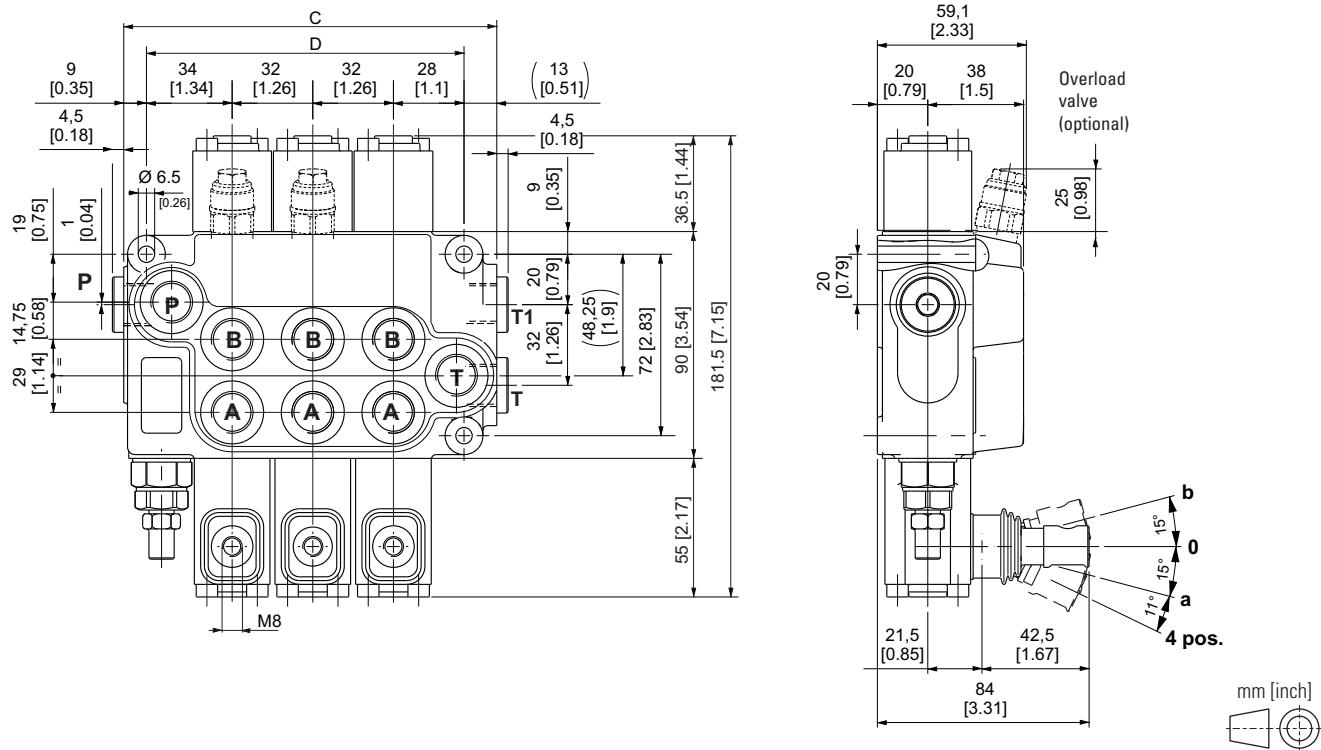


Mobile valves DCV20

 brevini

OVERALL DIMENSIONS



MONOBLOCK

Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 20/1	80 [3.15]	62 [2.44]	2.10 [4.62]		
DCV 20/2	112 [4.41]	94 [3.70]	3.25 [7.15]		
DCV 20/3	144 [5.67]	126 [4.96]	4.35 [9.57]		
DCV 20/4	176 [6.93]	158 [6.22]	5.45 [11.99]	40 [10.6]	400 [5800]
DCV 20/5	208 [8.19]	190 [7.48]	6.55 [14.41]		
DCV 20/6	240 [9.45]	222 [8.74]	7.65 [16.83]		

