

Service port valves (optional field)

DCV**/* IS * *** (***) ST** CS** D** **V**(***)** !W* Xn U* F*

Service port valves optional, is required a special monoblock body.
Omit for standard version (without valves, without prearranged for valve)

V** Service port valves (1)

**	Description	Drawing
VB1 (***) (2) (3)	Overload valve in position "B"	
VB2 (3) (4)	Anti-cavitation valve in "B"	
VB4 (3)	Prearranged for auxiliary valve in "B" with plug	

- (1) For DCV40, the service ports valves can not assembled with HPCO function.
- (2) Specify the relief valve setting (from 20 to 350 bar). During the order it is suggested to specify the flow rate.
- (3) For service port valves or prearranged for port valve with plug in "A" and/or "B" port please contact our commercial department.
- (4) Only for DCV20

Handle lever (optional field)

Working section repeated for n. times (optional filed)

DCV**/* IS * *** (***) ST** CS** D** **V**** **W*** Xn U* F*

W* Handle lever

**	Description	Drawing
W1	Standard DCV 20 For cloche control use W2	
W2	Standard DCV 40	

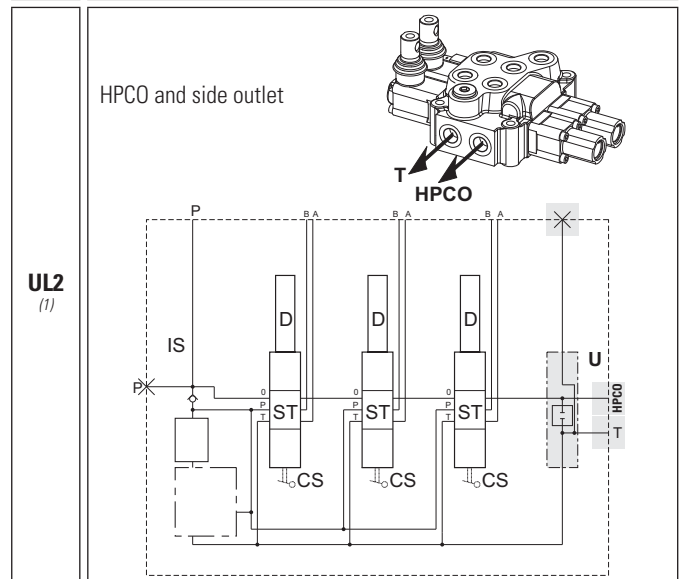
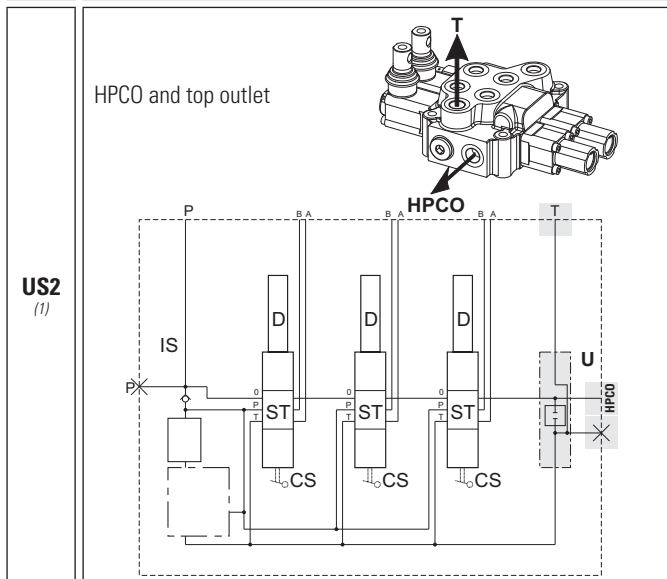
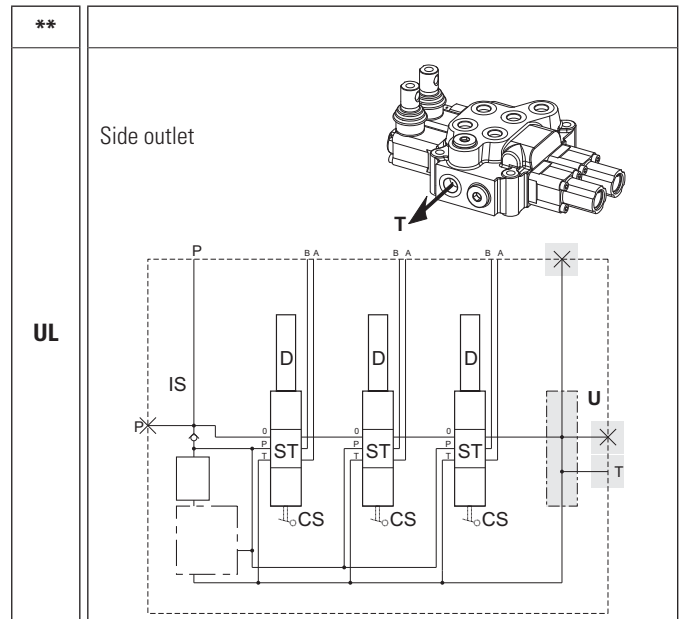
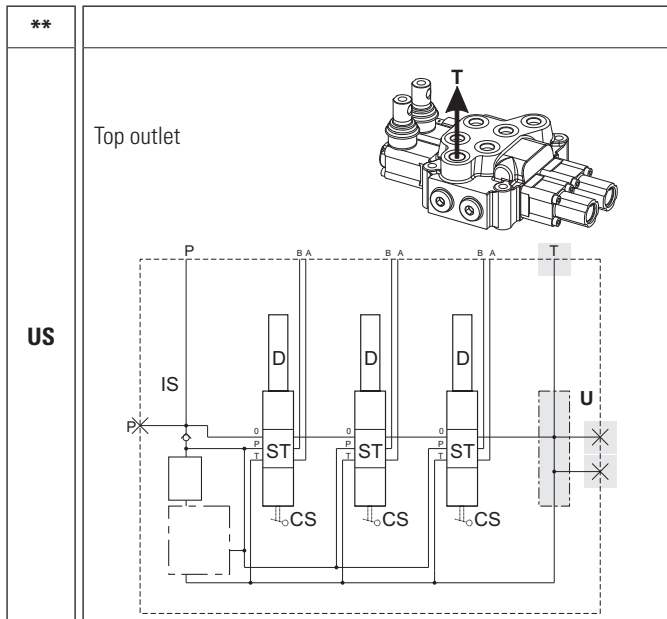
MONOBLOCK

