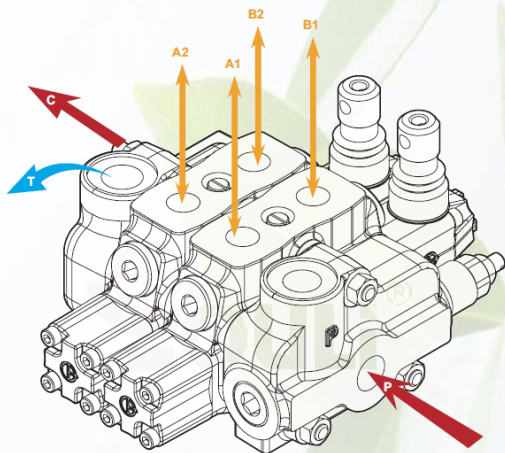


SN-3 SERIES

Sectional Directional Control Valves



- Compact construction. Low pressure drop
- Long service life. High efficiency
- Choice of various operation methods, such as manual, pneumatic, hydraulic, and electro-hydraulic
- Choice of various ports and circuit valves
- Spring return
- High accuracy spool is hardened for long term accuracy
- Sub-plate mounting
- Handle shift operation
- Available sections from 1 to 12

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°	From -4° to 176° F
	With FPM(VITON) seal	From -20° to 100°	From -4° to 212° F
Viscosity	Operating range	From 15 to 75mm ² /s	From 15 to 75 cst
	Min.	12mm ² /s	12cst
	Max.	400mm ² /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.



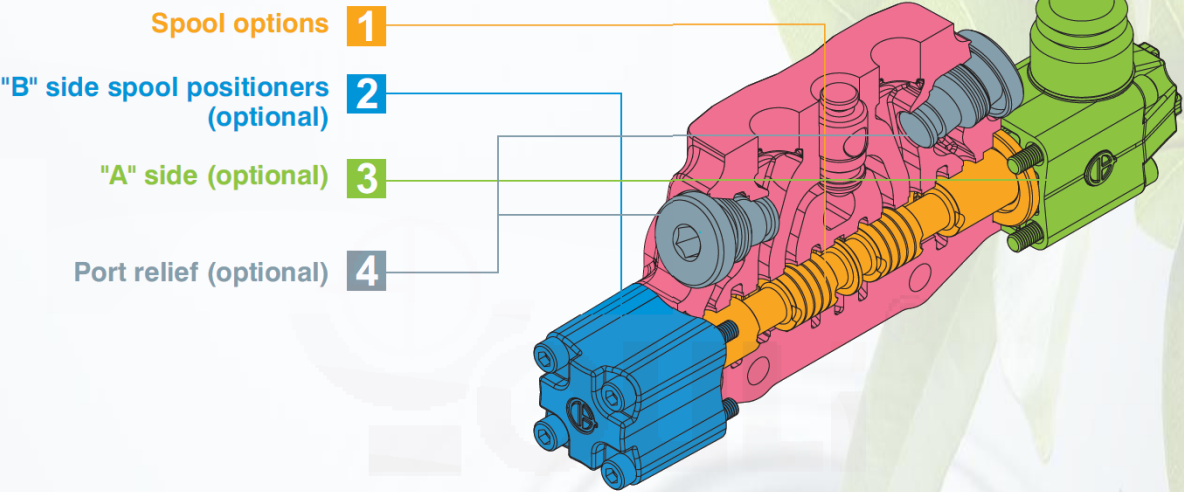
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SN-3 SERIES – Sectional Directional Control Valves

