porting example: **BA07GPH**1HUABAA**



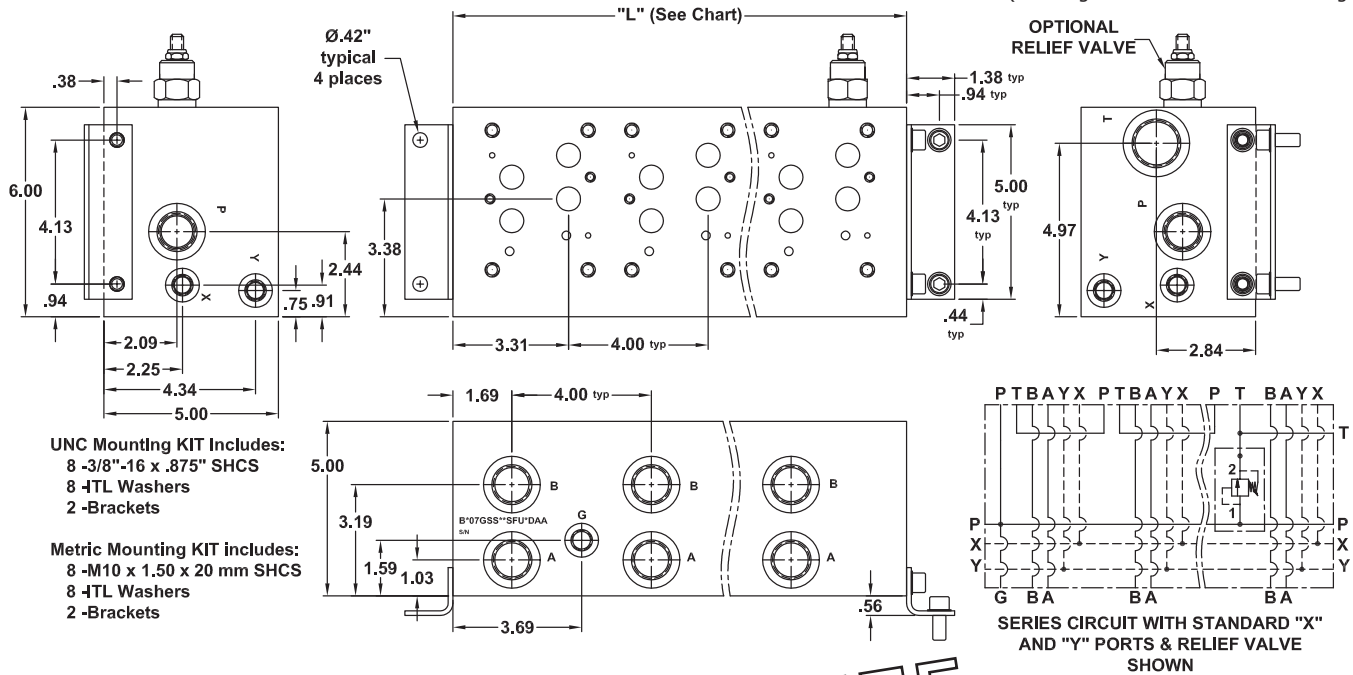
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D07 Standard Flow Series Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)