Outlet sections

Outlet

DCV**/* IS * *** (***) ST** CS** D** V** W* Xn **U*** F*

U* Outlet



(1) For DCV40 the function HPCO (US2 – UL2) is not available in with service ports valves.

Threads

DCV**/* IS * *** (***) ST** CS** D** V** W* Xn U* **F***

F* Threads

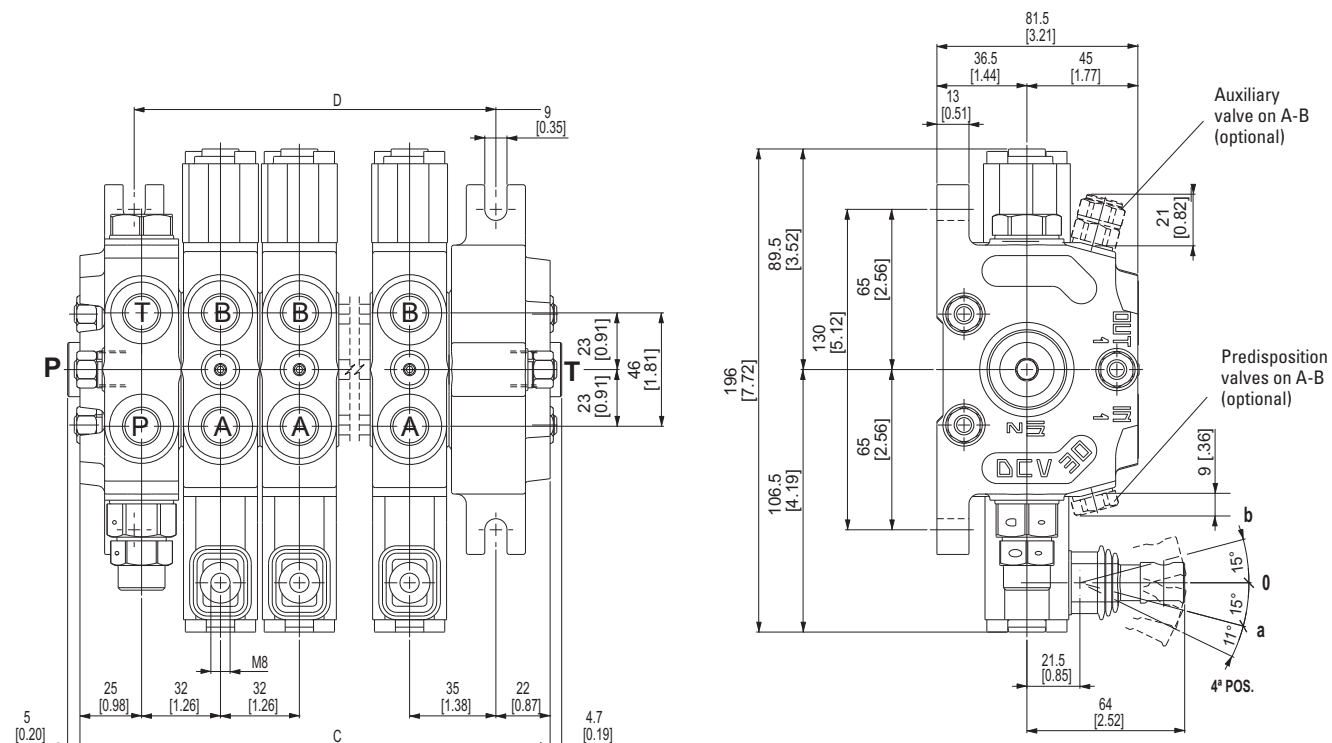
**	Description	DCV20 P-A-B-T-HPCO	DCV40 P-A-B-T-HPCO
F3	3/8" BSP	•	• (2)
F4	1/2" BSP		•
F31	9/16" - 18UNF (SAE 6)	•	
F32	3/4" - 16UNF (SAE 8)		•
F33	7/8" - 14UNF (SAE 10)		• (2)

