

WSN 4 SERIES

Sectional Directional Control Valves

FOR MOBILE AND INDUSTRIAL
HYDRAULIC APPLICATIONS



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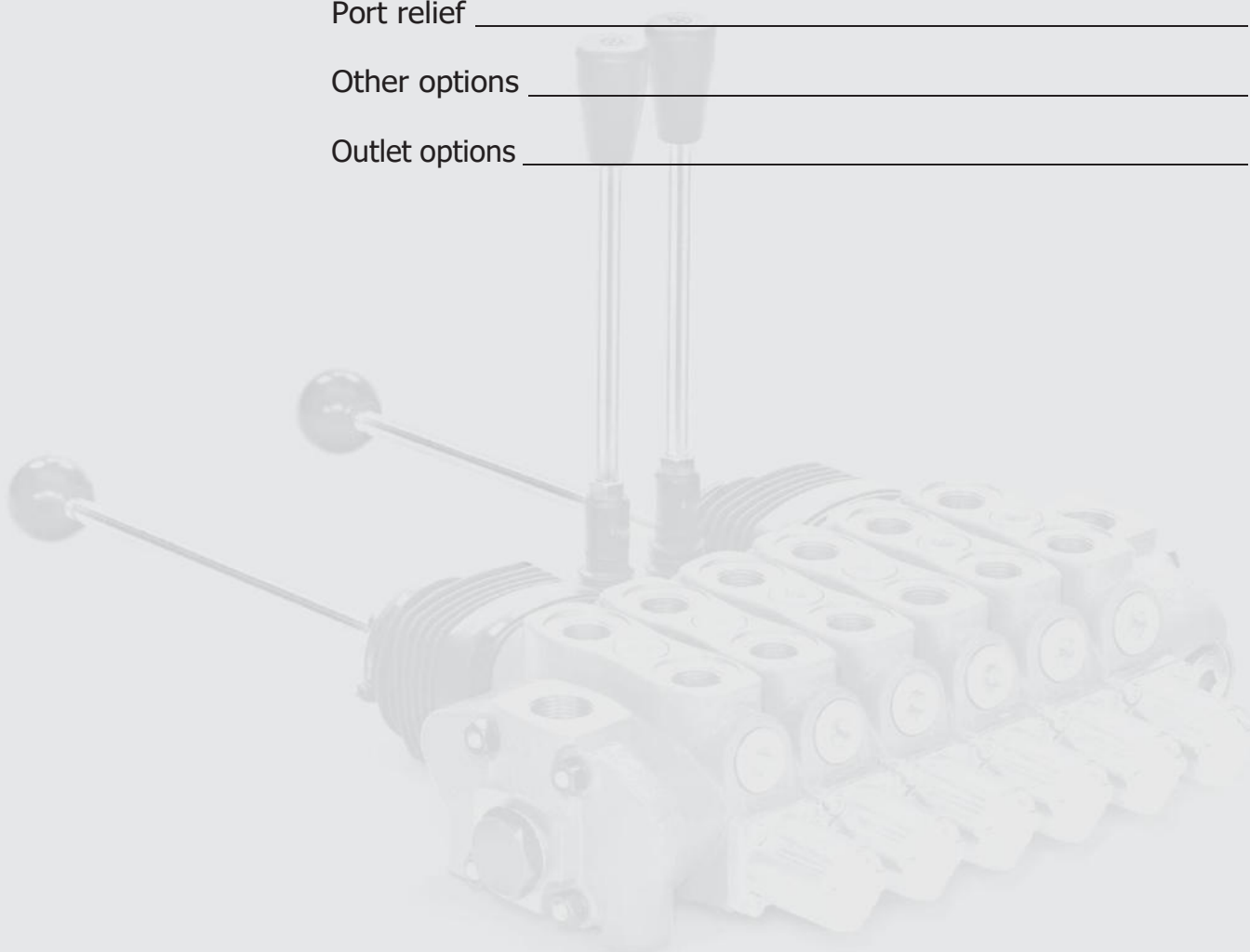
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WSN-4 Chapters

Sectional Directional Control Valves

Dimension / Spec _____	P.5
Ordering code _____	P.7
Performance data _____	P.12
Inlet relief options _____	P.13
Spool options _____	P.15
A side options _____	P.19
B side spool positioners _____	P.24
Port relief _____	P.31
Other options _____	P.32
Outlet options _____	P.36



MONOBLOCK DIRECTIONAL CONTROL VALVES

WIMB-2 / WIMB-3 / WIMB-4 / WIMB-5 / MSB-5

SECTIONAL DIRECTIONAL CONTROL VALVES

WSN-3 / WSN-4 / WSN-6 / WSN-8



WIMB-2

ONLY ONE SECTION AVAILABLE

Nominal flow rate	45 l/min	12 US gpm
Operating pressure (maximum)	250 bar	3600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



WIMB-3

AVAILABLE SECTIONS FROM 1 TO 7

Nominal flow rate	45 l/min	12 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



WIMB-4

AVAILABLE SECTIONS FROM 1 TO 6

Nominal flow rate	60 l/min	16 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



WIMB-5

AVAILABLE SECTIONS FROM 1 TO 6

Nominal flow rate	80 l/min	21 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi

MSB-5

AVAILABLE SECTIONS FROM 1 TO 6

With Independent load check valve in each section, and optional port relief.



Nominal flow rate	80 l/min	21 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi

WSN-3

AVAILABLE SECTIONS FROM 1 TO 12



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

WSN-4

AVAILABLE SECTIONS FROM 1 TO 12



Nominal flow rate	80 l/min	21 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi

WSN-6

AVAILABLE SECTIONS FROM 1 TO 12



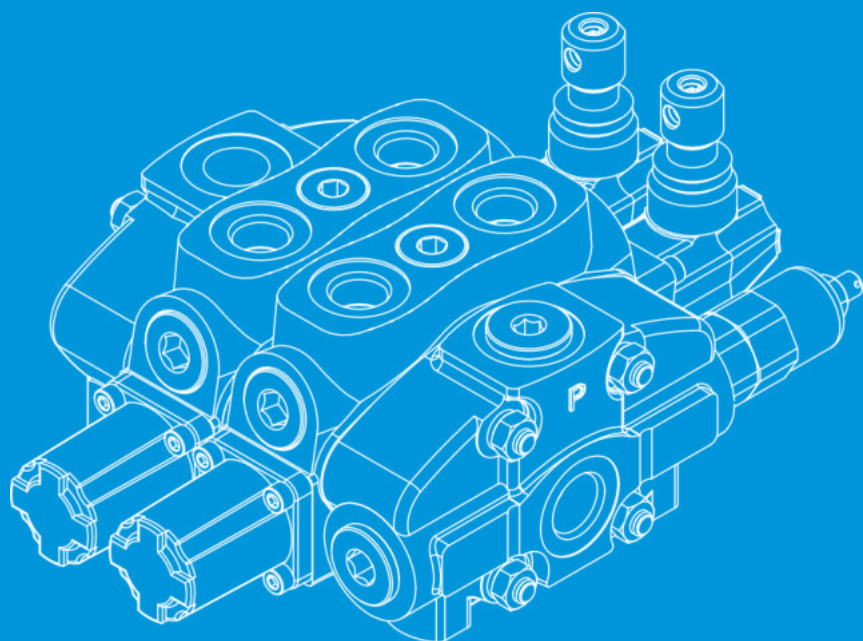
Nominal flow rate	160 l/min	42 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi

WSN-8

AVAILABLE SECTIONS FROM 1 TO 12



Nominal flow rate	240 l/min	63 US gpm
Operating pressure (maximum)	315 bar	4600 psi
Back pressure (maximum) on outlet port T	25 bar	360 psi



*Innovative Designs
Professional Quality
Customer Satisfaction !*

AVAILABLE SECTIONS FROM

1 TO **12**

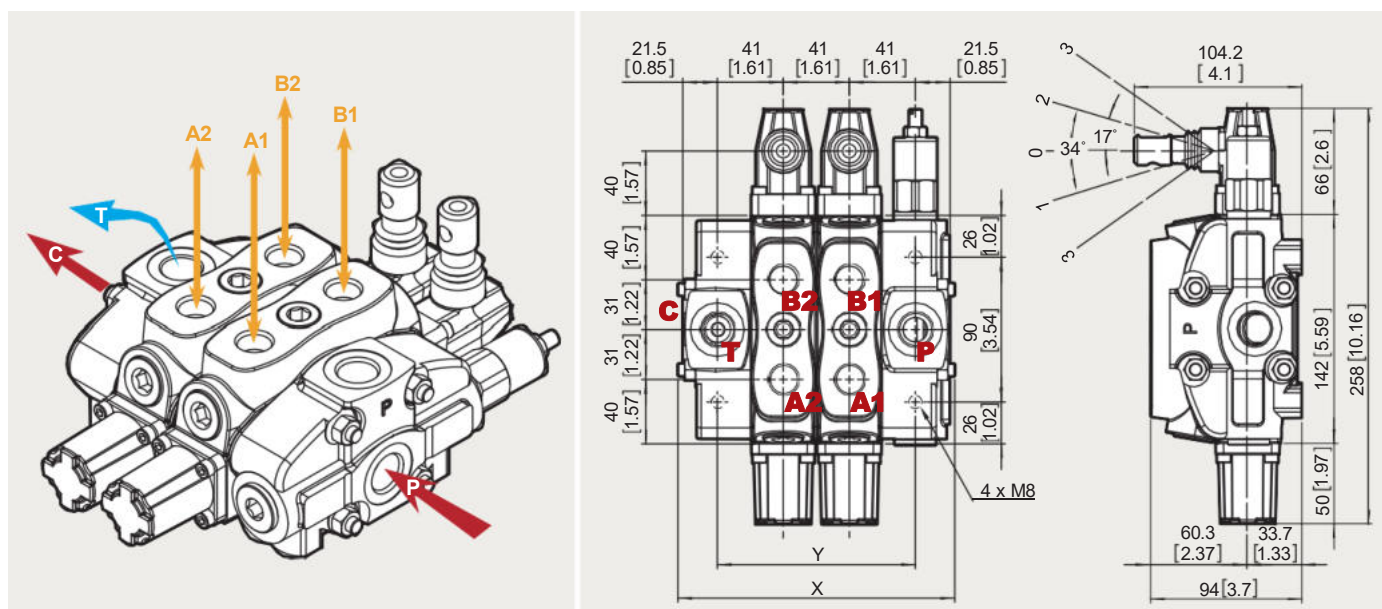
WSN-4

Sectional Directional Control Valves



WSN-4

Sectional Directional Control Valves



WSN-4 Specifications

Nominal flow		80 l/min	21 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
	operating range	from 15 to 75 mm²/s	from 15 to 75 cst
	min	12 mm²/s	12 cst
Viscosity	max.	400 mm²/s	400 cst
	AWIMBient 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.

Standard threads

PORTS	Inlet P and carry-over C	A and B	Outlet T	PILOT PORTS	Hydraulic	Pneumatic
BSP	G1/2	G1/2	G3/4	BSP	G1/4	NPTF 1/8-27
UN-UNF	7/8-14 UNF-2B (SAE 10)	3/4-16 UNF-2B (SAE 8)	7/8-14 UNF-2B (SAE 10)	UN-UNF	9/16-18 UNF-2B (SAE 6)	NPTF 1/8-27
METRIC	M22 x 1.5	M22 x 1.5	M22 x 1.5	METRIC	G1/4	NPTF 1/8-27

• 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
WSN4 /1S	128	5.04	82	3.23	WSN4 /7S	374	14.72	328	12.91
WSN4 /2S	169	6.65	123	4.84	WSN4 /8S	415	16.33	369	14.52
WSN4 /3S	210	8.27	164	6.46	WSN4 /9S	456	17.94	410	16.13
WSN4 /4S	251	9.88	205	8.07	WSN4 /10S	497	19.55	451	17.74
WSN4 /5S	292	11.5	246	9.69	WSN4 /11S	538	21.16	492	19.35
WSN4 /6S	333	13.11	267	11.3	WSN4 /12S	579	22.77	533	20.96