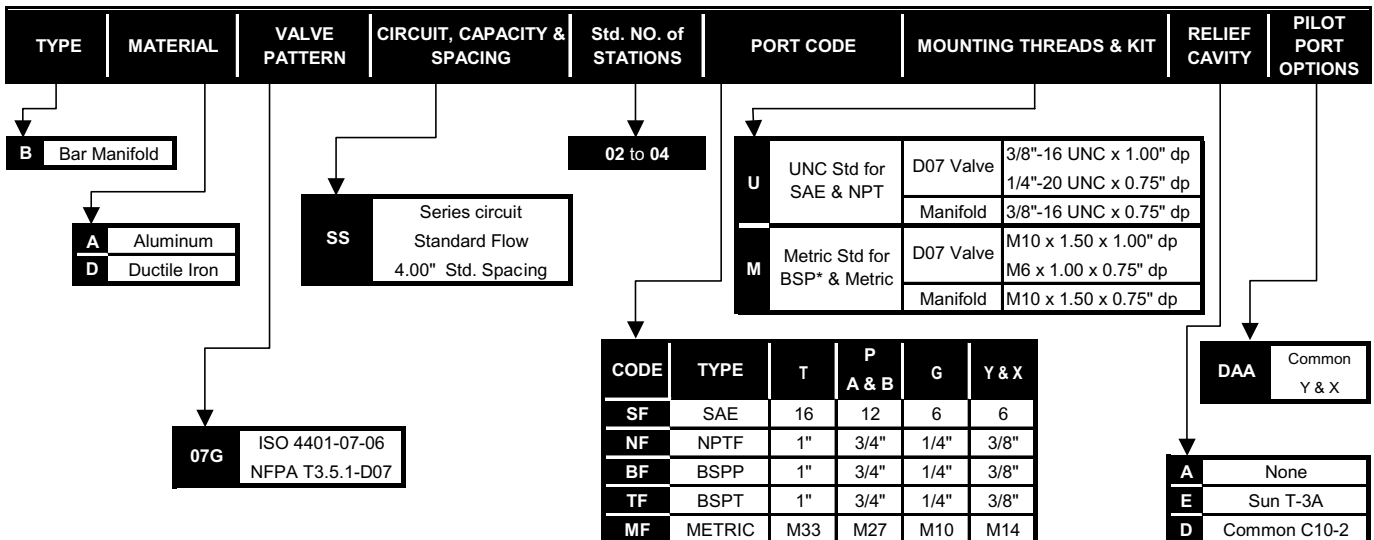


RELIEF
OPTION
AVAILABLE

No. of Stations	2	3	4
Dim. "L", 4.00" spacing	9.00	13.00	17.00
est. weight in lb.- alum	30	43	56
est. weight in lb.- iron	80	115	150

