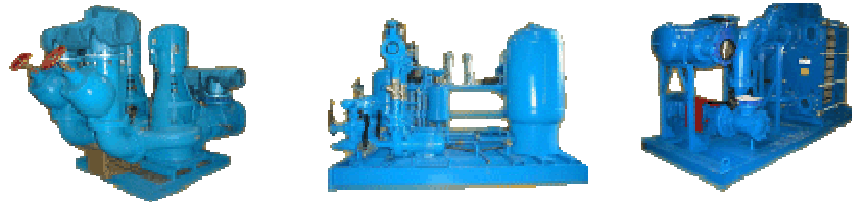


Packaged Pumping Systems Series "FAST PAK"



The Alstrom Corporation designs and manufactures various types of packaged pumping systems for many different applications.

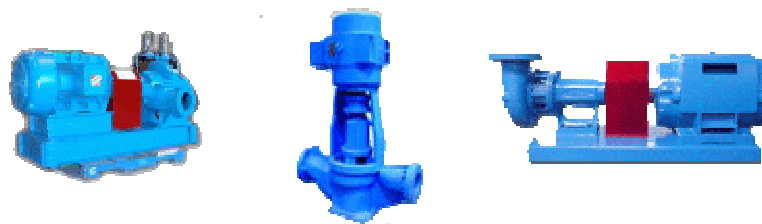


We offer a wide range of packaged HVAC systems to fit your specific needs. Our Packaged Pumping Systems offer the following advantages over field assembled systems: factory hydrostatic, flow and sequence testing, lower installed cost, increased system efficiency, reduced field complexity, single source responsibility, single point power connection, simplified field piping, smaller footprint and more.

- Variable Speed or Constant Speed Pumping
- Primary Chilled Water
- Secondary Chilled Water
- Primary/Secondary Systems
- Heating Water Systems
- Condenser and Feed Water Systems
- Heat Transfer Package Systems
- Fuel Transfer Systems
- Glycol Fill Systems

Everything is self-contained, prewired, installed on the skids and pretested. Custom units are available to meet your specifications.

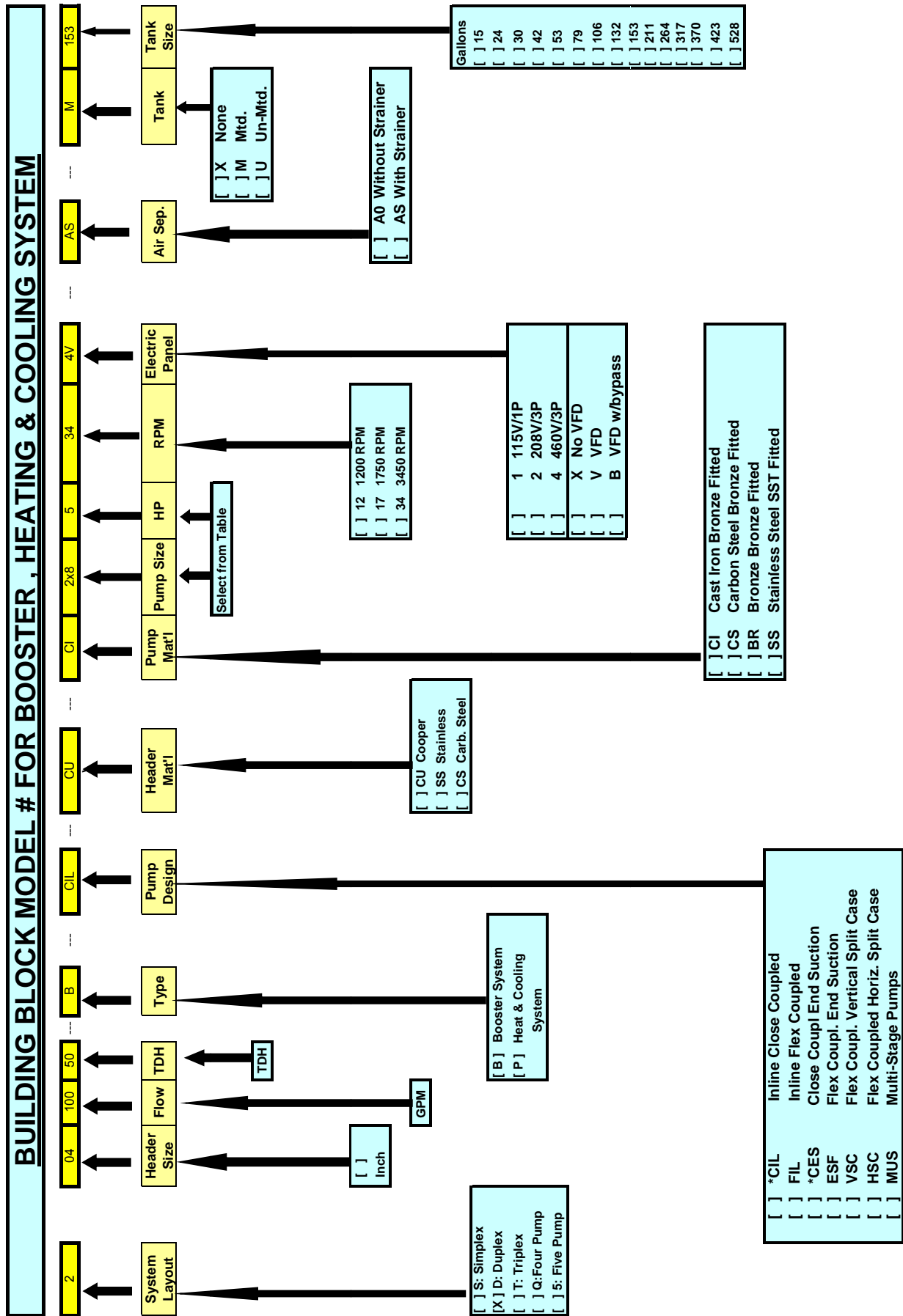
Circulating, Double Suction Centrifugal Stainless Steel, End Suction, Inline, Horizontal Split Case, Multistage, Submersible, Sump and Sewage Column Pumps.



