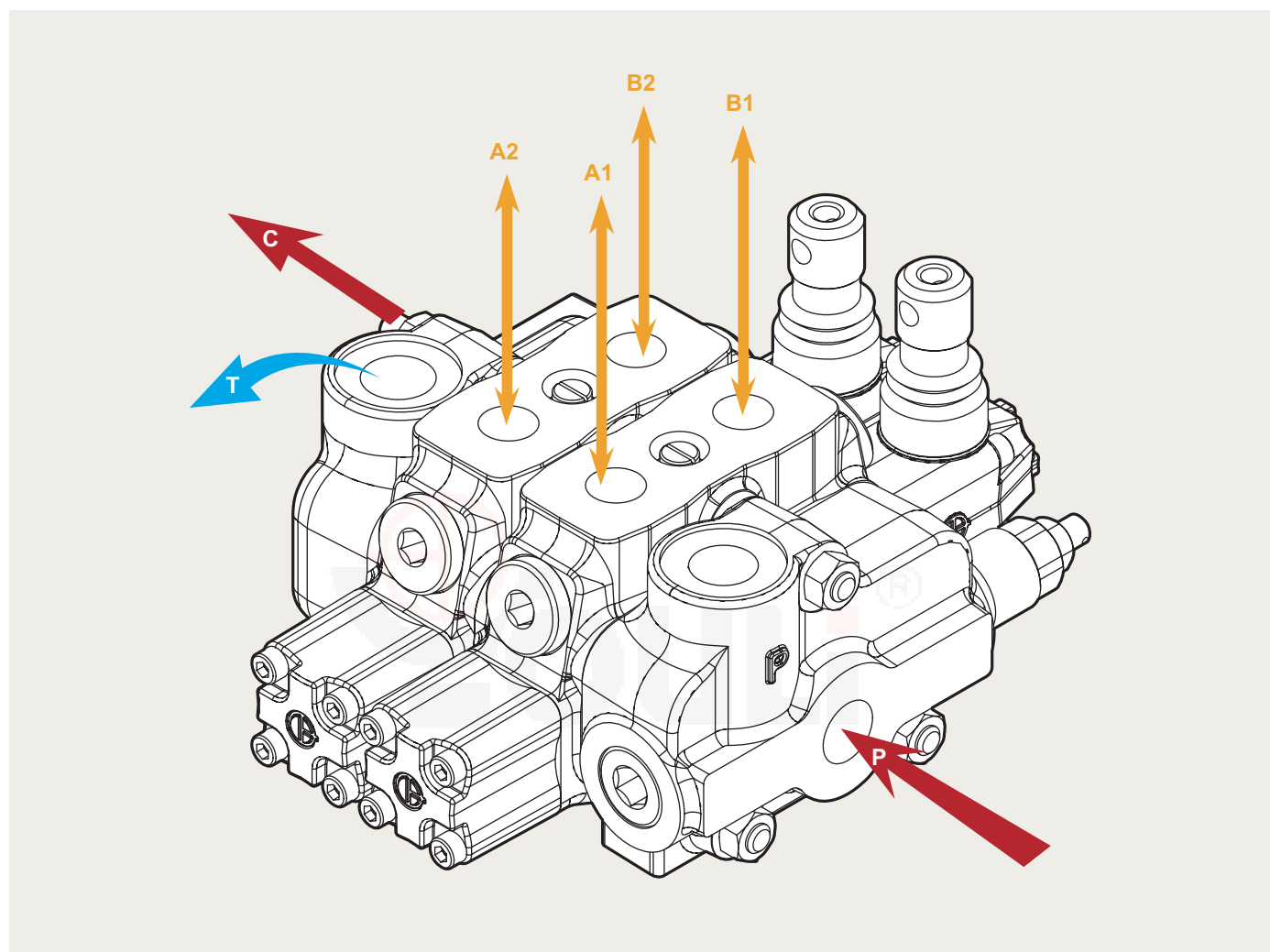


SN-3

Sectional Directional Control Valves



SN-3 Specifications

Nominal flow rate		50 l/min	13 US gpm
Operating pressure (maximum)		315 bar	4600 psi
Back pressure (maximum)	on outlet port T	25 bar	360 psi
Fluid temperature range	with NBR(BUNA-N) seals	from - 20° to 80°C	from - 4° to 176° F
	with FPM(VITON) seal	from - 20° to 100°C	from - 4° to 212° F
Viscosity	operating range	from 15 to 75 mm²/s	from 15 to 75 cst
	min	12 mm²/s	12 cst
	max.	400 mm²/s	400 cst
Ambient temperature range		from - 40° to 60°C	from - 40° to 140° F

• All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.