Ordering Details

EW SN-3 / 1S / **1** **8** **L** / **P1(G3-100)** / **G-3**

1 **2** **3** **4**



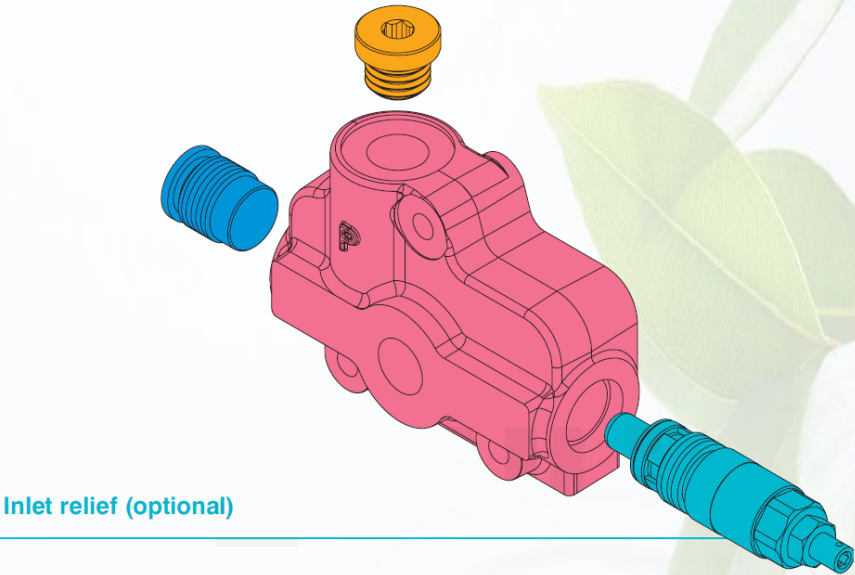
SN-3	2S-3	18L	28L	G-3-4	M3
------	------	-----	-----	-------	----

2S	No. of working sections
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 SERIES – Sectional Directional Control Valves

Inlet Relief

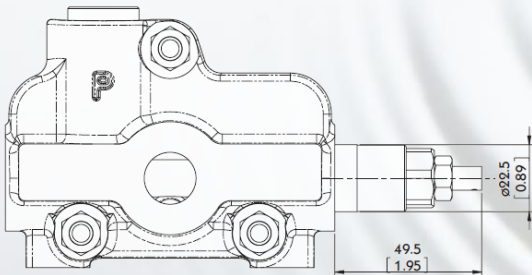
FP SN-3 / YG-3 / G3



Inlet Relief (Optional)		
TYPE	CODE	DESCRIPTION
YG-4	YLPSN33004	Range 160 to 315 bar / 2900 to 4600 psi , standard setting 220 bar / 3200 psi
		Standard setting is referred to 10 l/min - 2.6 US gpm flow.

INLET RELIEF DRAWING

Type YG



Direct pressure relief valve:



SN-3 SERIES – Sectional Directional Control Valves

Spool Options

EW SN-3 / 1S / 1 8 L / P1(G3-100) / G-3

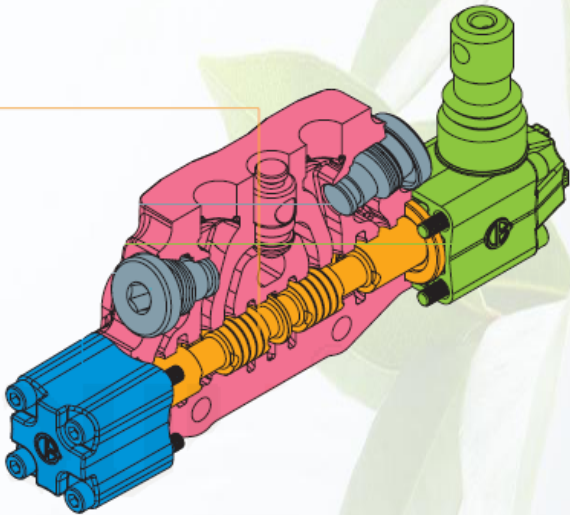
1
1

2
2

3
3

4
4

Spool options 1

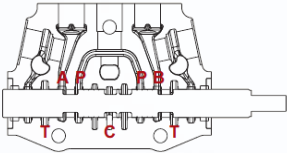
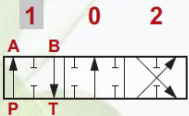
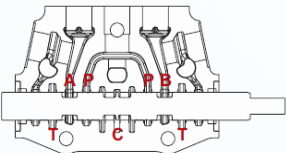
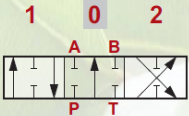
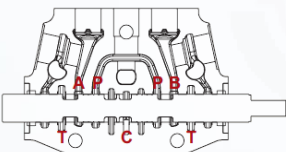
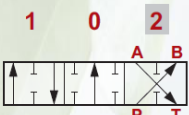


