Italgroup®
HYDRAULIC MOTORS
ITALY

FLOW DIVIDERS TECHNICAL DATA

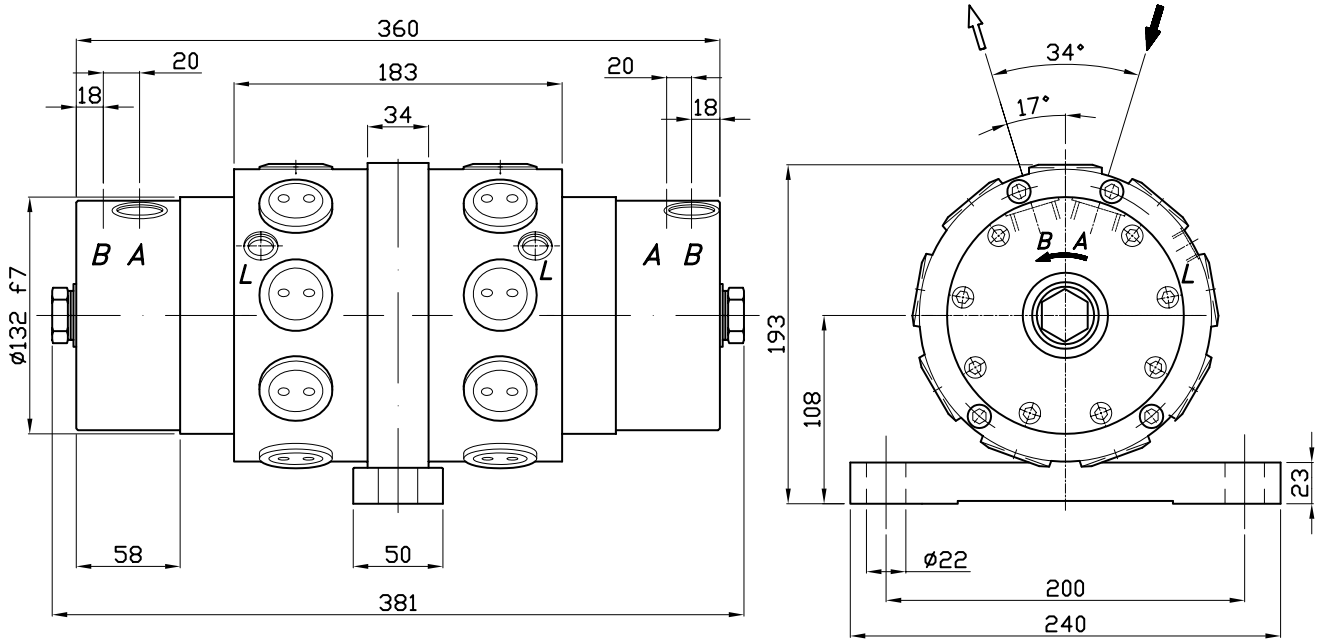
MODEL		N° of pistons per section	Displacement per section	Pressure			Flow per section		Max power per section		Dry Weight
				Max Cont.	Max Int.	Max	Max Continuous	Max Int.			
			cc/rev	bar	bar	bar	l/min	l/min	HP	kW	kg
FD 20	FD	9	20	250	280	320	25	35	12	9	55
FD 27		9	27	250	280	320	35	50	16	12	55
FD 34		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

FD 20-27-34 D20

PORTS	DIMENSION
A,B	3/4" BSPP
L	1/4" BSPP

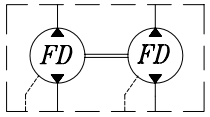


TECHNICAL DATA

FD 20-27-34 D20

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	
FD20	25	35	20	250	280	320	9
FD27	35	50	27	250	280	320	12
FD34	45	60	34	250	280	320	15

Flow Divider Symbol (with 2 sections)

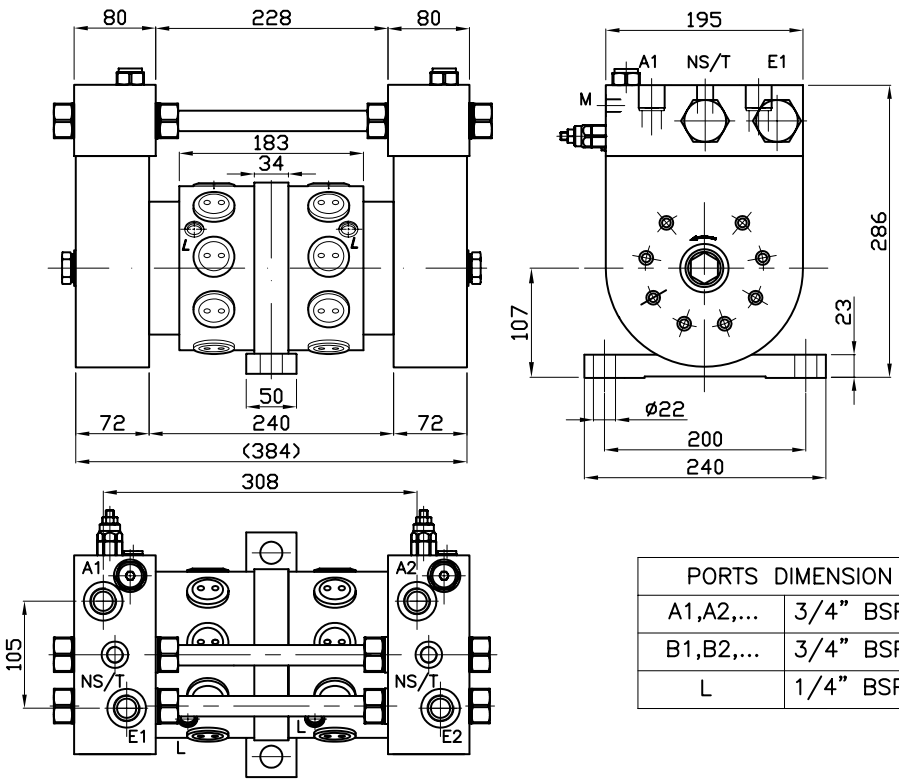


Dry weight	*55 kg*
Max case pressure	*20 bar*

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SIZE

FD 20-27-34 D21 VB



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

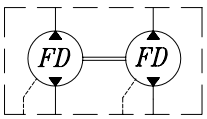
TECHNICAL DATA

FD 20-27-34 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	
FD20	25	35	20	250	280	320	9
FD27	35	50	27	250	280	320	12
FD34	45	60	34	250	280	320	15

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

Flow Divider Symbol (with 2 sections)



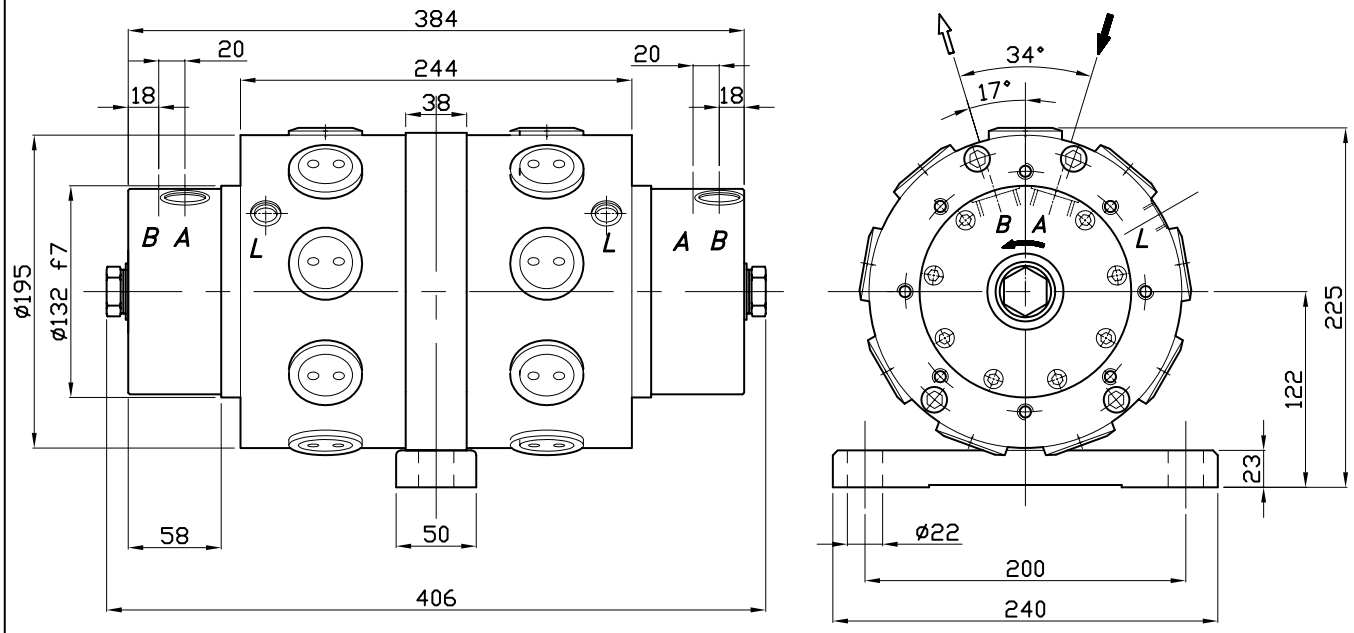
Dry weight	*55 kg*
Max case pressure	*20 bar*

