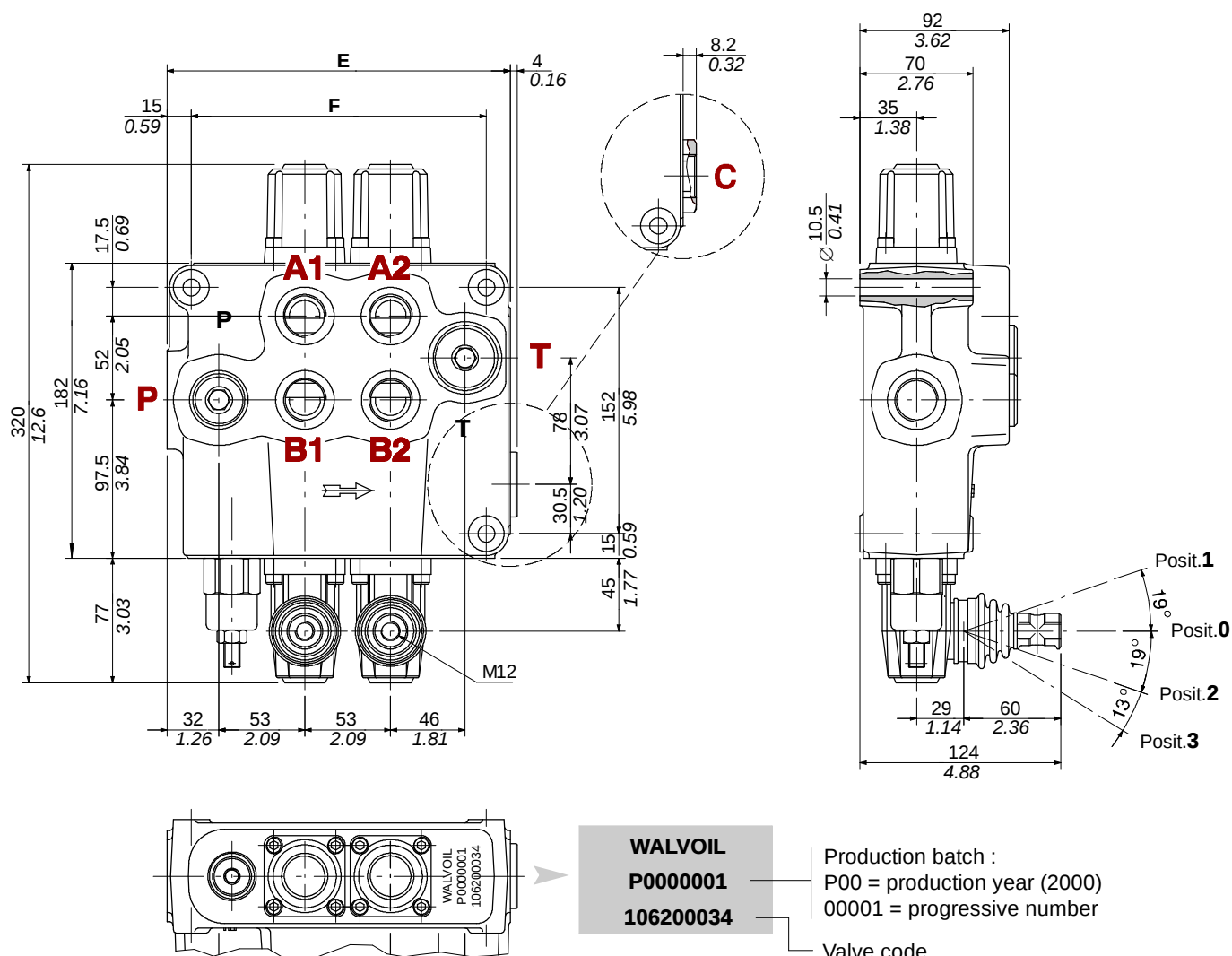


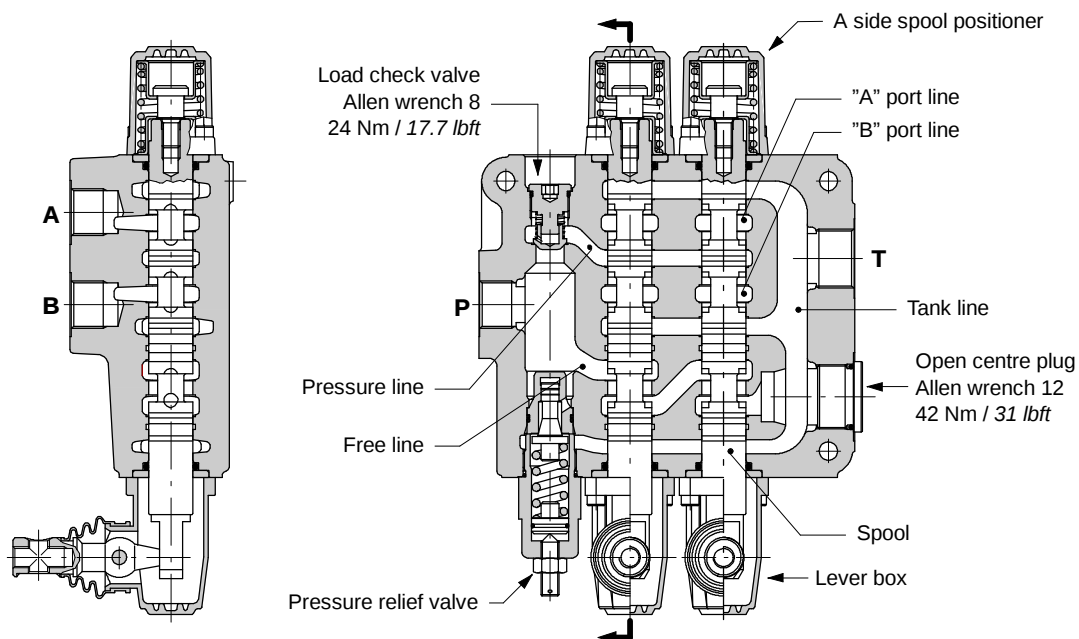


TYPE	E		F		Weight	
	mm	in	mm	in	kg	lb
SD18/1-P	159	6.26	129	5.08	13.2	29.1
SD18/2-P	212	8.35	182	7.17	18.6	41
SD18/3-P	265	10.4	235	9.25	23.5	51.8

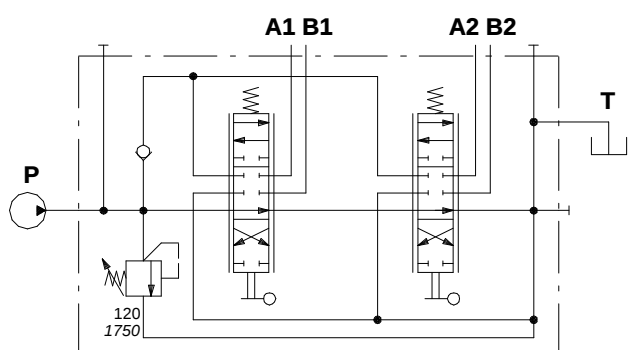
TYPE	E		F		Weight	
	mm	in	mm	in	kg	lb
SD18/4-P	318	12.5	288	11.3	28.8	63.5
SD18/5-P	371	14.6	341	13.4	34.1	75.2
SD18/6-P	424	16.7	394	15.5	39.4	86.9

Standard threads

PORT	BSP (ISO 228/1)	UN-UNF (ISO 11926-1)
Inlet P and carry-over C	G 3/4	1 5/16-12 UN-2B (SAE 16)
A and B ports	G 3/4	1 1/16-12 UN-2B (SAE 12)
Outlet T	G 1	1 5/16-12 UN-2B (SAE 16)
PILOT PORTS		
Hydraulic	G 1/4	9/16-18 UNF-2B (SAE 6)
Pneumatic	NPTF 1/8-27	NPTF 1/8-27

