

**Index**

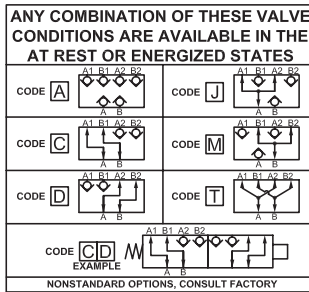
**Valve Packs & Customs**

Priority Flow Controls - Hammer Valve Series.....	10.01.01
Selector Valves: Three, Six & Eight-Way .....	10.02.01
Two-Speed Line Mount and Sandwich Valves.....	10.03.01
Two-Speed Sandwich Module P/N System.....	10.03.02
Two-Speed Line Mount Module P/N System.....	10.03.03
Request for Engineered Project - Page 1 .....	10.04.01
Request for Engineered Project - Page 2 .....	10.04.02

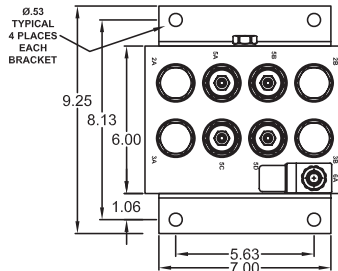
BAR MANIFOLDS
TAPPING PLATES
VALVE ADAPTERS
SUBPLATES
SUBPLATES w/ CIRCUITS
COVER PLATES
HEADERS/ JUNCTIONS
DIN BODIES
ACCESSORIES
<b>VALVE PACKS &amp; CUSTOMS</b>
TECHNICAL INFO



## Selector Valves: Three, Six & Eight-Way



STANDARD 60 GPM SIX-WAY SELECTOR WITH RELIEFS AND ANTI-CAVS SHOWN BELOW:



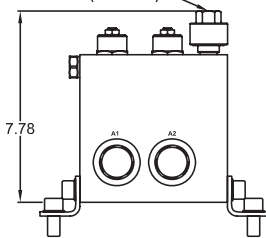
**APPLICATION NOTES:**

- 1) ALL PORTS CAN BE PRESSURIZED UP TO 3000 PSI FOR ALUMINUM AND 5000 PSI FOR DUCTILE IRON.
- 2) MAXIMUM LEAKAGE IS 5 DROPS PER MINUTE.
- 3) SHIFTING OF VALVE IS NOT AFFECTED BY PRESSURE DIFFERENTIAL IN WORKING LINES.
- 4) A SEPARATE CONNECTION TO TANK FOR THE DRAIN IS RECOMMENDED. ALSO A 300 PSI MINIMUM HYDRAULIC PRESSURE DIFFERENTIAL BETWEEN THE PILOT & DRAIN MUST BE MAINTAINED FOR PROPER OPERATION.
- 5) BACK PRESSURE IN THE TANK LINE IS ADDITIVE TO THE RELIEF VALVES BY UP TO 5.5 TIMES THE VALVE SETTING.
- 6) RELIEF ADJUSTMENT RANGES UP TO 6000PSI.
- 7) TURN SCREW CLOCKWISE TO REDUCE SETTING.

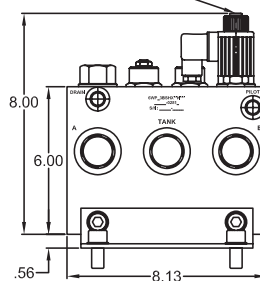
WORKING LINES = SAE 16  
DRAIN, PILOT, & TP = SAE 6

CONSULT FACTORY FOR ALTERNATE PORT OPTIONS.

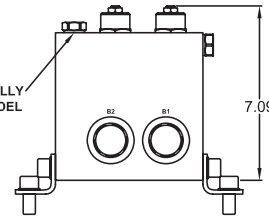
VIEW OF PNEUMATICALLY ACTUATED MODEL (1/8" NPTF)