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SIZE

FD 50-75-90-100 D20

PORTS	DIMENSION
A,B	3/4" BSPP
L	1/4" BSPP

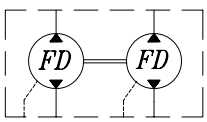


TECHNICAL DATA

FD 50-75-90-100 D20

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	
FD50	60	80	50	250	280	320	20
FD75	90	120	76	250	280	320	30
FD90	110	140	89	250	280	320	35
FD100	125	160	101	250	280	320	40

Flow Divider Symbol (with 2 sections)

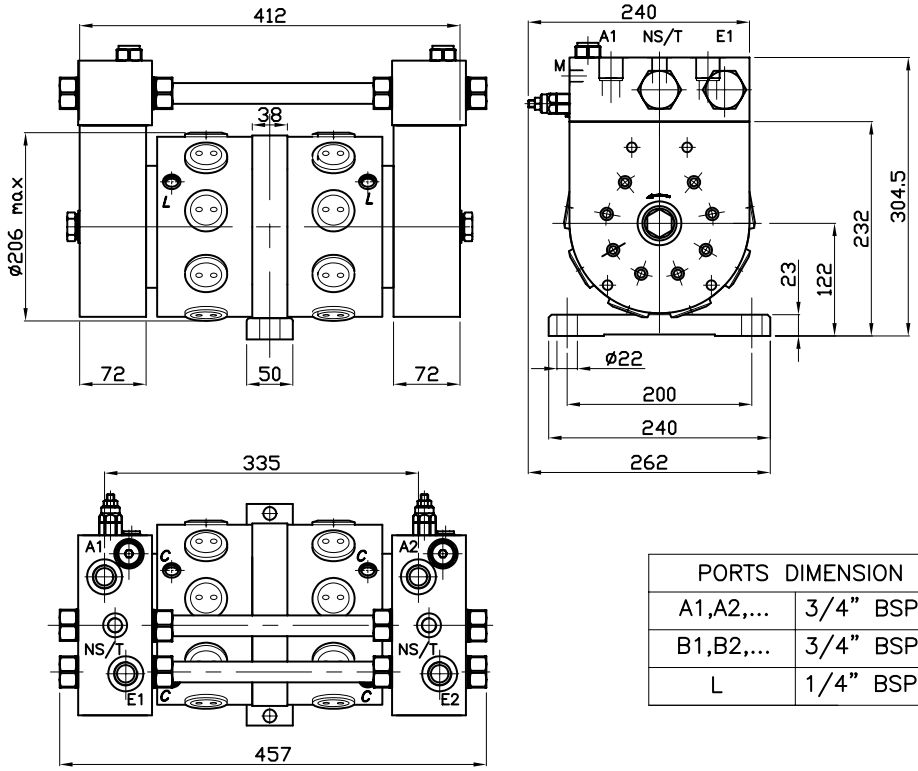


Dry weight	65 kg
Max case pressure	20 bar

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SIZE

FD 50-75-90-100 D21 VB



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

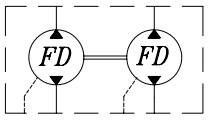
TECHNICAL DATA

FD 50-75-90-100 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	
FD50	60	80	50	250	280	320	20
FD75	90	120	76	250	280	320	30
FD90	110	140	89	250	280	320	35
FD100	125	160	101	250	280	320	40

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

Flow Divider Symbol (with 2 sections)

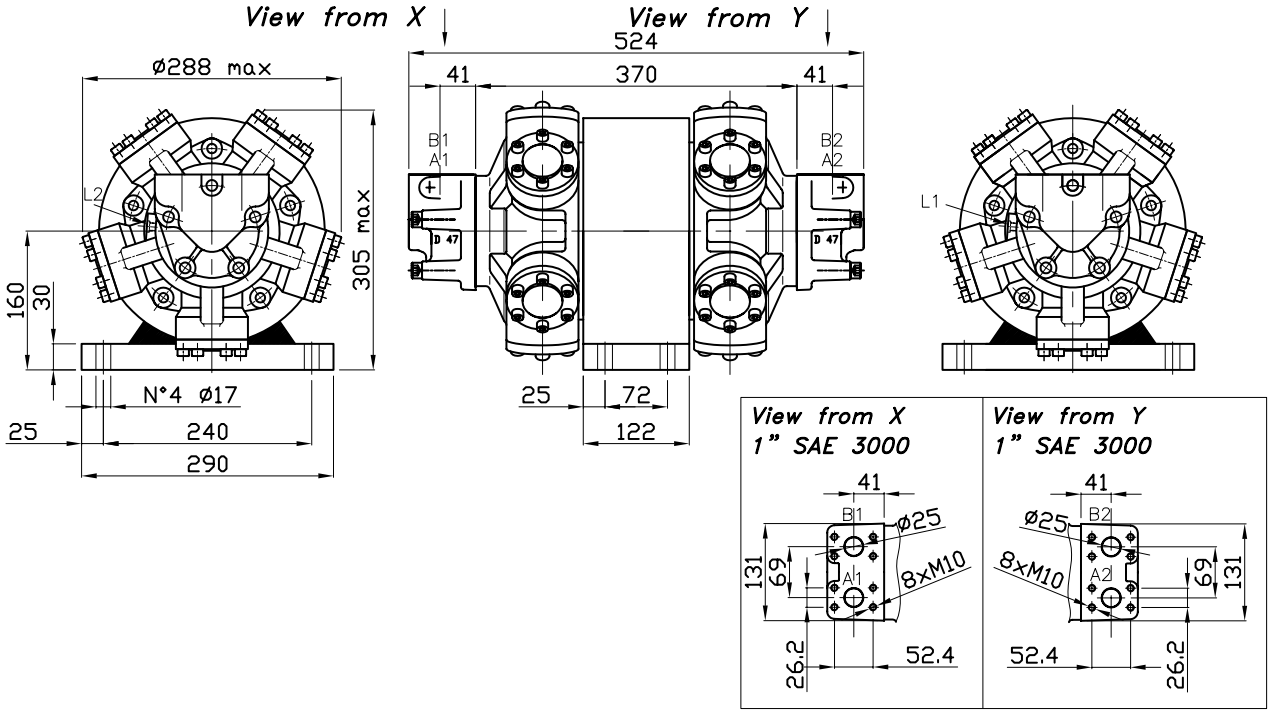


Dry weight	*65 kg*
Max case pressure	*20 bar*

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SIZE

FD 1 80-100-150 D47

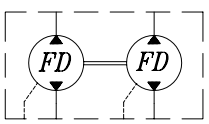


TECHNICAL DATA

FD 1 80-100-150 D47

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	
FD 1 80	55	65	80	250	280	350	20
FD 1 100	70	85	100	250	280	350	25
FD 1 150	110	130	157	250	280	350	38

Flow Divider Symbol (with 2 sections)



PORTS DIMENSION	
L1/L2	3/8" BSP

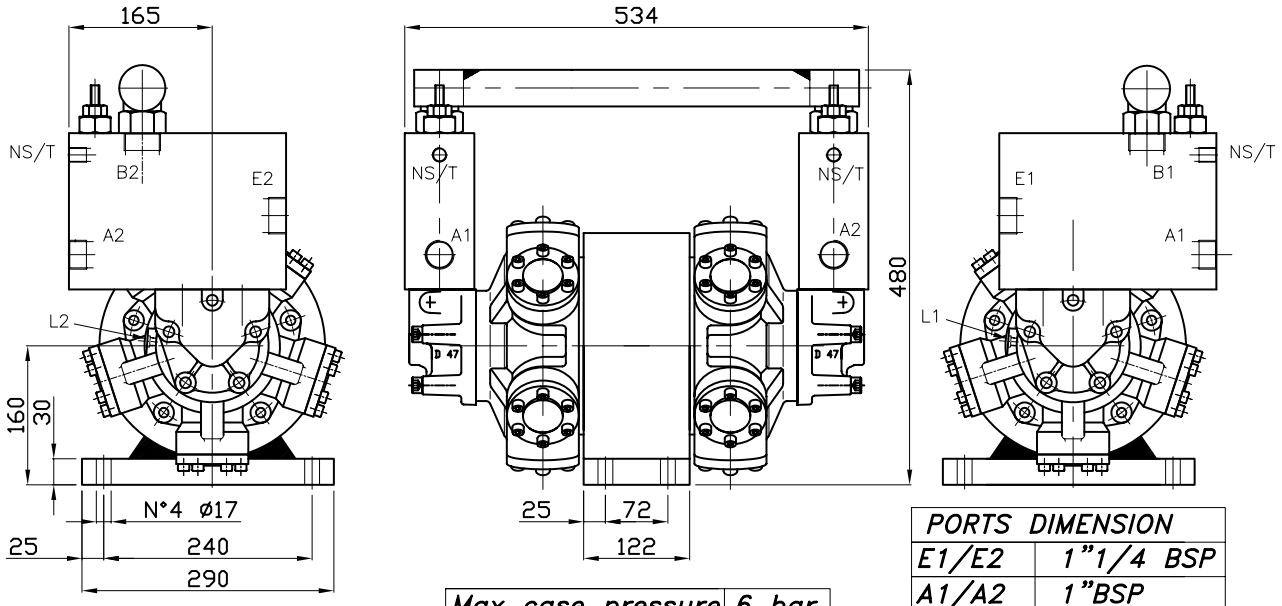
Dry weight	90 kg

Max case pressure	20 bar

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SIZE

FD 1 80-100-150 D47 VB



PORTS DIMENSION	
E1/E2	1"1/4 BSP
A1/A2	1"BSP
NS/T	3/8"BSP
L1/L2	3/8"BSP

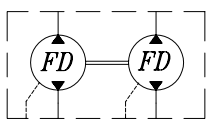
Max case pressure	6 bar

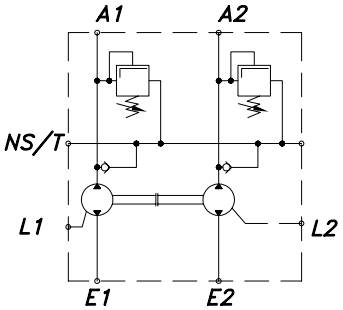
TECHNICAL DATA

FD 1 80-100-150 D47 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	
FD 1 80	55	65	80	250	280	350	20
FD 1 100	70	85	100	250	280	350	25
FD 1 150	110	130	157	250	280	350	38

