Italgroup®
HYDRAULIC MOTORS
ITALY

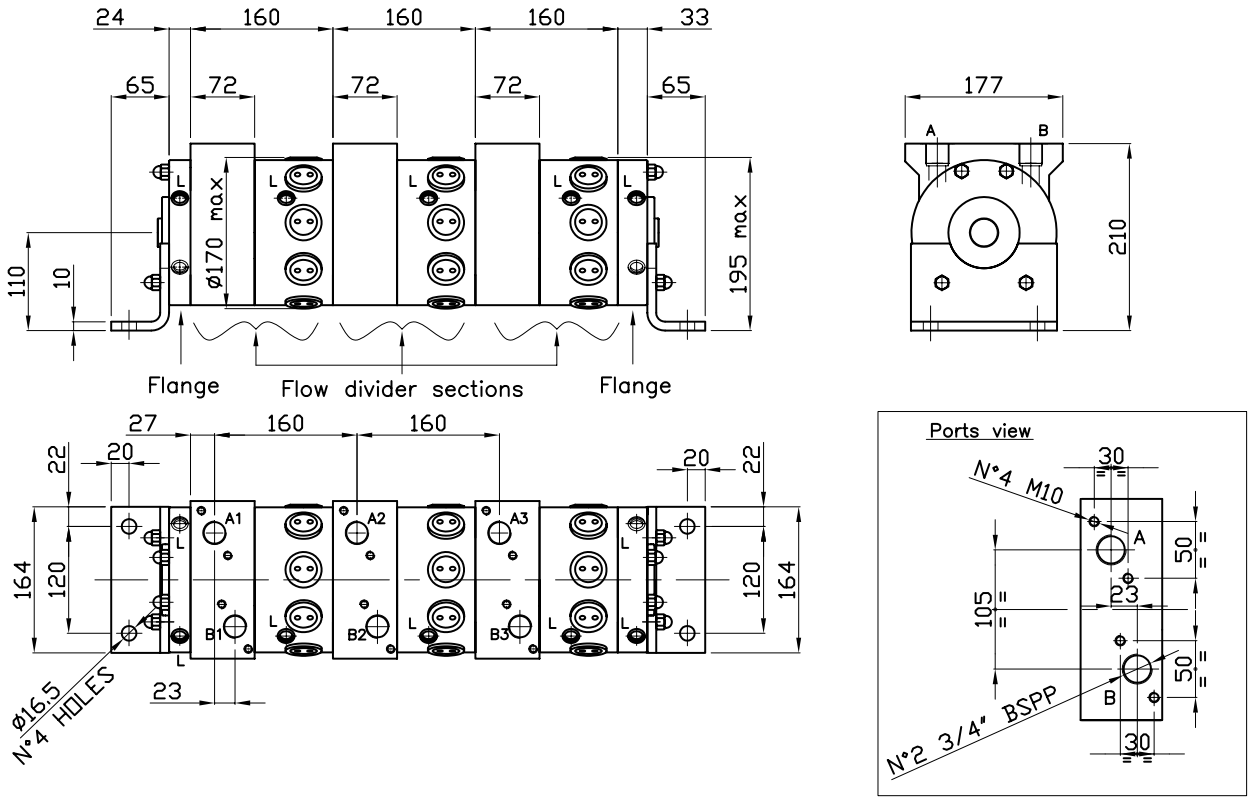
# FLOW DIVIDERS TECHNICAL DATA

| MODEL | | N° of pistons per section | Displacement per section | Pressure | | | Flow per section | | Max power per section | | Dry Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Max Cont. | Max Int. | Max | Max Continuous | Max Int. | | | |
| | | | cc/rev | bar | bar | bar | l/min | l/min | HP | kW | kg |
| FD 20 | FD | 9 | 20 | 250 | 280 | 320 | 25 | 35 | 12 | 9 | 55 |
| FD 27 | | 9 | 27 | 250 | 280 | 320 | 35 | 50 | 16 | 12 | 55 |
| FD 34 | | 9 | 34 | 250 | 280 | 320 | 45 | 60 | 20 | 15 | 55 |
| FD 50 | | 9 | 51 | 250 | 280 | 320 | 60 | 80 | 27 | 20 | 65 |
| FD 75 | | 9 | 76 | 250 | 280 | 320 | 90 | 120 | 41 | 30 | 65 |
| FD 90 | | 9 | 89 | 250 | 280 | 320 | 110 | 140 | 48 | 35 | 65 |
| FD 100 | | 9 | 102 | 250 | 280 | 320 | 125 | 160 | 54 | 40 | 65 |
| FD 1 80 | FD 1 | 5 | 80 | 250 | 280 | 350 | 55 | 65 | 27 | 20 | 90 |
| FD 1 100 | | 5 | 100 | 250 | 280 | 350 | 70 | 85 | 34 | 25 | 90 |
| FD 1 150 | | 5 | 157 | 250 | 280 | 350 | 110 | 130 | 52 | 38 | 90 |
| FD 2 250 | FD 2 | 5 | 253 | 250 | 280 | 350 | 130 | 150 | 61 | 45 | 110 |
| FD 2 350 | | 5 | 362 | 250 | 280 | 350 | 165 | 190 | 79 | 58 | 110 |
| FD 3 400 | FD 3 | 5 | 397 | 250 | 280 | 350 | 170 | 190 | 82 | 60 | 180 |
| FD 3 450 | | 5 | 452 | 250 | 280 | 350 | 190 | 215 | 91 | 67 | 180 |
| FD 3 500 | | 5 | 491 | 250 | 280 | 350 | 210 | 230 | 101 | 74 | 180 |
