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**Headers & Junctions**

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BAR MANIFOLDS
TAPPING PLATES
VALVE ADAPTERS
SUBPLATES
SUBPLATES w/ CIRCUITS
COVER PLATES
<b>HEADERS/ JUNCTIONS</b>
DIN BODIES
ACCESSORIES
VALVE PACKS & CUSTOMS
TECHNICAL INFO

## Product Tips and Features

BAR  
MANIFOLDSTAPPING  
PLATESVALVE  
ADAPTERS

SUBPLATES

SUBPLATES  
w/  
CIRCUITSCOVER  
PLATESHEADERS/  
JUNCTIONSDIN  
BODIES

ACCESSORIES

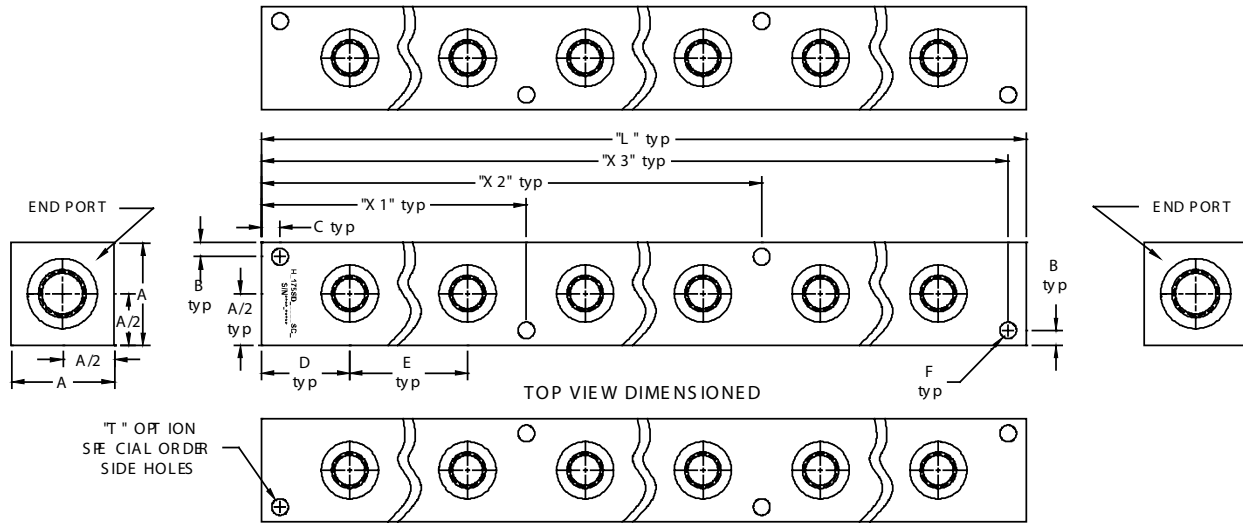
VALVE PACKS  
& CUSTOMSTECHNICAL  
INFO

### Headers & Junctions

Header & Junction blocks are used to provide distribution or connection points in a fluid power piping system. Headers provide a common through port for multiple inlet or outlet ports at each station to be neatly connected together. Junctions offer termination points to join individual lines in order to change direction or combine/split flow with other lines at each station. In both cases they provide support to the piping system.

1. Standard materials are Aluminum, Ductile Iron, and Steel. Other materials including Stainless Steel, Brass and Nylon® are optionally available.
2. Special Finishes including Black Oxide, Electroless Nickel Plating or Anodizing are optionally available.
3. UNC mounting bolt kits are supplied as standard.
4. Top only or Top & Side mounting available.
5. Internal galleries are equal to or greater than the nominal port connection in order to minimize pressure drops and fluid velocities.
6. No variation in design layout for each Model regardless of Port Code.
7. Both Headers & Junctions are offered in odd and even number of stations up to 10. Contact factory for models with more stations.
8. Headers are offered in 0°, 90° and 180° configurations as standard. Special orders can be placed for the 270° configurations.
9. Junctions are offered in 90°, 180° and 270° configurations as standard.
10. Models with smaller ports than shown are available as non-standards. Contact factory for part numbers.
11. Optional spacing between ports available upon request. Contact factory for part numbers.
12. Optional port sizes and types such as Metric, BSPP and SAE Flanges Code 61 or 62 are available on request. Contact factory for part numbers.
13. Some models of Twin Headers and Junctions are available as a special. Contact factory for part numbers.