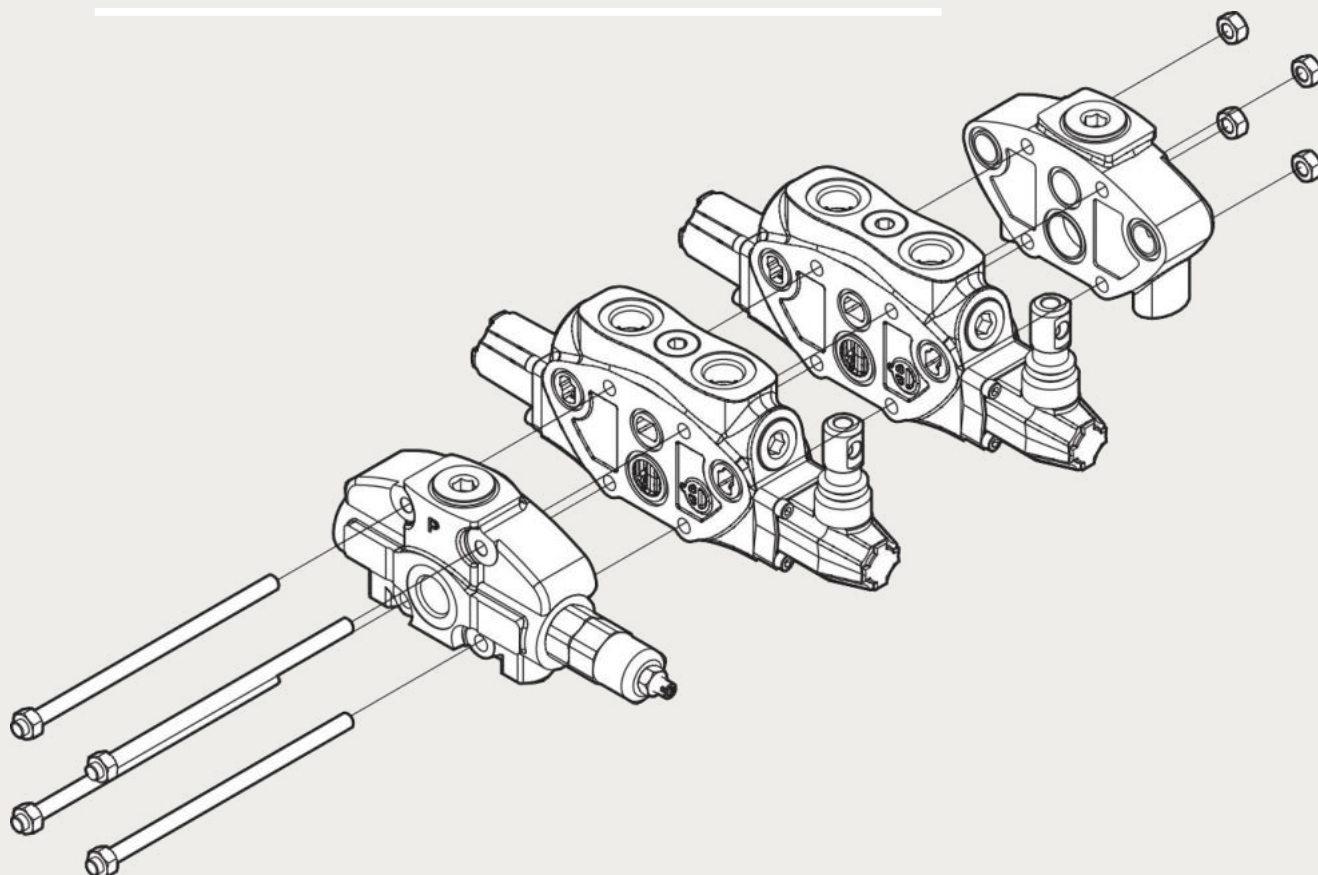
WSN-4 Complete

Sectional Directional Control Valves

HOW TO ORDER FOR A COMPLETE ASSEMBLED VALVE

WSN-4 / **2S** - **3** / **18L** / **28L** / **G-4-6** / **M3**

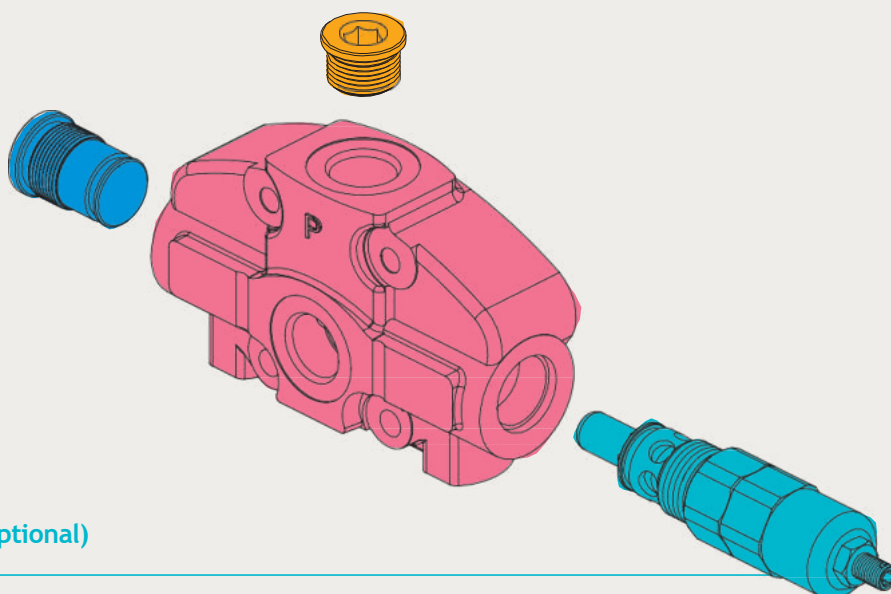
2S	No. of working section
3	Inlet cover with a main pressure relief valve
18L	1st section (complete working section)
28L	Following section (complete working section)
G-4-6	BSP ports
M3	Outlet cover



WSN-4 Inlet Section

Sectional Directional Control Valves

FP WSN-4 / SG-3 / G4



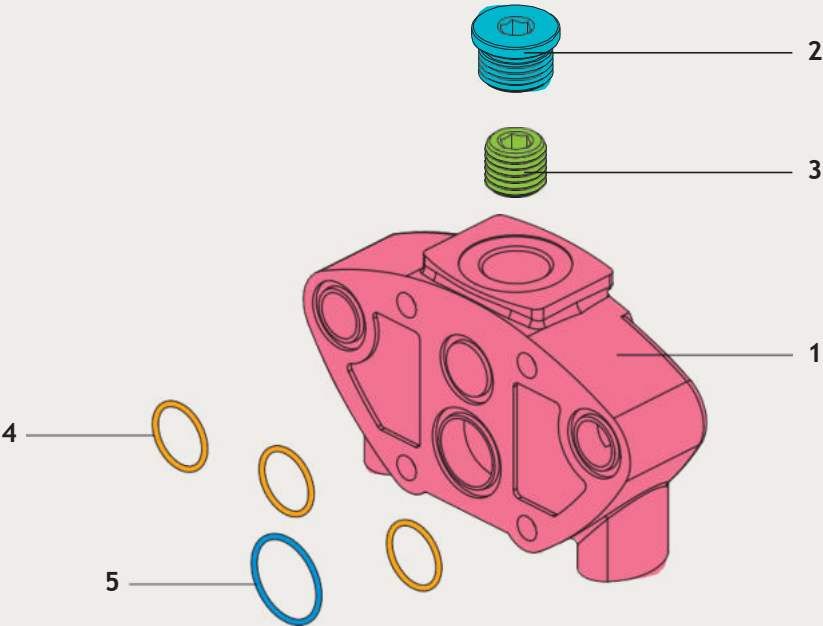
Inlet relief (optional)

Inlet Relief (optional)			
TYPE	CODE	DESCRIPTION	PAGE
SG-2	YLPWSN43002	Range 80 to 160 bar / 1150 to 2300 psi , standard setting 125 bar / 1800 psi	P. 13
SG-3	YLPWSN43003	Range 125 to 250 bar / 1800 to 3600 psi , standard setting 175 bar / 2500 psi	P. 13
SG-4	YLPWSN43004	Range 200 to 315bar / 2900 to 4600 psi , standard setting 220 bar / 3200 psi	P. 13
		Standard setting is referred to 10 l/min - 2.6 US gpm flow.	P. 13
XSG	YLX21000	Pilot operated pressure relief valve Range 25 to 315 bar/ 360 to 4600 psi, standard setting 125 bar/ 1800 psi	P. 13
SV	YLPWSN44000	Relief valve blanking plug	P. 14
R4	YLPWSN440R4	Manual rotary backhoe clamp device	P. 14

WSN-4 Outlet Section

Sectional Directional Control Valves

FT WSN-4 / G-6 / M3



Outlet section		
NO.	NAME OF PARTS	Q
1	Outlet cover body	1
2	Plug	1
3	M18 x 1.5 Plug	1

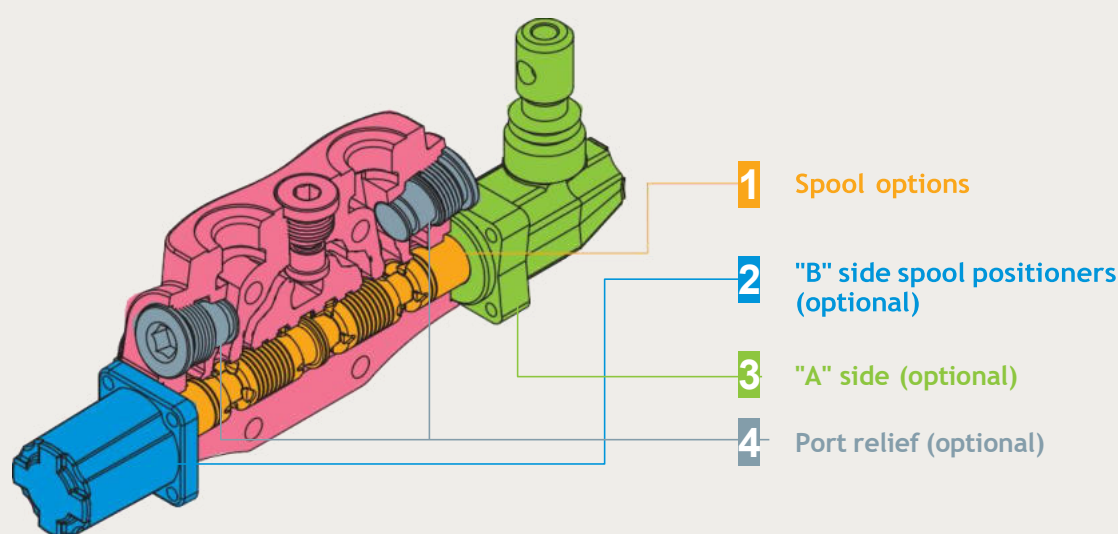
Outlet section		
NO.	NAME OF PARTS	Q
4	O-ring seal (18.77 x 1.78 NBR 70 SH)	3
5	O-ring seal (25.12 x 1.78 NBR 70 SH)	1

WSN-4 Working Section

Sectional Directional Control Valves

EW WSN-4 / 1S / **1** **8L** / **P1(G3-100)** / G-4

1 2 3 4



1: Spool options

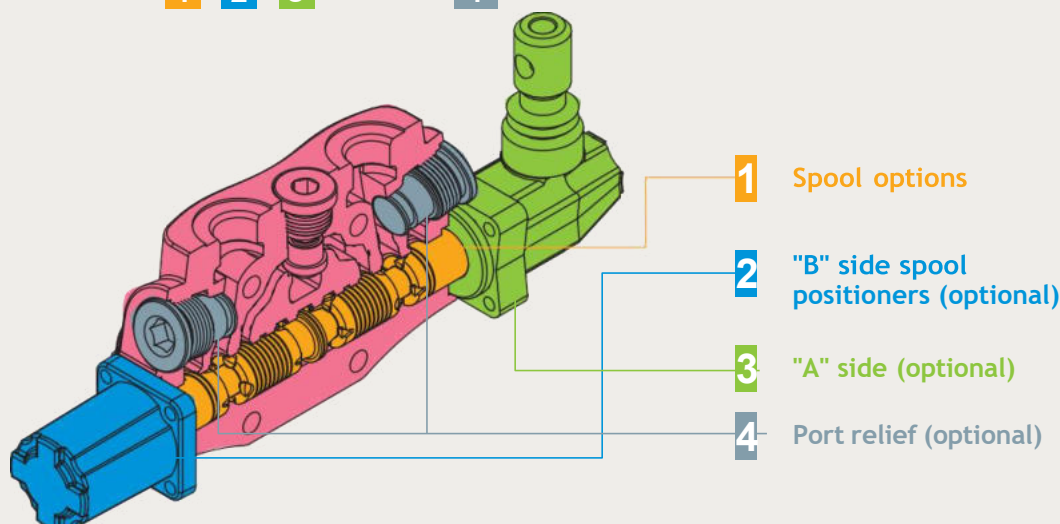
TYPE	CODE	DESCRIPTION	PAGE
1	YLWWSN42001	Double acting, 3 positions, with A and B closed in neutral position	P. 15
2	YLWWSN42002	Double acting, 3 positions, with A and B open to tank in neutral position	P. 15
3	YLWWSN42003	Single acting on A closed in neutral position, 3 positions, B plugged	P. 16
4	YLWWSN42004	Single acting on B closed in neutral position, 3 positions, A plugged	P. 16
5	YLWWSN42005	Double acting, 3 positions, with B open to Tank in neutral position	P. 17
6	YLWWSN42006	Double acting, 3 positions, with A open to Tank in neutral position	P. 17
SPY	YLWWSN43051	Double acting, 4 positions, floating circuit in 4th position with A, B open to Tank by pushing the lever	P. 18

WSN-4 Working Section

Sectional Directional Control Valves

EW WSN-4 / 1S / **1** **8L** / P1(G3-100) / G-4

1 2 3 4



2: B Side Spool Positioners

		YLWWSN438041 YLWWSN43008 YLWWSN44081 YLWWSN44082	
TYPE	CODE	YLWWSN43091 YLWWSN43092 YLWWSN43093 YLWWSN43071	DESCRIPTION
6-1	YLWWSN4306	YLWWSN43072 YLWWSN43073 YLWWSN430810 YLWWSN430811	Detent in pos. 1-0-2, without spring centered
6-2	1		2 positions,
6-3	YLWWSN4306		detent in
8D2	2		pos. 0-2,
8P	YLWWSN4306		without
8EP3	3		spring
8MG1 (NO)	YLWWSN4308		centered 2
8MG2 (NO)	2		positions,
8MG3 (NO)	YLWWSN4308		detent in
MG (NO)	0		pos. 1-0,
8MG1 (NC)	YLWWSN4430		without
8MG2 (NC)	0		spring
8MG3 (NC)	YLWWSN4380		centered
MG (NC)	1		With spring return to neutral position
8	YLWWSN4380		and pin with M8 male thread for dual
8-1	2		control ON/OFF Pneumatic actuator
8-2	YLWWSN4380		ON/OFF Electro-Pneumatic actuator
9-1	3		Microswitch kit
9-2	YLWWSN4380		operated in pos. 1
9-3	4		(Normally Open)
8IJ1	YLWWSN43801		Microswitch kit
8IJ2	1		operated in pos. 2
8IJ3	YLWWSN43802		(Normally Open)
8IM	1		Microswitch kit
8IMM	YLWWSN43803		operated in pos. 1 &
	1		2 (Normally Open)