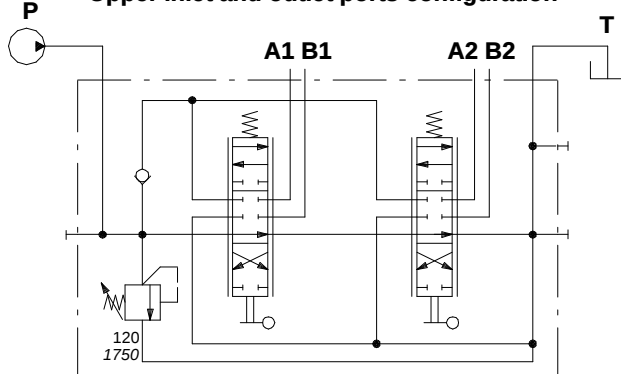


Standard configuration



Ex.: SD18/2-P(KG3-120)/18L/18L/AET

Upper inlet and outlet ports configuration



Ex.: SD18/2-P(KG3-120)/18L/18L/AET-PSA

SD18

Ordering codes

Pressure relief valve setting in bar ← 1st section following section

Ex.: SD18/ **2 - P** (**KG3 - 120**) / **1 8 L** / **1C 8IM . P3(G3 - 120)** / **AET - PSA ***

1. 2. 3. 4. 5. 6. 7. 8. 9.

→ Port relief valve setting in bar

1. Body kits *

TYPE CODE DESCRIPTION

Without service port valves prearrangement

1-P 5KC1713000 1 section

2-P 5KC1723000 2 sections

3-P 5KC1743000 3 sections

4-P 5KC1763000 4 sections

5-P 5KC1783000 5 sections

6-P 5KC1803000 6 sections

Include body, seals, rings and load check valve.

2. Inlet relief options

page 10

TYPE CODE DESCRIPTION

VMD20/1 direct pressure relief valve type K (standard)

(KG2-80) 5KIT120112 Range 25 to 80 bar / 360 to 1150 psi
standard setting 80 bar / 1150 psi

(KG3-120) 5KIT120113 Range 63 to 200 bar / 900 to 2900 psi
standard setting 120 bar / 1750 psi

(KG4-220) 5KIT120114 Range 160 to 250 bar / 2300 to 3600 psi
standard setting 220 bar / 3200 psi

VMP20/1 pilot operated pressure relief valve type X

(XG-120) X007211120 Range 63 to 250 bar / 900 to 3600 psi
standard setting 120 bar / 1750 psi

Standard setting is referred to 10 l/min flow.

SV 3XTAP535410 Relief valve blanking plug

3. Spools

page 12

TYPE CODE CIRCUIT DESCRIPTION

1 3CU1610130 Double acting, 3 positions, with A and B closed in neutral position

2 3CU1625130 Double acting, 3 positions, with A and B open to tank in neutral position

3 3CU1631130 Single acting on A, 3 positions, B plugged requires G3/4 plug (see part I)

4 3CU1635130 Single acting on B, 3 positions, A plugged requires G3/4 plug (see part I)