1:	SPOOL OPTIONS	
TYPE	CODE	DESCRIPTION
1	YLWSN32001	Double acting,3 positions,with A and B closed in neutral position
2	YLWSN32002	Double acting,3 positions, with A and B open to tank in neutral position
3	YLWSN32003	Single acting on A closed in neutral position, 3 positions, B plugged
5PY	YLWSN33051	Double acting, 4 positions, floating circuit in 4th position with A, B open to Tank by pushing the lever

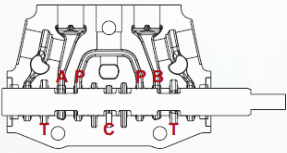
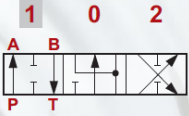
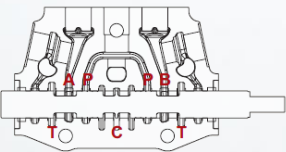
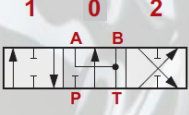
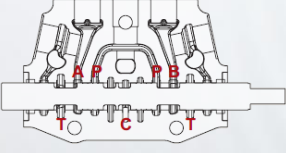
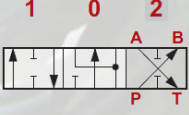
SN-3 SERIES – Sectional Directional Control Valves

1: SPOOL OPTIONS DRAWING

TYPE 1 STANDARD DOUBLE ACTION

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

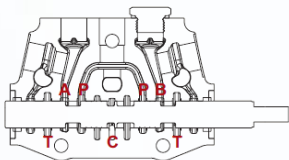
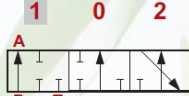
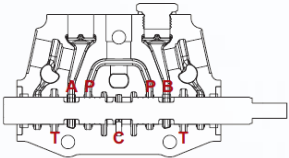
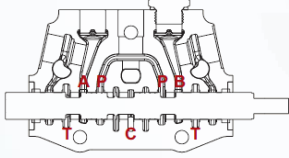
TYPE 2 MOTOR SPOOL

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

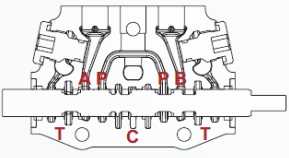
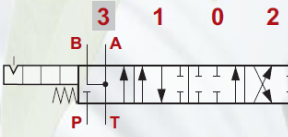
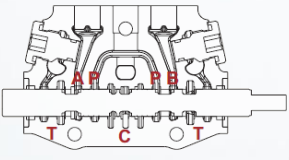
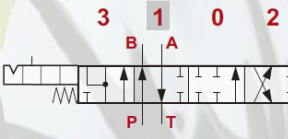
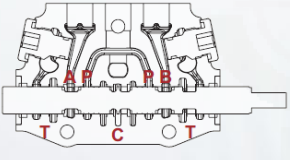
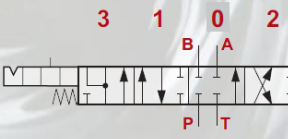
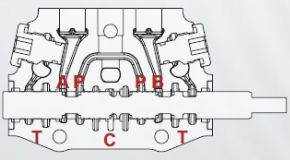
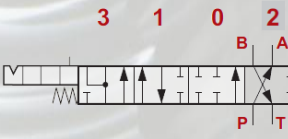
SN-3 SERIES – Sectional Directional Control Valves

1: SPOOL OPTIONS DRAWING

TYPE 3 SINGLE ACTION

	P → A C closed	1 0 2  "B" port plugged
	P & T & A closed C open	1 0 2  "B" port plugged
	A → T C open	1 0 2  "B" port plugged

TYPE 5PY FLOATING POSITION

	A & B → T P closed C open	3 1 0 2 
	P → A B → T C closed	3 1 0 2 
	P & A & B & T closed C open	3 1 0 2 
	P → B A → T C closed	3 1 0 2 