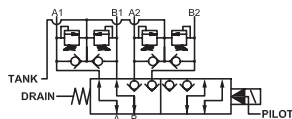
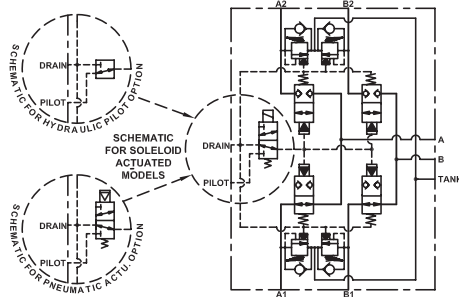
VIEW OF ELECTRICALLY ACTUATED MODEL WITH DIN CONNECTOR



VIEW OF HYDRAULICALLY PILOTED MODEL

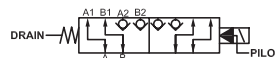
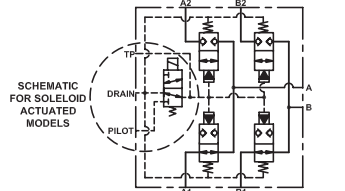


DETAILED SCHEMATIC



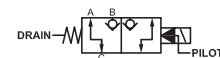
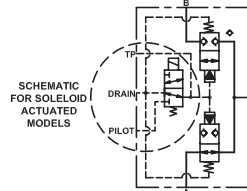
STANDARD 6-WAY WITH RELIEFS & ANTI-CAV SCHEMATIC

DETAILED SCHEMATIC

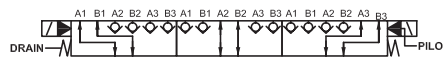


STANDARD 6-WAY SCHEMATIC

DETAILED SCHEMATIC



STANDARD 3-WAY SCHEMATIC



STANDARD 8-WAY SCHEMATIC

**REQUEST BY MODEL NUMBER**

NOMINAL FLOW RATE	BASIC MODEL NUMBER				
	3-WAY SELECTOR	3-WAY SELECTOR with RELIEF & ANTI-CAV	6-WAY SELECTOR	6-WAY SELECTOR with RELIEF & ANTI-CAV	8-WAY SELECTOR
15 GPM	3WP*1A	3WP*1B	6WP*1A	6WP*1B	8WP*1A
30 GPM	3WP*2A	3WP*2B	6WP*2A	6WP*2B	8WP*2A
60 GPM	3WP*3A	3WP*3B	6WP*3A	6WP*3B	8WP*3A
120 GPM	3WP*4A	3WP*4B	6WP*4A	6WP*4B	8WP*4A
240 GPM	Contact Factory	Contact Factory	Contact Factory	Contact Factory	Contact Factory

\* = "A" for Aluminum Manifold or "D" for Ductile Iron Manifold

## Two-Speed Line Mount and Sandwich Valves

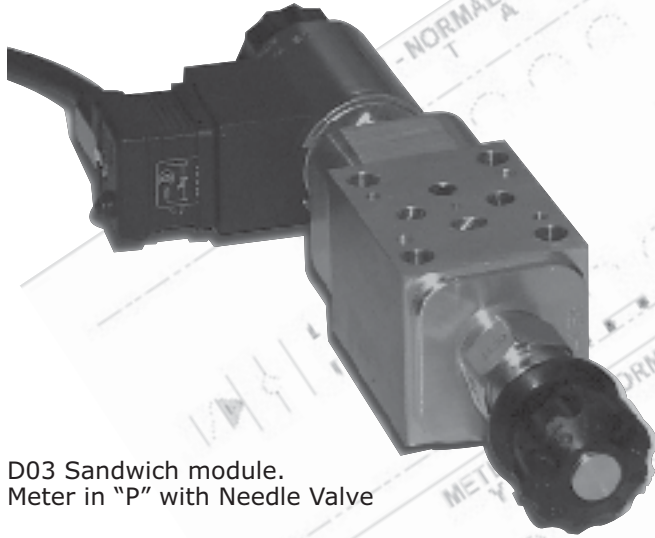
### Rapid Advance And Feed Valves (RM & RL Series) "Compact Solutions For Two-Speed Applications"