(2) Threads availables on request

MONOBLOCK

Modular valve DCV30

OVERALL DIMENSIONS

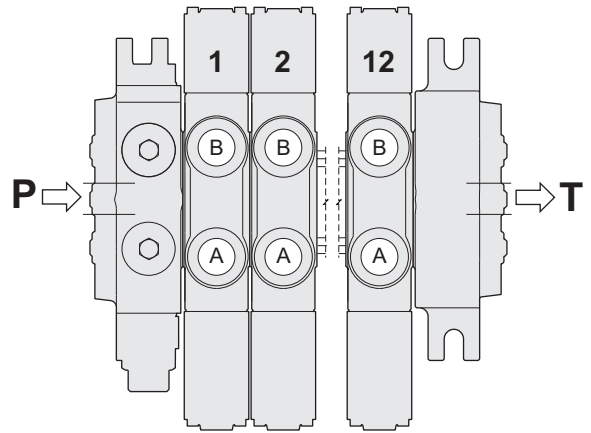
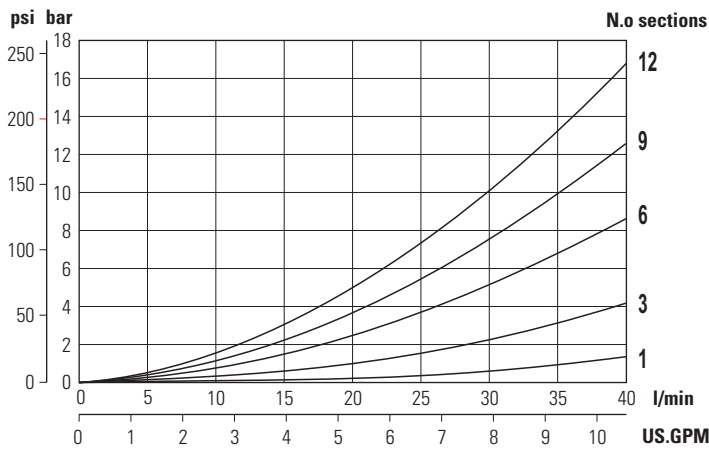


Tie-rod tightening torque: **35 Nm [25.8 lbf.ft]**

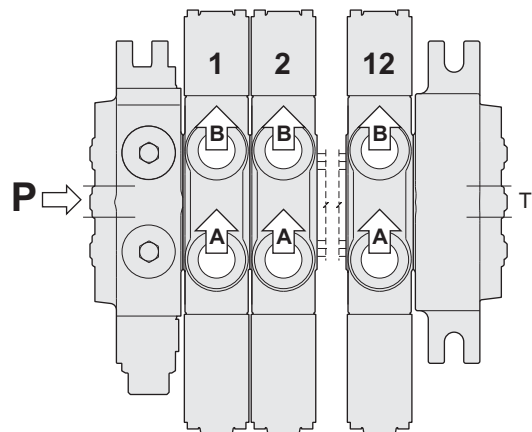
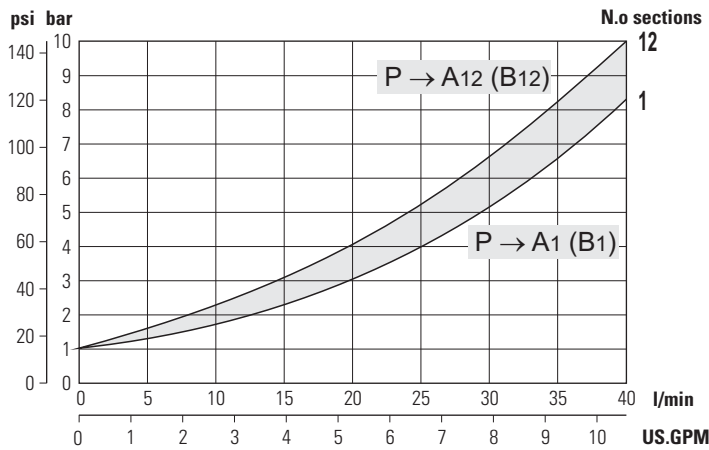
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 30/1	114 [4.49]	70 [2.76]	4.70 [10.34]	40 [10.6]	350 [5075]
DCV 30/2	146 [5.75]	102 [4.02]	6.40 [14.08]		
DCV 30/3	178 [7.01]	134 [5.28]	8.10 [17.82]		
DCV 30/4	210 [8.27]	166 [6.54]	9.80 [21.56]		
DCV 30/5	242 [9.53]	198 [7.80]	11.50 [25.30]		
DCV 30/6	274 [10.79]	230 [9.06]	13.20 [29.04]		
DCV 30/7	306 [12.05]	262 [10.31]	14.90 [32.78]		
DCV 30/8	338 [13.31]	294 [11.57]	16.60 [36.52]		
DCV 30/9	370 [14.57]	326 [12.83]	18.30 [40.26]		
DCV 30/10	402 [15.83]	358 [14.09]	20.00 [44.00]		
DCV 30/11	434 [17.09]	390 [15.35]	21.70 [47.74]		
DCV 30/12	466 [18.35]	422 [16.61]	23.40 [51.48]		