Flow Divider Symbol (with 2 sections)





RELIEF VALVE DATA	
Rated flow	40 l/min
Adjustable pressure range	5–50 bar
	30–100 bar
	50–220 bar
	80–350 bar

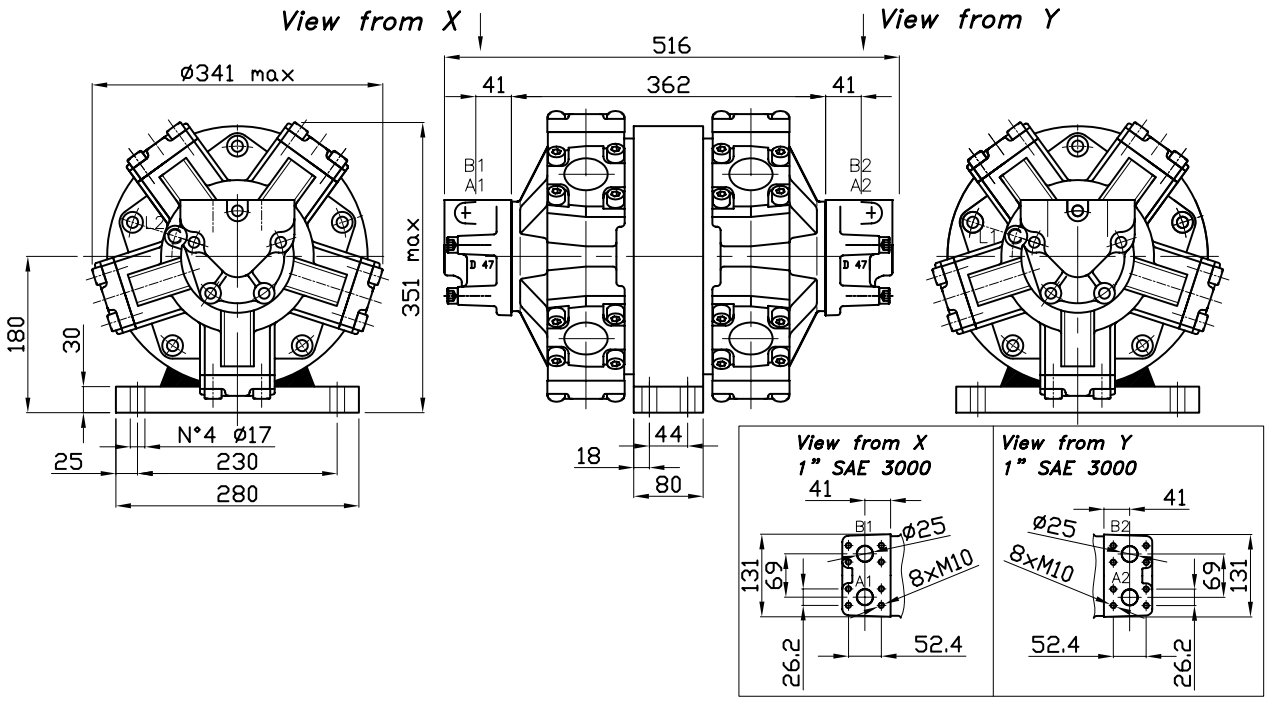
Dry weight	90 kg

Max case pressure	20 bar

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SIZE

FD 2 250-350 D47

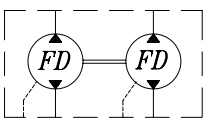


TECHNICAL DATA

FD 2 250-350 D47

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	
FD 2 250	130	150	253	250	280	350	45
FD 2 350	165	190	362	250	280	350	58

Flow Divider Symbol
(with 2 sections)



PORTS DIMENSION	
L1/L2	3/8" BSP

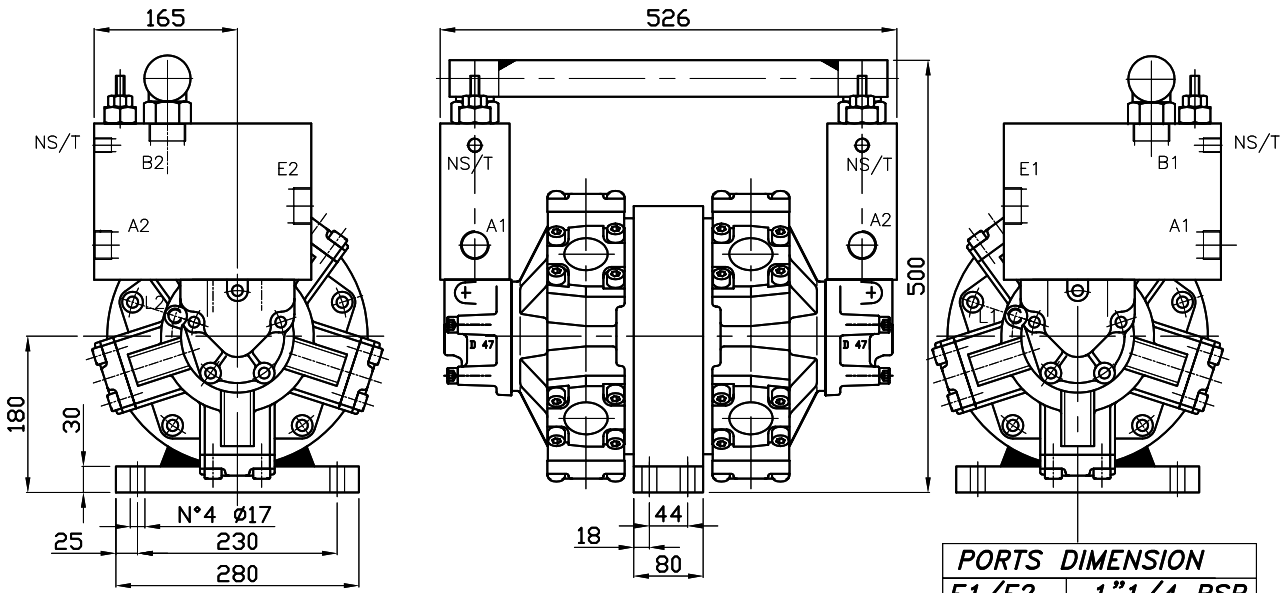
Dry weight	110 kg

Max case pressure	20 bar

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SIZE

FD 2 250-350 D47 VB



Max case pressure	6 bar

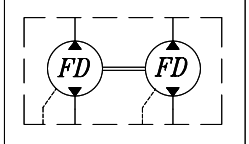
PORTS DIMENSION	
E1/E2	1"1/4 BSP
A1/A2	1"BSP
NS/T	3/8"BSP
L1/L2	3/8"BSP

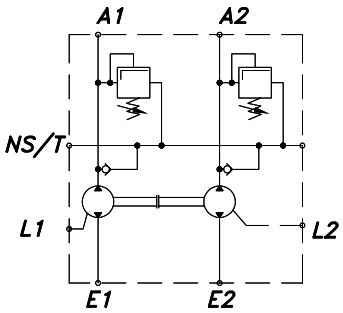
TECHNICAL DATA

FD 2 250-350 D47 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	
FD 2 250	130	150	253	250	280	350	45
FD 2 350	165	190	362	250	280	350	58

Flow Divider Symbol (with 2 sections)