Ordering code

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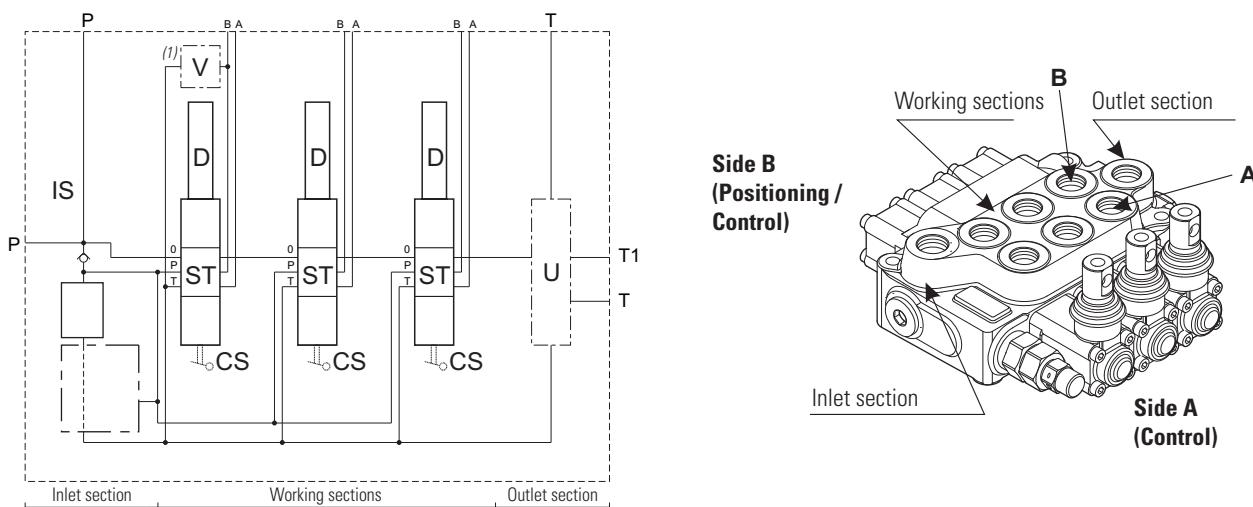
MONOBLOCK

Model	Inlet section			Working sections (repeat for any section)					Outlet section		Threads
	DCV ** / *	IS*	*** (***)	ST**	CS**	D**	V**(***)	W*	Xn	U*	F*
Description	Page										
Size: DCV20 DCV40	5-7										
N.o working sections											
Inlet type	11										
Valves arrangement	12										
Main relief valve setting (1)	12										
Spools	13										
Control side A	14										
Positioning / Control side B	19										
Service port valves (1) (2)	24										
Overload valve setting (1)	24										
Hand lever (1)	24										
Working section repeated for n. times	24										
Outlet	25										
Threads	25										

(1) ----- Optional fields. Not specify if not required.

(2) Service port valves optional, is required a special monoblock body.

HYDRAULIC SCHEME

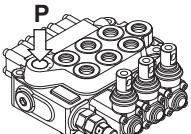
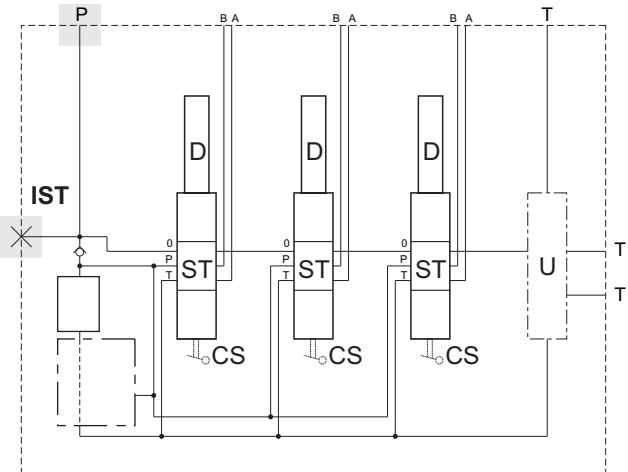
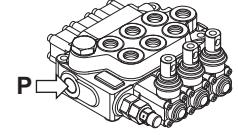
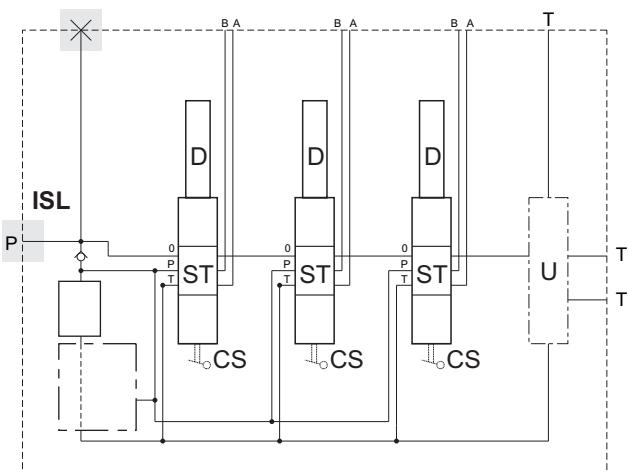