| FD 3 600 | | 5 | 594 | 250 | 280 | 350 | 230 | 260 | 109 | 80 | 180 |
| FD 4 800 | FD 4 | 5 | 792 | 250 | 280 | 350 | 250 | 295 | 120 | 88 | 230 |
| FD 4 900 | | 5 | 904 | 250 | 280 | 350 | 285 | 335 | 139 | 100 | 230 |
| FD 5 1400 | FD 5 | 5 | 1376 | 250 | 280 | 300 | 290 | 340 | 119 | 87 | 460 |
| FD 5 1500 | | 5 | 1528 | 250 | 280 | 300 | 320 | 375 | 130 | 96 | 460 |
| FD 5 1600 | | 5 | 1648 | 250 | 280 | 300 | 350 | 400 | 143 | 105 | 460 |
| FD 6 2500 | FD 6 | 5 | 2525 | 250 | 280 | 300 | 390 | 460 | 160 | 118 | 900 |
| FD 6 3000 | | 5 | 2983 | 250 | 280 | 300 | 440 | 525 | 179 | 132 | 900 |
| FD 6 3200 | | 5 | 3289 | 250 | 280 | 300 | 460 | 550 | 188 | 138 | 900 |
| FD 6 3500 | | 5 | 3479 | 250 | 280 | 300 | 490 | 590 | 200 | 147 | 900 |
| FDM 34 | FDM | 9 | 34 | 250 | 280 | 320 | 45 | 60 | 20 | 15 | 35 per section |
| FDM 50 | | 9 | 51 | 250 | 280 | 320 | 60 | 80 | 27 | 20 | 45 per section |
| FDM 75 | | 9 | 76 | 250 | 280 | 320 | 90 | 120 | 48 | 35 | 45 per section |
| FDM 100 | | 9 | 102 | 250 | 280 | 320 | 125 | 160 | 54 | 40 | 45 per section |


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# SIZE

## FDM 34 D21

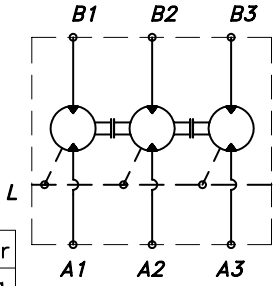



# TECHNICAL DATA

## FDM 34 D21

| MODEL | Flow per section | | Displacement per section cc/Rev | Working pressure | | | Power per section kW |
|---|---|---|---|---|---|---|---|
| | l/min (cont) | l/min (max) | | continuous bar | intermittent bar | maximum bar | |
| FDM34 | 45 | 60 | 34 | 250 | 280 | 320 | 15 |