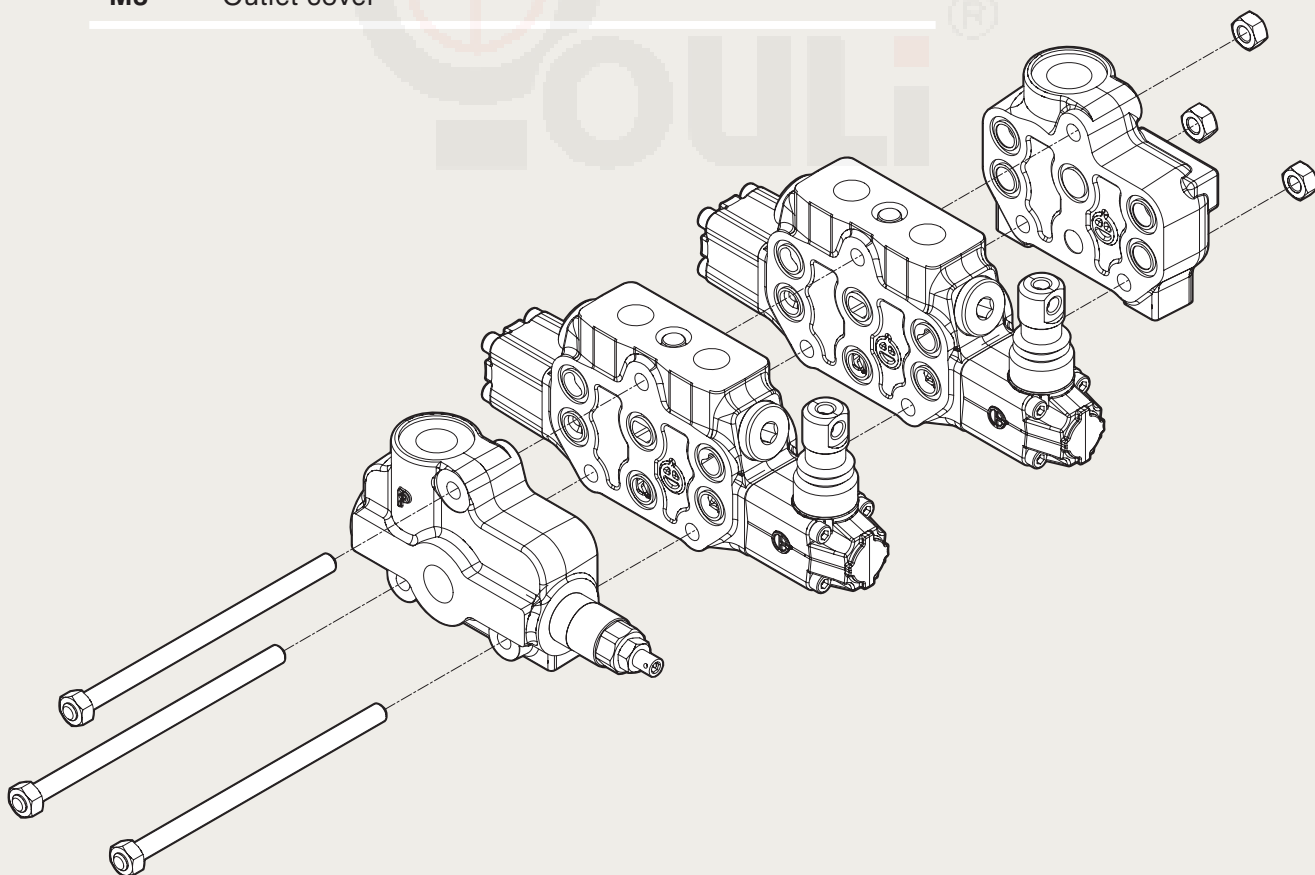
SN-3 Complete

Sectional Directional Control Valves

HOW TO ORDER FOR A COMPLETE ASSEMBLED VALVE

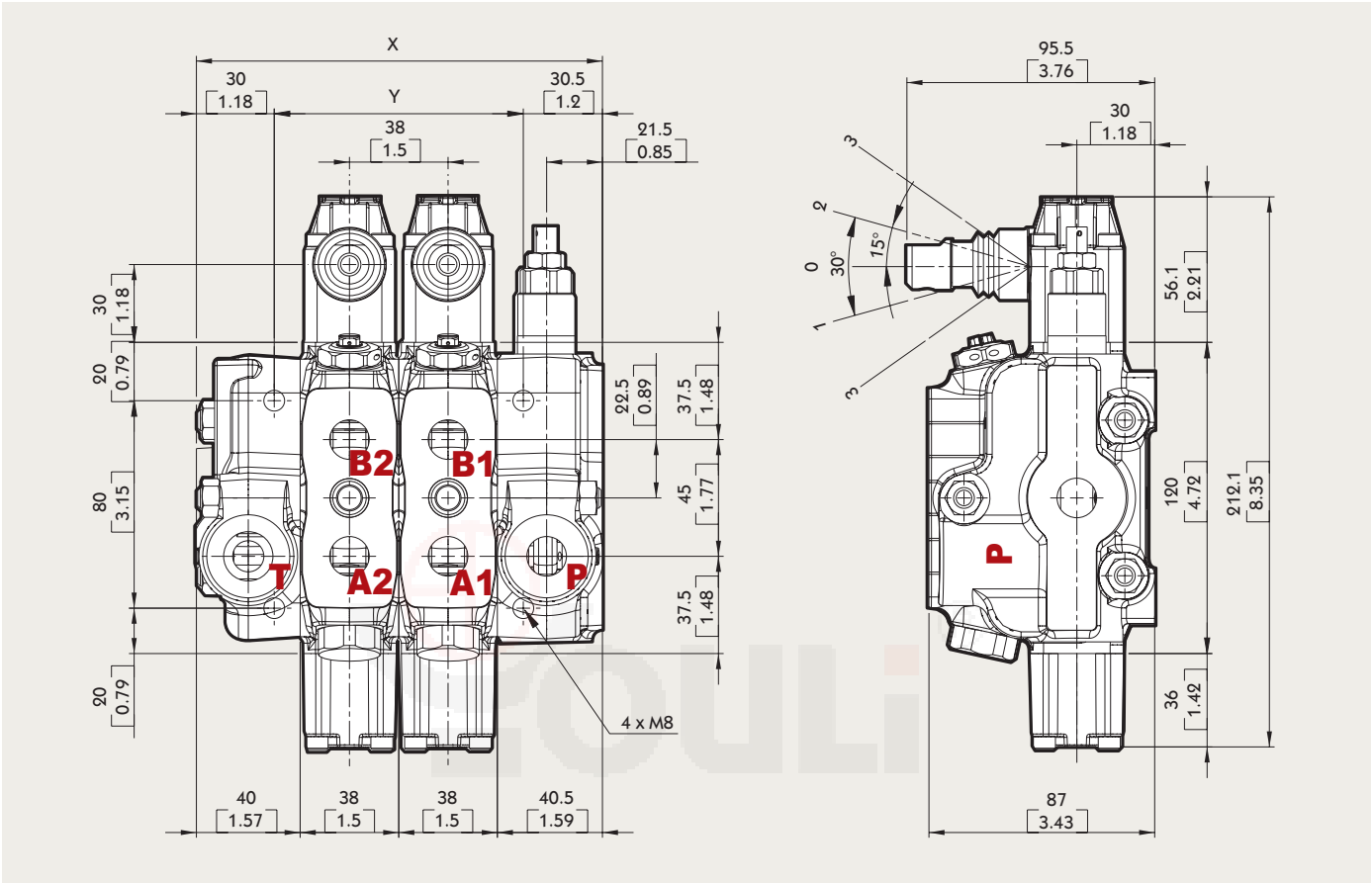
SN-3 / 2S - 3 / 18L / 28L / G-3-4 / M3

2S	No. of working section
3	Inlet cover with a main pressure relief valve
18L	1st section (complete working section)
28L	Following section (complete working section)
G-3-4	BSP ports
