OP11 75 LPM

MONOBLOCK DIRECTIONAL CONTROL VALVE

NEW DEVELOPMENT OP11 UPGRADED TO 75 LPM WITH 3/4"UNO (STD) OR 1/2"BSPP PORTS (ON APPLICATION)

OP11 Monoblock Valve

Part No.	No of Spools	Nom Flow l/min	Max Pressure P,A,B	Max Pressure T	Ports (UNF)
0111*	1	75	315 bar	25bar	1/2" P, A, B+T_¾"
0112*	2				
0113*	3	60			
0104*	**4**	55			



***prices as per listings on page 15**

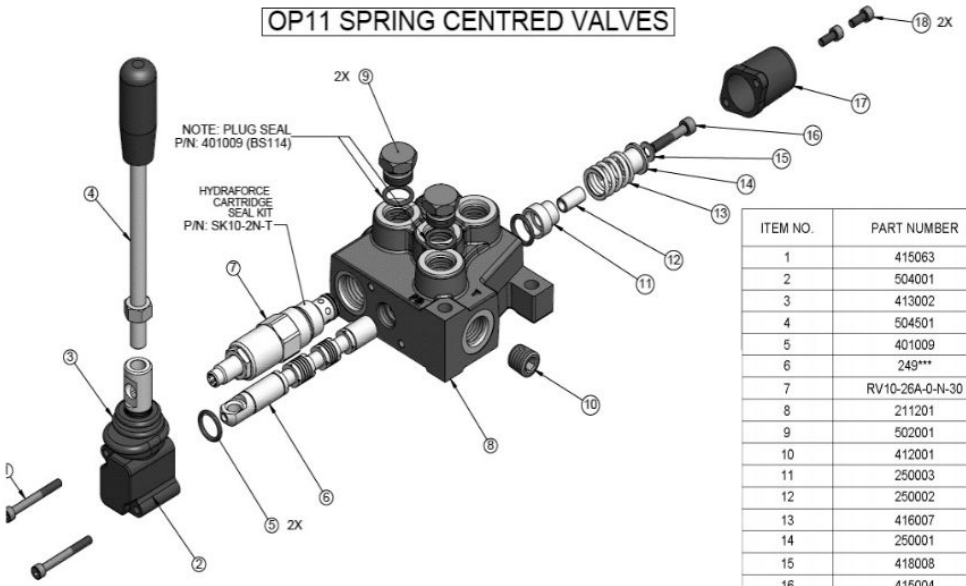
The OP11 Directional Valve provides a compact range of manually operated directional valves for medium flow applications. Like all Oilpath DCV's the handle assembly is fully enclosed to reduce the likelihood of corrosion affecting the handle mechanism. The handle bracket and spring end cover are made from glass filled nylon that has better impact and wear properties than aluminium. Each valve is supplied with a 3/8" bspt plug that can be easily inserted into a pre-tapped gallery to create Power Beyond (H.P.C.) and closed centre facility.

OPTIONS

- 2 and 3 position detent & spring centred detent
- Pneumatic spool actuation
- Closed circuit & power beyond
- Electric limit switch