BAR  
MANIFOLDSTAPPING  
PLATESVALVE  
ADAPTERS

SUBPLATES

SUBPLATES  
w/  
CIRCUITSCOVER  
PLATESHEADERS/  
JUNCTIONSDIN  
BODIES

ACCESSORIES

VALVE PACKS  
& CUSTOMSTECHNICAL  
INFO

D03 Sandwich module.  
Meter in "P" with Needle Valve

#### D03, D05, D07 & D08 Sandwich Modules (RM)

##### *Circuits available:*

- Meter In "P"
- Meter Out "A"
- Meter In "A"
- Meter Out "B"
- Meter In "B"
- Meter Out "T"

and

#### Line Mounted Bodies (RL)

##### *Porting available:*

- SAE
- BSPP
- Metric
- NPT
- BSPT
- SAE Flange

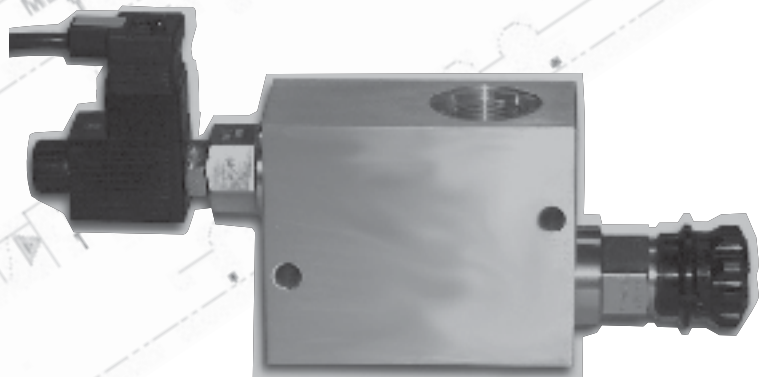
**Available in aluminum or ductile iron  
with flow rates up to 120 GPM**

Normally open or closed solenoid options. Coil voltages from 12 VDC to 230 VAC.

Flow control options include needle valve, flow control with reverse free flow check, or pressure compensated flow control.

All valves are available with adjustment screw, hand knob, calibrated hand knob or fixed settings.

Seals are Buna 'N' or Viton®.



Inline Model with SAE 16 Ports and Pressure Compensated Flow Control.

## Two-Speed Sandwich Module P/N System

**EXAMPLE :** 2 Speed in Aluminum with D03 Module M/I P or M/O T, 12 GPM Normally Closed Spool Solenoid with 24 Vdc DIN Coil and Lighted Connector and NFCC LCN Needle

