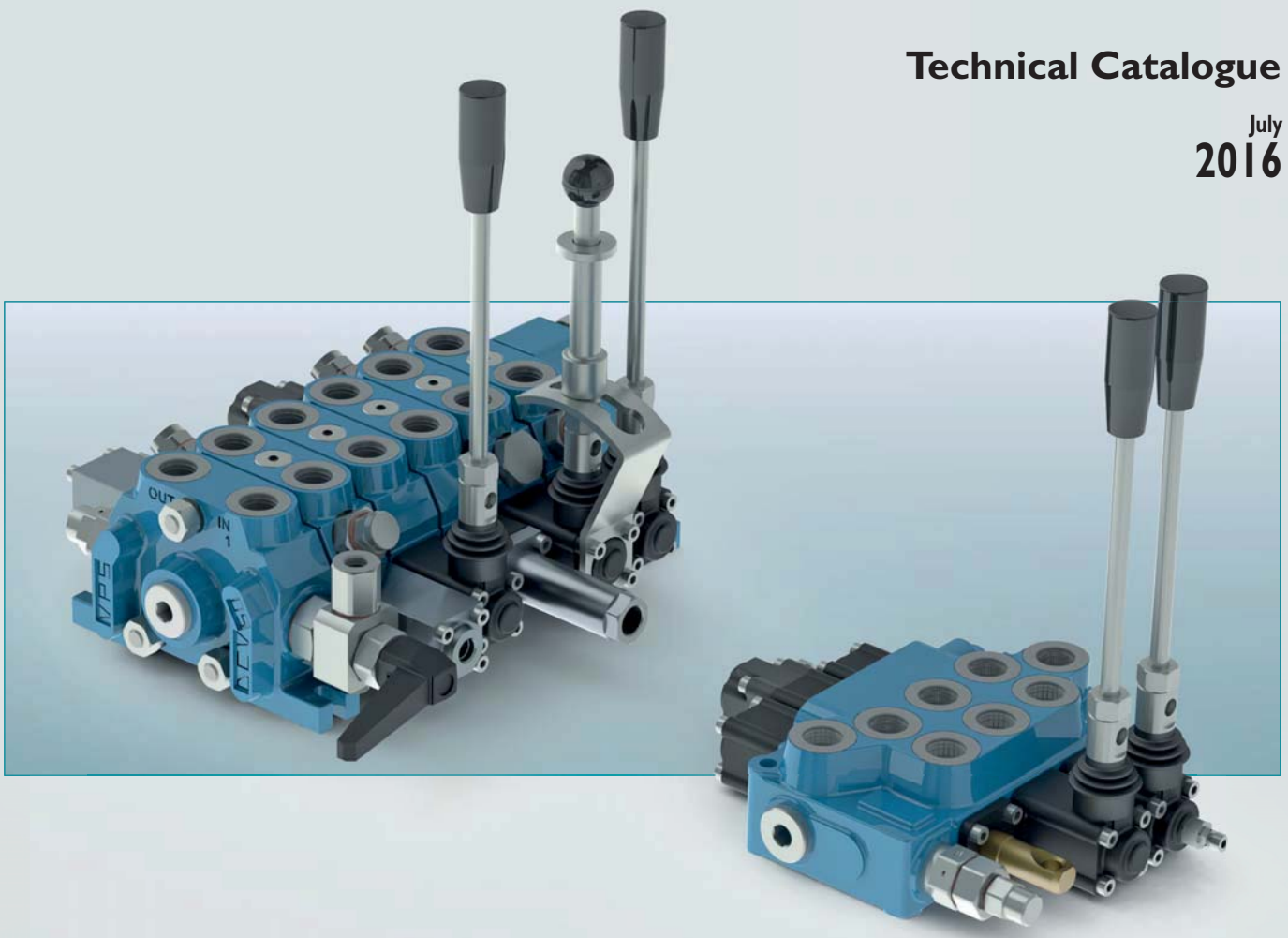


DCV MONOBLOCK AND MODULAR VALVES

Technical Catalogue

July
2016





The company

Brevini Fluid Power, part of the Brevini group, was established in 2003 in Reggio Emilia where it has its head office. Brevini Fluid Power manufactures hydraulic components and application packages: a very large range suited to several operational requirements and applications thanks to a strict interaction between mechanical, hydraulic and electronic components. Brevini Fluid Power is among the top manufacturers in Italy and a major player in Europe and in the world.

International presence

Brevini Fluid Power operates internationally with 15 branches all over the world placed in major industrialized countries: Italy, France, Germany, English, Romania, Holland, Finland, China, India, Singapore and the United States. The network is constantly expanding by opening new branches in just a few years.

The branches are guided by managers that have an excellent knowledge of their own country.

The advantages this brings are evident:

- Reduced delivery times thanks to the branches warehouses;
- Easy customization of products and systems basing on the customer's needs, thanks to the competence and professional skills of the branches' own technical and servicing departments;
- Quick servicing;
- A ready sales staff at hand and closer to the customers, which ensures high flexibility plus experience.

The production facilities are located throughout Reggio Emilia, Ozzano Emilia (BO), Noceto (PR), Novellara (RE), Yancheng (province of Jiangsu, China) which was inaugurated in 2009 and became operative since 2010.

Competitive Strategy

Innovation combined with the focus on customers is the strength of the Brevini Fluid Power "brand", born from the forty-year-long experiences of Aron, Hydr-App, SAM Hydraulik, Oleodinamica Reggiana, VPS Brevini and Brevini Hydraulics.

Brevini Fluid Power proposes itself as a "local hub", as it happened to BPE Electronics in 2008 and OT Oiltechnology in 2009, in order to create a new Made in Italy global player in the world of hydraulics, increasingly more integrated with electronics.

The purpose is still the development of a very large range of products forming together integrated packages able to meet various application needs. Our ten-year-long partnership relations with hundreds of customers all over the world are the best synthesis of Brevini Fluid Power's operational philosophy.

Sharing of know-how and several experiences have made Brevini Fluid Power a more global company, more incisive in international markets and closer to its customers.

Product lines

The product lines are numerous and well-structured aimed to cover every needs: a strong basis on which to develop the engineering of application packages and complete systems. The offer is improving in the direction of a solution supplier often developed in co-design with the customer, both for the mobile and industrial sector.

Hydr-App Product Line: Hydraulic power packs and mini hydraulic packs (whether standard or customised), cartridge valves and solenoid valves, gear boxes and transmission components.

S.A.M. Hydraulik Product Line: Axial piston pumps and motors for medium and high pressure, orbital motors.

Aron Product Line: Directional, flow, on-off and proportional pressure control valves. Modular and cartridge valves, subplates and blocks.

Brevini Hydraulics Product Line: Proportional directional valves, joysticks and electronic modules.

BPE Electronics Product Line: Sensors, load cells, boards and electronic controls via CAN, display units, planarity indicators.

VPS Brevini Product Line: Mono-block and modular mobile valves.

OT Oiltechnology Product Line: Gear pumps and motors, flow dividers.

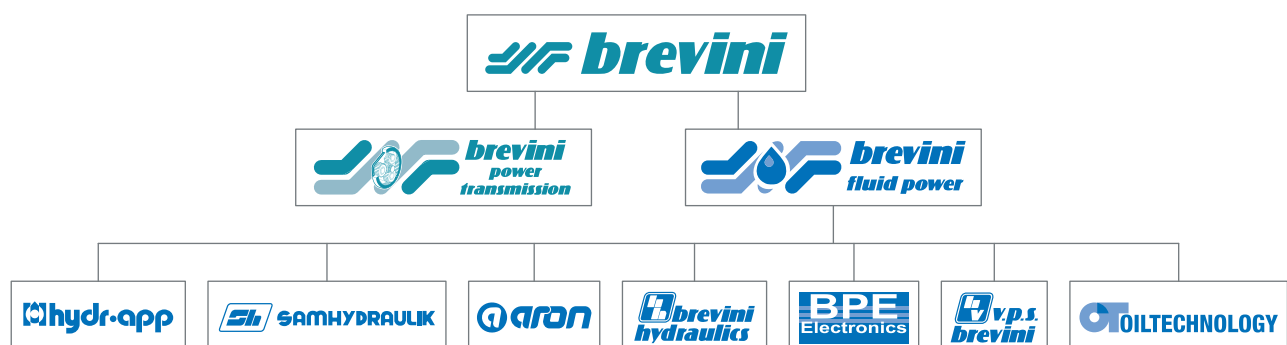


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Use of the products in this catalogue must comply with the operating limits given in the technical specifications. The type of application and operating conditions must be assessed as normal or in malfunction in order to avoid endangering the safety of people and/or items.

General terms and conditions of sale: see website www.brevinifluidpower.com.

The products shown on this catalog are parts of  line.

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

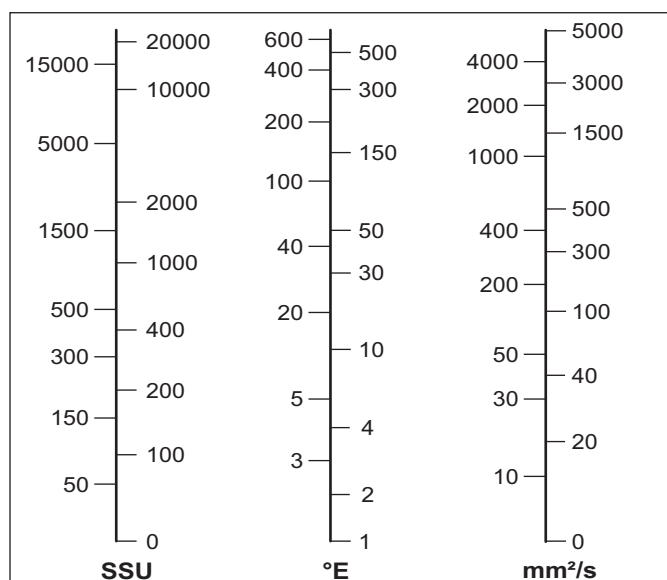
The oil viscosity must be in the range of 10 mm²/s to 500 mm²/s. Recommended oil viscosity 46 mm²/s (32 mm²/s for Cartridge valves)

Table 1: ISO viscosity grades

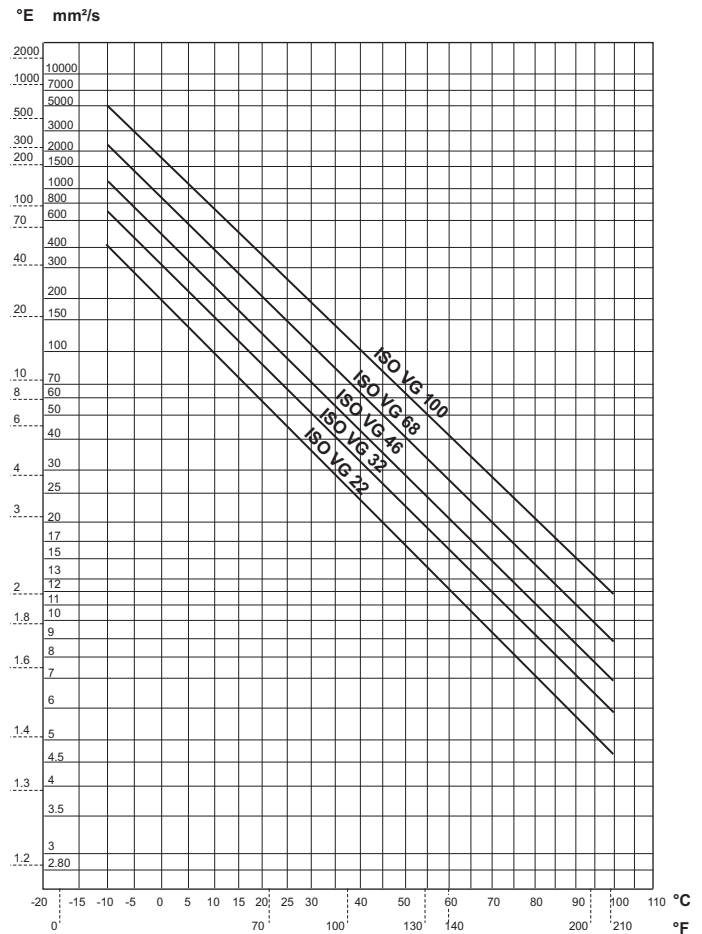
Viscosity grade	Average kinematic viscosity mm ² /s @ 40°C	Kinematic-viscosity limits mm ² /s @ 40°C	
		min.	max.
ISO VG 10	10	9.00	11.0
ISO VG 15	15	13.5	16.5
ISO VG 22	22	19.8	24.2
ISO VG 32	32	28.8	35.2
ISO VG 46	46	41.4	50.6
ISO VG 68	68	61.2	74.8
ISO VG 100	100	90.0	110

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

CONVERSION TABLE SSU / °E / mm²/s



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

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:

1. all the casting are made in Shell-Moulding, in special graphite cast iron. This kind of cast iron is in high resistance, and it allows to have, with the same external overall dimensions, bigger internal gallery, and lower pressure drops;
2. all spools are made in high resistance steel, nichel plated, radial balanced and with special notches in order to have a better sensibility;
3. all springs are made in high resistance steel. Pressure setting springs are pressed before testing;
4. max tolerance of spool housing is 2 micron;
5. 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	40	70	40	70	120	230
		GPM	10.6	18.5	10.6	18.5	31.7	60.7
Max pressure	BAR	400	400	350	350	350	350	
	psi	5800	5800	5075	5075	5075	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"	
			3/8" (1)	1/2" (2)	3/4" (2)	1/2" (1)	3/4" (1)	
	T (4)	—	—	1/2"	3/4"	3/4"	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)			3/4"-16UNF (SAE 8) (2)	1" 1/16-12UN (SAE 12) (2)	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)	—		
Spool stroke	A ÷ B	mm	± 5	± 5	± 5	± 5	± 7	± 8
		inch	± 0.20	± 0.20	± 0.20	± 0.20	± 0.28	± 0.31
	4th position	mm	- 3.5	- 5	- 3.5	- 5	- 5.5	- 5.5
		inch	- 0.14	- 0.20	- 0.14	- 0.20	- 0.22	- 0.22
	Series	mm			± 4.5	± 4.5	± 5.5	± 8
		inch			± 0.18	± 0.18	± 0.22	± 0.31

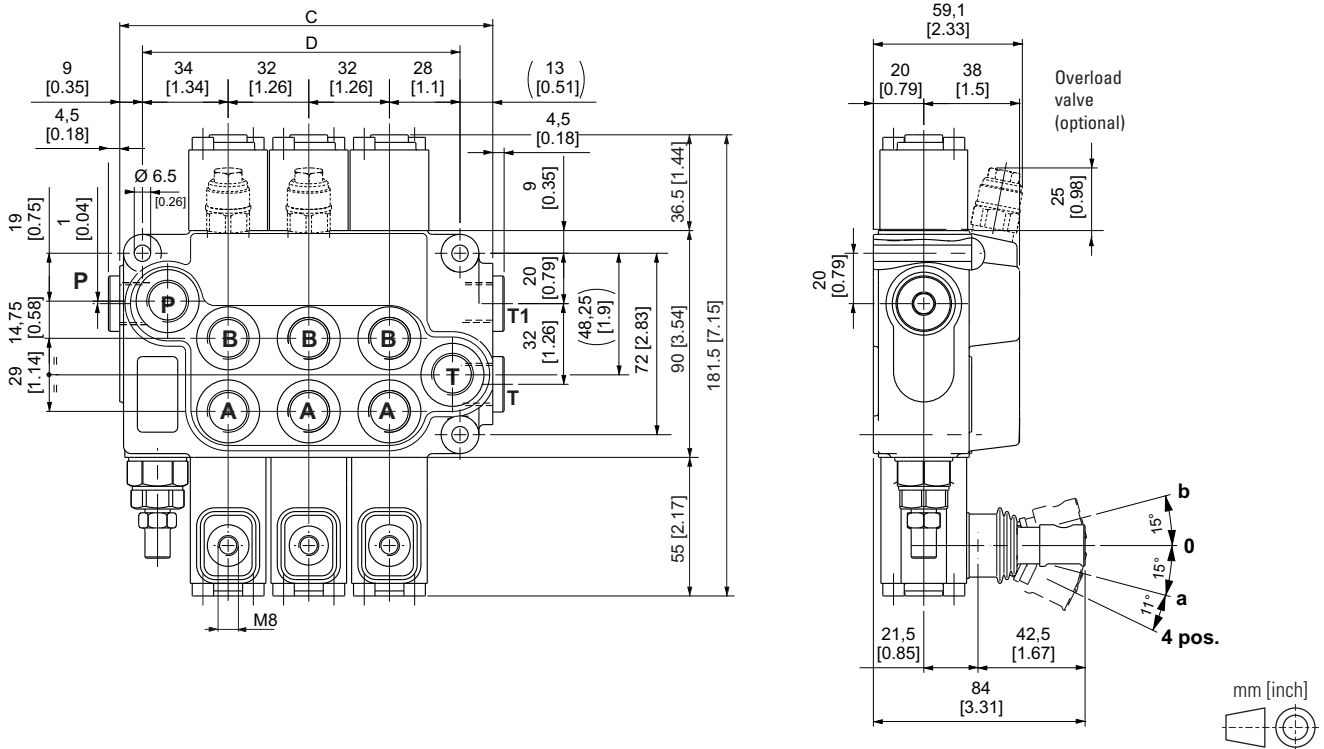
(1) threads availables on request

(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

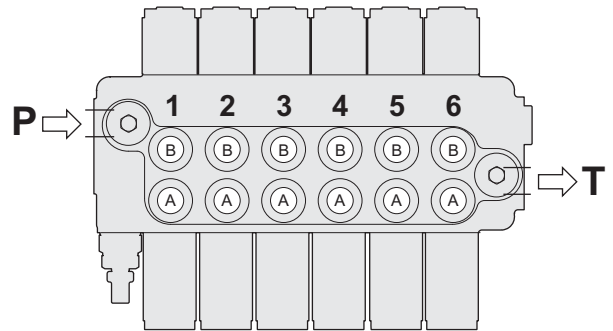
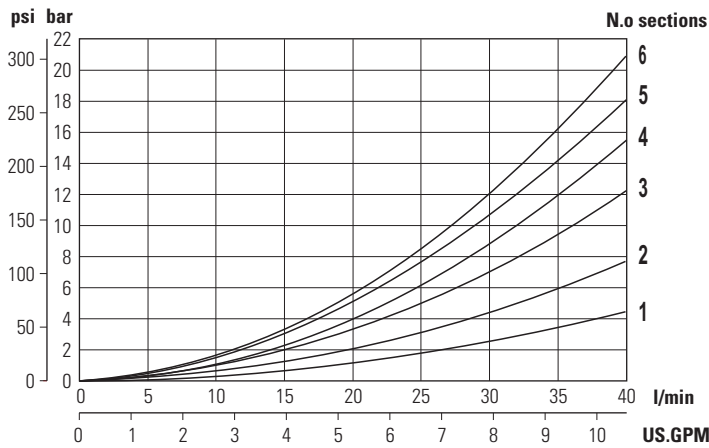


MONOBLOCK

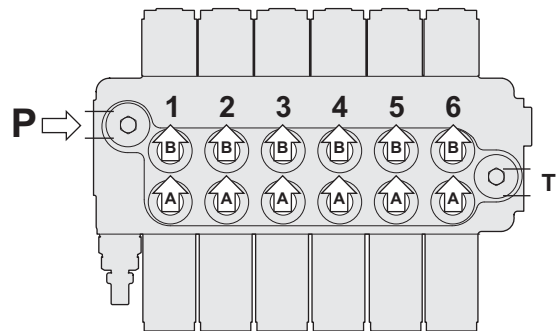
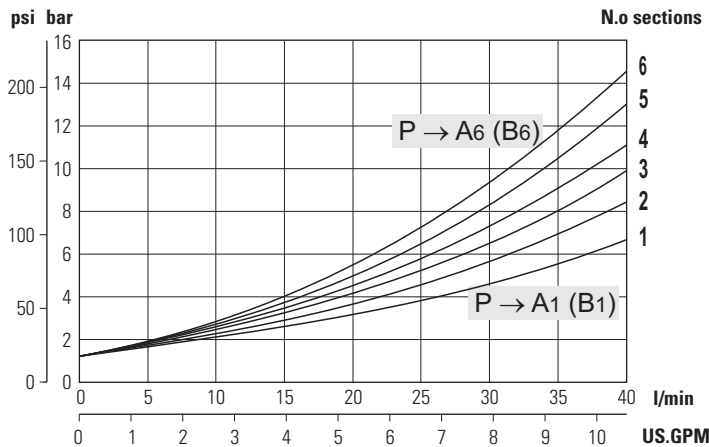
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 20/1	80 [3.15]	62 [2.44]	2.10 [4.62]	40 [10.6]	400 [5800]
DCV 20/2	112 [4.41]	94 [3.70]	3.25 [7.15]		
DCV 20/3	144 [5.67]	126 [4.96]	4.35 [9.57]		
DCV 20/4	176 [6.93]	158 [6.22]	5.45 [11.99]		
DCV 20/5	208 [8.19]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

