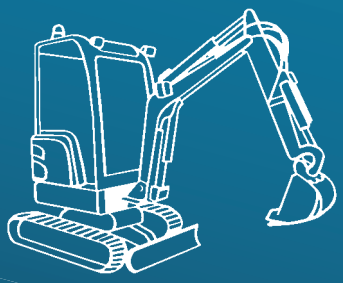
jihostroj
AERO TECHNOLOGY & HYDRAULICS



FLOW DIVIDERS

DP

from 2 up to 6 sections
balanced, unbalanced

Displacement from 0.8 to 31 ccm

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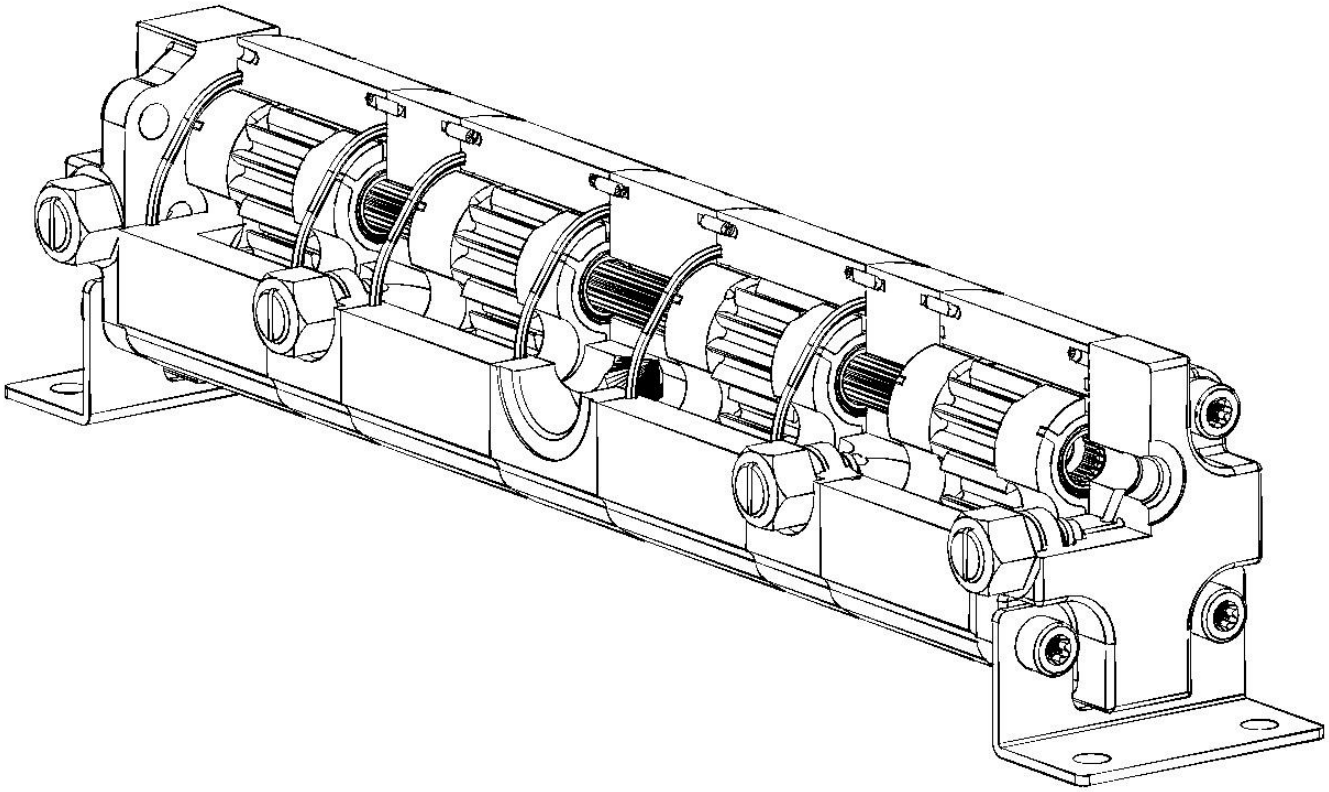


GENERAL DESCRIPTION

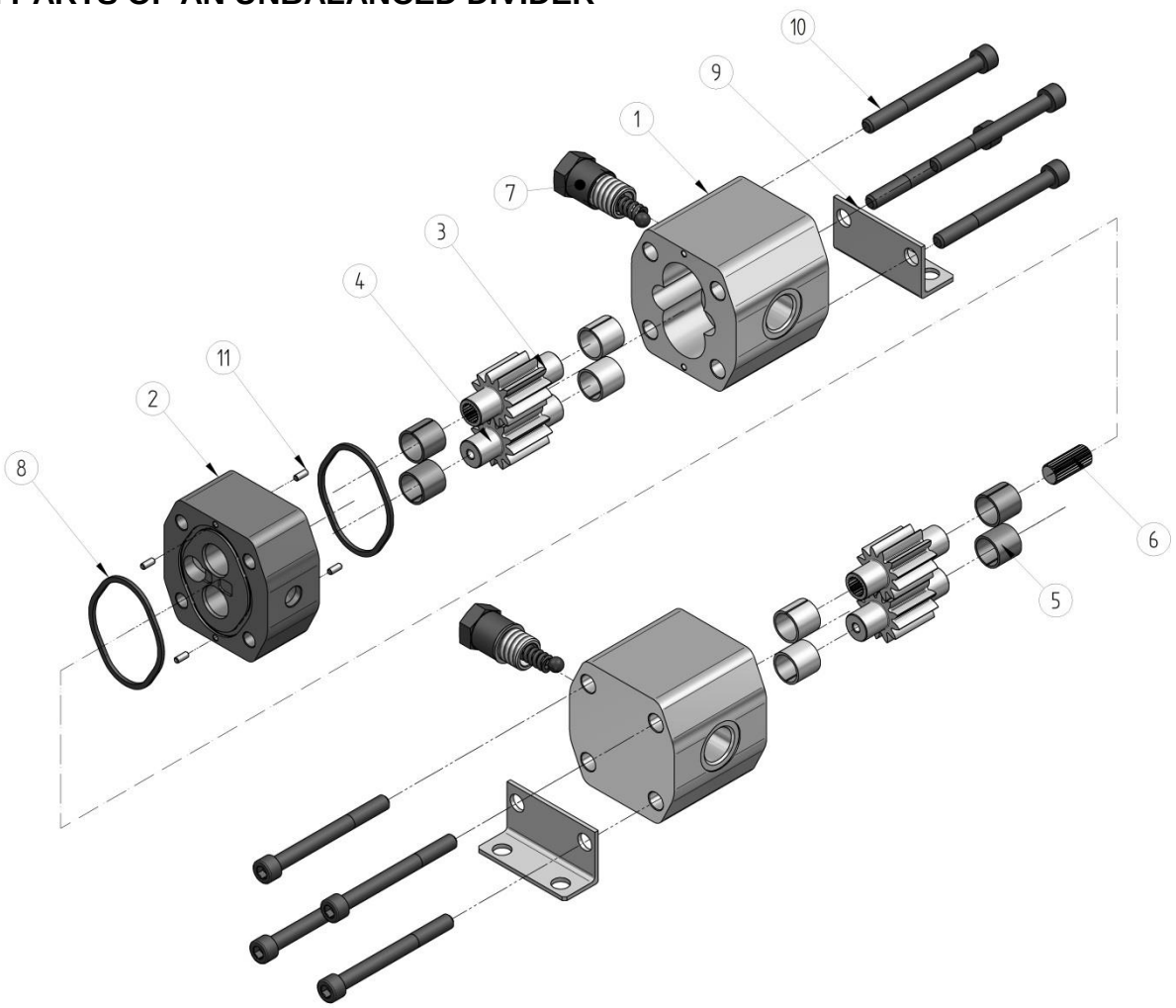
Rotary gear flow dividers by Jihostroj a.s., that have been proven in operation, ensure efficient and reliable functioning when used in a wide range of agricultural, handling and construction machinery. These flow dividers enable using a single hydraulic source in multiple useful applications:

- Synchronous operation of multi-cylinder engines or hydraulic motors (linear and rotary).
- Proportional division of a pump output flow into several circuits.
- Pressure boost if pressure exceeding pump capacity is required (without transfer valves).

Jihostroj a.s. produces rotary gear flow dividers of five basic series. Three of them have a fixed axial clearance (unbalanced) and two of them have pressure axial balance.

Flow dividers of the smallest DPVM series, middle-sized DPV2 series and large-sized DPVT series feature with robust cast-iron design, absence of hydraulic balance, and fixed axial clearance. Input of pressure liquid into the divider is located in the middle body to which individual divider sections are connected from both sides. As standard, the DPVM and DPVT series are offered with 2 to 4 sections whereas DPV2 series may have 2 to 6 sections. At the same time, smaller geometric volumes of the DPVT series in the range from 10 to 16 cm^3/rev can be made with up to 6 sections. Of course, it is also possible to supply dividers with an odd number of sections or with different geometric volumes according to a required proportion of the liquid flow distribution.