RMA03G1EPLCN24D

TYPE	MATERIAL	INTERFACE	CIRCUIT, (* = CONTROL) & FLOW RANGE	CONTROL OPTIONS	SEAL COMPOUND	REST CONDITION	VOLTAGE	CONNECTOR OPTIONS																																																															
RM 2 Speed (RAF) Sandwich Module	A Aluminum																																																																						
	D Ductile Iron																																																																						
			<table border="1"> <thead> <tr> <th>CODE</th> <th>ADJUSTMENT TYPE</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>Standard Screw</td> </tr> <tr> <td>K</td> <td>Hand-Knob</td> </tr> <tr> <td>H</td> <td>Calibrated Hand-Knob</td> </tr> </tbody> </table>	CODE	ADJUSTMENT TYPE	L	Standard Screw	K	Hand-Knob	H	Calibrated Hand-Knob	<table border="1"> <thead> <tr> <th>CODE</th> <th>SOLENOID</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>Normally Closed (slow)</td> </tr> <tr> <td>H</td> <td>Normally Open (fast)</td> </tr> </tbody> </table>	CODE	SOLENOID	C	Normally Closed (slow)	H	Normally Open (fast)	<table border="1"> <thead> <tr> <th>CODE</th> <th>TYPE</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Buna</td> </tr> <tr> <td>V</td> <td>Viton</td> </tr> </tbody> </table>	CODE	TYPE	N	Buna	V	Viton		<table border="1"> <thead> <tr> <th>CODE</th> <th>VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>110 Vac</td> </tr> <tr> <td>12</td> <td>12 Vdc</td> </tr> <tr> <td>24</td> <td>24 Vdc</td> </tr> <tr> <td>23</td> <td>230 Vac</td> </tr> </tbody> </table>	CODE	VOLTAGE	11	110 Vac	12	12 Vdc	24	24 Vdc	23	230 Vac	<table border="1"> <thead> <tr> <th>Code</th> <th>CONNECTOR OPTIONS</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>DIN W/ NO CONNECTOR</td> </tr> <tr> <td>A</td> <td>Std. DIN Connector (PG9)</td> </tr> <tr> <td>B</td> <td>Std. DIN Connector (PG11)</td> </tr> <tr> <td>C</td> <td>DIN w/ LED+VDR (PG9)</td> </tr> <tr> <td>D</td> <td>DIN w/ LED &amp; VDR (PG11)</td> </tr> </tbody> </table>	Code	CONNECTOR OPTIONS	2	DIN W/ NO CONNECTOR	A	Std. DIN Connector (PG9)	B	Std. DIN Connector (PG11)	C	DIN w/ LED+VDR (PG9)	D	DIN w/ LED & VDR (PG11)																					
CODE	ADJUSTMENT TYPE																																																																						
L	Standard Screw																																																																						
K	Hand-Knob																																																																						
H	Calibrated Hand-Knob																																																																						
CODE	SOLENOID																																																																						
C	Normally Closed (slow)																																																																						
H	Normally Open (fast)																																																																						
CODE	TYPE																																																																						
N	Buna																																																																						
V	Viton																																																																						
CODE	VOLTAGE																																																																						
11	110 Vac																																																																						
12	12 Vdc																																																																						
24	24 Vdc																																																																						
23	230 Vac																																																																						
Code	CONNECTOR OPTIONS																																																																						
2	DIN W/ NO CONNECTOR																																																																						
A	Std. DIN Connector (PG9)																																																																						
B	Std. DIN Connector (PG11)																																																																						
C	DIN w/ LED+VDR (PG9)																																																																						
D	DIN w/ LED & VDR (PG11)																																																																						
			<table border="1"> <thead> <tr> <th>CODE</th> <th>CIRCUIT / CONTROL / FLOW</th> </tr> </thead> <tbody> <tr> <td>Select One From Below</td> <td>Select one of the corresponding codes inserting Control Option Code where the * is shown</td> </tr> </tbody> </table>	CODE	CIRCUIT / CONTROL / FLOW	Select One From Below	Select one of the corresponding codes inserting Control Option Code where the * is shown																																																																
CODE	CIRCUIT / CONTROL / FLOW																																																																						
Select One From Below	Select one of the corresponding codes inserting Control Option Code where the * is shown																																																																						
			<table border="1"> <thead> <tr> <th>CODE</th> <th>INTER-FACE</th> <th>FUNCTION</th> <th>SOLENOID TYPE</th> <th>FLOW GPM Max / Nom</th> <th>STACK HEIGHT</th> </tr> </thead> <tbody> <tr> <td rowspan="6">03G</td> <td rowspan="3">NFPA DO3 "NG6"</td> <td rowspan="3">M/I P or M/O T</td> <td>DIRECT ACTING SPOOL</td> <td>12 / 5</td> <td rowspan="6">1.75"</td> </tr> <tr> <td>DIRECT ACTING POPPET</td> <td>11 / 5</td> </tr> <tr> <td>PILOT OPERATED POPPET</td> <td>15 +</td> </tr> <tr> <td rowspan="3">M/I or M/O A or B</td> <td>DIRECT ACTING SPOOL</td> <td>12 / 5</td> </tr> <tr> <td>DIRECT ACTING POPPET</td> <td>11 / 5</td> </tr> <tr> <td>PILOT OPERATED POPPET</td> <td>15 +</td> </tr> </tbody> </table>	CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT	03G	NFPA DO3 "NG6"	M/I P or M/O T	DIRECT ACTING SPOOL	12 / 5	1.75"	DIRECT ACTING POPPET	11 / 5	PILOT