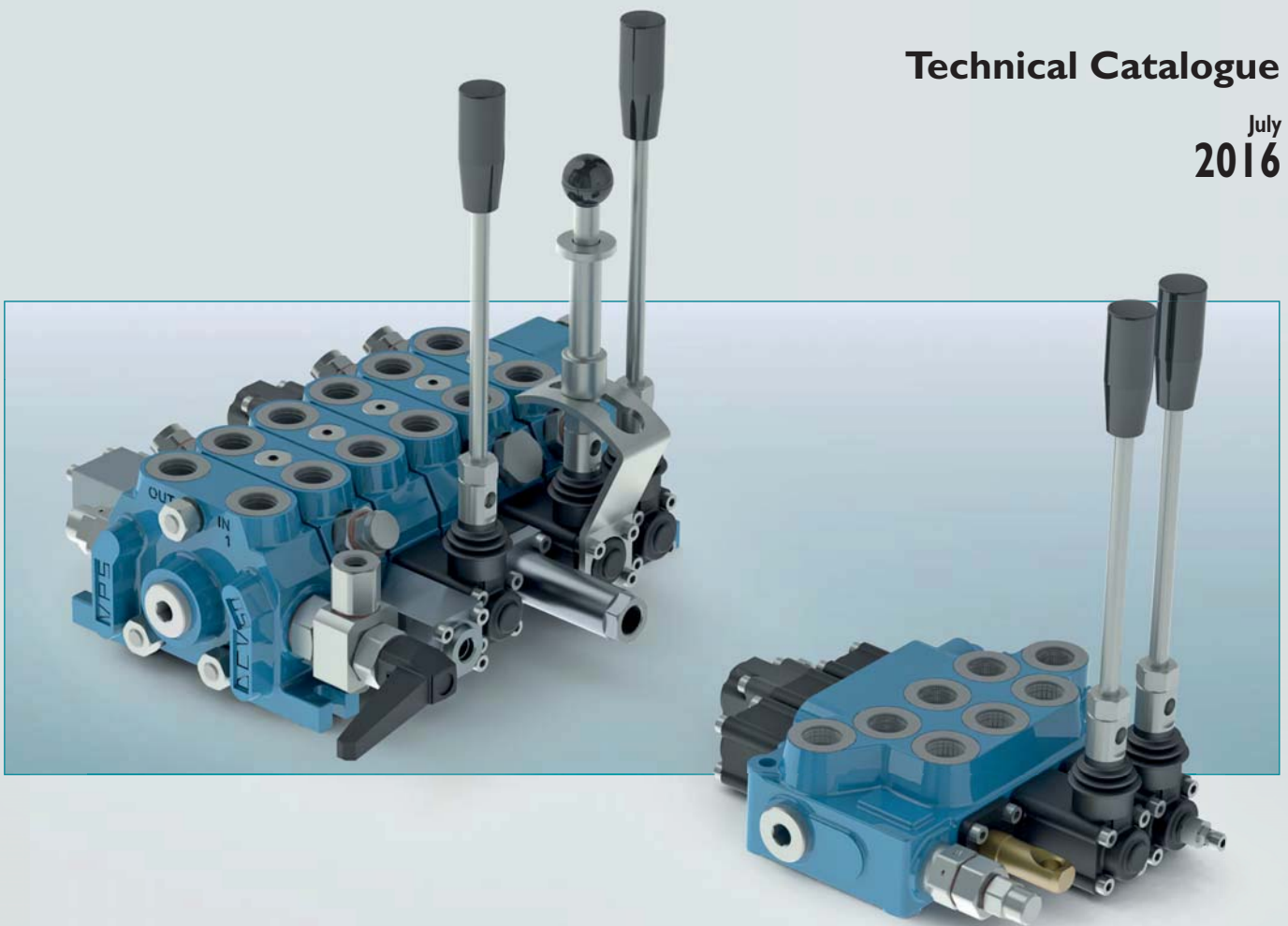


DCV MONOBLOCK AND MODULAR VALVES

Technical Catalogue

July
2016



INTRODUCTION

Read this instructions carefully before installation. All operations must be carried out by qualified personnel following the instructions.

The user must periodically inspect, based on the conditions of use and the substances used, the presence of corrosion, dirt, the state of wear and correct function of the valves.

HYDRAULIC FLUID

Use only mineral oil (HL, HLP) according to DIN 51524. Use of other different fluids may damage the good operation of the valve.

VISCOSITY

The oil viscosity must be in the range of 10 mm²/s to 500 mm²/s. Recommended oil viscosity 46 mm²/s (32 mm²/s for Cartridge valves)

Table 1: ISO viscosity grades

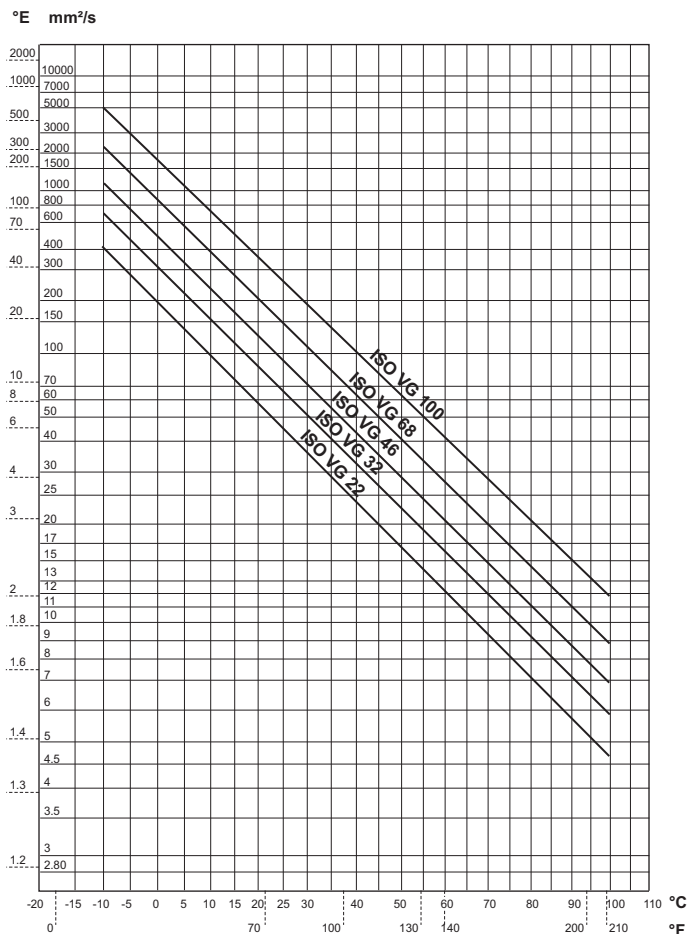
Viscosity grade	Average kinematic viscosity mm ² /s @ 40°C	Kinematic-viscosity limits mm ² /s @ 40°C	
		min.	max.
ISO VG 10	10	9.00	11.0
ISO VG 15	15	13.5	16.5
ISO VG 22	22	19.8	24.2
ISO VG 32	32	28.8	35.2
ISO VG 46	46	41.4	50.6
ISO VG 68	68	61.2	74.8
ISO VG 100	100	90.0	110

= Values used in the chart "Oil viscosity according to temperature"

CONVERSION TABLE SSU / °E / mm²/s

15000	20000	600	500	4000	5000
	10000	400	300		3000
5000		200	150	2000	1500
	2000	100	50	1000	500
1500		40	30	400	300
	1000	20	10	200	100
500		5	4	50	40
	400	3	2	30	20
300		1		10	
150	200				
50	100				
	0				
SSU	°E	mm ² /s			

OIL VISCOSITY ACCORDING TO TEMPERATURE



CONTAMINATION

Oil contamination is the main cause of faults and malfunction in hydraulic systems. Abrasive particles in the fluid erode or block moving parts, leading to system malfunction.

The valves we are offering do not require filtering characteristics any higher than those needed for usual hydraulic components such as pumps, motors, etc.

However, accurate filtering does guarantee reliability and a long life to all the system's hydraulic parts. Reliable performance and long working life for all oil-pressure parts is assured by maintaining the level of fluid contamination within the limits specified in the data sheet of the valve.

Hydraulic fluid must also be cleaned properly before filling the hydraulic circuit, especially when commissioning a new system, as this is when the oil contamination generally peaks due to its flushing effect on the components, and the running-in of the pump.

Maximum contamination level is required on datasheet of the valve according to ISO 4406:1999.

In the following table there is the correspondence between ISO 4406:1999 and old standard NAS 1638 for information purpose:

The standard ISO 4406:1999 defines the contamination level with three numbers that relate with the number of particles of average dimension equal or greater than 4 µm, 6 µm e 14 µm, in 1 ml of fluid.

In following table there is a reference to recommended contamination level and correspondence with old NAS 1638 standard.

Table 2: Recommended contamination level.

Type of system Type of valve	Oil filtration recommendations		
	Cleanliness class recommended		Absolute filtration micron rating (**)
	ISO 4406 : 1999	NAS 1638 (*)	
Systems or components operating at HIGH PRESSURE > 250 bar (3600 psi) HIGH DUTY CYCLE APPLICATIONS Systems or components with LOW dirt tolerance	18 / 16 / 13	7 - 8	5
Systems or components operating at MEDIUM / HIGH PRESSURE Systems and components with moderate dirt tolerance	19 / 17 / 14	9	10
Systems or components operating at LOW PRESSURE < 100 bar (1500 psi) LOW DUTY CYCLE APPLICATIONS Systems and components with GOOD dirt tolerance	20 / 18 / 15	10 - 11	20

* Contamination class NAS 1638: it is determined by counting the total particles of different size ranges contained in 100 ml of fluid.

** Absolute filtration: it is a characteristic of each filter, it refers the size (in micron) of the largest spherical particle which may pass through the filter.

WORKING TEMPERATURES

Ambient temperature range: -25°C to +60°C

Fluid temperature range (NBR seals): -25°C to +80°C

Thermal shocks can affect the performance and the expected life of the product, hence it is necessary to protect the product from these conditions.

SEALS

O-rings made in Acrylonitrile Butadiene (NBR) are normally fitted on the valves. The backup rings that protect the O-rings are also made in NBR, or sometimes PTFE. Both the O-rings and the backup rings are suitable for the working temperatures mentioned above.

For different temperatures, contact our sales department.

ELECTRICAL POWER SUPPLY

The combination of permanent overvoltage and very hot temperatures can stress the solenoid. Therefore always a good heat dissipation and voltage level has to be assured.

INSTALLATION

The feet of the valve must always and perfectly rest on a plane surface. Do not tamper the tie rod nuts (control valves) to avoid damaging the distributor.

Observe the size of the fitting threads.

Do not use solvents to avoid damaging the rubber parts of the valves.

USE AND MAINTENANCE

Observe the functional limits indicated in the technical catalogue. On a periodic basis and based on the conditions of use, check for cleanliness, state of wear or fractures and correct performance of the valve.

If the O-rings are damaged, replace them with those supplied by the manufacturer.

To assure the best working conditions at all time, check the oil and replace it periodically (after the first 100 working hours and then after every 2000 working hours or at least once every year).

Attention: all installation and maintenance intervention must be performed by qualified staff.

TRANSPORT AND STORAGE

The valve must be handled with care to avoid damage caused by impact, which could compromise its efficiency.

In the case of storage, keep the valves in a dry place and protect against dust and corrosive substances.

When storing for periods of more than 6 months, fill the valve with preserving oils and seal it.