# Headers - Layout & Part Number System



Note: End port must be 1 size larger than the side ports. Custom combinations available. Contact Lynch today. See page # 000 for our order form.  
To create a Part Number, select one CODE from each Column. Port sizes are linked to material size and must be selected from the same row for standard product.

**EXAMPLE** Aluminum Header with SAE 8 End Ports and SAE 6 Ports Out Top & One Side: HA175SD090\*\*SCU

TYPE	MAT'L	MATERIAL SIZE	END PORT CODE	PORT ORIENTATION	NO. of STATIONS	SIDE PORT CODE	MT'G																													
H HEADER	A OR F STEEL ALUMINUM D DUCTILE IRON	<table border="1"> <tr><th>CODE</th><th>SIZE</th></tr> <tr><td>100</td><td>1.00" x 1.00"</td></tr> </table>	CODE	SIZE	100	1.00" x 1.00"	<table border="1"> <tr><th>CODE</th><th>TYPE</th></tr> <tr><td>NA</td><td>1/8" NPTF</td></tr> </table>	CODE	TYPE	NA	1/8" NPTF	<table border="1"> <tr><th>CODE</th><th>STYLE</th></tr> <tr><td>000</td><td>One Side Only</td></tr> </table>	CODE	STYLE	000	One Side Only	01 to 10	<table border="1"> <tr><th>CODE</th><th>TYPE</th></tr> <tr><td>NR</td><td>1/16" NPTF</td></tr> </table>	CODE	TYPE	NR	1/16" NPTF	<table border="1"> <tr><td>STD</td><td>NON-STD</td></tr> <tr><td>U</td><td>or</td><td>T</td></tr> <tr><td>TOP</td><td>MTG</td><td>H</td><td>SIDE</td><td>MTG</td><td>H</td><td>ONLY</td><td>H</td></tr> </table>	STD	NON-STD	U	or	T	TOP	MTG	H	SIDE	MTG	H	ONLY	H
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## Header Dimensional Data