HYDRAULIC SCHEME




| PORTS DIMENSION | |
|---|---|
| A1,A2,... | 3/4" BSPP |
| B1,B2,... | 3/4" BSPP |
| L | 1/4" BSPP |

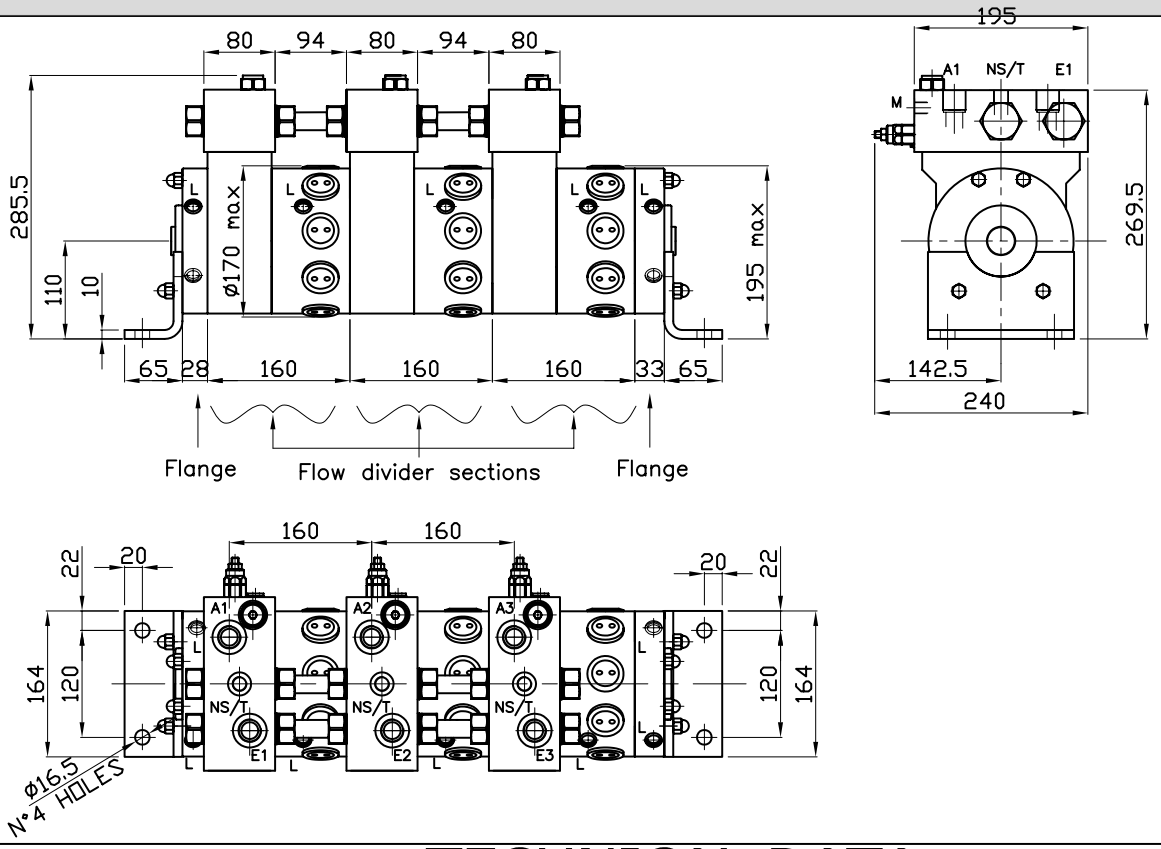
| | |
|---|---|
| max case pressure | 20 bar |
| dry weight per section | 32 kg |

The drain ports (L) are internally connected together. At least one of these drain ports must be connected to the tank. For continuous use, flushing is required.


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# SIZE

## FDM 34 D21 VB




# TECHNICAL DATA

## FDM 34 D21 VB

| MODEL | Flow per section | | Displacement per section cc/Rev | Working pressure | | | Power per section kW |
|---|---|---|---|---|---|---|---|
| | l/min (cont) | l/min (max) | | continuous bar | intermittent bar | maximum bar | |
| FDM34 | 45 | 60 | 34 | 250 | 280 | 320 | 15 |

| PORTS DIMENSION | |
|---|---|
| A1,A2,... | 3/4" BSPP |
| E1,E2,... | 1" BSPP |
| M1,M2,... | 1/4" BSPP |
| L | 1/4" BSPP |
| NS/T | 3/8" BSPP |