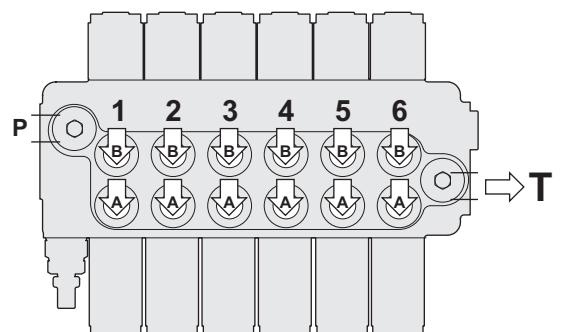
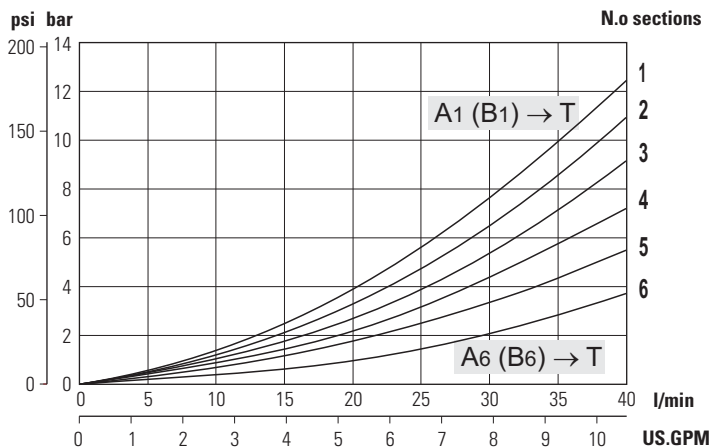
**Inlet pressure drop between P → T
spool in central position**



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



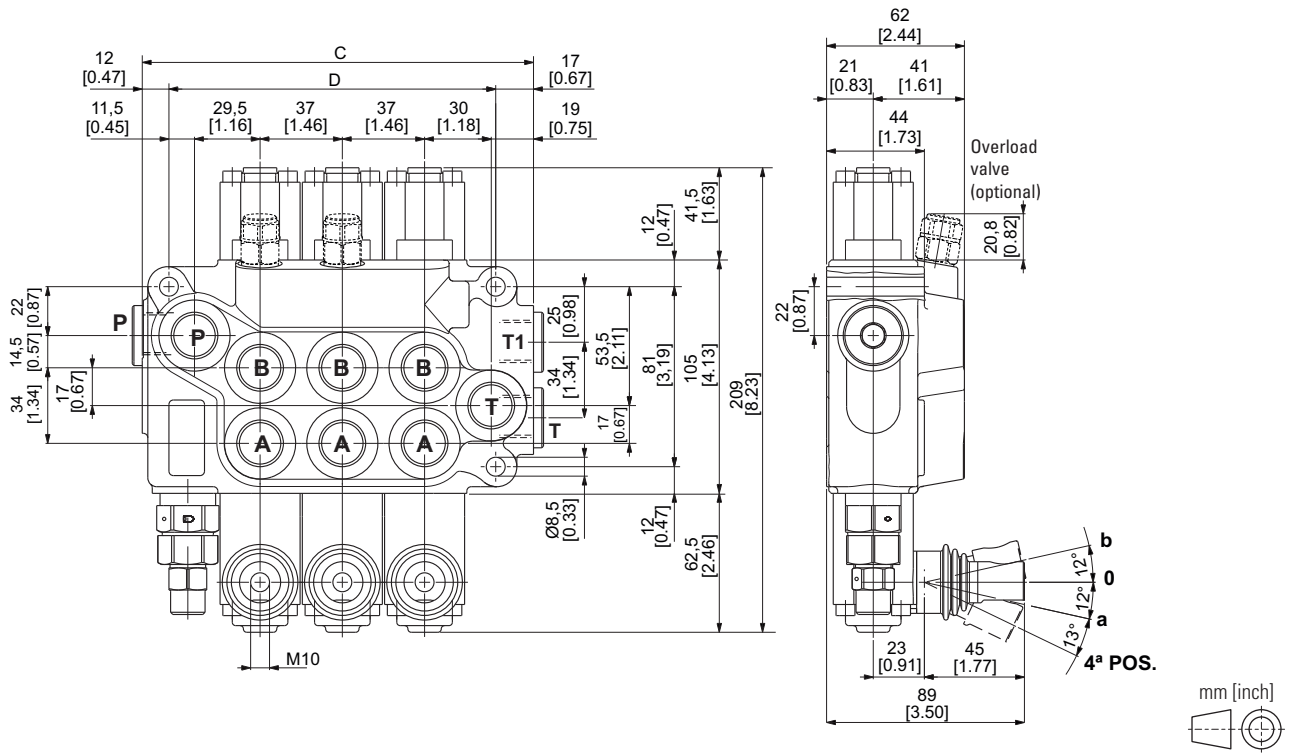
**Inlet pressure drop between A (B) → T
spool in working position**



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

MONOBLOCK

OVERALL DIMENSIONS



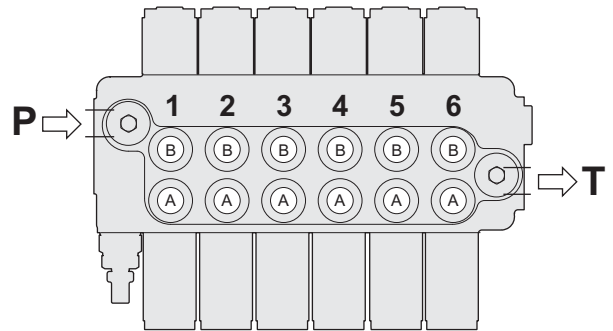
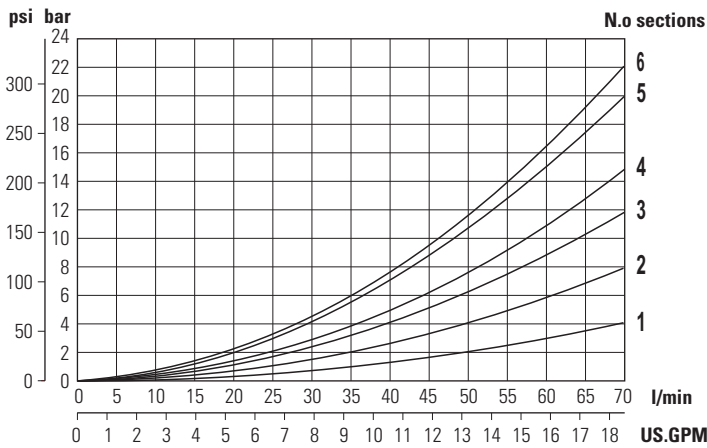
MONOBLOCK

Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 40/1	102 [4.02]	73 [2.87]	3.57 [7.85]	70 [18.5]	400 [5800]
DCV 40/2	139 [5.47]	110 [4.33]	5.45 [11.99]		
DCV 40/3	176 [6.93]	147 [5.79]	7.30 [16.06]		
DCV 40/4	213 [8.39]	184 [7.24]	9.15 [20.13]		
DCV 40/5	250 [9.84]	221 [8.70]	11.00 [24.20]		
DCV 40/6	287 [11.30]	258 [10.16]	12.85 [28.27]		

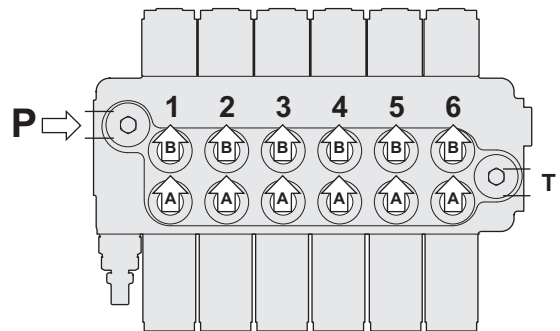
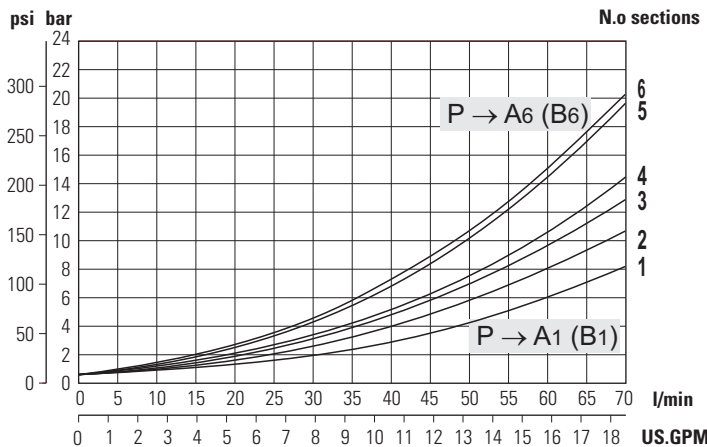
CHARACTERISTIC PRESSURE DROP FLOW CURVES

MONOBLOCK

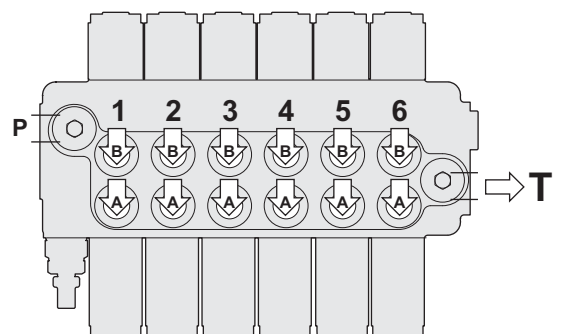
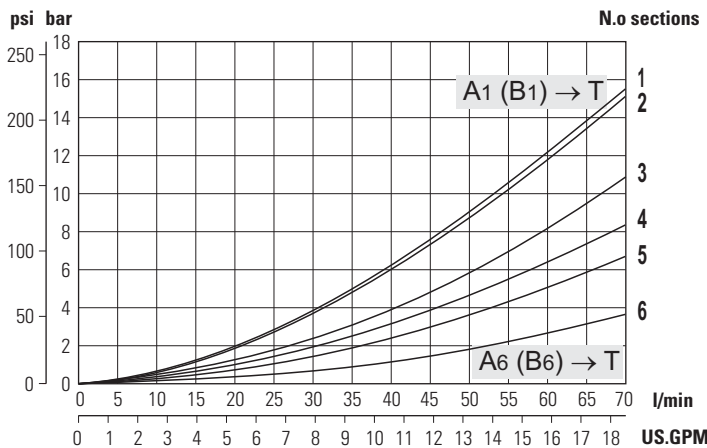
**Inlet pressure drop between P → T
spool in central position**



**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

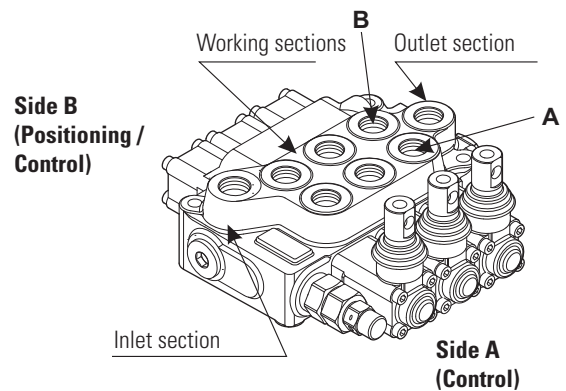
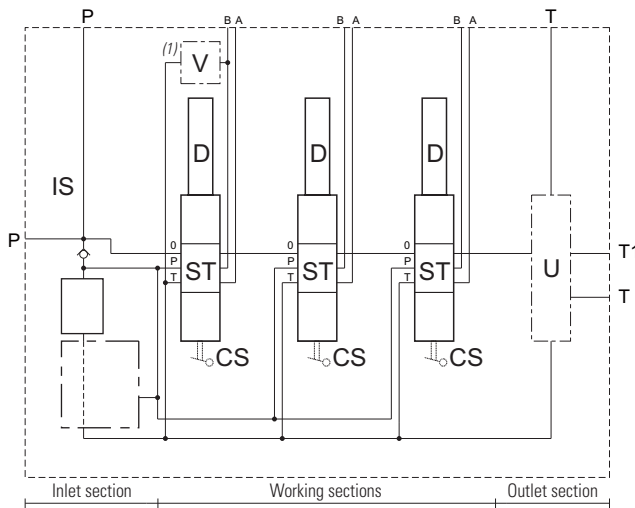
Ordering code

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 N.o working sections	5-7
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

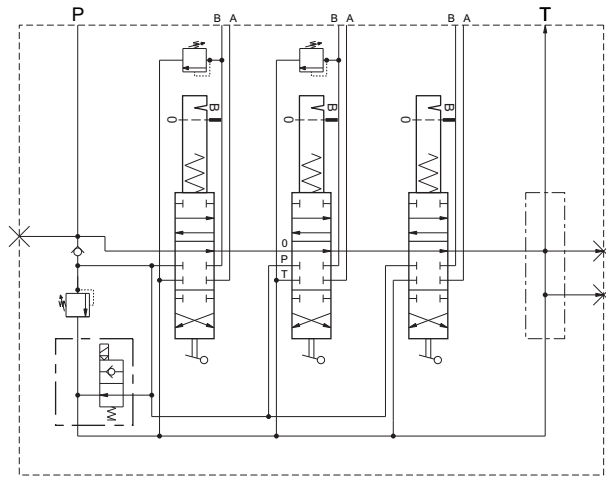
(1) ----- Optional fields. Not specify if not required.
 (2) Service port valves optional, is required a special monoblock body.

HYDRAULIC SCHEME



ORDERING CODE EXAMPLE

MONOBLOCK



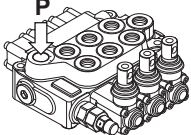
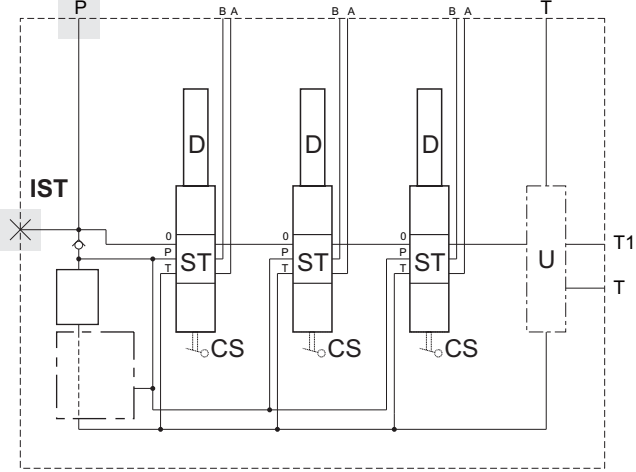
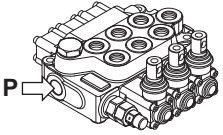
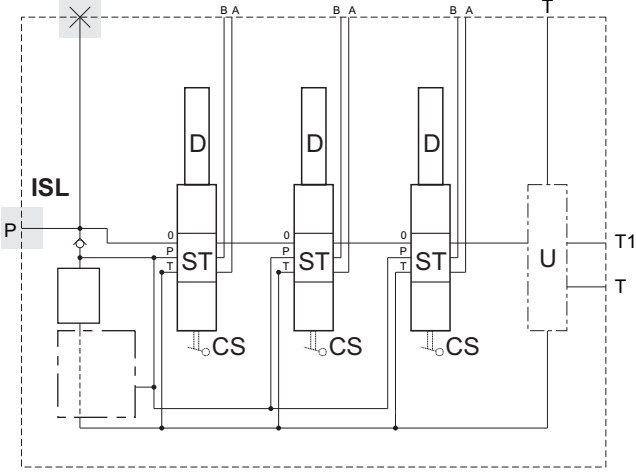
DCV40/3	IST	004	(200)	ST1	CS1	D4	VB1(150)	W2	X2	ST1	CS1	D4	W2	US	F4
---------	-----	-----	-------	-----	-----	----	----------	----	----	-----	-----	----	----	----	----

- 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

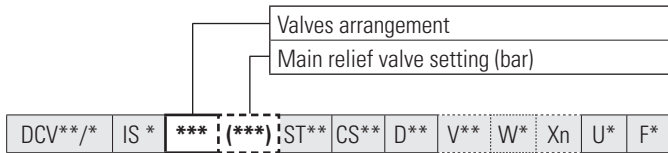
**	Description	Drawing
IST (1)	Top inlet (standard)	 
ISL (2)	Side inlet	 

(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

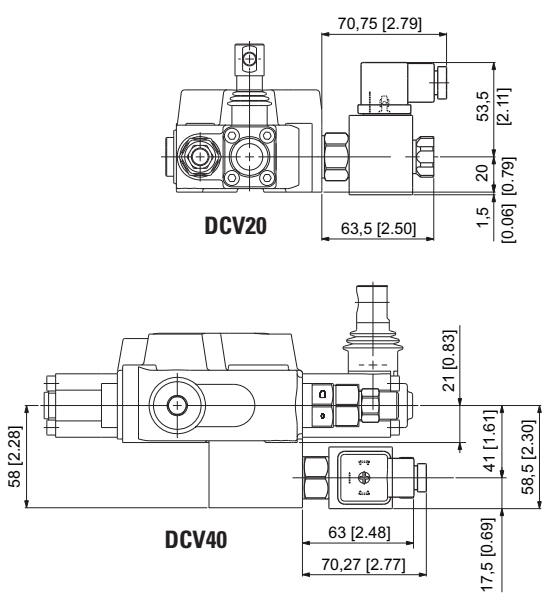
MONOBLOCK



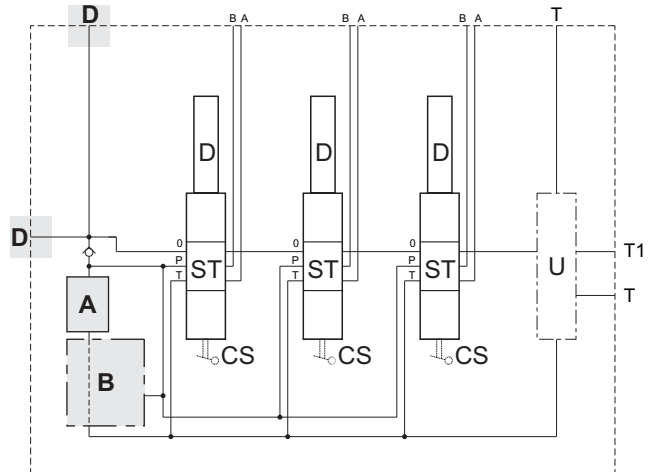
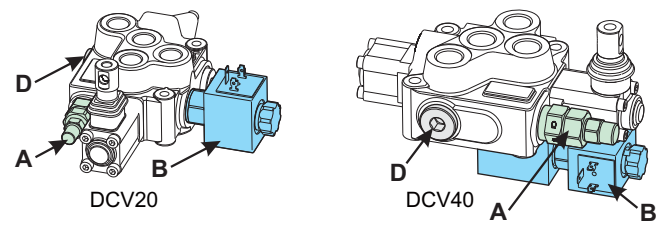
*** (***) Valves arrangements and main relief valve setting

***	(***)	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.



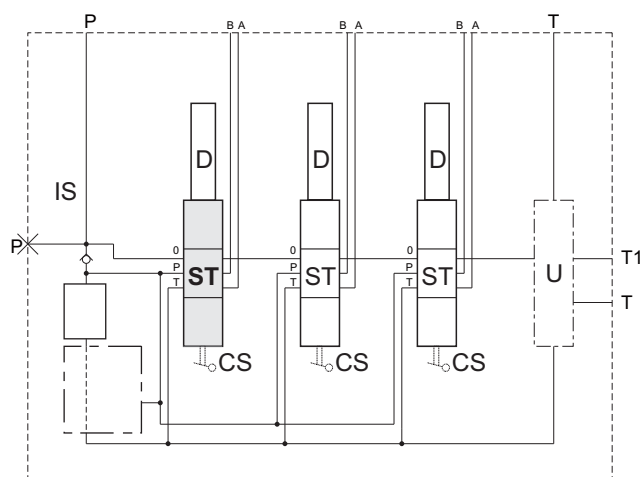
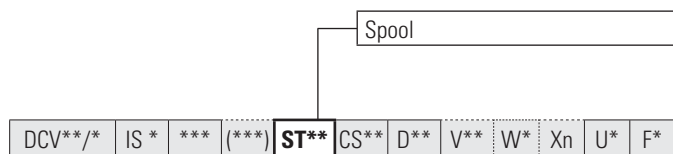
Valves choice



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	
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 selectet with IST or ISL)	
D15	Pressure gauge connection G 1/4" (re- place the plug selected with IST or ISL)	

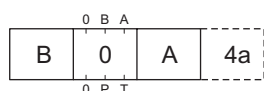
(2) Include block (DCV40) and special monoblock body