### 1.00" HEADER

A	B	C	D	E	F
1.00	0.16	0.31	1.00	1.25	0.20

Mounting Kit includes:  
2 or 4 SHCS 10-24 UNC x 1.50" Long

### 1.50" HEADER

A	B	C	D	E	F
1.50	0.25	0.31	1.13	1.38	0.27

Mounting Kit includes:  
2 or 4 SHCS 1/4"-20 UNC x 2.00" Long

### 1.75" HEADER - STANDARD FLOW

A	B	C	D	E	F
1.75	0.25	0.31	1.06	1.75	0.27

Mounting Kit includes:  
2 or 4 SHCS 1/4"-20 UNC x 2.25" Long

### 1.75" HEADER - HIGH FLOW

A	B	C	D	E	F
1.75	0.25	0.31	1.50	2.00	0.27

Mounting Kit includes:  
2 or 4 SHCS 1/4"-20 UNC x 2.25" Long

### 2.00" HEADER

A	B	C	D	E	F
2.00	0.25	0.31	1.50	2.38	0.27

Mounting Kit includes:  
2 or 4 SHCS 1/4"-20 UNC x 2.50" Long

### 2.50" HEADER

A	B	C	D	E	F
2.50	0.28	0.38	1.81	3.25	0.34

Mounting Kit includes:  
2 or 4 SHCS 5/16"-18 UNC x 3.00" Long

### 3.00" HEADER

A	B	C	D	E	F
3.00	0.34	0.38	2.00	3.75	0.41

Mounting Kit includes:  
2 or 4 SHCS 3/8"-16 UNC x 3.75" Long

### 3.50" HEADER

A	B	C	D	E	F
3.50	0.41	0.50	2.25	4.00	0.53

Mounting Kit includes:  
2 or 4 SHCS 1/2"-13 UNC x 4.50" Long

### 4.00" HEADER

A	B	C	D	E	F
4.00	0.41	2.00	2.50	5.00	0.53

Mounting Kit includes:  
2 or 4 SHCS 1/2"-13 UNC x 5.00" Long

No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	2.00	3.25	4.50	5.75	7.00	8.25	9.50	10.75	12.00	13.25
X1	*	*	*	*	2.88	2.88	4.13	4.13	4.13	4.13
X2	*	*	*	*	4.13	5.38	5.38	6.63	7.88	9.13
X3	1.38	2.63	3.88	5.13	6.38	7.63	8.88	10.13	11.38	12.63

No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	2.25	3.63	5.00	6.38	7.75	9.13	10.50	11.88	13.25	14.63
X1	*	*	*	*	3.19	3.19	4.56	4.56	4.56	4.56
X2	*	*	*	*	4.56	5.94	5.94	7.31	8.69	10.06
X3	1.94	3.31	4.69	6.06	7.44	8.81	10.19	11.56	12.94	14.31

No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	2.13	3.88	5.63	7.38	9.13	10.88	12.63	14.38	16.13	17.88
X1	*	*	*	*	3.69	3.69	5.44	5.44	5.44	5.44
X2	*	*	*	*	5.44	7.19	7.19	8.94	10.69	12.44
X3	1.81	3.56	5.31	7.06	8.81	10.56	12.31	14.06	15.81	17.56

No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	3.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00
X1	*	*	*	*	4.50	4.50	6.50	6.50	6.50	6.50
X2	*	*	*	*	6.50	8.50	8.50	10.50	12.50	14.50
X3	2.69	4.69	6.69	8.69	10.69	12.69	14.69	16.69	18.69	20.69

No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	3.00	5.38	7.75	10.13	12.50	14.88	17.25	19.63	22.00	24.38
X1	*	*	*	*	5.06	5.06	7.44	7.44	7.44	7.44
X2	*	*	*	*	7.44	9.81	9.81	12.19	14.56	16.94
X3	2.69	5.06	7.44	9.81	12.19	14.56	16.94	19.31	21.69	24.06

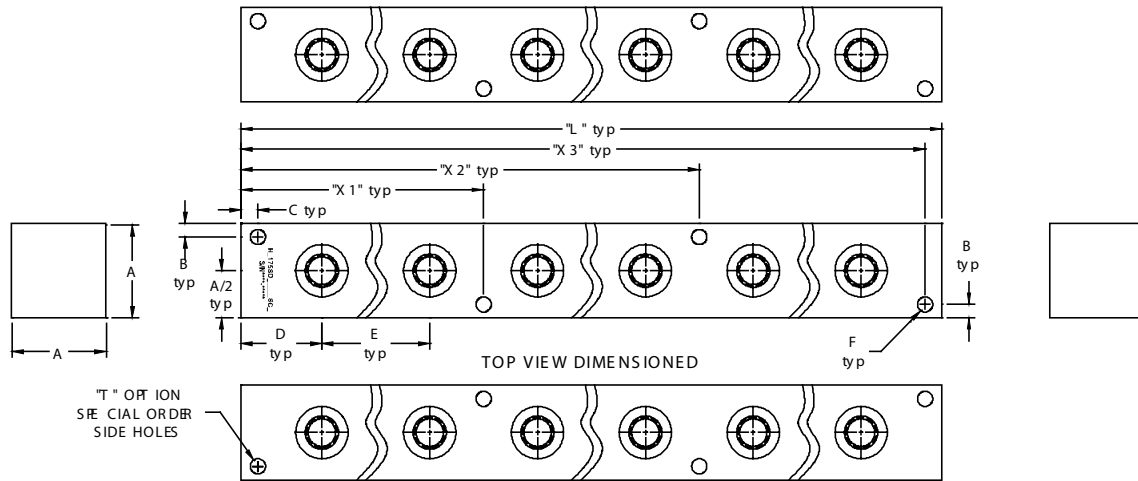
No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	3.63	6.88	10.13	13.38	16.63	19.88	23.13	26.38	29.63	32.88
X1	*	*	*	*	6.69	6.69	9.94	9.94	9.94	9.94
X2	*	*	*	*	9.94	13.19	13.19	16.44	19.69	22.94
X3	3.25	6.50	9.75	13.00	16.25	19.50	22.75	26.00	29.25	32.50