PART NUMBER SYSTEM

Aluminum D07 with Common Y & X and SAE porting example: **BA07GSS**SFUADAA**

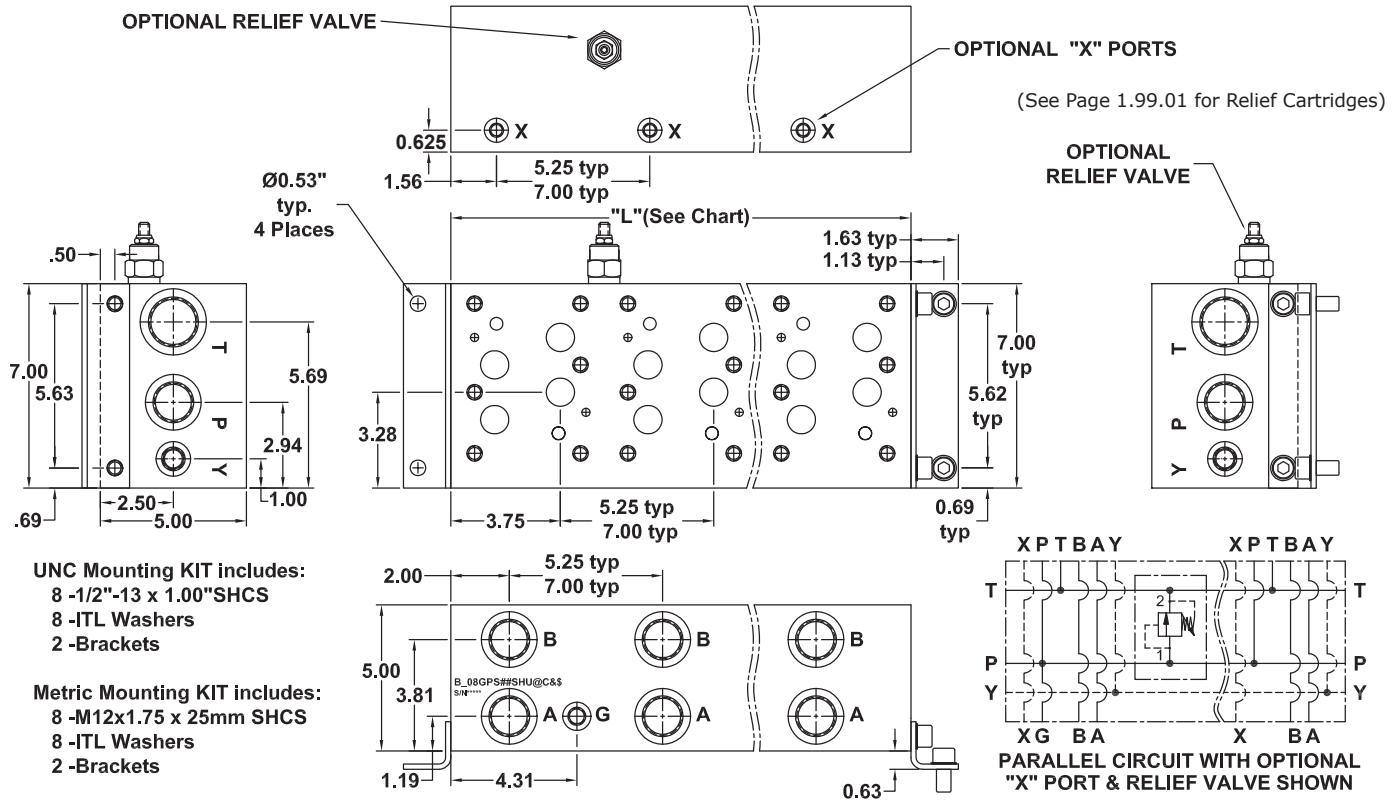


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D08 Standard Flow Parallel Circuit Manifold



No. of Stations	1	2	3	4	5	6	7
Dim. "L", 5.25" spacing	5.25	10.50	15.75	21.00	26.25	31.50	36.75
est. weight in lb.- alum	17	35	52	70	87	105	122
est. weight in lb.- iron	47	94	141	189	236	283	330
Dim. "L", 7.00" spacing	-	12.25	19.25	26.25	33.25	-	-
est. weight in lb.- alum	-	41	64	87	111	-	-
est. weight in lb.- iron	-	110	173	236	299	-	-

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port option available - contact factory for P/N
- 3) Larger relief cavities available - contact factory for P/N

PART NUMBER SYSTEM

Aluminum D08 with 5.25" spacing, Common Y and SAE porting example: **BA08GPS**SHUABAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY	PILOT PORT OPTIONS																																									
B Bar Manifold	A Aluminum D Ductile Iron	PS Parallel circuit Standard Flow 5.25" Std. Spacing PT Parallel circuit Standard Flow 7.00" Wide Spacing		01 to 07	U UNC Std for SAE & NPT M Metric Std for BSP* & Metric	D08 Valve Manifold D08 Valve Manifold 1/2"-13 UNC x 1.25 dp 1/2"-13 UNC x .88 dp M12 x 1.75 x 1.25 dp M12 x 1.75 x .88 dp		BAA COMMON Y CAA COMMON Y & INDEP X																																									
08G ISO 4401-08-07 NFPA T3.5.1-D08					<table><thead><tr><th>CODE</th><th>TYPE</th><th>T</th><th>P A & B</th><th>G</th><th>Y</th><th>X Optional</th></tr></thead><tbody><tr><td>SH</td><td>SAE</td><td>20</td><td>16</td><td>6</td><td>8</td><td>6</td></tr><tr><td>NH</td><td>NPTF</td><td>1 1/4"</td><td>1"</td><td>1/4"</td><td>3/8"</td><td>1/4"</td></tr><tr><td>BH</td><td>BSPP</td><td>1 1/4"</td><td>1"</td><td>1/4"</td><td>3/8"</td><td>1/4"</td></tr><tr><td>TH</td><td>BSPT</td><td>1 1/4"</td><td>1"</td><td>1/4"</td><td>3/8"</td><td>1/4"</td></tr><tr><td>MH</td><td>METRIC</td><td>M42</td><td>M33</td><td>M10</td><td>M14</td><td>M14</td></tr></tbody></table>	CODE	TYPE	T	P A & B	G	Y	X Optional	SH	SAE	20	16	6	8	6	NH	NPTF	1 1/4"	1"	1/4"	3/8"	1/4"	BH	BSPP	1 1/4"	1"	1/4"	3/8"	1/4"	TH	BSPT	1 1/4"	1"	1/4"	3/8"	1/4"	MH	METRIC	M42	M33	M10	M14	M14		A None E Sun T-3A D Common C10-2
CODE	TYPE	T	P A & B	G	Y	X Optional																																											
SH	SAE	20	16	6	8	6																																											
NH	NPTF	1 1/4"	1"	1/4"	3/8"	1/4"																																											
BH	BSPP	1 1/4"	1"	1/4"	3/8"	1/4"																																											
TH	BSPT	1 1/4"	1"	1/4"	3/8"	1/4"																																											
MH	METRIC	M42	M33	M10	M14	M14																																											