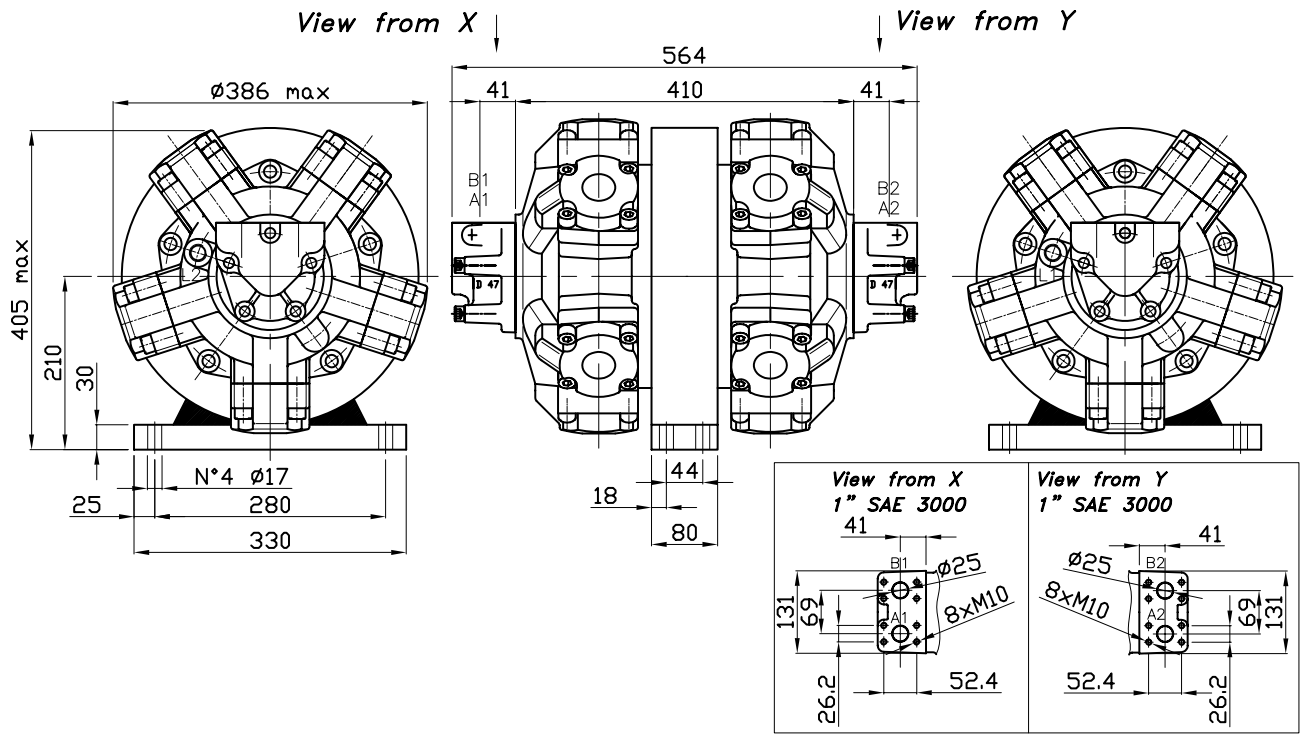
RELIEF VALVE DATA	
Rated flow	40 l/min
Adjustable pressure range	5–50 bar
	30–100 bar
	50–220 bar
	80–350 bar

Dry weight	110 kg
Max case pressure	20 bar

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SIZE

FD 3 400-450-500 D47

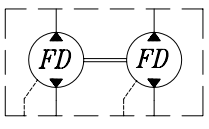


TECHNICAL DATA

FD 3 400-450-500 D47

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	
FD 3 400	170	190	397	250	280	350	60
FD 3 450	190	215	452	250	280	350	67
FD 3 500	210	230	491	250	280	350	74
FD 3 600	230	260	594	250	280	350	80

Flow Divider Symbol (with 2 sections)



PORTS DIMENSION	
L1/L2	1/2" BSP

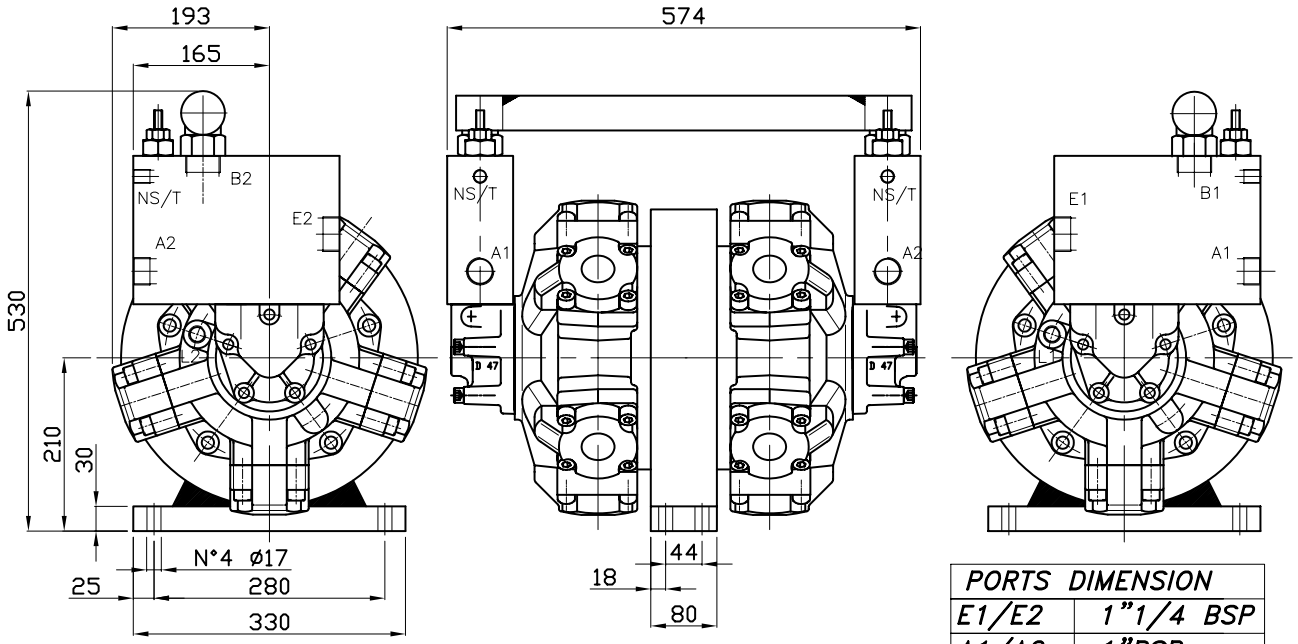
Dry weight	180 kg

Max case pressure	20 bar

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SIZE

FD 3 400-450-500 D47 VB



Max case pressure	6 bar

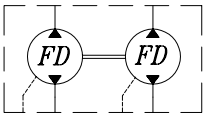
PORTS DIMENSION	
E1/E2	1"1/4 BSP
A1/A2	1"BSP
NS/T	3/8"BSP
L1/L2	1/2"BSP

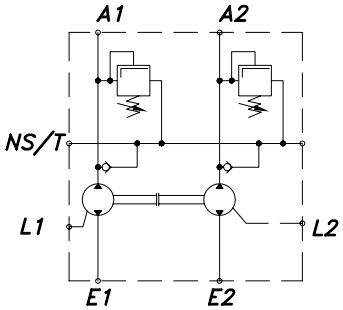
TECHNICAL DATA

FD 3 400-450-500 D47 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	
FD 3 400	170	190	397	250	280	350	60
FD 3 450	190	215	452	250	280	350	67
FD 3 500	210	230	491	250	280	350	74
FD 3 600	230	260	594	250	280	350	80

Flow Divider Symbol (with 2 sections)





RELIEF VALVE DATA	
Rated flow	40 l/min
Adjustable pressure range	5–50 bar
	30–100 bar
	50–220 bar
	80–350 bar