Inlet sections

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Inlet type									
DCV**/*	IS*	***	(***)	ST**	CS**	D**	V**	W*	Xn

IS* Inlet type

**	Description	Drawing
IST (1)	Top inlet (standard)	 
ISL (2)	Side inlet	 

(1) On request. RIGHT inlet section with top inlet (IDT). Contact our sales department.

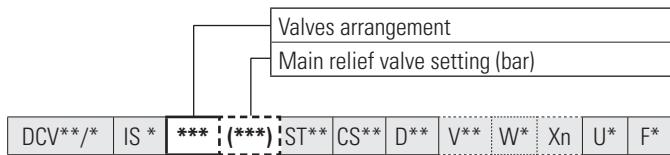
(2) On request. RIGHT inlet section with side inlet (IDL). Contact our sales department.

MONOBLOCK

Inlet sections

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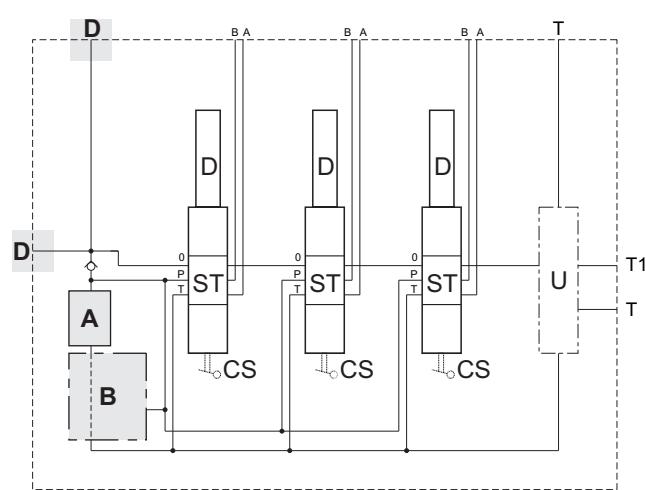
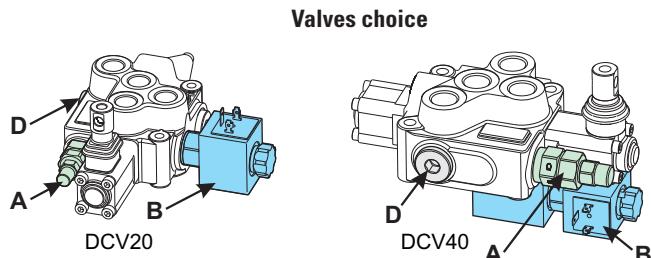
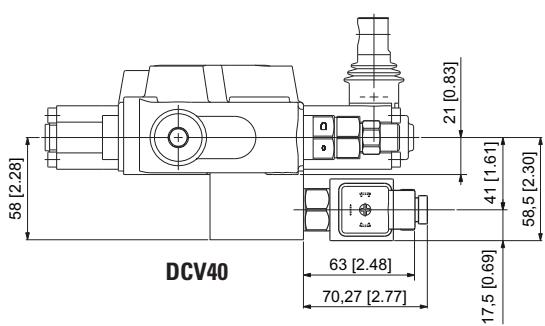
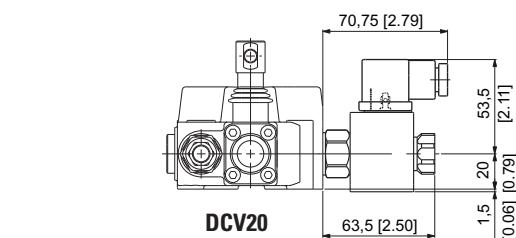
MONOBLOCK