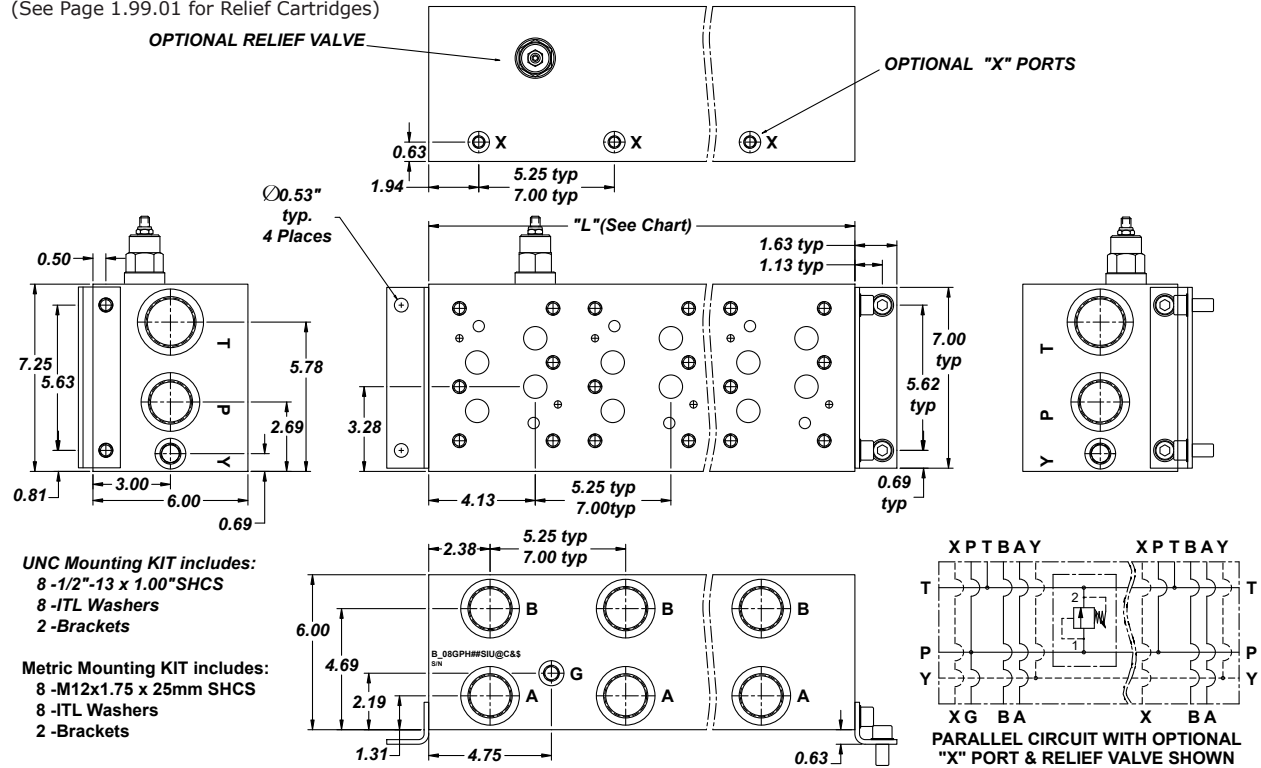
WE RESERVE THE RIGHT TO DISCONTINUE MODELS, OR CHANGE SPECIFICATIONS WITHOUT NOTICE OR INCURRING OBLIGATION

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D08 High Flow Parallel Circuit Manifold

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	2	3	4	5	6	7
Dim. "L", 5.25" spacing	6.00	11.25	16.50	21.75	27.00	32.25	37.50
est. weight in lb. - alum	28	52	77	101	126	150	175
est. weight in lb. - iron	75	141	207	273	339	405	471
Dim. "L", 7.00" spacing	-	13.00	20.00	27.00	34.00	-	-
est. weight in lb. - alum	-	61	93	126	158	-	-
est. weight in lb. - iron	-	163	251	339	427	-	-

SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port option available - contact factory for P/N
- 3) Larger relief cavities available - contact factory for P/N