CHARACTERISTIC PRESSURE DROP FLOW CURVES

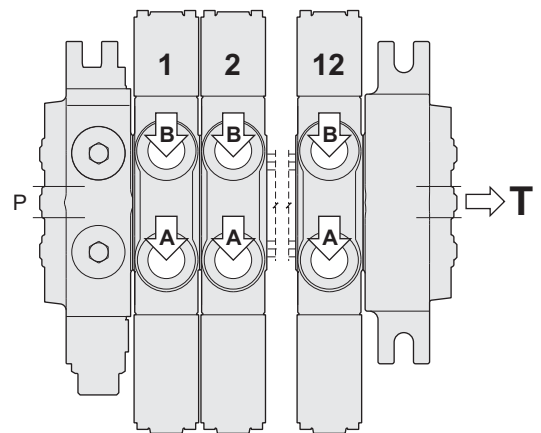
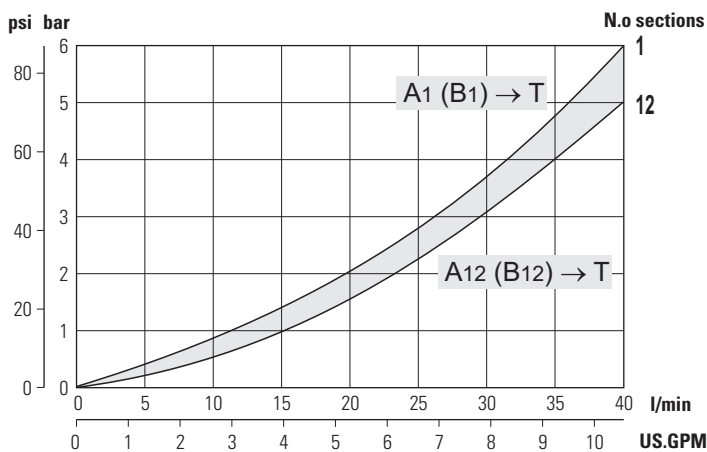
**Inlet pressure drop between P → T
spool in central position**