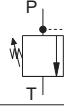


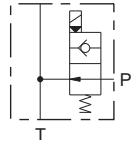
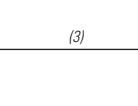
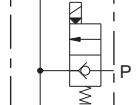
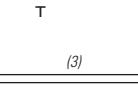
*** (***)
Valves arrangements and main
relief valve setting

***	(***)	Arrangements		
		A*	B*	D*
001	(1)	A1	—	D0
002	(1)	A1	B6	D0
003	(1)	A1	B7	D0
004	(1)	A1	B8	D0
005	(1)	A1	B9	D0
006	(1)	A1	B10	D0
007	(1)	A1	B11	D0
008	(1)	A1	B12	D0
009	(1)	A1	B13	D0
010	(1)	A1	—	D15
011	—	A14	—	D0
012	—	A14	—	D15
013	—	A14	B6	D0
014	—	A14	B7	D0
015	—	A14	B8	D0
016	—	A14	B9	D0
017	—	A14	B10	D0
018	—	A14	B11	D0
019	—	A14	B12	D0
020	—	A14	B13	D0

(1) Specify pressure relief valve setting [from 20 to 400 bar]. In the order it is suggested specify the flow rate.



A1	Direct main relief valve	
A14	Valve seat with plug	

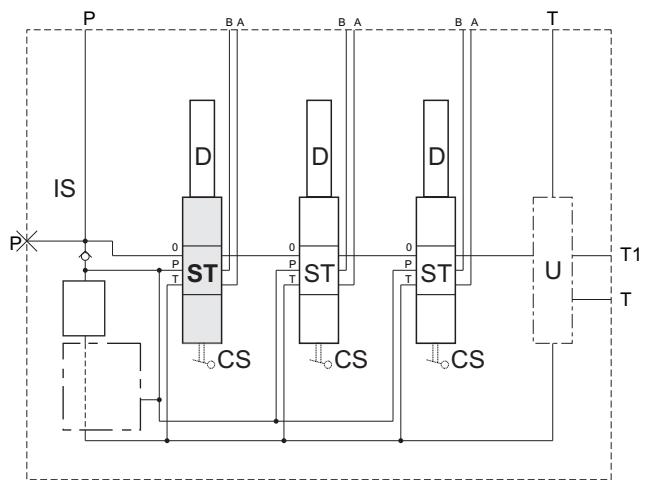
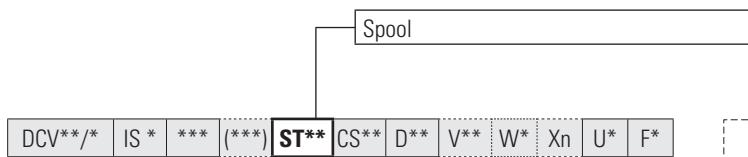
B6 (2)	Solenoid dump valve 12V work NORMALLY OPEN	
B8 (2)	Solenoid dump valve 24V work NORMALLY OPEN	
B10 (2)	Solenoid dump valve 26V work NORMALLY OPEN	
B12 (2)	Solenoid dump valve 30V work NORMALLY OPEN	
B7 (2)	Solenoid dump valve 12V work NORMALLY CLOSED	
B9 (2)	Solenoid dump valve 24V work NORMALLY CLOSED	
B11 (2)	Solenoid dump valve 26V work NORMALLY CLOSED	
B13 (2)	Solenoid dump valve 30V work NORMALLY CLOSED	
D0	Plug - Standard (position selected with IST or ISL)	
D15	Pressure gauge connection G 1/4" (re- place the plug selected with IST or ISL)	

(2) Include block (DCV40) and special monoblock body

(3) Solenoid features	12 Vdc	24 Vdc	26 Vdc	30 Vdc
Nominal power	17 W	20 W	20 W	17 W
Connector			DIN 43650 ISO 4400	
Protection degree			IP65	
Ambient temperature			-30 +60 °C	