SN-3 SERIES – Sectional Directional Control Valves

B Side Spool Positioners – Lock or Spring

EW SN-3 / 1S / 1 8 L / P1(G3-100) / G-3

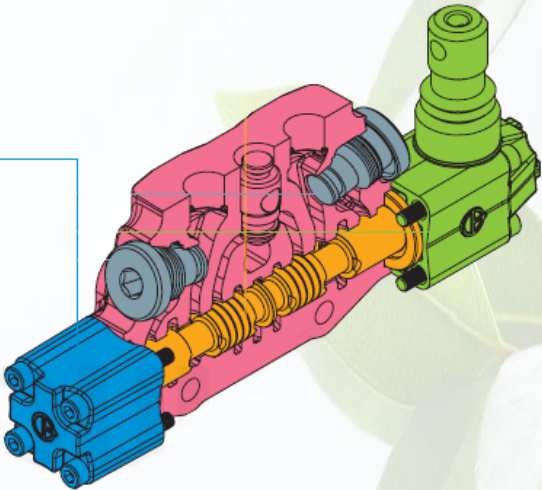
1

2

3

4

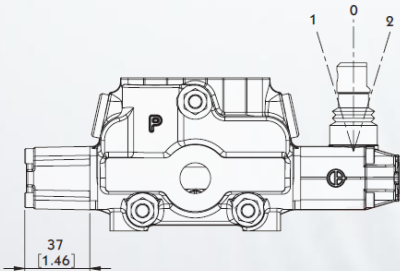
"B" side spool positioners 2 (optional)



2: B Side Spool Positioners		
TYPE	CODE	DESCRIPTION
8	YLWSN33008	Double acting,3 positions,with A and B closed in neutral position

TYPE 8 SPOOL POSITIONERS DRAWING

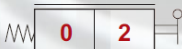
Type 8



8 Kit:
SPRING RETURN TO NEUTRAL
POSITION



8-1 Kit:
SPRING RETURN TO NEUTRAL
POSITION.
(2 POSITIONS)



8-2 Kit:
SPRING RETURN TO NEUTRAL
POSITION.
(2 POSITIONS)

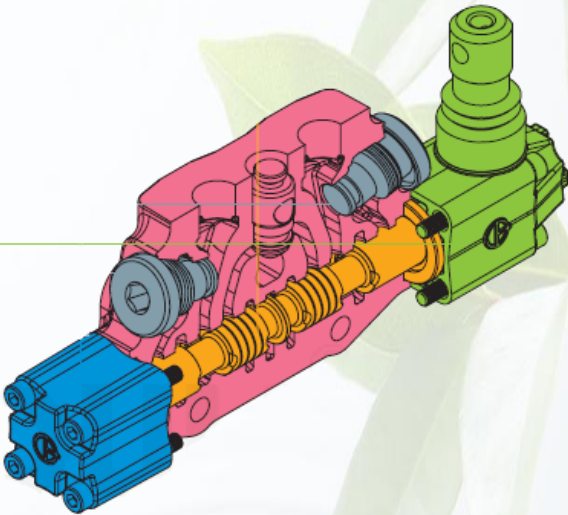
SN-3 SERIES – Sectional Directional Control Valves