J Spools for 8IM hydraulic control

1C 3CU1610400 As type 1

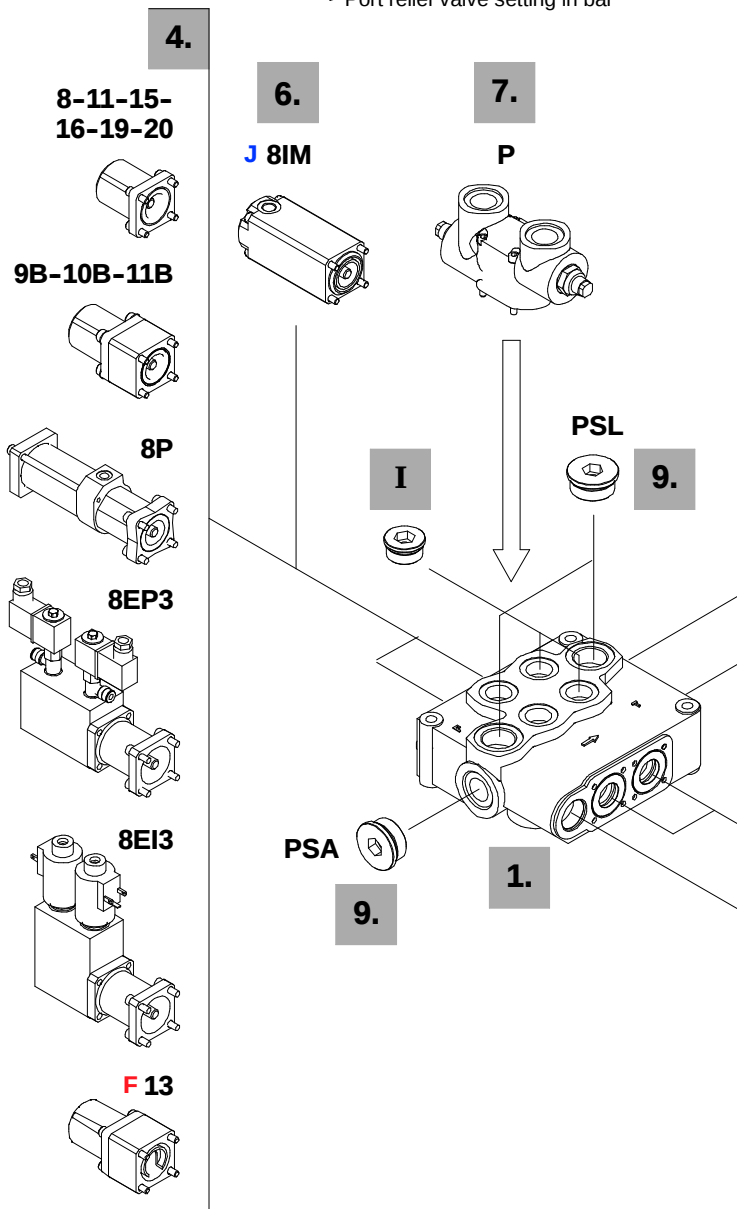
2C 3CU1625400 As type 2

3C 3CU1631400 As type 3

Special spools: need special body kit

F 5 3CU1641130 Double acting, 4 positions, with A and B to tank in 4th position (float); for type 13 spool positioner