CONVERSION CHART

Type	SI units		Alternative units		Conversion factor
Force	Newton	(N) [kgm/s ²]	Kilogram force	(kgf)	1 kgf = 9.807 N
			pound force	(lbf) [lbf/s ²]	1 lbf = 4.448 N
Length	millimeter	(mm) [10 m]	inch	(in)	1 in = 25.4 mm
	meter	(m) [1000 m]	yard	(yd) [3ft]	1 m = 1.0936 yd
	kilometer	(km) [1000 m]	mile	(mile) [1760 yd]	1 mile = 1.609 km
Torque	Newton meter	(Nm)	pound force.feet	(lbf.ft)	1 lbf.ft = 1.356 Nm
Power	kiloWatt (kW)	[1000 Nm/s]	horsepower	(hp)	1 kW = 1.341 hp
			metric horsepower	(CV)	1 kW = 1.36 CV
Pressure	MegaPascal	(MPa) [N/mm ²]	bar		1 MPa = 10 bar
			psi (lbf/in ²)		1 MPa = 145 psi
			ton/f/in ²		1 ton/f/in ² = 15.45 MPa
Flow rate	liter/min	(l/min)	UK gal/min		1 UK gal/min = 4.546 l/min
			US gal/min		1 US gal/min = 3.785 l/min
Temperature	Celsius	(°C)	Fahrenheit	(°F)	1°F = 1.8 °C+32
	-40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100				

MAIN CHARACTERISTICS

All the production VPS Brevini want to be a high quality production. Infact the project of each single valve and the choice of the better materials, machined with the highest technologies and under the strongest controls in each process, allow highest characteristics and numerous applications described in the following pages. Furthermore:

- all the casting are made in Shell-Moulding, in special graphite cast iron. This kind of cast iron is in higt resistance, and it allows to have, with the same external overall dimensions, bigger internal gallery, and lower pressure drops;
- all spools are made in high resistance steel, nichel plated, radial balanced and with special notches in order to have a better sensibility;
- all springs are made in high resistance steel. Pressure setting springs are pressed before testing;
- max tolerance of spool housing is 2 micron;
- internal leakage at 120 bar, 50° C and oil 30 cSt is beetwen 1 and 2 cm³/min, depending from the kind of spool and the kind of valve.

GENERAL CONDITION OF WORK

Max working temperature	-25 °C ÷ +80 °C
Suggested working temperature	+30 °C ÷ +60 °C
Max back pressure	20 bar (290 PSI)
Max contamination level	NAS 1638 class 9 (19/16 ISO-4406)
Fluid oil	Mineral oil
Kinematic viscosity	10 ÷ 460 mm ² /s
Filtration	β 12 ≥ 75

Spool are available with different metering, marine protected, Viton® seals, special spring, etc.

			MONOBLOCK VALVES		MODULAR VALVES			
			DCV 20	DCV 40	DCV 30	DCV 50	DCV 80	DCV MG
Features	Max section	N.o	6	6	12	12	12	10
	Max flow	l/min GPM	40 10.6	70 18.5	40 10.6	70 18.5	120 31.7	230 60.7
	Max pressure	BAR psi	400 5800	400 5800	350 5075	350 5075	350 5075	350 5075
Circuit	Parallel		•	•	•	•	•	•
	Series				•	•	•	•
	Tandem				•	•	•	•
Main relief v.	Direct		•	•	•			
	Piloted					•	•	•
Port relief valves	Overload		•	•	•	•	•	•
	Anti cavitation				•	•	•	•
	Combined				•	•	•	•
Threads	BSP ISO 228/1 Cavity ISO 1179	A-B	3/8"	1/2"	3/8"	1/2"	3/4"	1"
				3/8" ⁽¹⁾			1/2" ⁽¹⁾	3/4" ⁽¹⁾
		P	3/8"	1/2"	3/8"	1/2"	3/4"	1"
				3/8" ⁽¹⁾			1/2" ⁽¹⁾	3/4" ⁽¹⁾
		T	3/8"	1/2"	3/8" ⁽³⁾	1/2" ⁽³⁾	3/4" ⁽³⁾	1"
	SAE ISO 263 Cavity	A-B	9/16"-18UNF (SAE 6)	3/4"-16UNF (SAE 8)	9/16"-18UNF (SAE 6)	7/8"-14UNF (SAE 10)	1" 1/16-12UN (SAE 12)	1" 5/16-12UN (SAE 16)
				7/8"-14UNF (SAE 10) ⁽¹⁾			7/8"-14UNF (SAE 10) ⁽¹⁾	
		P	9/16"-18UNF (SAE 6)	3/4"-16UNF (SAE 8)	9/16"-18UNF (SAE 6)	7/8"-14UNF (SAE 10)	1" 1/16-12UN (SAE 12)	1" 5/16-12UN (SAE 16)
				7/8"-14UNF (SAE 10) ⁽¹⁾			7/8"-14UNF (SAE 10) ⁽¹⁾	
		T (Standard)	9/16"-18UNF (SAE 6)	3/4"-16UNF (SAE 8)	9/16"-18UNF (SAE 6) ⁽³⁾	7/8"-14UNF (SAE 10) ⁽³⁾	1" 1/16-12UN (SAE 12) ⁽³⁾	1" 5/16-12UN (SAE 16)
				7/8"-14UNF (SAE 10) ⁽¹⁾			7/8"-14UNF (SAE 10) ⁽¹⁻³⁾	
		T ⁽⁴⁾	—	—	3/4"-16UNF (SAE 8)	1" 1/16-12UN (SAE 12)	1" 1/16-12UN (SAE 12)	—
	A ÷ B	mm	± 5	± 5	± 5	± 5	± 7	± 8
		inch	± 0.20	± 0.20	± 0.20	± 0.20	± 0.28	± 0.31
		mm	- 3.5	- 5	- 3.5	- 5	- 5.5	- 5.5
Spool stroke	4th position	inch	- 0.14	- 0.20	- 0.14	- 0.20	- 0.22	- 0.22
		mm	—	—	± 4.5	± 4.5	± 5.5	± 8
	Series	inch	—	—	± 0.18	± 0.18	± 0.22	± 0.31
		mm	—	—	—	—	—	—

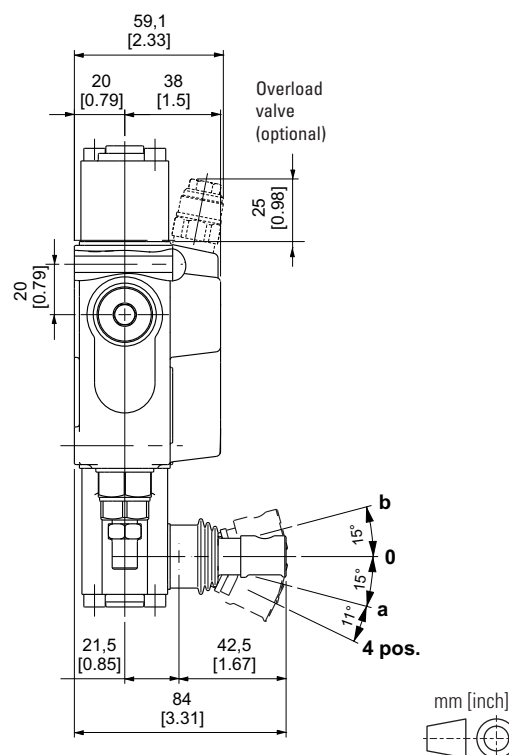
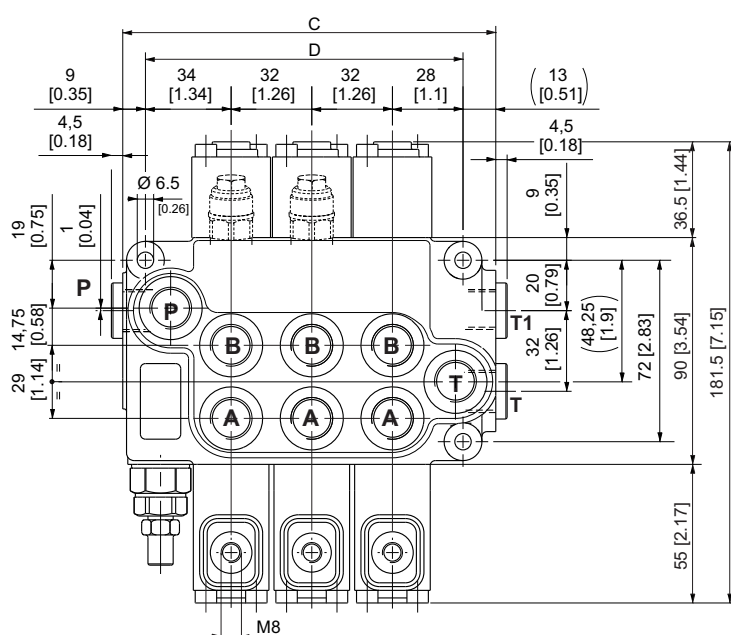
(1) threads availables on request

(3) inlet section with top output

(2) threads availables on request solo only for outlet side

(4) output section with standard upper thread + carry over (see page 61)

OVERALL DIMENSIONS

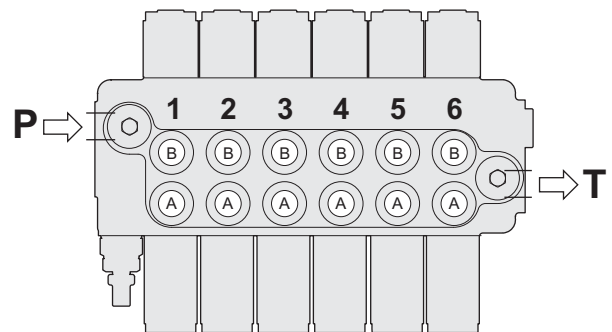
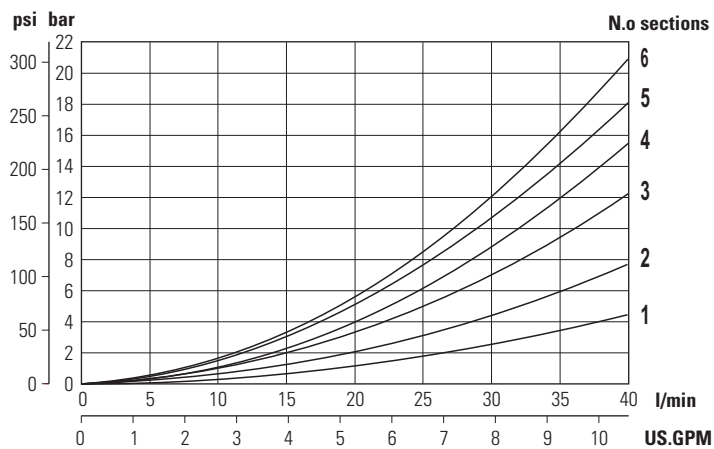


MONOBLOCK

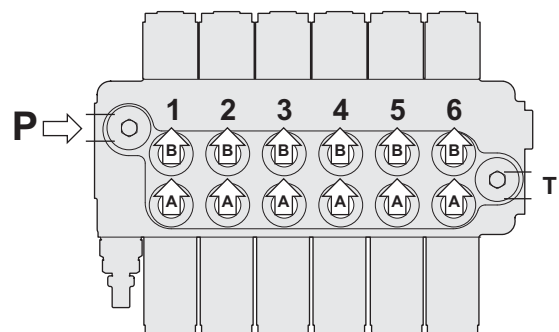
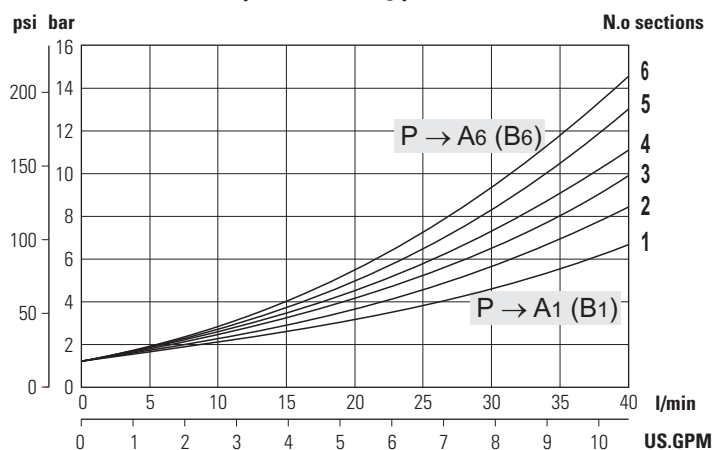
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 20/1	80 [3.15]	62 [2.44]	2.10 [4.62]	40 [10.6]	400 [5800]
DCV 20/2	112 [4.41]	94 [3.70]	3.25 [7.15]		
DCV 20/3	144 [5.67]	126 [4.96]	4.35 [9.57]		
DCV 20/4	176 [6.93]	158 [6.22]	5.45 [11.99]		
DCV 20/5	208 [8.19]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