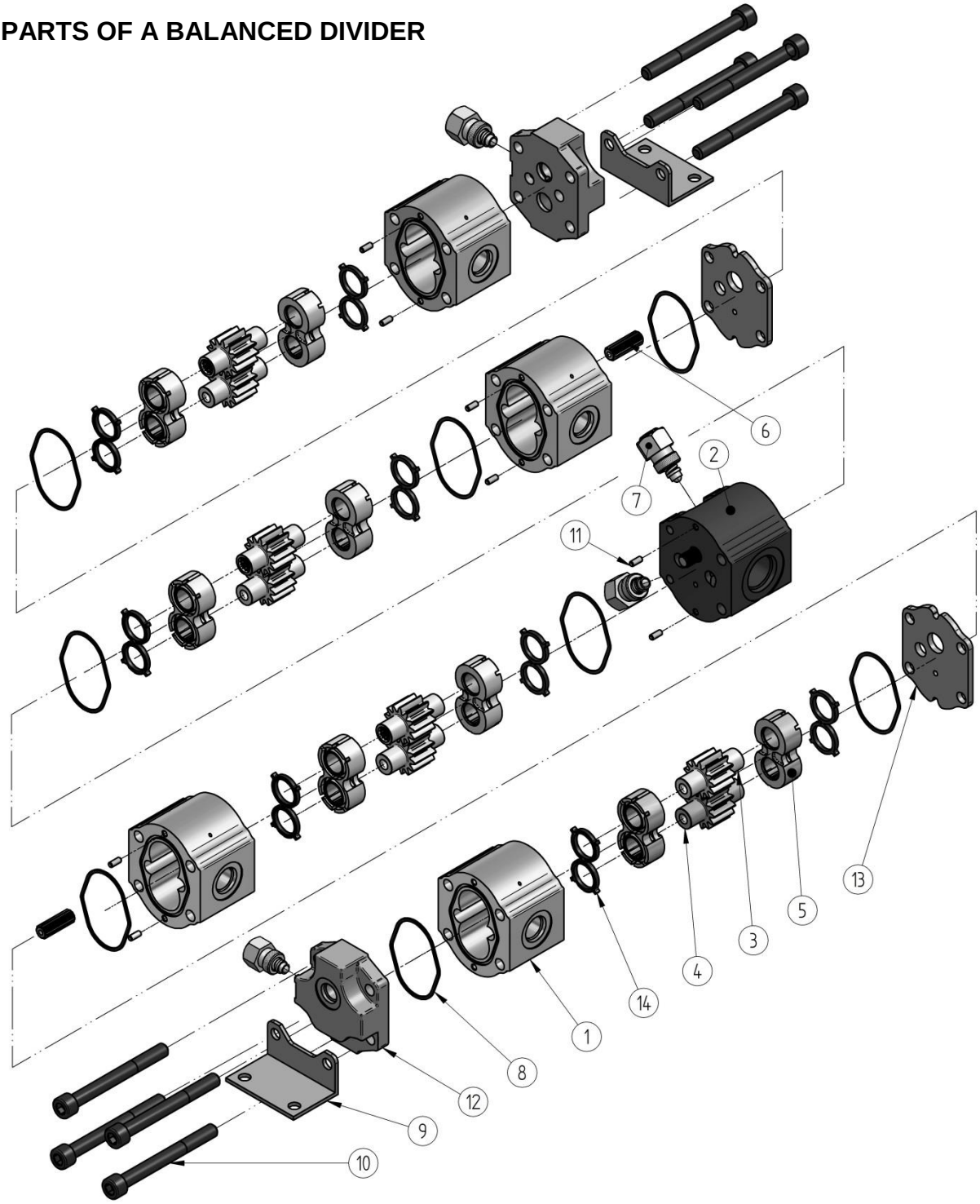
MAIN PARTS OF AN UNBALANCED DIVIDER



1. Bodies
2. Intermediate body
3. Driving wheels
4. Driven wheels
5. Bushings
6. Joining piece
7. Transfer valves
8. Peripheral seal
9. Mounting foots
10. Connecting bolts
11. Centering pins

The bodies of the flow dividers of the DPVJ and DPVT3 series are made of high strength aluminium alloy combined with grey iron cast lids. Cogwheels of the divider, made of high strength hardened steel, are seated in floating bearing faces which provide axial pressure balance of the divider, thus ensuring high accuracy division. The DPVJ series is offered with 2 to 6 sections. The DPVT3 series is offered with 2 to 4 sections. A great advantage of such a divider type is an easy and smooth start-up along with a high accuracy of flow division even below 2%. Another advantage is good division accuracy even at low speed (small divided quantity).

MAIN PARTS OF A BALANCED DIVIDER



1. Bodies
2. Intermediate body
3. Driving wheels
4. Driven wheels
5. Bearing faces
6. Joining pieces
7. Transfer valves
8 Peripheral seal
9. Mounting foots
10. Connecting bolts
11. Centering pins
12. Lids
13. Intermediate plates
14. Balance seal

TABLE OF PARAMETERS OF AN UNBALANCED DIVIDER

DPVM, DPV2

Nominal size parameters		Des.	Unit	DPVM 0.8	DPVM 1.0	DPVM 1.25	DPVM 1.5	DPV2 2.1	DPV2 3.2
Nominal geometric volume		V_g	[cm^3]	0.8	1.0	1.25	1.5	2.1	3.2
Speed	operating	n_n	[min^{-1}]	2500 to 6500		2200 to 6000		2000 to 4000	
	minimum	n_{min}	[min^{-1}]	1800		1500		1000	
	maximum	n_{max}	[min^{-1}]	7000		6500		4500	
Section flow	operating	Q_n	[$dm^3.min^{-1}$]	2.0 - 5.2	2.5 - 6.5	2.8 - 7.5	3.3 - 9.0	4.2 - 8.4	6.4 - 12.8
	minimum	Q_{min}	[$dm^3.min^{-1}$]	1.45	1.8	1.85	2.2	2.1	3.2
	maximum	Q_{max}	[$dm^3.min^{-1}$]	5.6	7.0	8.1	9.7	9.5	14.4
Input pressure	maximum	p_{1max}	[bar]	210				210	
	peak	p_{1n}	[bar]	250				260	
Output pressure	maximum	p_{2max}	[bar]	300				300	
	peak	p_{2n}	[bar]	320				340	
Oil temperature		To	[°C]	-20 to +80			-20 to +80	-20 to +80	
Ambient temperature		Tp	[°C]	-20 to +55			-20 to +55	-20 to +55	
Nominal division accuracy *		-	[%]	18	16	15		15	
Installation position				Any					

Nominal size parameters		Des.	Unit	DPV2 4.2	DPV2 5.3	DPV2 6.3	DPV2 7.4	DPV2 8.4	DPV2 10
Nominal geometric volume		V_g	[cm^3]	4.2	5.3	6.3	7.4	8.4	10
Speed	operating	n_n	[min^{-1}]	2000 to 4000			1500 to 3500		
	minimum	n_{min}	[min^{-1}]	1000			800		
	maximum	n_{max}	[min^{-1}]	4500			4000		
Section flow	operating	Q_n	[$dm^3.min^{-1}$]	8.4 - 16.8	10.5 - 21.2	12.6 - 25.9	11.1 - 25.9	12.6 - 29.4	15.0 - 35.0
	minimum	Q_{min}	[$dm^3.min^{-1}$]	4.2	5.3	6.3	6.0	6.7	8.0
	maximum	Q_{max}	[$dm^3.min^{-1}$]	18.9	23.8	28.3	29.6	33.6	40.0
Input pressure	maximum	p_{1max}	[bar]	210					
	peak	p_{1n}	[bar]	260					
Output pressure	maximum	p_{2max}	[bar]	300					
	peak	p_{2n}	[bar]	340					
Oil temperature		To	[°C]	-20 to +80					
Ambient temperature		Tp	[°C]	-20 to +55					
Nominal division accuracy *		-	[%]	15		13	10		
Installation position				Any					

* - at the DPV2 dividers, measurement is carried out at the speed of 3000 rpm and a nominal pressure gradient of 100 bar between the sections
* - at the DPVM dividers, measurement is carried out at the speed of 4500 rpm and a nominal pressure gradient of 100 bar between the sections
the parameter values are applicable at the liquid temperature of 40°C and kinematic viscosity $(35 \pm 5)_*10^{-6}$ [$m^2{}_*s^{-1}$]

DPVT

Nominal size parameters		Des.	Unit	DPVT 10	DPVT 13	DPVT 16	DPVT 20	DPVT 22	DPVT 25
Nominal geometric volume		V_g	[cm^3]	10	13	16	20	22	25
Speed	operating	n_n	[min^{-1}]	1800 to 3500			1700 to 3300		
	minimum	n_{min}	[min^{-1}]	800			700		
	maximum	n_{max}	[min^{-1}]	4000			3800		
Section flow	operating	Q_n	[$dm^3.min^{-1}$]	18-35	23.4-45.5	28.8-56	34-66	37.4-72.6	42.5-82.5
	minimum	Q_{min}	[$dm^3.min^{-1}$]	8	10.4	12.8	14.0	15.4	17.5
	maximum	Q_{max}	[$dm^3.min^{-1}$]	40	52.0	64.0	76.0	83.6	95.0
Input pressure	maximum	p_{1max}	[bar]	210			200		
	peak	p_{1n}	[bar]	260			240		
Output pressure	maximum	p_{2max}	[bar]	300			260		
	peak	p_{2n}	[bar]	340			300		
Oil temperature		To	[°C]	- 20 to + 80					
Ambient temperature		Tp	[°C]	- 20 to + 55					
Nominal division accuracy in 2 sections *		-	[%]	11		10		8	
Nominal division accuracy in more sections *		-	[%]	13		12		10	
Installation position				Any					

* - measured at the speed of 2500 rpm and nominal pressure gradient of 100 bar between sections
- the parameter values are applicable at the liquid temperature of 40°C and kinematic viscosity $(35 \pm 5) \cdot 10^{-6}$ [$m^2 \cdot s^{-1}$]

TABLE OF PARAMETERS OF A BALANCED DIVIDER

DPVJ

Nominal size parameters		Des.	Unit	DPVJ 3	DPVJ 4	DPVJ 6	DPVJ 8	DPVJ 10	DPVJ 12	DPVJ 15
Nominal geometric volume		V_g	[cm^3]	3	4	6	8	10	12	15
Speed	operating	n_n	[min^{-1}]	1500 to 4000		1200 to 3500		1000 to 3000		1000 to 2500
	minimum	n_{min}	[min^{-1}]	800		600		500		500
	maximum	n_{max}	[min^{-1}]	4300		3800		3200		2700
Section flow	operating	Q_n	[$dm^3.min^{-1}$]	4.5-12	6 - 16	7.2 - 21	9.6 - 28	10 - 30	12 - 36	15 – 37.5
	minimum	Q_{min}	[$dm^3.min^{-1}$]	2.4	3.2	3.6	4.8	5	6	7.5
	maximum	Q_{max}	[$dm^3.min^{-1}$]	12.9	17.2	22.8	30.4	32	38.4	40.5
Input pressure	maximum	p_{1max}	[bar]	230				230	200	180
	peak	p_{1n}	[bar]	250				250	220	200
Output pressure	maximum	p_{2max}	[bar]	280				250	220	190
	peak	p_{2n}	[bar]	300				270	240	210
Oil temperature		To	[°C]	- 20 to + 80						
Ambient temperature		Tp	[°C]	- 20 to + 55						
Nominal division accuracy in 2 sections *		-	[%]	4.5	4	3	2.5	2	2	1.5
Nominal division accuracy in more sections *		-	[%]	5.5	5	5	4	3.5	3	2.5
Installation position				Any						