(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			



MONOBLOCK

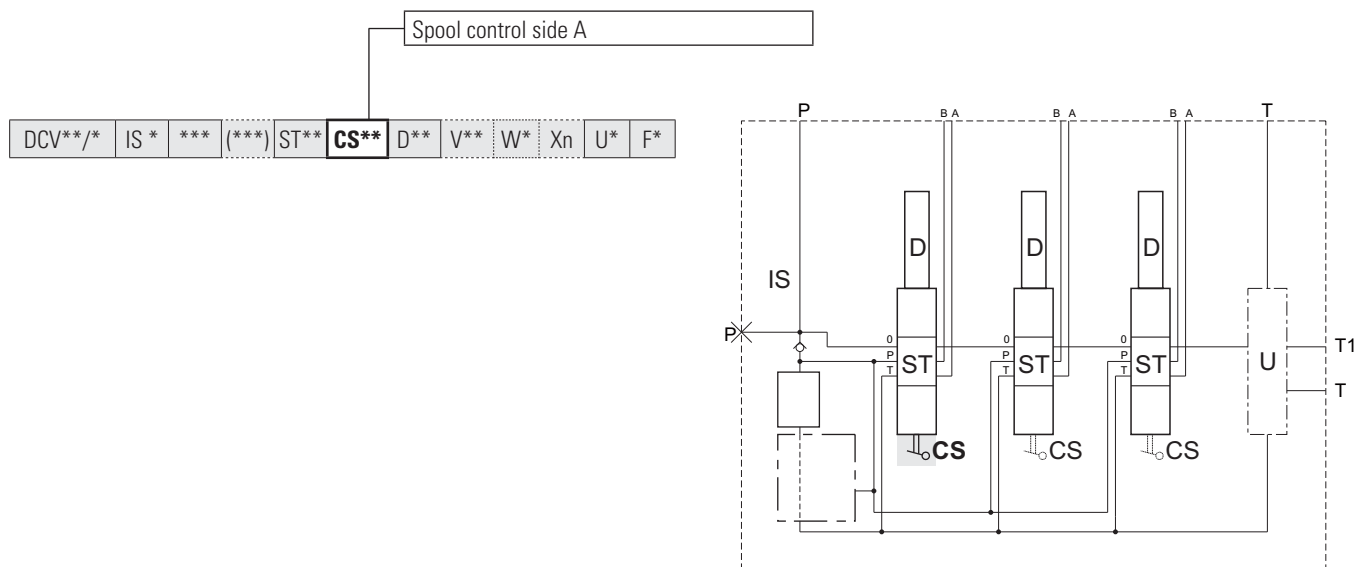
ST Spool**



**	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 (1)	Standard handle		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th rowspan="2">B</th> <th colspan="2">C</th> <th colspan="2"></th> </tr> <tr> <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>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> </tbody> </table>		A		B	C				mm	inch	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	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 (1)	Handle at 180°		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th rowspan="2">B</th> <th colspan="2">C</th> <th colspan="2"></th> </tr> <tr> <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>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> </tbody> </table>		A		B	C				mm	inch	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
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DCV 40	62.5	2.46	M10	62.5	2.46	67.5	2.66																										
CS3	Without handle		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th colspan="2">B</th> <th colspan="2">C</th> </tr> <tr> <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>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> </tbody> </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		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th rowspan="2">B</th> </tr> <tr> <th>mm</th> <th>inch</th> <th></th> </tr> </thead> <tbody> <tr> <td>DCV 20</td> <td>59</td> <td>2.32</td> <td>1/4" BSP</td> </tr> <tr> <td>DCV 40</td> <td>68</td> <td>2.68</td> <td>1/4" BSP</td> </tr> </tbody> </table>		A		B	mm	inch		DCV 20	59	2.32	1/4" BSP	DCV 40	68	2.68	1/4" BSP															
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	mm	inch																															
DCV 20	59	2.32	1/4" BSP																														
DCV 40	68	2.68	1/4" BSP																														
CS53	Hydraulic lever control		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th colspan="2">B</th> <th rowspan="2">C</th> <th colspan="2">D</th> </tr> <tr> <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>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> </tbody> </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																										
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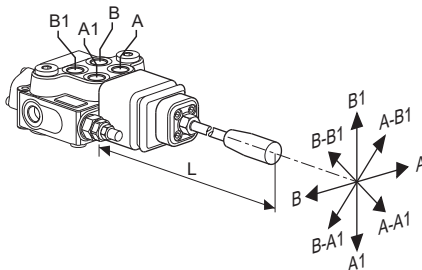
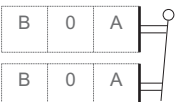
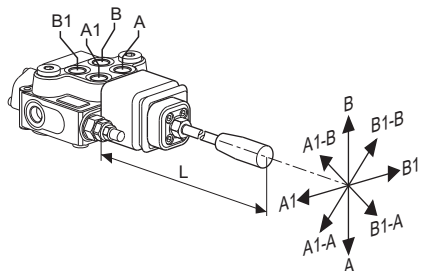

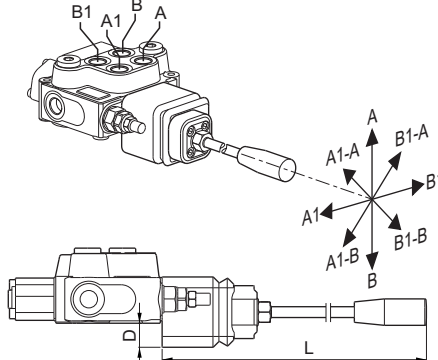

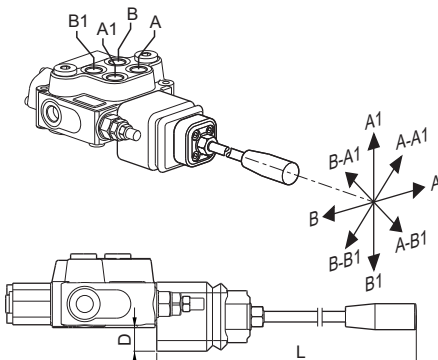

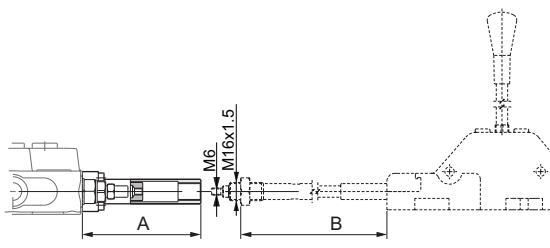
(1) CSA = Aluminium version (only DCV40)

CS** *Spool control side A*

**	Description	Drawing																				
CS5 CSA5 <i>(1)</i>	Safety handle locked in neutral position 	 <table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
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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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
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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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
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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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
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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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 20	200	7.87	73	2.87	DCV 40	220	8.66	77	3.03
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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 border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 40</td> <td>270</td> <td>10.62</td> <td>77</td> <td>3.03</td> </tr> </tbody> </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 	 <table border="1" style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th></th> <th colspan="2">L</th> </tr> <tr> <th></th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		L			mm	inch	DCV 20	280	11.02	DCV 40	285	11.22								
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	mm	inch																				
DCV 20	280	11.02																				
DCV 40	285	11.22																				
CS11 (CX) <i>(1)</i>	Cloche control with fulcrum on downstream section 	 <table border="1" style="margin-left: auto; margin-right: 0;"> <thead> <tr> <th></th> <th colspan="2">L</th> </tr> <tr> <th></th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		L			mm	inch	DCV 20	280	11.02	DCV 40	285	11.22								
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CS12 (CX) <i>(1)</i>	Cloche control with fulcrum turned 180° on the downstream section 	 <table border="1" style="margin-left: auto; margin-right: 0;"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		L		D			mm	inch	mm	inch	DCV 20	280	11.02	20	0.79	DCV 40	285	11.22	20	0.79
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DCV 40	285	11.22	20	0.79																		
CS13 (CX) <i>(1)</i>	Cloche control with fulcrum turned 180° on the upstream section 	 <table border="1" style="margin-left: auto; margin-right: 0;"> <thead> <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> </thead> <tbody> <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> </tbody> </table>		L		D			mm	inch	mm	inch	DCV 20	280	11.02	20	0.79	DCV 40	285	11.22	20	0.79
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	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> 	 <table border="1" style="margin-left: auto; margin-right: 0;"> <thead> <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> </thead> <tbody> <tr> <td>DCV 20</td> <td>104</td> <td>4.09</td> <td><i>(2)</i></td> <td><i>(2)</i></td> </tr> <tr> <td>DCV 40</td> <td>106</td> <td>4.17</td> <td><i>(2)</i></td> <td><i>(2)</i></td> </tr> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 20	104	4.09	<i>(2)</i>	<i>(2)</i>	DCV 40	106	4.17	<i>(2)</i>	<i>(2)</i>
	A		B																			
	mm	inch	mm	inch																		
DCV 20	104	4.09	<i>(2)</i>	<i>(2)</i>																		
DCV 40	106	4.17	<i>(2)</i>	<i>(2)</i>																		

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

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

CS Spool control side A**

**	Description	Drawing												
CS15 CSA15 (1)	Spool stroke adjustment in "b" 	 <table border="1"> <thead> <tr> <th></th> <th colspan="2">A</th> </tr> <tr> <th></th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </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 (1)	Spool stroke adjustment in "b", handle at 180° 	 <table border="1"> <thead> <tr> <th></th> <th colspan="2">A</th> </tr> <tr> <th></th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </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 (1)	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]												
CS18 CSA18 (1)	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]												
CS19 CSA19 (1)	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]												
CS20 CSA20 (1)	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]												

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

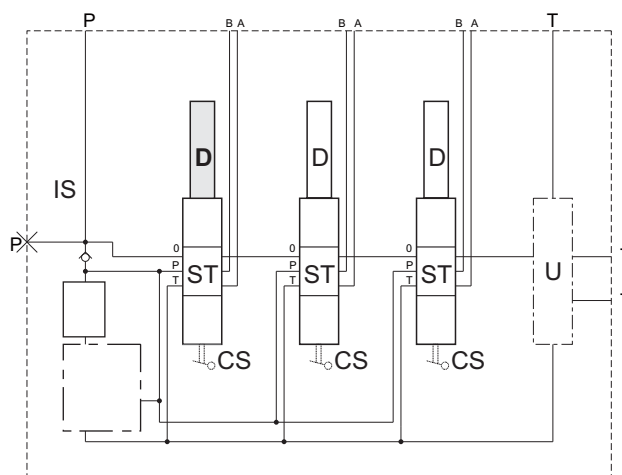
CS Spool control side A**

**	Description	Drawing																											
CS21 CSA21 (1)	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	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">CS21</th> <th colspan="2">CSA21</th> <th colspan="2">B</th> </tr> <tr> <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																							
	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 (1)	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	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">CS22</th> <th colspan="2">CSA22</th> <th colspan="2">B</th> </tr> <tr> <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																							
	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																							
CS23 CSA23 (1)	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	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">CS23</th> <th colspan="2">CSA23</th> <th colspan="2">B</th> </tr> <tr> <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
	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																							
CS24 CSA24 (1)	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	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">CS24</th> <th colspan="2">CSA24</th> <th colspan="2">B</th> </tr> <tr> <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																							
DCV 20	55	2.17	—	—	50.5	1.99																							
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 (1) **CSA** = Aluminium version (only DCV40)

Positioning / Control side B

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




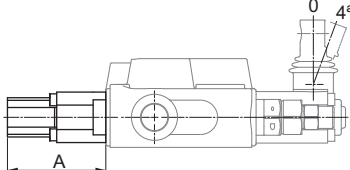
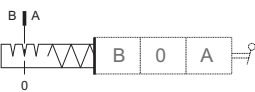
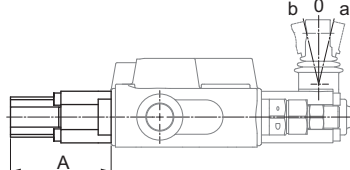

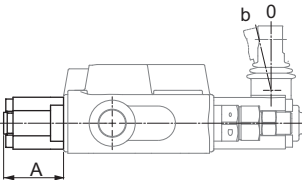

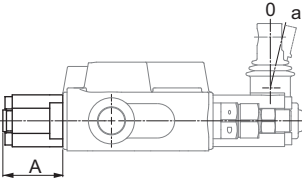
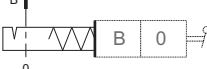
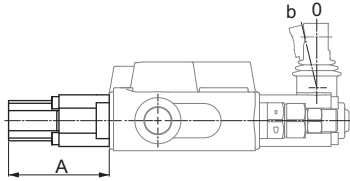
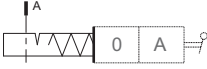
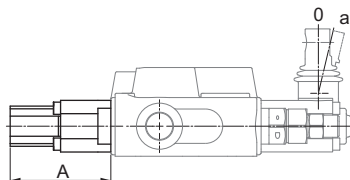

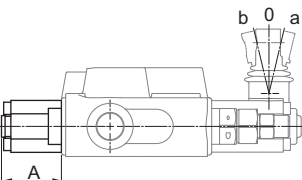
MONOBLOCK

D** Positioning / Control side B

**	Description	Drawing																				
D1 DA1 (1)	3 positions, spring centred spool 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D1</th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		D1		A		mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	DCV 40	41.5	1.63	42	1.65
	D1		A																			
	mm	inch	mm	inch																		
DCV 20	36.5	1.03	—	—																		
DCV 40	41.5	1.63	42	1.65																		
D2 DA2 (1)	3 positions, spring centred spool, detent in "a" and "b" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D2</th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		D2		A		mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
	D2		A																			
	mm	inch	mm	inch																		
DCV 20	60	2.36	—	—																		
DCV 40	72.5	2.85	72.5	2.85																		
D3 DA3 (1)	3 positions, spring centred spool, detent in "a" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D3</th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		D3		A		mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
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	mm	inch	mm	inch																		
DCV 20	60	2.36	—	—																		
DCV 40	72.5	2.85	72.5	2.85																		
D4 DA4 (1)	3 positions, spring centred spool, detent in "b" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D4</th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		D4		A		mm	inch	mm	inch	DCV 20	60	2.36	—	—	DCV 40	72.5	2.85	72.5	2.85
	D4		A																			
	mm	inch	mm	inch																		
DCV 20	60	2.36	—	—																		
DCV 40	72.5	2.85	72.5	2.85																		
D5 DA5 (1)	4 positions, spring centred spool, detent in 4th position 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D5</th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </table>		D5		A		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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(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 border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D6</th> <th colspan="2">A</th> <th colspan="2">DA6</th> </tr> <tr> <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>60</td> <td>2.36</td> <td>—</td> <td>—</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> <td>—</td> <td>—</td> </tr> </tbody> </table>		D6		A		DA6		mm	inch	mm	inch	mm	inch	DCV 20	60	2.36	—	—	—	—	DCV 40	72.5	2.85	72.5	2.85	—	—
	D6		A		DA6																									
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DCV 20	60	2.36	—	—	—	—																								
DCV 40	72.5	2.85	72.5	2.85	—	—																								
D7 DA7 (1)	3 positions, spring centred spool, detent in "a" - "0" - "b" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D7</th> <th colspan="2">A</th> <th colspan="2">DA7</th> </tr> <tr> <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>60</td> <td>2.36</td> <td>—</td> <td>—</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> <td>—</td> <td>—</td> </tr> </tbody> </table>		D7		A		DA7		mm	inch	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 border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D8</th> <th colspan="2">A</th> <th colspan="2">DA8</th> </tr> <tr> <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>36.5</td> <td>1.03</td> <td>—</td> <td>—</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> <td>—</td> <td>—</td> </tr> </tbody> </table>		D8		A		DA8		mm	inch	mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	—	—	DCV 40	41.5	1.63	42	1.65	—	—
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D9 DA9 (1)	2 positions ("0" - "a"), spring centred spool 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D9</th> <th colspan="2">A</th> <th colspan="2">DA9</th> </tr> <tr> <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>36.5</td> <td>1.03</td> <td>—</td> <td>—</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> <td>—</td> <td>—</td> </tr> </tbody> </table>		D9		A		DA9		mm	inch	mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	—	—	DCV 40	41.5	1.63	42	1.65	—	—
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D10 DA10 (1)	2 positions ("0" - "b"), spring centred spool, detent in "b" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D10</th> <th colspan="2">A</th> <th colspan="2">DA10</th> </tr> <tr> <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>60</td> <td>2.36</td> <td>—</td> <td>—</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> <td>—</td> <td>—</td> </tr> </tbody> </table>		D10		A		DA10		mm	inch	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	—	—	—	—																								
DCV 40	72.5	2.85	72.5	2.85	—	—																								
D12 DA12 (1)	3 positions free (without spring) 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D12</th> <th colspan="2">A</th> <th colspan="2">DA12</th> </tr> <tr> <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>36.5</td> <td>1.03</td> <td>—</td> <td>—</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> <td>—</td> <td>—</td> </tr> </tbody> </table>		D12		A		DA12		mm	inch	mm	inch	mm	inch	DCV 20	36.5	1.03	—	—	—	—	DCV 40	41.5	1.63	42	1.65	—	—
	D12		A		DA12																									
	mm	inch	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	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	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
			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
			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
			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
			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 		A		B	
			mm	inch	mm	inch
			DCV 20	91	3.58	104.5
DCV 40	96	3.78	106.5	4.19		
			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 		A		B	
			mm	inch	mm	inch
			DCV 20	91	3.58	104.5
DCV 40	96	3.78	106.5	4.19		
			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 		A		B	
			mm	inch	mm	inch
			DCV 20	111	4.37	101.5
DCV 40	119.5	4.70	103.5	4.07		
			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 		A		B	
			mm	inch	mm	inch
			DCV 20	111	4.37	101.5
DCV 40	119.5	4.70	103.5	4.07		
			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 		A		B	
			mm	inch	mm	inch
			DCV 20	111	4.37	101.5
DCV 40	119.5	4.70	103.5	4.07		
			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 		A		B	
			mm	inch	mm	inch
			DCV 20	111	4.37	101.5
DCV 40	119.5	4.70	103.5	4.07		
			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	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 40</td> <td>72.5</td> <td>2.85</td> <td>50</td> <td>1.97</td> </tr> </tbody> </table> <p>Cable length: 50 cm [19.69 inch]</p>		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	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 40</td> <td>72.5</td> <td>2.85</td> <td>50</td> <td>1.97</td> </tr> </tbody> </table> <p>Cable length: 50 cm [19.69 inch]</p>		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	<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 40</td> <td>72.5</td> <td>2.85</td> <td>50</td> <td>1.97</td> </tr> </tbody> </table> <p>Cable length: 50 cm [19.69 inch]</p>		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 border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 40</td> <td>70</td> <td>2.76</td> <td>50</td> <td>1.97</td> </tr> </tbody> </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 border="1"> <thead> <tr> <th></th> <th colspan="2">A</th> </tr> <tr> <th></th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <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> </tbody> </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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </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)

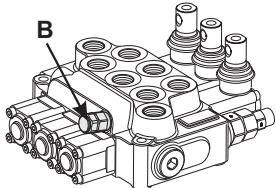
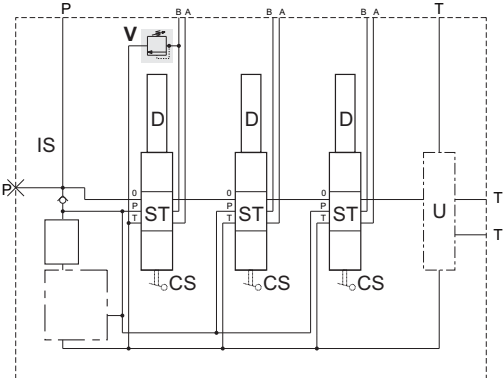
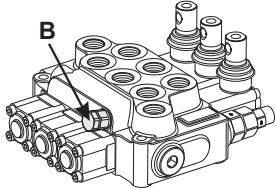
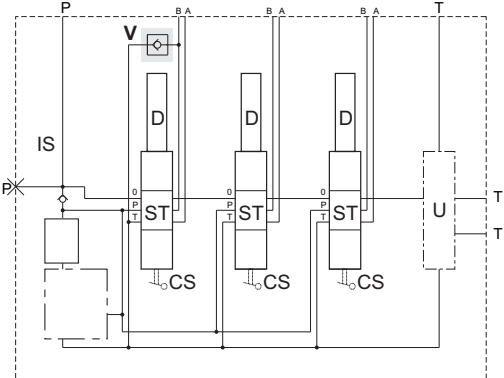
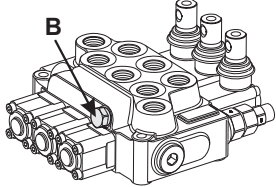
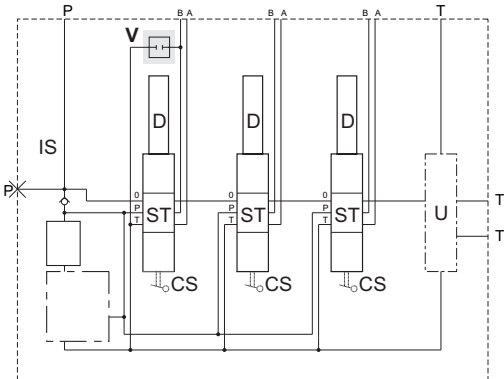
(2) Cable supplied on request. Length cable and control, contact our commercial dept

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 auxiliary 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.