A Side Options

EW SN-3 / 1S / 1 8 L / P1(G3-100) / G-3

1 2 3 4

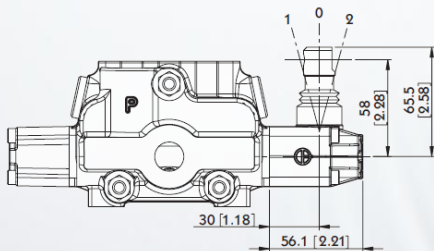
"A" side (optional) 3



3:	A Side (Optional)	
TYPE	CODE	DESCRIPTION
L	YLWSN33008	Standard lever

TYPE L DRAWING

Type L



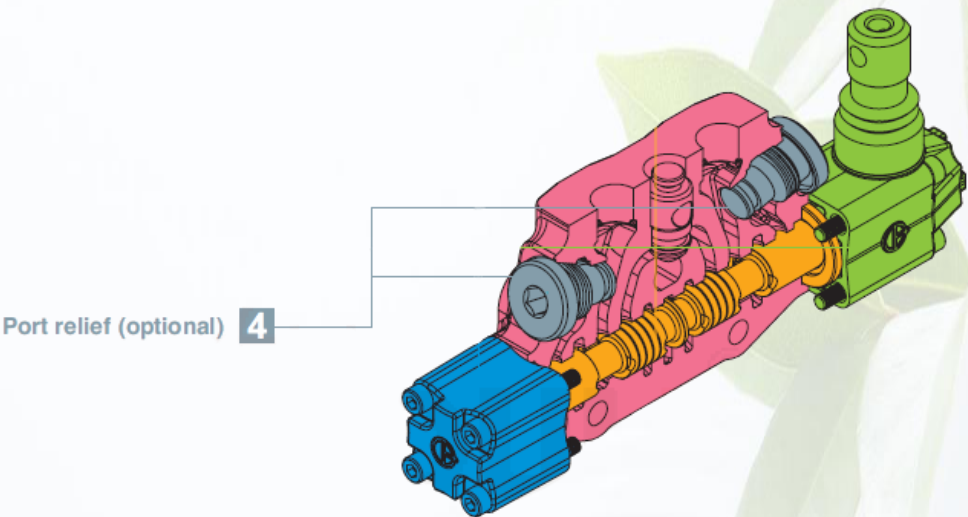
Type L:
STANDART LEVER KIT

SN-3 SERIES – Sectional Directional Control Valves

Port Options

EW SN-3 / 1S / 1 8 L / P1(G3-100) / G-3

1 2 3 4



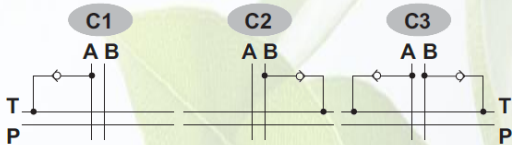
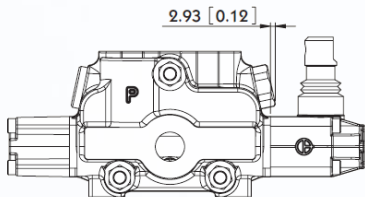
4:	Port Relief (Optional)	
TYPE	CODE	DESCRIPTION
P (G2-63)	WSN33008	Anti-shock valve, range 63 to 125 bar / form 900 to 1800 psi standard setting 63 bar / 900 psi
P (G3-100)	YLWSN35003	Anti-shock valve, range 100 to 250 bar / form 1450 to 3600 psi standard setting 100bar / 1450 psi
P (G4-200)	YLWSN35004	Anti-shock valve, range 200 to 315 bar / form 2900 to 4600 psi standard setting 200 bar / 2900 psi
U (G2-63)	YLWSN35012	Anti-shock valve and Anti-cavitation valve, range 63 to 125 bar / form 900 to 1800 psi standard setting 63 bar / 900 psi
U (G3-100)	YLWSN35013	Anti-shock valve and Anti-cavitation valve, range 100 to 250 bar / form 1450 to 3600 psi standard setting 100 bar / 1450 psi
U (G4-200)	YLWSN35014	Anti-shock valve and Anti-cavitation valve, range 200 to 315 bar / form 2900 to 4600 psi standard setting 200 bar / 2900 psi
C	YLWSN35100	Anti - cavitation

SN-3 SERIES – Sectional Directional Control Valves

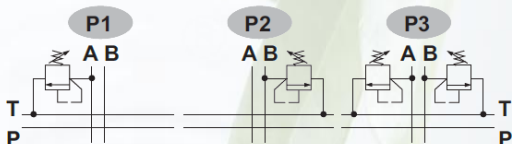
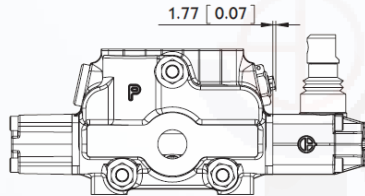
Port Options