**Inlet pressure drop between P → A (B)
spool in working position**



**Inlet pressure drop between A (B) → T
spool in working position**

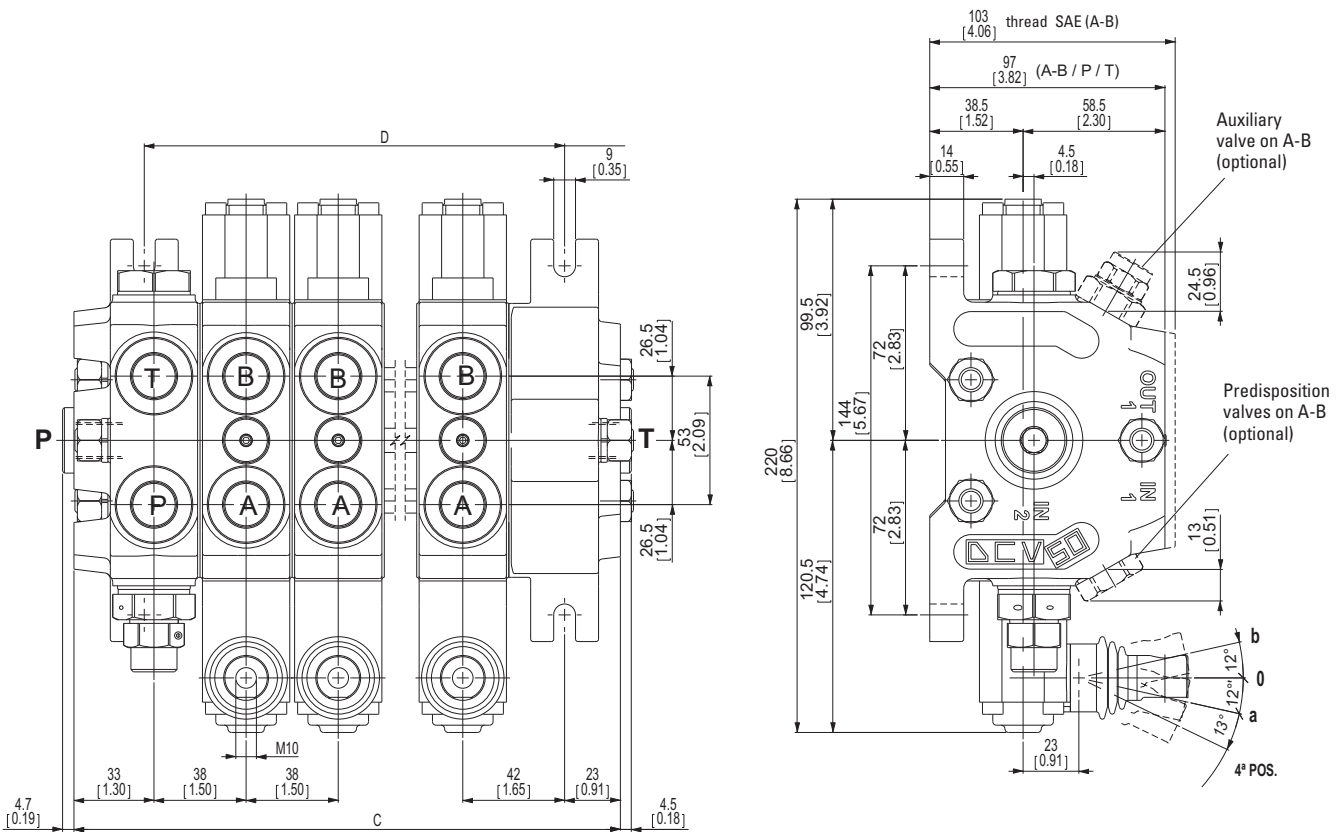


Metering curves are different for each type of spool. Therefore particular curves are supplied on request
The curves are obtained using standard double acting spool (cod. ST1) with oil at 50°C and viscosity 36 mm² / s

MODULAR

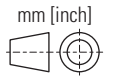
Modular valve DCV50

OVERALL DIMENSIONS



MODULAR

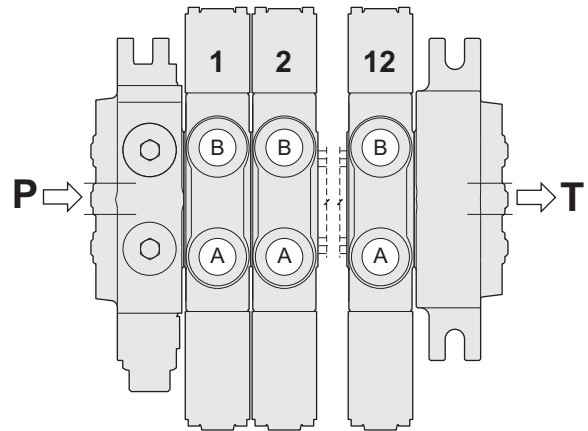
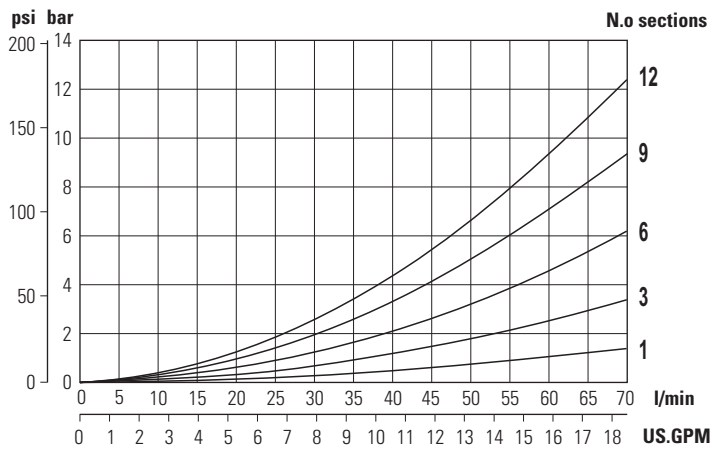
Tie-rod tightening torque: **55 Nm [40.6 lbf.ft]**