PART NUMBER SYSTEM

Aluminum D08 with 5.25" spacing, Common Y & SAE porting example: **BA08GPH**SIUABAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY	PILOT PORT OPTIONS
B Bar Manifold	A Aluminum D Ductile Iron	PH Parallel circuit High Flow 5.25" Std. Spacing PI Parallel circuit High Flow 7.00" Wide Spacing	01 to 07	U UNC Std for SAE & NPT M Metric Std for BSP* & Metric	SI SAE NI NPTF BI BSPP TI BSPT MI METRIC	D08 Valve 1/2"-13 UNC x 1.25 dp Manifold 1/2"-13 UNC x .88 dp D08 Valve M12 x 1.75 x 1.25 dp Manifold M12 x 1.75 x .88 dp	BAA COMMON Y CAA COMMON Y & INDEP X	A None G Sun T-16A H Common C16-2
08G ISO 4401-08-07 NFFPA T3.5.1-D08								

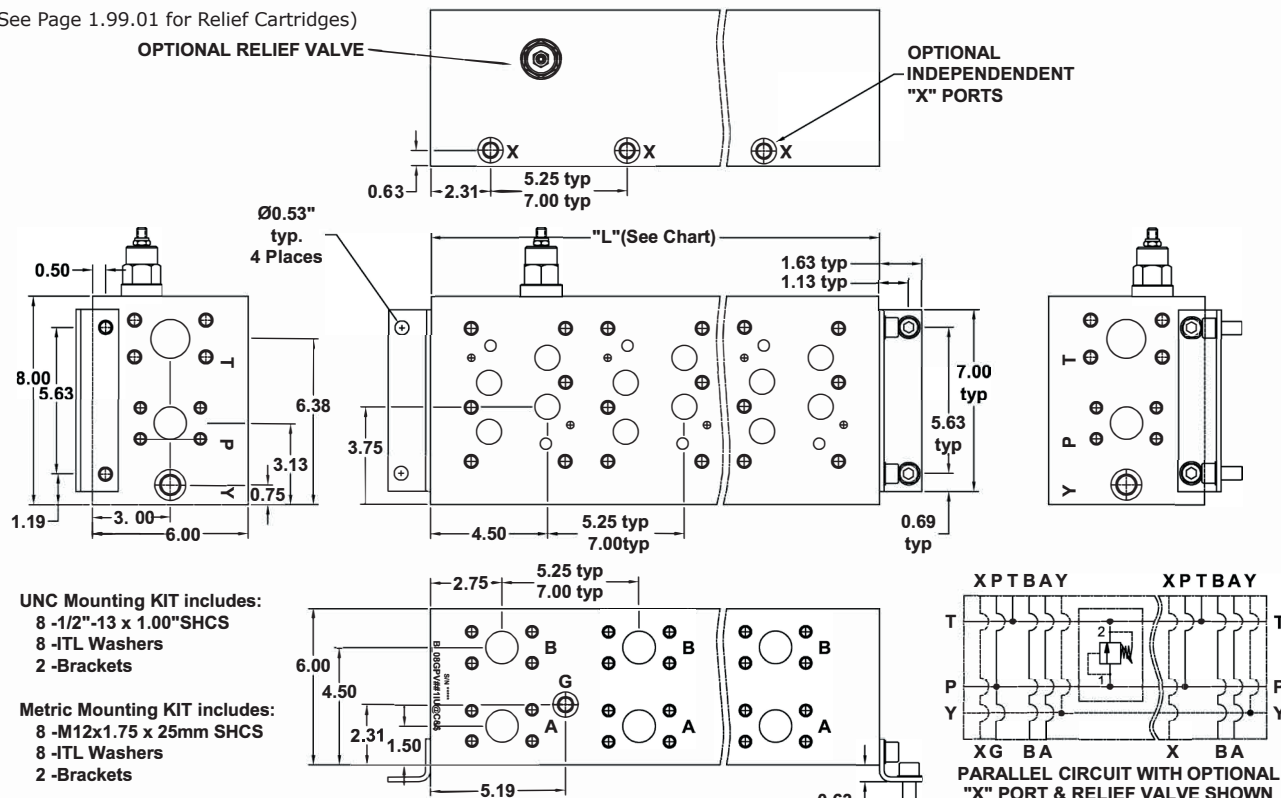
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D08 Very High Flow Parallel Circuit with Flange Ports