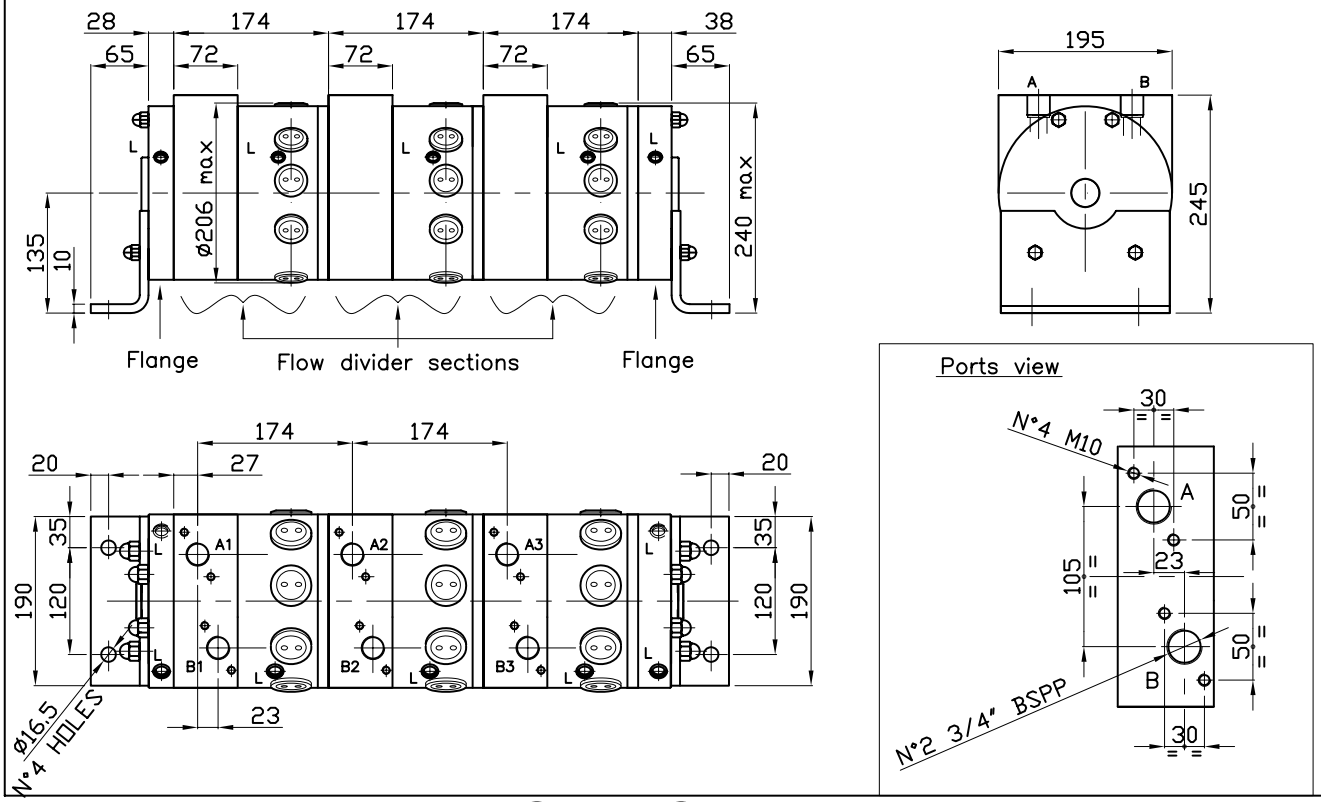
| | |
|---|---|
| max case pressure | 20 bar |
| dry weight per section | 35 kg |

Refer to page 29 for valve technical data, valve dimensions and hydraulic circuit.