PORT RELIEF DRAWING

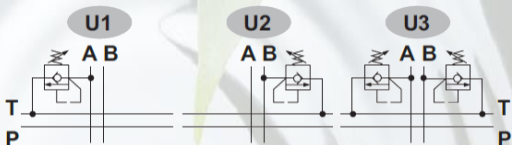
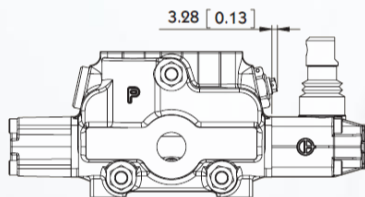
TYPE C



TYPE P

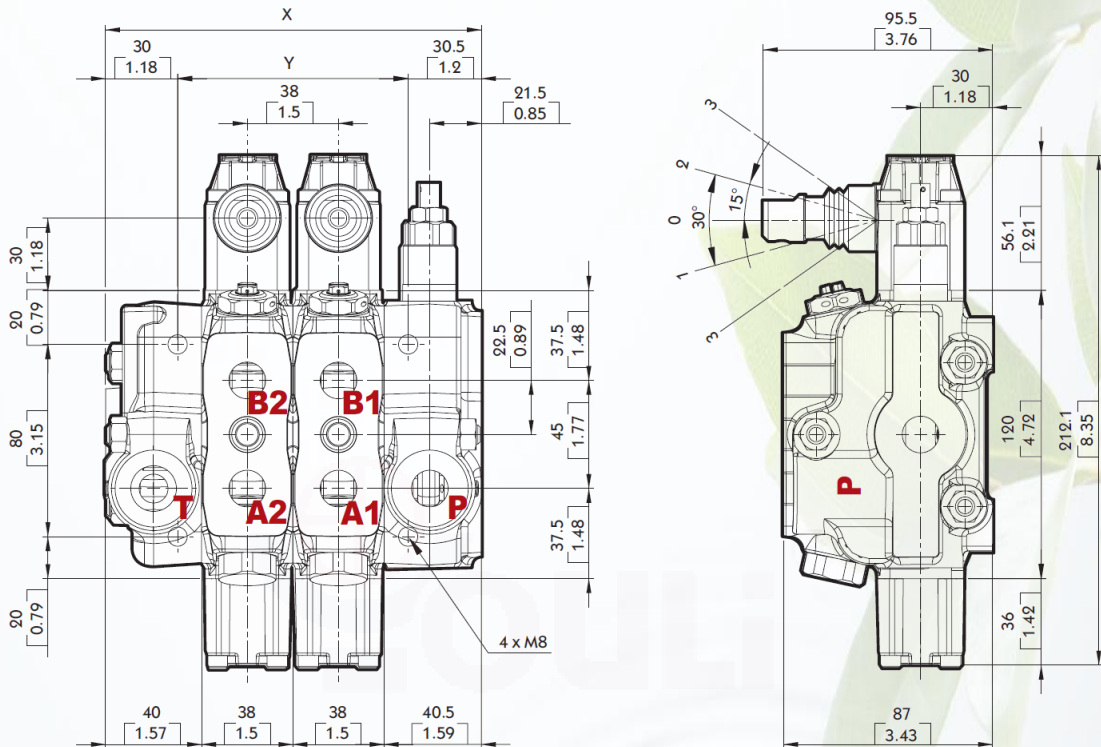


TYPE U



SN-3 SERIES – Sectional Directional Control Valves

Dimensions



STANDARD THREADS

PORTS	BSP
P	G 3/8
A and B	G 3/8
T and C	G 1/2

• G-3/8 : G3 G-1/2 : G4 G-3/4

STANDARD DIMENSIONS

TYPE	X		Y	
	mm	in	mm	in
SN3 /1S	118.5	4.66	58	2.28
SN3 /2S	156.5	6.16	96	3.78
SN3 /3S	194.5	7.66	134	5.28
SN3 /4S	232.5	9.15	172	6.77
SN3 /5S	270.5	10.65	210	8.27
SN3 /6S	308.5	12.15	248	9.76