Mi	a	witch with NC terminal	
cr	ll	With spring return to neutral position	
os	y	2 positions, with spring centered from pos. 1	P. 24
wi	C	2 positions, with spring centered from pos. 2	P. 24
tc	l	Detent in pos. 1, 2 with spring centered	P. 24
h	o	Detent in pos. 2 with spring centered	P. 24
wi	s	Detent in pos. 1 with spring centered	P. 25
th	e	External hydraulic pilot for return from position 1 to neutral.	P. 25
N	d	External hydraulic pilot for return from position 2 to neutral.	P. 28
O	)	External hydraulic pilot for return from position 1 & 2 to neutral.	P. 28
te	M	Hydraulic pilot with single spring, exclusive for standard spool (Type 1 & 2).	P. 28
r	ic	Hydraulic pilot with dual springs, exclusive for specialized spool.	P. 28
mi	r		P. 28
na	o		P. 28
l	s		P. 28
Mi	w		P. 28
cr	it		P. 29
os	c		P. 29
wi	h		P. 29
tc	ki		P. 30
h	t		P. 30
kit	o		P. 30
op	p		P. 29
er	e		P. 29
at	r		P. 29
ed	a		P. 30
in	t		P. 30
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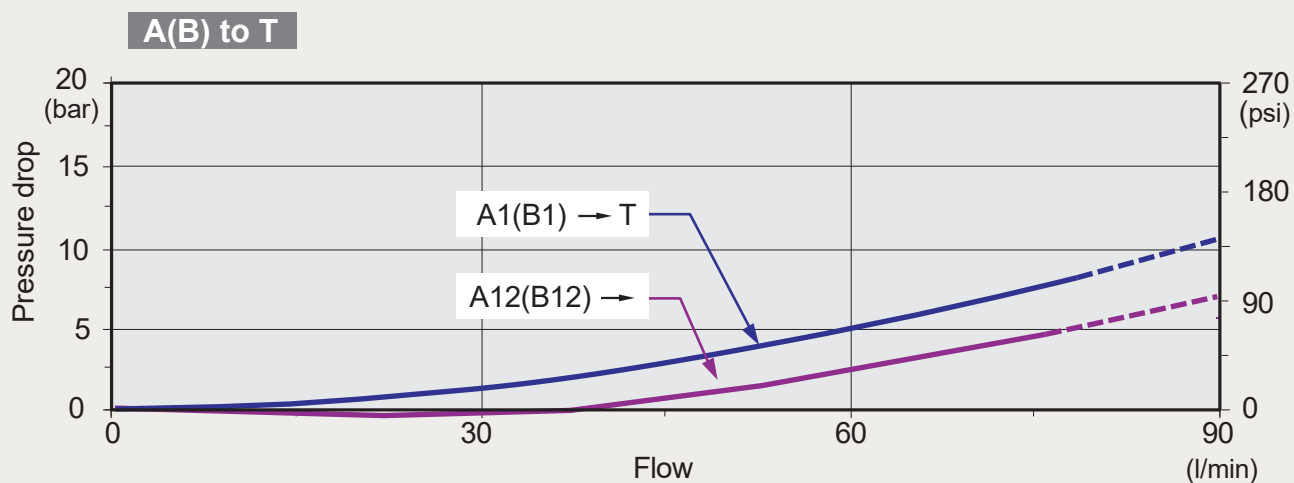
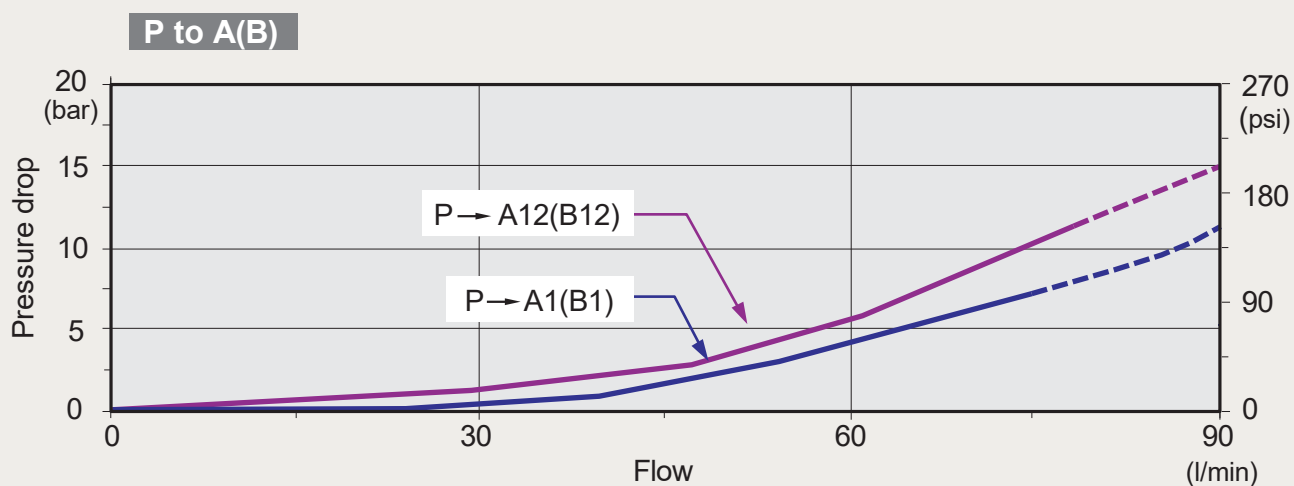
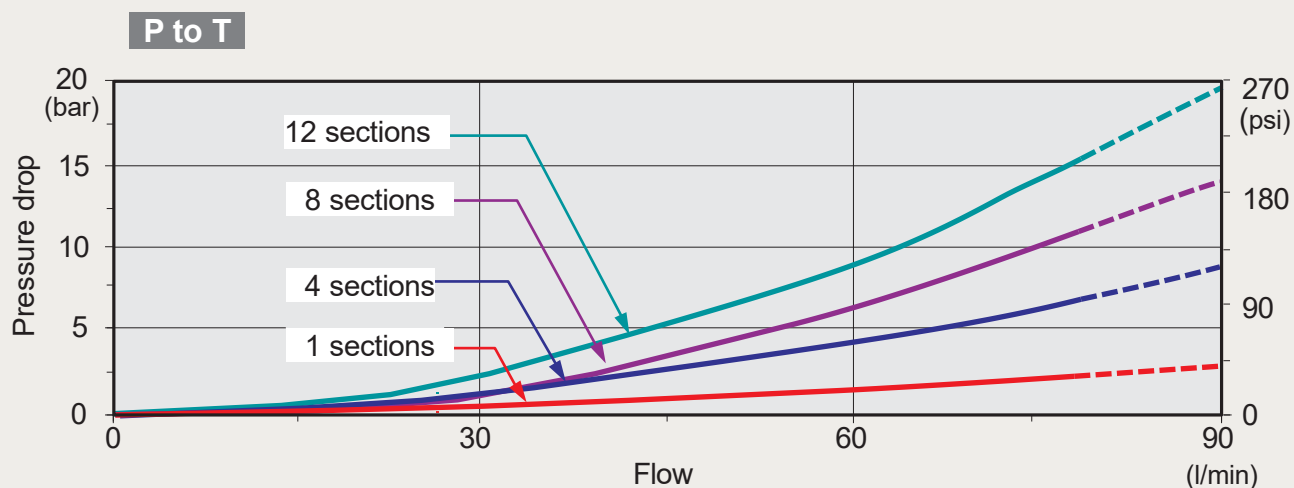
2:	B Side Spool Positioners		
TYPE	CODE	DESCRIPTION	PAGE
8ED3+RV-KE1R3	YLWWSN43201	1S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE2R3	YLWWSN43202	2S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE3R3	YLWWSN43203	3S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE4R3	YLWWSN43204	4S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE5R3	YLWWSN43205	5S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE6R3	YLWWSN43206	6S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE7R3	YLWWSN43207	7S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE8R3	YLWWSN43208	8S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE9R3	YLWWSN43209	9S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE10R3	YLWWSN43210	10S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE11R3	YLWWSN43211	11S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ED3+RV-KE12R3	YLWWSN43212	12S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC)	P. 26
8ER3+KE1S0	YLWWSN43401	1S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE2S0	YLWWSN43402	2S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE3S0	YLWWSN43403	3S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE4S0	YLWWSN43404	4S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE5S0	YLWWSN43405	5S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE6S0	YLWWSN43406	6S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE7S0	YLWWSN43407	7S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE8S0	YLWWSN43408	8S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE9S0	YLWWSN43409	9S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE10S0	YLWWSN43410	10S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE11S0	YLWWSN43411	11S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27
8ER3+KE12S0	YLWWSN43412	12S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain	P. 27

3:	A Side (Optional)		
TYPE	CODE	DESCRIPTION	PAGE
L	YLWWSN44000	Standard lever	P. 19
SLP	YLWWSN44001	Without lever, with dust proof plate	P. 19
LCB	YLWWSN44002	Joystick lever for 2 section operation	P. 20
TQ	YLWWSN44003	Flexible cable connection	P. 21

4:	Port Relief (Optional)		
TYPE	CODE	DESCRIPTION	PAGE
P (G2-63)	YLWWSN45002	Anti-shock valve, range 63 to 125 bar / from 900 to 1800 psi standard setting 63 bar / 900 psi	P. 31
P (G3-100)	YLWWSN45003	Anti-shock valve, range 100 to 250 bar / from 1450 to 3600 psi standard setting 100bar / 1450 psi	P. 31
P (G4-200)	YLWWSN45004	Anti-shock valve, range 200 to 315 bar / from 2900 to 4600 psi standard setting 200 bar / 2900 psi	P. 31
PM (G2-63)	YLWWSN45005	Anti-shock valve, range 63 to 125 bar / from 900 to 1800 psi standard setting 63 bar / 900 psi, for low setting	P. 31
U (G2-63)	YLWWSN45012	Anti-shock valve and Anti-cavitation valve, range 63 to 125 bar / from 900 to 1800 psi standard setting 63 bar / 900 psi	P. 31
U (G3-100)	YLWWSN45013	Anti-shock valve and Anti-cavitation valve, range 100 to 250 bar / from 1450 to 3600 psi standard setting 100 bar / 1450 psi	P. 31
U (G4-200)	YLWWSN45014	Anti-shock valve and Anti-cavitation valve, range 200 to 315 bar / from 2900 to 4600 psi standard setting 200 bar / 2900 psi	P. 31
C	YLWWSN45100	Anti - cavitation valve	P. 31

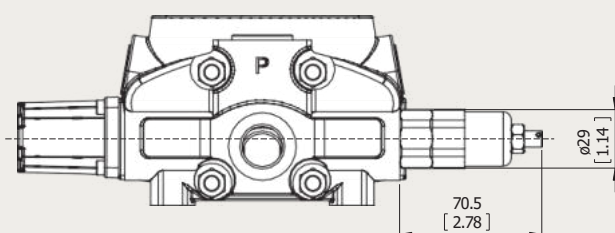
WSN-4 Performance Curve Chart

Sectional Directional Control Valves

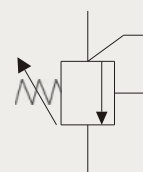


WSN-4 Inlet Relief (Optional) Sectional Directional Control Valves

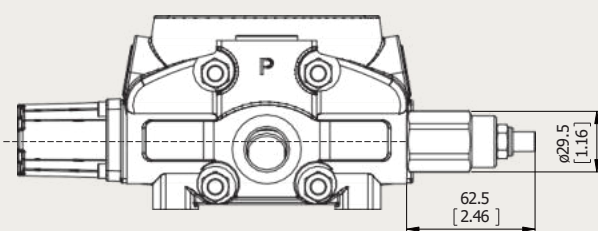
Type SG



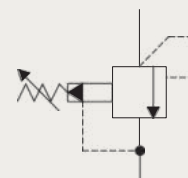
Direct pressure relief valve:



Type XSG

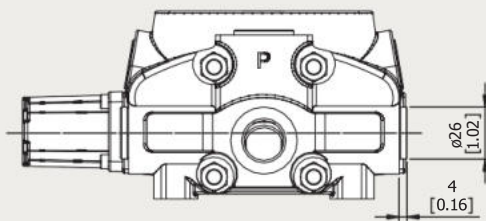


Pilot operated pressure relief valve:



WSN-4 Inlet Relief (Optional) Sectional Directional Control Valves

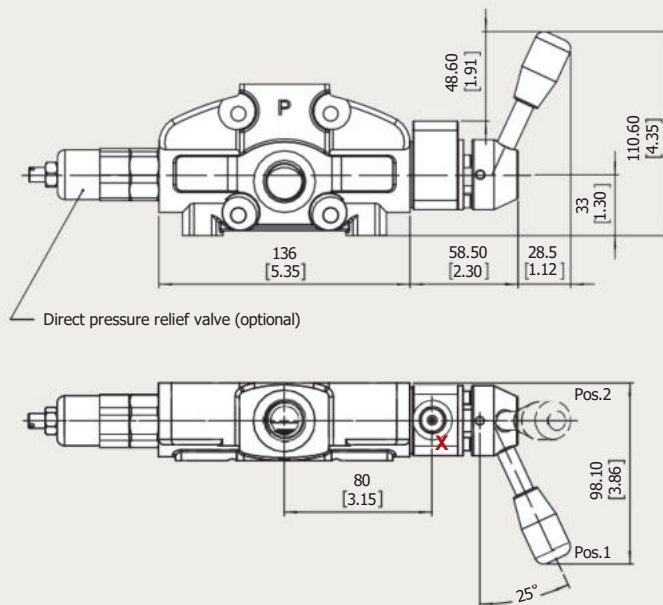
Type SV



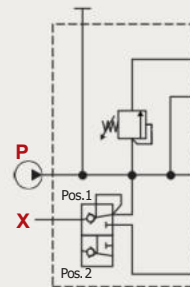
Relief valve blanking plug:



Type R4



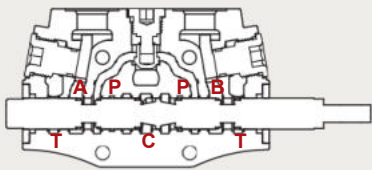
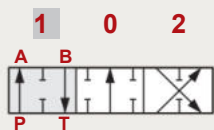
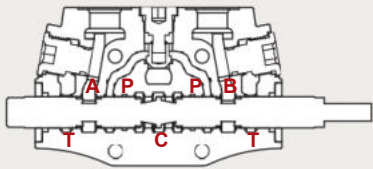
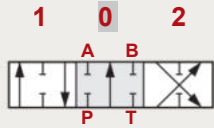
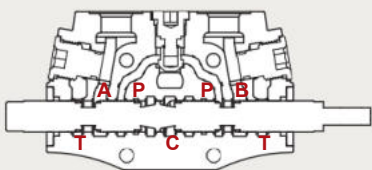
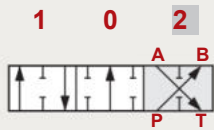
R4 commutator:



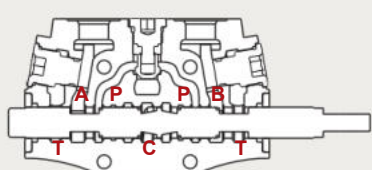
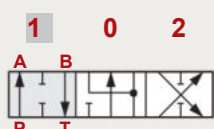
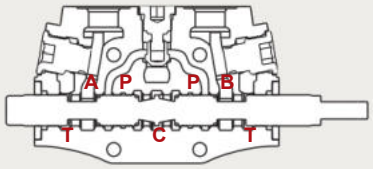
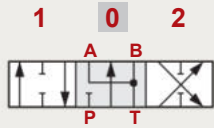
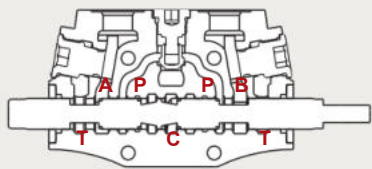
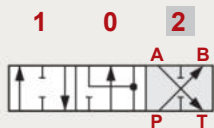
WSN-4 Spool Options

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	

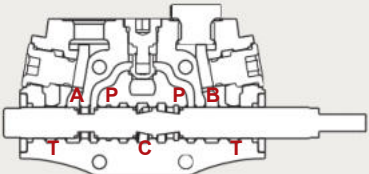
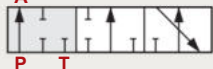
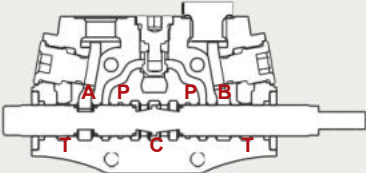
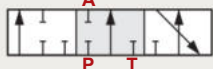
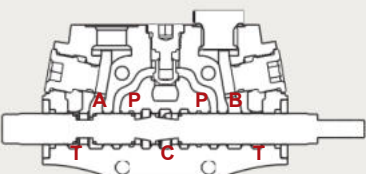
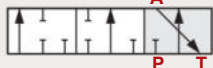
TYPE 2

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

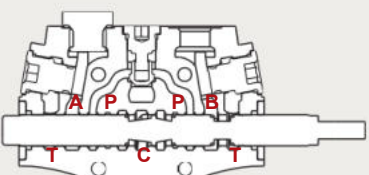
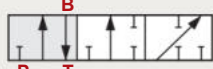
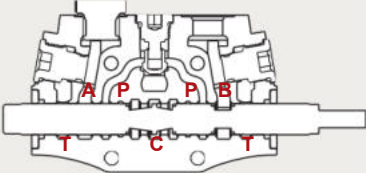
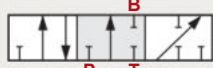
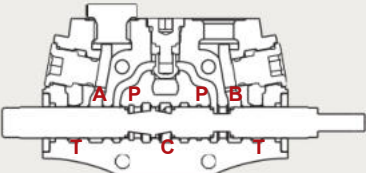
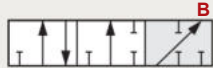
WSN-4 Spool Options

Sectional Directional Control Valves

TYPE 3

	$P \rightarrow A$ C closed	1 0 2 A P T "B" port plugged 
	P & A closed C open	1 0 2 A P T "B" port plugged 
	$A \rightarrow T$ P closed C open	1 0 2 A P T "B" port plugged 

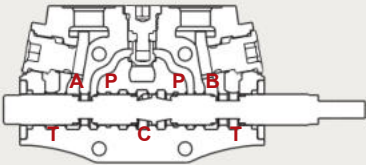
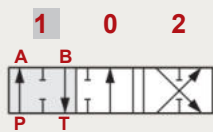
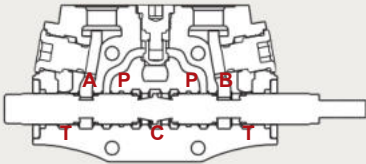
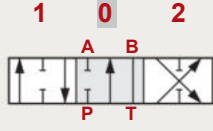
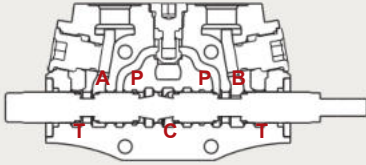
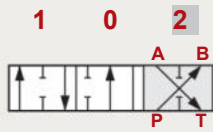
TYPE 4

	$B \rightarrow T$ P closed C open	1 0 2 B P T "A" port plugged 
	P & B closed C open	1 0 2 B P T "A" port plugged 
	$P \rightarrow B$ C closed	1 0 2 B P T "A" port plugged 

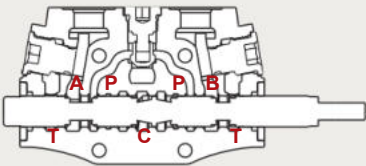
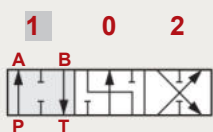
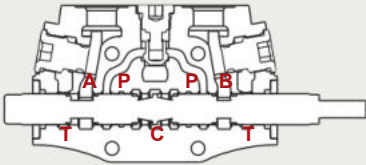
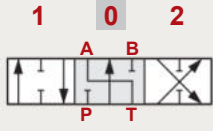
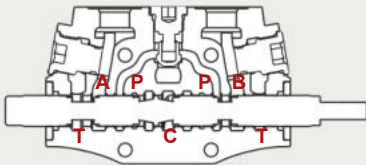
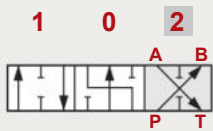
WSN-4 Spool Options

Sectional Directional Control Valves

TYPE 5

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

TYPE 6

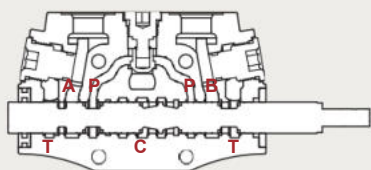
	P → A B → T C closed	
	A → T P & B closed C open	
	P → B A → T C closed	

WSN-4 Spool Options

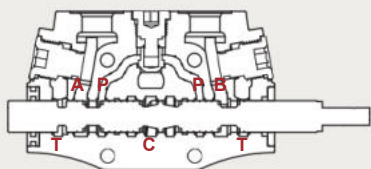
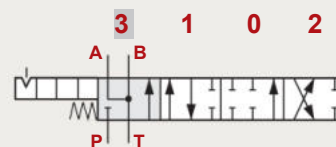
Sectional Directional Control Valves

TYPE 5PY

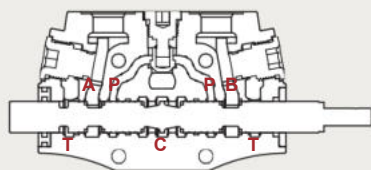
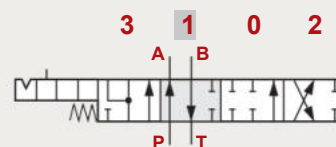
NOTE : WITH SPECIAL BODY AND SPECIAL POSITIONER.



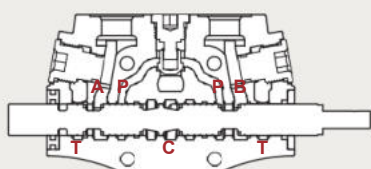
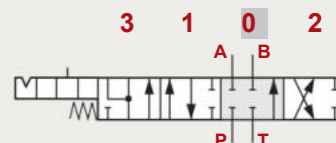
A & B → T
P closed
C open



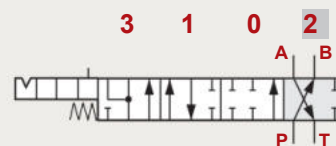
P → A
B → T
C closed



P & T & A & B closed
C open



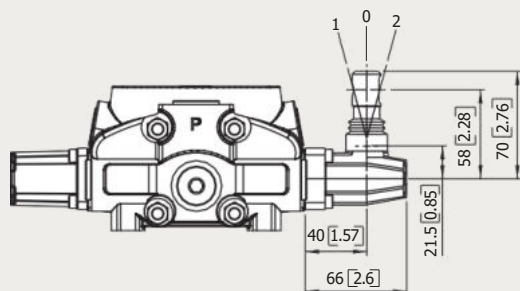
P → B
A → T
C closed



WSN-4 A Side

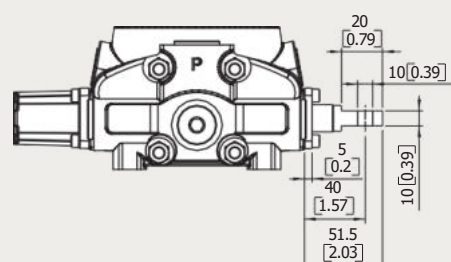
Sectional Directional Control Valves

Type L



Type L:
STANDART LEVER KIT

Type SLP

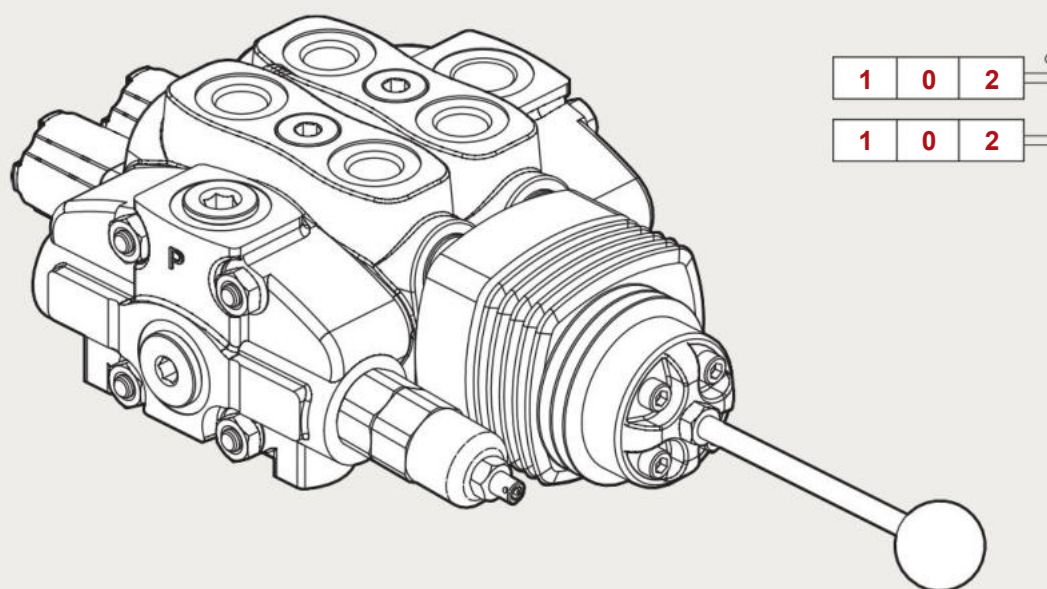


Type SLP:
WITH DUST-PROOF PLATE

WSN-4 A Side

Sectional Directional Control Valves

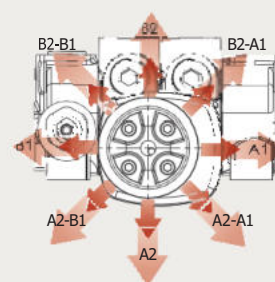
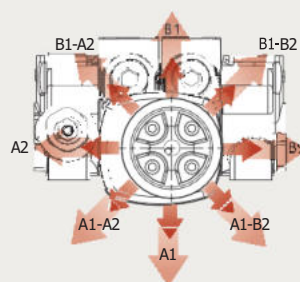
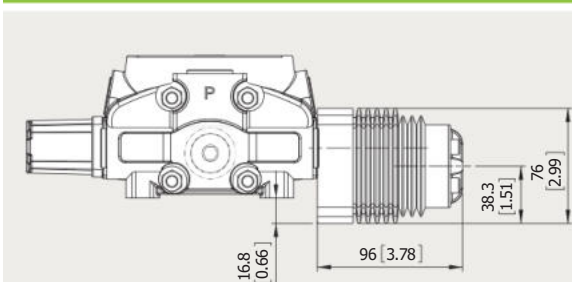
LCB: Joystick control



Type LCB

LCB1

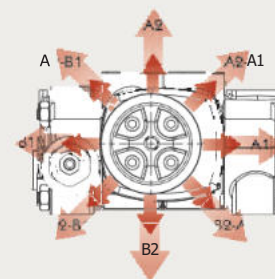
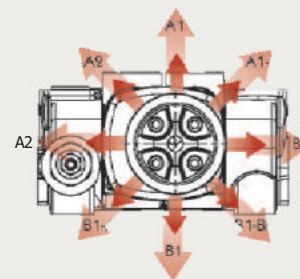
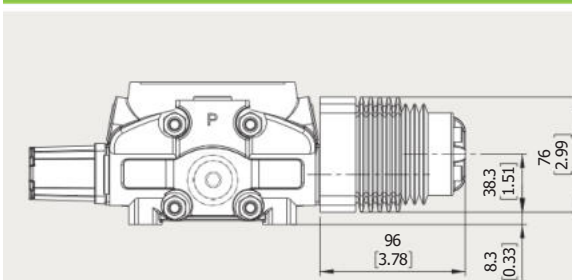
LCB2