CHARACTERISTIC PRESSURE DROP FLOW CURVES

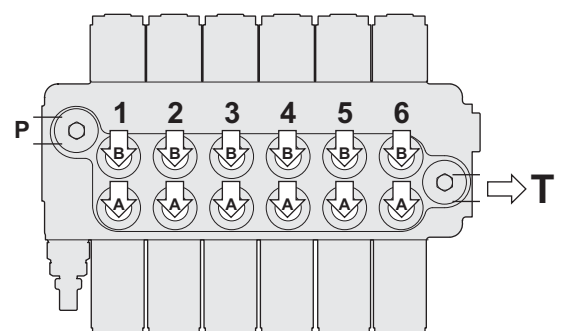
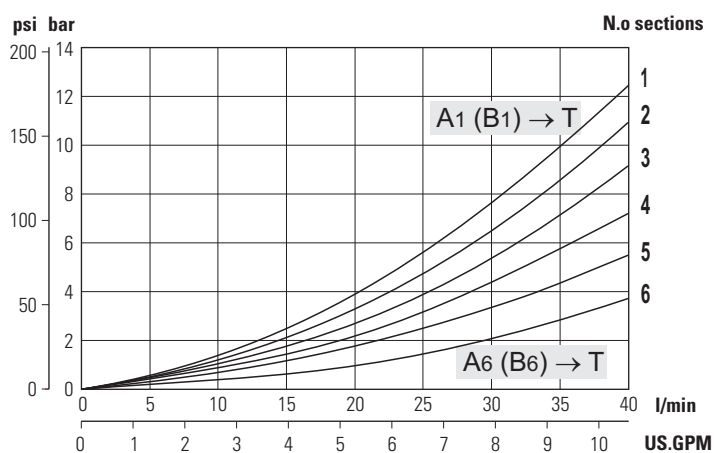
Inlet pressure drop between P → T
spool in central position



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



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



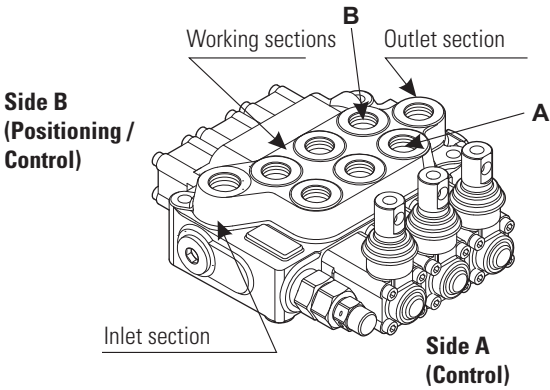
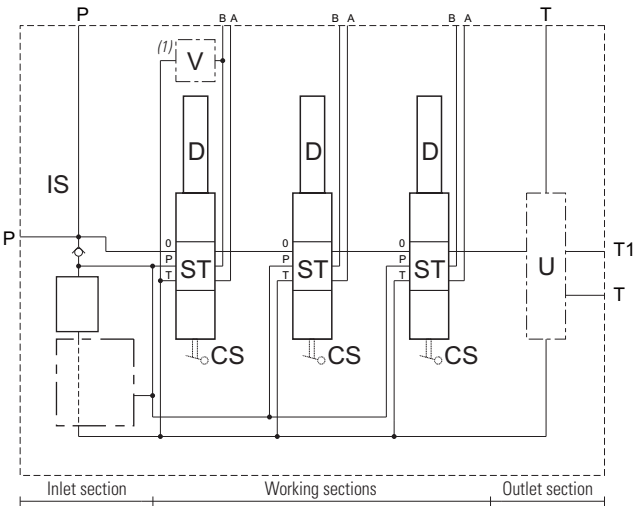
Metering curves are different for each type of spool. Therefore particular curves are supplied on request
The curves are obtained using standard double acting spool (cod. ST1) with oil at 50°C and viscosity 36 mm² / s

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

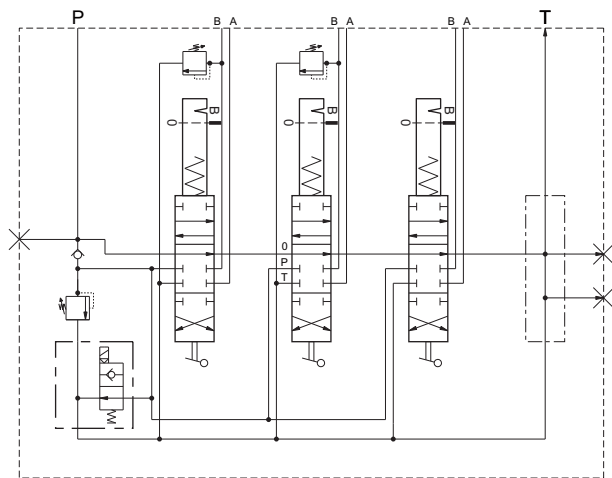
(1) ----- Optional fields. Not specify if not required.
 (2) Service port valves optional, is required a special monoblock body.

HYDRAULIC SCHEME



ORDERING CODE EXAMPLE

MONOBLOCK



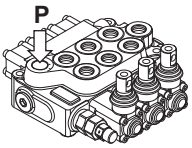
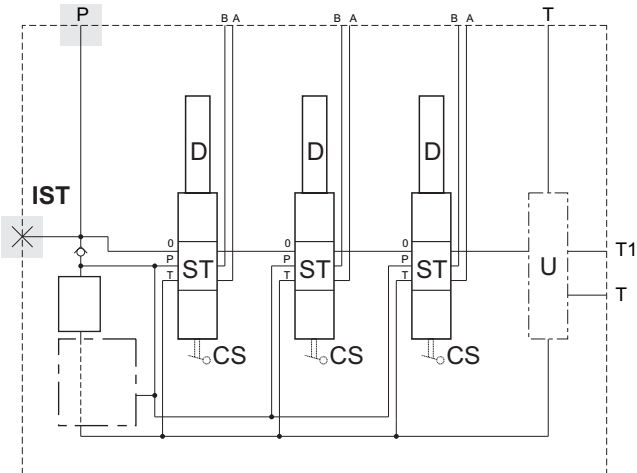
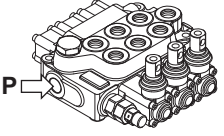
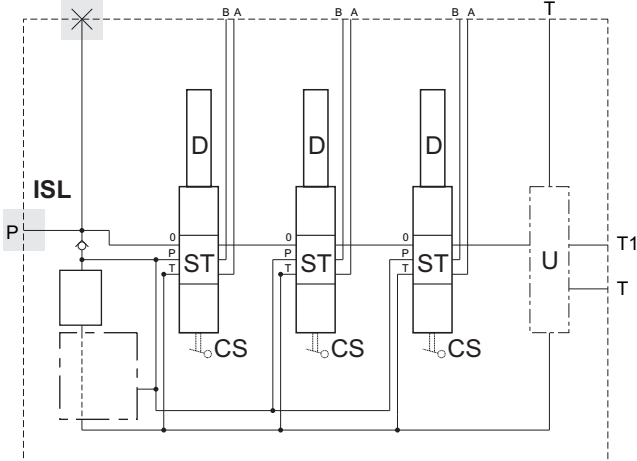
DCV40/3	IST	004	(200)	ST1	CS1	D4	VB1(150)	W2	X2	ST1	CS1	D4	W2	US	F4
---------	-----	-----	-------	-----	-----	----	----------	----	----	-----	-----	----	----	----	----

DCV40/3	- DCV40 3 sections monoblock
IST	- Top inlet
004	- Direct main relief valve + Solenoid dump valve 24V N. Open
(200)	- Valve setting 200 BAR
ST1	- Spool, 3 position, double acting
CS1	- Spool control side A
D4	- Spool control side B, 3 pos. spring centred spool, detent in "b"
VB1(150)	- Overload valve in position "B" - Setting 150 bar
W2	- Standard handle lever
X2	- Working section repeated for n. 2 times
ST1	- Spool, 3 position, double acting
CS1	- Spool control side A
D4	- Spool control cap side, 3 pos. spring centred spool, detent in "b"
W2	- Standard handle lever
US	- Top outlet
F4	- 1/2" BSP threads

Inlet type

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

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.

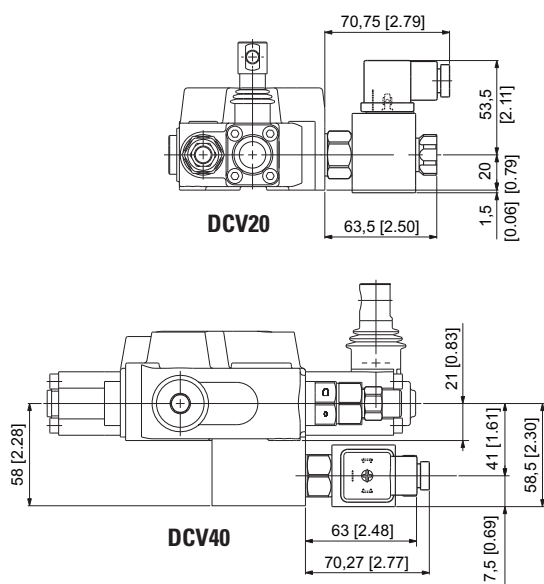
Inlet sections

Valves arrangement									
Main relief valve setting (bar)									
DCV**/*	IS *	***	(***)	IST**	CS**	D**	V**	W*	Xn
U*	F*								

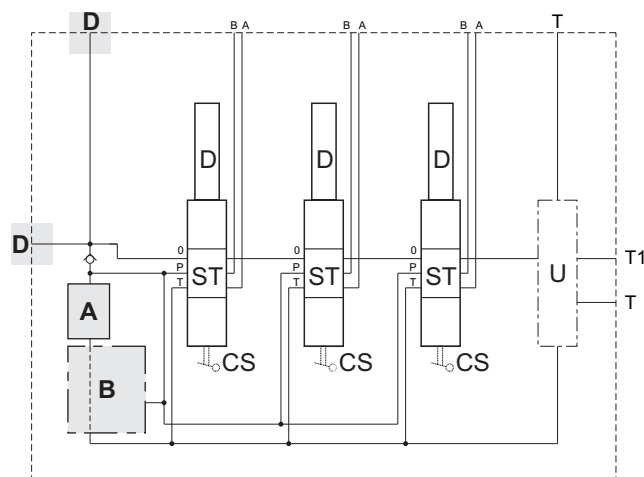
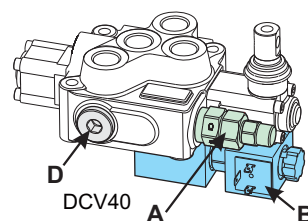
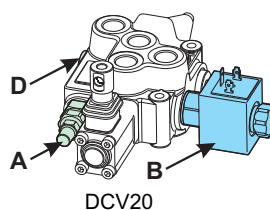
*** (**) Valves arrangements and main relief valve setting

***	(***)	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.



Valves choice

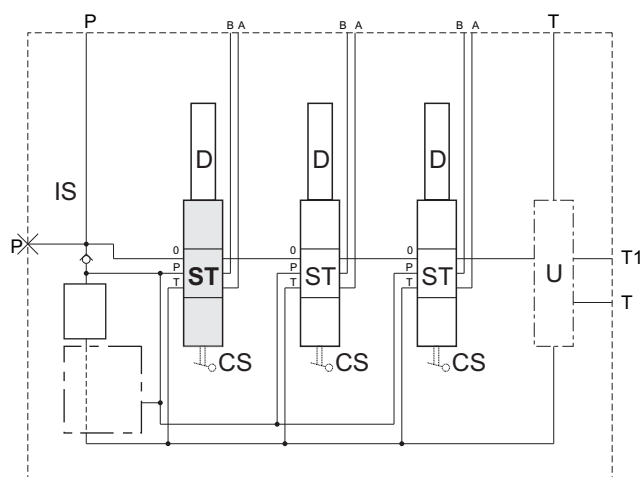
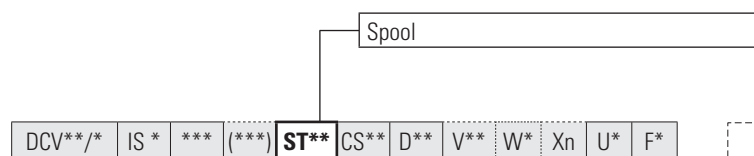