* - measured at the speed of 2500 rpm and nominal pressure gradient of 100 bar between sections
- the parameter values are applicable at the liquid temperature of 40°C and kinematic viscosity $(35 \pm 5) \cdot 10^{-6}$ [$m^2 \cdot s^{-1}$]

DPVT3

Nominal size parameters		Des.	Unit	DPVT3 6	DPVT3 8	DPVT3 12	DPVT3 16	DPVT3 20	DPVT3 25	DPVT3 31
Nominal geometric volume		V_g	[cm^3]	6	8	12	16	20	25	31
Speed	operating	n_n	[min^{-1}]	1500 to 3800		1200 to 3200		1000 to 3000		800 to 2800
	minimum	n_{min}	[min^{-1}]	500		500		500		450
	maximum	n_{max}	[min^{-1}]	4000		3500		3300		3100
Section flow	operating	Q_n	[$dm^3.min^{-1}$]	9 - 22.8	12 - 30.4	14.4 - 38.4	19.2 - 51	20 - 60	25 - 75	24.8 - 86.8
	minimum	Q_{min}	[$dm^3.min^{-1}$]	3	4	6	8	10	12.5	13.9
	maximum	Q_{max}	[$dm^3.min^{-1}$]	24	32	42	56	66	82.5	96.1
Input pressure	maximum	p_{1max}	[bar]	230				220	190	170
	peak	p_{1n}	[bar]	250				240	210	190
Output pressure	maximum	p_{2max}	[bar]	280				240	210	190
	peak	p_{2n}	[bar]	300				260	230	210
Oil temperature		To	[°C]	- 20 to + 80						
Ambient temperature		Tp	[°C]	- 20 to + 55						
Nominal division accuracy in 2 sections *		?	[%]	4.5	4	3.5	3	2.5	2	1.5
Nominal division accuracy in more sections *		?	[%]	5.5	5	4.5	4	3.5	3	2.5
Installation position				Any						

* - measured at the speed of 2500 rpm and nominal pressure gradient of 100 bar between sections
- the parameter values are applicable at the liquid temperature of 40°C and kinematic viscosity $(35 \pm 5) \cdot 10^{-6}$ [$m^2 \cdot s^{-1}$]

Note: Previous tables only contain basic geometric volumes (Vg) of the dividers, other Vg sizes exist in the DPVJ and DPVT3 series that can be used after consultation with the manufacturer.

As standard, all flow dividers are equipped with differential transfer valves in each section that are adjustable in the range from 30 to 180 bar of a pressure gradient. (By default, the supplied flow divider is set to 50 bar).

Smaller geometric volumes from 10 to 16 cm^3/rev can be made with up to 6 sections. Of course, it is also possible to supply dividers with an odd number of sections or with different geometric volumes according to a required proportion of the liquid flow distribution.

A cheaper alternative may also be supplied for simpler divider applications that does not contain transfer valves.

WORKING LIQUID

- Mineral oils for hydraulic drives
- Hydraulic liquids based on plant oils suitable for hydrostatic drives

Liquid temperature

t = -20 ÷ +80 [°C] when using seals made of FKM (viton) up to 120 [°C]

Kinematic viscosity

Recommended (in permanent operation): $\nu = 20 \div 80 \cdot 10^{-6}$ [$m^2 \cdot s^{-1}$]

Maximum (when putting in operation, when viscosity is >1000, allowed operational pressure is <80 bar: $\nu = 1200 \cdot 10^{-6}$ [$m^2 \cdot s^{-1}$]

Minimum: $\nu = 10 \cdot 10^{-6}$ [$m^2 \cdot s^{-1}$]

Filter coefficient β_α

β_{25} 75 ≥ (for pressure $p_2 < 200$ bar)
β_{10} 75 ≥ (for pressure $p_2 > 200$ bar)

Degree of contamination of the ISO 4406 class liquid

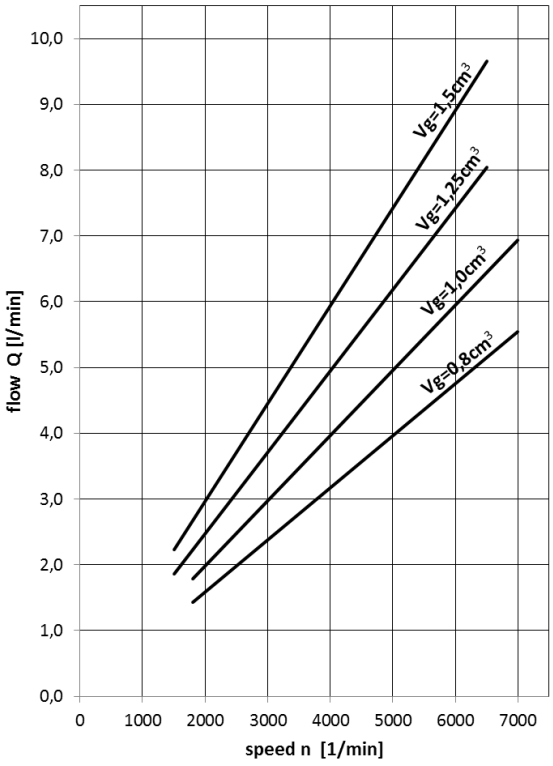
21/18/15 (for pressure $p_2 < 200$ bar)
20/17/14 (for pressure $p_2 > 200$ bar)

Degree of contamination of the NAS 1638 class liquid

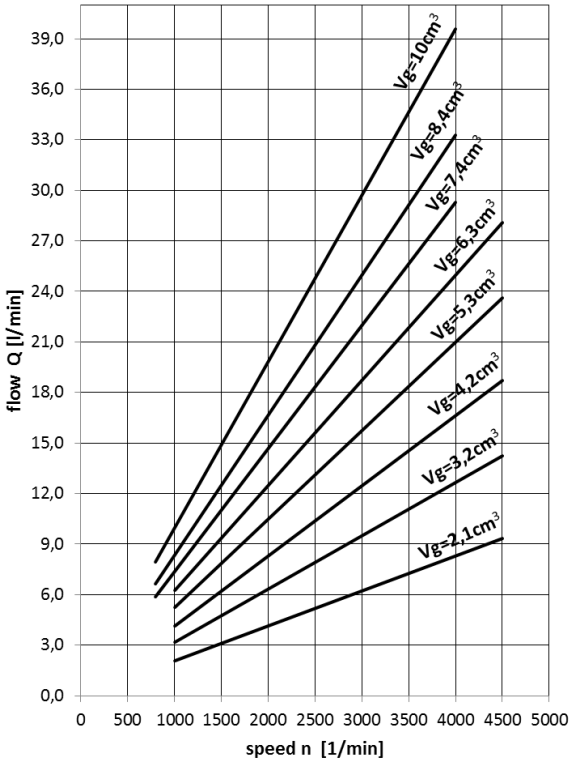
10 (for pressure $p_2 < 200$ bar)
8 (for pressure $p_2 > 200$ bar)