Type LCB

LCB3

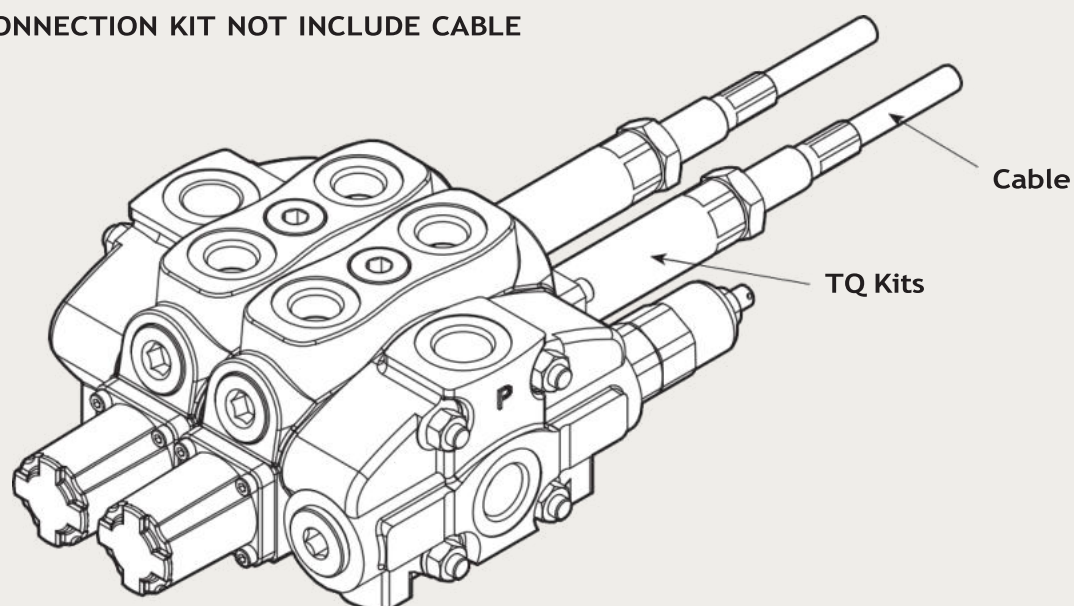
LCB4



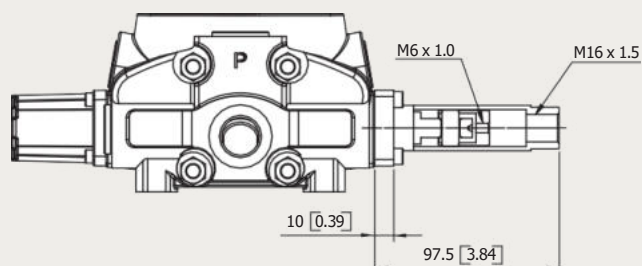
WSN-4 A Side

Sectional Directional Control Valves

Note : CONNECTION KIT NOT INCLUDE CABLE



Type TQ

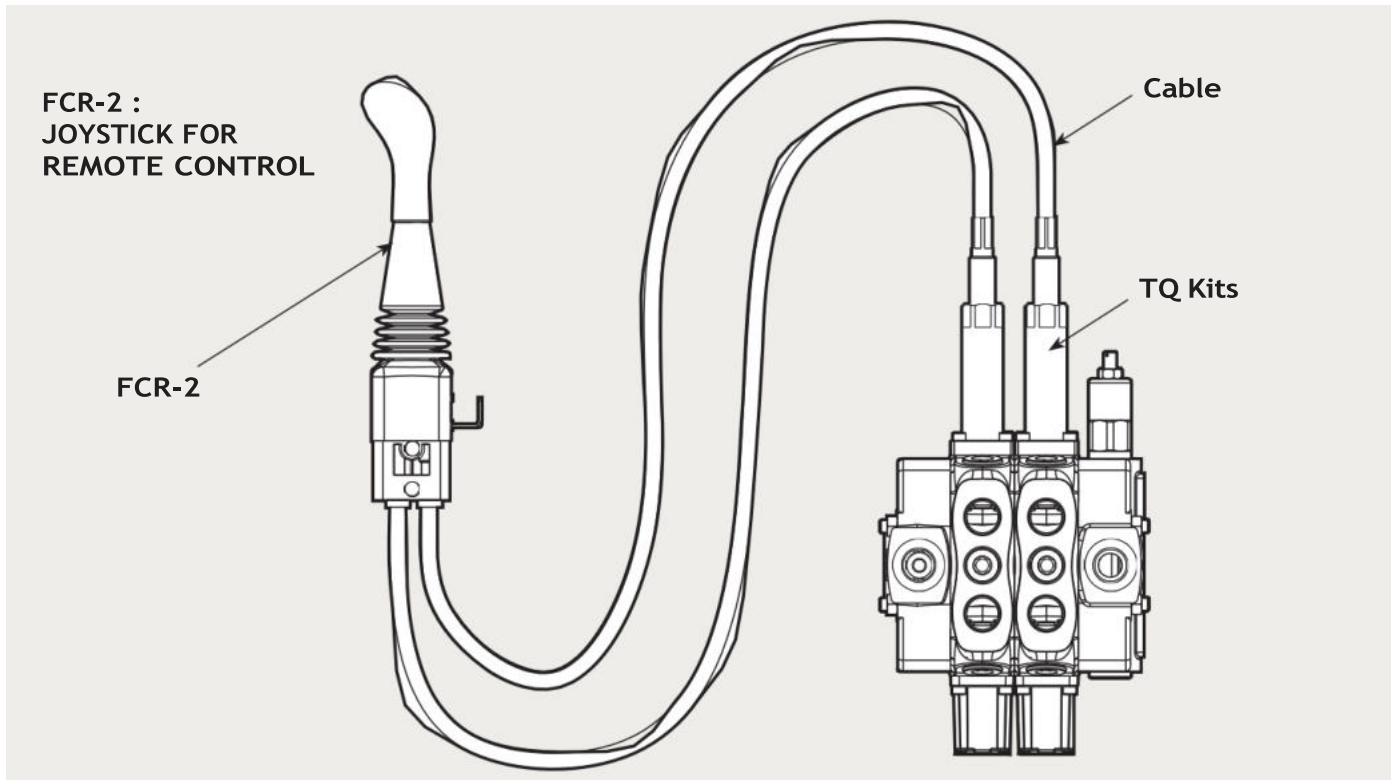


TQ Kit:

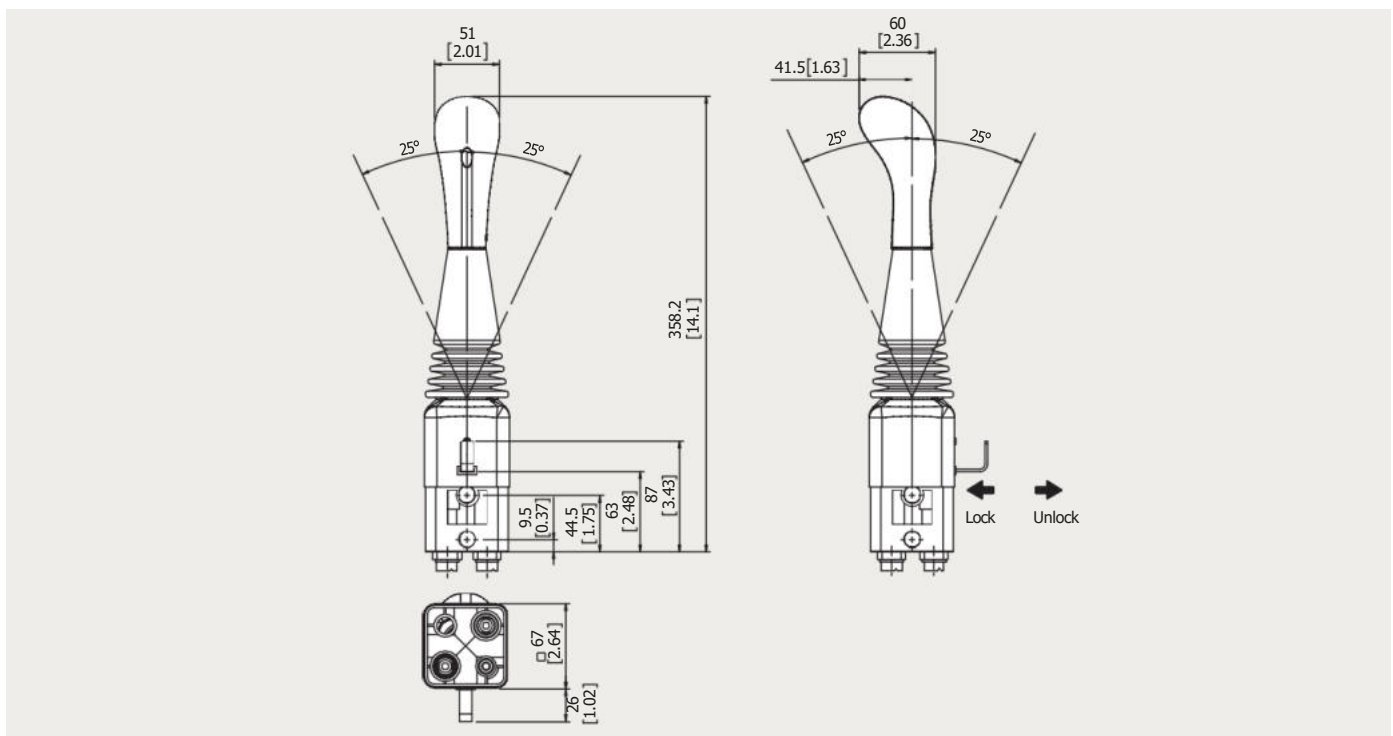


WSN-4 A Side

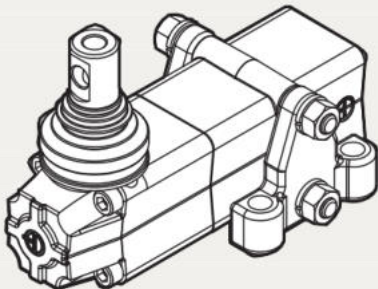
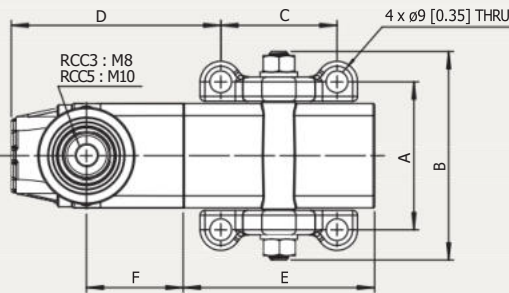
Sectional Directional Control Valves



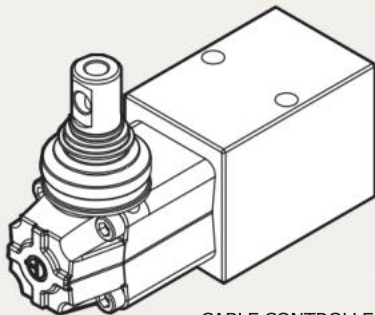
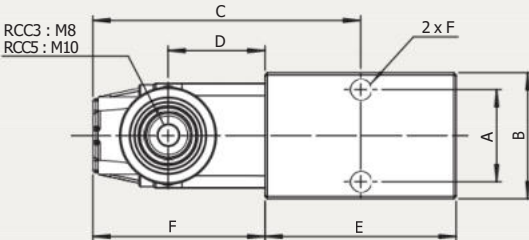
Type FCR-2



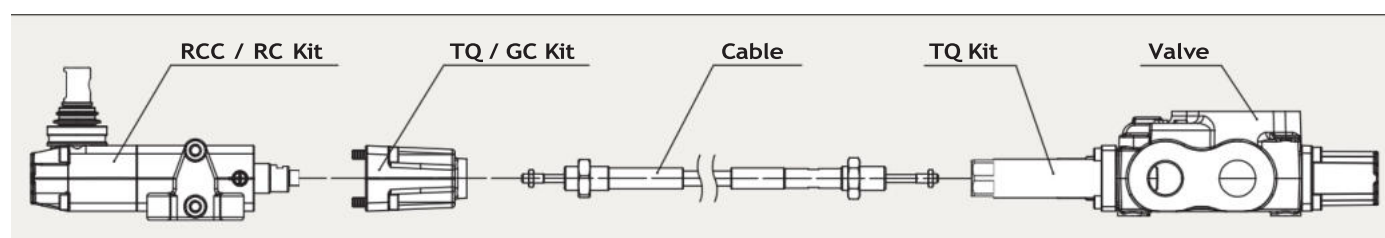
WSN-4 Flexible Cable Remote Controls (One Section Operation) Sectional Directional Control Valves

Type RCC														RCC Available sections from 1 to 7														Product		Code	
 CABLE CONTROLLER																												WIMB2		RCC-3	
																												WIMB3		RCC-3	
																												WIMB4		RCC-3	
																												WIMB5		RCC-5	
																												MSB3		RCC-3	
																												MSB5		RCC-5	
																												WSN3		RCC-3	
																												WSN4		RCC-5	
WS		RCC-5																													
N6		RCC-5																													