8F 3CU1661100 Double acting, 3 positions, with regenerative in position 2



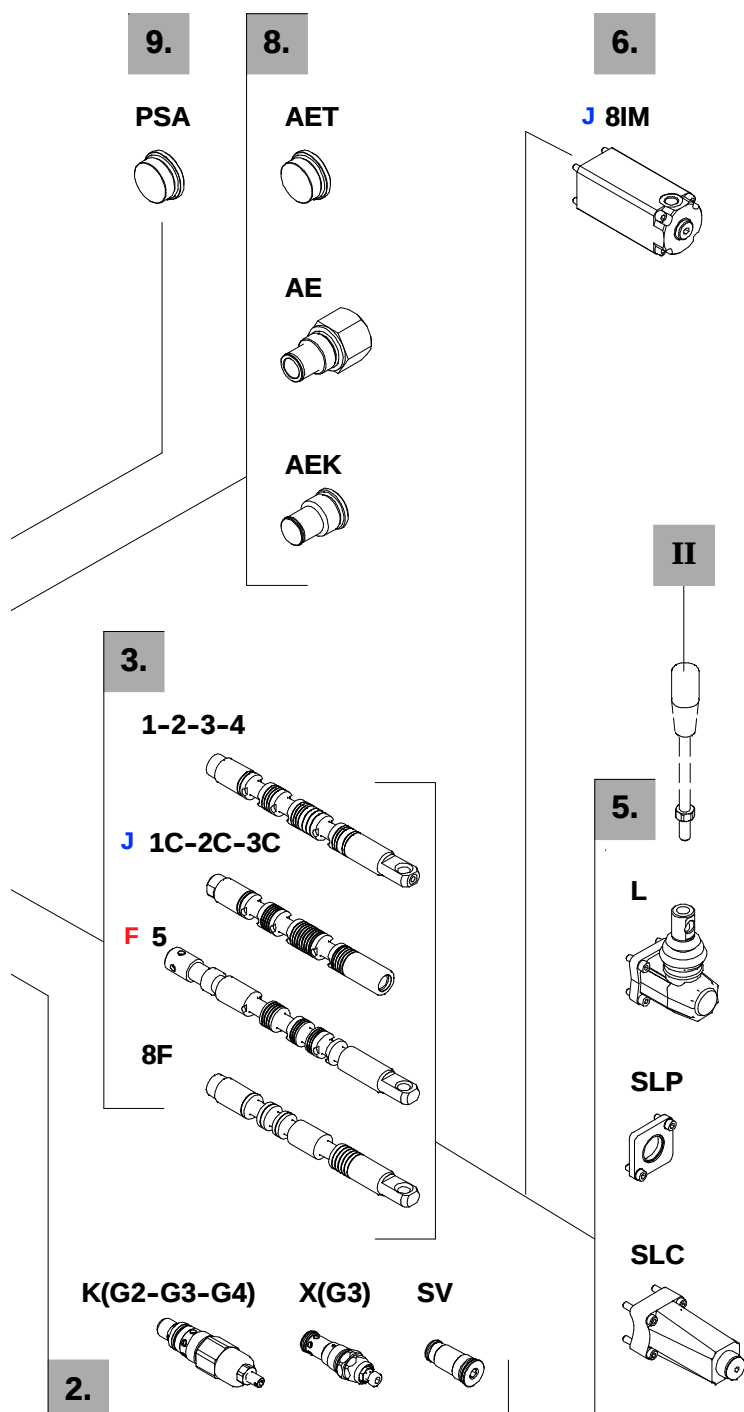
4. "A" side spool positioners

page 16

TYPE	CODE	DESCRIPTION
8	5V08120000	With spring return in neutral position
9B	5V09120000	With detent in position 1 and spring return neutral position
10B	5V09120000	With detent in position 2 and spring return neutral position
11B	5V11220000	With detent in positions 1 and 2, spring return neutral position

..... to be continued on next page

NOTE (*) - Items are referred to **BSP** thread.



NOTE **J** **F** - Spools and positioners with the same symbol must be assembled together.

4. "A" side spool positioners page 16

TYPE	CODE	DESCRIPTION
11	5V11120000	With detent in positions 1, 0 and 2
15	5V15120000	With detent in positions 1 and 0
16	5V16120000	With detent in positions 2 and 0
19	5V19120000	With spring return in position 0 from 1
20	5V19120000	With spring return in position 0 from 2
8P	5V08120701	ON/OFF pneumatic kit
8EP3	5V08120735	12 VDC ON/OFF electro-pneumatic kit
	5V08120736	24 VDC ON/OFF electro-pneumatic kit
8EI3	5V08120350	12 VDC ON/OFF electro-hydraulic kit
	5V08120351	24 VDC ON/OFF electro-hydraulic kit
<u>Special positioner</u>		
F 13	5V13020000	With detent in position 3 and spring return neutral position, for spool type 5

5. "B" side spool control kits page 23

TYPE	CODE	DESCRIPTION
L	5LEV120000	Standard lever
SLP	5COP120000	Without lever, with dust-proof plate
SLC	5COP220000	Without lever, with cap

6. Hydraulic spool control kit * page 24

TYPE	CODE	DESCRIPTION
Need special body kit		
J 8IM	5IDR220000	Proportional hydraulic operated with spring return in position 0, requires spools type C

7. Port relief options * page 26

TYPE	CODE	DESCRIPTION
<u>Kit with anti-shock: need special body kit</u>		
Range from 80 to 200 bar / 1150 to 2900 psi		
P1(G3-100)	606001000	Mounted on port A
P2(G3-100)	606001000	Mounted on port B
P3(G3-100)	606001100	Mounted on ports A and B
Standard setting is 100 bar - 1450 psi to 10 l/min flow.		