M3	Outlet cover



SN-3 Dimensions

Sectional Directional Control Valves



Standard threads

Ports	BSP	UN-UNF	METRIC
P	G 3/8	7/8-14 (SAE 10)	M18 x 1.5
A and B	G 3/8	3/4-16 (SAE 8)	M18 x 1.5
T and C	G 1/2	7/8-14 (SAE 10)	M22 x 1.5

• G-3/8 : G3 G-1/2 : G4 G-3/4 : G6 G-1 : G8 G-1 1/4 : G10
• SAE 8: E8 SAE 10: E10 SAE 12: E12 SAE 16: E16 SAE 20: E20

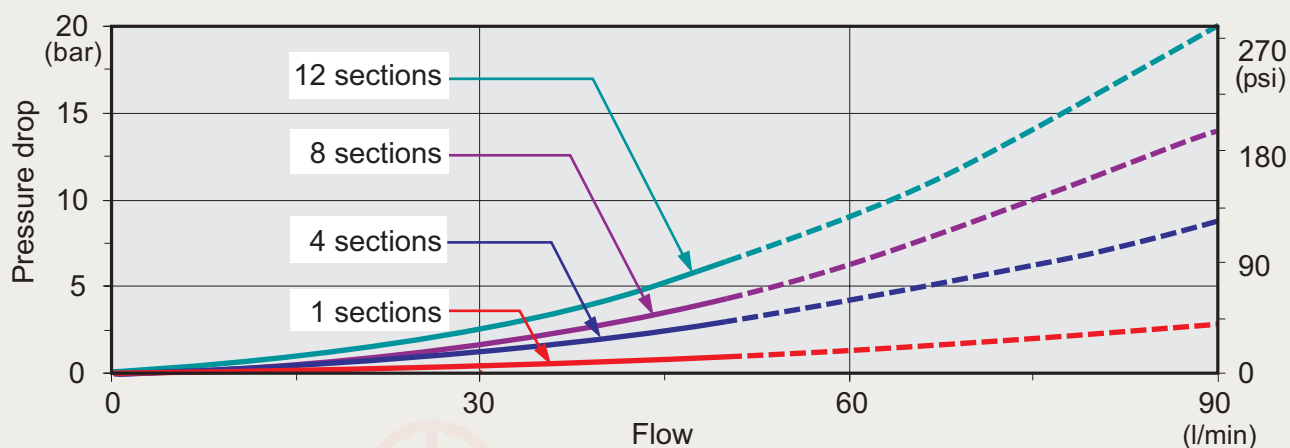
Standard dimensions

TYPE	X		Y		TYPE	X		Y	
	mm	in	mm	in		mm	in	mm	in
SN3 /1S	118.5	4.66	58	2.28	SN3 /7S	346.5	13.65	286	11.26
SN3 /2S	156.5	6.16	96	3.78	SN3 /8S	384.5	15.15	324	12.76
SN3 /3S	194.5	7.66	134	5.28	SN3 /9S	422.5	16.65	362	14.26
SN3 /4S	232.5	9.15	172	6.77	SN3 /10S	460.5	18.15	400	15.76
SN3 /5S	270.5	10.65	210	8.27	SN3 /11S	498.5	19.65	438	17.26
SN3 /6S	308.5	12.15	248	9.76	SN3 /12S	536.5	21.15	476	18.76