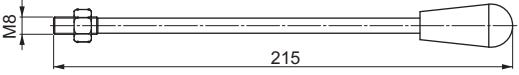
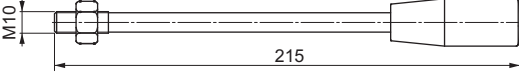
(3) Only for DCV20

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

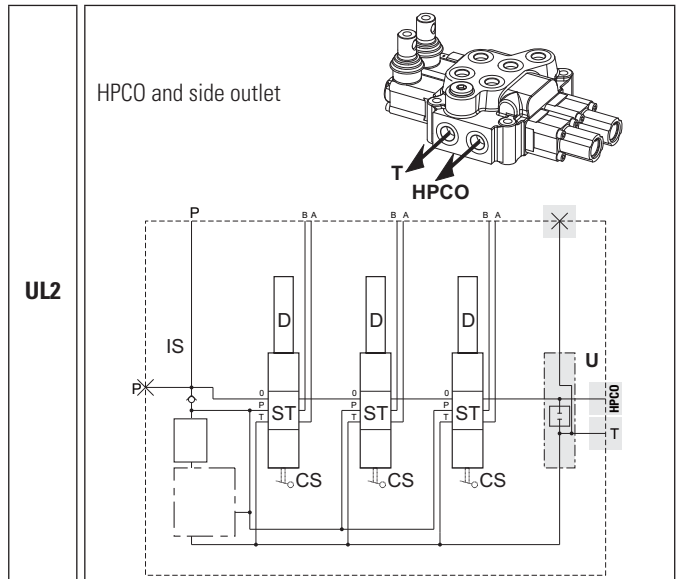
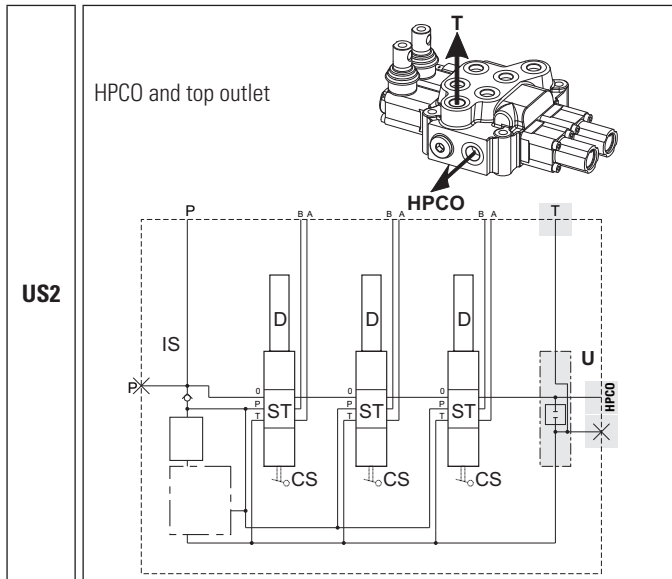
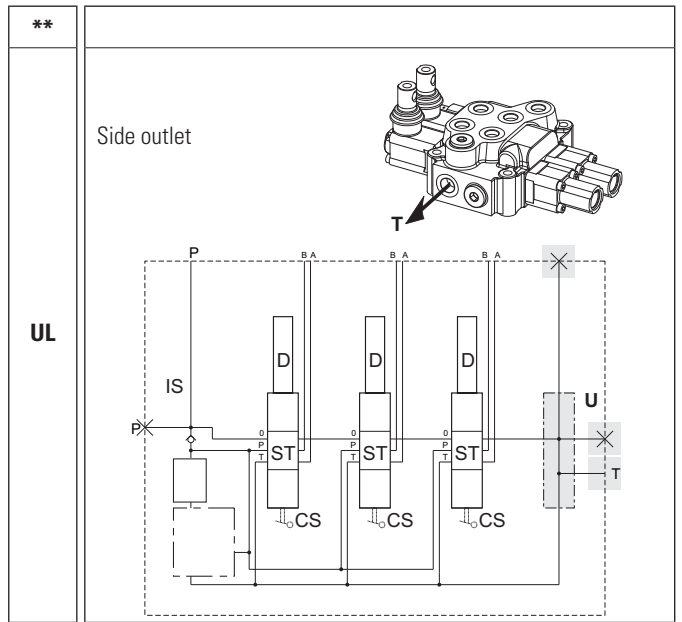
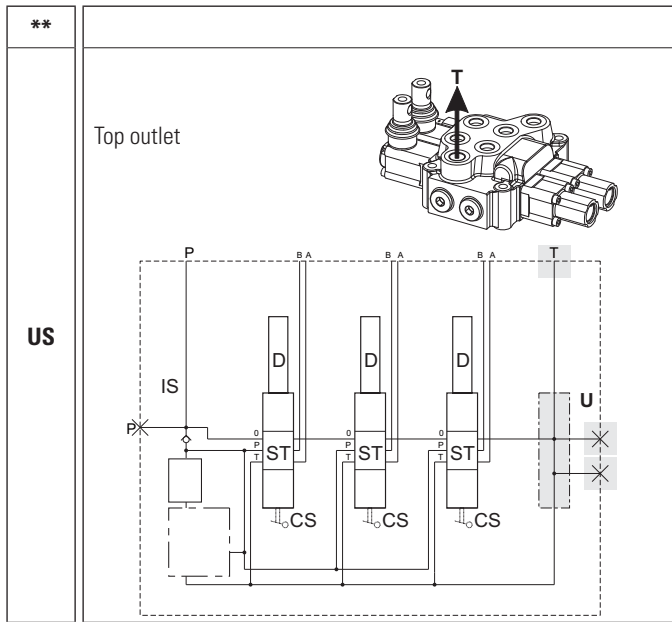
**	Description	Drawing
W1	Standard DCV 20 For cloche control use W2	
W2	Standard DCV 40	

Outlet sections

Outlet

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

U* Outlet



Threads

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

F* Threads

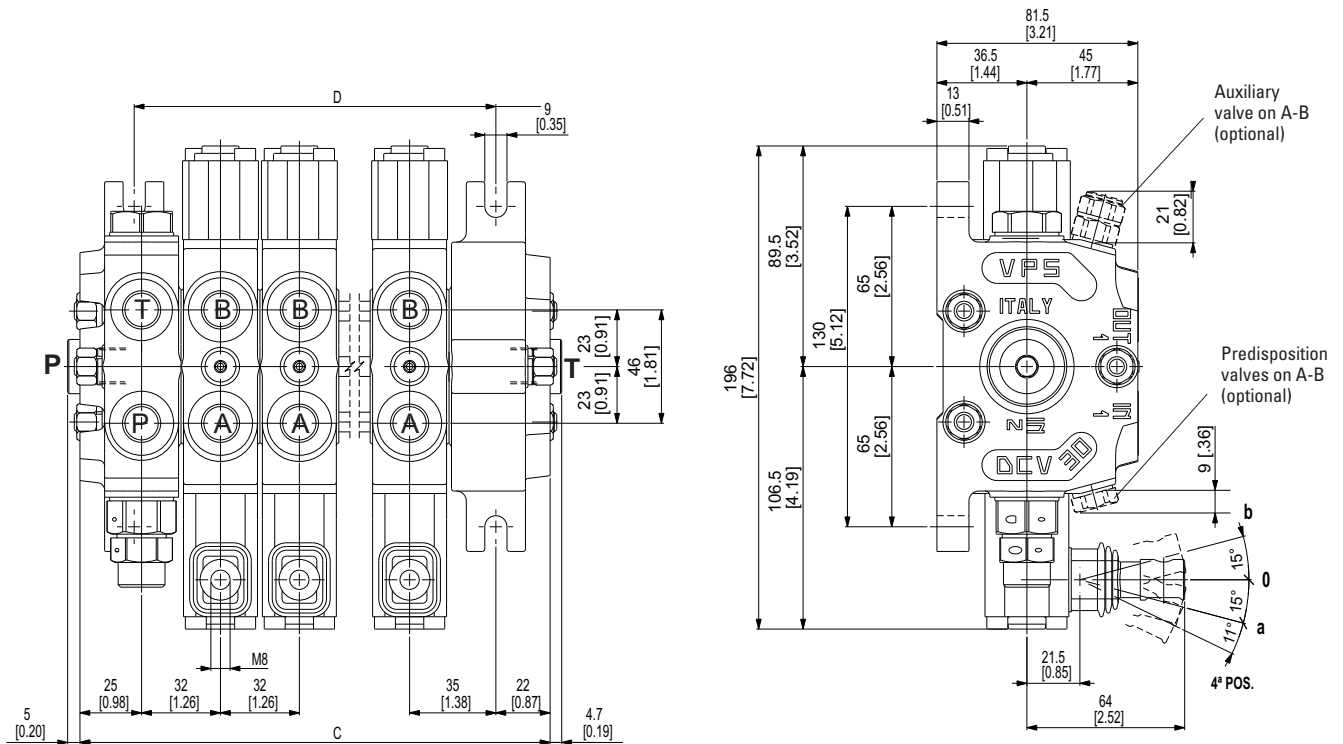
**	Description	DCV20 P-A-B-T-HPCO	DCV40 P-A-B-T-HPCO
F3	3/8" BSP	•	• ⁽¹⁾
F4	1/2" BSP		•
F31	9/16" - 18UNF (SAE 6)	•	
F32	3/4" - 16UNF (SAE 8)		•
F33	7/8" - 14UNF (SAE 10)		• ⁽¹⁾

⁽¹⁾ Threads availables on request

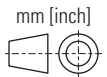
Modular valve DCV30



OVERALL DIMENSIONS



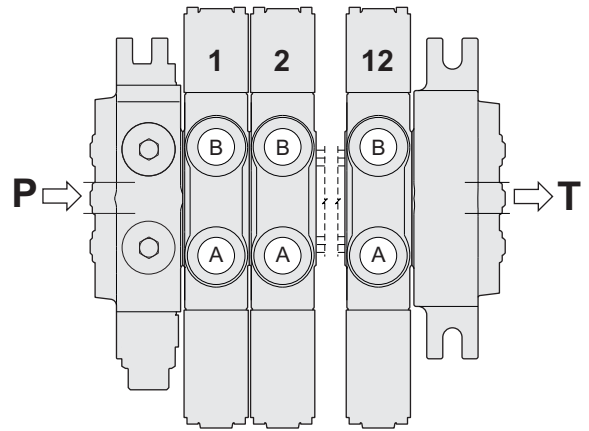
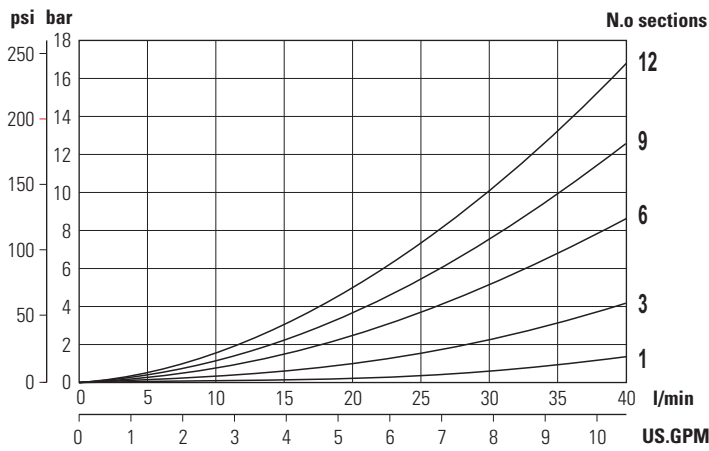
Tie-rod tightening torque: **35 Nm [25.8 lbf.ft]**



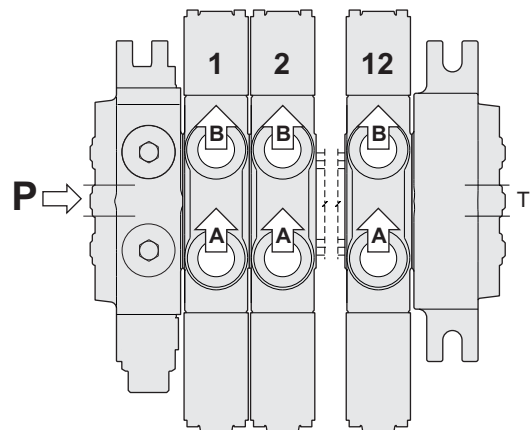
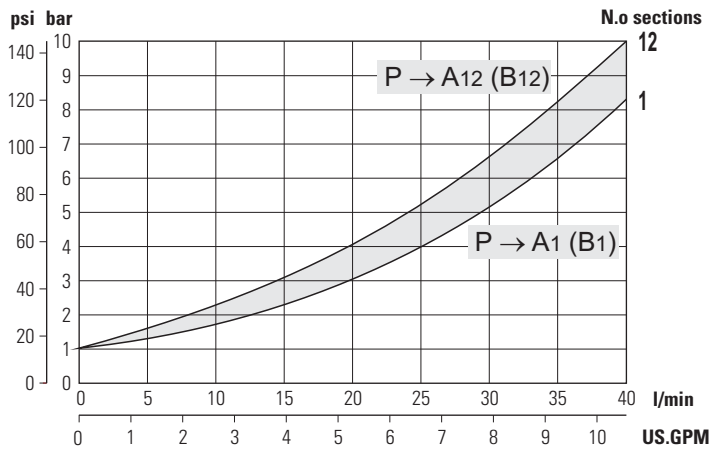
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 30/1	114 [4.49]	70 [2.76]	4.70 [10.34]	40 [10.6]	350 [5075]
DCV 30/2	146 [5.75]	102 [4.02]	6.40 [14.08]		
DCV 30/3	178 [7.01]	134 [5.28]	8.10 [17.82]		
DCV 30/4	210 [8.27]	166 [6.54]	9.80 [21.56]		
DCV 30/5	242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

CHARACTERISTIC PRESSURE DROP FLOW CURVES

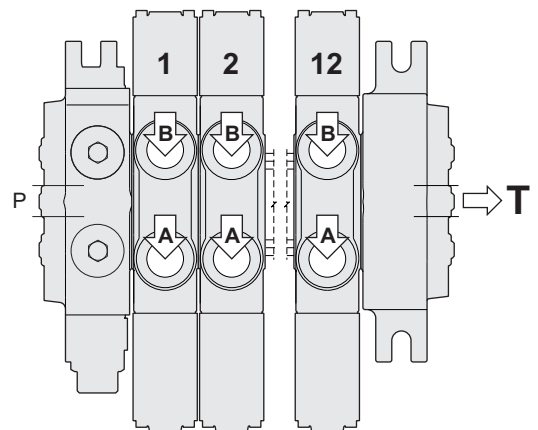
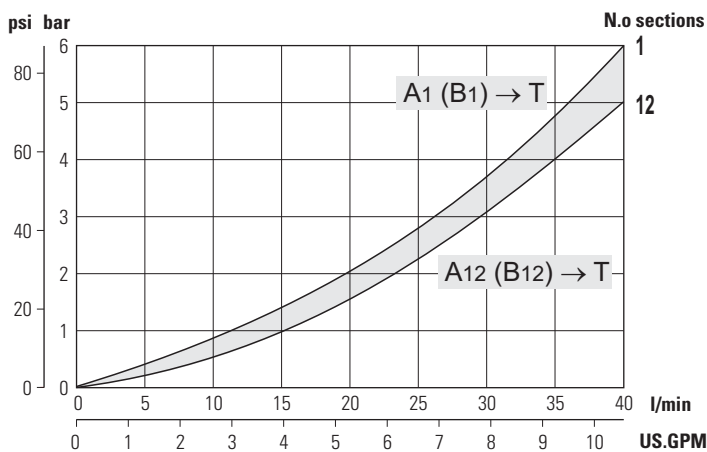
**Inlet pressure drop between P → T
spool in central position**



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



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



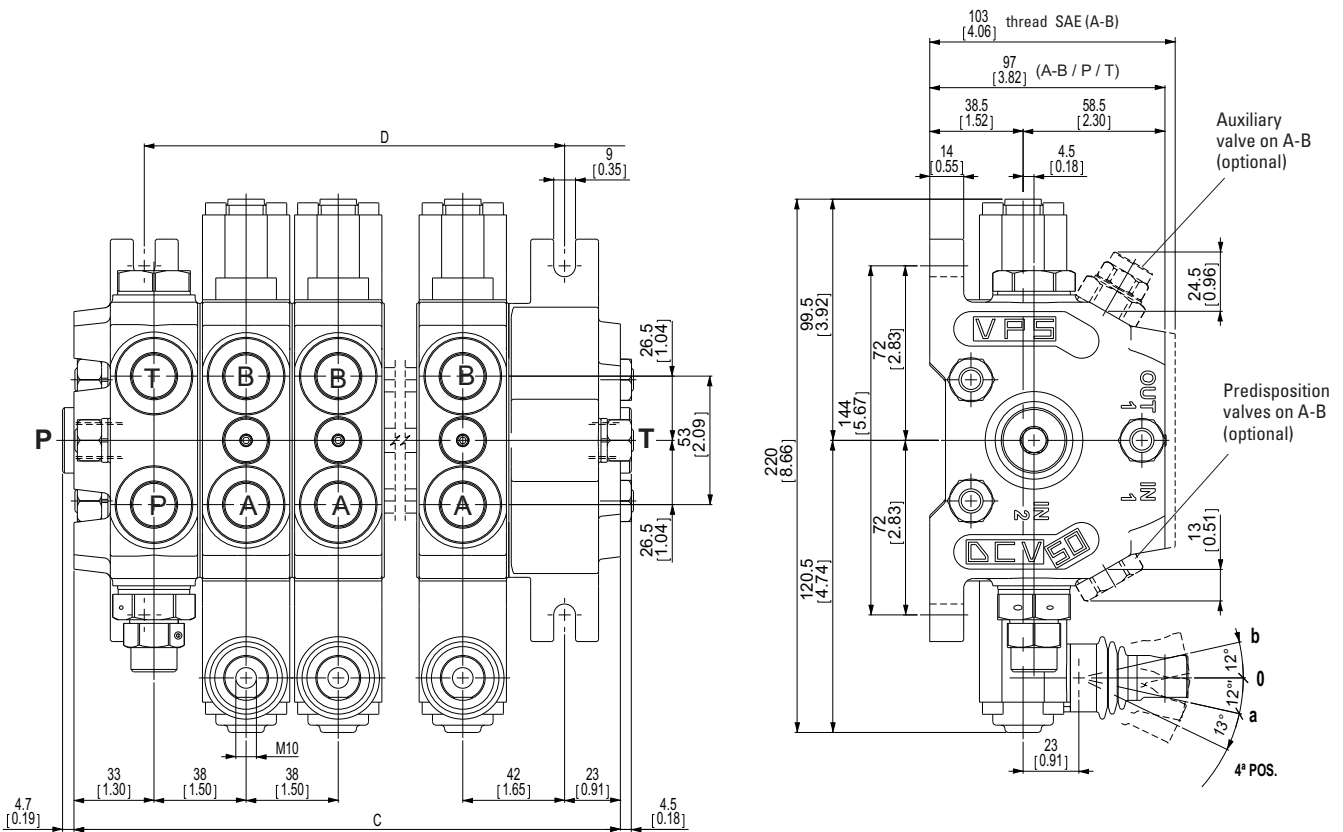
Metering curves are different for each type of spool. Therefore particular curves are supplied on request
The curves are obtained using standard double acting spool (cod. ST1) with oil at 50°C and viscosity 36 mm² / s

MODULAR

Modular valve DCV50

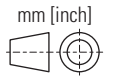


OVERALL DIMENSIONS



MODULAR

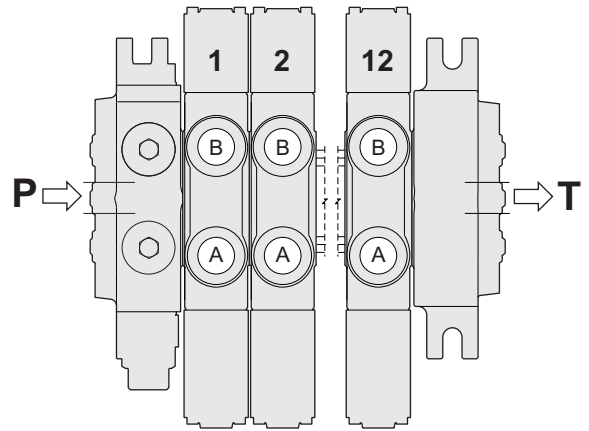
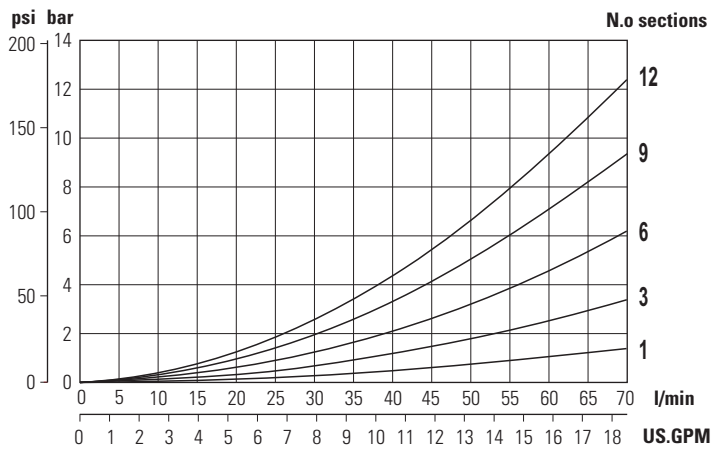
Tie-rod tightening torque: **55 Nm [40.6 lbf.ft]**



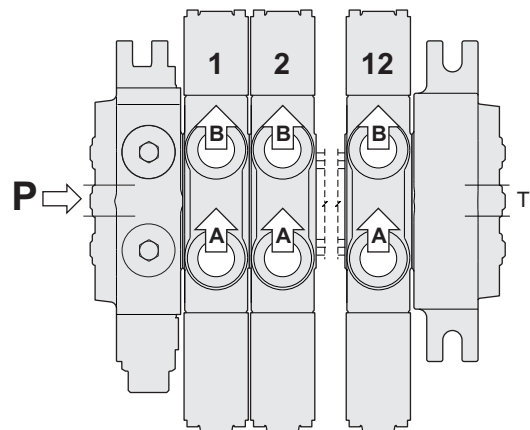
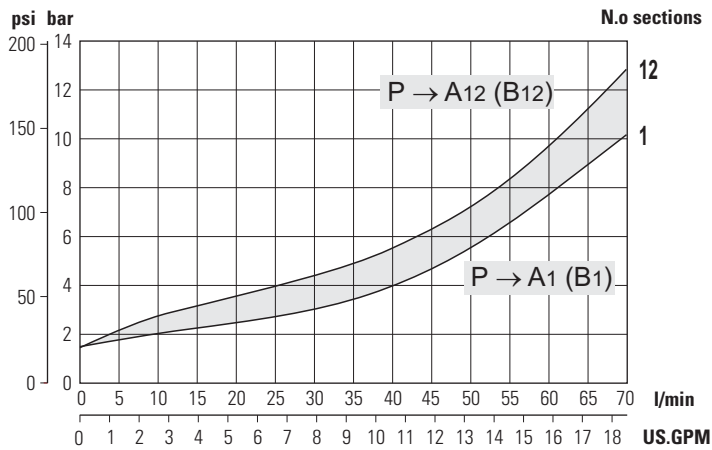
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 50/1	130 [5.12]	84 [3.31]	7.00 [15.40]	70 [18.5]	350 [5075]
DCV 50/2	168 [6.61]	122 [4.80]	9.60 [21.12]		
DCV 50/3	206 [8.11]	160 [6.30]	12.20 [26.84]		
DCV 50/4	244 [9.61]	198 [7.80]	14.80 [32.56]		
DCV 50/5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