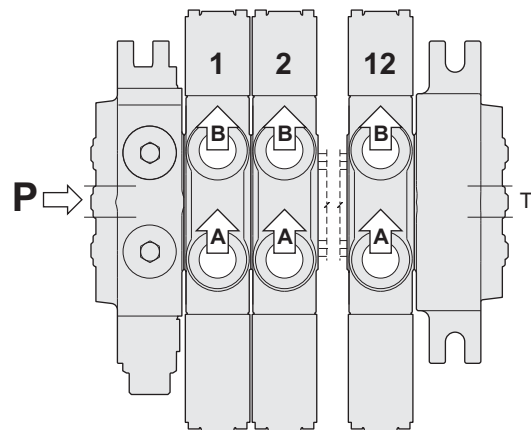
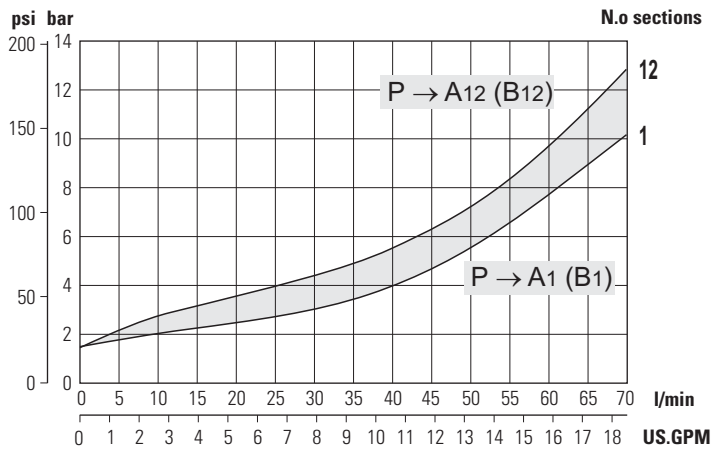
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 50/1	130 [5.12]	84 [3.31]	7.00 [15.40]	70 [18.5]	350 [5075]
DCV 50/2	168 [6.61]	122 [4.80]	9.60 [21.12]		
DCV 50/3	206 [8.11]	160 [6.30]	12.20 [26.84]		
DCV 50/4	244 [9.61]	198 [7.80]	14.80 [32.56]		
DCV 50/5	282 [11.10]	236 [9.29]	17.40 [38.28]		
DCV 50/6	320 [12.60]	274 [10.79]	20.00 [44.00]		
DCV 50/7	358 [14.09]	312 [12.28]	22.60 [49.72]		
DCV 50/8	396 [15.59]	350 [13.78]	25.20 [55.44]		
DCV 50/9	434 [17.09]	388 [15.28]	27.80 [61.16]		
DCV 50/10	472 [18.58]	426 [16.77]	30.40 [67.88]		
DCV 50/11	510 [20.08]	464 [18.27]	33.00 [72.60]		
DCV 50/12	548 [21.57]	502 [19.76]	35.60 [78.32]		

CHARACTERISTIC PRESSURE DROP FLOW CURVES

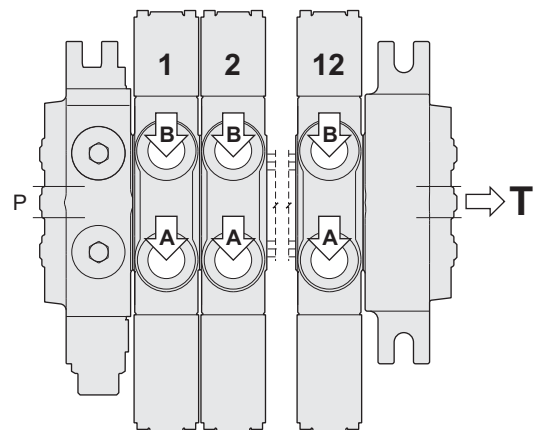
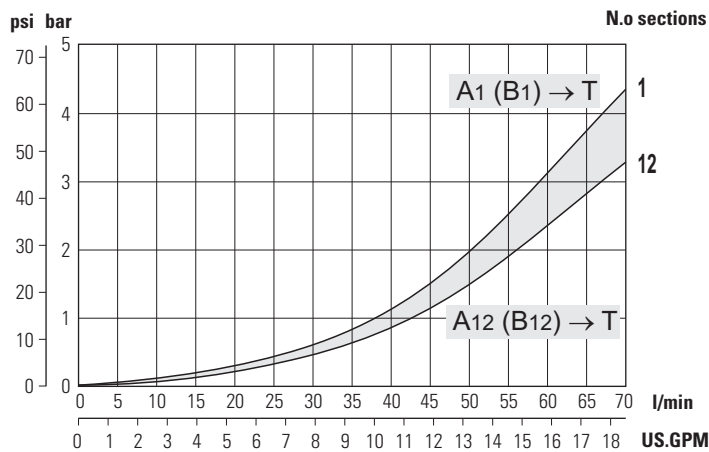
**Inlet pressure drop between P → T
spool in central position**