OPERATED POPPET	15 +	M/I or M/O A or B	DIRECT ACTING SPOOL	12 / 5	DIRECT ACTING POPPET	11 / 5	PILOT OPERATED POPPET	15 +	<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle With FF Check</td> <td></td> </tr> <tr> <td>1AA * C</td> <td>0 - 0.19" orifice</td> </tr> <tr> <td>1BA * C</td> <td></td> </tr> <tr> <td>1CA * C</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle With FF Check		1AA * C	0 - 0.19" orifice	1BA * C		1CA * C		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle</td> <td></td> </tr> <tr> <td>1EP * C</td> <td>0 - 0.19" orifice</td> </tr> <tr> <td>1FP * C</td> <td></td> </tr> <tr> <td>1GP * C</td> <td></td> </tr> <tr> <td>1EA * C</td> <td></td> </tr> <tr> <td>1FA * C</td> <td></td> </tr> <tr> <td>1GA * C</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle		1EP * C	0 - 0.19" orifice	1FP * C		1GP * C		1EA * C		1FA * C		1GA * C		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; PC Flow Control</td> <td></td> </tr> <tr> <td>1NP * A</td> <td>0.1 - 6 GPM</td> </tr> <tr> <td>1OP * A</td> <td></td> </tr> <tr> <td>1PP * A</td> <td></td> </tr> <tr> <td>1NA * A</td> <td></td> </tr> <tr> <td>1OA * A</td> <td></td> </tr> <tr> <td>1PA * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & PC Flow Control		1NP * A	0.1 - 6 GPM	1OP * A		1PP * A		1NA * A		1OA * A		1PA * A	
CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT																																																																		
03G	NFPA DO3 "NG6"	M/I P or M/O T	DIRECT ACTING SPOOL	12 / 5	1.75"																																																																		
			DIRECT ACTING POPPET	11 / 5																																																																			
			PILOT OPERATED POPPET	15 +																																																																			
	M/I or M/O A or B	DIRECT ACTING SPOOL	12 / 5																																																																				
		DIRECT ACTING POPPET	11 / 5																																																																				
		PILOT OPERATED POPPET	15 +																																																																				
CODE	RANGE																																																																						
Solenoid & Needle With FF Check																																																																							
1AA * C	0 - 0.19" orifice																																																																						
1BA * C																																																																							
1CA * C																																																																							
CODE	RANGE																																																																						
Solenoid & Needle																																																																							
1EP * C	0 - 0.19" orifice																																																																						
1FP * C																																																																							
1GP * C																																																																							
1EA * C																																																																							
1FA * C																																																																							
1GA * C																																																																							
CODE	RANGE																																																																						
Solenoid & PC Flow Control																																																																							
1NP * A	0.1 - 6 GPM																																																																						
1OP * A																																																																							
1PP * A																																																																							
1NA * A																																																																							
1OA * A																																																																							
1PA * A																																																																							
			<table border="1"> <thead> <tr> <th>CODE</th> <th>INTER-FACE</th> <th>FUNCTION</th> <th>SOLENOID TYPE</th> <th>FLOW GPM Max / Nom</th> <th>STACK HEIGHT</th> </tr> </thead> <tbody> <tr> <td rowspan="4">05T</td> <td rowspan="4">NFPA DO5 "NG10"</td> <td>M/I P</td> <td rowspan="4">PILOT OPERATED POPPET</td> <td rowspan="4">30 +</td> <td rowspan="4">2.5"</td> </tr> <tr> <td>M/O T</td> </tr> <tr> <td>M/O A or M/I B</td> </tr> <tr> <td>M/O B or M/I A</td> </tr> </tbody> </table>	CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT	05T	NFPA DO5 "NG10"	M/I P	PILOT OPERATED POPPET	30 +	2.5"	M/O T	M/O A or M/I B	M/O B or M/I A	<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle With FF Check</td> <td></td> </tr> <tr> <td>2AA * C</td> <td>0 - 0.25" orifice</td> </tr> <tr> <td>2BA * C</td> <td></td> </tr> <tr> <td>2CA * C</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle With FF Check		2AA * C	0 - 0.25" orifice	2BA * C		2CA * C		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle</td> <td></td> </tr> <tr> <td>2EP * A</td> <td>0 - 0.25" orifice</td> </tr> <tr> <td>2FP * A</td> <td></td> </tr> <tr> <td>2GP * A</td> <td></td> </tr> <tr> <td>2EA * A</td> <td></td> </tr> <tr> <td>2FA * A</td> <td></td> </tr> <tr> <td>2GA * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle		2EP * A	0 - 0.25" orifice	2FP * A		2GP * A		2EA * A		2FA * A		2GA * A		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; PC Flow Control</td> <td></td> </tr> <tr> <td>2NP * A</td> <td>0 - 12 GPM</td> </tr> <tr> <td>2OP * A</td> <td></td> </tr> <tr> <td>2PP * A</td> <td></td> </tr> <tr> <td>2NA * A</td> <td></td> </tr> <tr> <td>2OA * A</td> <td></td> </tr> <tr> <td>2PA * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & PC Flow Control		2NP * A	0 - 12 GPM	2OP * A		2PP * A		2NA * A		2OA * A		2PA * A									
CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT																																																																		
05T	NFPA DO5 "NG10"	M/I P	PILOT OPERATED POPPET	30 +	2.5"																																																																		
		M/O T																																																																					
		M/O A or M/I B																																																																					
		M/O B or M/I A																																																																					
CODE	RANGE																																																																						
Solenoid & Needle With FF Check																																																																							
2AA * C	0 - 0.25" orifice																																																																						
2BA * C																																																																							
2CA * C																																																																							
CODE	RANGE																																																																						
Solenoid & Needle																																																																							
2EP * A	0 - 0.25" orifice																																																																						
2FP * A																																																																							
2GP * A																																																																							
2EA * A																																																																							
2FA * A																																																																							
2GA * A																																																																							
CODE	RANGE																																																																						
Solenoid & PC Flow Control																																																																							
2NP * A	0 - 12 GPM																																																																						
2OP * A																																																																							
2PP * A																																																																							
2NA * A																																																																							
2OA * A																																																																							
2PA * A																																																																							
			<table border="1"> <thead> <tr> <th>CODE</th> <th>INTER-FACE</th> <th>FUNCTION</th> <th>SOLENOID TYPE</th> <th>FLOW GPM Max / Nom</th> <th>STACK HEIGHT</th> </tr> </thead> <tbody> <tr> <td rowspan="6">07G</td> <td rowspan="6">NFPA DO7 "NG16"</td> <td>M/I P</td> <td rowspan="6">PILOT OPERATED POPPET</td> <td rowspan="6">60 +</td> <td rowspan="6">3.5"</td> </tr> <tr> <td>M/O T</td> </tr> <tr> <td>M/O A</td> </tr> <tr> <td>M/O B</td> </tr> <tr> <td>M/I A</td> </tr> <tr> <td>M/I B</td> </tr> </tbody> </table>	CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT	07G	NFPA DO7 "NG16"	M/I P	PILOT OPERATED POPPET	60 +	3.5"	M/O T	M/O A	M/O B	M/I A	M/I B	<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle With FF Check</td> <td></td> </tr> <tr> <td>3DA * C</td> <td>0 - 0.38" orifice</td> </tr> <tr> <td>3DB * C</td> <td></td> </tr> <tr> <td>3DC * C</td> <td></td> </tr> <tr> <td>3DD * C</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle With FF Check		3DA * C	0 - 0.38" orifice	3DB * C		3DC * C		3DD * C		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle</td> <td></td> </tr> <tr> <td>3EP * A</td> <td>0 - 0.38" orifice</td> </tr> <tr> <td>3FP * A</td> <td></td> </tr> <tr> <td>3GP * A</td> <td></td> </tr> <tr> <td>3EA * A</td> <td></td> </tr> <tr> <td>3FA * A</td> <td></td> </tr> <tr> <td>3GA * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle		3EP * A	0 - 0.38" orifice	3FP * A		3GP * A		3EA * A		3FA * A		3GA * A		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; PC Flow Control</td> <td></td> </tr> <tr> <td>3NP * A</td> <td>0 - 25 GPM</td> </tr> <tr> <td>3OP * A</td> <td></td> </tr> <tr> <td>3PP * A</td> <td></td> </tr> <tr> <td>3QA * A</td> <td></td> </tr> <tr> <td>3QB * A</td> <td></td> </tr> <tr> <td>3QC * A</td> <td></td> </tr> <tr> <td>3QD * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & PC Flow Control		3NP * A	0 - 25 GPM	3OP * A		3PP * A		3QA * A		3QB * A		3QC * A		3QD * A			
CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT																																																																		
07G	NFPA DO7 "NG16"	M/I P	PILOT OPERATED POPPET	60 +	3.5"																																																																		
		M/O T																																																																					
		M/O A																																																																					
		M/O B																																																																					
		M/I A																																																																					
		M/I B																																																																					
CODE	RANGE																																																																						
Solenoid & Needle With FF Check																																																																							
3DA * C	0 - 0.38" orifice																																																																						
3DB * C																																																																							
3DC * C																																																																							
3DD * C																																																																							
CODE	RANGE																																																																						