FLOW CHARACTERISTICS

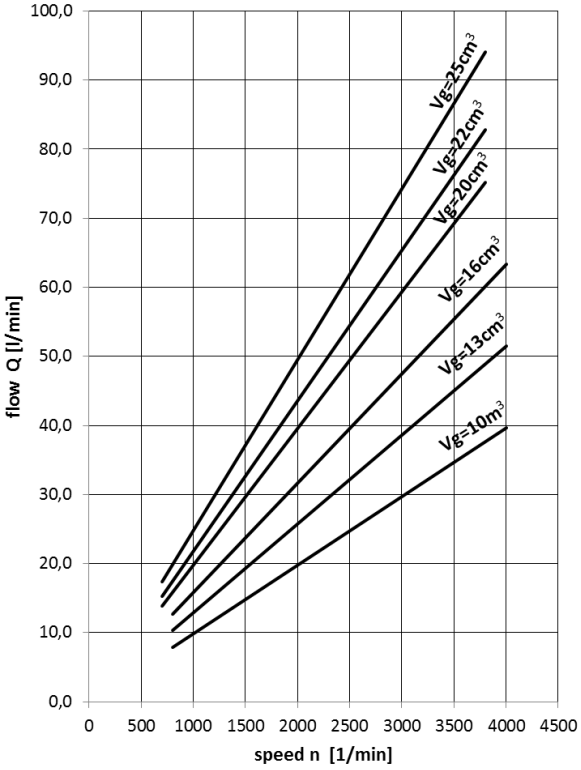
DPVM



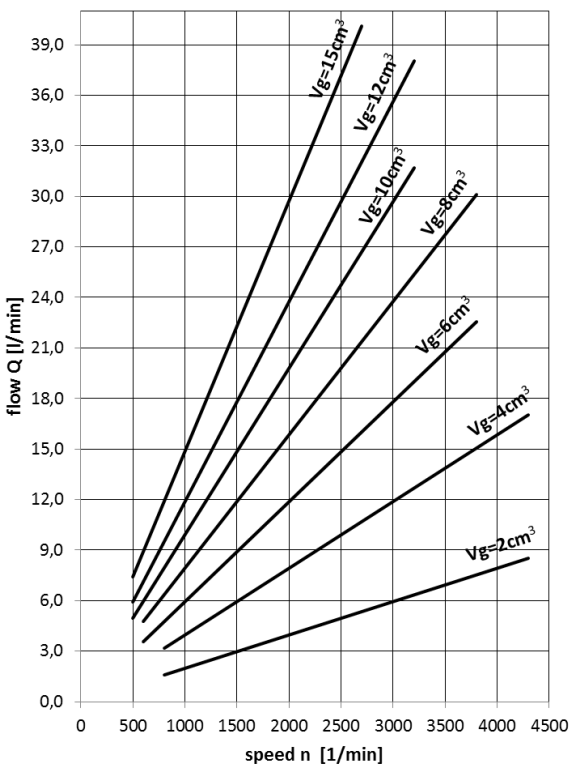
DPV2



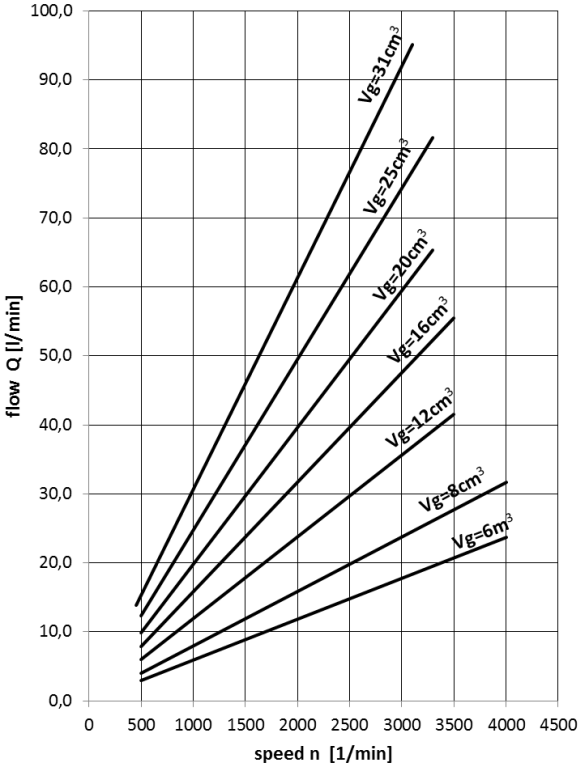
DPVT



DPVJ



DPVT3



ORDER KEY – UNBALANCED DIVIDER

DP V 2 - 4 x 2,1 - N . 001

Flow divider

Kód	Typ
-	without transfer valves
V	inbuilt transfer valve

Type series	
Code	Range Vg [ccm^3]
M	0,8 to 1,5
2	2,1 to 10
T	10 to 25

Number of sections
2
3
4
5
6

Geometric volume of a section [cm^3]
See type series

Code	Sealing material
N	NBR
V	FKM

Code	Special modifications
-	Standard design without modofications
001	Without mounting foots
002	Metric thread
003	UNF thread according SAE
004	Flanged branches DIN 8901 / 8902
005	„Cross-shaped“ flanged branches

Sample designation of an unbalanced divider type 2 with a transfer valve, four sections with a geometric volume of 2.1 cm^3 and a NBR seal. The divider is in 001 design - without mounting foots: **DPV2-4x2.1-N.001.**

Note: As standard, inputs are designed as a BSPP pipe thread.

ORDER KEY – BALANCED DIVIDER

DP V J - 4 x 6 - N . 001

Flow divider

Kód	Typ
-	without transfer valves
V	inbuilt transfer valve

Type series	
Code	Range Vg [ccm^3]
J	3 to 15
T3	6 to 31

Number of sections
2
3
4
5
6

Geometric volume of a section [cm^3]
See type series

Code	Sealing material
N	NBR
V	FKM

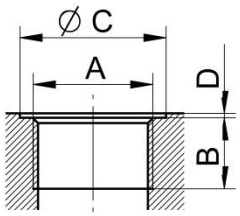
Code	Special modifications
-	Standard design without modofications
001	Without mounting foots
002	Metric thread
003	UNF thread according SAE
004	Flanged branches DIN 8901 / 8902
005	„Cross-shaped“ flanged branches

Sample designation of a balanced divider type J with a transfer valve, four sections with a geometric volume of 6 cm^3 and NBR seal. The divider is in 001 design - without mounting foots: **DPVJ-4x2.1-N.001.**

Note: As standard, inputs are designed as a BSPP pipe thread.

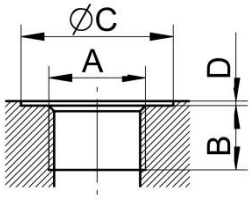
BASIC RECOMMENDED COMBINATIONS OF LIQUID INPUT AND OUTPUT

BSPP pipe thread ISO 228 - 1



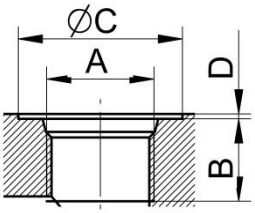
Size [cm³]	Code	Input				Code	Output			
		A	B	C	D		A	B	C	D
DPVM, DPV2, DPVJ up to 10, DPVT3 up to 10	G03	G 1/2	14	33	1	G03	G 1/2	14	33	1
DPVJ above 10, DPVT3 above 10	G04	G 3/4	16	39						
DPVT, DPVT3 above 19	G05	G 1	18	45		G04	G 3/4	16	39	

Metric thread ISO 6149



Size [cm³]	Code	Input				Code	Output			
		A	B	C	D		A	B	C	D
DPVM, DPV2, DPVJ	M07	M22x1.5	14	28	1	M05	M18x1.5	14	24	1
DPVT3 up to 20 DPVT	M09	M27x2	16	33		M07	M22x1.5	14	28	
DPVT3 above 20	M12	M33x2	18	40						

UNF thread according to SAE



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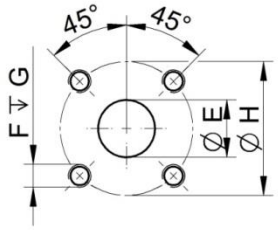
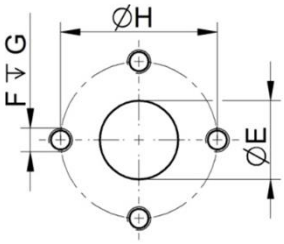
Size [cm³]	Code	Input				Code	Output			
		A	B	C	D		A	B	C	D
DPVM, DPV2	U04	7/8-14UNF	17	34	1	U03	3/4-16UNF	15	30	1
DPVT, DPVJ up to 12, DPVT3 up to 20	U05	1-1/16-12UN	19	41		U04	7/8-14UNF	17	34	
DPVT3 above 20	U07	1-5/16-12UN		49		U05	1-1/16-12UN	19	41	

Flanged branches DIN 8901/8902



Size [cm³]	Code	Input				Code	Output			
		E	F	G	H		E	F	G	H
DPVT, DPVJ, DPVT3 up to 20	H06	20	M6	13	40	H05	15	M6	13	35
DPVT3 above 20	H10	25	M8	16	55					

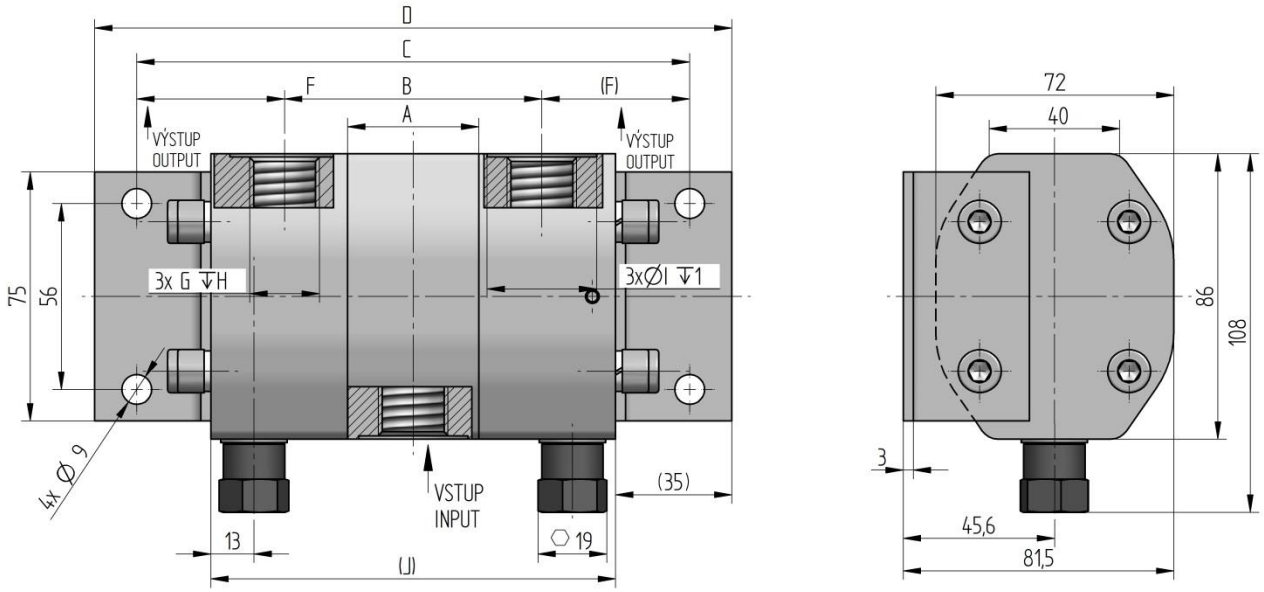
"Cross-shaped" flanged branches

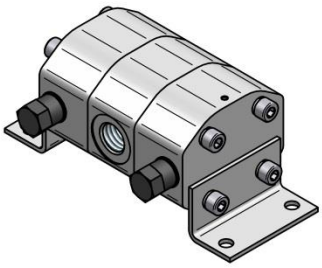


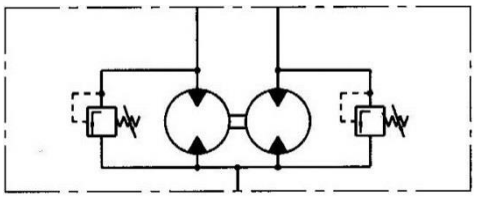
Size [cm³]	Code	Input				Code	Output			
		E	F	G	H		E	F	G	H
DPVT, DPVJ, DPVT3 up to 20	K02	20	M8	13	40	K01	13.5	M6	13	30
DPVT3 above 20	K04	26	M10	16	51	K03	18	M8	16	40