TYPE	RCC5/1		RCC5/2		RCC5/3		RCC5/4		RCC5/5		RCC5/6		RCC5/7		RCC3/1		RCC3/2		RCC3/3		RCC3/4		RCC3/5		RCC3/6		RCC3/7	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
A	61	2.4	106	4.17	151	5.94	196	7.72	241	9.49	286	11.26	331	13.03	56	2.20	96	3.78	136	5.35	176	6.93	216	8.50	256	10.08	296	11.65
B	86	3.39	131	5.16	176	6.93	221	8.7	266	10.47	311	12.24	356	14.02	73	2.87	113	4.45	153	6.02	193	7.60	233	9.17	273	10.74	313	12.32
C	48	1.89	48	1.89	48	1.89	48	1.89	48	1.89	48	1.89	48	1.89	40	1.57	40	1.57	40	1.57	40	1.57	40	1.57	40	1.57	40	1.57
D	86.5	3.41	86.5	3.41	86.5	3.41	86.5	3.41	86.5	3.41	86.5	3.41	86.5	3.41	58.5	2.3	58.5	2.3	58.5	2.3	58.5	2.3	58.5	2.3	58.5	2.3	58.5	2.3
E	79	3.11	79	3.11	79	3.11	79	3.11	79	3.11	79	3.11	79	3.11	45	1.77	45	1.77	45	1.77	45	1.77	45	1.77	45	1.77	45	1.77
F	40	1.57	40	1.57	40	1.57	40	1.57	40	1.57	40	1.57	40	1.57	30	1.18	30	1.18	30	1.18	30	1.18	30	1.18	30	1.18	30	1.18

Type RC		RC Available sections from 1 to 4														Product	Code	
 CABLE CONTROLLER																	WIMB2	RC-3
																	WIMB3	RC-3
																	WIMB4	RC-3
																	WIMB5	RC-5
																	MSB3	RC-3
																	MSB5	RC-5
																	WSN3	RC-3
																	WSN4	RC-5
																WSN6	RC-5	
																WSN8	RC-5	

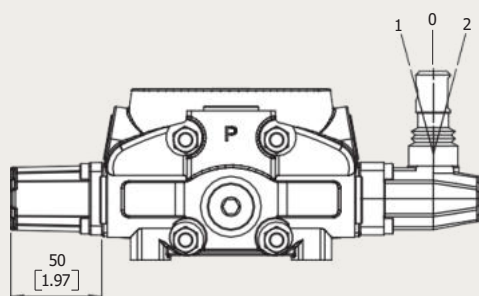
TYPE	RC5/1		RC5/2		RC5/3		RC5/4		RC3/1		RC3/2		RC3/3		RC3/4	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
A	38	1.50	85	3.35	130	5.12	175	6.89	33.5	1.32	74	2.91	112	4.41	150	5.91
B	52	2.04	97	3.82	142	5.59	187	7.36	45	1.77	86	3.39	124	4.88	162	6.38
C	110.5	4.35	110.5	4.35	110.5	4.35	110.5	4.35	78.5	3.09	78.5	3.09	78.5	3.09	78.5	3.09
D	40	1.57	40	1.57	40	1.57	40	1.57	30	1.18	30	1.18	30	1.18	30	1.18
E	79	3.11	79	3.11	79	3.11	79	3.11	45	1.77	45	1.77	45	1.77	45	1.77
F	71	2.80	71	2.80	71	2.80	71	2.80	56	2.21	56	2.21	56	2.21	56	2.21



WSN-4 B Side

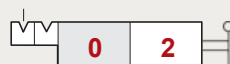
Sectional Directional Control Valves

Type 6



6-1 Kit:

DETENT IN POS. 1-0-2, WITHOUT SPRING CENTERED



6-2 Kit:

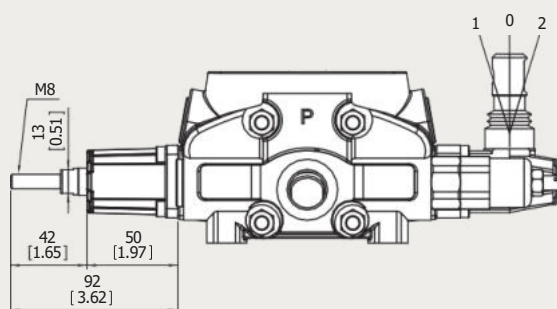
2 POSITIONS, DETENT IN POS. 0-2, WITHOUT SPRING CENTERED



6-3 Kit:

2 POSITIONS, DETENT IN POS. 1-0, WITHOUT SPRING CENTERED

Type 8D2



8D2 Kit:

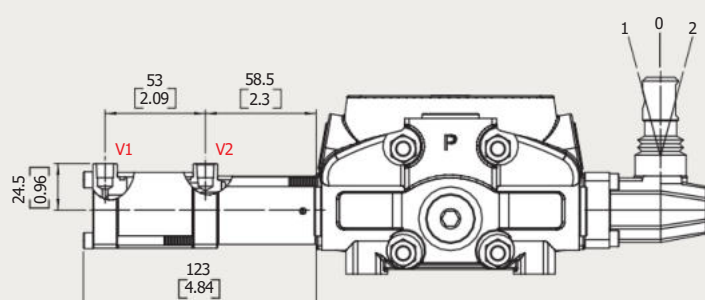
WITH SPRING RETURN TO NEUTRAL POSITION AND PIN WITH M8 MALE THREAD FOR DUAL CONTROL

WSN-4 B Side

Sectional Directional Control Valves

Type 8P

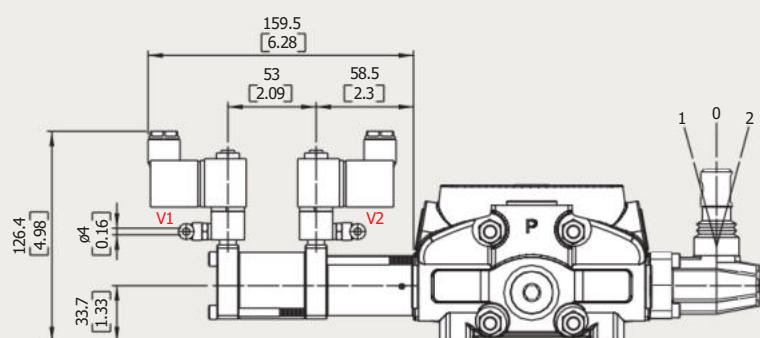
V1 & V2 : NPT 1/8 - 27



Pilot pressure : FROM 7 TO 10 BAR / 101 TO 145 PSI

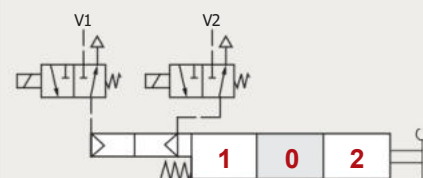


Type 8EP3



Solenoid operating features :

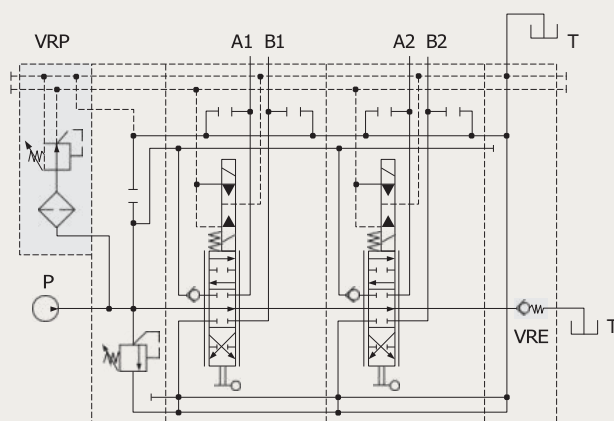
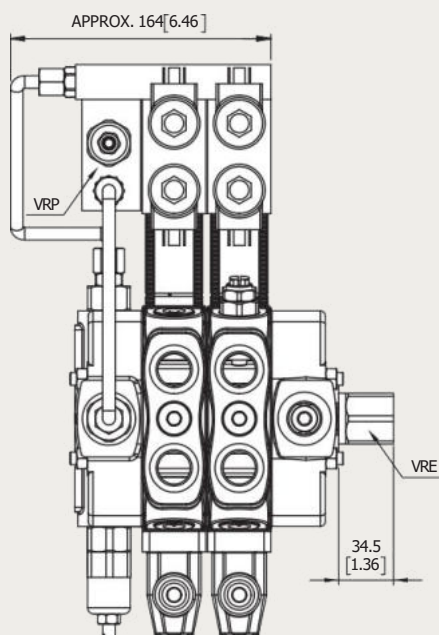
NOMINAL VOLTAGE: 24 VDC
NOMINAL VOLTAGE TOLERANCE: $\pm 10\%$
POWER RATING: 5W



WSN-4 B Side

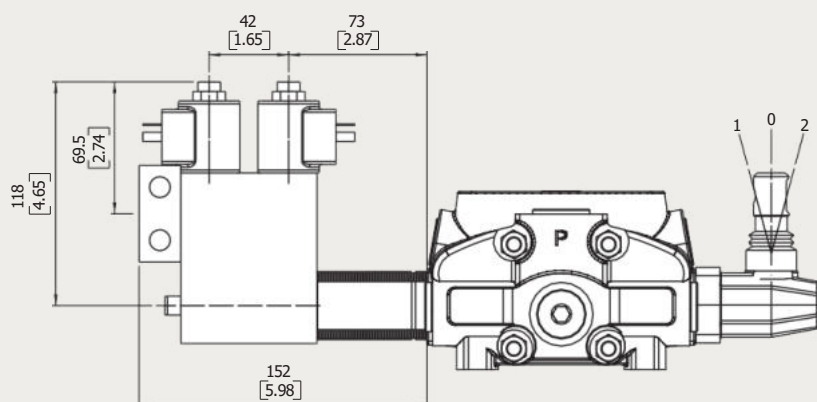
Sectional Directional Control Valves

Type 8ED3



VRP valve operating features :

OUTLET PRESSURE: 25 BAR / 363 PSI
 MAX. FLOW: 8 L/MIN / 2.1 US GPM
 FLTERING: 80 μ

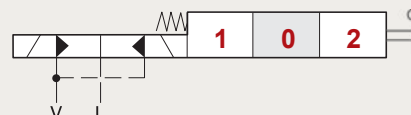


Operating features :

PILOT PRESSURE: • MIN. 10 BAR / 145 PSI
 • MAX. 50 BAR / 725 PSI
 MAX. BACKPRESSURE ON DRAIN L: 25 BAR / 360 PSI

Solenoid operating features :

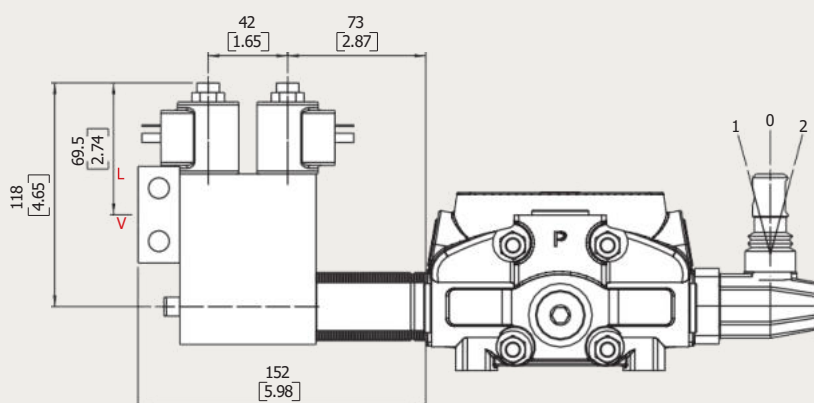
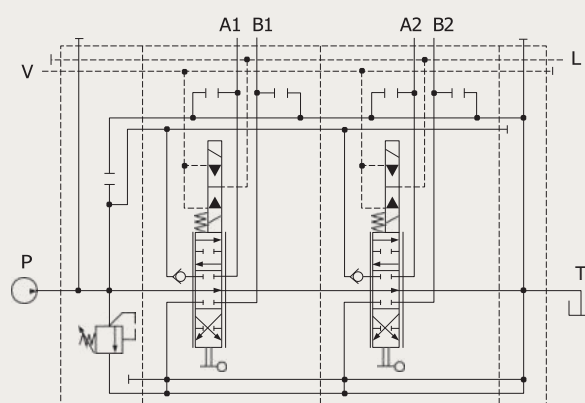
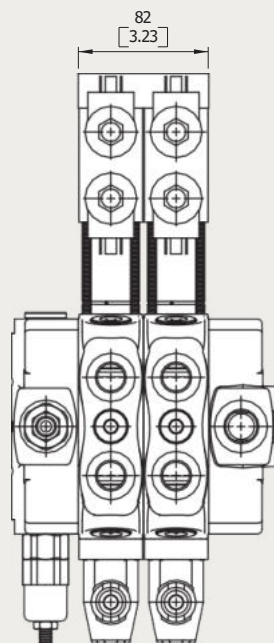
NOMINAL VOLTAGE: 12 VDC / 24 VDC
 POWER RATING: 21 W
 DUTY CYCLE: 100 %



WSN-4 B Side

Sectional Directional Control Valves

Type 8ER3

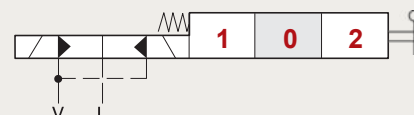


Operating features :

PILOT PRESSURE: • MIN. 10 BAR / 145 PSI
• MAX. 50 BAR / 725 PSI
MAX. BACKPRESSURE ON DRAIN L: 25 BAR / 360 PSI

Solenoid operating features :

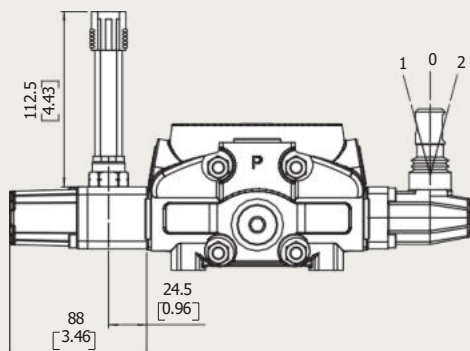
NOMINAL VOLTAGE: 12VDC / 24 VDC
POWER RATING: 21 W
DUTY CYCLE: 100 %