Solenoid & Needle																																																																							
3EP * A	0 - 0.38" orifice																																																																						
3FP * A																																																																							
3GP * A																																																																							
3EA * A																																																																							
3FA * A																																																																							
3GA * A																																																																							
CODE	RANGE																																																																						
Solenoid & PC Flow Control																																																																							
3NP * A	0 - 25 GPM																																																																						
3OP * A																																																																							
3PP * A																																																																							
3QA * A																																																																							
3QB * A																																																																							
3QC * A																																																																							
3QD * A																																																																							
			<table border="1"> <thead> <tr> <th>CODE</th> <th>INTER-FACE</th> <th>FUNCTION</th> <th>SOLENOID TYPE</th> <th>FLOW GPM Max / Nom</th> <th>STACK HEIGHT</th> </tr> </thead> <tbody> <tr> <td rowspan="4">08G</td> <td rowspan="4">NFPA DO8 "NG25"</td> <td>M/I P</td> <td rowspan="4">PILOT OPERATED POPPET</td> <td rowspan="4">60 +</td> <td>3.5"</td> </tr> <tr> <td>M/O T</td> <td>4.5"</td> </tr> <tr> <td>M/O A</td> <td></td> </tr> <tr> <td>M/O B</td> <td></td> </tr> </tbody> </table>	CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT	08G	NFPA DO8 "NG25"	M/I P	PILOT OPERATED POPPET	60 +	3.5"	M/O T	4.5"	M/O A		M/O B		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle With FF Check</td> <td></td> </tr> <tr> <td>3DA * C</td> <td>0 - 0.38" orifice</td> </tr> <tr> <td>3DB * C</td> <td></td> </tr> <tr> <td>3DC * C</td> <td></td> </tr> <tr> <td>3DD * C</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle With FF Check		3DA * C	0 - 0.38" orifice	3DB * C		3DC * C		3DD * C		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; Needle</td> <td></td> </tr> <tr> <td>3GP * A</td> <td>0 - 0.38" orifice</td> </tr> <tr> <td>3GT * A</td> <td></td> </tr> <tr> <td>3HA * A</td> <td></td> </tr> <tr> <td>3HB * A</td> <td></td> </tr> <tr> <td>3HC * A</td> <td></td> </tr> <tr> <td>3HD * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & Needle		3GP * A	0 - 0.38" orifice	3GT * A		3HA * A		3HB * A		3HC * A		3HD * A		<table border="1"> <thead> <tr> <th>CODE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>Solenoid &amp; PC Flow Control</td> <td></td> </tr> <tr> <td>3NP * A</td> <td>0 - 25 GPM</td> </tr> <tr> <td>3PT * A</td> <td></td> </tr> <tr> <td>3QA * A</td> <td></td> </tr> <tr> <td>3QB * A</td> <td></td> </tr> <tr> <td>3QC * A</td> <td></td> </tr> <tr> <td>3QD * A</td> <td></td> </tr> </tbody> </table>	CODE	RANGE	Solenoid & PC Flow Control		3NP * A	0 - 25 GPM	3PT * A		3QA * A		3QB * A		3QC * A		3QD * A				
CODE	INTER-FACE	FUNCTION	SOLENOID TYPE	FLOW GPM Max / Nom	STACK HEIGHT																																																																		
08G	NFPA DO8 "NG25"	M/I P	PILOT OPERATED POPPET	60 +	3.5"																																																																		
		M/O T			4.5"																																																																		
		M/O A																																																																					
		M/O B																																																																					
CODE	RANGE																																																																						
Solenoid & Needle With FF Check																																																																							
3DA * C	0 - 0.38" orifice																																																																						
3DB * C																																																																							
3DC * C																																																																							
3DD * C																																																																							
CODE	RANGE																																																																						
Solenoid & Needle																																																																							
3GP * A	0 - 0.38" orifice																																																																						
3GT * A																																																																							
3HA * A																																																																							
3HB * A																																																																							
3HC * A																																																																							
3HD * A																																																																							
CODE	RANGE																																																																						
Solenoid & PC Flow Control																																																																							
3NP * A	0 - 25 GPM																																																																						
3PT * A																																																																							
3QA * A																																																																							
3QB * A																																																																							
3QC * A																																																																							
3QD * A																																																																							