Air Separators, Expansion Tanks, Triple Duty and Balancing Valves, Butterfly Valves, Check Valves, Flexible Hoses, Thermometers, Pressure Gauges.



Packaged Pumping Systems Series "FAST PAK"



**Packaged Pumping Systems
Series "FAST PAK"**



BUILDING BLOCK FOR PUMPING SYSTEM SKIDS

| | | | | | |
|-----|---|---|------|--|---|
| (1) | [] [] [] [] [] | SYSTEM LAYOUT Simplex Duplex Triplex Quadruplex Five Pumps | (8) | [] | PUMP SIZE IN / OUT & CASING SIZE |
| (2) | [] | HEADER SIZE SIZE INCHES | (9) | [] | HP MOTOR 5 ETC |
| (3) | [] | FLOW GPM | (10) | [] [] [] | RPM 1200 RPM 1750 RPM 3450 RPM |
| (4) | [] [] | HEAD PRESSURE TDH | (11) | [] [] [] [] [] [] | ELECTRIC PANEL 115 / 1 Volts 208 / 3 Volts 460 / 3 Volts No VFD Without By Pass With By Pass |
| (5) | [] [] [] [] [] [] [] | PUMP DESIGN *CIL Inline Close Coupled FIL Inline Flex Coupled *CES Close Coupled End Suction ESF Flex Coupled End Suction HSC Flex Coupled Horizontal Frame Split Case VSC Flex Coupled Vertical Frame Split Case MUS Multi-Stage Pumps | (12) | [] [] | AIR SEPERATOR Without Strainer With Strainer |
| (6) | [] [] [] | HEADER MATERIAL Copper Stainless Steel Carbon Steel | (13) | [] [] [] | EXPASION TANK None Mounted Mounted Un- Mounted |
| (7) | [] [] [] [] | PUMP MATERIAL Cast Iron Bronze Fitted Carbon Steel Bronze Fitted Bronze Bronze Fitted Stainless Steel SST Fitted | | | TANK SIZE GALLONS 15, 24, 30, 42, 63, 79, 106, 132, 153, 211, 264, 317, 370, 423, 528 |

Packaged Pumping Systems Series "FAST PAK"