A1	Direct main relief valve	
A14	Valve seat with plug	
B6 (2)	Solenoid dump valve 12V work NORMALLY OPEN	
B8 (2)	Solenoid dump valve 24V work NORMALLY OPEN	
B10 (2)	Solenoid dump valve 26V work NORMALLY OPEN	
B12 (2)	Solenoid dump valve 30V work NORMALLY OPEN	(3)
B7 (2)	Solenoid dump valve 12V work NORMALLY 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	(3)
D0	Plug - Standard (position selectet with IST or ISL)	
D15	Pressure gauge connection G 1/4" (re- place the plug selected with IST or ISL)	

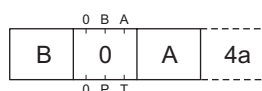
(2) Include block (DCV40) and special monoblock body

(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			



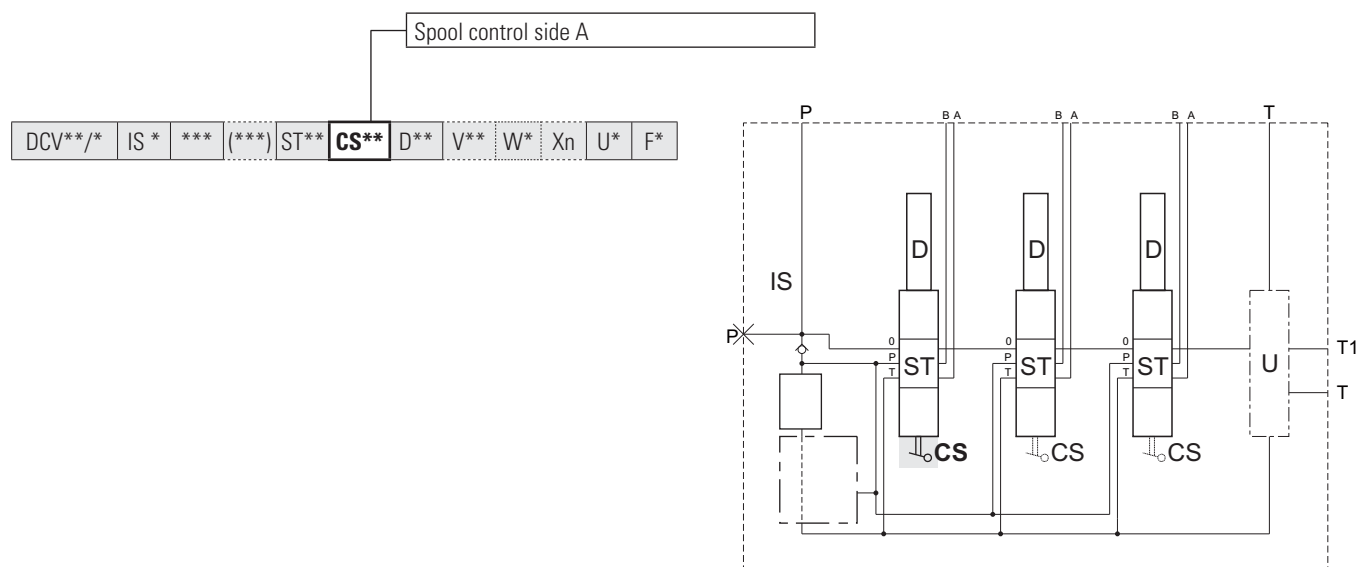
ST** *Spool*



**	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

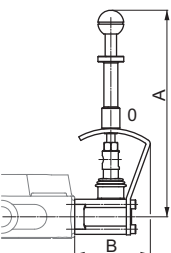
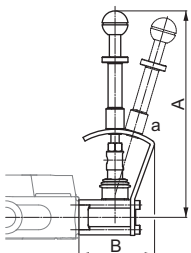
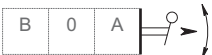
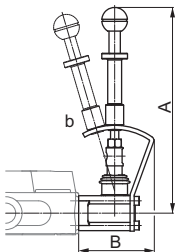
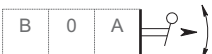
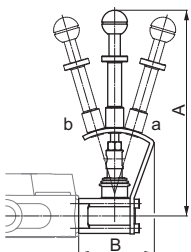
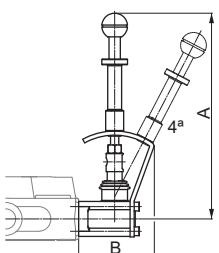
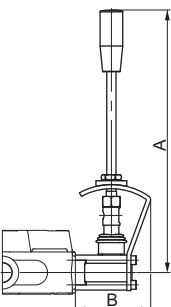


CS** Spool control side A

**	Description	Drawing																																								
CS1 CSA1 <i>(1)</i>	Standard handle B0A		<table><tr><th></th><th colspan="2">A</th><th rowspan="2">B</th><th colspan="4">C</th></tr><tr><th></th><th>mm</th><th>inch</th><th colspan="2">CS1</th><th colspan="2">CSA1</th></tr><tr><th></th><th></th><th></th><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>64</td><td>2.52</td><td>M8</td><td>55</td><td>2.17</td><td>—</td><td>—</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><td>67.5</td><td>2.66</td></tr></table>		A		B	C					mm	inch	CS1		CSA1						mm	inch	mm	inch	DCV 20	64	2.52	M8	55	2.17	—	—	DCV 40	62.5	2.46	M10	62.5	2.46	67.5	2.66
	A		B	C																																						
	mm	inch		CS1		CSA1																																				
				mm	inch	mm	inch																																			
DCV 20	64	2.52	M8	55	2.17	—	—																																			
DCV 40	62.5	2.46	M10	62.5	2.46	67.5	2.66																																			
CS2 CSA2 <i>(1)</i>	Handle at 180° B0A		<table><tr><th></th><th colspan="2">A</th><th rowspan="2">B</th><th colspan="4">C</th></tr><tr><th></th><th>mm</th><th>inch</th><th colspan="2">CS2</th><th colspan="2">CSA2</th></tr><tr><th></th><th></th><th></th><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>64</td><td>2.52</td><td>M8</td><td>55</td><td>2.17</td><td>—</td><td>—</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><td>67.5</td><td>2.66</td></tr></table>		A		B	C					mm	inch	CS2		CSA2						mm	inch	mm	inch	DCV 20	64	2.52	M8	55	2.17	—	—	DCV 40	62.5	2.46	M10	62.5	2.46	67.5	2.66
	A		B	C																																						
	mm	inch		CS2		CSA2																																				
				mm	inch	mm	inch																																			
DCV 20	64	2.52	M8	55	2.17	—	—																																			
DCV 40	62.5	2.46	M10	62.5	2.46	67.5	2.66																																			
CS3	Without handle B0A		<table><tr><th></th><th colspan="2">A</th><th colspan="2">B</th><th colspan="2">C</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>41</td><td>1.61</td><td>12</td><td>0.47</td><td>6</td><td>0.24</td></tr><tr><td>DCV 40</td><td>50</td><td>1.97</td><td>17</td><td>0.67</td><td>9</td><td>0.35</td></tr></table>		A		B		C			mm	inch	mm	inch	mm	inch	DCV 20	41	1.61	12	0.47	6	0.24	DCV 40	50	1.97	17	0.67	9	0.35											
	A		B		C																																					
	mm	inch	mm	inch	mm	inch																																				
DCV 20	41	1.61	12	0.47	6	0.24																																				
DCV 40	50	1.97	17	0.67	9	0.35																																				
CS4	Hydraulic control - Max pilot pressure 35 bar 508 psi b B0A a		<table><tr><th></th><th colspan="2">A</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th colspan="2"></th></tr><tr><td>DCV 20</td><td>59</td><td>2.32</td><td colspan="2">1/4" BSP</td></tr><tr><td>DCV 40</td><td>68</td><td>2.68</td><td colspan="2">1/4" BSP</td></tr></table>		A		B			mm	inch			DCV 20	59	2.32	1/4" BSP		DCV 40	68	2.68	1/4" BSP																				
	A		B																																							
	mm	inch																																								
DCV 20	59	2.32	1/4" BSP																																							
DCV 40	68	2.68	1/4" BSP																																							
CS53	Hydraulic lever control b B0A a		<table><tr><th></th><th colspan="2">A</th><th colspan="2">B</th><th>C</th><th colspan="2">D</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th></th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>59</td><td>2.32</td><td>109</td><td>4.29</td><td>1/4" BSP</td><td>64</td><td>2.52</td></tr></table>		A		B		C	D			mm	inch	mm	inch		mm	inch	DCV 20	59	2.32	109	4.29	1/4" BSP	64	2.52															
	A		B		C	D																																				
	mm	inch	mm	inch		mm	inch																																			
DCV 20	59	2.32	109	4.29	1/4" BSP	64	2.52																																			

(1) CSA = Aluminium version (only DCV40)

CS** Spool control side A

**	Description	Drawing																				
CS5 CSA5 <i>(1)</i>	Safety handle locked in neutral position 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>200</td><td>7.87</td><td>73</td><td>2.87</td></tr><tr><td>DCV 40</td><td>220</td><td>8.66</td><td>77</td><td>3.03</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
	A		B																			
	mm	inch	mm	inch																		
DCV 20	200	7.87	73	2.87																		
DCV 40	220	8.66	77	3.03																		
CS6 CSA6 <i>(1)</i>	Safety handle locked in position “a” 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>200</td><td>7.87</td><td>73</td><td>2.87</td></tr><tr><td>DCV 40</td><td>220</td><td>8.66</td><td>77</td><td>3.03</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
	A		B																			
	mm	inch	mm	inch																		
DCV 20	200	7.87	73	2.87																		
DCV 40	220	8.66	77	3.03																		
CS7 CSA7 <i>(1)</i>	Security handle locked in position “b” 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>200</td><td>7.87</td><td>73</td><td>2.87</td></tr><tr><td>DCV 40</td><td>220</td><td>8.66</td><td>77</td><td>3.03</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
	A		B																			
	mm	inch	mm	inch																		
DCV 20	200	7.87	73	2.87																		
DCV 40	220	8.66	77	3.03																		
CS8 CSA8 <i>(1)</i>	Security handle locked in position “a” and “b” 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>200</td><td>7.87</td><td>73</td><td>2.87</td></tr><tr><td>DCV 40</td><td>220</td><td>8.66</td><td>77</td><td>3.03</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
	A		B																			
	mm	inch	mm	inch																		
DCV 20	200	7.87	73	2.87																		
DCV 40	220	8.66	77	3.03																		
CS9 CSA9 <i>(1)</i>	Security handle locked in 4th position 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>200</td><td>7.87</td><td>73</td><td>2.87</td></tr><tr><td>DCV 40</td><td>220</td><td>8.66</td><td>77</td><td>3.03</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
	A		B																			
	mm	inch	mm	inch																		
DCV 20	200	7.87	73	2.87																		
DCV 40	220	8.66	77	3.03																		
CS40 CSA40 <i>(1)</i>	Any positions detented lever 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 40</td><td>270</td><td>10.62</td><td>77</td><td>3.03</td></tr></table>		A		B			mm	inch	mm	inch	DCV 40	270	10.62	77	3.03					
	A		B																			
	mm	inch	mm	inch																		
DCV 40	270	10.62	77	3.03																		

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

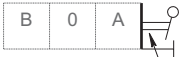
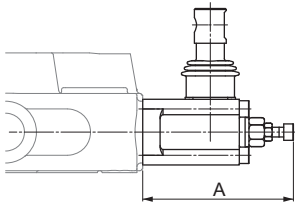
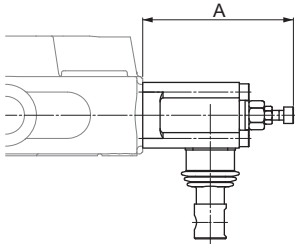
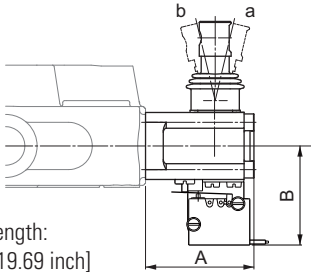
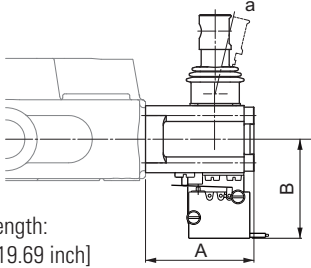
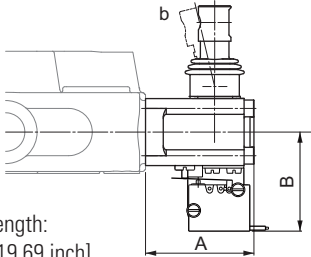
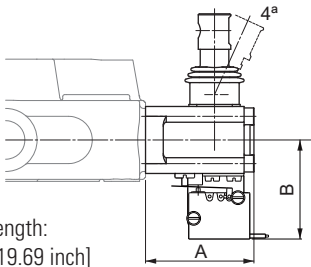
CS** Spool control side A