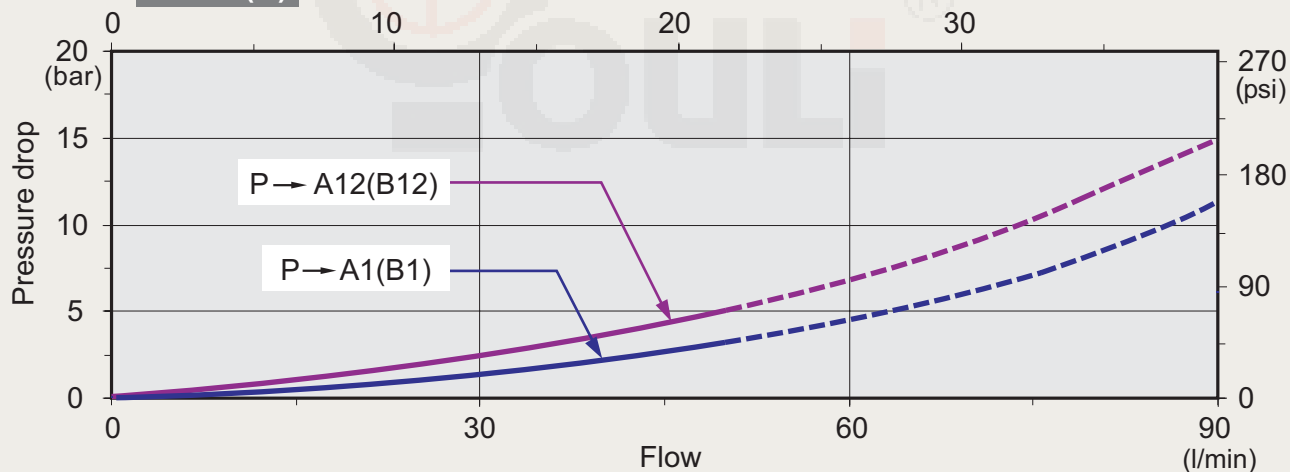
SN-3 Performance Curve Chart

Sectional Directional Control Valves

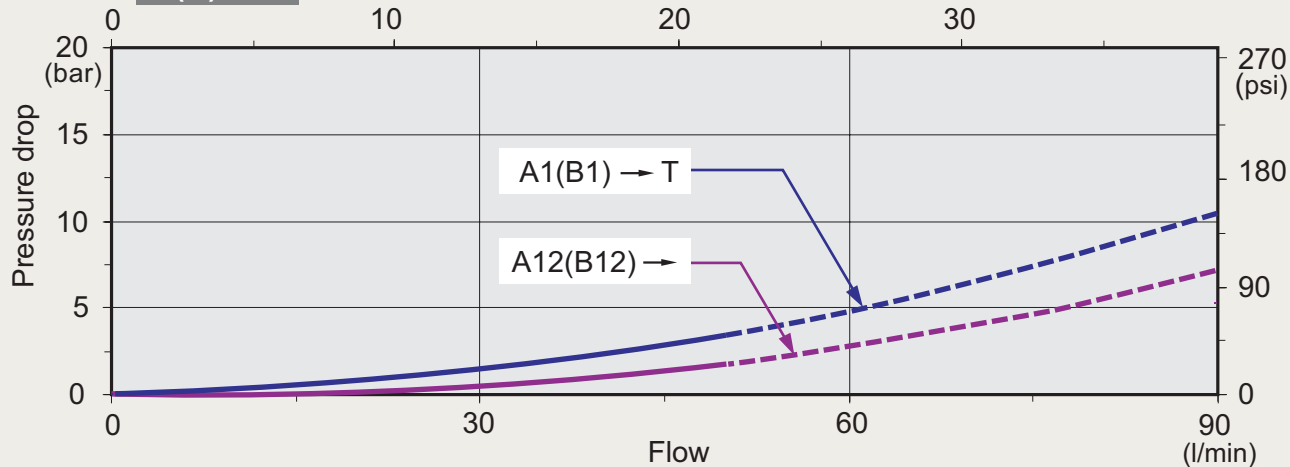
P to T



P to A(B)