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# SIZE

## FDM 50-75-100 D21

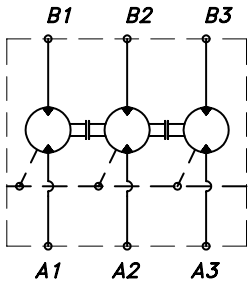



# TECHNICAL DATA

## FDM 50-75-100 D21

| MODEL | Flow per section | | Displacement per section cc/Rev | Working pressure | | | Power per section kW |
|---|---|---|---|---|---|---|---|
| | l/min (cont) | l/min (max) | | continuous bar | intermittent bar | maximum bar | |
| FDM50 | 60 | 80 | 51 | 250 | 280 | 320 | 20 |
| FDM75 | 90 | 120 | 76 | 250 | 280 | 320 | 35 |
| FDM100 | 125 | 160 | 102 | 250 | 280 | 320 | 40 |

HYDRAULIC SCHEME




| PORTS DIMENSION | |
|---|---|
| A1,A2,... | 3/4" BSPP |
| B1,B2,... | 3/4" BSPP |
| L | 3/8" BSPP |

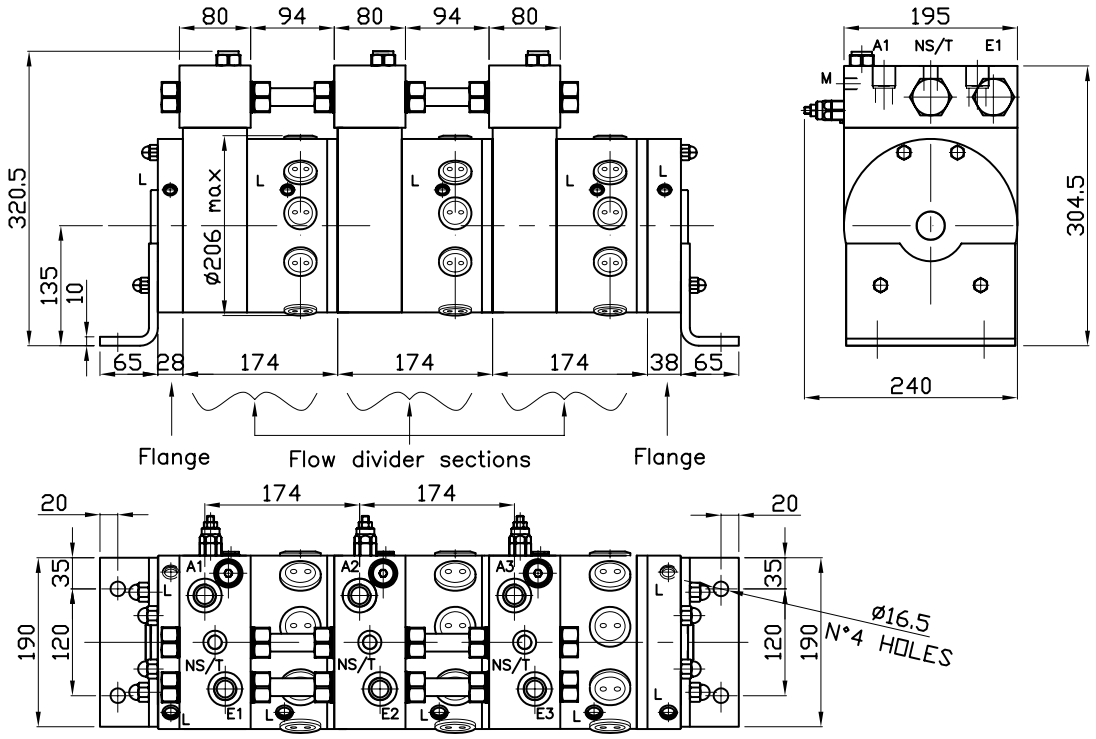
| | |
|---|---|
| max case pressure | 20 bar |
| dry weight per section | 42 kg |

The drain ports (L) are internally connected together. At least one of these drain ports must be connected to the tank. For continuous use, flushing is required.


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# SIZE

## FDM 50-75-100 D21 VB




# TECHNICAL DATA

## FDM 50-75-100 D21 VB

| MODEL | Flow per section | | Displacement per section cc/Rev | Working pressure | | | Power per section kW |
|---|---|---|---|---|---|---|---|
| | l/min (cont) | l/min (max) | | continuous bar | intermittent bar | maximum bar | |
| FDM50 | 60 | 80 | 51 | 250 | 280 | 320 | 20 |
| FDM75 | 90 | 120 | 76 | 250 | 280 | 320 | 35 |
| FDM100 | 125 | 160 | 102 | 250 | 280 | 320 | 40 |