(See Page 1.99.01 for Relief Cartridges)



No. of Stations	1	2	3	4	5	6	7
Dim. "L", 5.25" spacing	6.75	12.00	17.25	22.50	27.75	33.00	38.25
est. weight in lb. - alum	31	55	79	103	127	150	174
est. weight in lb. - iron	83	148	212	277	342	406	471
Dim. "L", 7.00" spacing	-	13.75	20.75	27.75	34.75	-	-
est. weight in lb. - alum	-	63	95	127	158	-	-
est. weight in lb. - iron	-	169	255	342	428	-	-

SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port option available - contact factory for P/N
- 3) Larger relief cavities available - contact factory for P/N

PART NUMBER SYSTEM

Aluminum D08 with 5.25" spacing, Common Y & Flange porting example: BA08GPV1IUABAA**

TYPE	MATERIAL	VALVE PATTERN	CIRCUIT, CAPACITY & SPACING	Std. NO. of STATIONS	PORT CODE	MOUNTING THREADS & KIT	RELIEF CAVITY	PILOT PORT OPTIONS
B	A D	PV PW	Parallel circuit Very High Flow 5.25" Std. Spacing Parallel circuit Very High Flow 7.00" Wide Spacing	01 to 07	U M	UNC Std with SAE Ports Metric Std with Metric Ports D08 Valve Manifold D08 Valve Manifold 1/2"-13 UNC x 1.25 dp 1/2"-13 UNC x .88 dp M12 x 1.75 x 1.25 dp M12 x 1.75 x .88 dp	BAA CAA	COMMON Y COMMON Y & INDEP X
08G	ISO 4401-08-07 NFPA T3.5.1-D08						A G H	None Sun T-16A Common C16-2

* Gauge & Pilot Ports determined by Mounting Threads

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(See Page 1.99.01 for Relief Cartridges)



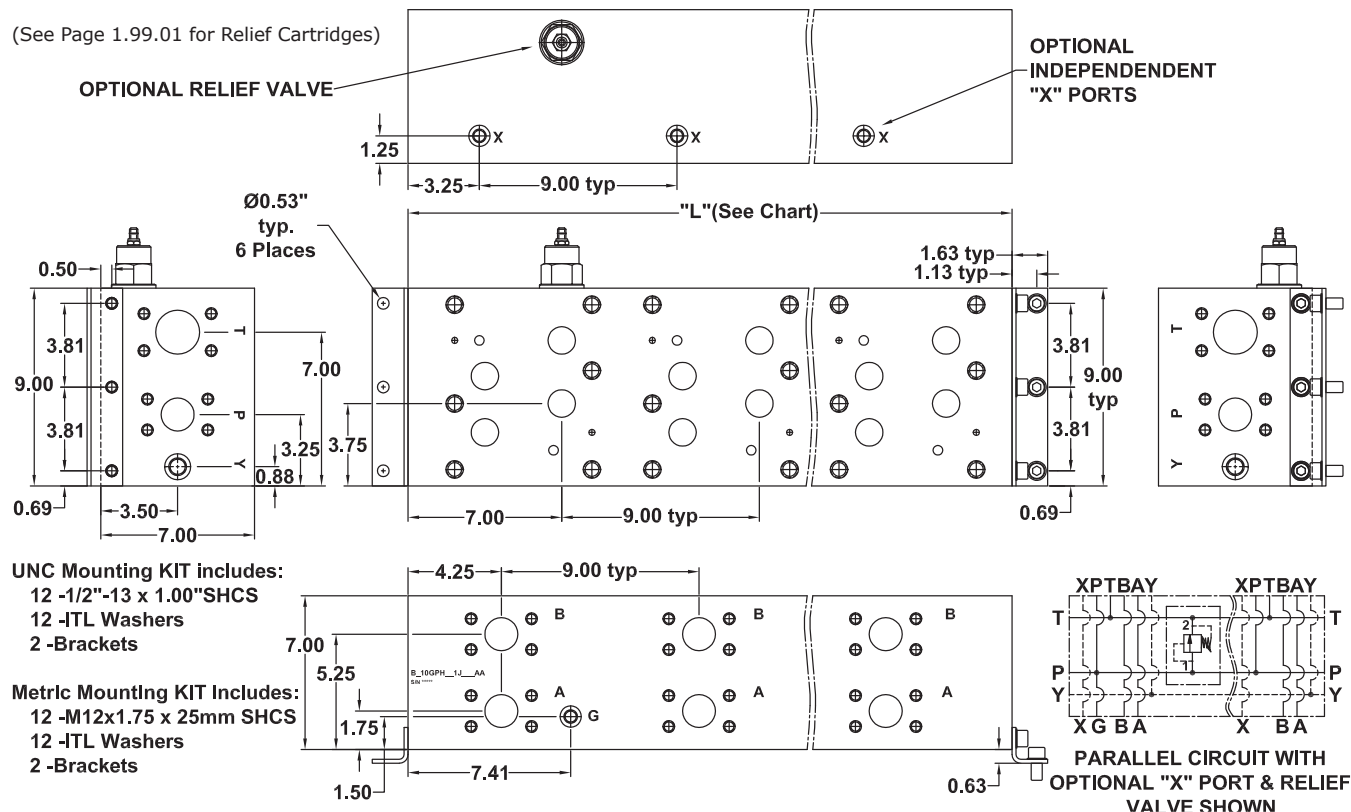
SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