**Inlet pressure drop between P → A (B)
spool in working position**



**Inlet pressure drop between A (B) → T
spool in working position**

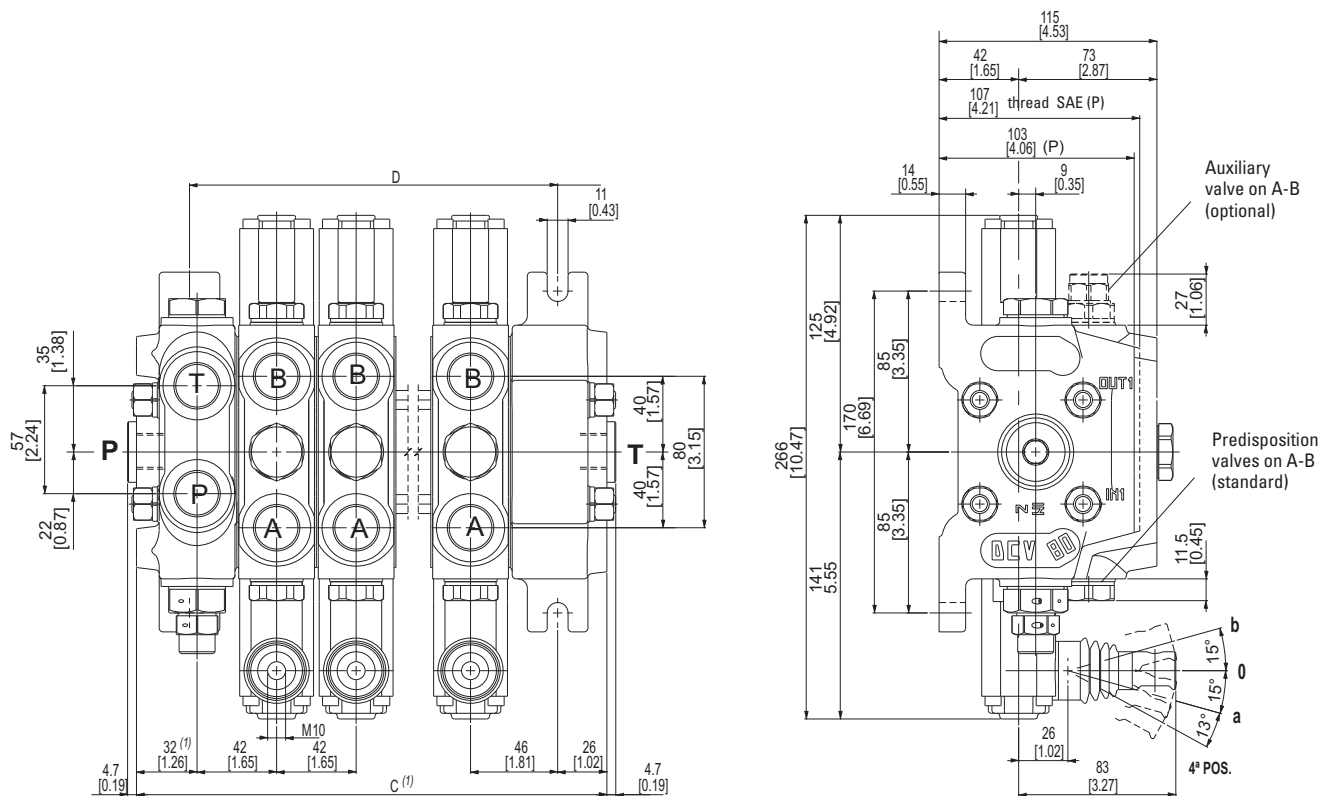


Metering curves are different for each type of spool. Therefore particular curves are supplied on request
The curves are obtained using standard double acting spool (cod. ST1) with oil at 50°C and viscosity 36 mm² / s

MODULAR

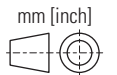
Modular valve DCV80

OVERALL DIMENSIONS



MODULAR

Tie-rod tightening torque: **55 Nm [40.6 lbf.ft]**

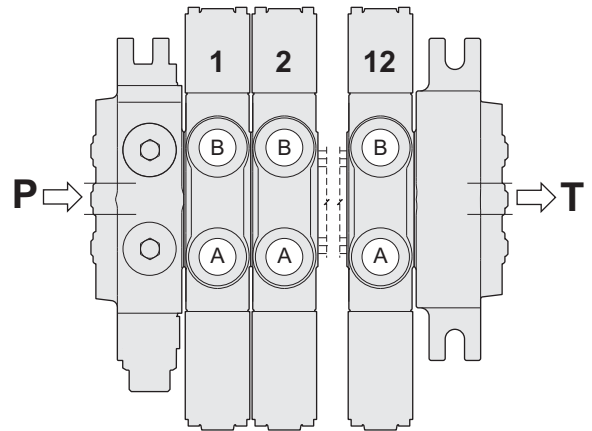
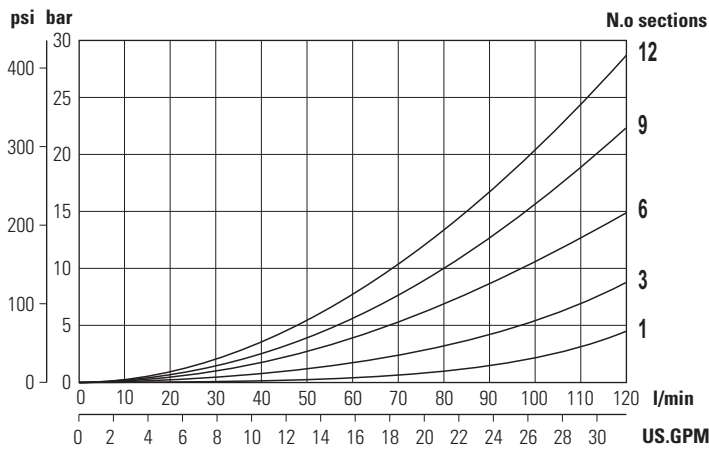