| FAST PAK BOOSTER, HEATING & COOLING PUMPING SYSTEM | | | | | | | | | | | | | |
|--|-------------|-----|----------------|----------------|----------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| FLOW GPM | SIZE INCHES | PSI | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 100 |
| | | | 46 | 58 | 69 | 81 | 92 | 104 | 115 | 139 | 162 | 185 | 231 |
| 50 | | | IL1.255-1.5-34 | IL1.255-1.5-34 | IL1.255-1.5-34 | IL1.255-2-34 | IL1.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 |
| 75 | | | IL1.255-1.5-34 | IL1.255-1.5-34 | IL1.255-2-34 | IL1.255-2-34 | IL1.53-3-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 |
| 100 | | | IL1.255-1.5-34 | IL1.255-2-34 | IL1.255-3-34 | IL1.53-3-34 | IL1.53-3-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 |
| 125 | | | IL1.255-2-34 | IL1.255-2-34 | IL1.255-3-34 | IL1.53-3-34 | IL1.53-3-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 | IL2.255-2-34 |
| 150 | 3 | | IL35-2-34 | IL35-3-34 | IL35-3-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 175 | | | IL35-2-34 | IL35-3-34 | IL35-3-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 200 | | | IL35-2-34 | IL35-3-34 | IL35-3-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 250 | | | IL35-2-34 | IL35-3-34 | IL35-3-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 300 | | | IL35-3-34 | IL35-3-34 | IL35-3-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 350 | | | IL35-3-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 400 | | | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 450 | 4 | | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 | IL35-5-34 |
| 500 | | | IL25-7.5-34 | IL35-7.5-34 | IL37-7.5-34 | IL1.57-10-34 | IL1.57-10-34 | IL1.57-10-34 | IL1.57-10-34 | IL1.57-10-34 | IL1.57-10-34 | IL1.57-10-34 | IL1.57-10-34 |
| 600 | | | ES38-5-17 | ES310-7.5-17 | ES2.510-7.5-17 | ES2.510-10-17 | ES310-15-17 | ES310-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 |
| 700 | | | ES38-5-17 | ES310-7.5-17 | ES310-10-17 | ES310-10-17 | ES310-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 |
| 800 | 6 | | ES310-7.5-17 | ES310-7.5-17 | ES310-10-17 | ES310-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 |
| 900 | | | ES310-7.5-17 | ES310-10-17 | ES310-10-17 | ES310-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 | ES312-15-17 |
| 1000 | | | ES48-7.5-17 | ES310-10-17 | ES310-15-17 | ES310-15-17 | ES410-15-17 | ES312-15-17 | ES312-15-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 |
| 1200 | | | ES410-10-17 | ES410-15-17 | ES310-15-17 | ES410-20-17 | ES410-20-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 |
| 1400 | | | ES410-15-17 | ES410-15-17 | ES410-15-17 | ES410-20-17 | ES412-20-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 | ES412-25-17 |
| 1600 | 8 | | ES410-15-17 | ES410-15-17 | ES410-20-17 | ES412-20-17 | ES412-25-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 |
| 1800 | | | ES510-15-17 | ES510-20-17 | ES510-25-17 | ES412-25-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 |
| 2000 | 10 | | ES510-15-17 | ES510-20-17 | ES510-25-17 | ES510-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 | ES412-30-17 |