CATALOGUE SHEETS OF BASIC DESIGNS OF THE DIVIDERS

DPVM



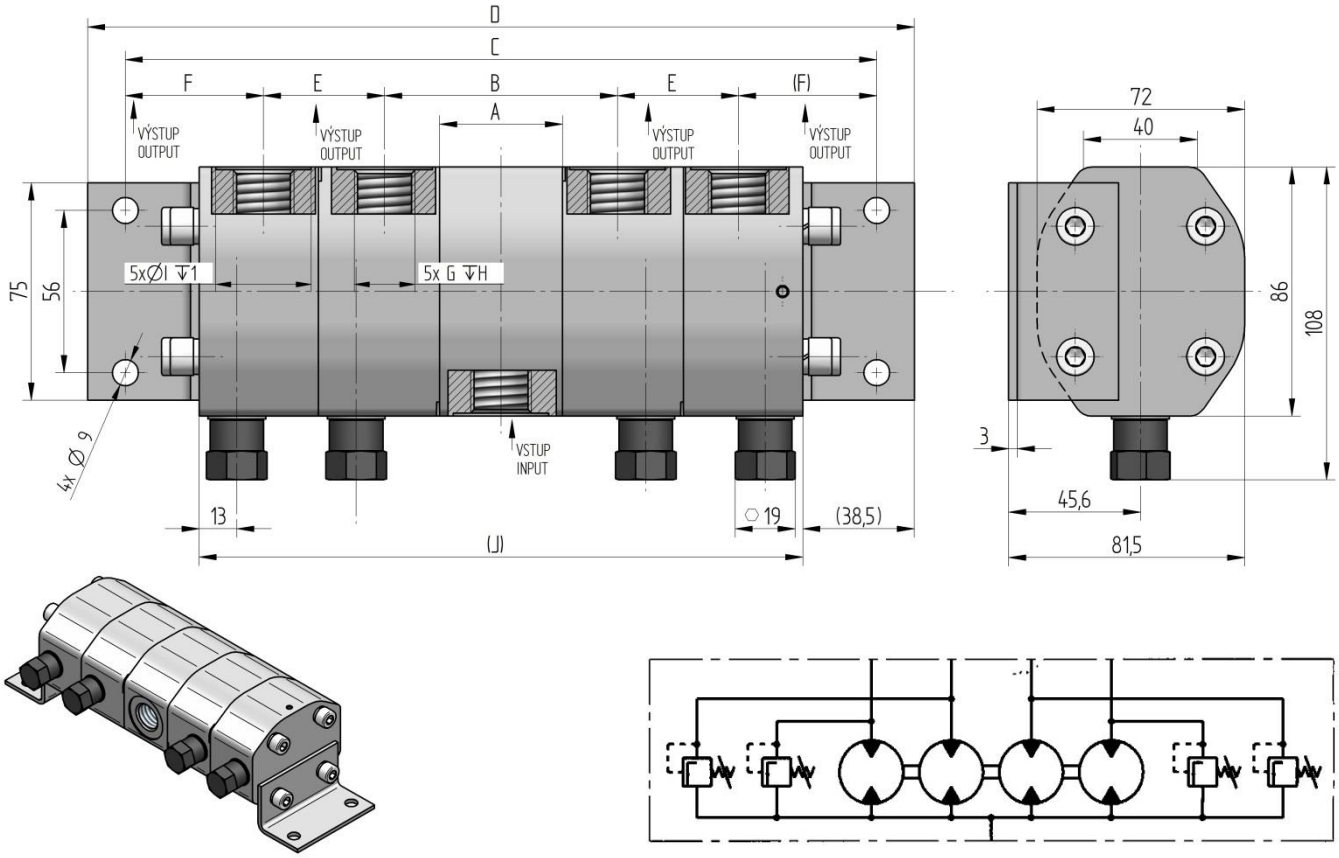




1) The transfer valves can be set in the range from 50 to 200 bar
2) The divider can be a combination of varied geometric volumes - pressure values in this case are given by the section with the greatest geometric volume

* - Values recommended for optimal division accuracy.

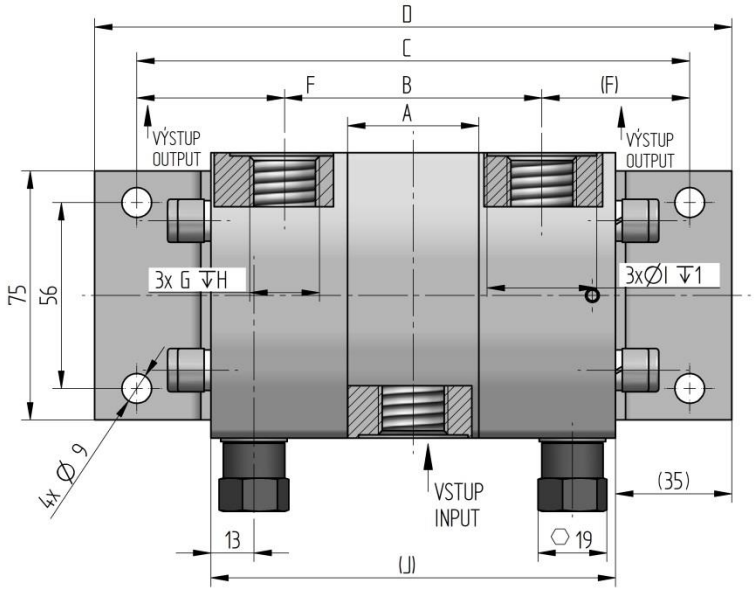
DPVM-2x1.5	180 9297	2x1.5	300	230	3.3 - 9.0	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
DPVM-2x1.25	180 9119	2x1.25	300	230	2.8 - 7.5	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
DPVM-2x1.0	180 9196	2x1.0	300	230	2.5 - 6.5	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
DPVM-2x0.8	180 9298	2x0.8	300	230	2.0 - 5.2	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
TYPE	ORD. NO.	GEOM. VOLUME [cm³]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm³/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									

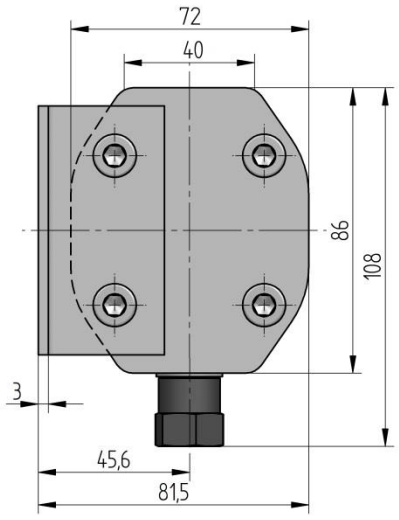


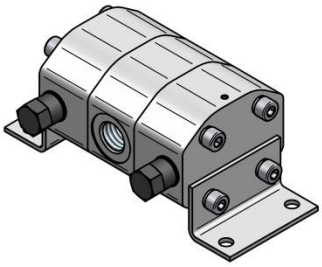
1) The transfer valves can be set in the range from 50 to 200 bar
2) The divider can be a combination of varied geometric volumes - pressure values in this case are given by the section with the greatest geometric volume
* - Values recommended for optimal division accuracy.

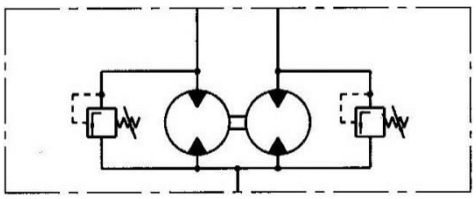
DPVM-4x1.5	180 9295	4x1.5	300	230	3.3 - 9.0	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5
DPVM-4x1.25	180 9118	4x1.25	300	230	2.8 - 7.5	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5
DPVM-4x1.0	180 9238	4x1.0	300	230	2.5 - 6.5	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5
DPVM-4x0.8	180 9296	4x0.8	300	230	2.0 - 5.2	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5
TYPE	ORD. NO.	GEOM. VOLUME [cm³]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm³/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									