Aluminum D08 with 5.25" spacing, Common Y & X and SAE porting example: BA08GSSSHUADAA**



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D10 High Flow Parallel Circuit with Flange Ports



No. of Stations	1	2	3	4
Dim. "L", 9.00" spacing	10.00	19.00	28.00	37.00
est. weight in lb. - alum	46	87	128	169
est. weight in lb. - iron	123	234	345	456

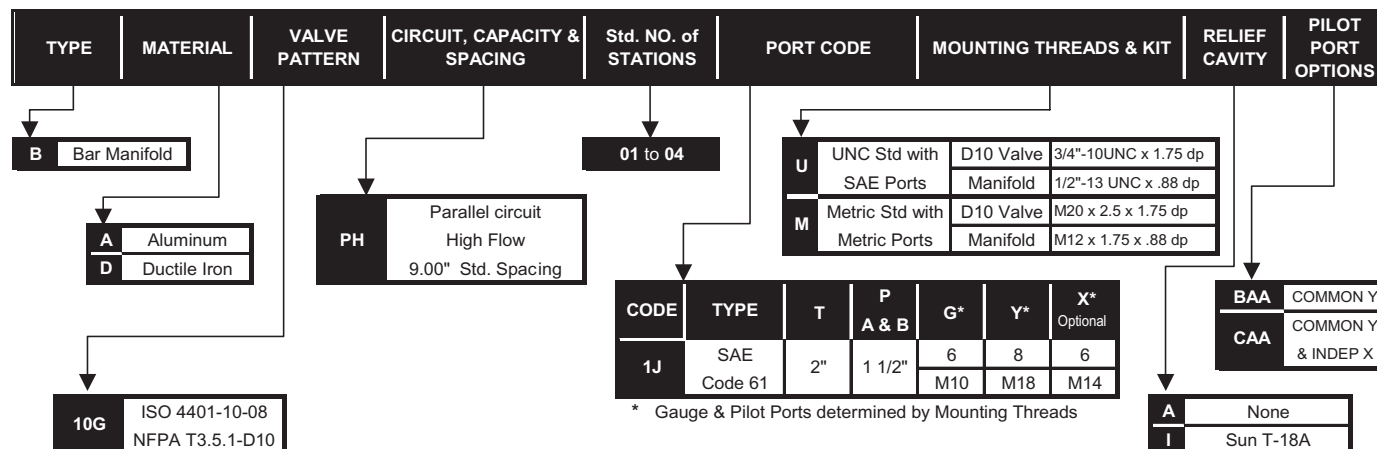
SHADED AREA AVAILABLE
ON SPECIAL ORDER ONLY

Notes:

- 1) Isolations on P & T available - See Page 5 for Codes
- 2) Common X port option available - contact factory for P/N
- 3) Wide Spacing Option - contact factory

PART NUMBER SYSTEM

Aluminum D10 with 9.00" spacing, Common Y & Flange porting example: **BA10GPH**1JUABAA**