**	Description	Drawing																				
CS10 (CX) <i>(1)</i>	Cloche control with fulcrum on upstream section B 0 A B 0 A <td><table><tr><th></th><th colspan="2">L</th></tr><tr><th></th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td></tr></table></td>	<table><tr><th></th><th colspan="2">L</th></tr><tr><th></th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td></tr></table>		L			mm	inch	DCV 20	280	11.02	DCV 40	285	11.22								
	L																					
	mm	inch																				
DCV 20	280	11.02																				
DCV 40	285	11.22																				
CS11 (CX) <i>(1)</i>	Cloche control with fulcrum on downstream section B 0 A B 0 A <td><table><tr><th></th><th colspan="2">L</th></tr><tr><th></th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td></tr></table></td>	<table><tr><th></th><th colspan="2">L</th></tr><tr><th></th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td></tr></table>		L			mm	inch	DCV 20	280	11.02	DCV 40	285	11.22								
	L																					
	mm	inch																				
DCV 20	280	11.02																				
DCV 40	285	11.22																				
CS12 (CX) <i>(1)</i>	Cloche control with fulcrum turned 180° on the downstream section B 0 A B 0 A <td><table><tr><th></th><th colspan="2">L</th><th colspan="2">D</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td><td>20</td><td>0.79</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td><td>20</td><td>0.79</td></tr></table></td>	<table><tr><th></th><th colspan="2">L</th><th colspan="2">D</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td><td>20</td><td>0.79</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td><td>20</td><td>0.79</td></tr></table>		L		D			mm	inch	mm	inch	DCV 20	280	11.02	20	0.79	DCV 40	285	11.22	20	0.79
	L		D																			
	mm	inch	mm	inch																		
DCV 20	280	11.02	20	0.79																		
DCV 40	285	11.22	20	0.79																		
CS13 (CX) <i>(1)</i>	Cloche control with fulcrum turned 180° on the upstream section B 0 A B 0 A <td><table><tr><th></th><th colspan="2">L</th><th colspan="2">D</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td><td>20</td><td>0.79</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td><td>20</td><td>0.79</td></tr></table></td>	<table><tr><th></th><th colspan="2">L</th><th colspan="2">D</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>280</td><td>11.02</td><td>20</td><td>0.79</td></tr><tr><td>DCV 40</td><td>285</td><td>11.22</td><td>20</td><td>0.79</td></tr></table>		L		D			mm	inch	mm	inch	DCV 20	280	11.02	20	0.79	DCV 40	285	11.22	20	0.79
	L		D																			
	mm	inch	mm	inch																		
DCV 20	280	11.02	20	0.79																		
DCV 40	285	11.22	20	0.79																		
CS14 <i>(2)</i>	Flexible cable control <i>(2)</i> B 0 A <td><table><tr><th></th><th colspan="2">A</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>104</td><td>4.09</td><td>(2)</td><td>(2)</td></tr><tr><td>DCV 40</td><td>106</td><td>4.17</td><td>(2)</td><td>(2)</td></tr></table></td>	<table><tr><th></th><th colspan="2">A</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>104</td><td>4.09</td><td>(2)</td><td>(2)</td></tr><tr><td>DCV 40</td><td>106</td><td>4.17</td><td>(2)</td><td>(2)</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	104	4.09	(2)	(2)	DCV 40	106	4.17	(2)	(2)
	A		B																			
	mm	inch	mm	inch																		
DCV 20	104	4.09	(2)	(2)																		
DCV 40	106	4.17	(2)	(2)																		

(1) **(CX)** code required to use on 2th section

(2) Cable supplied on request. Length cable and control, contact our commercial dept

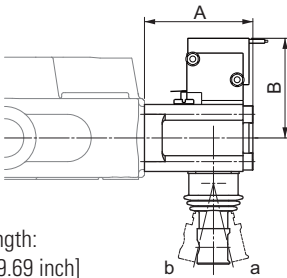
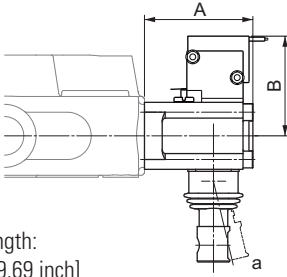
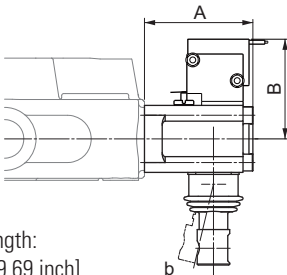
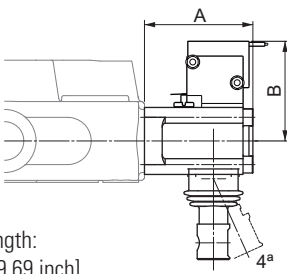
CS** *Spool control side A*

**	Description	Drawing																																				
CS15 CSA15 <i>(1)</i>	Spool stroke adjustment in “b” 	 <table><tr><td></td><td colspan="2">A</td></tr><tr><td></td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>78</td><td>3.07</td></tr><tr><td>DCV 40</td><td>83.5</td><td>3.28</td></tr></table>		A			mm	inch	DCV 20	78	3.07	DCV 40	83.5	3.28																								
	A																																					
	mm	inch																																				
DCV 20	78	3.07																																				
DCV 40	83.5	3.28																																				
CS16 CSA16 <i>(1)</i>	Spool stroke adjustment in “b”, handle at 180° 	 <table><tr><td></td><td colspan="2">A</td></tr><tr><td></td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>78</td><td>3.07</td></tr><tr><td>DCV 40</td><td>83.5</td><td>3.28</td></tr></table>		A			mm	inch	DCV 20	78	3.07	DCV 40	83.5	3.28																								
	A																																					
	mm	inch																																				
DCV 20	78	3.07																																				
DCV 40	83.5	3.28																																				
CS17 CSA17 <i>(1)</i>	Standard handle with microswitch in “a” and “b” Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">CS17</td><td colspan="2">A</td><td colspan="2">CSA17</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></table>		CS17		A		CSA17		B			mm	inch	mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	67.5	2.66	51.5	2.03
	CS17		A		CSA17		B																															
	mm	inch	mm	inch	mm	inch	mm	inch																														
DCV 20	55	2.17	—	—	—	—	50.5	1.99																														
DCV 40	62.5	2.46	67.5	2.66	67.5	2.66	51.5	2.03																														
CS18 CSA18 <i>(1)</i>	Standard handle with microswitch in “a” Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">CS18</td><td colspan="2">A</td><td colspan="2">CSA18</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></table>		CS18		A		CSA18		B			mm	inch	mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	67.5	2.66	51.5	2.03
	CS18		A		CSA18		B																															
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CS19 CSA19 <i>(1)</i>	Standard handle with microswitch in “b” Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">CS19</td><td colspan="2">A</td><td colspan="2">CSA19</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></table>		CS19		A		CSA19		B			mm	inch	mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	67.5	2.66	51.5	2.03
	CS19		A		CSA19		B																															
	mm	inch	mm	inch	mm	inch	mm	inch																														
DCV 20	55	2.17	—	—	—	—	50.5	1.99																														
DCV 40	62.5	2.46	67.5	2.66	67.5	2.66	51.5	2.03																														
CS20 CSA20 <i>(1)</i>	Standard handle with microswitch in 4th position Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">CS20</td><td colspan="2">A</td><td colspan="2">CSA20</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></table>		CS20		A		CSA20		B			mm	inch	mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	67.5	2.66	51.5	2.03
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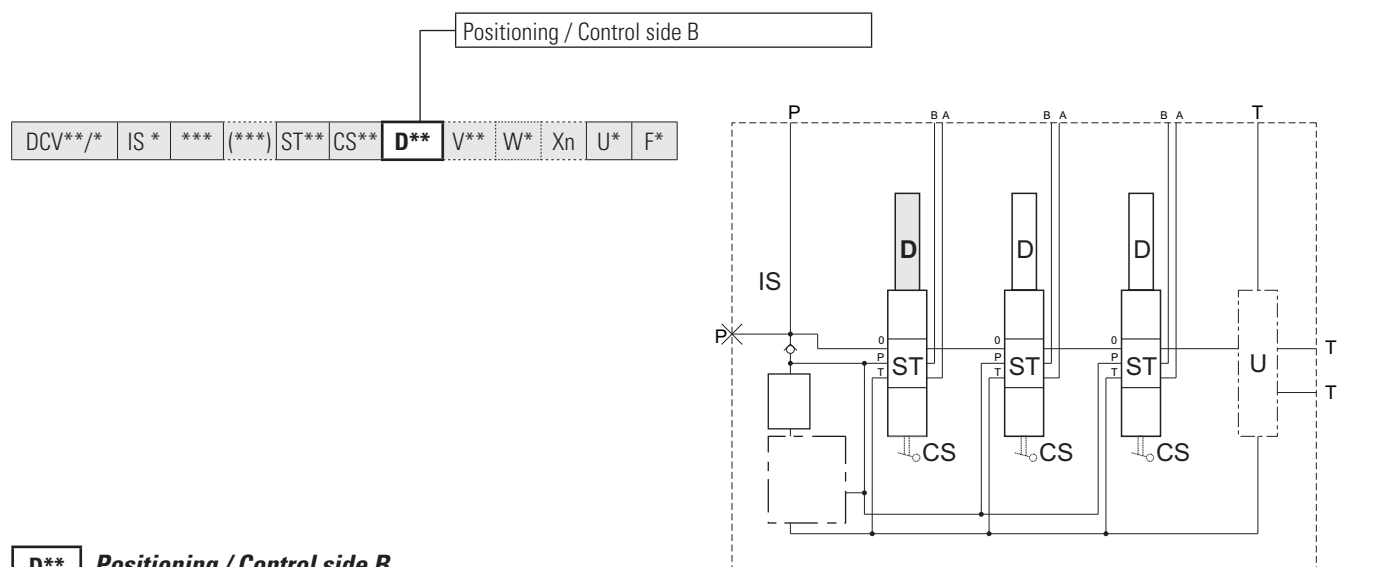
(1) **CSA** = Aluminium version (only DCV40)

CS** Spool control side A

MONOBLOCK

**	Description	Drawing																												
CS21 CSA21 <i>(1)</i>	Handle 180° with microswitch in “a” and “b” Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C B 0 A  Cable length: 50 cm [19.69 inch]	 <table><thead><tr><th></th><th colspan="2">CS21</th><th colspan="2">CSA21</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr></thead><tbody><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></tbody></table>		CS21		CSA21		B			mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	51.5	2.03
	CS21		CSA21		B																									
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DCV 20	55	2.17	—	—	50.5	1.99																								
DCV 40	62.5	2.46	67.5	2.66	51.5	2.03																								
CS22 CSA22 <i>(1)</i>	Handle 180° with microswitch in “a” Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C B 0 A  Cable length: 50 cm [19.69 inch]	 <table><thead><tr><th></th><th colspan="2">CS22</th><th colspan="2">CSA22</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr></thead><tbody><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></tbody></table>		CS22		CSA22		B			mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	51.5	2.03
	CS22		CSA22		B																									
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DCV 20	55	2.17	—	—	50.5	1.99																								
DCV 40	62.5	2.46	67.5	2.66	51.5	2.03																								
CS23 CSA23 <i>(1)</i>	Handle 180° with microswitch in “b” Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C B 0 A  Cable length: 50 cm [19.69 inch]	 <table><thead><tr><th></th><th colspan="2">CS23</th><th colspan="2">CSA23</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr></thead><tbody><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></tbody></table>		CS23		CSA23		B			mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	51.5	2.03
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DCV 20	55	2.17	—	—	50.5	1.99																								
DCV 40	62.5	2.46	67.5	2.66	51.5	2.03																								
CS24 CSA24 <i>(1)</i>	Handle 180° with microswitch in 4th position Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C B 0 A 4  Cable length: 50 cm [19.69 inch]	 <table><thead><tr><th></th><th colspan="2">CS24</th><th colspan="2">CSA24</th><th colspan="2">B</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr></thead><tbody><tr><td>DCV 20</td><td>55</td><td>2.17</td><td>—</td><td>—</td><td>50.5</td><td>1.99</td></tr><tr><td>DCV 40</td><td>62.5</td><td>2.46</td><td>67.5</td><td>2.66</td><td>51.5</td><td>2.03</td></tr></tbody></table>		CS24		CSA24		B			mm	inch	mm	inch	mm	inch	DCV 20	55	2.17	—	—	50.5	1.99	DCV 40	62.5	2.46	67.5	2.66	51.5	2.03
	CS24		CSA24		B																									
	mm	inch	mm	inch	mm	inch																								
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(1) **CSA** = Aluminium version (only DCV40)