CODE: IL35-5-34

ES3 10-15-17

END SUCTION
SIZE 4X3X10
HP 15
RPM 1750

INLINE PUMP
SIZE 3X3X5
HP 5
RPM 3450



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VELOCITY TO GPM CONVERSIONS

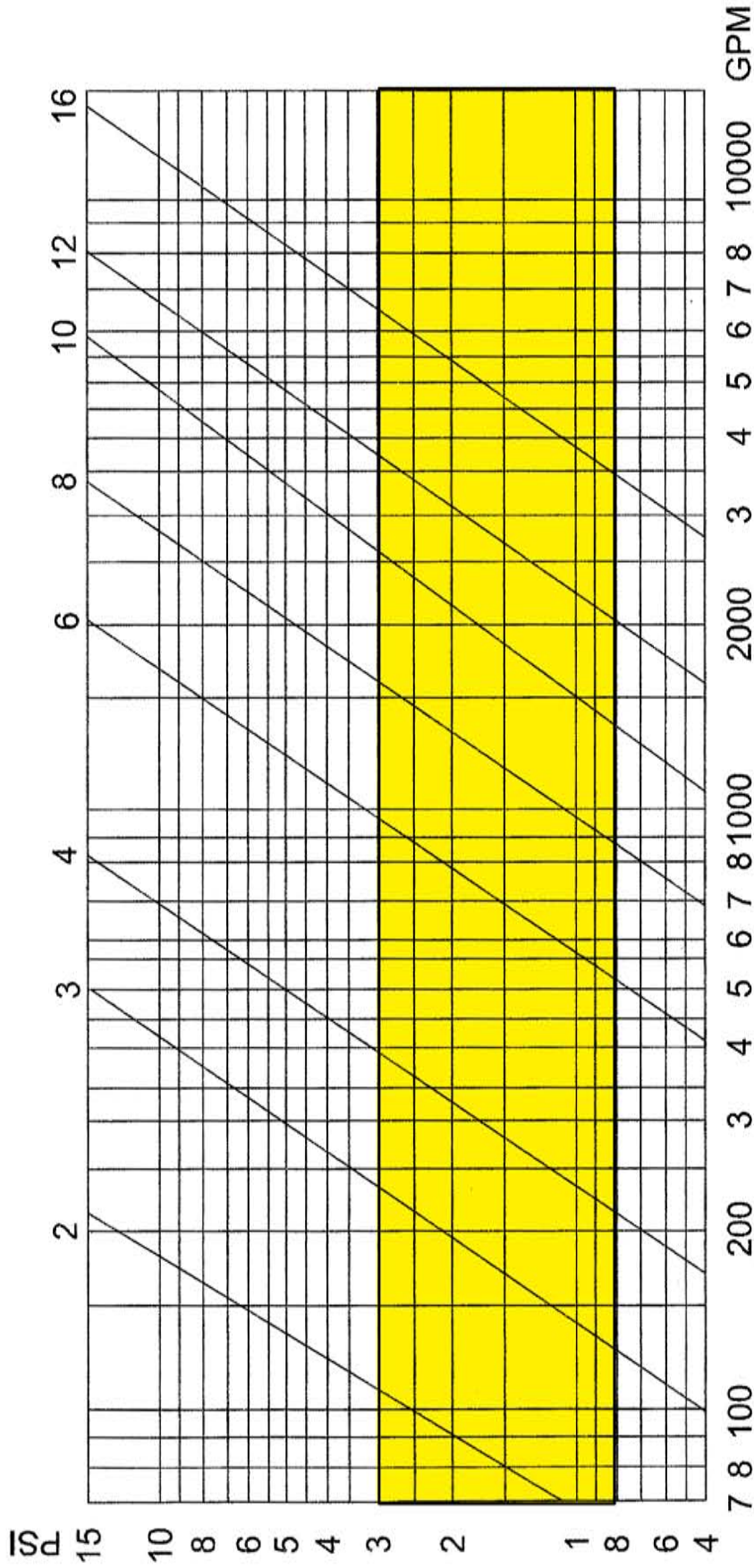
in standard wall pipes*

Flow Velocity (ft/sec) x Factor (1 ft/sec) = GPM

Typical HVAC Design Maximum Flow = 4 to 8 ft/sec

| Nominal Pipe Size | GPM @ 1 ft/sec | GPM @ 2 ft/sec | GPM @ 4 ft/sec | GPM @ 8 ft/sec | GPM @ 10 ft/sec | GPM @ 12 ft/sec |
|-------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| 0.75* | 1.7 | 3.3 | 6.6 | 13 | 17 | 20 |
| 1* | 2.7 | 6 | 12 | 24 | 30 | 36 |
| 1.25* | 4.7 | 9.3 | 19 | 37 | 47 | 56 |
| 1.5* | 6.4 | 13 | 25 | 51 | 64 | 76 |
| 2* | 11 | 21 | 42 | 84 | 105 | 126 |
| 2.5* | 15 | 30 | 60 | 119 | 149 | 179 |
| 3* | 23 | 46 | 92 | 184 | 230 | 279 |
| 4* | 40 | 79 | 159 | 318 | 397 | 476 |
| 6* | 90 | 180 | 360 | 720 | 900 | 1080 |
| 8* | 156 | 312 | 624 | 1248 | 1560 | 1872 |
| 10* | 246 | 492 | 984 | 1968 | 2460 | 2952 |
| 12 | 353 | 706 | 1412 | 2824 | 3530 | 4236 |
| 14 | 430 | 860 | 1720 | 3440 | 4300 | 5160 |
| 16 | 569 | 1138 | 2276 | 4552 | 5690 | 6828 |
| 18 | 728 | 1456 | 2912 | 5824 | 7280 | 8736 |
| 20 | 907 | 1814 | 3628 | 7256 | 9070 | 10884 |
| 24 | 1323 | 2646 | 5292 | 10584 | 13230 | 15876 |
| 30 | 2094 | 4188 | 8378 | 16755 | 20940 | 25133 |
| 36 | 3042 | 6084 | 12168 | 24336 | 30420 | 36504 |
| 42 | 4165 | 8330 | 16660 | 33320 | 41650 | 49980 |
| 48 | 5465 | 10930 | 21861 | 43722 | 54650 | 65583 |

* Standard Wall and Schedule 40 are the same up to 10"



TYPICAL DRAWING, FINALE DIMENSIONS AND DESIGN MAY VARY

TRIPLE DUTY VALVE SELECTION CHART



| | | | |
|-------------------------------------|-----|-------------------|---|
| PROJECT/PROJET | | CUSTOMER / CLIENT | |
| PART LIST N° / LISTE DE MATERIEL N° | | DATE / DATE | |
| DRAWING N° / N° DESSIN | | SERIES MFV | |
| SCALE / ECHELLE | | REV | |
| ALEX V. | N/A | | 0 |

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 Email: info@alstromcorp.com Web: www.alstromcorp.com