WSN-4 B Side

Sectional Directional Control Valves

Type 8MG



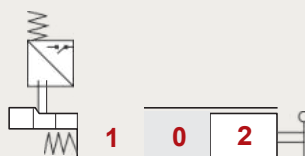
MICROSWITCH

Operating features :

MECHANICAL LITE: • 5X10⁵ OPERATIONS

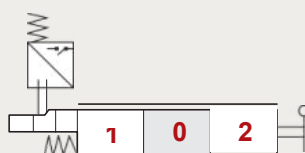
ELECTRICAL LITE (RESISTIVE LOAD):

- 10⁵ OPERATIONS - 7A / 13.5 VDC
- 5x10⁴ OPERATIONS - 10A / 12 VDC
- 5x10⁴ OPERATIONS - 3A / 28 VDC



8MG1 Kit:

MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 1



8MG2 Kit:

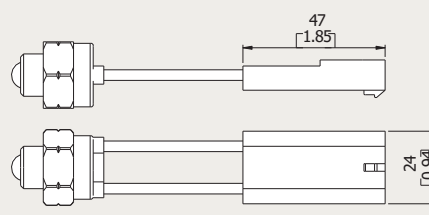
MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 2



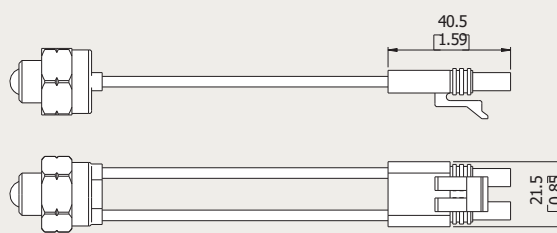
8MG3 Kit:

MICROSWITCH WITH MALE/FEMALE CONNECTOR, OPERATED IN POS. 1 AND POS. 2

With NO contact (female connector with male end)



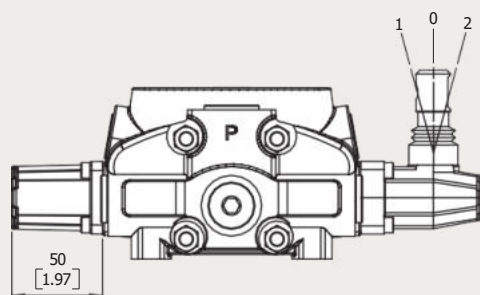
With NC contact (male connector with female end)



WSN-4 B Side

Sectional Directional Control Valves

Type 8



8 Kit:

SPRING RETURN TO NEUTRAL POSITION



8-1 Kit:

SPRING RETURN TO NEUTRAL POSITION.
(2 POSITIONS)

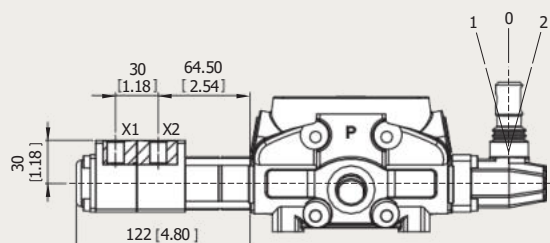


8-2 Kit:

SPRING RETURN TO NEUTRAL POSITION.
(2 POSITIONS)

Type 8IJ

X1 & X2 : BSP G1/4



Operating features :

- PILOT PRESSURE:
- MAX. 315 BAR / 4600 PSI
 - MIN. 50 BAR / 725 PSI



8IJ-1 Kit:

RETURN IN NEUTRAL POSITION FROM POSITION 1.



8IJ-2 Kit:

RETURN IN NEUTRAL POSITION FROM POSITION 2.



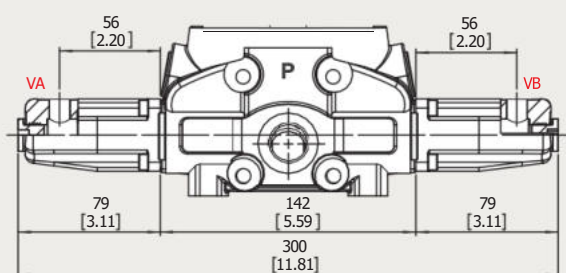
8IJ-3 Kit:

RETURN IN NEUTRAL POSITION FROM POSITION 1 AND 2.

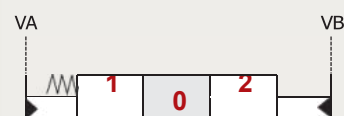
WSN-4 B Side

Sectional Directional Control Valves

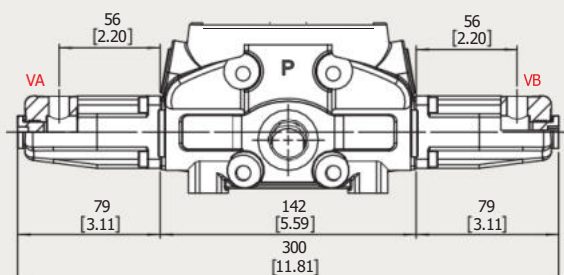
Type 8IM



Pilot pressure :
MAX. 50 BAR / 730 PSI



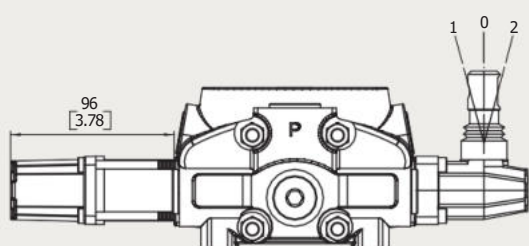
Type 8IMM



Pilot pressure :
MAX. 50 BAR / 730 PSI



Type 9



9-1 Kit:
DETENT IN POS. 1, 2 WITH SPRING
CENTERED



9-2 Kit:
DETENT IN POS. 2 WITH SPRING
CENTERED

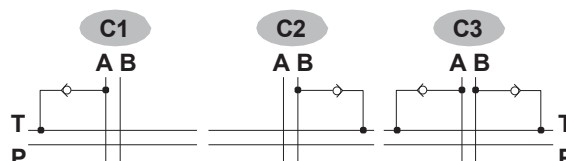
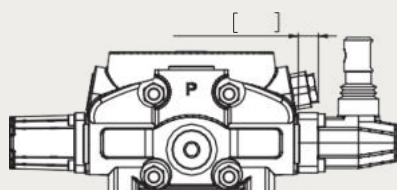


9-3 Kit:
DETENT IN POS. 1 WITH SPRING
CENTERED

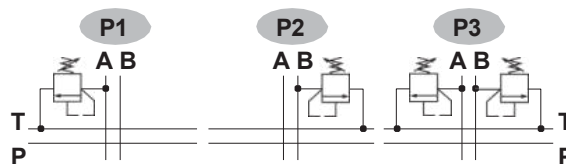
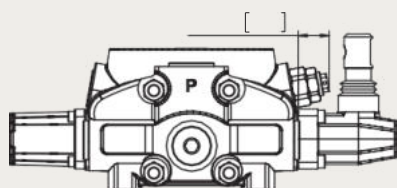
WSN-4 Port Relief

Sectional Directional Control Valves

TYPE C

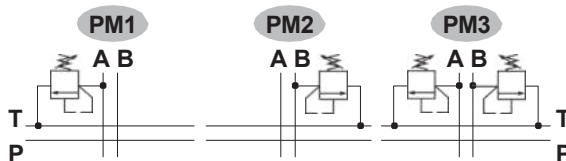
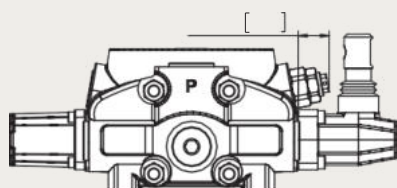


TYPE P



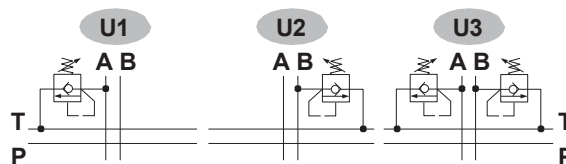
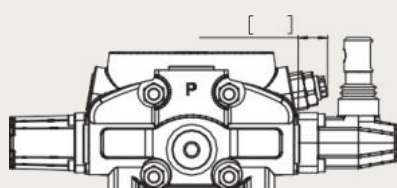
G2: 63-125 bar G3: 100-250 bar G4: 200-315 bar

TYPE PM



G2: 63-125 bar

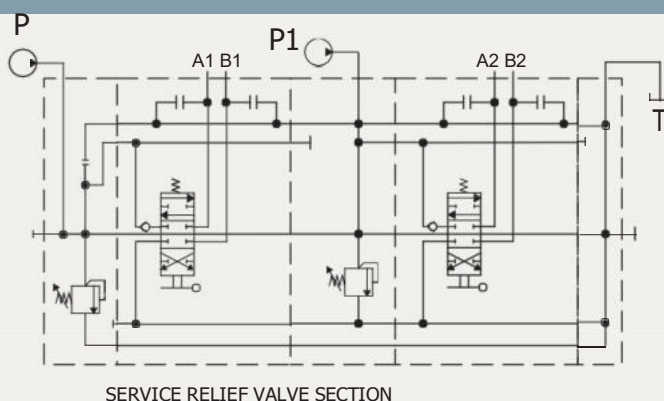
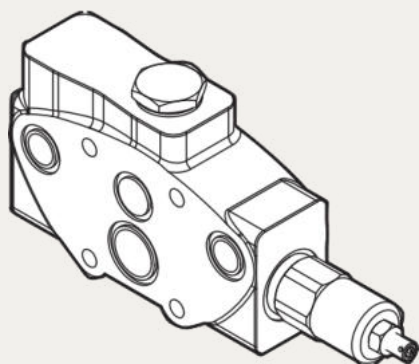
TYPE U



G2: 63-125 bar G3: 100-250 bar G4: 200-315 bar

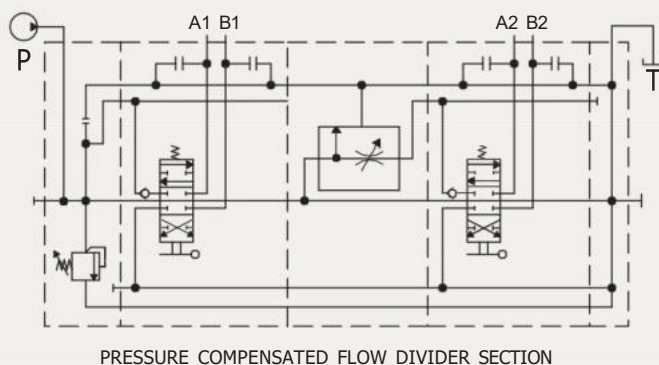
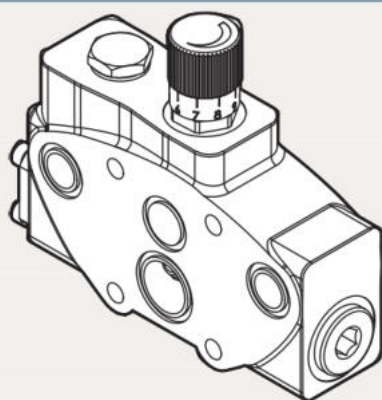
WSN-4 Intermediate Block Valve For Sectional Type Sectional Directional Control Valves

Type EGI

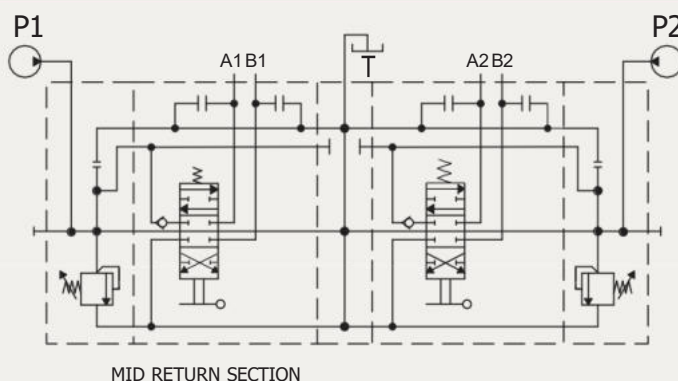
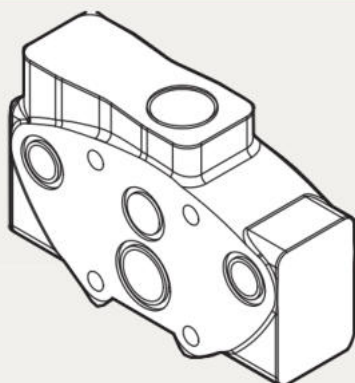


- Pressure range 02 : 40~80 bar 03 : 63~200 bar 04 : 160~315 bar
- Pilot operated pressure range X : 25~315 bar