8. Outlet port conversion * page 28

TYPE	CODE	DESCRIPTION
AET	3XTAP640250	Open centre plug
AE	3XGIU541600	G3/4 carry-over sleeve
AEK	3XTAP540560	Closed centre plug

9. Inlet and outlet selection * page 6

TYPE	CODE	DESCRIPTION
PSL	3XTAP732200	Nr.1 G3/4 plug for side inlet
	3XTAP740210	Nr.1 G1 plug for side outlet
PSA	3XTAP732200	Nr.1 G3/4 plug for upper inlet
	3XTAP740210	Nr.1 G1 plug for upper outlet

I Ports plug *

TYPE	CODE	DESCRIPTION
G3/4	3XTAP732200	For single acting (spools type 3 and 4)

II Optional handlever

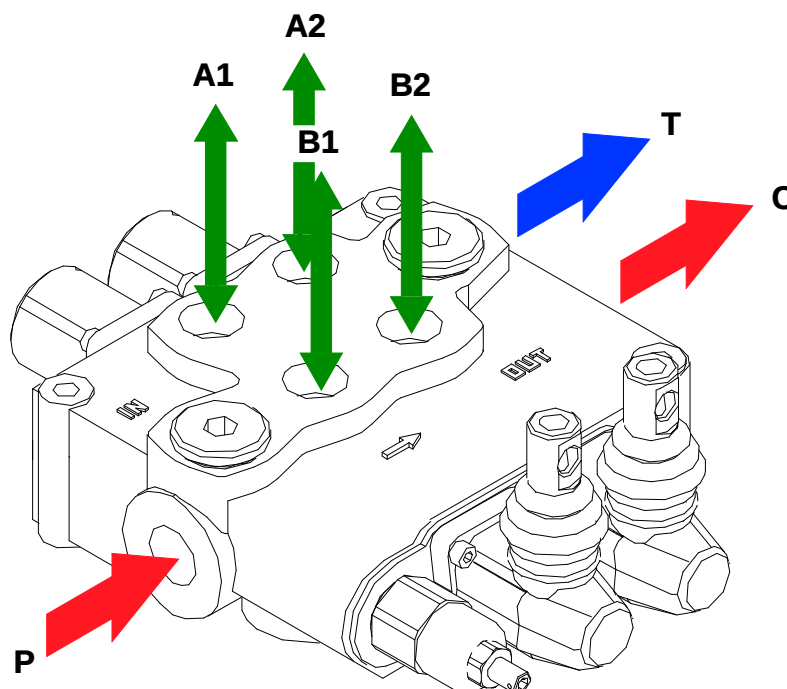
TYPE	CODE	DESCRIPTION
AL01/M12x250	170013025	For L lever box L= 250 mm / 9.84 in

Installation and maintenance

The SD18 valve is assembled and tested as per the technical specification of this catalogue.

Before the final installation on your equipment, follow the below recommendations:

- the valve can be assembled in any position, in order to prevent body deformation and spool sticking mount the product on a flat surface;
- in order to prevent the possibility of water entering the lever box and spool control kit, do not use high pressure wash down directly on the valve;
- prior to painting, ensure plastic port plugs are tightly in place.



Carry-over configuration

Fitting tightening torque - Nm / lbft

THREADS TYPE	P and C ports	A and B ports	T port
BSP (ISO 228/1)	G 3/4	G 3/4	G 1
With O-Ring seal	90 / 66.4	90 / 66.4	100 / 73.7
With copper washer	90 / 66.4	90 / 66.4	90 / 66.4
With steel and rubber washer	70 / 51.6	70 / 51.6	100 / 73.7
UN-UNF (ISO 11926-1)	1 5/16-12 UN-2B (SAE 16)	1 1/16-12 UN-2B (SAE 12)	1 5/16-12 UN-2B (SAE 16)
With O-Ring seal	150 / 110.6	95 / 70.1	150 / 110.6

NOTE - These torque are recommended. Assembly tightening torque depends on many factors, including lubrication, coating and surface finish. The manufacturer shall be consulted.