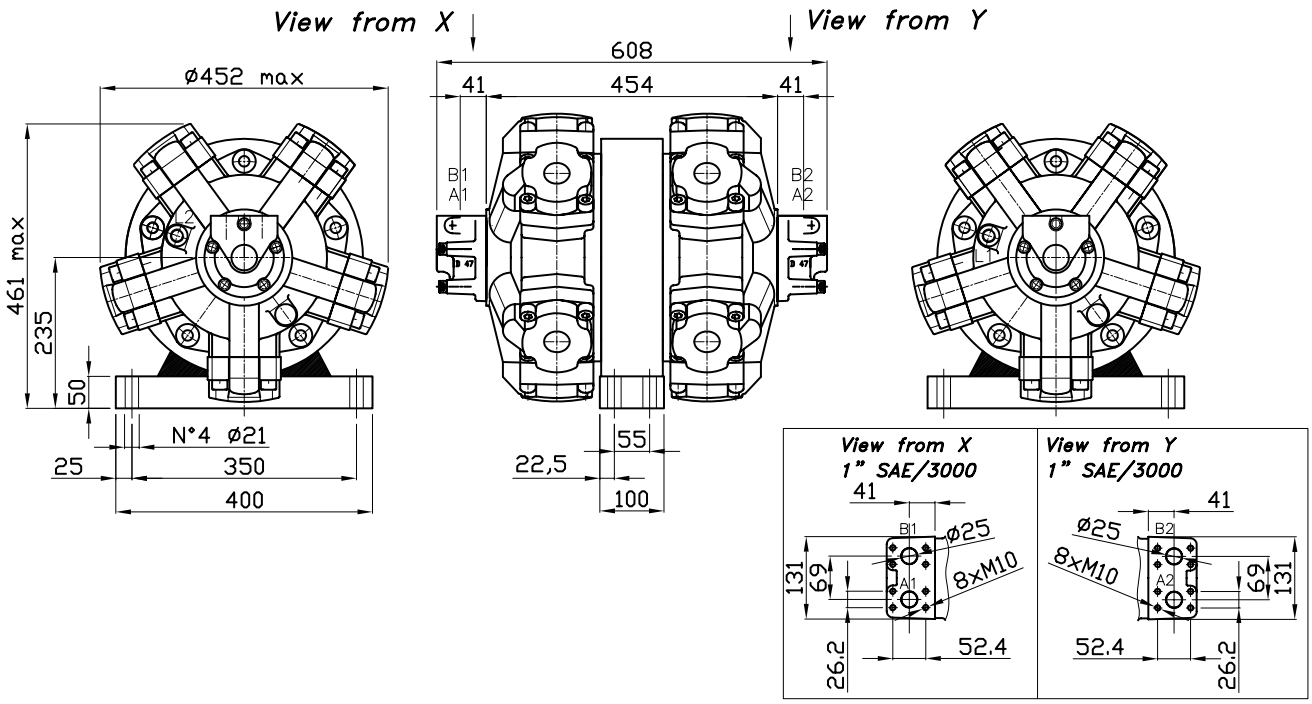
Dry weight	180 kg

Max case pressure	20 bar

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SIZE

FD 4 800-900 D47

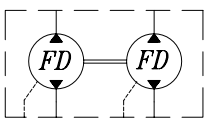


TECHNICAL DATA

FD 4 800-900 D47

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	
FD 4 800	250	295	792	250	280	350	88
FD 4 900	285	335	904	250	280	350	100

Flow Divider Symbol (with 2 sections)



PORTS DIMENSION	
L1/L2	1/2" BSP

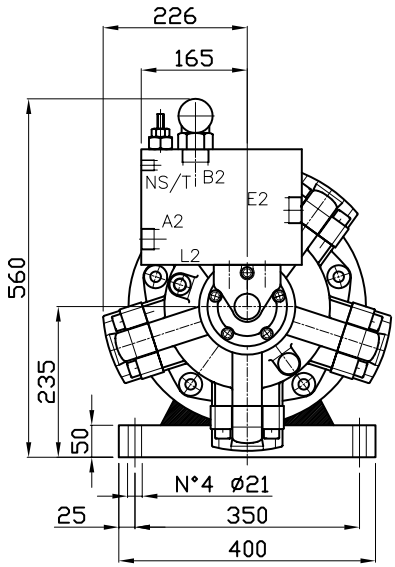
Dry weight	230 kg

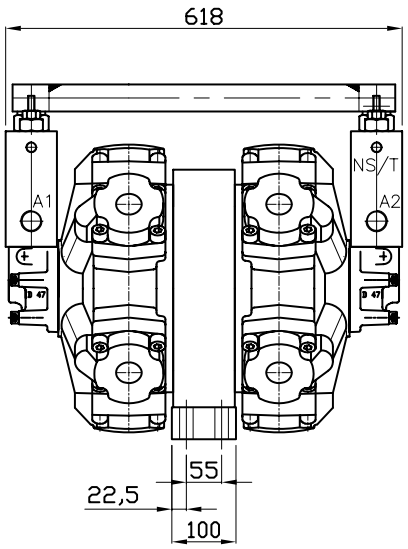
Max case pressure	20 bar

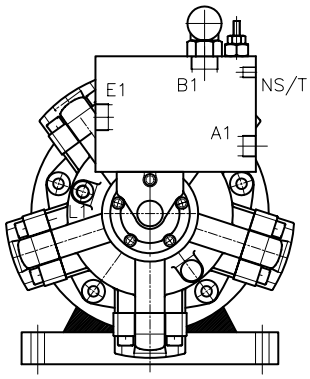
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SIZE

FD 4 800-900 D47 VB







PORTS DIMENSION	
E1/E2	1"1/4 BSP
A1/A2	1"BSP
NS/T	3/8"BSP
L1/L2	1/2"BSP

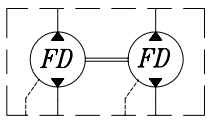
Max case pressure	6 bar

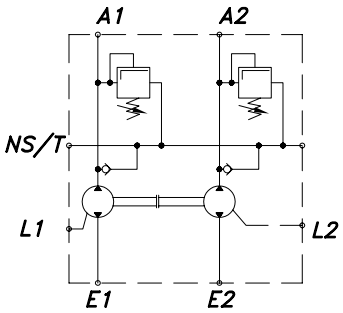
TECHNICAL DATA

FD 4 800-900 D47 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	
FD 4 800	250	295	792	250	280	350	88
FD 4 900	285	335	904	250	280	350	100

Flow Divider Symbol (with 2 sections)





RELIEF VALVE DATA	
Rated flow	40 l/min
Adjustable pressure range	5–50 bar
	30–100 bar
	50–220 bar
	80–350 bar

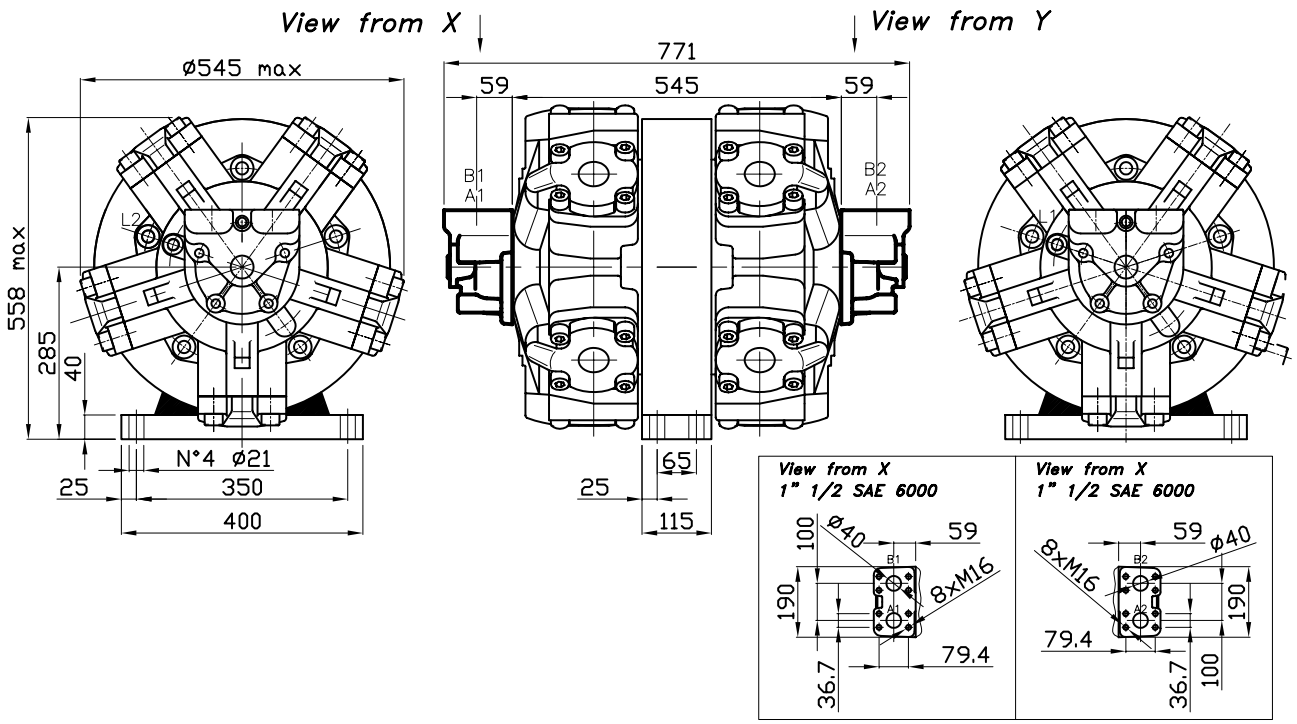
Dry weight	230 kg

Max case pressure	20 bar

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SIZE

FD 5 1400-1500-1600 D90

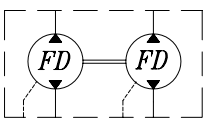


TECHNICAL DATA

FD 5 1400-1500-1600 D90

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	
FD 5 1400	290	340	1376	250	280	300	87
FD 5 1500	320	375	1528	250	280	300	96
FD 5 1600	350	400	1648	250	280	300	105

Flow Divider Symbol (with 2 sections)