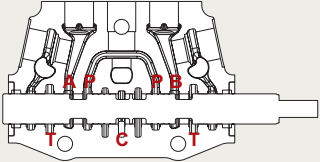
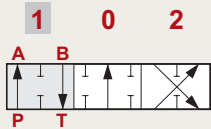
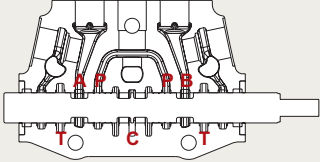
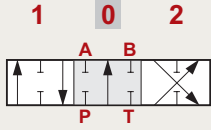
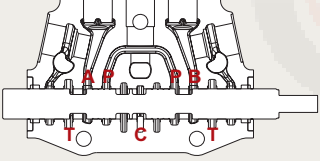
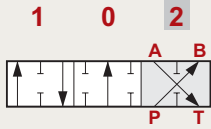
A(B) to T



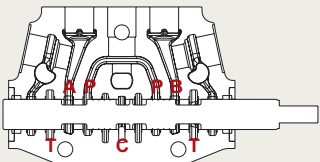
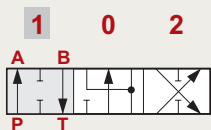
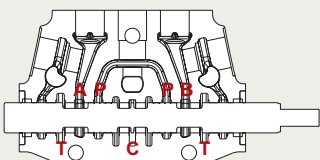
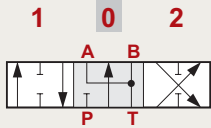
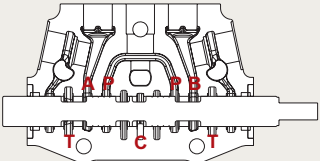
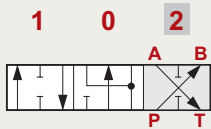
SN-3 spool Options

Sectional Directional Control Valves

TYPE 1

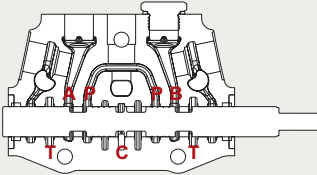
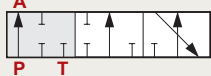
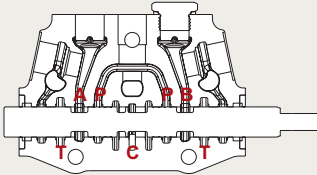
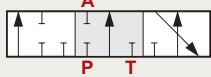
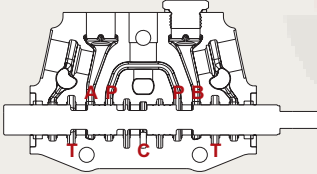
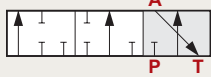
	P → A B → T C closed	
	P & T & A & B closed C open	
	P → B A → T C closed	

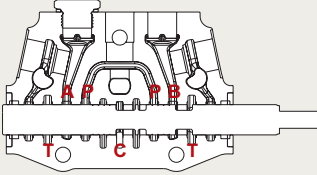
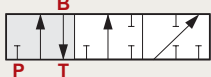
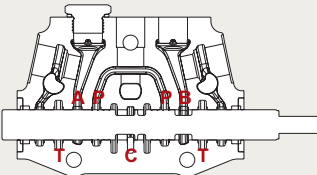
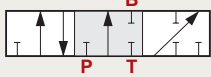
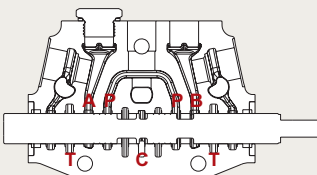
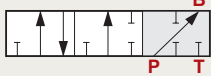
TYPE 2

	P → A B → T C closed	
	A & B → T P closed C open	
	P → B A → T C closed	

SN-3 spool Options

Sectional Directional Control Valves

TYPE 3		
	P → A C closed	102  "B" port plugged
	P & T & A closed C open	102  "B" port plugged
	A → T C open	102  "B" port plugged

TYPE 4		
	B → T P closed C open	102  "A" port plugged
	P & T & B closed C open	102  "A" port plugged
	P → B C & T closed	102  "A" port plugged