TYPE	X		Y	
	mm	In	mm	in
SN3 /7S	346.5	13.65	286	11.26
SN3 /8S	384.5	15.15	324	12.76
SN3 /9S	422.5	16.65	362	14.26
SN3 /10S	460.5	18.15	400	15.76
SN3 /11S	498.5	19.65	438	17.26
SN3 /12S	536.5	21.15	476	18.76



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SN-3+4S-3(170)+18L+SP-18L+P3(G3-135)(G3-175)+SP-26-3MG1L(NO)+P1(G3-135)+EPCF3+16-1L+E10-8-10+M1
Dimensions



12

SN-3 SERIES – Sectional Directional Control Valves

SN-3+4S-3(170)+18L+SP-18L+P3(G3-135)(G3-175)+SP-26-3MG1L(NO)+P1(G3-135)+EPCF3+16-1L+E10-8-10+M1

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°	From -4° to 176° F
	With FPM(VITON) seal	From -20° to 100°	From -4° to 212° F
Viscosity	Operating range	From 15 to 75mm ² /s	From 15 to 75 cst
	Min.	12mm ² /s	12cst
	Max.	400mm ² /s	400 cst
Ambient temperature range		From -40° to 60°C	From -40° to 140° F

STANDARD THREADS

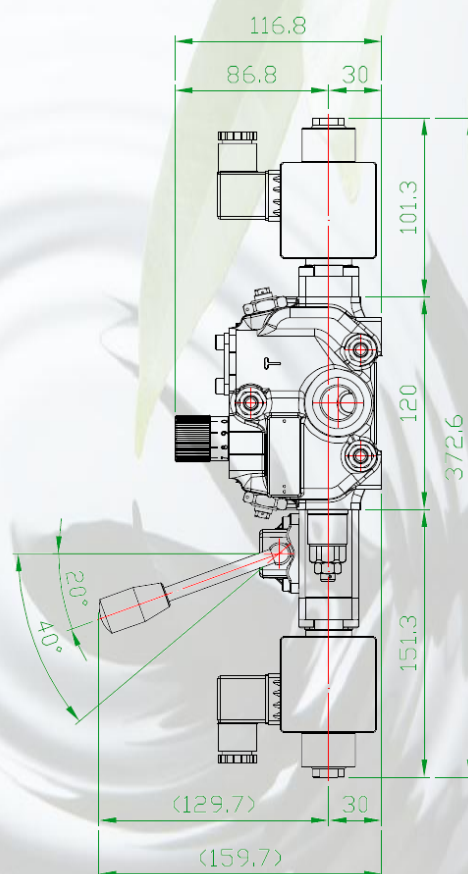
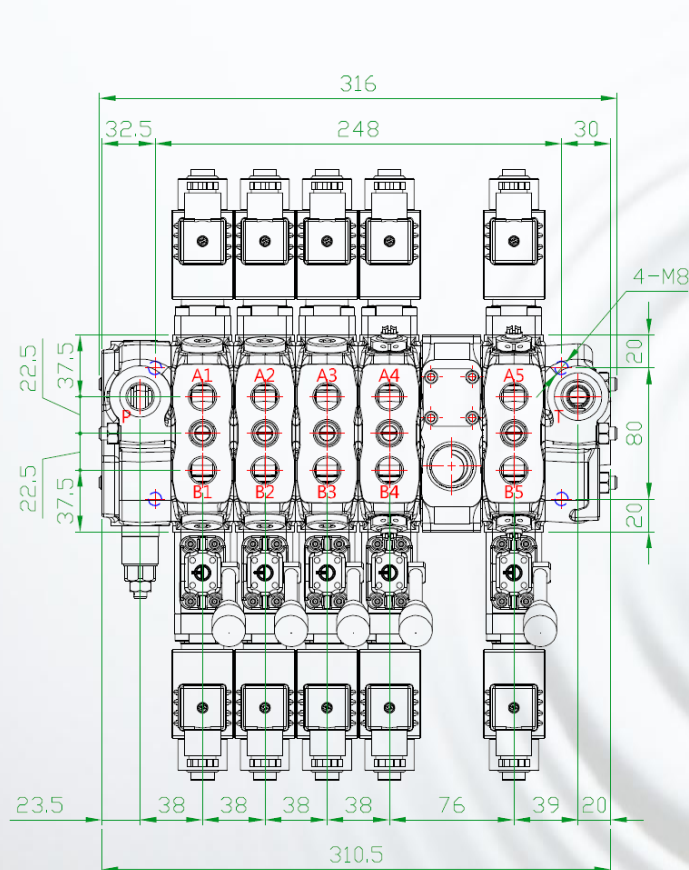
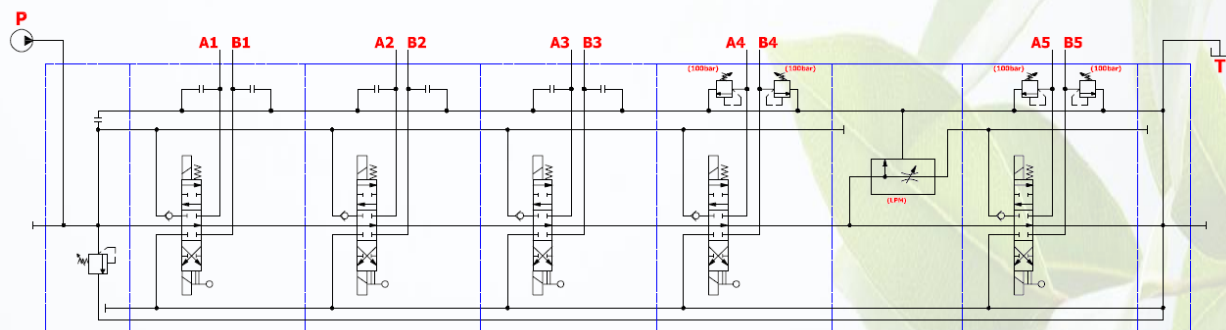
PORTS	UN-UNF
Inlet P	7/8-14 (SAE 10)
A and B	3/4-16 (SAE 8)
T and C	7/8-14 (SAE 10)