PORTS DIMENSION	
L1/L2	1/2" BSP

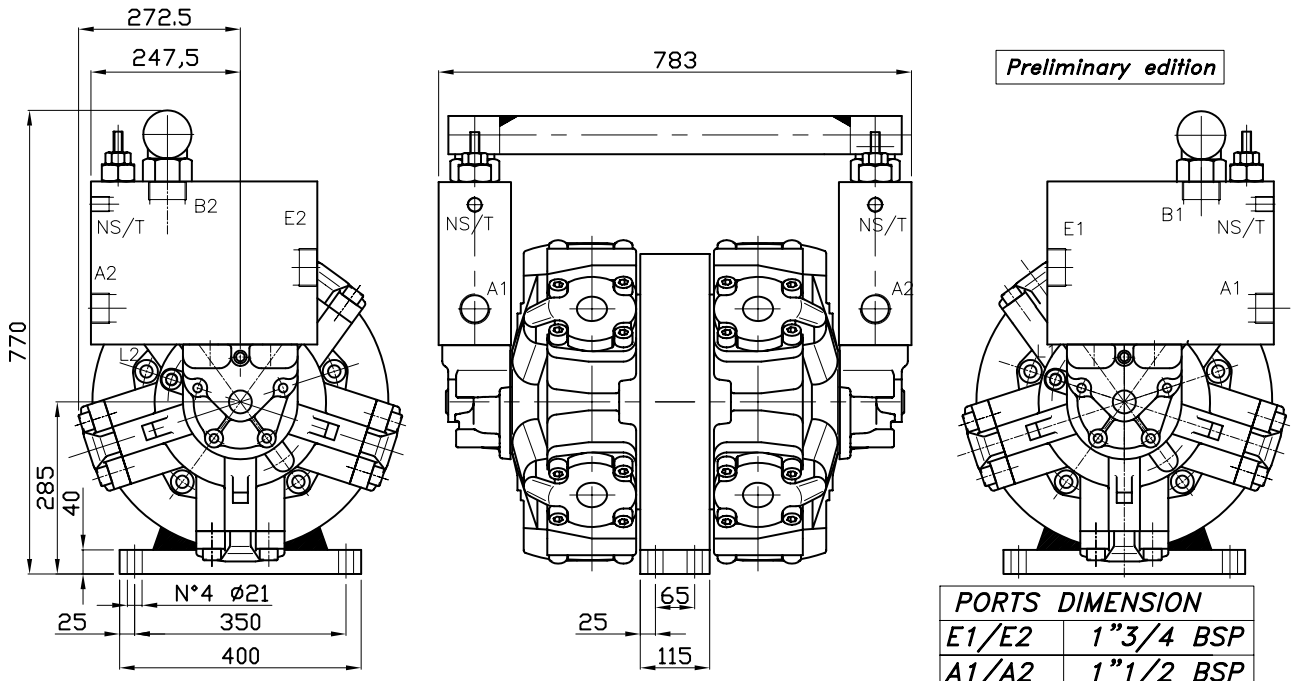
Dry weight	460 kg

Max case pressure	20 bar

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SIZE

FD 5 1400-1500-1600 D90 VB



PORTS DIMENSION	
E1/E2	1"3/4 BSP
A1/A2	1"1/2 BSP
NS/T	3/8"BSP
L1/L2	1/2"BSP

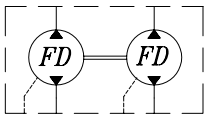
Max case pressure	6 bar

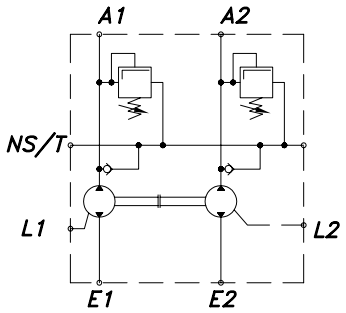
TECHNICAL DATA

FD 5 1400-1500-1600 D90 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	
FD 5 1400	290	340	1376	250	280	300	87
FD 5 1500	320	375	1528	250	280	300	96
FD 5 1600	350	400	1648	250	280	300	105

Flow Divider Symbol (with 2 sections)





RELIEF VALVE DATA	
Rated flow	40 l/min
Adjustable pressure range	5–50 bar
	30–100 bar
	50–220 bar
	80–350 bar

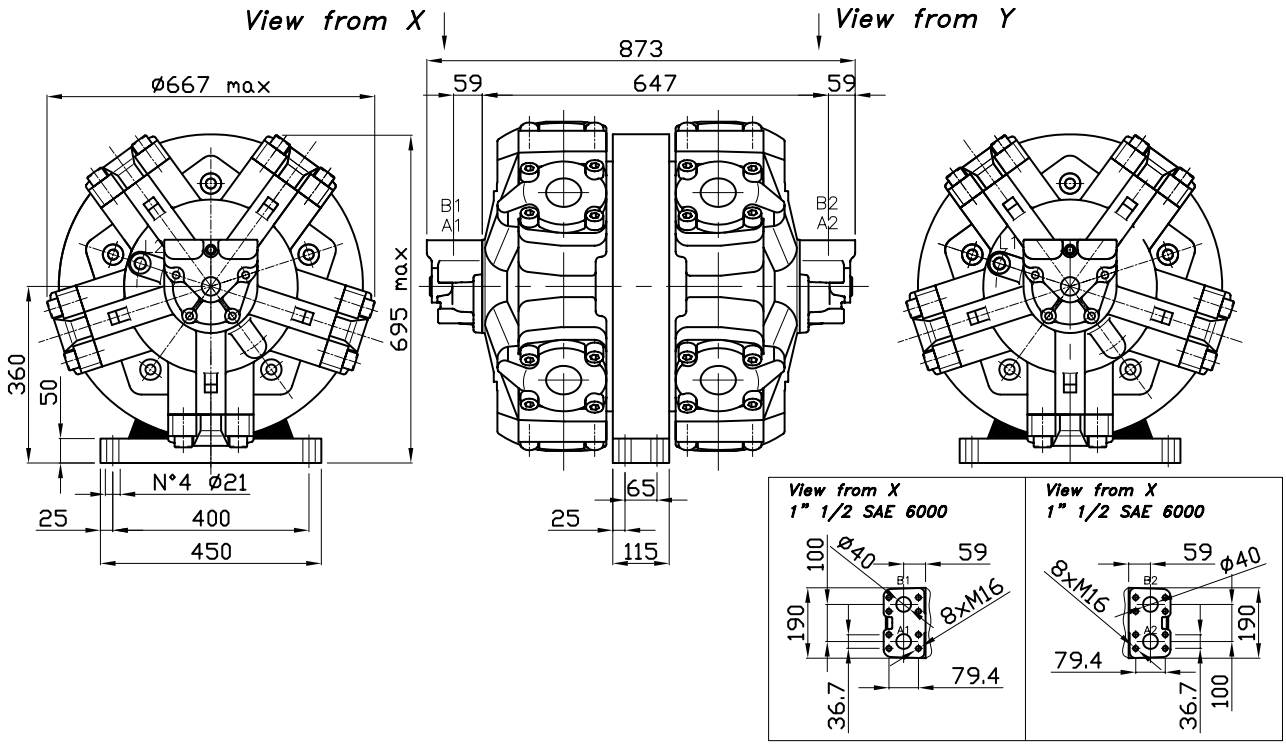
Dry weight	460 kg

Max case pressure	20 bar

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SIZE

FD 6 2500-3000-3200-3500 D90

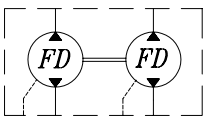


TECHNICAL DATA

FD 6 2500-3000-3200-3500 D90

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	
FD 6 2500	390	460	2525	250	280	300	118
FD 6 3000	440	525	2983	250	280	300	132
FD 6 3200	460	550	3289	250	280	300	138
FD 6 3500	490	590	3479	250	280	300	147

Flow Divider Symbol
(with 2 sections)