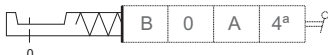
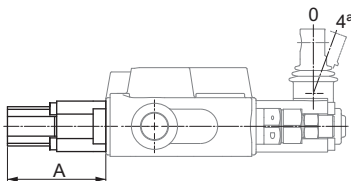
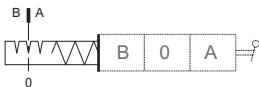
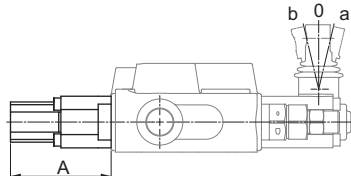
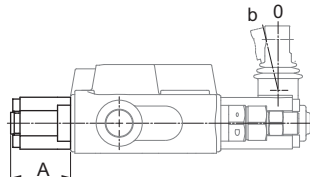
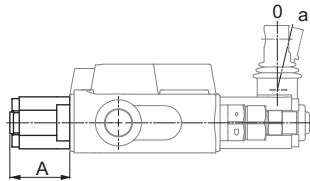
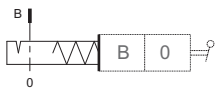
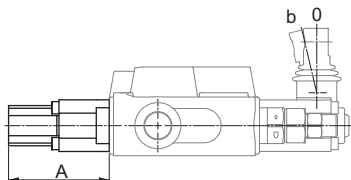
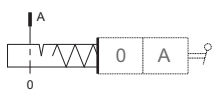
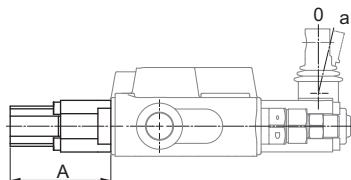
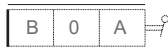
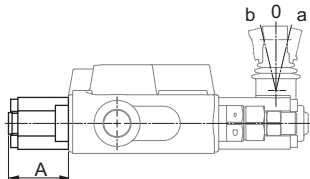


D** Positioning / Control side B

**	Description	Drawing																														
D1 DA1 <i>(1)</i>	3 positions, spring centred spool			<table><tr><td></td><td colspan="2">A</td><td colspan="2"></td></tr><tr><td></td><td>D1</td><td></td><td>DA1</td><td></td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>36.5</td><td>1.03</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>41.5</td><td>1.63</td><td>42</td><td>1.65</td></tr></table>					A					D1		DA1			mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	DCV 40	41.5	1.63	42	1.65
				A																												
	D1		DA1																													
	mm	inch	mm	inch																												
DCV 20	36.5	1.03	—	—																												
DCV 40	41.5	1.63	42	1.65																												
D2 DA2 <i>(1)</i>	3 positions, spring centred spool, detent in "a" and "b"			<table><tr><td></td><td colspan="2">A</td><td colspan="2"></td></tr><tr><td></td><td>D2</td><td></td><td>DA2</td><td></td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>					A					D2		DA2			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
				A																												
	D2		DA2																													
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DCV 20	60	2.36	—	—																												
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D3 DA3 <i>(1)</i>	3 positions, spring centred spool, detent in "a"			<table><tr><td></td><td colspan="2">A</td><td colspan="2"></td></tr><tr><td></td><td>D3</td><td></td><td>DA3</td><td></td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>					A					D3		DA3			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
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DCV 20	60	2.36	—	—																												
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D4 DA4 <i>(1)</i>	3 positions, spring centred spool, detent in "b"			<table><tr><td></td><td colspan="2">A</td><td colspan="2"></td></tr><tr><td></td><td>D4</td><td></td><td>DA4</td><td></td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>					A					D4		DA4			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
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D5 DA5 <i>(1)</i>	4 positions, spring centred spool, detent in 4th position			<table><tr><td></td><td colspan="2">A</td><td colspan="2"></td></tr><tr><td></td><td>D5</td><td></td><td>DA5</td><td></td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>					A					D5		DA5			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
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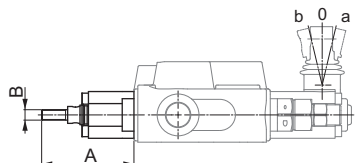
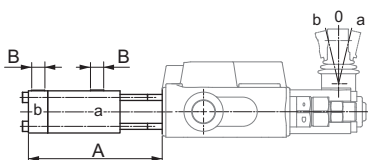
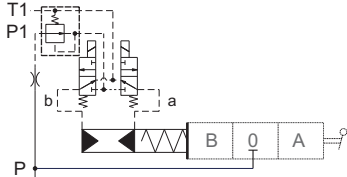
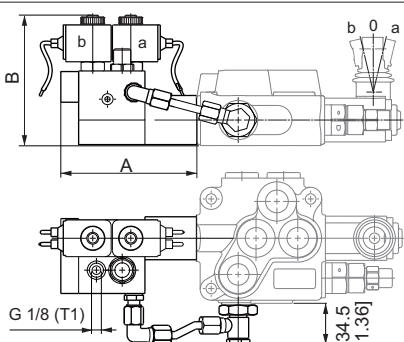
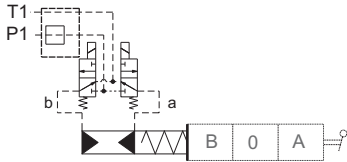
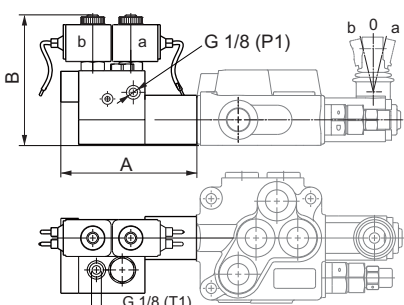
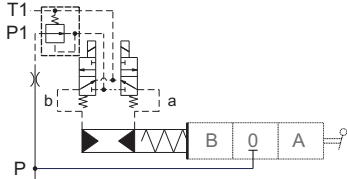
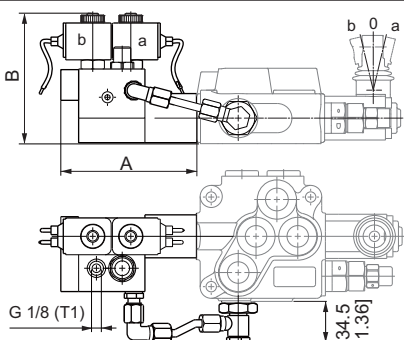
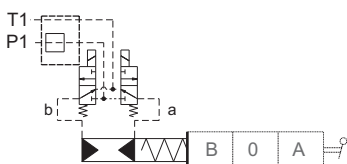
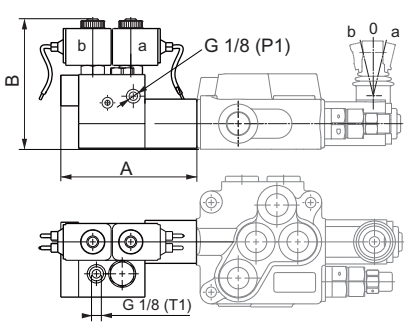
(1) **DA** = Aluminium version (only DCV40)

D** Positioning / Control side B

**	Description	Drawing																					
D6 DA6 (1)	4 positions, spring centred spool, sensitive 4th position, without detent 		<table><tr><th></th><th colspan="2">D6</th><th colspan="2">DA6</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>		D6		DA6			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
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DCV 40	72.5	2.85	72.5	2.85																			
D7 DA7 (1)	3 positions, spring centred spool, detent in "a" - "0" - "b" 		<table><tr><th></th><th colspan="2">D7</th><th colspan="2">DA7</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>		D7		DA7			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
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DCV 40	72.5	2.85	72.5	2.85																			
D8 DA8 (1)	2 positions ("0" - "b"), spring centred spool 		<table><tr><th></th><th colspan="2">D8</th><th colspan="2">DA8</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>36.5</td><td>1.03</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>41.5</td><td>1.63</td><td>42</td><td>1.65</td></tr></table>		D8		DA8			mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	DCV 40	41.5	1.63	42	1.65
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DCV 20	36.5	1.03	—	—																			
DCV 40	41.5	1.63	42	1.65																			
D9 DA9 (1)	2 positions ("0" - "a"), spring centred spool 		<table><tr><th></th><th colspan="2">D9</th><th colspan="2">DA9</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>36.5</td><td>1.03</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>41.5</td><td>1.63</td><td>42</td><td>1.65</td></tr></table>		D9		DA9			mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	DCV 40	41.5	1.63	42	1.65
	D9		DA9																				
	mm	inch	mm	inch																			
DCV 20	36.5	1.03	—	—																			
DCV 40	41.5	1.63	42	1.65																			
D10 DA10 (1)	2 positions ("0" - "b"), spring centred spool, detent in "b" 		<table><tr><th></th><th colspan="2">D10</th><th colspan="2">DA10</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>		D10		DA10			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
	D10		DA10																				
	mm	inch	mm	inch																			
DCV 20	60	2.36	—	—																			
DCV 40	72.5	2.85	72.5	2.85																			
D11 DA11 (1)	2 positions ("0" - "a"), spring centred spool, detent in "a" 		<table><tr><th></th><th colspan="2">D11</th><th colspan="2">DA11</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>60</td><td>2.36</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>72.5</td><td>2.85</td></tr></table>		D11		DA11			mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
	D11		DA11																				
	mm	inch	mm	inch																			
DCV 20	60	2.36	—	—																			
DCV 40	72.5	2.85	72.5	2.85																			
D12 DA12 (1)	3 positions free (without spring) 		<table><tr><th></th><th colspan="2">D12</th><th colspan="2">DA12</th></tr><tr><th></th><th>mm</th><th>inch</th><th>mm</th><th>inch</th></tr><tr><td>DCV 20</td><td>36.5</td><td>1.03</td><td>—</td><td>—</td></tr><tr><td>DCV 40</td><td>41.5</td><td>1.63</td><td>42</td><td>1.65</td></tr></table>		D12		DA12			mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	DCV 40	41.5	1.63	42	1.65
	D12		DA12																				
	mm	inch	mm	inch																			
DCV 20	36.5	1.03	—	—																			
DCV 40	41.5	1.63	42	1.65																			

(1) **DA** = Aluminium version (only DCV40)