DPV2









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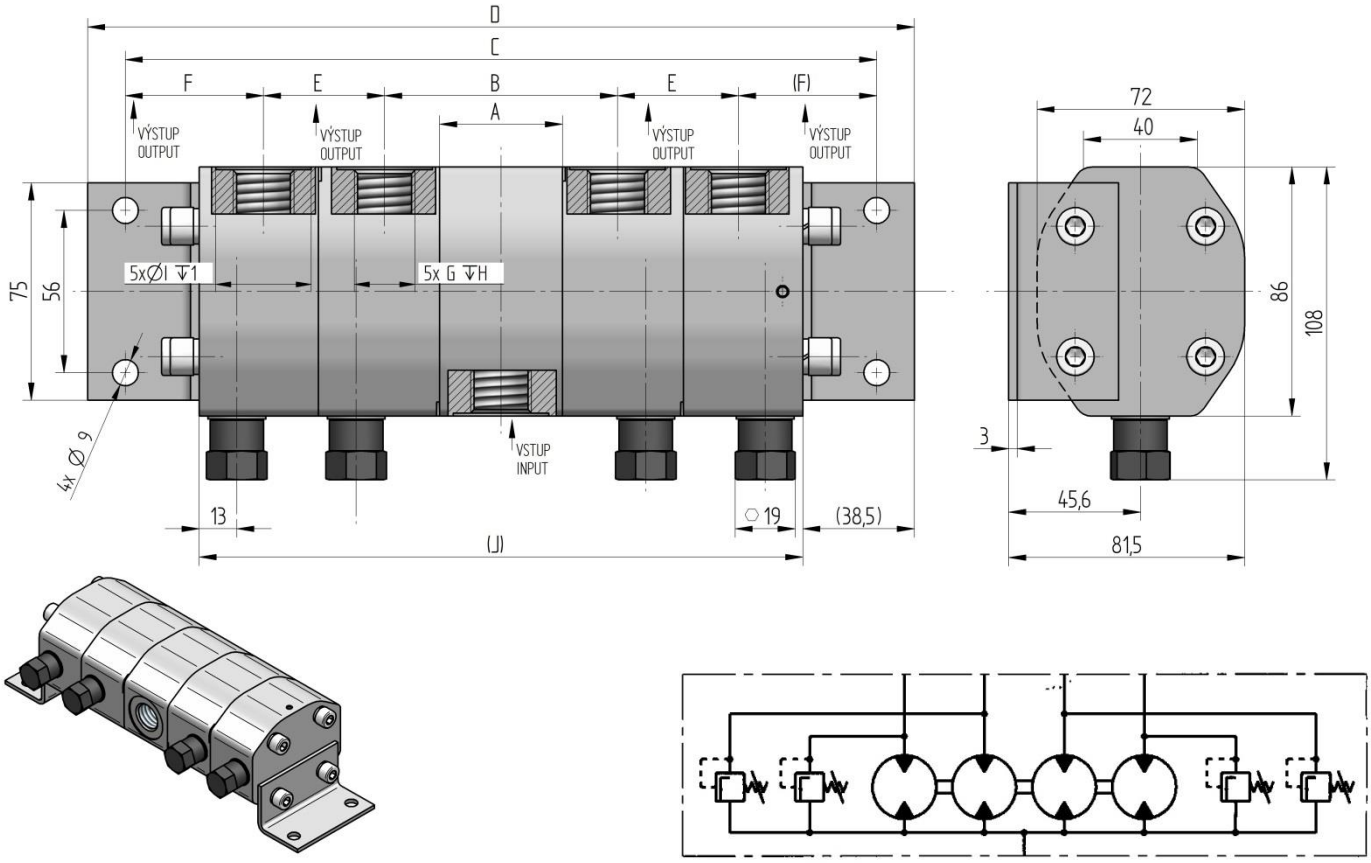
DPV2-2x10	180 9117	2x10	300	230	15.0 - 35.0	39.5	99.5	204.1	229.5	-	52.3	G 1/2"	18	33	159.5
DPV2-2x8.4	180 9299	2x8.4	300	230	12.6 - 29.4	39.5	99.5	204.1	229.5	-	52.3	G 1/2"	18	33	159.5
DPV2-2x7.4		2x7.4	300	230	11.1 - 25.9	39.5	99.5	204.1	229.5	-	52.3	G 1/2"	18	33	159.5
DPV2-2x6.3	180 9197	2x6.3	300	230	12.6 - 25.9	39.5	77.5	180.1	205.5	-	51.3	G 1/2"	18	33	135.5
DPV2-2x5.3	180 9204	2x5.3	300	230	10.5 - 21.2	39.5	77.5	180.1	205.5	-	51.3	G 1/2"	18	33	135.5
DPV2-2x4.2	180 9237	2x4.2	300	230	8.4 - 16.8	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
DPV2-2x3.2	180 9149	2x3.2	300	230	6.4 - 12.8	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
DPV2-2x2.1	180 9236	2x2.1	300	230	4.2 - 8.4	39.5	77.5	166.5	192	-	44.5	G 1/2"	18	33	122
TYPE	ORD. NO.	GEOM. VOLUME [cm^3]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm^3/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									



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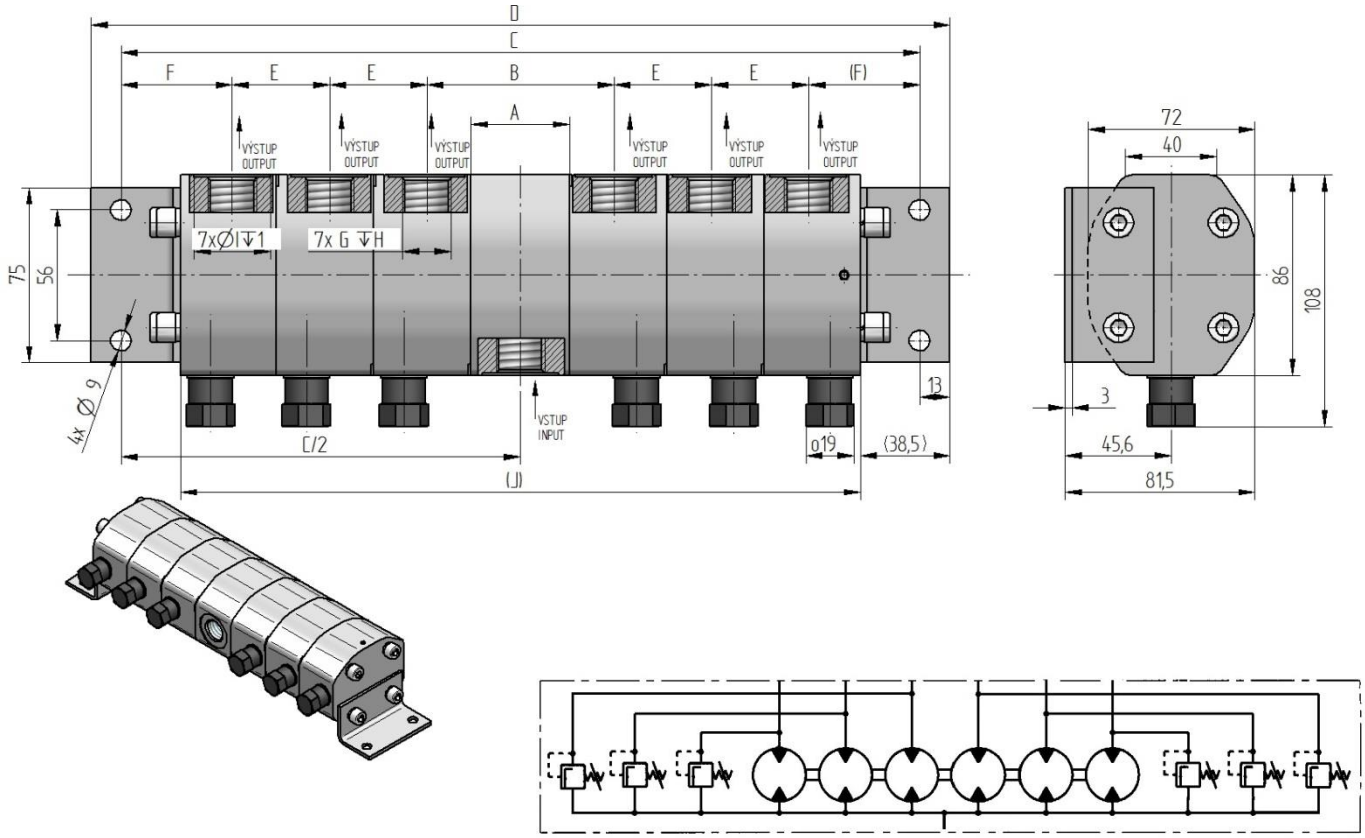
TYPE	ORD. NO.	GEOM. VOLUME [cm³]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm³/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									
DPV2-4x10	180 9194	4x10	300	230	15.0 - 35.0	42.4	102.4	334	360	60	55.5	G 1/2"	18	33	282.4
DPV2-4x8.4	180 9215	4x8.4	300	230	12.6 - 29.4	42.4	102.4	334	360	60	55.5	G 1/2"	18	33	282.4
DPV2-4x7.4		4x7.4	300	230	11.1 - 25.9	42.4	102.4	334	360	60	55.5	G 1/2"	18	33	282.4
DPV2-4x6.3	180 9151	4x6.3	300	230	12.6 - 25.9	42.4	80.4	286	312	48	54.5	G 1/2"	18	33	234.4
DPV2-4x5.3	180 9218	4x5.3	300	230	10.5 - 21.2	42.4	80.4	286	312	48	54.5	G 1/2"	18	33	234.4
DPV2-4x4.2	180 9135	4x4.2	300	230	8.4 - 16.8	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5
DPV2-4x3.2	180 9116	4x3.2	300	230	6.4 - 12.8	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5
DPV2-4x2.1	180 9134	4x2.1	300	230	4.2 - 8.4	42.4	80.5	260	286	41.8	47.5	G 1/2"	18	33	208.5



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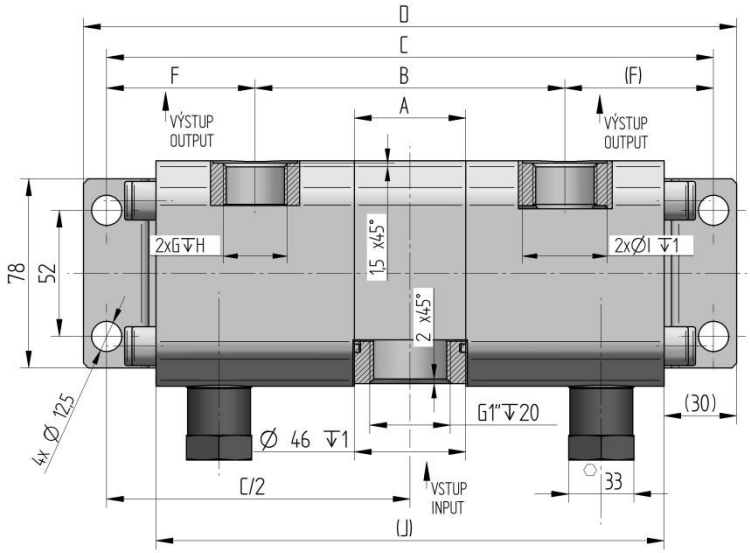
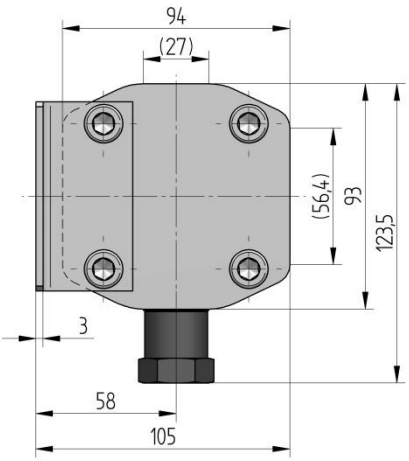
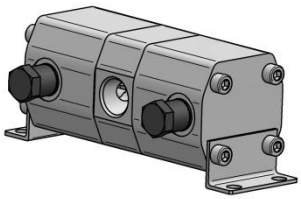
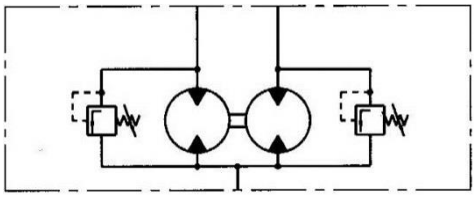
DPV2-6x4.2	180 9195	6x4.2	300	230	8.4 - 16.8	42.4	80.5	343	369	41.8	47.5	G 1/2"	18	33	292
DPV2-6x2.1	180 9116	6x2.1	300	230	4.2 - 8.4	42.4	80.5	343	369	41.8	47.5	G 1/2"	18	33	292
TYPE	ORD. NO.	GEOM. VOLUME [cm^3]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm^3/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									