No. of Stations	1	2	3	4	5	6	7	8	9	10
Dim. "L"	4.00	7.75	11.50	15.25	19.00	22.75	26.50	30.25	34.00	37.75
X1	*	*	*	*	7.63	7.63	11.38	11.38	11.38	11.38
X2	*	*	*	*	11.38	15.13	15.13	18.88	22.63	26.38
X3	3.63	7.38	11.13	14.88	18.63	22.38	26.13	29.88	33.63	37.38

No. of Stations	1	2	3	4	5	6	7	8	9
Dim. "L"	4.50	8.50	12.50	16.50	20.50	24.50	28.50	32.50	36.50
X1	*	*	*	*	8.25	8.25	12.25	12.25	12.25
X2	*	*	*	*	12.25	16.25	16.25	20.25	24.25
X3	4.00	8.00	12.00	16.00	20.00	24.00	28.00	32.00	36.00

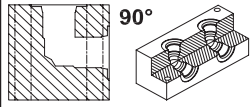
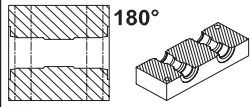
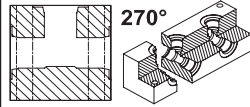
No. of Stations	1	2	3	4	5	6	7
Dim. "L"	8.00	13.00	18.00	23.00	28.00	33.00	38.00
X1	*	*	*	*	11.50	11.50	16.50
X2	*	*	*	*	16.50	21.50	21.50
X3	6.00	11.00	16.00	21.00	26.00	31.00	36.00

# Junctions - Layout & Part Number System



To create a Part Number, select one CODE from each Column. Port sizes are linked to material size and must be selected from the same row for standard product.

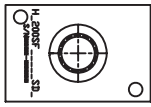
**EXAMPLE** Ductile Iron Junction with SAE 16 Ports Out Top & Two Opposite Sides: JD300XX270\*\*SHU