Note 4 spool valves remain as OP10 designation

OP11 SPRING CENTRED VALVES



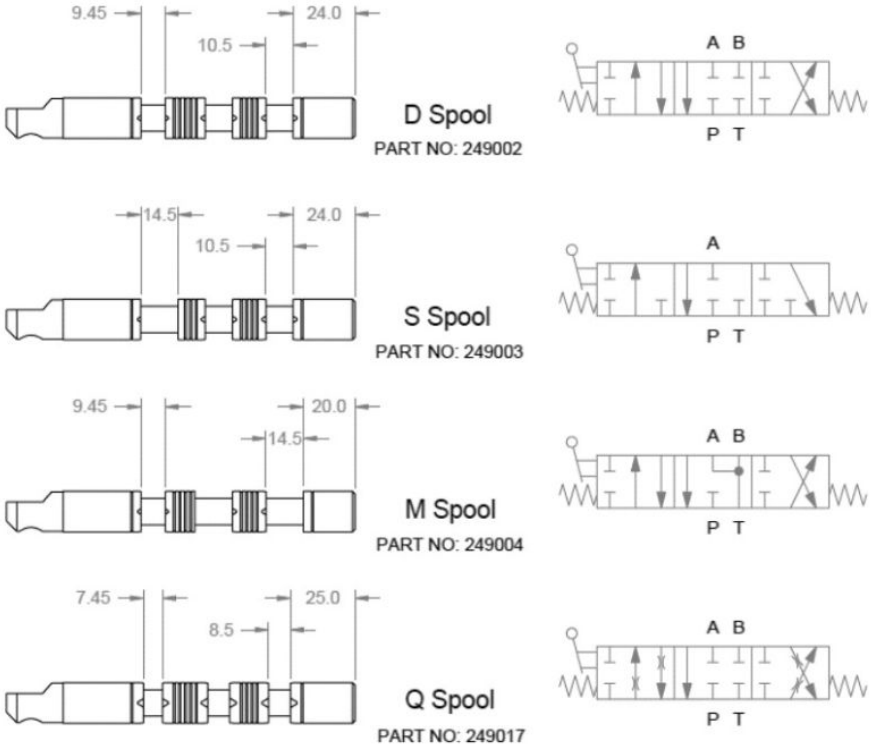
ITEM NO.	PART NUMBER	DESCRIPTION	SPRG CNTRD/QTY
1	415063	M5 x 45 SHCS	2
2	504001	OP10 LEVER BOX ASSEMBLY	1
3	413002	OP10 Lever Box Boot	1
4	504501	OP10 LEVER STEM ASSEMBLY	1
5	401009	N7 114 NITRILE O RING	2
6	249***	OP10 * Spool	1
7	RV10-26A-0-N-30	HYDRAFORCE CARTRIDGE	1
8	211201	OP11 01 3/4" UNF FIN. MACHINED	1
9	502001	3/4" UNF PLUG ASSEMBLY	2
10	412001	3/8" BSPT PRESSURE PLUG	1
11	250003	OP10 Long Spring Cup	1
12	250002	OP10 Spring Centering Bush	1
13	416007	OP S/C SPRING STD	1
14	250001	OP10 Short Spring Cup	1
15	418008	1/4" x 1/2" ZP Washer	1
16	415004	M6 x 30 SHCS	1
17	340001	OP10 Spring Cap	1
18	415005	M5 x 12 SHCS	2

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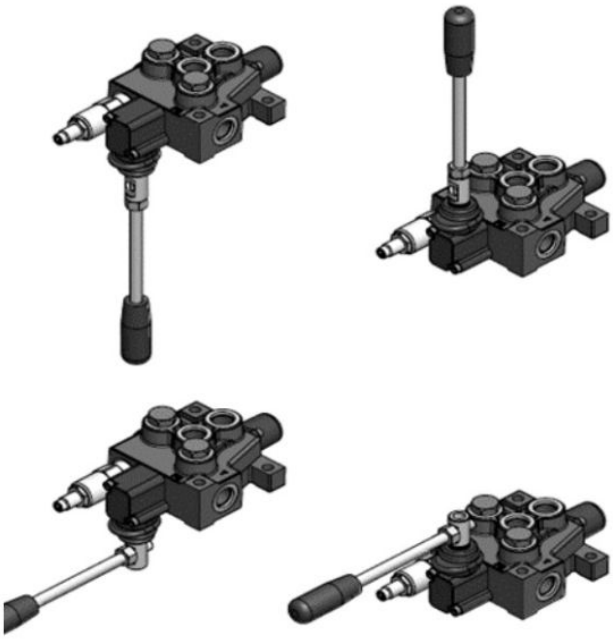
OP11 75 LPM

MONOBLOCK DIRECTIONAL CONTROL VALVE

NEW DEVELOPMENT OP11 UPGRADED TO 75 LPM WITH 3/4"UNO (STD) OR 1/2"BSPP PORTS (ON APPLICATION)