CHARACTERISTIC PRESSURE DROP FLOW CURVES

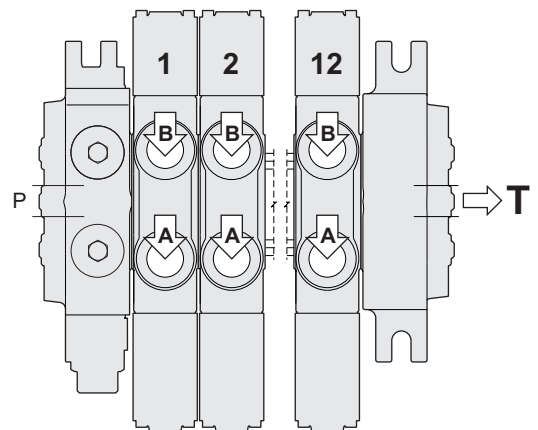
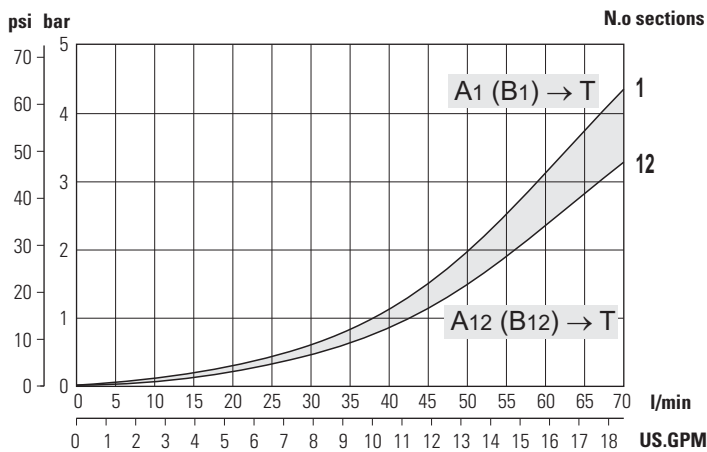
**Inlet pressure drop between P → T
spool in central position**



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



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



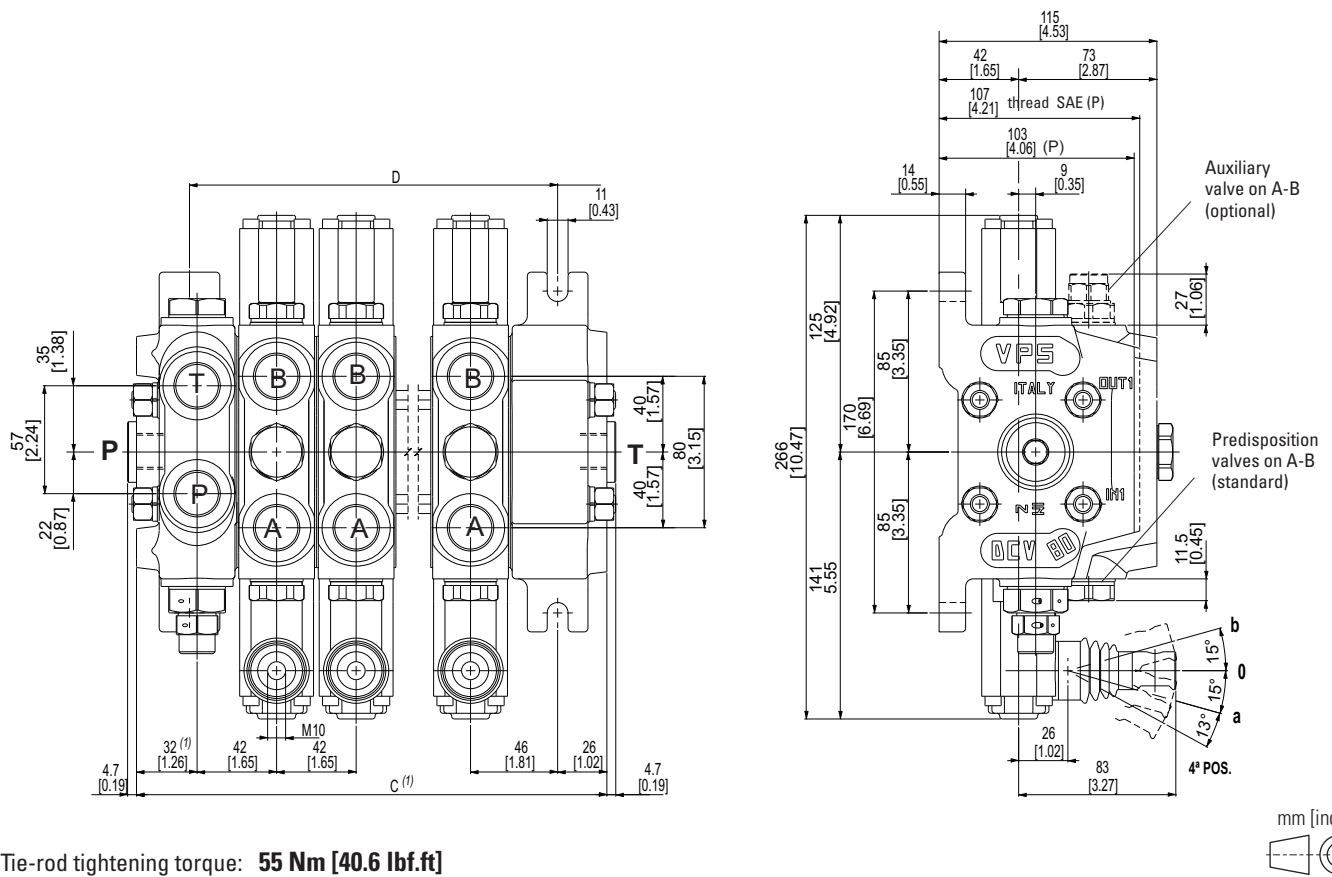
Metering curves are different for each type of spool. Therefore particular curves are supplied on request
The curves are obtained using standard double acting spool (cod. ST1) with oil at 50°C and viscosity 36 mm² / s

MODULAR

Modular valve DCV80



OVERALL DIMENSIONS

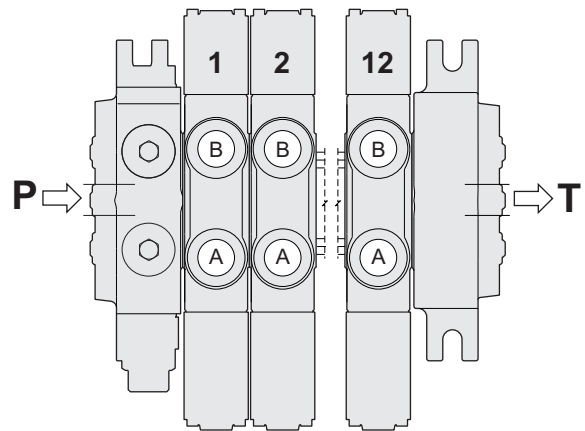
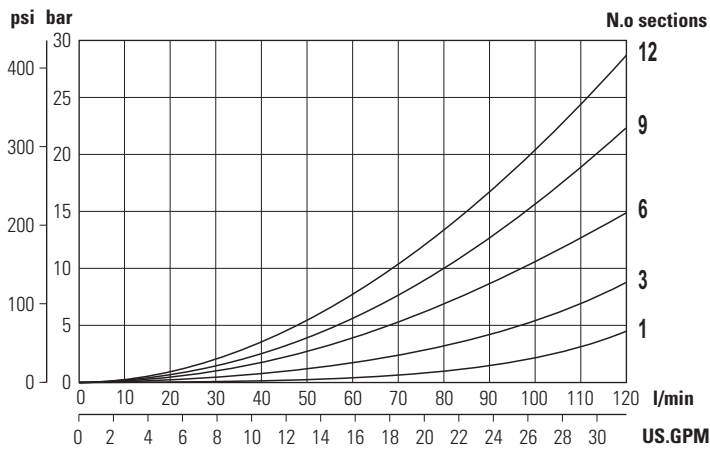


Type	C ⁽¹⁾ mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV 80/1	144 [5.67]	92 [3.62]	9.80 [21.56]	120 [31.7]	350 [5075]
DCV 80/2	186 [7.32]	134 [5.28]	13.70 [30.14]		
DCV 80/3	228 [8.98]	176 [6.93]	17.60 [38.72]		
DCV 80/4	270 [10.63]	218 [8.58]	21.50 [47.30]		
DCV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

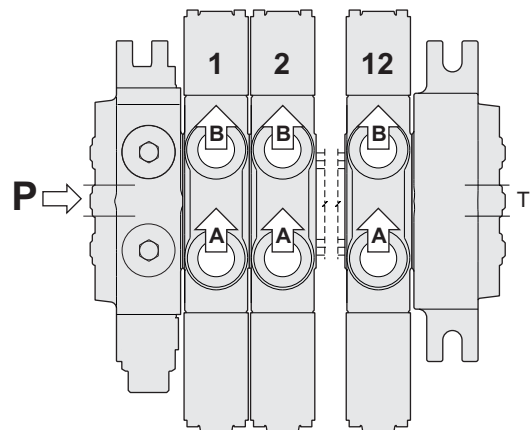
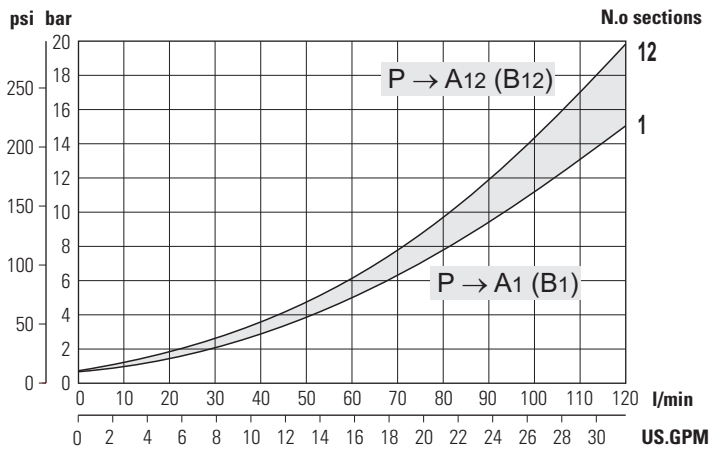
(1) Increase the dimensions of 7 mm [0.28 inch] for the body with SAE threads

CHARACTERISTIC PRESSURE DROP FLOW CURVES

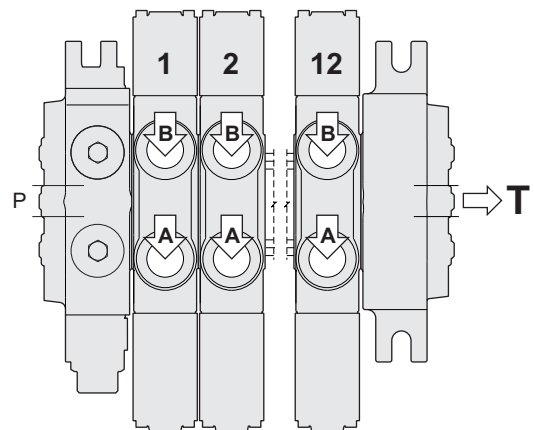
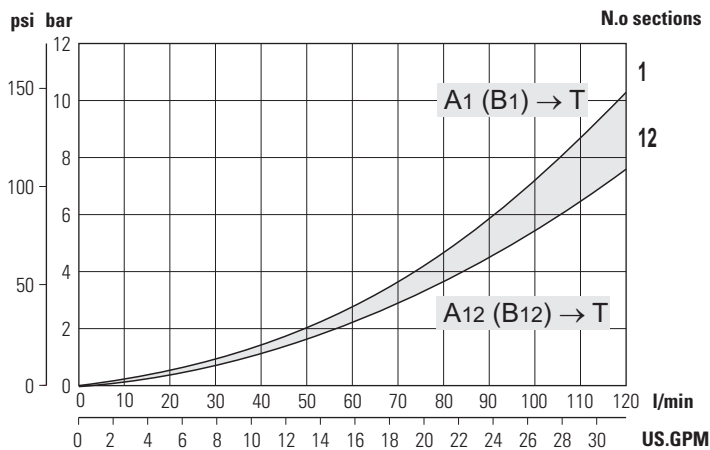
**Inlet pressure drop between P → T
spool in central position**



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



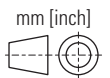
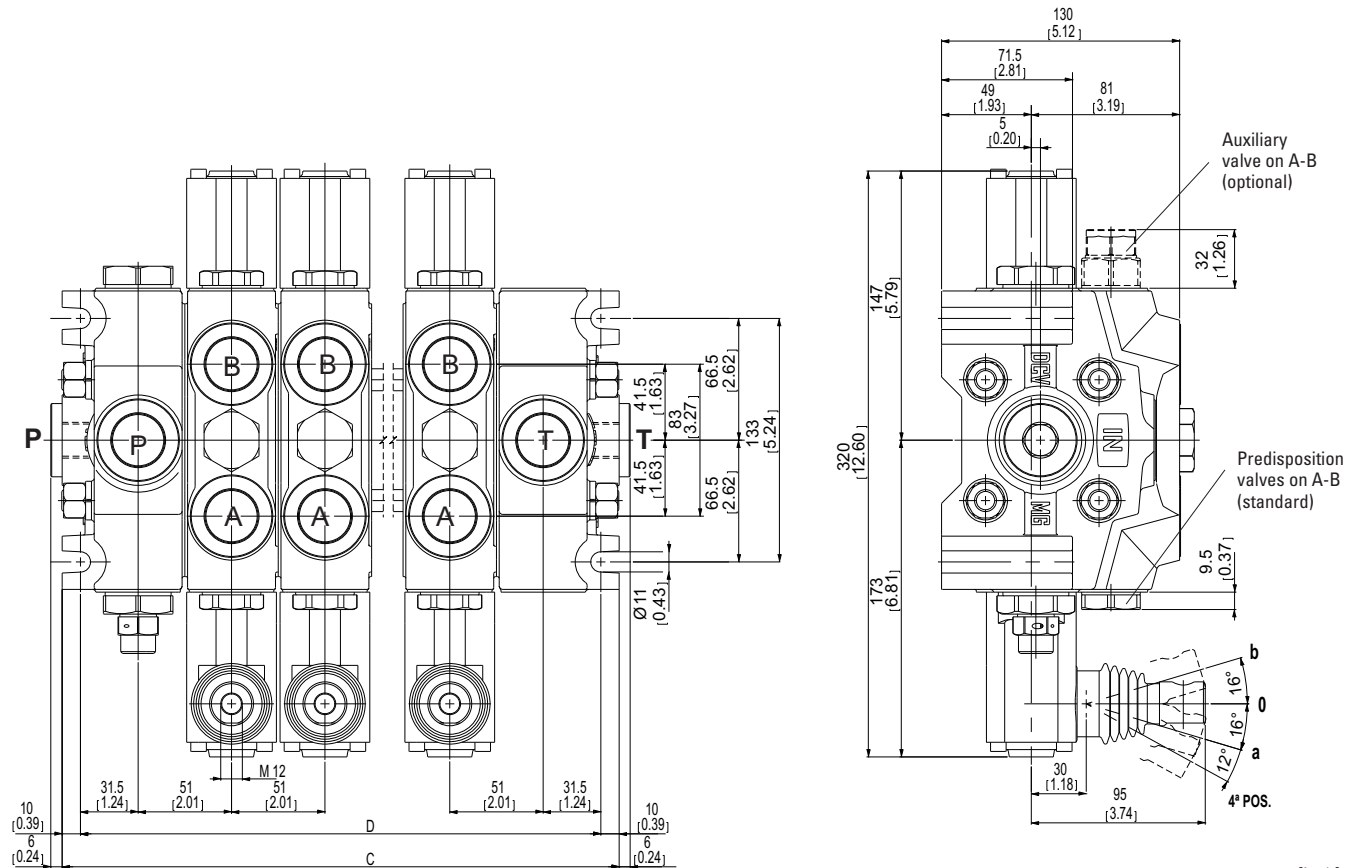
**Inlet pressure drop between A (B) → T
spool in working position**



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

MODULAR

OVERALL DIMENSIONS

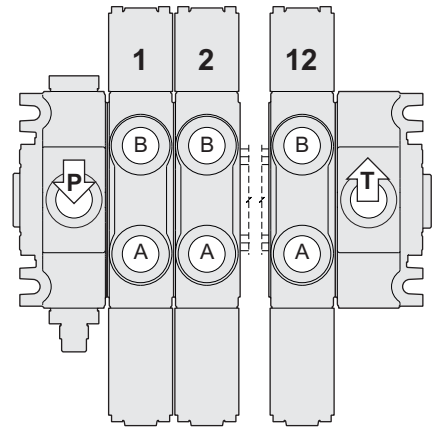
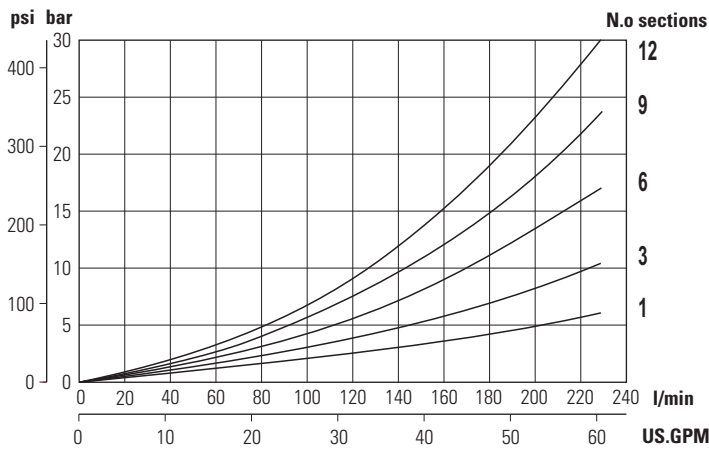


Tie-rod tightening torque: **75 Nm [55.3 lbf.ft]**

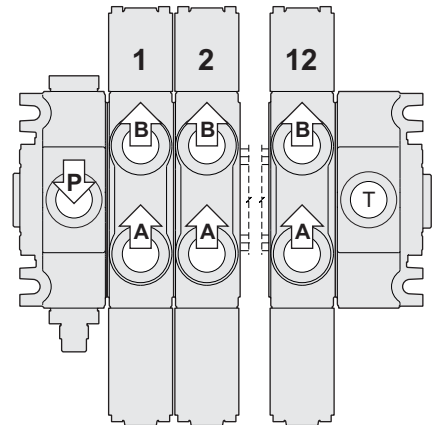
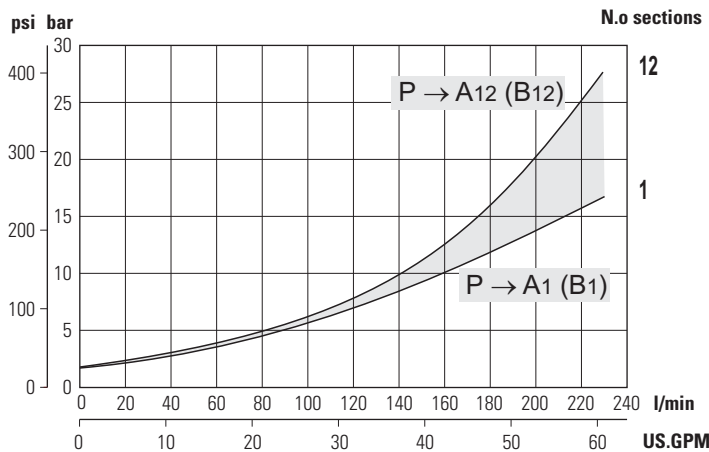
Type	C mm [inch]	D mm [inch]	Weight kg [lb]	Max flow l/min [GPM]	Max pressure BAR [psi]
DCV MG/1	185 [7.28]	165 [6.50]	16.00 [35.20]	230 [60.7]	350 [5075]
DCV MG/2	236 [9.29]	216 [8.50]	22.60 [49.72]		
DCV MG/3	287 [11.30]	267 [10.51]	29.20 [64.24]		
DCV MG/4	338 [13.31]	318 [12.52]	35.80 [78.76]		
DCV MG/5	389 [15.31]	368 [14.49]	42.40 [93.28]		
DCV MG/6	440 [17.32]	420 [16.54]	49.00 [107.80]		
DCV MG/7	491 [19.33]	461 [18.15]	55.60 [122.32]		
DCV MG/8	542 [21.34]	522 [20.55]	62.20 [136.84]		
DCV MG/9	593 [23.35]	573 [22.56]	68.80 [151.36]		
DCV MG/10	644 [25.35]	624 [24.57]	75.40 [165.88]		
DCV MG/11	695 [27.36]	675 [26.57]	82.00 [180.40]		
DCV MG/12	746 [29.37]	726 [28.58]	88.60 [194.92]		

CHARACTERISTIC PRESSURE DROP FLOW CURVES

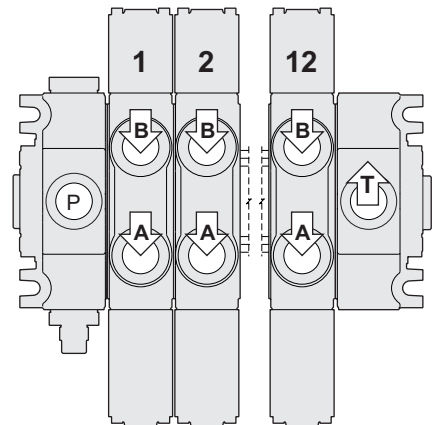
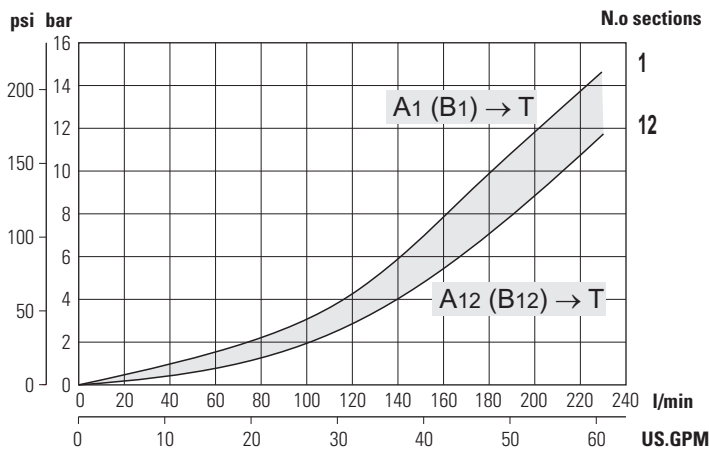
**Inlet pressure drop between P → T
spool in central position**