PORTS DIMENSION	
L1/L2	3/4" BSP

Dry weight	900 kg

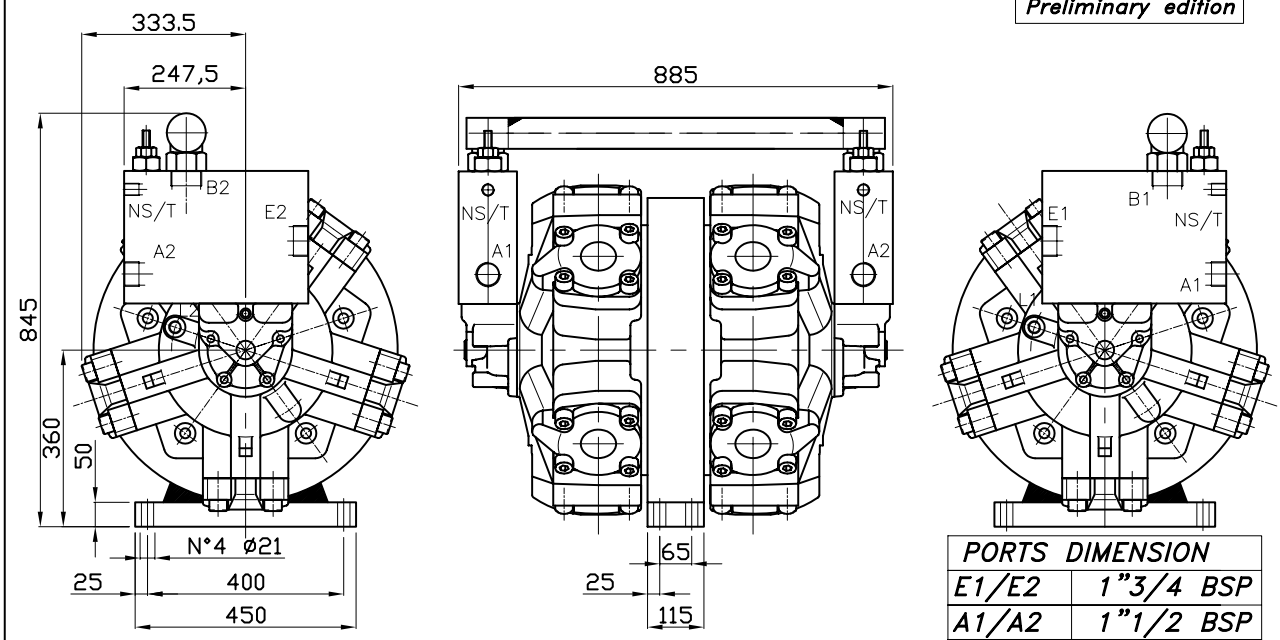
Max case pressure	20 bar

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SIZE

FD 6 2500-3000-3200-3500 D90 VB

Preliminary edition



PORTS	DIMENSION
E1/E2	1"3/4 BSP
A1/A2	1"1/2 BSP
NS/T	3/8"BSP
L1/L2	3/4"BSP

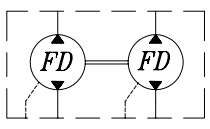
Max case pressure	6 bar

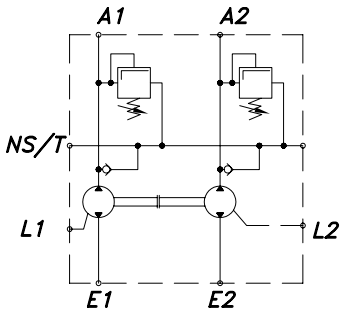
TECHNICAL DATA

FD 6 2500-3000-3200-3500 D90 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	
FD 6 2500	390	460	2525	250	280	300	118
FD 6 3000	440	525	2983	250	280	300	132
FD 6 3200	460	550	3289	250	280	300	138
FD 6 3500	490	590	3479	250	280	300	147

Flow Divider Symbol (with 2 sections)





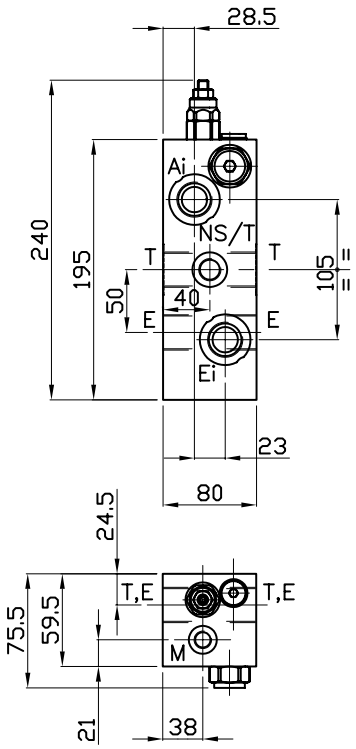
RELIEF VALVE DATA	
Rated flow	40 l/min
Adjustable pressure range	5–50 bar
	30–100 bar
	50–220 bar
	80–350 bar

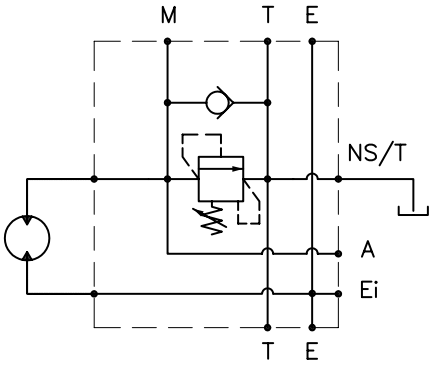
Dry weight	900 kg

Max case pressure	20 bar

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VALVE DIMENSIONS AND TECHNICAL DATA



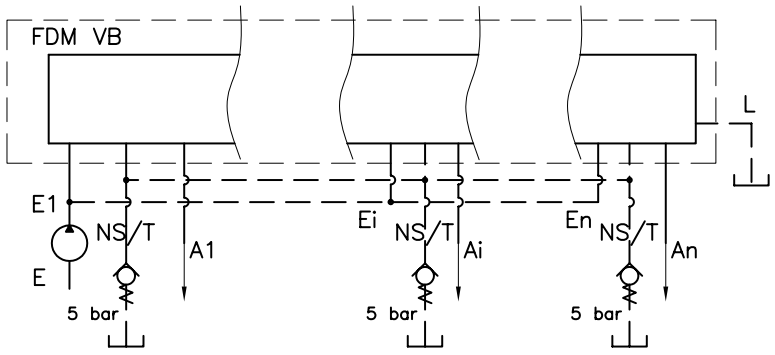


PORTS DIMENSION	
Ai	3/4" BSPP
Ei	1" BSPP
M	1/4" BSPP
NS/T	3/8" BSPP
E	1" BSPP

(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

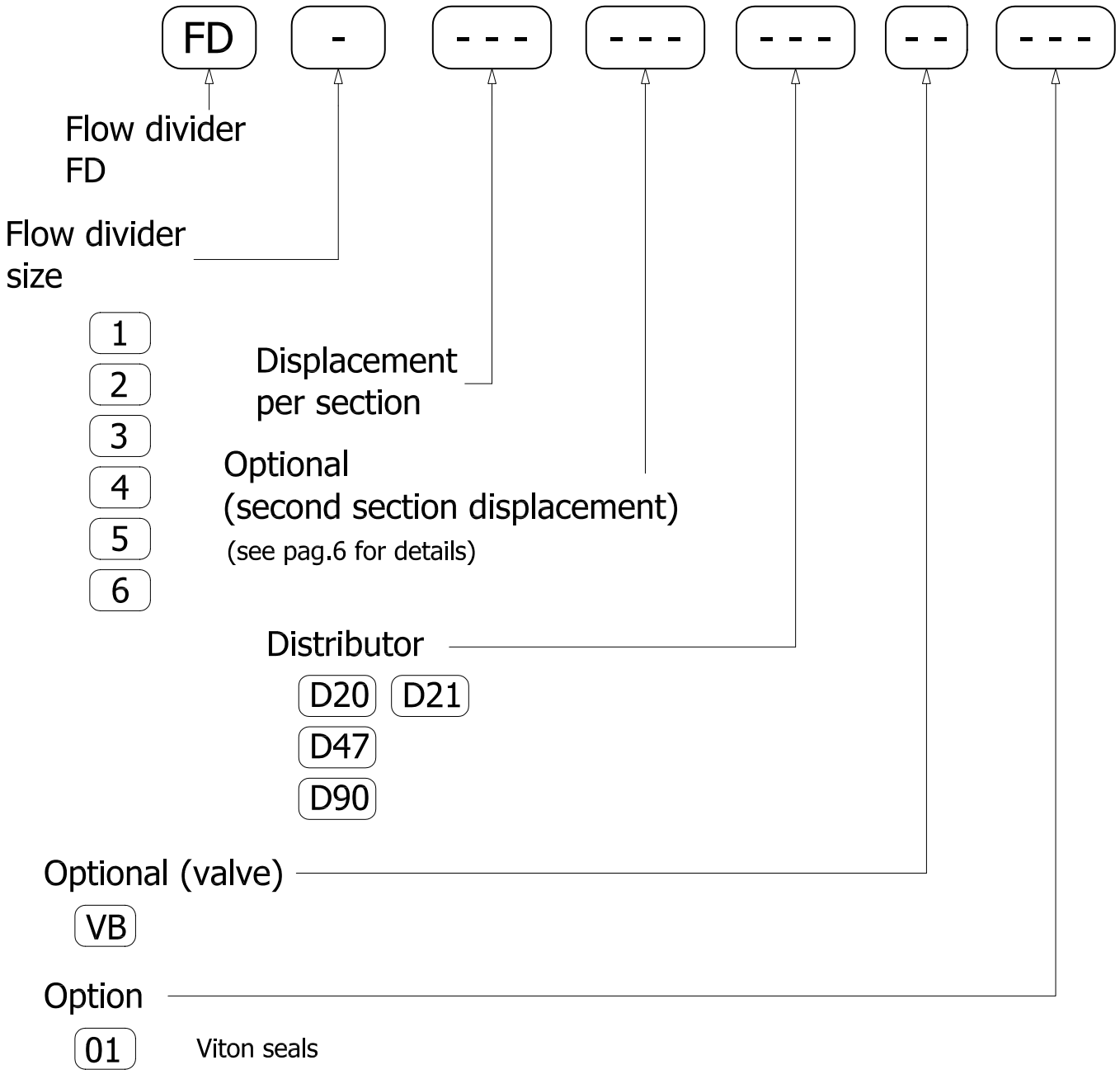


The NS/T port of the valve has to be connected to the tank. If the inlet flow is very high it is necessary to connect more than one inlet port despite all E ports are internally connected together, in order to avoid an excessive pressure drop.

For further information contact Italgroup technical department.