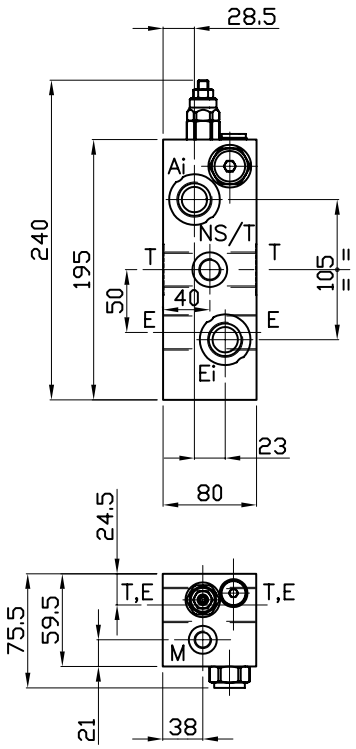
| PORTS DIMENSION | |
|---|---|
| A1,A2,... | 3/4" BSPP |
| E1,E2,... | 1" BSPP |
| M1,M2,... | 1/4" BSPP |
| L | 3/8" BSPP |
| NS/T | 3/8" BSPP |

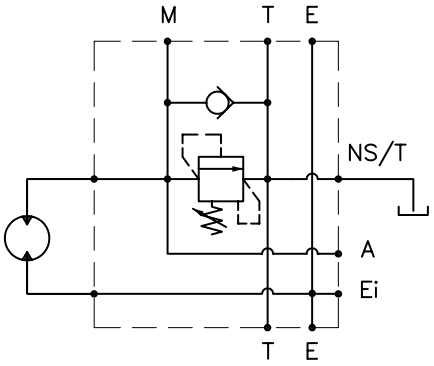
| | |
|---|---|
| max case pressure | 20 bar |
| dry weight per section | 45 kg |

Refer to page 29 for valve technical data, valve dimensions and hydraulic circuit.


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# VALVE DIMENSIONS AND TECHNICAL DATA



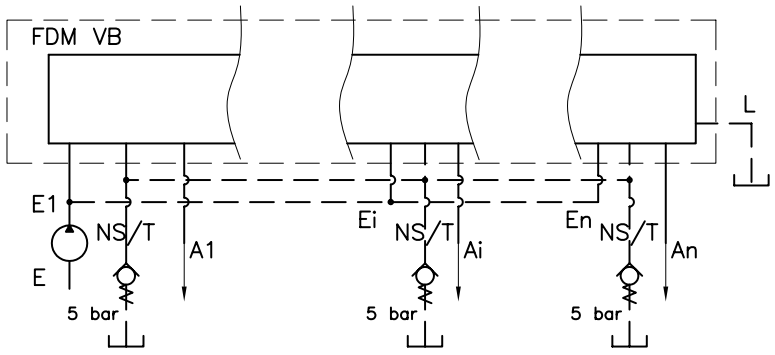




| PORTS DIMENSION | |
|---|---|
| Ai | 3/4" BSPP |
| Ei | 1" BSPP |
| M | 1/4" BSPP |
| NS/T | 3/8" BSPP |
| E | 1" BSPP |

(Ai and Ei are the A and E ports of the i–section)

| *RELIEF VALVE DATA* | |
|---|---|
| *Rated flow* | *40 l/min* |
| *Max pressure* | *350 bar* |