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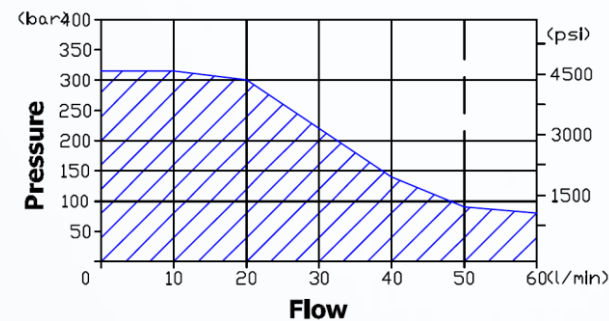
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SN-3+4S-3(170)+18L+SP-18L+P3(G3-135)(G3-175)+SP-26-3MG1L(NO)+P1(G3-135)+EPCF3+16-1L+E10-8-10+M1
Dimensions



SN-3 SERIES – Sectional Directional Control Valves

SN-3+4S-3(170)+18L+SP-18L+P3(G3-135)(G3-175)+SP-26-3MG1L(NO)+P1(G3-135)+EPCF3+16-1L+E10-8-10+M1



SPECIFICATIONS		
Standard Voltage	12VDC	24VDC
Electric Power	60W	60W
Protection Class	IP65	IP65

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°	From -4° to 176° F
	With FPM(VITON) seal	From -20° to 100°	From -4° to 212° F
Viscosity	Operating range	From 15 to 75mm ² /s	From 15 to 75 cst
	Min.	12mm ² /s	12cst
	Max.	400mm ² /s	400 cst
Ambient temperature range		From -40° to 60°C	From -40° to 140° F

STANDARD THREADS

PORTS	UN-UNF
Inlet P	7/8-14 (SAE 10)
A and B	3/4-16 (SAE 8)
T and C	7/8-14 (SAE 10)



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SN-3 SERIES – Sectional Directional Control Valves

Performance Curve Chart