Working sections

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ST Spool**

**	Description	Symbol
ST1 ST1G (1)	3 position, double acting	
ST2	3 positions, double acting, - Lc blocked - A and B open	
ST3	3 positions, double acting, - Lc blocked - A and B blocked	
ST4 ST4G (1)	3 positions, double acting, - A and B open	
ST5 ST5G (1)	3 positions, double acting, - A open - B blocked	
ST6 ST6G (1)	3 positions, double acting, - A blocked - B open	
ST7	3 positions, single acting in A	
ST8	3 positions, single acting in B	

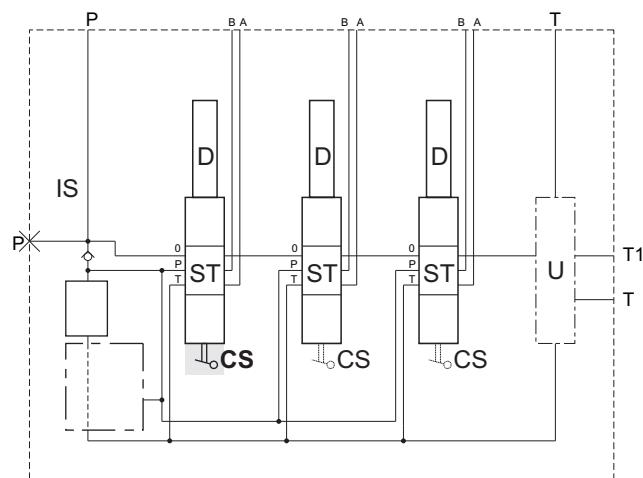
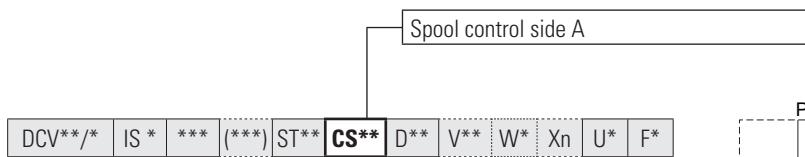
**	Description	Symbol
ST9	3 positions, single acting in A - A open	
ST10	3 positions, single acting in B - B open	
ST11	3 positions, double acting regenerative in A (not standard)	
ST36	3 positions, double acting regenerative in B (not standard)	
ST12	4 positions, double acting with 4th float position	
ST23	2 positions with function dead man (unactivated) in "a" position ; working position in "0"	
ST24	2 positions with function dead man (unactivated) in "b" position ; working position in "0"	
ST27	2 positions with function dead man (unactivated) in "0" position ; working position in "b"	
ST28	2 positions with function dead man (unactivated) in "0" position ; working position in "a"	

(1) **STG** = Extra metering

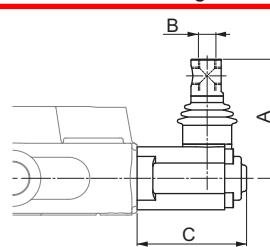
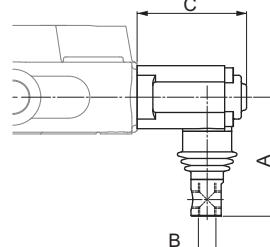
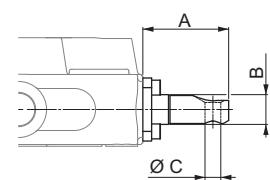
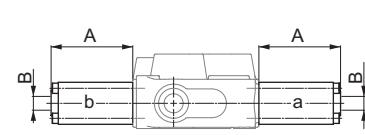
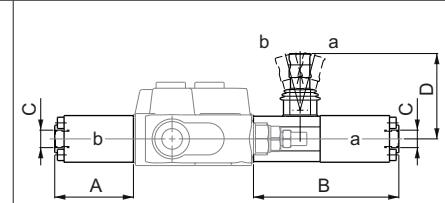
Working sections