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



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



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

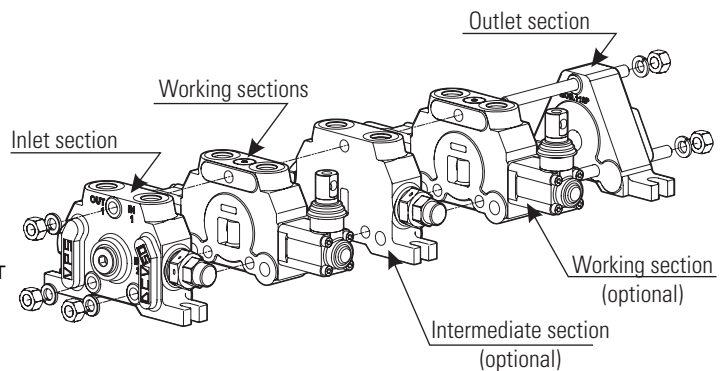
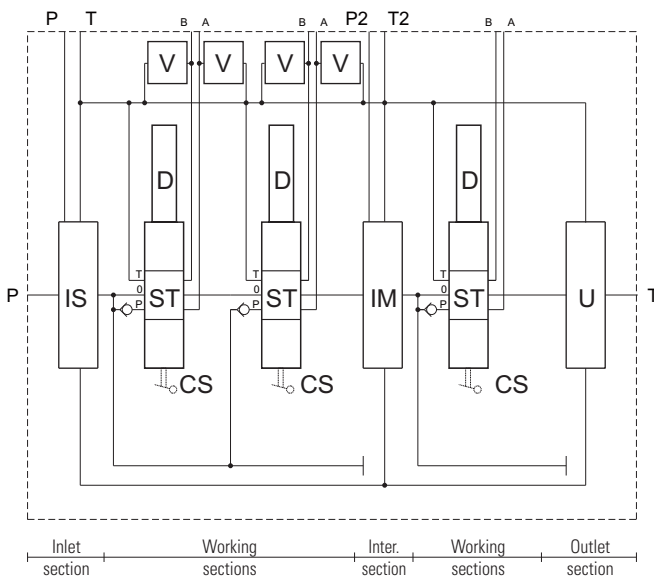
MODULAR

Ordering code

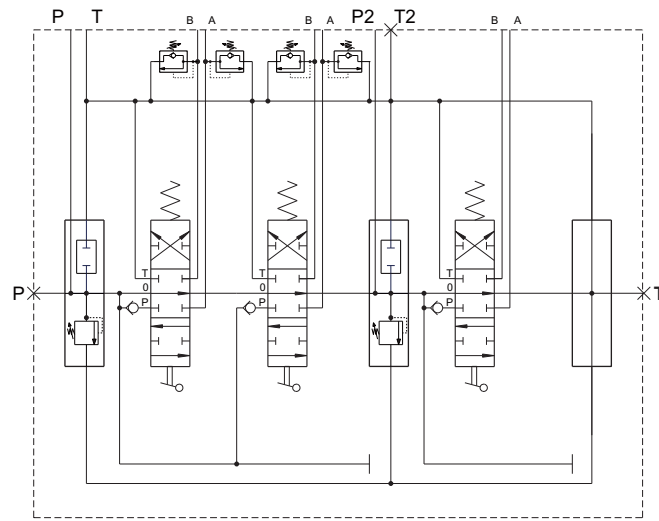
Model	Inlet section	Working sections (repeat for any section)														Intern. section	(1)	Outlet section																																															
DCV	**	*	I*	***	(***)	*	F*	ST**	CS**	D**	VA*(**)	VB*(**)	AP*	F*	W*	Xn.	IM*	F*	(1)	U*	F*																																												
<table border="1"> <thead> <tr> <th>Description</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>Size (30 50 80 MG)</td> <td>26-28</td> </tr> <tr> <td>N.o working sections</td> <td>30-32</td> </tr> <tr> <td>Inlet type</td> <td>36</td> </tr> <tr> <td>Valves arrangement</td> <td>37</td> </tr> <tr> <td>Main relief valve setting (1)</td> <td>37</td> </tr> <tr> <td>Port location</td> <td>38</td> </tr> <tr> <td>Threads</td> <td>38</td> </tr> <tr> <td>Spool</td> <td>39</td> </tr> <tr> <td>Spool control side A</td> <td>40</td> </tr> <tr> <td>Positioning / Control side B</td> <td>45</td> </tr> <tr> <td>Auxiliary valve on port A (1)</td> <td>50</td> </tr> <tr> <td>Auxiliary valve on port B (1)</td> <td>50</td> </tr> <tr> <td>Circuit</td> <td>51</td> </tr> <tr> <td>Threads</td> <td>53</td> </tr> <tr> <td>Hand lever (1)</td> <td>53</td> </tr> <tr> <td>Working section repeated for n. times</td> <td>53</td> </tr> <tr> <td>Intermediate (1)</td> <td>54</td> </tr> <tr> <td>Threads</td> <td>58</td> </tr> <tr> <td>Others working section (1)</td> <td>—</td> </tr> <tr> <td>Outlet</td> <td>59</td> </tr> <tr> <td>Threads</td> <td>62</td> </tr> </tbody> </table>																						Description	Page	Size (30 50 80 MG)	26-28	N.o working sections	30-32	Inlet type	36	Valves arrangement	37	Main relief valve setting (1)	37	Port location	38	Threads	38	Spool	39	Spool control side A	40	Positioning / Control side B	45	Auxiliary valve on port A (1)	50	Auxiliary valve on port B (1)	50	Circuit	51	Threads	53	Hand lever (1)	53	Working section repeated for n. times	53	Intermediate (1)	54	Threads	58	Others working section (1)	—	Outlet	59	Threads	62
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(1) ----- Optional fields. Not specify if not required.

HYDRAULIC SCHEME



ORDERING CODE EXAMPLE



DCV30/3	IS	001	(200)	S	F3	ST1	CS1	D4	VA3(150)	VB3(150)	AP1	F3	X2	IME	001	(200)	F3	ST1	CS1	D1	AP1	F3	US	F3
---------	----	-----	-------	---	----	-----	-----	----	----------	----------	-----	----	----	-----	-----	-------	----	-----	-----	----	-----	----	----	----

- DCV 30/3** - Modular valve DCV30 3 sections
- IS** - Left hand inlet
- 001** - Valves arrangement : Pilot-operated main relief valve (side A) + Valve seat with plug (side B)
- (200)** - Valve setting 200 BAR
- S** - Top inlet
- F3** - Threads 3/8" BSP
- ST1** - Spool 3 positions, double acting
- CS1** - Spool control side A, standard
- D4** - Spool positioning side B, 3 positions, spring centred spool, detent in "b"
- VA3** - Service port valves - Combined valve in "A" port
- (150)** - Valve setting 150 BAR
- VB3** - Service port valves - Combined valve in "B" port
- (150)** - Valve setting 150 bar
- AP1** - Parallel circuit
- F3** - Threads 3/8" BSP
- X2** - Working section repeated for n. 2 times
- IME** - Intermediate section - parallel circuit
- 001** - Valves arrangement : Pilot-operated main relief valve (side A) + Valve seat with plug (side B)
- (200)** - Valve setting 200 BAR
- F3** - Threads 3/8" BSP
- ST1** - Spool 3 positions, double acting
- CS1** - Spool control side A with standard lever
- D1** - Spool positioning side B, 3 positions, spring centred spool
- AP1** - Parallel circuit
- F3** - Threads 3/8" BSP
- US** - Top outlet
- F3** - Threads 3/8" BSP

MODULAR

Inlet type

DCV ** / * **I*** *** (***) * F* ST** CS** D** VA**(**) VB*(**) AP* F* W* Xn IM* F* .. U* F*

I* Inlet type

*	Description	Drawing
IS	Left hand inlet	
ID	Right hand inlet	

MODULAR

Valves arrangement
Main relief valve setting (bar)

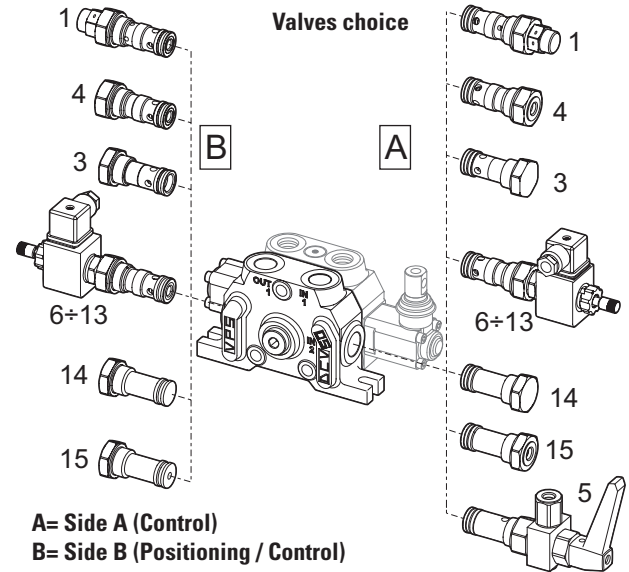
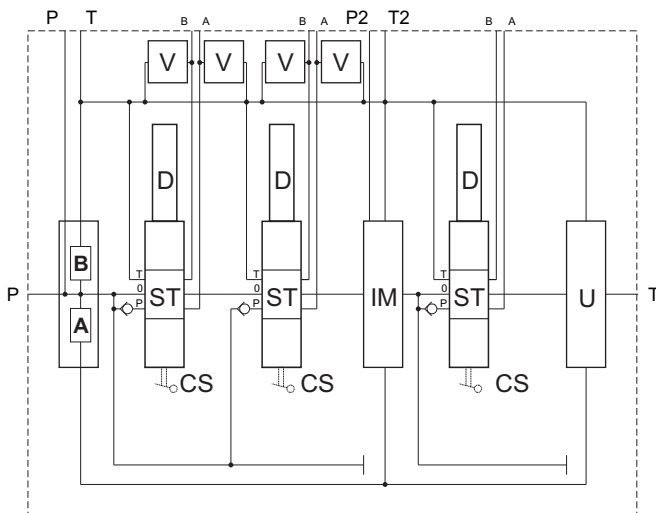
DCV ** / * | * ******* | ******* | * F* ST** CS** D** VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* F*

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

***	(**)	Arrangements		***	(**)	Arrangements	
		A*	B*			A*	B*
060	(1)	A1	B3	036	(1)	A10	B1
057	(1)	A1	B4	037	(1)	A11	B1
002	(1)	A1	B6 (2)	038	(1)	A12	B1
003	(1)	A1	B7 (2)	039	(1)	A13	B1
004	(1)	A1	B8 (2)	059	(1)	A14	B1
005	(1)	A1	B9 (2)	013	—	A14	B6 (2)
006	(1)	A1	B10 (2)	014	—	A14	B7 (2)
007	(1)	A1	B11 (2)	015	—	A14	B8 (2)
008	(1)	A1	B12 (2)	016	—	A14	B9 (2)
009	(1)	A1	B13 (2)	017	—	A14	B10 (2)
001	(1)	A1	B14	018	—	A14	B11 (2)
010	(1)	A1	B15	019	—	A14	B12 (2)
021	—	A4	B3	020	—	A14	B13 (2)
022	—	A4	B6 (2)	011	—	A14	B14
023	—	A4	B7 (2)	012	—	A14	B15
024	—	A4	B8 (2)	040	(1)	A15	B1
025	—	A4	B9 (2)	042	—	A15	B3
026	—	A4	B10 (2)	041	—	A15	B4
027	—	A4	B11 (2)	043	—	A15	B6 (2)
028	—	A4	B12 (2)	044	—	A15	B7 (2)
029	—	A4	B13 (2)	045	—	A15	B8 (2)
030	—	A4	B14	046	—	A15	B9 (2)
031	—	A4	B15	047	—	A15	B10 (2)
051	—	A5	B1	048	—	A15	B11 (2)
052	—	A5	B14	049	—	A15	B12 (2)
053	—	A5	B15	050	—	A15	B13 (2)
032	(1)	A6	B1	058	—	A15	B14
033	(1)	A7	B1				
034	(1)	A8	B1				
035	(1)	A9	B1				

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

(2) Can not be used with electro-hydraulic control D15 ÷ D18. Mount the electric valve on side A.



1 (3)	Pilot-operated main relief valve	
3	Anticavitation valve	
4	External pilot-operated valve	
5	Cross or hydraulic brakes lock valve	
6	Solenoid dump valve 12V work NORMALLY OPEN	
8	Solenoid dump valve 24V work NORMALLY OPEN	
10	Solenoid dump valve 26V work NORMALLY OPEN	
12	Solenoid dump valve 30V work NORMALLY OPEN	
7	Solenoid dump valve 12V work NORMALLY CLOSED	
9	Solenoid dump valve 24V work NORMALLY CLOSED	
11	Solenoid dump valve 26V work NORMALLY CLOSED	
13	Solenoid dump valve 30V work NORMALLY CLOSED	
14	Valve seat with plug	
15	Pressure gauge connection	

(3) Direct operated main valve only for DCV30

(4) 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			

MODULAR

Port location

DCV ** / * | * : *** (***) * F* ST** CS** D** VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* F*

*** Port type**

*	Description	Drawing
S	Top inlet	
L	Side inlet	

----- (1) Only DCV30 - DCV50 - DCV80 (2) Only DCVMG

Threads

DCV ** / * | * : *** (***) * F* ST** CS** D** VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* F*

F* Inlet section threads

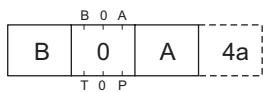
**	Description	DCV 30		DCV 50		DCV 80		DCV MG	
		P	T	P	T	P	T	P	T
F3	3/8" BSP	•	•						
F4	1/2" BSP			•	•	• ⁽³⁾	• ⁽³⁾		
F5	3/4" BSP					•	•		
F6	1" BSP							•	—
F31	9/16" - 18UNF (SAE6)	•	•						
F33	7/8" - 14UNF (SAE10)			•	•	• ⁽³⁾	• ⁽³⁾		
F34	1" 1/16 - 12UN (SAE12)					•	•		
F36	1" 5/16 - 12UN (SAE16)							•	—

(3) Threads availables on request

Spool

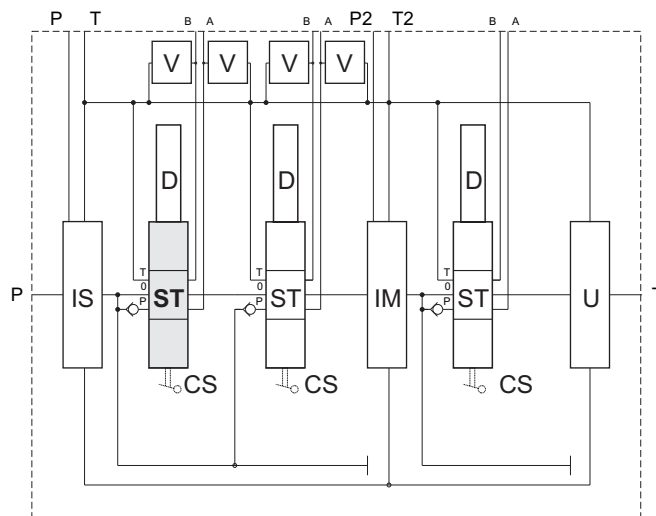
DCV ** / * I* *** (***) * F* **ST**** CS** D** VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* F*

ST Spool**



**	Description	Symbol
ST1 ST1G <small>(1)(2)</small>	3 positions, double acting	
ST2	3 positions, double acting, - no passage in 0 - A and B open	
ST3	3 positions, double acting, - no passage in 0 - A and B blocked	
ST4 ST4G <small>(1)</small>	3 positions, double acting, - A and B open	
ST5 ST5G <small>(1)</small>	3 positions, double acting, - A open - B blocked	
ST6 ST6G <small>(1)</small>	3 positions, double acting, - A blocked - B open	
ST7	3 positions, single acting in A	
ST8	3 positions, single acting in B	
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)	

(1) **STG** = Extra metering

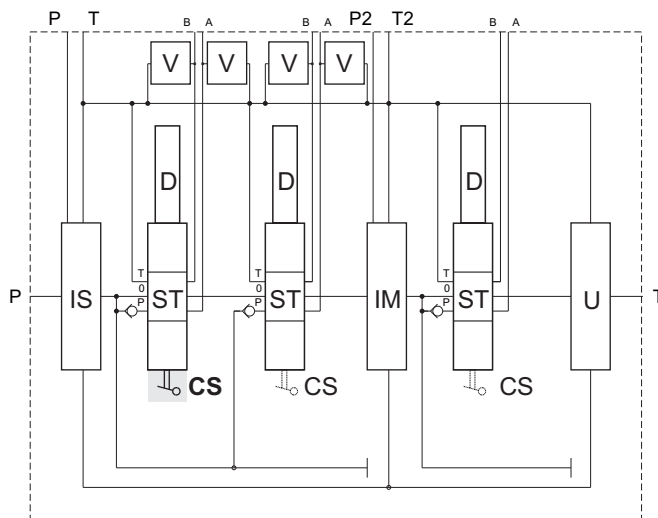


**	Description	Symbol
ST12	4 positions, double acting with 4th float position	
ST23	2 positions with function dead man (unactivated) in "a" position ; working position in "0"	
ST24	2 positions with function dead man (unactivated) in "b" position ; working position in "0"	
ST27	2 positions with function 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"	
ST13	3 positions, series circuit double-acting	
ST14	3 positions, series circuit double-acting - A open - B blocked	
ST15	3 positions, series circuit double-acting - A and B open	
ST16	3 positions, series circuit double-acting - A blocked - B open	

MODULAR

Spool control side A

DCV ** / * I* *** (***) * F* ST** **CS**** D** VA*(**) VB*(**) AP* F* W* Xn IM* F* .. U* F*



CS** Spool control side A

**	Description	Drawing																																															
CS1 CSA1 <small>(1)</small>	Standard handle 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th rowspan="2">B</th> <th colspan="2">CS1</th> <th colspan="2">CSA1</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</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 50</td> <td>68</td> <td>2.68</td> <td>M10</td> <td>62.5</td> <td>2.46</td> <td>67.5</td> <td>2.66</td> </tr> <tr> <td>DCV 80</td> <td>83</td> <td>3.27</td> <td>M10</td> <td>74</td> <td>2.91</td> <td>79.5</td> <td>3.13</td> </tr> <tr> <td>DCV MG</td> <td>95</td> <td>3.74</td> <td>M12</td> <td>90</td> <td>3.54</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		A		B	CS1		CSA1		mm	inch	mm	inch	mm	inch	DCV 30	64	2.52	M8	55	2.17	—	—	DCV 50	68	2.68	M10	62.5	2.46	67.5	2.66	DCV 80	83	3.27	M10	74	2.91	79.5	3.13	DCV MG	95	3.74	M12	90	3.54	—	—
					A			B	CS1		CSA1																																						
				mm	inch	mm	inch		mm	inch																																							
			DCV 30	64	2.52	M8	55	2.17	—	—																																							
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DCV 80	83	3.27	M10	74	2.91	79.5	3.13																																										
DCV MG	95	3.74	M12	90	3.54	—	—																																										
CS2 CSA2 <small>(1)</small>	Handle at 180° 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th rowspan="2">B</th> <th colspan="2">CS2</th> <th colspan="2">CSA2</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</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 50</td> <td>68</td> <td>2.68</td> <td>M10</td> <td>62.5</td> <td>2.46</td> <td>67.5</td> <td>2.66</td> </tr> <tr> <td>DCV 80</td> <td>83</td> <td>3.27</td> <td>M10</td> <td>74</td> <td>2.91</td> <td>79.5</td> <td>3.13</td> </tr> <tr> <td>DCV MG</td> <td>95</td> <td>3.74</td> <td>M12</td> <td>90</td> <td>3.54</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		A		B	CS2		CSA2		mm	inch	mm	inch	mm	inch	DCV 30	64	2.52	M8	55	2.17	—	—	DCV 50	68	2.68	M10	62.5	2.46	67.5	2.66	DCV 80	83	3.27	M10	74	2.91	79.5	3.13	DCV MG	95	3.74	M12	90	3.54	—	—
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CS3	Without handle 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th colspan="2">B</th> <th colspan="2">C</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>41</td> <td>1.61</td> <td>11</td> <td>0.43</td> <td>6</td> <td>0.24</td> </tr> <tr> <td>DCV 50</td> <td>50</td> <td>1.97</td> <td>16</td> <td>0.63</td> <td>9</td> <td>0.35</td> </tr> <tr> <td>DCV 80</td> <td>59.5</td> <td>2.34</td> <td>17.5</td> <td>0.69</td> <td>9</td> <td>0.35</td> </tr> <tr> <td>DCV MG</td> <td>72</td> <td>2.83</td> <td>0.69</td> <td>0.75</td> <td>9</td> <td>0.35</td> </tr> </tbody> </table>		A		B		C		mm	inch	mm	inch	mm	inch	DCV 30	41	1.61	11	0.43	6	0.24	DCV 50	50	1.97	16	0.63	9	0.35	DCV 80	59.5	2.34	17.5	0.69	9	0.35	DCV MG	72	2.83	0.69	0.75	9	0.35					
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CS4	Hydraulic control - Max pilot pressure 35 bar 508 psi 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th rowspan="2">B</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>59</td> <td>2.32</td> <td>1/4" BSP</td> </tr> <tr> <td>DCV 50</td> <td>68</td> <td>2.68</td> <td>1/4" BSP</td> </tr> <tr> <td>DCV 80</td> <td>87</td> <td>3.43</td> <td>1/4" BSP</td> </tr> <tr> <td>DCV MG</td> <td>80</td> <td>3.15</td> <td>1/4" BSP</td> </tr> </tbody> </table>		A		B	mm	inch	mm	DCV 30	59	2.32	1/4" BSP	DCV 50	68	2.68	1/4" BSP	DCV 80	87	3.43	1/4" BSP	DCV MG	80	3.15	1/4" BSP																							
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(1) **CSA** = Aluminium version (only DCV50 - DCV80)