NOTE: ALTERNATE HANDLE ORIENTATION FOR OP11 VALVE

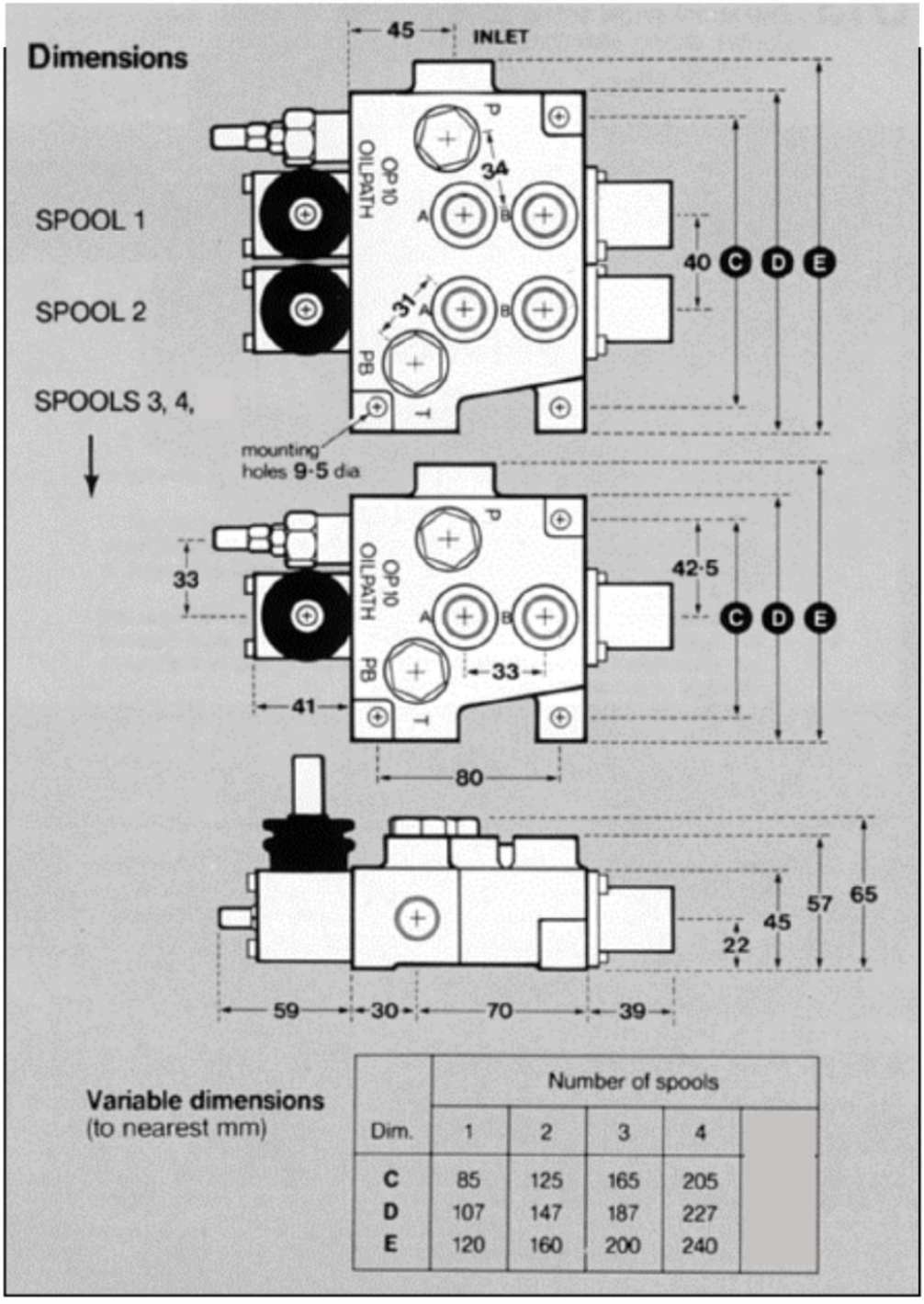


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OP11 75 LPM

MONOBLOCK DIRECTIONAL CONTROL VALVE

NEW DEVELOPMENT OP11 UPGRADED TO 75 LPM
WITH 3/4"UNO OR 1/2"BSPP PORTS



Variable dimensions
(to nearest mm)

Dim.	Number of spools			
	1	2	3	4
C	85	125	165	205
D	107	147	187	227
E	120	160	200	240

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NEW DEVELOPMENT OP11 UPGRADED TO 75 LPM WITH 3/4"UNO OR 1/2"BSPP PORTS

ORDERING INFORMATION

OP11 (OP10) valves can be ordered by quoting a number/letter group sequence as follows:
Valve series; Spool configuration; Relief setting; Options required

Valve Model	Spool Types		Relief Setting	Options	
OP11	D	Double Acting	Specify Relief Valve Pressure Setting 100 - 5000 psi HydraForce Relief Valves on OP11	PB	High pressure carry over. Plug supplied in package as standard
	Q	Double Acting low flow version		CC	Closed Centre
	S	Single Acting		NR	Relief valve not required
	M	Motor Spool	No Setting required with NR option	SCDA	Spring centred dented to port A
				SCDB	Spring centred dented to port B
				A	Air Control (OP118) supplied only with manual override
OP10 (4 spool only)			400 - 5000 psi Oilpath Relief valves on OP10-4	D	Three position detent
				E	Electric limit switch followed by numeral indicating spools