DPVT









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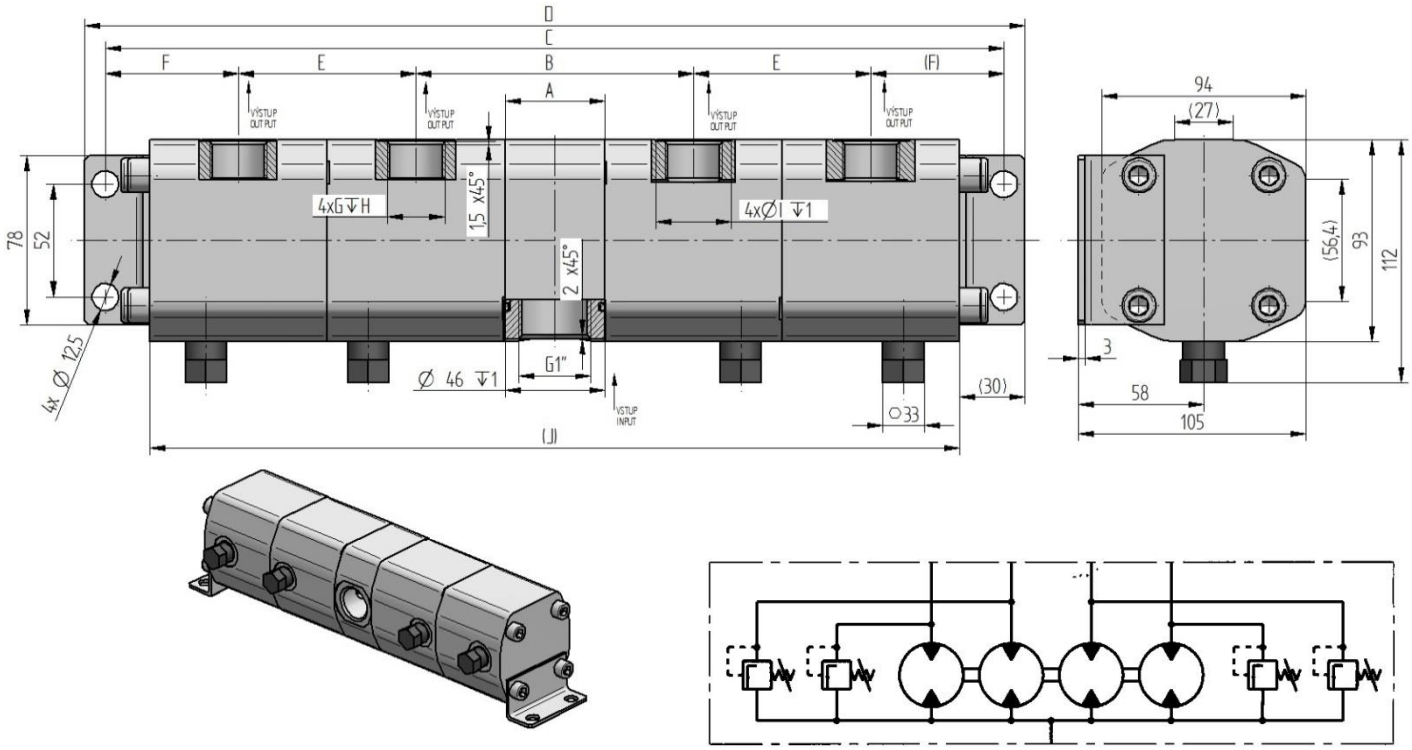
DPVT-2x27		2x27	260	150	45.9-89.1	46	128	250.8	270	-	61.4	G 3/4"	18	35	210
DPVT-2x25		2x25	260	150	42.5 - 82.5	46	128	250.8	270	-	61.4	G 3/4"	18	35	210
DPVT-2x22		2x22	260	150	37.4 - 72.6	46	128	250.8	270	-	61.4	G 3/4"	18	35	210
DPVT-2x20		2x20	260	150	34 - 66	46	128	250.8	270	-	61.4	G 3/4"	18	35	210
DPVT-2x16	189 9300	2x16	300	150	28.8 - 56	46	115	224.8	244	-	54.9	G 3/4"	18	35	184
DPVT-2x13		2x13	300	150	23.4 - 45.5	46	103	200.8	220	-	48.9	G 3/4"	18	35	160
DPVT-2x10		2x10	300	150	18 - 35	46	103	200.8	220	-	48.9	G 3/4"	18	35	160
TYPE	ORD. NO.	GEOM. VOLUME [cm^3]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm^3/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									



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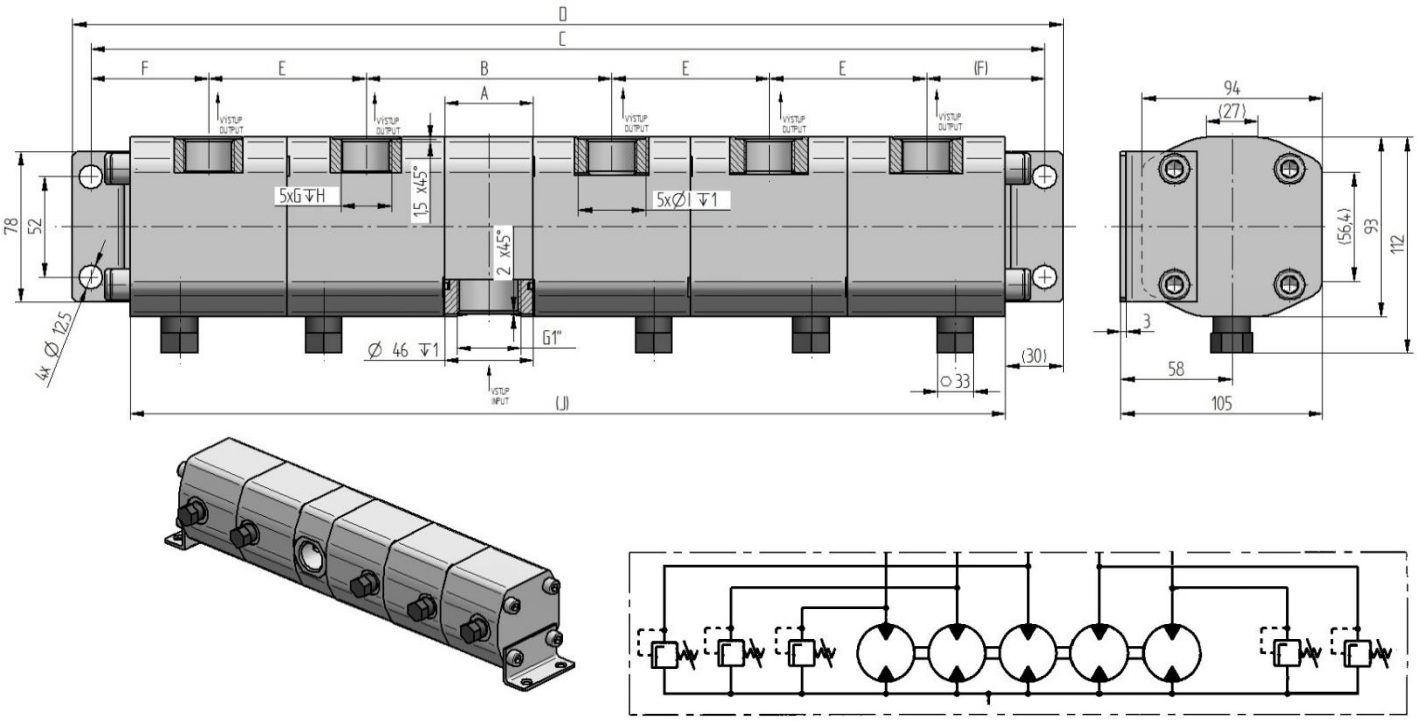
DPVT-4x27		4x27	260	150	45.9-89.1	46	128	414.8	434	82	61.4	G 3/4"	18	35	374
DPVT-4x25		4x25	260	150	42.5 - 82.5	46	128	414.8	434	82	61.4	G 3/4"	18	35	374
DPVT-4x22		4x22	260	150	37.4 - 72.6	46	128	414.8	434	82	61.4	G 3/4"	18	35	374
DPVT-4x20		4x20	260	150	34 - 66	46	128	414.8	434	82	61.4	G 3/4"	18	35	374
DPVT-4x16		4x16	300	150	28.8 - 56	46	115	362.8	382	69	54.9	G 3/4"	18	35	322
DPVT-4x13		4x13	300	150	23.4 - 45.5	46	109	332.8	352	63	48.9	G 3/4"	18	35	298
DPVT-4x10		4x10	300	150	18 - 35	46	109	314.8	333	57	48.9	G 3/4"	18	35	274
TYPE	ORD. NO.	GEOM. VOLUME [cm^3]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm^3/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									