D** Positioning / Control side B

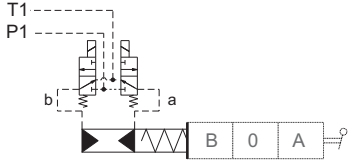
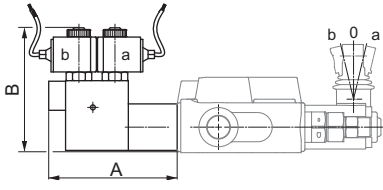
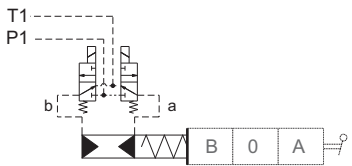
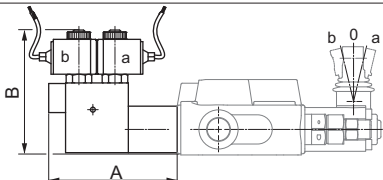
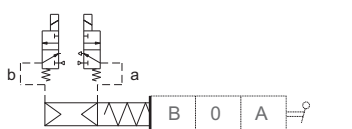
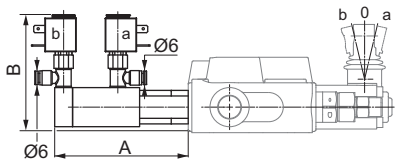
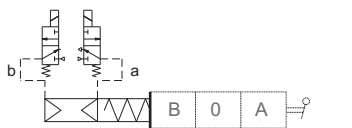
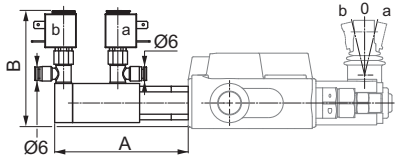
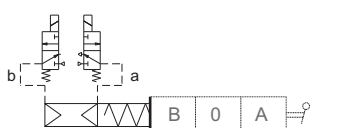
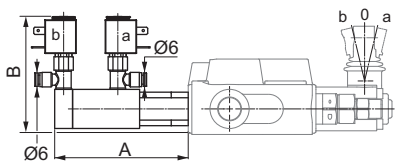
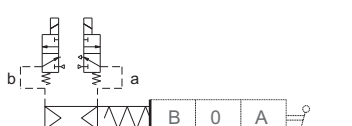
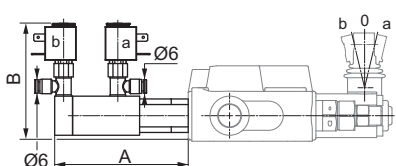
**	Description	Drawing												
D13 DA13 (1)	Prearranged for double control 													
			A		B									
			mm	inch										
			DCV 20	58	2.28	M6								
			DCV 40	71	2.80	M8								
D14	ON-OFF pneumatic control - Pilot pressure 5-10 bar 72.5-145 psi 													
			A		B									
			mm	inch										
			DCV 20	111	4.37	1/8" BSP								
			DCV 40	119.5	4.70	1/8" BSP								
D15 (2)	Electrohydraulic ON-OFF control. Voltage 12Vdc with pressure reducing valve - Pilot pressure 20 bar 290 psi 													
			A		B									
			mm	inch	mm	inch								
			DCV 20	91	3.58	104.5	4.11							
			DCV 40	96	3.78	106.5	4.19							
			<table><tr><td>Connector</td><td>wires 30 cm</td></tr><tr><td>Protection degree</td><td>IP65</td></tr><tr><td>Ambient temperature</td><td>-30 +60 °C</td></tr><tr><td>Nominal power</td><td>10 W</td></tr></table>				Connector	wires 30 cm	Protection degree	IP65	Ambient temperature	-30 +60 °C	Nominal power	10 W
Connector	wires 30 cm													
Protection degree	IP65													
Ambient temperature	-30 +60 °C													
Nominal power	10 W													
D16 (2)	Electrohydraulic ON-OFF control. Voltage 12Vdc without pressure reducing valve - Pilot pressure 20 bar 290 psi 													
			A		B									
			mm	inch	mm	inch								
			DCV 20	91	3.58	104.5	4.11							
			DCV 40	96	3.78	106.5	4.19							
			<table><tr><td>Connector</td><td>wires 30 cm</td></tr><tr><td>Protection degree</td><td>IP65</td></tr><tr><td>Ambient temperature</td><td>-30 +60 °C</td></tr><tr><td>Nominal power</td><td>10 W</td></tr></table>				Connector	wires 30 cm	Protection degree	IP65	Ambient temperature	-30 +60 °C	Nominal power	10 W
Connector	wires 30 cm													
Protection degree	IP65													
Ambient temperature	-30 +60 °C													
Nominal power	10 W													
D17 (2)	Electrohydraulic ON-OFF control. Voltage 24Vdc with pressure reducing valve - Pilot pressure 20 bar 290 psi 													
			A		B									
			mm	inch	mm	inch								
			DCV 20	91	3.58	104.5	4.11							
			DCV 40	96	3.78	106.5	4.19							
			<table><tr><td>Connector</td><td>wires 30 cm</td></tr><tr><td>Protection degree</td><td>IP65</td></tr><tr><td>Ambient temperature</td><td>-30 +60 °C</td></tr><tr><td>Nominal power</td><td>10 W</td></tr></table>				Connector	wires 30 cm	Protection degree	IP65	Ambient temperature	-30 +60 °C	Nominal power	10 W
Connector	wires 30 cm													
Protection degree	IP65													
Ambient temperature	-30 +60 °C													
Nominal power	10 W													
D18 (2)	Electrohydraulic ON-OFF control. Voltage 24Vdc without pressure reducing valve - Pilot pressure 20 bar 290 psi 													
			A		B									
			mm	inch	mm	inch								
			DCV 20	91	3.58	104.5	4.11							
			DCV 40	96	3.78	106.5	4.19							
			<table><tr><td>Connector</td><td>wires 30 cm</td></tr><tr><td>Protection degree</td><td>IP65</td></tr><tr><td>Ambient temperature</td><td>-30 +60 °C</td></tr><tr><td>Nominal power</td><td>10 W</td></tr></table>				Connector	wires 30 cm	Protection degree	IP65	Ambient temperature	-30 +60 °C	Nominal power	10 W
Connector	wires 30 cm													
Protection degree	IP65													
Ambient temperature	-30 +60 °C													
Nominal power	10 W													

(1) DA = Aluminium version (only DCV40)

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

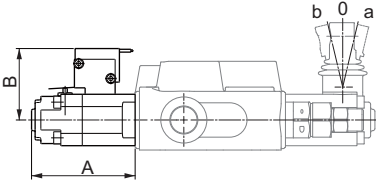
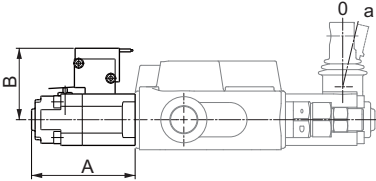
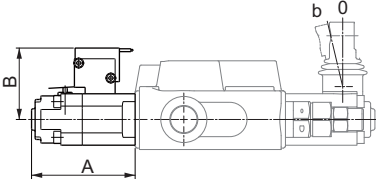
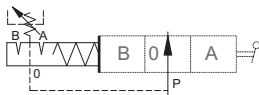
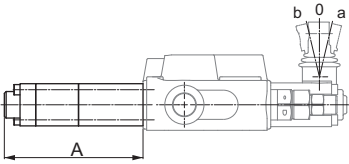
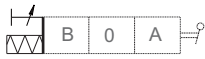
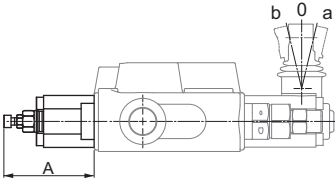
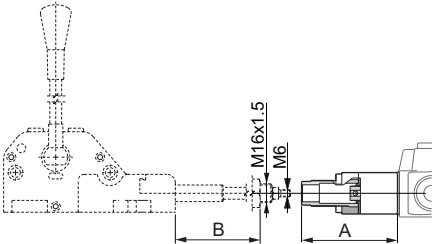
For proper operation it is required a pressure of 8 bar (116 psi) measured at the input P or P1.

D** Positioning / Control side B

**	Description	Drawing																								
D19 (3)	Electrohydraulic ON-OFF control. Voltage 12Vdc - Pilot pressure 20 bar 290 psi 		<table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>91</td><td>3.58</td><td>104.5</td><td>4.11</td></tr><tr><td>DCV 40</td><td>96</td><td>3.78</td><td>106.5</td><td>4.19</td></tr></table>					A		B			mm	inch	mm	inch	DCV 20	91	3.58	104.5	4.11	DCV 40	96	3.78	106.5	4.19
			A		B																					
			mm	inch	mm	inch																				
DCV 20	91	3.58	104.5	4.11																						
DCV 40	96	3.78	106.5	4.19																						
<table><tr><td>Connector</td><td colspan="4">wires 30 cm</td></tr><tr><td>Protection degree</td><td colspan="4">IP65</td></tr><tr><td>Ambient temperature</td><td colspan="4">-30 +60 °C</td></tr><tr><td>Nominal power</td><td colspan="4">10 W</td></tr></table>				Connector	wires 30 cm				Protection degree	IP65				Ambient temperature	-30 +60 °C				Nominal power	10 W						
Connector	wires 30 cm																									
Protection degree	IP65																									
Ambient temperature	-30 +60 °C																									
Nominal power	10 W																									
D20 (3)	Electrohydraulic ON-OFF control. Voltage 24Vdc - Pilot pressure 20 bar 290 psi 		<table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>91</td><td>3.58</td><td>104.5</td><td>4.11</td></tr><tr><td>DCV 40</td><td>96</td><td>3.78</td><td>106.5</td><td>4.19</td></tr></table>					A		B			mm	inch	mm	inch	DCV 20	91	3.58	104.5	4.11	DCV 40	96	3.78	106.5	4.19
			A		B																					
			mm	inch	mm	inch																				
DCV 20	91	3.58	104.5	4.11																						
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<table><tr><td>Connector</td><td colspan="4">wires 30 cm</td></tr><tr><td>Protection degree</td><td colspan="4">IP65</td></tr><tr><td>Ambient temperature</td><td colspan="4">-30 +60 °C</td></tr><tr><td>Nominal power</td><td colspan="4">10 W</td></tr></table>				Connector	wires 30 cm				Protection degree	IP65				Ambient temperature	-30 +60 °C				Nominal power	10 W						
Connector	wires 30 cm																									
Protection degree	IP65																									
Ambient temperature	-30 +60 °C																									
Nominal power	10 W																									
D21	ON-OFF electro pneumatic control. Voltage 12Vdc - Pilot pressure 5-10 bar 72.5-145 psi 		<table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>111</td><td>4.37</td><td>101.5</td><td>4.00</td></tr><tr><td>DCV 40</td><td>119.5</td><td>4.70</td><td>103.5</td><td>4.07</td></tr></table>					A		B			mm	inch	mm	inch	DCV 20	111	4.37	101.5	4.00	DCV 40	119.5	4.70	103.5	4.07
			A		B																					
			mm	inch	mm	inch																				
DCV 20	111	4.37	101.5	4.00																						
DCV 40	119.5	4.70	103.5	4.07																						
<table><tr><td>Connector</td><td colspan="4">DIN 43650-B ISO6952</td></tr><tr><td>Protection degree</td><td colspan="4">IP65</td></tr><tr><td>Ambient temperature</td><td colspan="4">-20 +40 °C</td></tr><tr><td>Nominal power</td><td colspan="4">8 W</td></tr></table>				Connector	DIN 43650-B ISO6952				Protection degree	IP65				Ambient temperature	-20 +40 °C				Nominal power	8 W						
Connector	DIN 43650-B ISO6952																									
Protection degree	IP65																									
Ambient temperature	-20 +40 °C																									
Nominal power	8 W																									
D22	ON-OFF electro pneumatic control. Voltage 24Vdc - Pilot pressure 5-10 bar 72.5-145 psi 		<table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>111</td><td>4.37</td><td>101.5</td><td>4.00</td></tr><tr><td>DCV 40</td><td>119.5</td><td>4.70</td><td>103.5</td><td>4.07</td></tr></table>					A		B			mm	inch	mm	inch	DCV 20	111	4.37	101.5	4.00	DCV 40	119.5	4.70	103.5	4.07
			A		B																					
			mm	inch	mm	inch																				
DCV 20	111	4.37	101.5	4.00																						
DCV 40	119.5	4.70	103.5	4.07																						
<table><tr><td>Connector</td><td colspan="4">DIN 43650-B ISO6952</td></tr><tr><td>Protection degree</td><td colspan="4">IP65</td></tr><tr><td>Ambient temperature</td><td colspan="4">-20 +40 °C</td></tr><tr><td>Nominal power</td><td colspan="4">8 W</td></tr></table>				Connector	DIN 43650-B ISO6952				Protection degree	IP65				Ambient temperature	-20 +40 °C				Nominal power	8 W						
Connector	DIN 43650-B ISO6952																									
Protection degree	IP65																									
Ambient temperature	-20 +40 °C																									
Nominal power	8 W																									
D23	ON-OFF electro pneumatic control. Voltage 26Vdc - Pilot pressure 5-10 bar 72.5-145 psi 		<table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>111</td><td>4.37</td><td>101.5</td><td>4.00</td></tr><tr><td>DCV 40</td><td>119.5</td><td>4.70</td><td>103.5</td><td>4.07</td></tr></table>					A		B			mm	inch	mm	inch	DCV 20	111	4.37	101.5	4.00	DCV 40	119.5	4.70	103.5	4.07
			A		B																					
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DCV 40	119.5	4.70	103.5	4.07																						
<table><tr><td>Connector</td><td colspan="4">DIN 43650-B ISO6952</td></tr><tr><td>Protection degree</td><td colspan="4">IP65</td></tr><tr><td>Ambient temperature</td><td colspan="4">-20 +40 °C</td></tr><tr><td>Nominal power</td><td colspan="4">8 W</td></tr></table>				Connector	DIN 43650-B ISO6952				Protection degree	IP65				Ambient temperature	-20 +40 °C				Nominal power	8 W						
Connector	DIN 43650-B ISO6952																									
Protection degree	IP65																									
Ambient temperature	-20 +40 °C																									
Nominal power	8 W																									
D24	ON-OFF electro pneumatic control. Voltage 28Vdc - Pilot pressure 5-10 bar 72.5-145 psi 		<table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>111</td><td>4.37</td><td>101.5</td><td>4.00</td></tr><tr><td>DCV 40</td><td>119.5</td><td>4.70</td><td>103.5</td><td>4.07</td></tr></table>					A		B			mm	inch	mm	inch	DCV 20	111	4.37	101.5	4.00	DCV 40	119.5	4.70	103.5	4.07
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Connector	DIN 43650-B ISO6952																									
Protection degree	IP65																									
Ambient temperature	-20 +40 °C																									
Nominal power	8 W																									