TYPE	MAT'L	MATERIAL SIZE	END PORT CODE	PORT ORIENTATION	NO. of STATIONS	SIDE PORT CODE	MT'G																				
J JUNCTION	A OR F STEEL OR ALUMINUM OR DUCTILE IRON	<table border="1"> <tr><th>CODE</th><th>SIZE</th></tr> <tr><td>100</td><td>1.00" x 1.00"</td></tr> </table>	CODE	SIZE	100	1.00" x 1.00"	<table border="1"> <tr><th>CODE</th><th>TYPE</th></tr> <tr><td>XX</td><td>NONE</td></tr> </table>	CODE	TYPE	XX	NONE	<table border="1"> <tr><th>CODE</th><th>STYLE</th></tr> <tr><td>090</td><td>Top &amp; One Side</td></tr> </table> 	CODE	STYLE	090	Top & One Side	01 to 10	<table border="1"> <tr><th>CODE</th><th>TYPE</th></tr> <tr><td>NR</td><td>1/16" NPTF</td></tr> </table>	CODE	TYPE	NR	1/16" NPTF	<table border="1"> <tr><td>STD</td><td>NON-STD</td></tr> <tr><td>U or T</td><td>TOP &amp; SIDE MTG HOLES ONLY</td></tr> </table>	STD	NON-STD	U or T	TOP & SIDE MTG HOLES ONLY
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<table border="1"> <tr><td>150</td><td>1.50" x 1.50"</td></tr> </table>	150	1.50" x 1.50"	<table border="1"> <tr><td>180</td><td>Two Opposite Sides</td></tr> </table> 	180	Two Opposite Sides	<table border="1"> <tr><td>SB</td><td>SAE 4</td></tr> <tr><td>NB</td><td>1/4" NPTF</td></tr> </table>	SB	SAE 4	NB	1/4" NPTF																	
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<table border="1"> <tr><td>250</td><td>2.50" x 2.50"</td></tr> </table>	250	2.50" x 2.50"	<table border="1"> <tr><td>SH</td><td>SAE 16</td></tr> <tr><td>NH</td><td>1" NPTF</td></tr> </table>	SH	SAE 16	NH	1" NPTF																				
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<table border="1"> <tr><td>300</td><td>3.00" x 3.00"</td></tr> </table>	300	3.00" x 3.00"	01 to 07	<table border="1"> <tr><td>SI</td><td>SAE 20</td></tr> <tr><td>NI</td><td>1 1/4" NPTF</td></tr> </table>	SI	SAE 20	NI	1 1/4" NPTF																			
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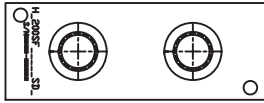


## Typical Mounting Styles and Cross Sections

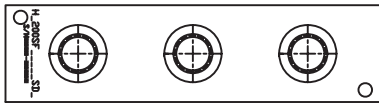
BAR  
MANIFOLDS



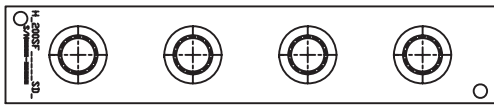
TAPPING  
PLATES



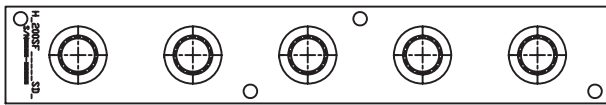
VALVE  
ADAPTERS



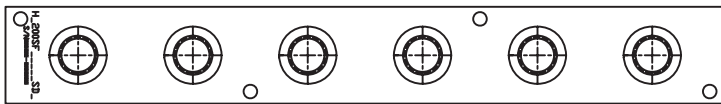
SUBPLATES



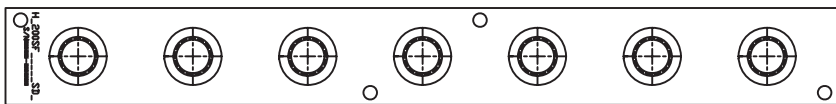
SUBPLATES  
w/ CIRCUITS



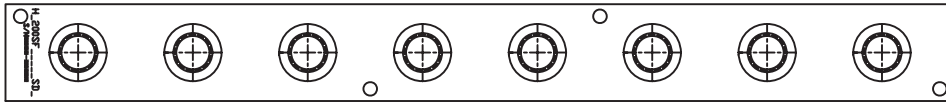
COVER  
PLATES



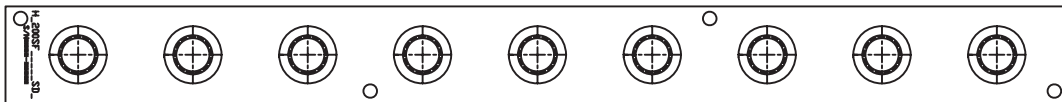
HEADERS/  
JUNCTIONS



DIN  
BODIES



ACCESSORIES



VALVE PACKS  
& CUSTOMS



TECHNICAL  
INFO

JUNCTIONS

HEADERS