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CS** Spool control side A

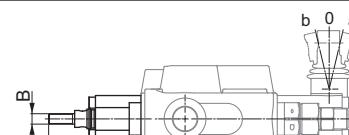
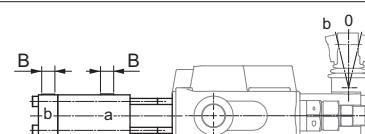
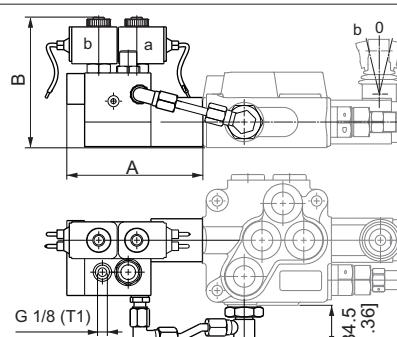
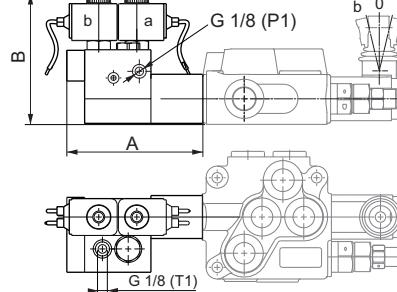
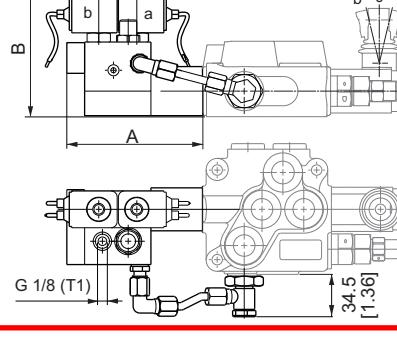
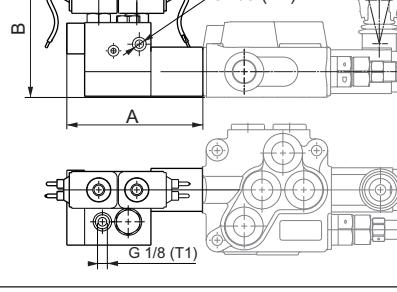
**	Description	Drawing																			
CS1 CSA1 (1)	Standard handle		<table border="1"> <thead> <tr> <th></th> <th>A mm inch</th> <th>B mm inch</th> <th>C mm inch</th> <th>CS1 mm inch</th> <th>CSA1 mm inch</th> </tr> </thead> <tbody> <tr> <td>DCV 20</td> <td>64</td> <td>2.52</td> <td>M8</td> <td>55</td> <td>2.17</td> </tr> <tr> <td>DCV 40</td> <td>62.5</td> <td>2.46</td> <td>M10</td> <td>62.5</td> <td>2.46</td> </tr> </tbody> </table>		A mm inch	B mm inch	C mm inch	CS1 mm inch	CSA1 mm inch	DCV 20	64	2.52	M8	55	2.17	DCV 40	62.5	2.46	M10	62.5	2.46
	A mm inch	B mm inch	C mm inch	CS1 mm inch	CSA1 mm inch																
DCV 20	64	2.52	M8	55	2.17																
DCV 40	62.5	2.46	M10	62.5	2.46																
CS2 CSA2 (1)	Handle at 180°		<table border="1"> <thead> <tr> <th></th> <th>A mm inch</th> <th>B mm inch</th> <th>C mm inch</th> <th>CS2 mm inch</th> <th>CSA2 mm inch</th> </tr> </thead> <tbody> <tr> <td>DCV 20</td> <td>64</td> <td>2.52</td> <td>M8</td> <td>55</td> <td>2.17</td> </tr> <tr> <td>DCV 40</td> <td>62.5</td> <td>2.46</td> <td>M10</td> <td>62.5</td> <td>2.46</td> </tr> </tbody> </table>		A mm inch	B mm inch	C mm inch	CS2 mm inch	CSA2 mm inch	DCV 20	64	2.52	M8	55	2.17	DCV 40	62.5	2.46	M10	62.5	2.46
	A mm inch	B mm inch	C mm inch	CS2 mm inch	CSA2 mm inch																
DCV 20	64	2.52	M8	55	2.17																
DCV 40	62.5	2.46	M10	62.5	2.46																
CS3	Without handle		<table border="1"> <thead> <tr> <th></th> <th>A mm inch</th> <th>B mm inch</th> <th>C mm inch</th> </tr> </thead> <tbody> <tr> <td>DCV 20</td> <td>41</td> <td>1.61</td> <td>12</td> <td>0.47</td> </tr> <tr> <td>DCV 40</td> <td>50</td> <td>1.97</td> <td>17</td> <td>0.67</td> </tr> </tbody> </table>		A mm inch	B mm inch	C mm inch	DCV 20	41	1.61	12	0.47	DCV 40	50	1.97	17	0.67				
	A mm inch	B mm inch	C mm inch																		
DCV 20	41	1.61	12	0.47																	
DCV 40	50	1.97	17	0.67																	
CS4	Hydraulic control - Max pilot pressure 35 bar 508 psi		<table border="1"> <thead> <tr> <th></th> <th>A mm inch</th> <th>B mm inch</th> </tr> </thead> <tbody> <tr> <td>DCV 20</td> <td>59</td> <td>2.32</td> </tr> <tr> <td>DCV 40</td> <td>68</td> <td>2.68</td> </tr> </tbody> </table>		A mm inch	B mm inch	DCV 20	59	2.32	DCV 40	68	2.68									
	A mm inch	B mm inch																			
DCV 20	59	2.32																			
DCV 40	68	2.68																			
CS53	Hydraulic lever control		<table border="1"> <thead> <tr> <th></th> <th>A mm inch</th> <th>B mm inch</th> <th>C mm inch</th> <th>D mm inch</th> </tr> </thead> <tbody> <tr> <td>DCV 20</td> <td>59</td> <td>2.32</td> <td>109</td> <td>4.29</td> </tr> </tbody> </table>		A mm inch	B mm inch	C mm inch	D mm inch	DCV 20	59	2.32	109	4.29								
	A mm inch	B mm inch	C mm inch	D mm inch																	
DCV 20	59	2.32	109	4.29																	