OP11	D	2000	PB	Single Double acting spool 2000psi relief high pressure carry over
OP11	DS	2500	D2	Double 1st spool double acting spring centred 2nd spool single acting detented
OP11	DDD	1500	D1A23	Triple all double acting spools 1500 psi relief detent on 1st spool pneumatically operated 2nd & 3rd spools
OP10	DDDM	3500	SCDB23	OP10 four spool with double acting spools on 1,2,3, motor spool on 4 3500 psi relief spring centred to B on 2nd & 3rd spool

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OP10 & OP11 Directional Control Valve

Part Number	Description
0111xxxx	Single Spool Valve
0112xxxx	Two Spool Valve
0113xxxx	Three Spool Valve
0104xxxx	Four Spool Valve

OP10 & OP11 Options (on new builds)

OPTIONS	Part Number	Description
~~D1~~	507020	Detent per spool, (three pos.) factory fitted # indicates pos.
CC	511048	OP10 Pressure Relief Blanking Plug kit, for closed centre
	511014	OP11 Pressure Relief Blanking Plug kit, for closed centre
E1	503003	Electric Limit Switch for single spool valve, factory fitted Note: Micro switch is not included in price
E12	503004	Electric Limit Switch for double spool valve, factory fitted Note: Micro switch is not included in price
E123	503005	Electric Limit Switch for triple spool valve, factory fitted Note: Micro switch is not included in price
E1234	503006	Electric Limit Switch for four spool valve, factory fitted Note: Micro switch is not included in price
	503010	Micro Switch for above kits, (one per valve) standard micro switch. This switch has a weather-proof rating to IP67
13A	248013	Optional micro switch sleeve for S/A spools with code E, kit only (add on spool)
Q		Optional D/A spool with metering for low flow DC power units
SCDA	509018	Spring Centred Detent with det. acting on A port is pressurised
SCDB	509012	Spring Centred Detent with det. acting on B port is pressurised
S/O	509010	Spring offset to “B” (No centre position)
A1		OP118 Air Kit with handle control
MU		Valve prepared for a Marine environment

Note: 4 spool valves remain as OP10 designation with Oilpath integrated lift drop check and relief valve.

OP11 valves contain a separate lift drop check and a HydraForce Pressure Relief Valve

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OP11 75 LPM

MONOBLOCK DIRECTIONAL CONTROL VALVE

NEW DEVELOPMENT OP11 UPGRADED TO 75 LPM
WITH 3/4"(STD)-UNO OR ½"BSPP (ON APPLICATION)

OP10/11 SPARES	
RV50-26A-0-P-50	HydraForce Relief Valve up to 5000 psi
RV10-26A-0-N-30	HydraForce Relief Valve up to 3000 psi
512011	Seal Kit Single Spool
512015	Seal Kit Double Spool
512043	Seal Kit Triple Spool
512017	Seal Kit Four Spool
511048	CC OP10 Pressure Relief Blanking Plug kit, for closed centre
511014	OP11 Pressure Relief Blanking Plug kit, for closed centre
509018	SCDA spring Centred Detent with det. acting on A port is pressurised
509012	SCDB Spring Centred Detent with det. acting on B port is pressurised
509001	Spring Centring Kit to suit all spools, without spring cap
507020	D1 Detent per spool, (three pos.) kit, or factory fitted # indicates pos.
506081	OP118 Air Kit for OP11
505016	Relief Valve complete cartridge including lift drop check
504504	Handle Lever Stainless Steel 10mm diameter
504501	Handle Lever complete with nut and rubber knob
504027	Lever Box with shift leg & rubber boot but no handle
503010	Micro Switch, (one per valve) standard micro switch This switch has a weather-proof rating to IP67
412004	Power Beyond Plug

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503009	13A Optional micro switch sleeve for S/A spools with code E, kit only
503006	E1234 Electric Limit Switch for four spool valve kit Note: Micro switch is not included in price
503005	E123 Electric Limit Switch for triple spool valve kit
503004	E12 Electric Limit Switch for double spool valve kit
503003	E1 Electric Limit Switch for single spool valve, kit or factory fitted
416220	Rubber Boot Bottom Clips
416219	Rubber Boot Top Clips
416009	Relief Valve Main Spring Z (not required for HydraForce Cartridges)
416008	Relief Valve Main Spring X (not required for HydraForce Cartridges)
416005	Relief Valve Main Spring Y (not required for HydraForce Cartridges)
413002	Rubber Boot for lever box
340001	Spring Cap supplied without M5 cap screws
249017	Q Optional D/A spool with metering for low flow DC power units
249004	Motor Spool with no spring centring mechanism
249003	Single Acting Spool with no spring centring mechanism
249002	Double Acting Spool with no spring centring mechanism
SCDA	Detent when handle pulled in
SCDB	Detent when handle pushed in

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