# HYDRAULIC CIRCUIT

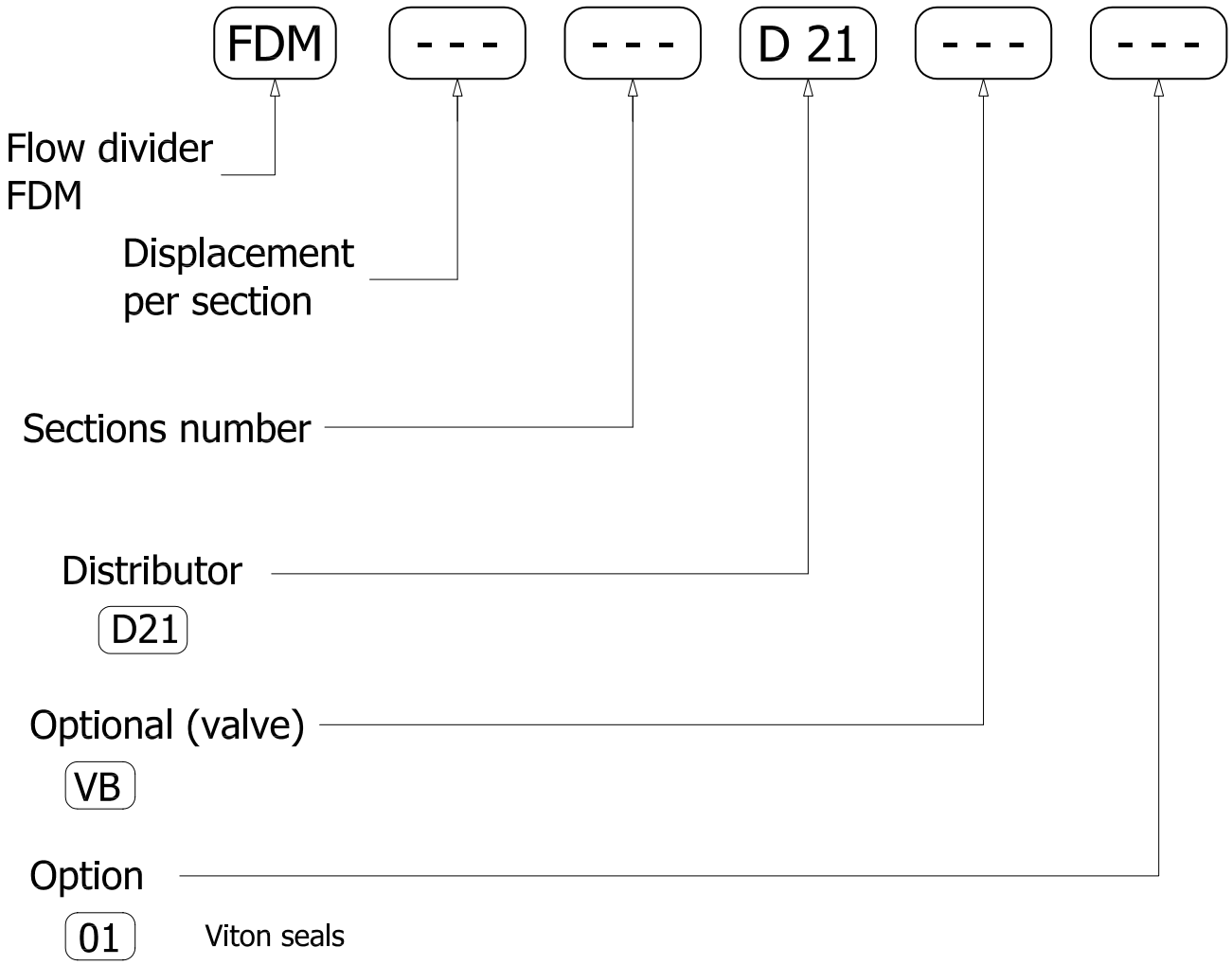



The NS/T port of the valve has to be connected to the tank. If the inlet flow is very high it is necessary to connect more than one inlet port despite all E ports are internally connected together, in order to avoid an excessive pressure drop.

For further information contact Italgroup technical department.


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# *FDM SERIES - ORDERING INSTRUCTIONS*

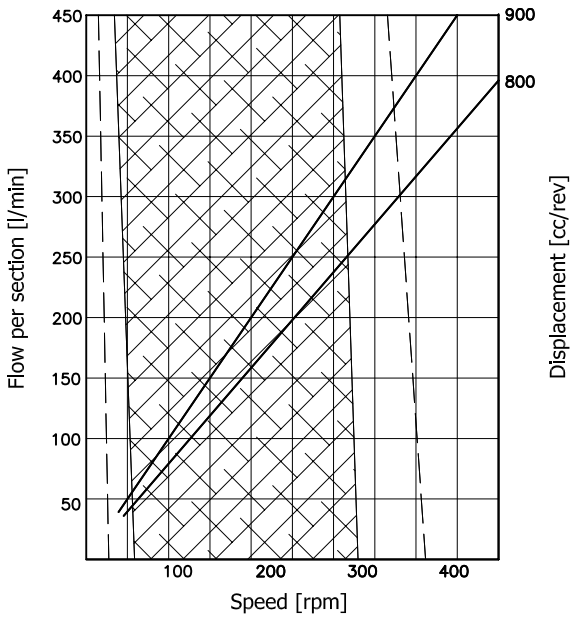



EXAMPLE:
FDM.50-4.D21.VB
FDM.75-3.D21
FDM.100-4.D21
FDM.100-4.D21.01


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Flow dividers selection chart