CS** Spool control side A

**	Description	Drawing																														
CS5 CSA5 <i>(1)</i>	Safety handle locked in neutral position 	 <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 30</td> <td>200</td> <td>7.87</td> <td>73</td> <td>2.87</td> </tr> <tr> <td>DCV 50</td> <td>220</td> <td>8.66</td> <td>81</td> <td>3.19</td> </tr> <tr> <td>DCV 80</td> <td>245</td> <td>9.65</td> <td>102</td> <td>4.02</td> </tr> <tr> <td>DCV MG</td> <td>260</td> <td>10.24</td> <td>119.5</td> <td>4.70</td> </tr> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 30	200	7.87	73	2.87	DCV 50	220	8.66	81	3.19	DCV 80	245	9.65	102	4.02	DCV MG	260	10.24	119.5	4.70
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CS7 CSA7 <i>(1)</i>	Security handle locked in position "b" 	 <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 30</td> <td>200</td> <td>7.87</td> <td>73</td> <td>2.87</td> </tr> <tr> <td>DCV 50</td> <td>220</td> <td>8.66</td> <td>81</td> <td>3.19</td> </tr> <tr> <td>DCV 80</td> <td>245</td> <td>9.65</td> <td>102</td> <td>4.02</td> </tr> <tr> <td>DCV MG</td> <td>260</td> <td>10.24</td> <td>119.5</td> <td>4.70</td> </tr> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 30	200	7.87	73	2.87	DCV 50	220	8.66	81	3.19	DCV 80	245	9.65	102	4.02	DCV MG	260	10.24	119.5	4.70
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CS9 CSA9 <i>(1)</i>	Security handle locked in 4th position 	 <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 30</td> <td>200</td> <td>7.87</td> <td>73</td> <td>2.87</td> </tr> <tr> <td>DCV 50</td> <td>220</td> <td>8.66</td> <td>81</td> <td>3.19</td> </tr> <tr> <td>DCV 80</td> <td>245</td> <td>9.65</td> <td>102</td> <td>4.02</td> </tr> <tr> <td>DCV MG</td> <td>260</td> <td>10.24</td> <td>119.5</td> <td>4.70</td> </tr> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 30	200	7.87	73	2.87	DCV 50	220	8.66	81	3.19	DCV 80	245	9.65	102	4.02	DCV MG	260	10.24	119.5	4.70
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(1) **CSA** = Aluminium version (only DCV50 - DCV80)

MODULAR

CS** Spool control side A

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CS12 (CX) <i>(1)</i>	Cloche control at 90° with fulcrum on the downstream for left inlet section and upstream for right inlet section (not available on DCV MG)	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">L</th> <th colspan="2">D</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>285</td> <td>11.22</td> <td>3.5</td> <td>0.13</td> </tr> <tr> <td>DCV 50</td> <td>290</td> <td>11.42</td> <td>3</td> <td>0.11</td> </tr> <tr> <td>DCV 80</td> <td>308.5</td> <td>12.15</td> <td>4</td> <td>0.15</td> </tr> <tr> <td>DCV MG</td> <td>324</td> <td>12.76</td> <td>0</td> <td>0</td> </tr> </tbody> </table>		L		D		mm	inch	mm	inch	DCV 30	285	11.22	3.5	0.13	DCV 50	290	11.42	3	0.11	DCV 80	308.5	12.15	4	0.15	DCV MG	324	12.76	0	0
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(1) (CX) code required to use on 2th section

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

(3) CSA = Aluminium version (only DCV50 - DCV80)

CS** Spool control side A

**	Description	Drawing																																									
CS17 CSA17 (1)	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	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">CS17</th> <th colspan="2">CSA17</th> <th colspan="2">B</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>55</td> <td>2.17</td> <td>—</td> <td>—</td> <td>50.5</td> <td>1.99</td> </tr> <tr> <td>DCV 50</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> <tr> <td>DCV 80</td> <td>74</td> <td>2.91</td> <td>79.5</td> <td>3.13</td> <td>53</td> <td>2.09</td> </tr> <tr> <td>DCV MG</td> <td>90</td> <td>3.54</td> <td>—</td> <td>—</td> <td>58</td> <td>2.28</td> </tr> </tbody> </table>		CS17		CSA17		B		mm	inch	mm	inch	mm	inch	DCV 30	55	2.17	—	—	50.5	1.99	DCV 50	62.5	2.46	67.5	2.66	51.5	2.03	DCV 80	74	2.91	79.5	3.13	53	2.09	DCV MG	90	3.54	—	—	58	2.28
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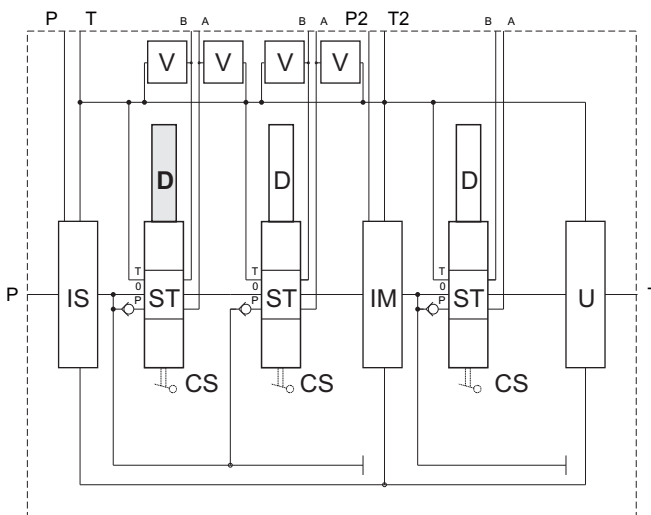
CS** Spool control side A

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CS21 CSA21 (1)	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	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">CS21</th> <th colspan="2">CSA21</th> <th colspan="2">B</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>55</td> <td>2.17</td> <td>—</td> <td>—</td> <td>50.5</td> <td>1.99</td> </tr> <tr> <td>DCV 50</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> <tr> <td>DCV 80</td> <td>74</td> <td>2.91</td> <td>79.5</td> <td>3.13</td> <td>53</td> <td>2.09</td> </tr> <tr> <td>DCV MG</td> <td>90</td> <td>3.54</td> <td>—</td> <td>—</td> <td>58</td> <td>2.28</td> </tr> </tbody> </table>		CS21		CSA21		B		mm	inch	mm	inch	mm	inch	DCV 30	55	2.17	—	—	50.5	1.99	DCV 50	62.5	2.46	67.5	2.66	51.5	2.03	DCV 80	74	2.91	79.5	3.13	53	2.09	DCV MG	90	3.54	—	—	58	2.28
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Positioning / Control side B

DCV ** / * I* *** (***) * F* ST** CS** **D**** VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* F*



D** Positioning / Control side B

**	Description	Drawing																																										
D1 DA1 (1)	3 positions, spring centred spool 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D1</th> <th colspan="2">A</th> <th colspan="2">DA1</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>38</td> <td>1.5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 50</td> <td>41.5</td> <td>1.63</td> <td>42</td> <td>1.65</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 80</td> <td>58</td> <td>2.28</td> <td>58</td> <td>2.28</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV MG</td> <td>65</td> <td>2.56</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		D1		A		DA1		mm	inch	mm	inch	mm	inch	DCV 30	38	1.5	—	—	—	—	DCV 50	41.5	1.63	42	1.65	—	—	DCV 80	58	2.28	58	2.28	—	—	DCV MG	65	2.56	—	—	—	—
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D4 DA4 (1)	3 positions, spring centred spool, detent in "b" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D4</th> <th colspan="2">A</th> <th colspan="2">DA4</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>63.5</td> <td>2.5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 50</td> <td>72.5</td> <td>2.85</td> <td>72.5</td> <td>2.85</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> <td>91</td> <td>3.58</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		D4		A		DA4		mm	inch	mm	inch	mm	inch	DCV 30	63.5	2.5	—	—	—	—	DCV 50	72.5	2.85	72.5	2.85	—	—	DCV 80	91	3.58	91	3.58	—	—	DCV MG	110	4.33	—	—	—	—
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D5 DA5 (1)	4 positions, spring centred spool, detent in 4th position 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D5</th> <th colspan="2">A</th> <th colspan="2">DA2</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>63.5</td> <td>2.5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 50</td> <td>72.5</td> <td>2.85</td> <td>72.5</td> <td>2.85</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> <td>91</td> <td>3.58</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		D5		A		DA2		mm	inch	mm	inch	mm	inch	DCV 30	63.5	2.5	—	—	—	—	DCV 50	72.5	2.85	72.5	2.85	—	—	DCV 80	91	3.58	91	3.58	—	—	DCV MG	110	4.33	—	—	—	—
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(1) **DA** = Aluminium version (only DCV50 - DCV80)

MODULAR

D** Positioning / Control side B

**	Description	Drawing																																										
D6 DA6 (1)	4 positions, spring centred spool, sensitive 4th position, without detent 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D6</th> <th colspan="2">A</th> <th colspan="2">DA6</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>63.5</td> <td>2.5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 50</td> <td>72.5</td> <td>2.85</td> <td>72.5</td> <td>2.85</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> <td>91</td> <td>3.58</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		D6		A		DA6		mm	inch	mm	inch	mm	inch	DCV 30	63.5	2.5	—	—	—	—	DCV 50	72.5	2.85	72.5	2.85	—	—	DCV 80	91	3.58	91	3.58	—	—	DCV MG	110	4.33	—	—	—	—
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D7 DA7 (1)	3 positions, spring centred spool, detent in "a" - "0" - "b" 		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">D7</th> <th colspan="2">A</th> <th colspan="2">DA7</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>63.5</td> <td>2.5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 50</td> <td>72.5</td> <td>2.85</td> <td>72.5</td> <td>2.85</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> <td>91</td> <td>3.58</td> <td>—</td> <td>—</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		D7		A		DA7		mm	inch	mm	inch	mm	inch	DCV 30	63.5	2.5	—	—	—	—	DCV 50	72.5	2.85	72.5	2.85	—	—	DCV 80	91	3.58	91	3.58	—	—	DCV MG	110	4.33	—	—	—	—
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(1) **DA** = Aluminium version (only DCV50 - DCV80)

D** Positioning / Control side B

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D14	ON-OFF pneumatic control - Pilot pressure 5-10 bar 72.5-145 psi 		<table border="1"> <thead> <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> </thead> <tbody> <tr> <td>DCV 30</td> <td>111</td> <td>4.37</td> <td>1/8" BSP</td> <td></td> </tr> <tr> <td>DCV 50</td> <td>119.5</td> <td>4.70</td> <td>1/8" BSP</td> <td></td> </tr> <tr> <td>DCV 80</td> <td>143</td> <td>5.63</td> <td>1/8" BSP</td> <td></td> </tr> <tr> <td>DCV MG</td> <td>148</td> <td>5.83</td> <td>1/8" BSP</td> <td></td> </tr> </tbody> </table>		A		B			mm	inch	mm	inch	DCV 30	111	4.37	1/8" BSP		DCV 50	119.5	4.70	1/8" BSP		DCV 80	143	5.63	1/8" BSP		DCV MG	148	5.83	1/8" BSP	
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(1) 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.

MODULAR

D** Positioning / Control side B

**	Description	Drawing																															
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(3) Valid only for the section following the first one

D** Positioning / Control side B

**	Description	Drawing																													
D25 DA25 <i>(1)</i>	Micro-switch 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	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 50</td> <td>70</td> <td>2.76</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> </tr> </tbody> </table>		A		mm	inch	DCV 50	70	2.76	DCV 80	91	3.58	DCV MG	110	4.33															
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D26 DA26 <i>(1)</i>	Micro-switch in "a" Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 50</td> <td>70</td> <td>2.76</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> </tr> </tbody> </table>		A		mm	inch	DCV 50	70	2.76	DCV 80	91	3.58	DCV MG	110	4.33															
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D27 DA27 <i>(1)</i>	Micro-switch in "b" Protection degree: IP67 Nominal rating: 0.1 ÷ 10 A / 250VAC Minimum rating: 1 mA / 4 VDC Operating temperature: -20 ÷ +85°C	<p>Cable length: 50 cm [19.69 inch]</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> </tr> <tr> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 50</td> <td>70</td> <td>2.76</td> </tr> <tr> <td>DCV 80</td> <td>91</td> <td>3.58</td> </tr> <tr> <td>DCV MG</td> <td>110</td> <td>4.33</td> </tr> </tbody> </table>		A		mm	inch	DCV 50	70	2.76	DCV 80	91	3.58	DCV MG	110	4.33															
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D40 <i>(2)</i>	Flexible cable control <i>(2)</i> 	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">A</th> <th colspan="2">B</th> </tr> <tr> <th>mm</th> <th>inch</th> <th>mm</th> <th>inch</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>81</td> <td>3.19</td> <td><i>(2)</i></td> <td><i>(2)</i></td> </tr> <tr> <td>DCV 50</td> <td>93</td> <td>3.66</td> <td><i>(2)</i></td> <td><i>(2)</i></td> </tr> <tr> <td>DCV 80</td> <td>108</td> <td>4.25</td> <td><i>(2)</i></td> <td><i>(2)</i></td> </tr> <tr> <td>DCV MG</td> <td>134</td> <td>5.28</td> <td><i>(2)</i></td> <td><i>(2)</i></td> </tr> </tbody> </table>		A		B		mm	inch	mm	inch	DCV 30	81	3.19	<i>(2)</i>	<i>(2)</i>	DCV 50	93	3.66	<i>(2)</i>	<i>(2)</i>	DCV 80	108	4.25	<i>(2)</i>	<i>(2)</i>	DCV MG	134	5.28	<i>(2)</i>	<i>(2)</i>
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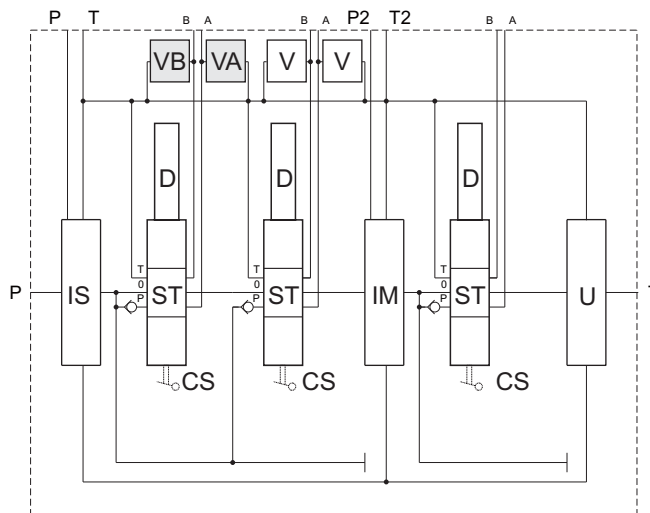
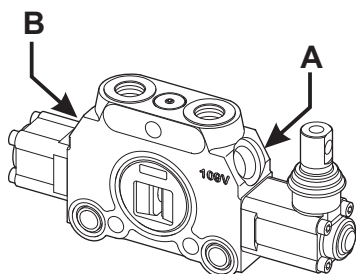
(1) **DA.** = Aluminium version (only DCV50 - DCV80)

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

MODULAR

Service port valves predisposition
(standard for DCV80 and DCVMG, optional for DCV30 and DCV50)

DCV ** / * | * *** (***) * F* ST** CS** D** **VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* F***



MODULAR

VA* VB* Service port valves ⁽²⁾

VA1 ⁽¹⁾	Overload valve in position "A"	
VA2	Anti-cavitation "A" port	
VA3 ⁽¹⁾	Combined valve in "A" port	
VA4	Prearranged for auxiliary valve in "A" with plug	

VB1 ⁽¹⁾	Overload valve in position "B"	
VB2	Anti-cavitation "B" port	
VB3 ⁽¹⁾	Combined valve in "B" port	
VB4	Prearranged for auxiliary valve in "B" with plug	

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

(2) Standard predisposition for DCV80 and DCV MG

Circuit

DCV ** / * | * *** (***) * F* ST** CS** D** VA**(**) VB**(**) **AP*** F* W* Xn IM* F* .. U* F*

AP* *Circuit*

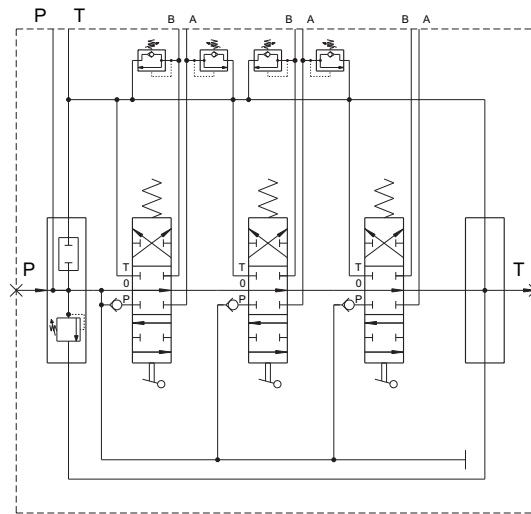
*	Description	Hydraulic circuit
AP1	<p>Parallel circuit (standard). All sections are fed in parallel. The section working with lower pressure has priority over the others; are possible simultaneous movements of two or more functions by reducing the oil flow on the others.</p>	
AP2	<p>Serie circuit (use with spool ST13 - ST14 - ST15 - ST16, see page 39). The oil returning from the actuator of the section SERIES can be used to feed the next working sections allowing the simultaneous handling of multiple sections. Working pressures of the individual sections are added together.</p>	
<p>AP3 + AP32 + AP4 (1)</p>	<p>Tandem circuit. It's composed of two or more working sections. The use of a first section (tandem upstream code AP3) has priority over all subsequent (if any other section upstream code AP32 or tandem downstream code AP4), preventing operation even with the spool activated.</p>	

(1) Optional section intermediate into tandem AP3 (upstream) and tandem AP4 (downstream)

MODULAR

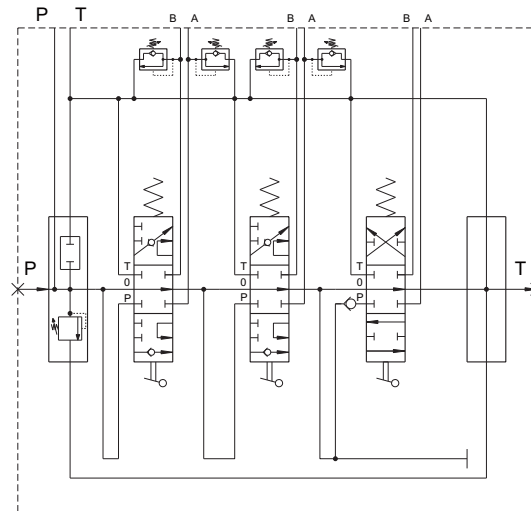
Example **PARALLEL** circuit

AP1 (+ AP1 + AP1)



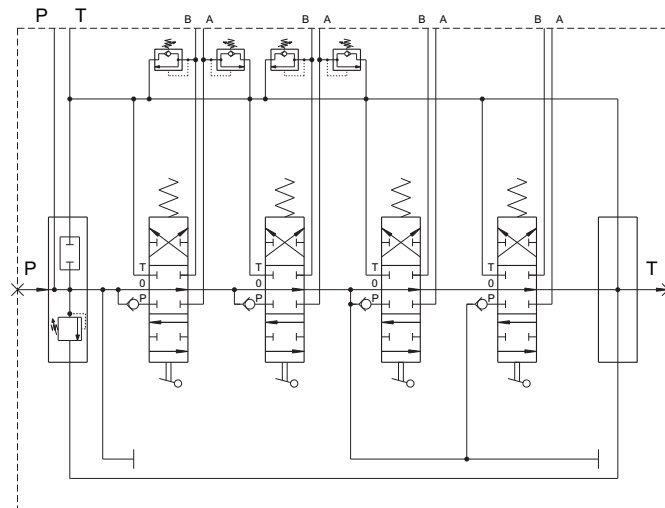
Example **SERIE** circuit

AP2 (+ AP2 + AP1)



Example **TANDEM** circuit

AP3 + AP32 + AP4 (+ AP1)



MODULAR

Threads

DCV ** / * | * *** (***) * F* ST** CS** D** VA**(**) VB*(**) AP* **F*** W* Xn IM* F* .. U* F*

F* Working sections threads

**	Description	DCV 30 A - B	DCV 50 A - B	DCV 80 A - B	DCV MG A - B
F3	3/8" BSP	•			
F4	1/2" BSP		•	• (1)	
F5	3/4" BSP			•	
F6	1" BSP				•
F31	9/16"-18UNF (SAE 6)	•			
F33	7/8"-14UNF (SAE 10)		•	• (1)	
F34	1" 1/16-12UN (SAE 12)			•	
F36	1" 5/16-12UN (SAE 16)				•

(1) Threads availables on request

Handle lever (Optional field)
Working section repeated for n. times (optional filed)