(1) CSA. = Aluminium version (only DCV40)

Working sections

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D** Positioning / Control side B

**	Description	Drawing		A mm inch	B mm inch		
D13 DA13 (1)	Preearranged for double control		DCV 20	58	2.28	M6	
			DCV 40	71	2.80	M8	
D14	ON-OFF pneumatic control - Pilot pressure 5-10 bar 72.5-145 psi		DCV 20	111	4.37	1/8" BSP	
			DCV 40	119.5	4.70	1/8" BSP	
D15 (2)	Electroidraulic ON-OFF control. Voltage 12Vdc with pressure reducing valve - Pilot pressure 20 bar 290 psi		DCV 20	91	3.58	104.5	4.11
			DCV 40	96	3.78	106.5	4.19
D16 (2)	Electroidraulic ON-OFF control. Voltage 12Vdc without pressure reducing valve - Pilot pressure 20 bar 290 psi		DCV 20	91	3.58	104.5	4.11
			DCV 40	96	3.78	106.5	4.19
D17 (2)	Electroidraulic ON-OFF control. Voltage 24Vdc with pressure reducing valve - Pilot pressure 20 bar 290 psi		DCV 20	91	3.58	104.5	4.11
			DCV 40	96	3.78	106.5	4.19
D18 (2)	Electroidraulic ON-OFF control. Voltage 24Vdc without pressure reducing valve - Pilot pressure 20 bar 290 psi		DCV 20	91	3.58	104.5	4.11
			DCV 40	96	3.78	106.5	4.19

(1) DA = Aluminium version (only DCV40)

(2) Valid only for the first section with electroidraulic control.

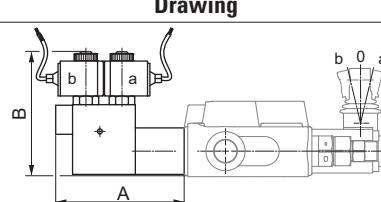
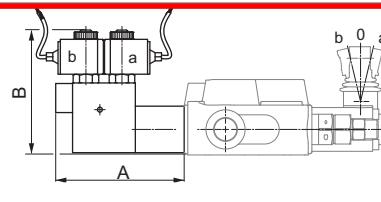
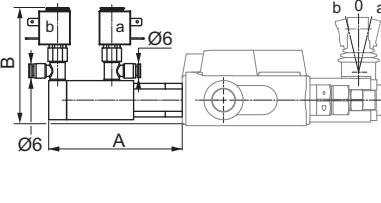
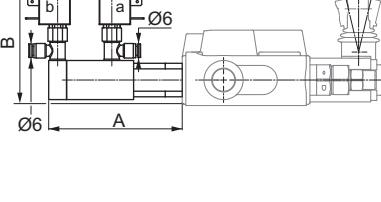
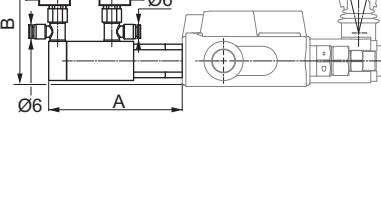
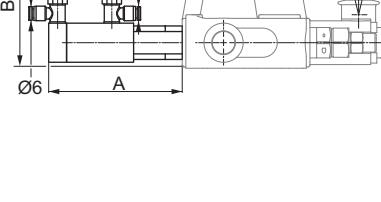
For proper operation it is required a pressure of 8 bar (116 psi) measured at the input P or P1.