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FD SERIES - ORDERING INSTRUCTIONS

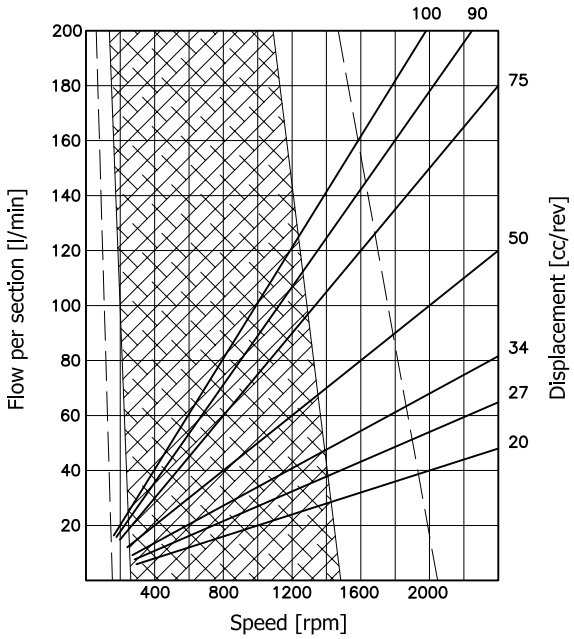


EXAMPLE:
FD.27.D20
FD.1.150.D47.VB
FD.5.1500.D90
FD.20.34.D21.VB.01

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Flow dividers selection chart

FD

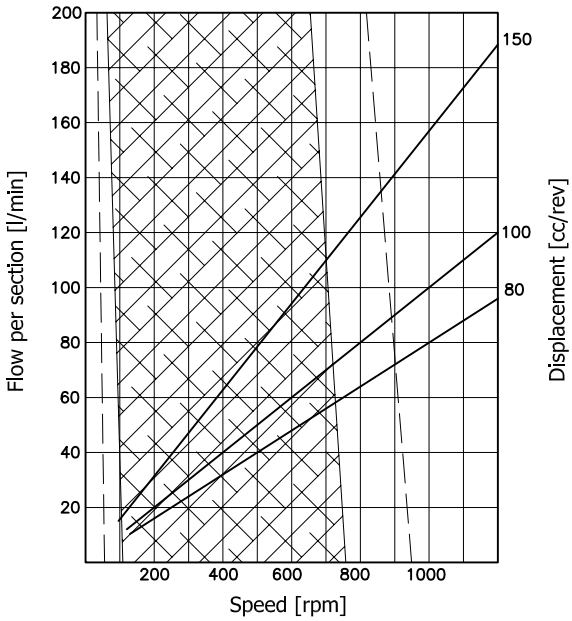


Working area

High efficiency area

Flow dividers selection chart

FD 1

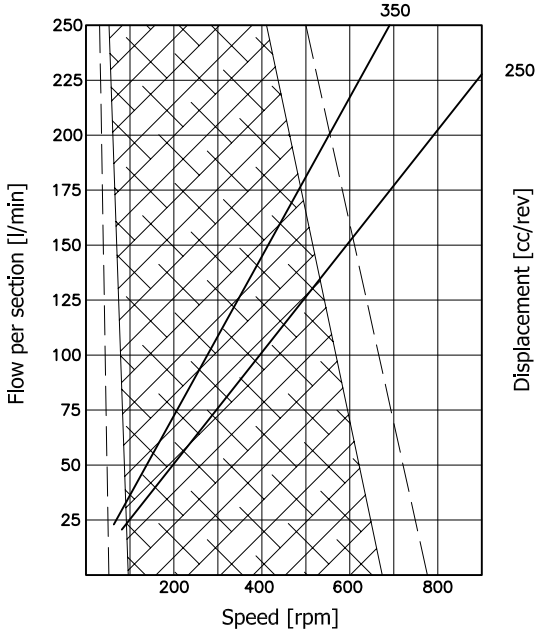


Working area

High efficiency area

Flow dividers selection chart

FD 2

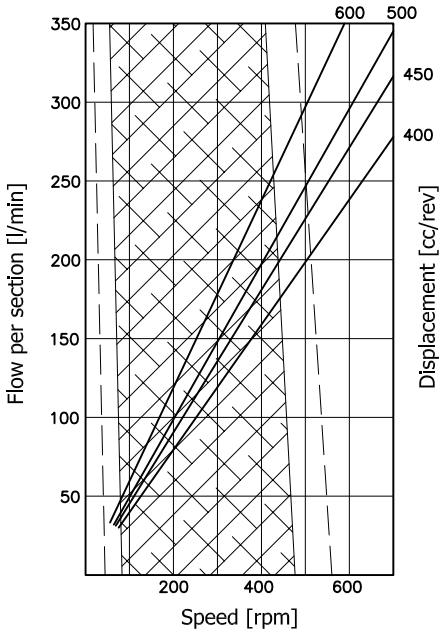


Working area

High efficiency area

Flow dividers selection chart

FD 3



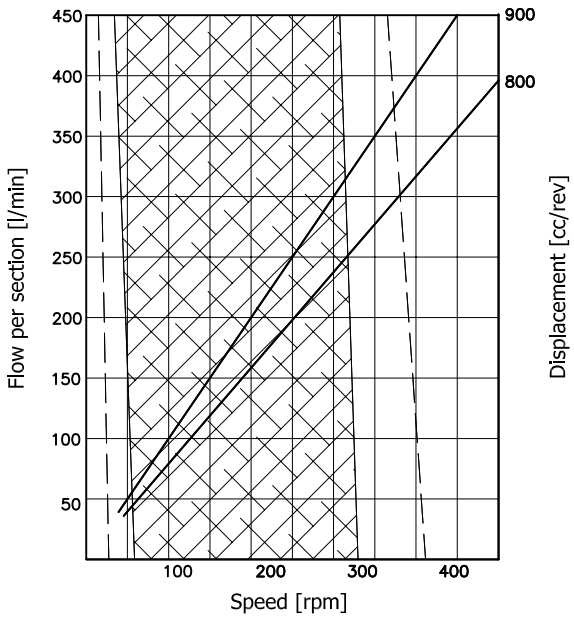
Working area

High efficiency area

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Flow dividers selection chart

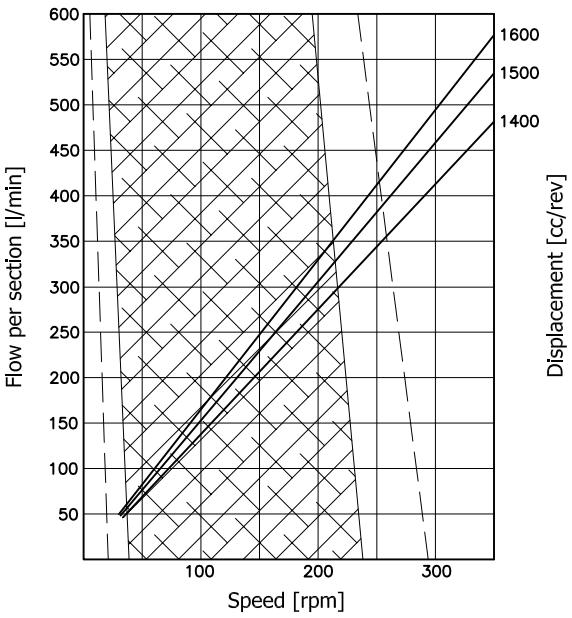
FD 4



Working area High efficiency area

Flow dividers selection chart

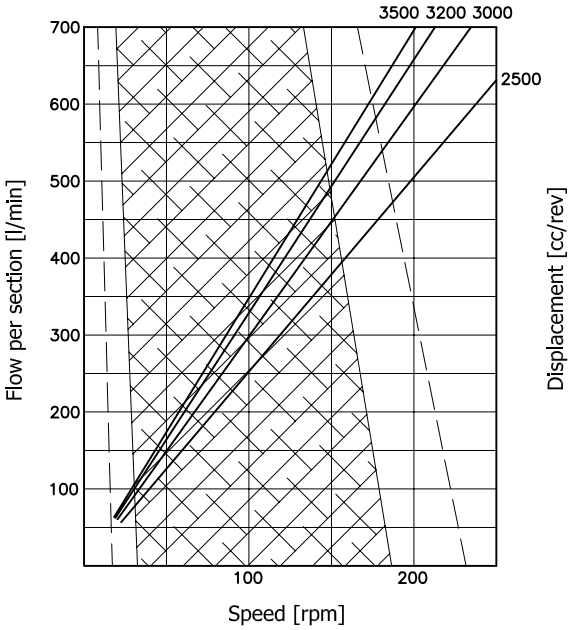
FD 5



Working area High efficiency area

Flow dividers selection chart

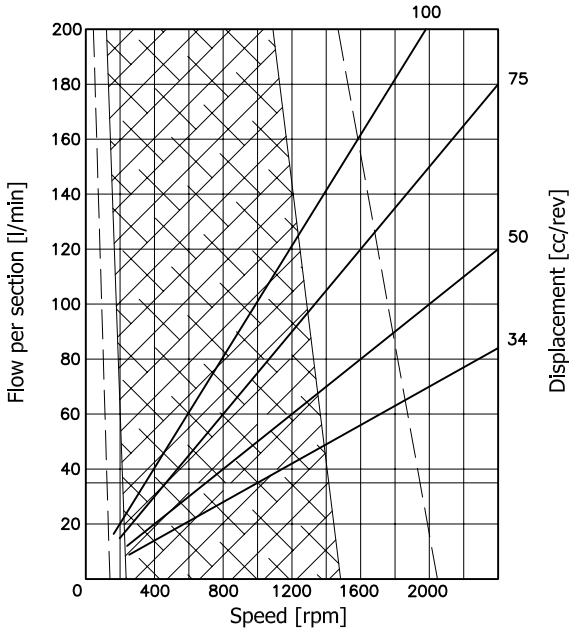
FD 6



Working area High efficiency area

Flow dividers selection chart

FDM



Working area High efficiency area

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