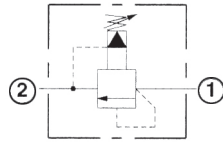
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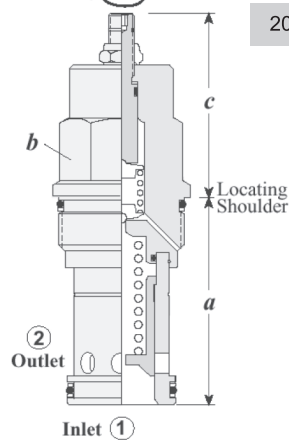
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Sun Hydraulics Relief Valves

PILOT OPERATED RELIEF VALVES



Full Adjustment 5 Turns



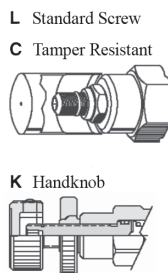
CAPACITY	MODEL CODE	CAVITY	CARTRIDGE DIMENSIONS					INSTALLATION TORQUE (lb/ft)
			a	b	L	C	K	
12 GPM	RPCC - LAN	T - 162A	1.22	3/4"	2.11	2.17	2.31	25/30
25 GPM	RPEC - LAN	T - 10A	1.56	7/8"	2.00	2.06	2.25	30/35
50 GPM	RPGC - LAN	T - 3A	1.88	1 1/8"	2.12	2.18	2.38	45/50
100 GPM	RPIC - LAN	T - 16A	2.44	1 1/4"	2.44	2.47	2.69	150/160
200 GPM	RPKC - LAN	T - 18A	3.13	1 5/8"	2.81	2.94	3.06	350/375

RP ★ C - ★ ★ ★

Nominal Capacity

C 12 GPM*
E 25 GPM
G 50 GPM
I 100 GPM
K 200 GPM

Control**



Adjustment Range

A 100 - 3000 psi
B 50 - 1500 psi
C 150 - 6000 psi
N 60 - 800 psi
Q 60 - 400 psi
W 150 - 4500 psi

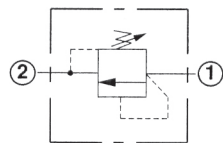
Seal

N Buna - N
V Viton

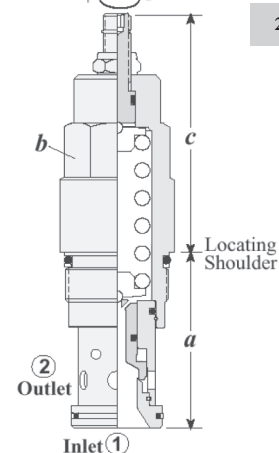
Adjustment Range Options:

A, B, C, and W are standard set at 1000 psi
N Option is standard set at 400 psi
Q Option is standard set at 200 psi
* Minimum setting 75 psi on all ranges
Customer may specify pressure setting.

DIRECT ACTING RELIEF VALVES



Full Adjustment 5 Turns



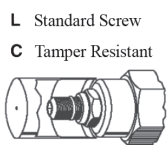
CAPACITY	MODEL CODE	CAVITY	CARTRIDGE DIMENSIONS				INSTALLATION TORQUE (lb/ft)
			a	b	L	C	
12 GPM	RDBA - LAN	T - 162A	1.22	3/4"	2.11	2.17	25/30
25 GPM	RDDA - LAN	T - 10A	1.56	7/8"	2.38	2.44	30/35
50 GPM	RDFA - LAN	T - 3A	1.88	1 1/8"	2.50	2.56	45/50
100 GPM	RDHA - LAN	T - 16A	2.44	1 1/4"	3.25	3.31	150/160
200 GPM	RDJA - LAN	T - 18A	3.13	1 5/8"	3.94	4.07	350/375

RD ★ A - ★ ★ ★

Nominal Capacity

B 12 GPM
D 25 GPM
F 50 GPM
H 100 GPM
J 200 GPM

Control**



Adjustment Range

A 500 - 3000 psi
B 300 - 1500 psi
C 1000 - 6000 psi
D 200 - 800 psi
E 100 - 400 psi
S 50 - 200 psi
W 1000 - 4500 psi

Seal

N Buna - N
V Viton

Adjustment Range Options:

A, B, C, and W are standard set at 1000 psi
D Option is standard set at 400 psi
E Option is standard set at 200 psi
S Option is standard set at 100 psi
Customer may specify pressure setting.

U.S. Patent #4,742,846
European Patent Pending

Note: Sun's stainless steel passivated product line is growing.

If you are interested in a stainless option for a model which is not shown please contact Lynch Fluid Controls Inc.

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