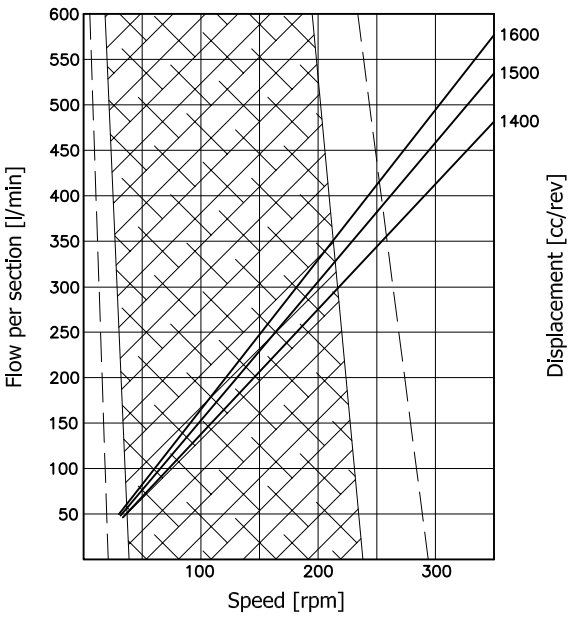
FD 4




Working area  High efficiency area

Flow dividers selection chart

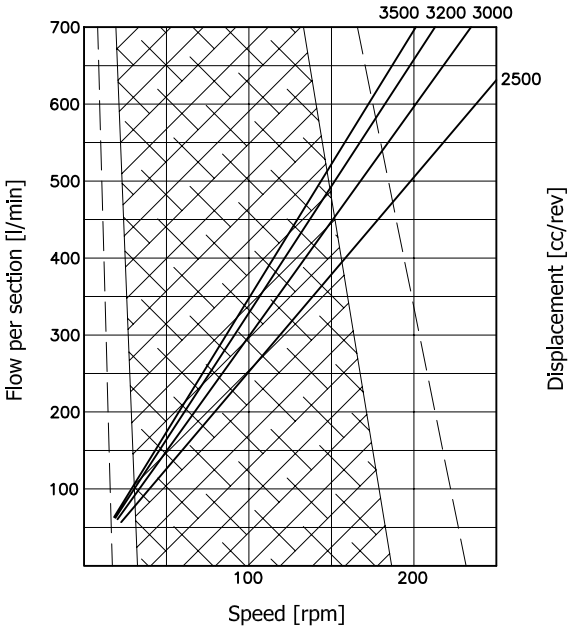
FD 5




Working area  High efficiency area

Flow dividers selection chart

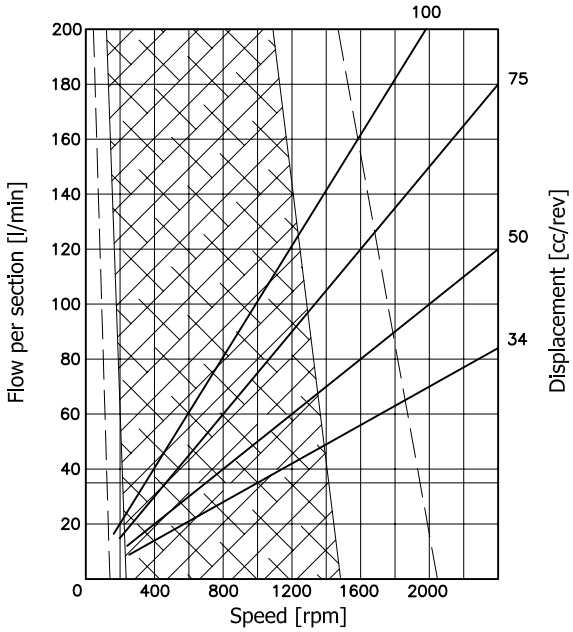
FD 6




Working area  High efficiency area

Flow dividers selection chart

FDM




Working area  High efficiency area


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