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

D** Positioning / Control side B

**	Description	Drawing																				
D25 DA25 (1)	Micro-switch in "a" and "b" Protection degree: IP67 Nominal power: 0.1 ÷ 10 A / 250VAC Minimum power: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>50</td><td>1.97</td></tr></table>		A		B			mm	inch	mm	inch	DCV 40	72.5	2.85	50	1.97					
	A		B																			
	mm	inch	mm	inch																		
DCV 40	72.5	2.85	50	1.97																		
D26 DA26 (1)	Micro-switch in "a" Protection degree: IP67 Nominal power: 0.1 ÷ 10 A / 250VAC Minimum power: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>50</td><td>1.97</td></tr></table>		A		B			mm	inch	mm	inch	DCV 40	72.5	2.85	50	1.97					
	A		B																			
	mm	inch	mm	inch																		
DCV 40	72.5	2.85	50	1.97																		
D27 DA27 (1)	Micro-switch in "b" Protection degree: IP67 Nominal power: 0.1 ÷ 10 A / 250VAC Minimum power: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C 	 Cable length: 50 cm [19.69 inch] <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 40</td><td>72.5</td><td>2.85</td><td>50</td><td>1.97</td></tr></table>		A		B			mm	inch	mm	inch	DCV 40	72.5	2.85	50	1.97					
	A		B																			
	mm	inch	mm	inch																		
DCV 40	72.5	2.85	50	1.97																		
D29	Detent with adjustable automatic hydraulic release in "a" and "b" 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 40</td><td>70</td><td>2.76</td><td>50</td><td>1.97</td></tr></table>		A		B			mm	inch	mm	inch	DCV 40	70	2.76	50	1.97					
	A		B																			
	mm	inch	mm	inch																		
DCV 40	70	2.76	50	1.97																		
D30 DA30 (1)	Spool stroke adjustment in "a" 	 <table><tr><td></td><td colspan="2">A</td></tr><tr><td></td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>57</td><td>2.24</td></tr><tr><td>DCV 40</td><td>62</td><td>2.44</td></tr></table>		A			mm	inch	DCV 20	57	2.24	DCV 40	62	2.44								
	A																					
	mm	inch																				
DCV 20	57	2.24																				
DCV 40	62	2.44																				
D40 (2)	Flexible cable control (2) 	 <table><tr><td></td><td colspan="2">A</td><td colspan="2">B</td></tr><tr><td></td><td>mm</td><td>inch</td><td>mm</td><td>inch</td></tr><tr><td>DCV 20</td><td>81</td><td>3.19</td><td>(2)</td><td>(2)</td></tr><tr><td>DCV 40</td><td>93</td><td>3.66</td><td>(2)</td><td>(2)</td></tr></table>		A		B			mm	inch	mm	inch	DCV 20	81	3.19	(2)	(2)	DCV 40	93	3.66	(2)	(2)
	A		B																			
	mm	inch	mm	inch																		
DCV 20	81	3.19	(2)	(2)																		
DCV 40	93	3.66	(2)	(2)																		

(1) **DA** = Aluminium version (only DCV40)

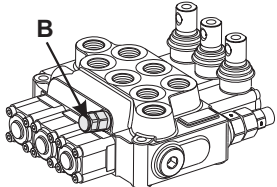
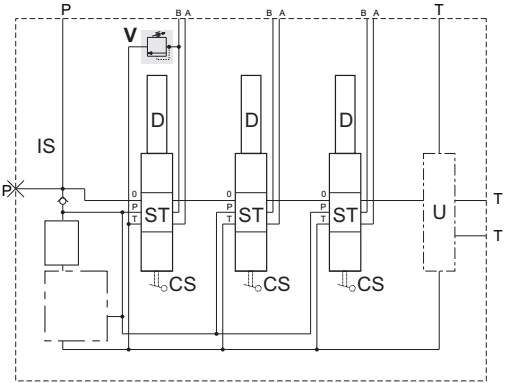
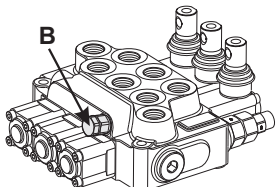
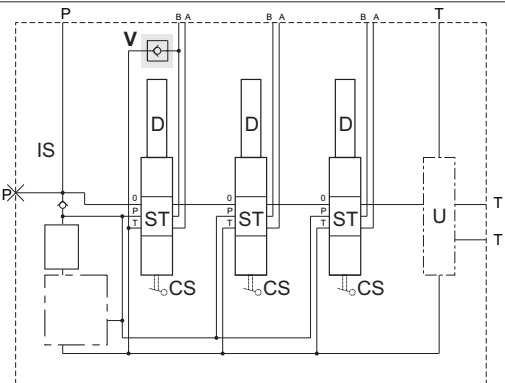
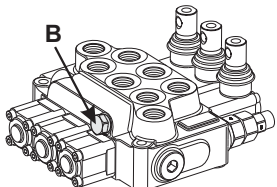
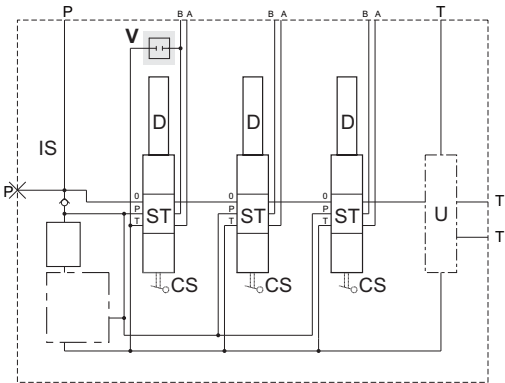
(2) Cable supplied on request. Length cable and control, contact our commercial dept

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

**	Description	Drawing
VB1 (***) (1)/(2)	Overload valve in position "B"	 
VB2 (2) (3)	Anti-cavitation valve in "B"	 
VB4 (2)	Prearranged for ausiliary valve in "B" with plug	 

(1) Specify the relief valve setting (from 20 to 350 bar). During the order it is suggested to specify the flow rate.

(2) For service port valves or prearranged for port valve with plug in "A" and/or "B" port please contact our commercial department.

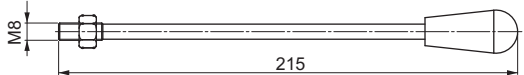
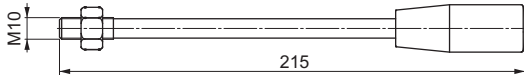
(3) Only for DCV20

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	

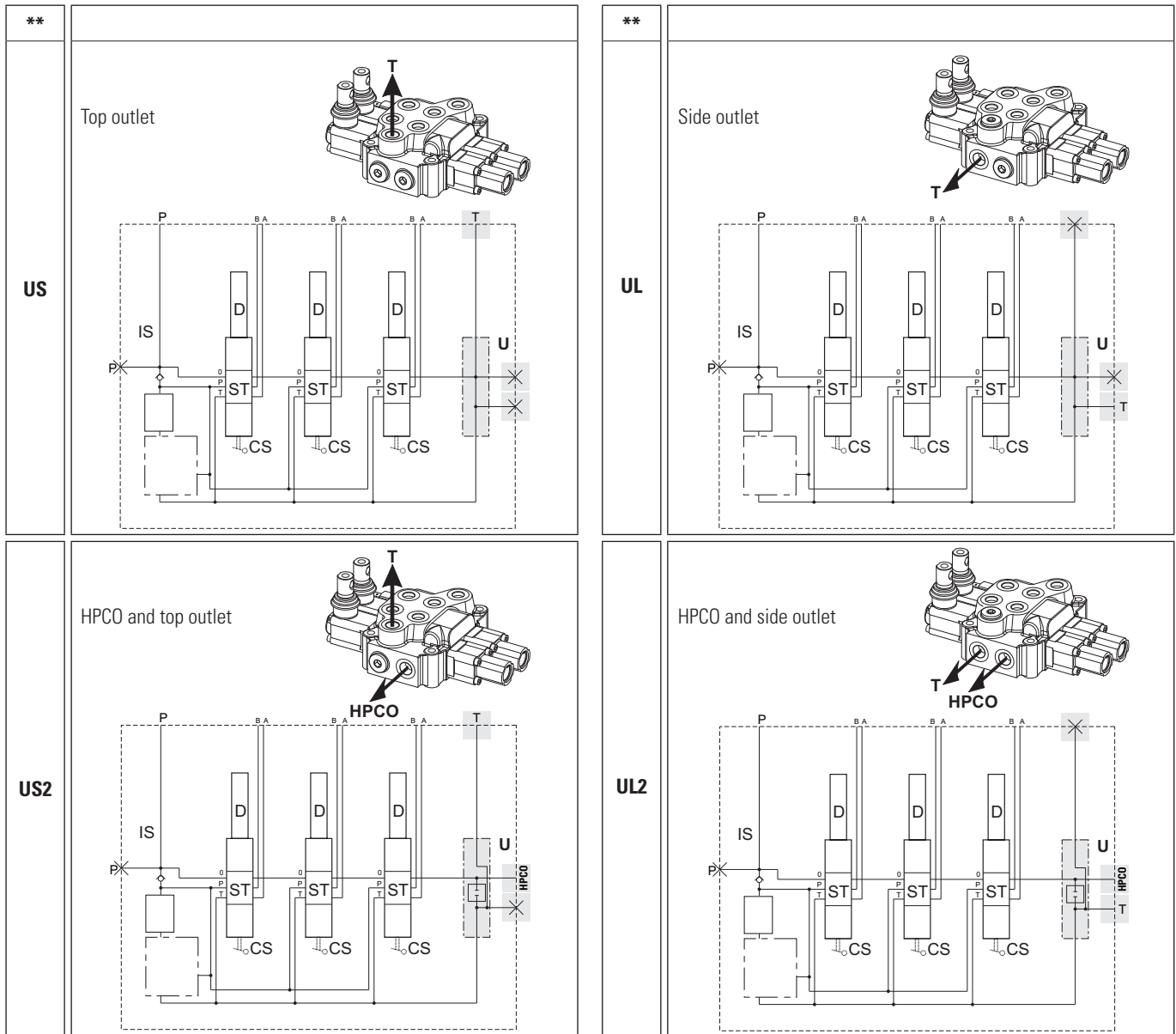
Outlet sections



Outlet

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

U* Outlet



MONOBLOCK

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	•	• ⁽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⁾ Threads availables on request



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Code DOC00066 - Rev. 03

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