**NOTES:**  
M/I = METER IN  
M/O = METER OUT  
Solenoid Performance varies - Contact Factory regarding your application

**Solenoid Schematics**  
D A SPOOL    D A POPPET    P O POPPET

\* Normally Closed valves shown for reference

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

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

Lynch Products Can Be Modified to Suit Your Application

Phone: 1 (888) 626-4365 or + 1 (905) 363-2400 Fax: 1 (800) 263-5807 or + 1 (905) 363-1191 www.lynch.ca



## Request For Engineered Project - Page 1

<b>Company:</b>	<b>Phone:</b>
<b>Address:</b>	<b>Fax No:</b>
	<b>E-mail:</b>
<b>Contact:</b>	<b>Reference Number:</b>

### APPLICATION NOTES

**Project Status:**  Final and Production Ready  Ready for Proto-Types  Preliminary

**Quantities:** \_\_\_\_\_ per Order \_\_\_\_\_ per Month \_\_\_\_\_ per Year Other \_\_\_\_\_

**Delivery:** Proto-Types \_\_\_\_\_ First Release \_\_\_\_\_ Production \_\_\_\_\_

**Price Range:** \_\_\_\_\_

**Drawing or Schematic Available:**  YES, See attached DWG No: \_\_\_\_\_  
 NO, See Information Below

**Material:**  Aluminum 6061-T6  Aluminum Other \_\_\_\_\_  
 Ductile Iron 65-45-12  Steel - Grade \_\_\_\_\_  Stainless Steel - Grade \_\_\_\_\_  
 Other \_\_\_\_\_

**Finish:**  NONE  Anodizing - Clear  Anodizing - Hard Coat  Anodizing - Color \_\_\_\_\_  
 Black Oxide  Electroless Nickel Plating  Other \_\_\_\_\_  
 To Standard Specification \_\_\_\_\_

**Valving:**  NONE - Block Only Required  As per B.O.M. Supplied  Free issued and Installed by Lynch  
 At Lynch's discretion meeting specification  Substitutions to B.O.M. OKAY  Other \_\_\_\_\_

**Porting:**  SAE (ISO 11926-1)  NPTF (SAE J476)  Other (please specify standard below)  
 BSPP (ISO 1179-1)  Metric (ISO 6179) \_\_\_\_\_

**Mounting:**  Tapped Mounting Holes - # & Where \_\_\_\_\_  Lynch Bar Manifold Bracket Type  Most Economical  
 Through Mounting Holes - # & Where \_\_\_\_\_  Other - Specify \_\_\_\_\_  
 UNC \_\_\_\_\_  Metric \_\_\_\_\_

### System Specification

**Design Flows:** Max Pump Flow \_\_\_\_\_ Max System Flow \_\_\_\_\_

**System Pressure:** Duty Cycle \_\_\_\_\_ Working Pressure \_\_\_\_\_ Peak Pressure \_\_\_\_\_

**Fluids:** Type \_\_\_\_\_ Temperature \_\_\_\_\_ Seals \_\_\_\_\_

**Coil Type:**  12 VDC  24 VDC  110 VAC  220 VAC TERMINATION  DIN  LEADS  OTHER \_\_\_\_\_

**Restrictions:** Overall Limits \_\_\_\_\_ W x \_\_\_\_\_ H x \_\_\_\_\_ L Block Size \_\_\_\_\_ W x \_\_\_\_\_ H x \_\_\_\_\_ L Other \_\_\_\_\_

Please provide a brief description of the application and the system requirements:

---



---



---



---

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