Working sections

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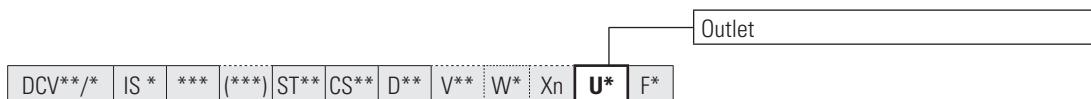
D** Positioning / Control side B

**	Description	Drawing		A mm inch	B mm inch
D19 (3)	Electrohydraulic ON-OFF control. Voltage 12Vdc - Pilot pressure 20 bar 290 psi		DCV 20 91 3.58 104.5 4.11 DCV 40 96 3.78 106.5 4.19	Connector Protection degree Ambient temperature Nominal power	wires 30 cm IP65 -30 +60 °C 10 W
D20 (3)	Electrohydraulic ON-OFF control. Voltage 24Vdc - Pilot pressure 20 bar 290 psi		DCV 20 91 3.58 104.5 4.11 DCV 40 96 3.78 106.5 4.19	Connector Protection degree Ambient temperature Nominal power	wires 30 cm IP65 -30 +60 °C 10 W
D21	ON-OFF electro pneumatic control. Voltage 12Vdc - Pilot pressure 5-10 bar 72.5-145 psi		DCV 20 111 4.37 101.5 4.00 DCV 40 119.5 4.70 103.5 4.07	Connector Protection degree Ambient temperature Nominal power	DIN 43650-B ISO6952 IP65 -20 +40 °C 8 W
D22	ON-OFF electro pneumatic control. Voltage 24Vdc - Pilot pressure 5-10 bar 72.5-145 psi		DCV 20 111 4.37 101.5 4.00 DCV 40 119.5 4.70 103.5 4.07	Connector Protection degree Ambient temperature Nominal power	DIN 43650-B ISO6952 IP65 -20 +40 °C 8 W
D23	ON-OFF electro pneumatic control. Voltage 26Vdc - Pilot pressure 5-10 bar 72.5-145 psi		DCV 20 111 4.37 101.5 4.00 DCV 40 119.5 4.70 103.5 4.07	Connector Protection degree Ambient temperature Nominal power	DIN 43650-B ISO6952 IP65 -20 +40 °C 8 W
D24	ON-OFF electro pneumatic control. Voltage 28Vdc - Pilot pressure 5-10 bar 72.5-145 psi		DCV 20 111 4.37 101.5 4.00 DCV 40 119.5 4.70 103.5 4.07	Connector Protection degree Ambient temperature Nominal power	DIN 43650-B ISO6952 IP65 -20 +40 °C 8 W

(3) Valid only for the section following the first one

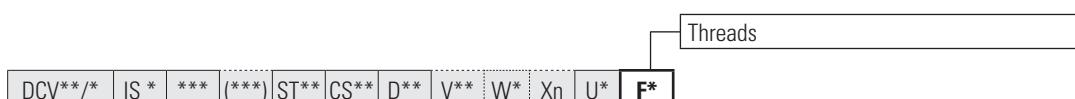
Outlet sections

 brevini



U* Outlet

** US	<p>Top outlet</p>
** UL	<p>Side outlet</p>
** US2	<p>HPCO and top outlet</p>
** UL2	<p>HPCO and side outlet</p>



F* Threads

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

(1) Threads available on request

MONOBLOCK