Type	C (1) mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 80/1	144 [5.67]	92 [3.62]	9.80 [21.56]	120 [31.7]	350 [5075]
DCV 80/2	186 [7.32]	134 [5.28]	13.70 [30.14]		
DCV 80/3	228 [8.98]	176 [6.93]	17.60 [38.72]		
DCV 80/4	270 [10.63]	218 [8.58]	21.50 [47.30]		
DCV 80/5	312 [12.28]	260 [10.24]	25.40 [55.88]		
DCV 80/6	354 [13.94]	302 [11.89]	29.30 [64.46]		
DCV 80/7	396 [15.59]	344 [13.54]	32.20 [70.84]		
DCV 80/8	438 [17.24]	386 [15.20]	37.10 [81.62]		
DCV 80/9	480 [18.90]	428 [16.85]	41.00 [90.20]		
DCV 80/10	522 [20.55]	470 [18.50]	44.90 [98.78]		
DCV 80/11	564 [22.20]	512 [20.16]	48.80 [107.36]		
DCV 80/12	606 [23.86]	554 [21.81]	52.70 [115.94]		

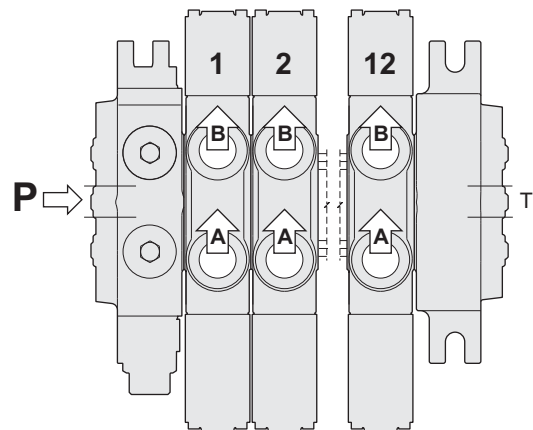
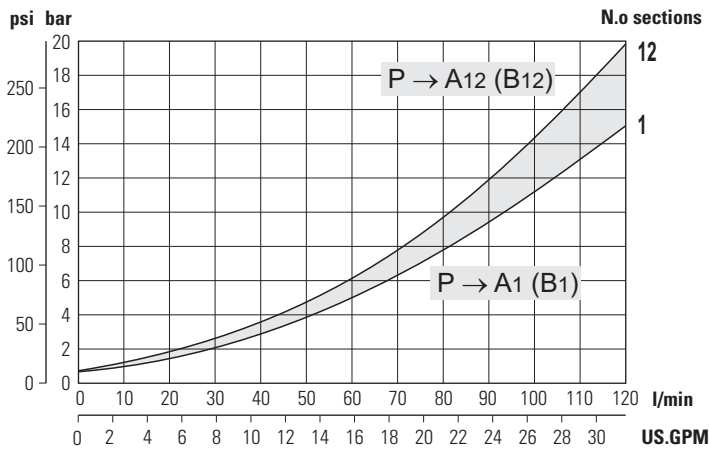
(1) Increase the dimensions of 7 mm [0.28 inch] for the body with SAE threads

CHARACTERISTIC PRESSURE DROP FLOW CURVES

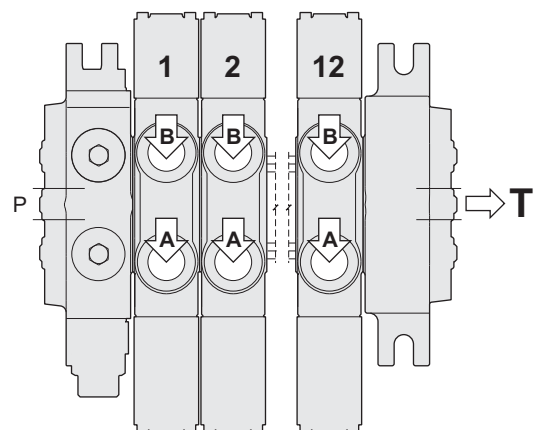
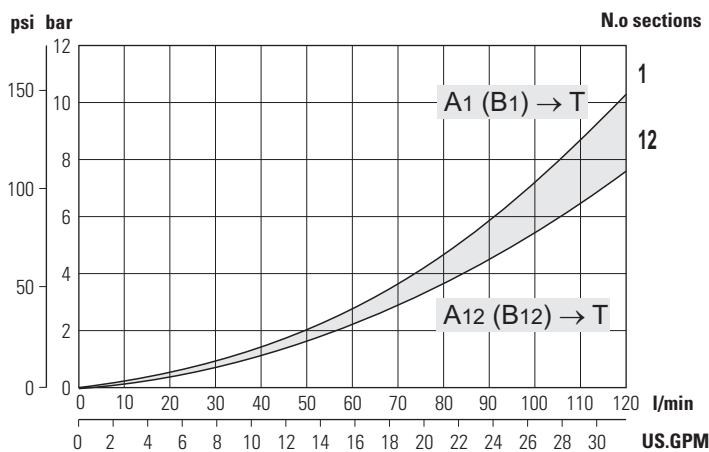
**Inlet pressure drop between P → T
spool in central position**



**Inlet pressure drop between P → A (B)
spool in working position**



**Inlet pressure drop between A (B) → T
spool in working position**



Metering curves are different for each type of spool. Therefore particular curves are supplied on request
The curves are obtained using standard double acting spool (cod. ST1) with oil at 50°C and viscosity 36 mm² / s

MODULAR