DCV ** / * | * *** (***) * F* ST** CS** D** VA**(**) VB*(**) AP* F* **W*** Xn IM* F* .. U* F*

W* Handle lever

**	Description	Drawing
W1	Standard DCV 30 (For cloche control use W2)	
W2	Standard DCV 50 - DCV 80	
W3	Standard DCV MG	

Circuit

DCV ** / * | * *** (***) * F* ST** CS** D** VA**(**) VB**(**) AP* F* W* Xn **IM*** F* .. U* F*

IM* *Circuito*

*	Description	Hydraulic circuit																																																						
IME	<p>Intermediate inlet section (valves combination see page 37). It permits an extra flow to downstream sections. It is also usable as intermediate element with a pressure relief valve to limit the pressure of all the downstream sections.</p>																																																							
	<p style="text-align: center;">DCV30 - DCV50 - DCV80</p>	<p style="text-align: center;">DCVMG</p>																																																						
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E min</th> <th>E max</th> <th>F</th> <th>P-T</th> </tr> <tr> <th></th> <th>mm [inch]</th> <th>mm [inch]</th> <th>mm [inch]</th> <th>mm [inch]</th> <th>mm [inch]</th> <th>mm [inch]</th> <th>mm [inch]</th> <th></th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>23 [0.91]</td> <td>23 [0.91]</td> <td>14 [0.55]</td> <td>16 [0.63]</td> <td>63 [2.48]</td> <td>89.5 [3.52]</td> <td>81.5 [3.21]</td> <td>3/8" BSP 9/16" - 18UNF (SAE6)</td> </tr> <tr> <td>DCV 50</td> <td>26.5 [1.04]</td> <td>26.5 [1.04]</td> <td>17 [0.67]</td> <td>19 [0.75]</td> <td>70 [2.76]</td> <td>95.5 [3.76]</td> <td>97 [3.82]</td> <td>1/2" BSP 7/8" - 14UNF (SAE10)</td> </tr> <tr> <td>DCV 80</td> <td>22 [0.87]</td> <td>35 [1.38]</td> <td>19 [0.75]</td> <td>21 [0.83]</td> <td>81 [3.19]</td> <td>106.5 [4.19]</td> <td>103 [4.06]</td> <td>3/4" BSP 7/8" - 14UNF (SAE10)</td> </tr> <tr> <td>DCVMG</td> <td>—</td> <td>—</td> <td>23 [0.91]</td> <td>25.5 [1.00]</td> <td>95 [3.74]</td> <td>116.5 [4.59]</td> <td>116 [4.57]</td> <td>1" BSP 1" 5/16 - 12UN (SAE16)</td> </tr> </tbody> </table>		A	B	C	D	E min	E max	F	P-T		mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]		DCV 30	23 [0.91]	23 [0.91]	14 [0.55]	16 [0.63]	63 [2.48]	89.5 [3.52]	81.5 [3.21]	3/8" BSP 9/16" - 18UNF (SAE6)	DCV 50	26.5 [1.04]	26.5 [1.04]	17 [0.67]	19 [0.75]	70 [2.76]	95.5 [3.76]	97 [3.82]	1/2" BSP 7/8" - 14UNF (SAE10)	DCV 80	22 [0.87]	35 [1.38]	19 [0.75]	21 [0.83]	81 [3.19]	106.5 [4.19]	103 [4.06]	3/4" BSP 7/8" - 14UNF (SAE10)	DCVMG	—	—	23 [0.91]	25.5 [1.00]	95 [3.74]	116.5 [4.59]	116 [4.57]	1" BSP 1" 5/16 - 12UN (SAE16)	
	A	B	C	D	E min	E max	F	P-T																																																
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DCVMG	—	—	23 [0.91]	25.5 [1.00]	95 [3.74]	116.5 [4.59]	116 [4.57]	1" BSP 1" 5/16 - 12UN (SAE16)																																																

----- (1) Only DCV30 - DCV50 - DCV80 (2) Only DCVMG

MODULAR

IM* *Circuit*

*	Description	Hydraulic circuit																																				
IMD (**)	Adjustable flow divider, pressure compensated with exceeding flow to tank. In the order specify the setting range (**).																																					
Setting range																																						
DCV30 - DCV50 - DCV80																																						
	<table border="1"> <thead> <tr> <th></th> <th>X mm [inch]</th> <th>Y mm [inch]</th> <th>S mm [inch]</th> <th>H mm [inch]</th> <th>I mm [inch]</th> <th>(**)</th> <th colspan="2">Setting range (Qr Max) l/min (l)</th> </tr> </thead> <tbody> <tr> <td>DCV 30</td> <td>51.5 [2.03]</td> <td>63.5 [2.50]</td> <td>32 [1.26]</td> <td>82 [3.23]</td> <td>36.5 [1.44]</td> <td>—</td> <td>6 ÷ 18</td> <td>0 ÷ 24</td> </tr> <tr> <td>DCV 50</td> <td>58 [2.28]</td> <td>60 [2.35]</td> <td>38 [1.5]</td> <td>108.5 [4.27]</td> <td>38.5 [1.52]</td> <td>—</td> <td>0 ÷ 24</td> <td>—</td> </tr> <tr> <td>DCV 80</td> <td>80 [3.15]</td> <td>91 [3.58]</td> <td>42 [1.65]</td> <td>105.5 [4.15]</td> <td>51.5 [2.03]</td> <td>0 ÷ 45</td> <td>8 ÷ 16</td> <td>30 ÷ 60</td> </tr> </tbody> </table>		X mm [inch]	Y mm [inch]	S mm [inch]	H mm [inch]	I mm [inch]	(**)	Setting range (Qr Max) l/min (l)		DCV 30	51.5 [2.03]	63.5 [2.50]	32 [1.26]	82 [3.23]	36.5 [1.44]	—	6 ÷ 18	0 ÷ 24	DCV 50	58 [2.28]	60 [2.35]	38 [1.5]	108.5 [4.27]	38.5 [1.52]	—	0 ÷ 24	—	DCV 80	80 [3.15]	91 [3.58]	42 [1.65]	105.5 [4.15]	51.5 [2.03]	0 ÷ 45	8 ÷ 16	30 ÷ 60	
	X mm [inch]	Y mm [inch]	S mm [inch]	H mm [inch]	I mm [inch]	(**)	Setting range (Qr Max) l/min (l)																															
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DCV 50	58 [2.28]	60 [2.35]	38 [1.5]	108.5 [4.27]	38.5 [1.52]	—	0 ÷ 24	—																														
DCV 80	80 [3.15]	91 [3.58]	42 [1.65]	105.5 [4.15]	51.5 [2.03]	0 ÷ 45	8 ÷ 16	30 ÷ 60																														

MODULAR

(1) Others setting ranges, please contact our sales department.

IM* *Circuit*

*	Description
<p>IMU</p>	<p style="text-align: center;">Hydraulic circuit</p>
	<p style="text-align: center;">DCV30</p>
	<p style="text-align: center;">DCV50</p>
<p style="text-align: center;">DCV80</p>	

	A	C	D	E	F	F1	G	H
	mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]	mm [inch]
DCV 30	—	—	—	—	—	32 [1.26]	51.5 [2.03]	80.5 [3.17]
DCV 50	72 [2.83]	13.5 [0.53]	9 [0.35]	17 [0.67]	—	36.5 [1.44]	83 [3.27]	97 [3.82]
DCV 80	85 [3.35]	16 [0.63]	11 [0.43]	19 [0.75]	—	41 [1.61]	95 [3.74]	87.5 [3.44]
DCV MG	—	—	—	23 [0.91]	25.5 [1.00]	—	83 [3.27]	116 [4.57]

MODULAR

IM* *Circuit*

*	Description	Hydraulic circuit																																							
IMU	Intermediate outlet section threaded (Specify the thread, field F)																																								
	DCV30⁽¹⁾	DCV50⁽¹⁾																																							
	DCV80⁽¹⁾	DCVMG																																							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">C</th> <th style="text-align: center;">E</th> <th style="text-align: center;">F</th> <th style="text-align: center;">H</th> <th style="text-align: center;">T</th> </tr> <tr> <th></th> <th style="text-align: center;">mm [inch]</th> <th style="text-align: center;">mm [inch]</th> <th style="text-align: center;">mm [inch]</th> <th style="text-align: center;">mm [inch]</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">DCV 30</td> <td style="text-align: center;">23 [0.91]</td> <td style="text-align: center;">16 [0.63]</td> <td style="text-align: center;">—</td> <td style="text-align: center;">81.5 [3.21]</td> <td style="text-align: center;">1/2" BSP 3/4" - 16UNF (SAE 8)</td> </tr> <tr> <td style="text-align: center;">DCV 50</td> <td style="text-align: center;">37 [1.46]</td> <td style="text-align: center;">19 [0.75]</td> <td style="text-align: center;">—</td> <td style="text-align: center;">97 [3.82]</td> <td style="text-align: center;">3/4" BSP 1" 1/16 - 12UN (SAE 12)</td> </tr> <tr> <td style="text-align: center;">DCV 80</td> <td style="text-align: center;">—</td> <td style="text-align: center;">21 [0.83]</td> <td style="text-align: center;">—</td> <td style="text-align: center;">115 [4.53]</td> <td style="text-align: center;">1" BSP 1" 5/16 - 12UN (SAE 16)</td> </tr> <tr> <td style="text-align: center;">DCVMG</td> <td style="text-align: center;">—</td> <td style="text-align: center;">23 [0.91]</td> <td style="text-align: center;">25.5 [1.00]</td> <td style="text-align: center;">116 [4.57]</td> <td style="text-align: center;">1" BSP 1" 5/16 12UN (SAE16)</td> </tr> </tbody> </table>						C	E	F	H	T		mm [inch]	mm [inch]	mm [inch]	mm [inch]		DCV 30	23 [0.91]	16 [0.63]	—	81.5 [3.21]	1/2" BSP 3/4" - 16UNF (SAE 8)	DCV 50	37 [1.46]	19 [0.75]	—	97 [3.82]	3/4" BSP 1" 1/16 - 12UN (SAE 12)	DCV 80	—	21 [0.83]	—	115 [4.53]	1" BSP 1" 5/16 - 12UN (SAE 16)	DCVMG	—	23 [0.91]	25.5 [1.00]	116 [4.57]	1" BSP 1" 5/16 12UN (SAE16)
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DCV 80	—	21 [0.83]	—	115 [4.53]	1" BSP 1" 5/16 - 12UN (SAE 16)																																				
DCVMG	—	23 [0.91]	25.5 [1.00]	116 [4.57]	1" BSP 1" 5/16 12UN (SAE16)																																				

MODULAR

(1) Work in progress

Threads
(omit for section: IMD and IMU without thread)

DCV ** / * I* *** (***) * F* ST** CS** D** VA**(**) VB*(**) AP* F* W* Xn IM* **F*** .. U* F*

F* *Threads IME intermediate section*

**	Description	DCV 30 P-T	DCV 50 P-T	DCV 80 P-T	DCV MG P-T
F3	3/8" BSP	•			
F4	1/2" BSP		•	• (1)	
F5	3/4" BSP			•	
F6	1" BSP				•
F31	9/16"-18UNF (SAE 6)	•			
F33	7/8"-14UNF (SAE 10)		•	•	
F36	1" 5/16-12UN (SAE 16)				•

(1) Threads availables on request

F* *Threads IMU intermediate section*

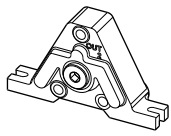
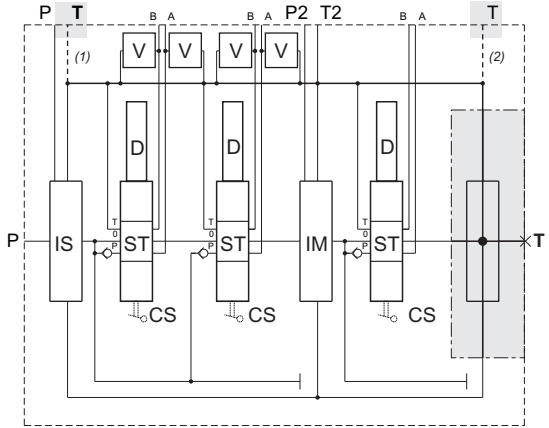
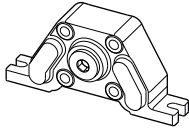
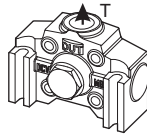
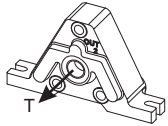
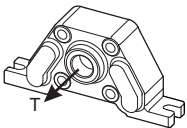
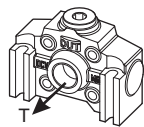
**	Description	DCV 30 T	DCV 50 T	DCV 80 T	DCV MG T
F4	1/2" BSP	•			
F5	3/4" BSP		•		
F6	1" BSP			•	•
F32	3/4" - 16UNF (SAE 8)	•			
F34	1" 1/16 - 12UN (SAE 12)		•		
F36	1" 5/16 - 12UN (SAE 16)			•	•

MODULAR

Outlet section

DCV ** / * I* *** (***) * F* ST** CS** D** VA*(**) VB*(**) AP* F* W* Xn IM* F* .. **U*** F*

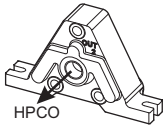
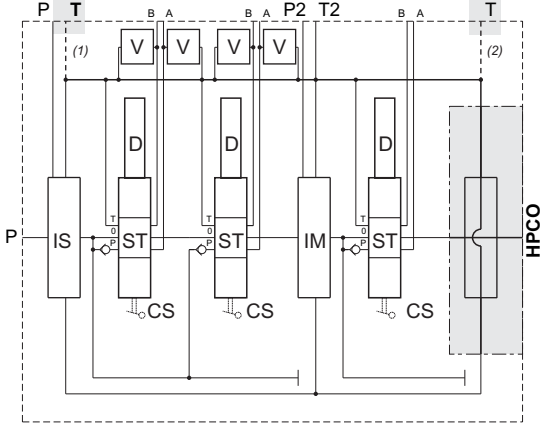
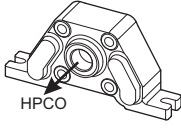
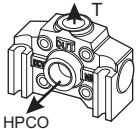
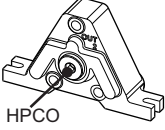

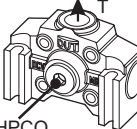
U* Circuit

*	Description	Type	Hydraulic circuit
US	Outlet section with upper T port on the inlet section	DCV 30 / DCV 50 	
		DCV 80 	
	Outlet section with upper T port	DCV MG 	
UL	Outlet section with lateral T port	DCV 30 / DCV 50 	
		DCV 80 	
	Outlet section with lateral T port	DCV MG 	

----- (1) Only DCV30 - DCV50 - DCV80 (2) Only DCV MG

MODULAR

U* *Circuit*

*	Description	Type	Hydraulic circuit
UL2	Outlet section with lateral HPCO port and T port on the inlet section	DCV 30 / DCV 50 	
		DCV 80 	
	Outlet section with lateral HPCO port and upper T port	DCV MG 	
UL2C	Outlet section for center closed (HPCO port closed). T port on the inlet section.	DCV 30 / DCV 50 	
		DCV 80 	
	Outlet section for center closed (HPCO port closed). Upper T port	DCV MG 	

----- (1) Only DCV30 - DCV50 - DCV80 (2) Only DCVMG

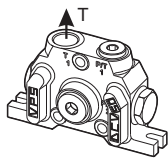
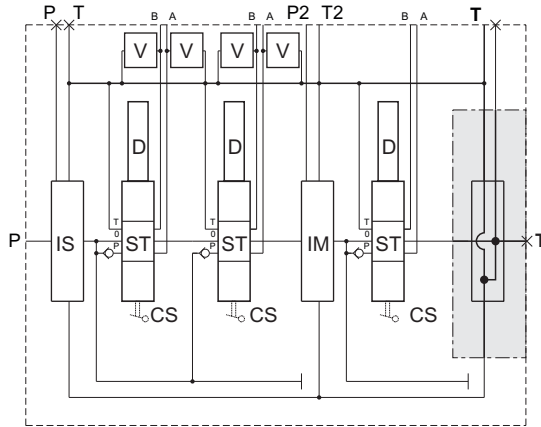
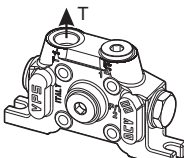
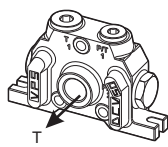
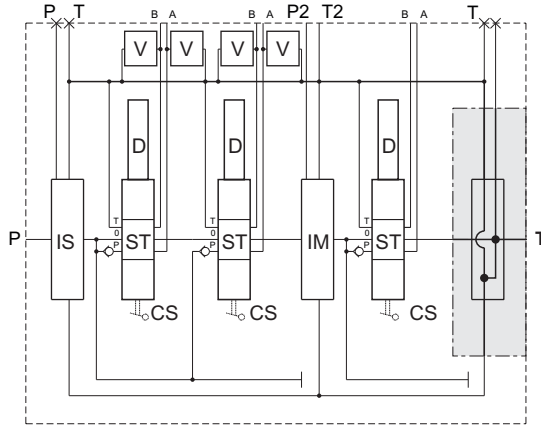
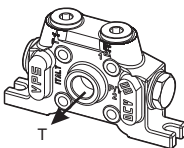
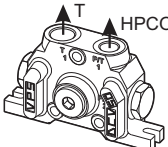
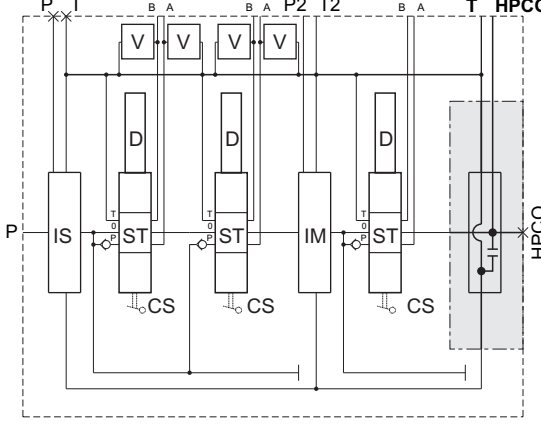
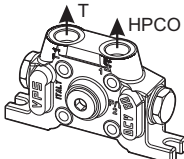
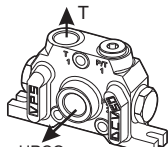
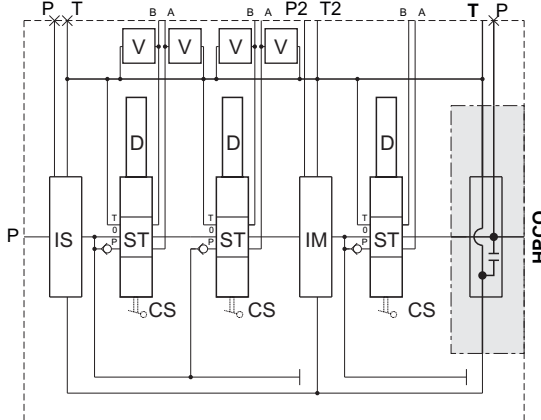
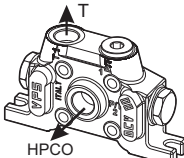
MODULAR

Outlet sections

in progress⁽¹⁾



U* *Circuit*

*	Description	Type	Hydraulic circuit
UB⁽¹⁾ Outlet section with upper T port		DCV 30 / DCV 50 	
		DCV 80 	
UC⁽¹⁾ Outlet section with lateral T port		DCV 30 / DCV 50 	
		DCV 80 	
UB2⁽¹⁾ Outlet section with T and HPCO upper ports		DCV 30 / DCV 50 	
		DCV 80 	
UC2⁽¹⁾ Outlet section with upper T port and HPCO lateral port		DCV 30 / DCV 50 	
		DCV 80 	

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(1) Work in progress

Outlet sections

in progress⁽¹⁾



Threads

DCV ** / * I* *** (***) * F* ST** CS** D** VA**(**) VB**(**) AP* F* W* Xn IM* F* .. U* **F***

F* Outlet section threads

Tipo	Outlet sections US - UL		Outlet section UL2			Outlet sections UB - UC ⁽¹⁾		Outlet section UB2 ⁽¹⁾			Outlet section UC2 ⁽¹⁾		
	**	T	**	T	HPCO	**	T	**	T	HPCO	**	T	HPCO
DCV 30	F3	3/8" BSP	F3	3/8" BSP	3/8" BSP	F4	1/2" BSP	F40	1/2" BSP	3/8" BSP	F4	1/2" BSP	1/2" BSP
	F31	9/16" - 18UNF (SAE 6)	F31	9/16" - 18UNF (SAE 6)	9/16" - 18UNF (SAE 6)	F32	3/4" - 16UNF (SAE 8)	F50	3/4" - 16UNF (SAE 8)	9/16" - 18UNF (SAE 6)	F32	3/4" - 16UNF (SAE 8)	3/4" - 16UNF (SAE 8)
DCV 50	F4	1/2" BSP	F4	1/2" BSP	1/2" BSP	F5	3/4" BSP	F41	3/4" BSP	1/2" BSP	F5	3/4" BSP	3/4" BSP
	F33	7/8" - 14UNF (SAE 10)	F33	7/8" - 14UNF (SAE 10)	7/8" - 14UNF (SAE 10)	F34	1" 1/16 - 12UN (SAE 12)	F51	1" 1/16 - 12UN (SAE 12)	7/8" - 14UNF (SAE 10)	F34	1" 1/16 - 12UN (SAE 12)	1" 1/16 - 12UN (SAE 12)
DCV 80	F5	3/4" BSP ⁽²⁾	F5	3/4" BSP ⁽²⁾	3/4" BSP	F5	3/4" BSP	F5	3/4" BSP	3/4" BSP	F5	3/4" BSP	3/4" BSP
	F34	1" 1/16 - 12UN (SAE 12) ⁽²⁾	F34	1" 1/16 - 12UN (SAE 12) ⁽²⁾	1" 1/16 - 12UN (SAE 12)	F34	1" 1/16 - 12UN (SAE 12)	F34	1" 1/16 - 12UN (SAE 12)	1" 1/16 - 12UN (SAE 12)	F34	1" 1/16 - 12UN (SAE 12)	1" 1/16 - 12UN (SAE 12)
DCV MG	F6	1" BSP	F6	1" BSP	1" BSP								
	F36	1" 5/16 - 12UN (SAE 16)	F36	1" 5/16 - 12UN (SAE 16)	1" 5/16 - 12UN (SAE 16)								

(1) Work in progress

(2) Threads availables on request

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Lined area for notes consisting of 22 horizontal lines.



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