Type EPCF



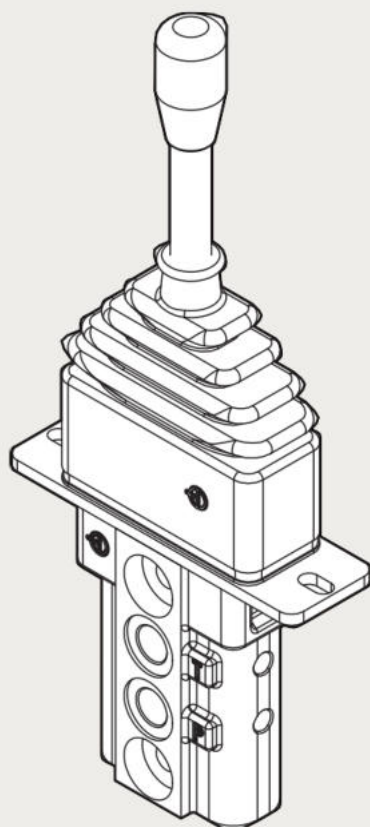
Type ECS



WSN-4 Accessories

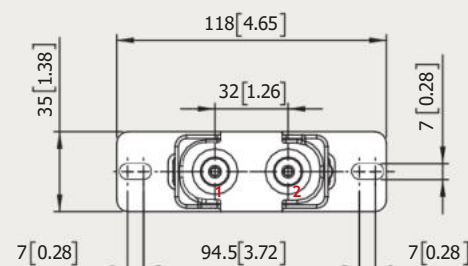
Sectional Directional Control Valves

Type JHP-1

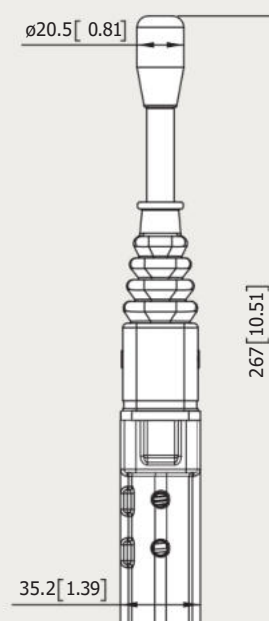
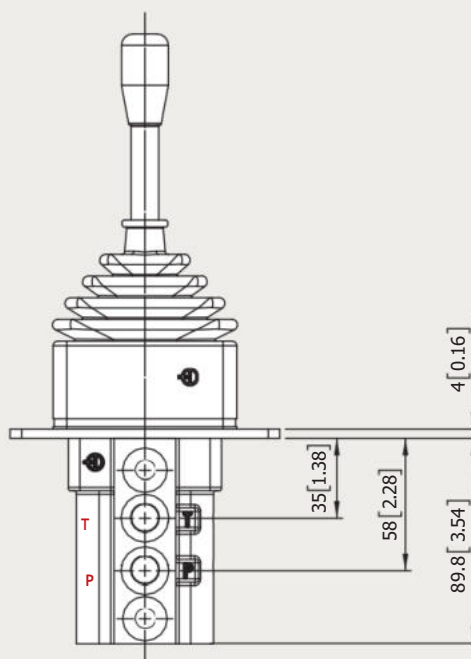
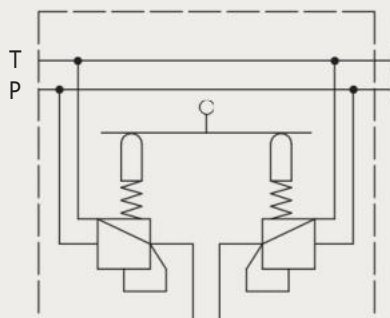


Specifications:

- This data sheet shows technical spec. with mineral oil of 46 mm²/s (cSt) viscosity at 40°C (104°F)
- Flow : 5 ~ 20 LPM
- Feeding pressure : 30 ~ 100 bar
- Max. backpressure : 3 bar
- Internal leakage at 30 bar : 10 ~ 18 cm³/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80°C
- AWIMBient temperature : - 40 ~ 60°C



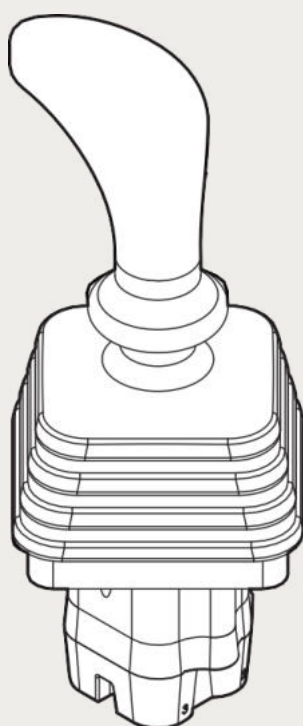
HYDRAULIC SCHEME:



WSN-4 Accessories

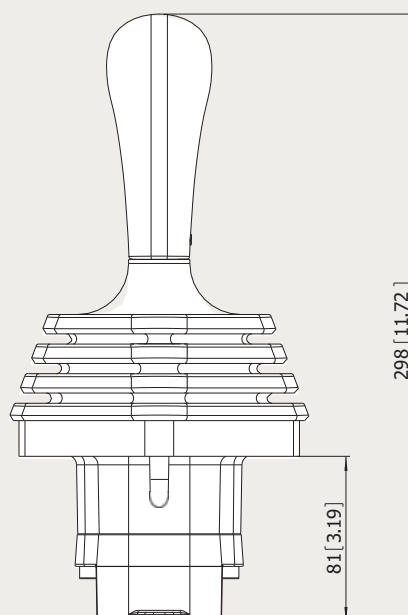
Sectional Directional Control Valves

Type JHP-2

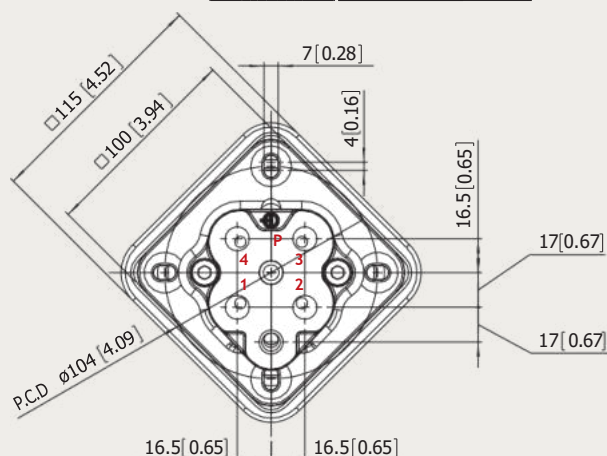
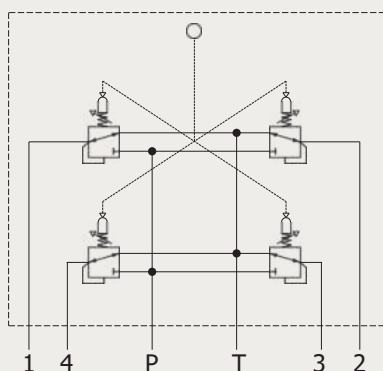


Specifications:

- This data sheet shows technical spec. with mineral oil of 46 mm²/s (cSt) viscosity at 40°C (104°F)
- Flow : 5 ~ 20 LPM
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- Internal leakage at 30 bar : 10 ~ 18 cm³/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80°C
- AWIMBient temperature : - 40 ~ 60°C



HYDRAULIC SCHEME:



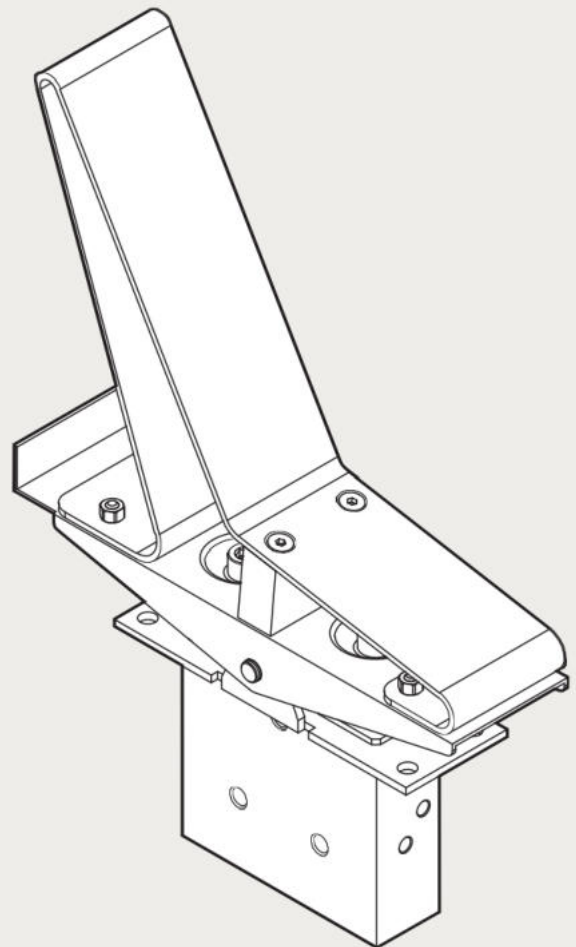
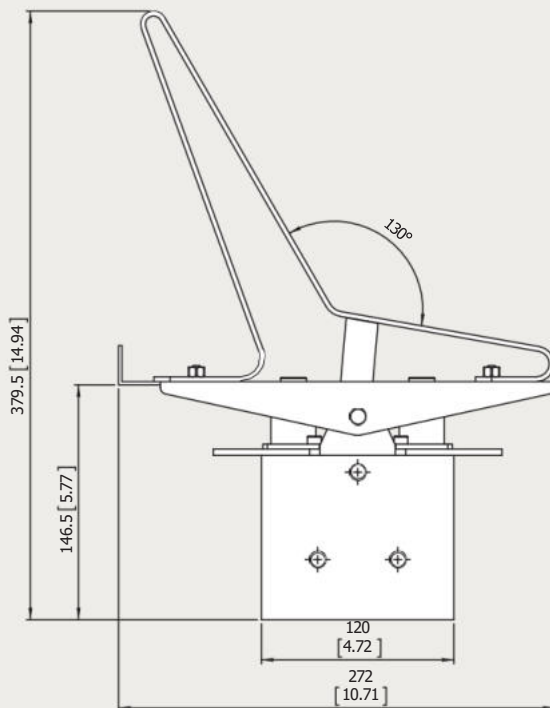
WSN-4 Accessories

Sectional Directional Control Valves

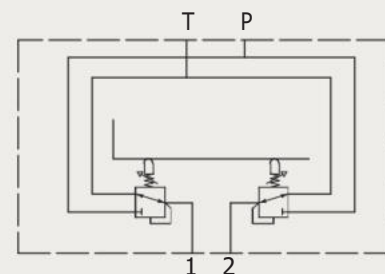
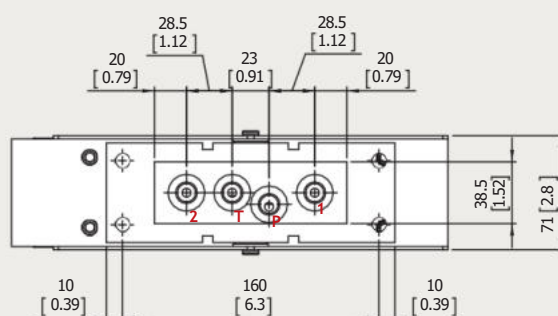
Type PHP-1

Specifications:

- This data sheet shows technical spec. with mineral oil of 46 mm²/s (cSt) viscosity at 40°C (104°F)
- Flow : 5 ~ 20 LPM
- Feeding pressure : 30 ~ 100 bar
- Max. backpressure : 3 bar
- Internal leakage at 30 bar : 10 ~ 18 cm³/min
- Fluid : mineral oil
- Fluid temperature : - 10 ~ 80°C
- AWIMBient temperature : - 40 ~ 60°C



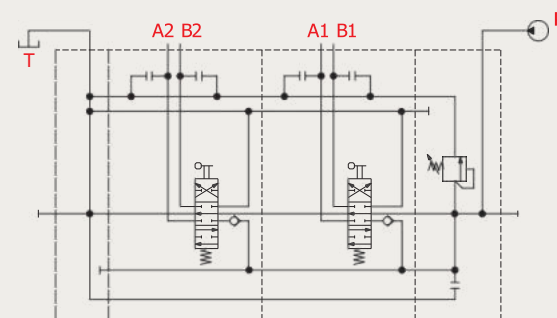
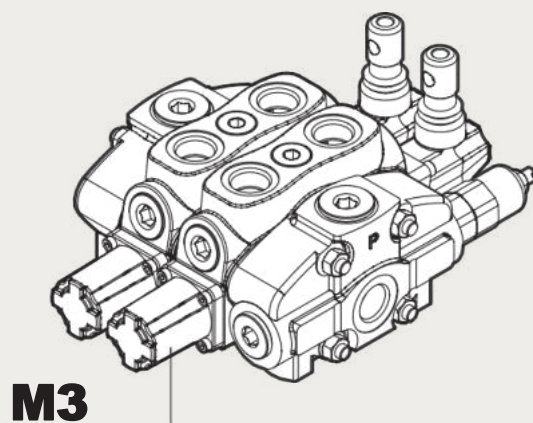
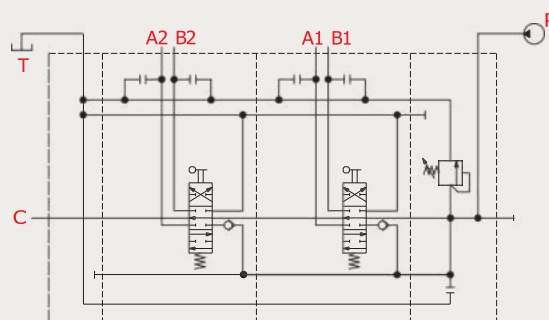
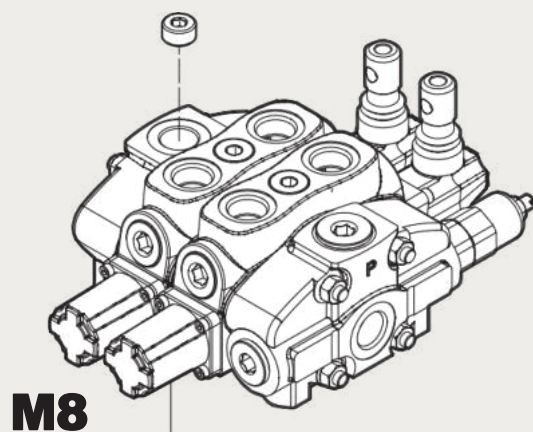
HYDRAULIC SCHEME:



WSN-4 Outlet

Sectional Directional Control Valves

Power Beyond Conversion plug
(Closed center plug)





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