



Directional Control Valves

Technical Information

Quick selection matrix

FEATURES AND RATINGS BY MODEL

Category	Rating / feature	MonoBlock										Modular		
		1530	1500	1617/ 27/37	1618/ 38	1025	1225	1421	1625/35	1612	1622/32	1125	1325	1681
Nominal flow	19 l/min [5 US gal/min]	X	X											
	38 l/min [10 US gal/min]			X	X				X			X		
	57 l/min [15 US gal/min]									X	X			X
	76 l/min [20 US gal/min]					X	X						X	
	95 l/min [25 US gal/min]													
	114 l/min [30 US gal/min]							X						
Nominal pressure	138 bar [2000 psi]	X												
	207 bar [3000 psi]		X	X	X	X	X	X	X	X	X	X	X	X
Circuit options	Parallel			X	X							X	X	X
	Series								X		X			
	Tandem	X	X			X	X	X		X				
	Priority											X	X	X
	Power beyond		X	X	X	X	X	X	X	X	X	X	X	X
	Closed center													
Spools	Distance between (mm [in])	N/A	N/A	28.7 [1.13]	28.7 [1.13]	N/A	35 [1.38]	N/A	28.7 [1.13]	N/A	41.4 [1.63]	35 [1.38]	38.1 [1.50]	35 [1.38]
	Maximum number	1	1	3	3	1	2	1	3	1	3	8	8	8
Spool action options	Spring center	X	X	X	X	X	X	X	X	X	X	X	X	X
	1 position detent	X	X	X	X	X	X	X	X	X	X	X	X	X
	2 position detent			X	X	X	X	X	X	X	X	X	X	X
	3 position detent			X	X	X	X	X	X	X	X	X	X	X
	Friction detent													
	Float detent			X	X	X	X		X	X	X		X	X
	Regenerative feel								X		X			X
	Spring offset			X	X	X	X	X	X	X	X	X	X	X
Spool options	3 pos. - 3 way			X	X	X	X	X	X	X	X	X	X	X
	3 pos. - 4 way	X	X	X	X	X	X	X	X	X	X	X	X	X
	4 pos. with float			X		X	X		X	X	X		X	X
	4 pos. regenerative								X		X			X
Spool diameter	12.70 mm [0.500 in]	X	X											
	15.88 mm [0.625 in]			X	X	X	X		X	X	X	X	X	X
	19.05 mm [0.75 in]													
	25.40 mm [1.000 in]							X						
Relief valve options	Ball and spring		X	X	X	X	X	X	X	X	X	X	X	X
	Direct acting poppet													
	Pilot operated			X	X	X	X		X	X	X	X	X	X
Work port neutral options	Closed to tank	X	X	X	X	X	X	X	X	X	X	X	X	X
	Open to tank	X	X	X	X	X	X	X	X	X	X	X	X	X
	Meter to tank			X								X	X	X



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Actuation options	Handle		X	X	X	X	X	X	X	X	X	X	X	X
	Mechanical joystick			X	X				X					X
	Exposed spool end	X	X	X	X	X	X	X	X	X	X	X	X	X
	Covered spool end											X		
	RHC											X		
	EHC on/off													
	Cable control													
	Hydraulic / pneumatic													
Dual spool ends														
Maximum work port leakage	<1 cm ³ /min [0.061 in ³ /min]				X									
	1 to 3 cm ³ /min [0.061 to 0.183 in ³ /min]	X												
	4 to 6 cm ³ /min [0.244 to 0.366 in ³ /min]		X											
	7 to 10 cm ³ /min [0.427 to 0.610 in ³ /min]							X	X	X	X			X
	11 to 13 cm ³ /min [0.71 to 0.793 in ³ /min]			X										
	14 to 16 cm ³ /min [0.854 to 0.976 in ³ /min]											X	X	
	16 to 24 cm ³ /min [0.976 to 1.456 in ³ /min]					X	X							
Additional features	Load check			X	X				X	X	X	X	X	X
	P.O. check				X							X	X	X
	Flow control													
	Meter in	X	X	X	X	X	X	X	X	X	X	X	X	X
	Meter out			X					X	X	X			
	Hydraulic kickout				X									
	Electric switch			X										X