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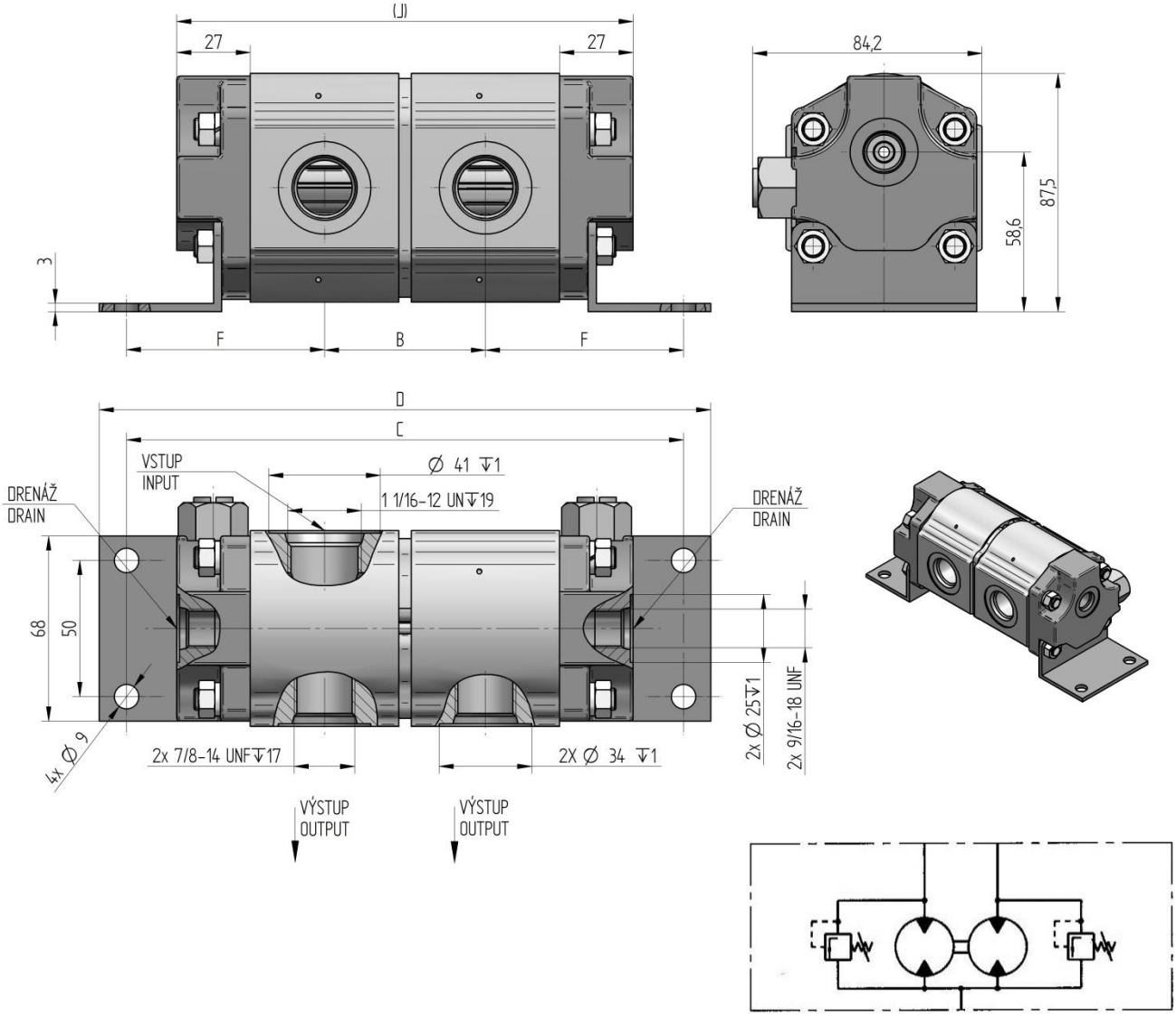
DPVT-5x25		5x25	260	150	42.5 - 82.5	46	128	497	516	82	61.4	G 3/4"	18	35	456
DPVT-5x22		5x22	260	150	37.4 - 72.6	46	128	497	516	82	61.4	G 3/4"	18	35	456
DPVT-5x20		5x20	260	150	34 - 66	46	128	497	516	82	61.4	G 3/4"	18	35	456
DPVT-5x16		5x16	300	150	28.8 - 56	46	115	432	451	69	54.9	G 3/4"	18	35	391
DPVT-5x13		5x13	300	150	23.4 - 45.5	46	109	402	421	63	48.9	G 3/4"	18	35	361
DPVT-5x10		5x10	300	150	18 - 35	46	103	372	391	57	48.9	G 3/4"	18	35	331
TYPE	ORD. NO.	GEOM. VOLUME [cm^3]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm^3/min]	A	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]									

DPVJ



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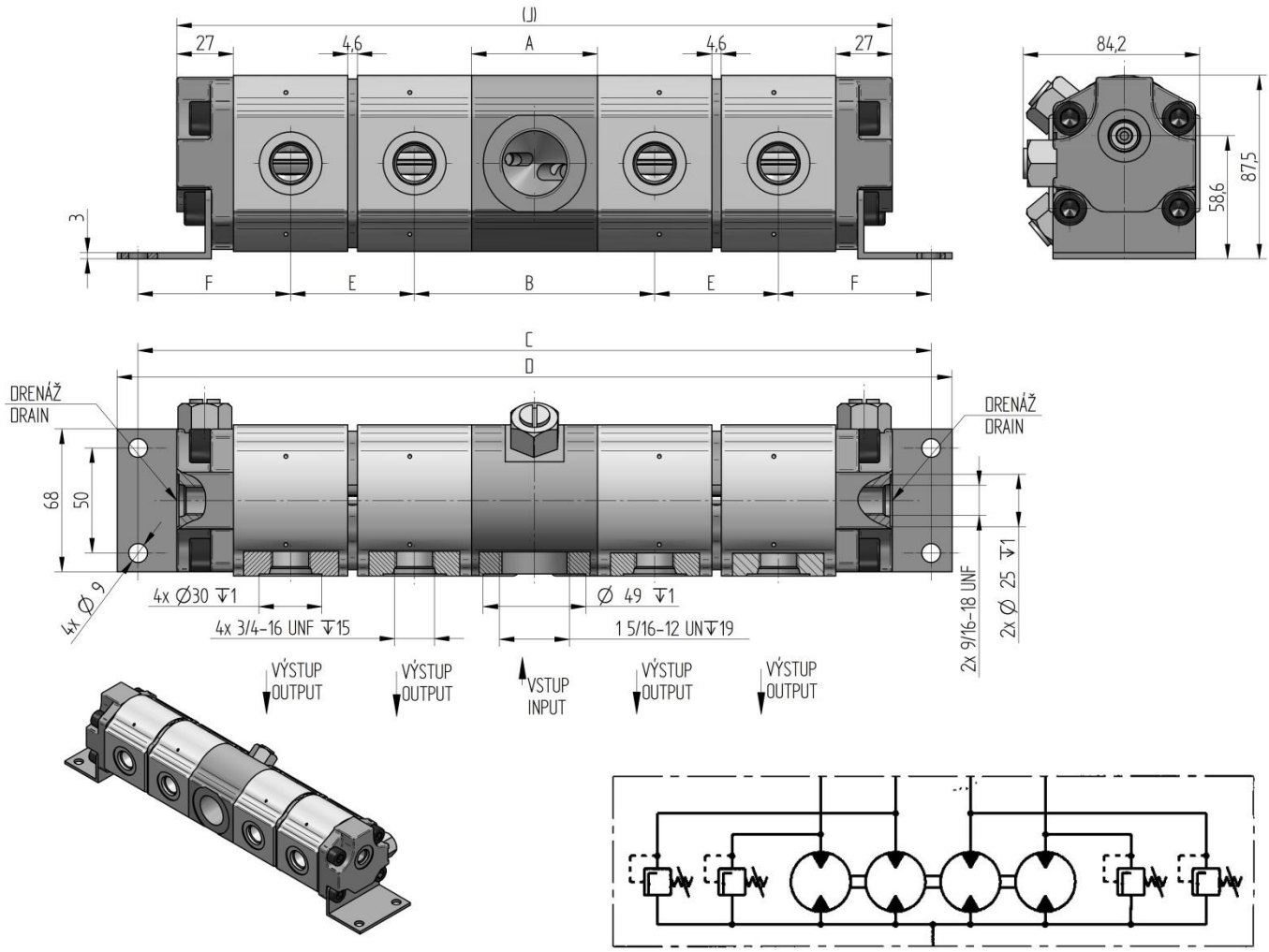
DPVJ 2x12		2x12	220	150	12-36	69.8	226.0	246.0	78.0				189.0
DPVJ 2x10		2x10	250	150	10-30	64.4	215.3	235.3	75.4				178.3
DPVJ 2x8		2x8	280	150	9.6-28	59.1	204.6	224.6	72.7	-	-	-	167.6
DPVJ 2x6		2x6	280	150	7.2-21	53.8	193.9	213.9	70.0				156.9
DPVJ 2x4		2x4	280	150	6-16	48.4	183.2	203.2	67.4				146.2
DPVJ 2x3		2x3	280	150	4.5-12	45.8	177.9	197.9	66.0				140.9
TYPE	ORD. NO.	GEOM. VOLUME [cm³]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm³/min]	B	C	D	F	G	H	I	(J)
						SIZE [mm]							



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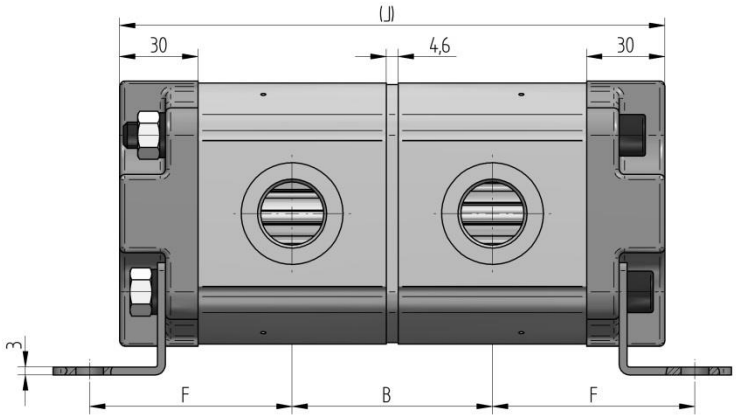
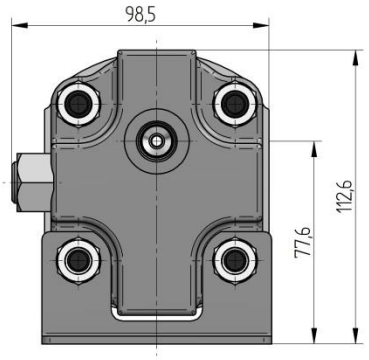
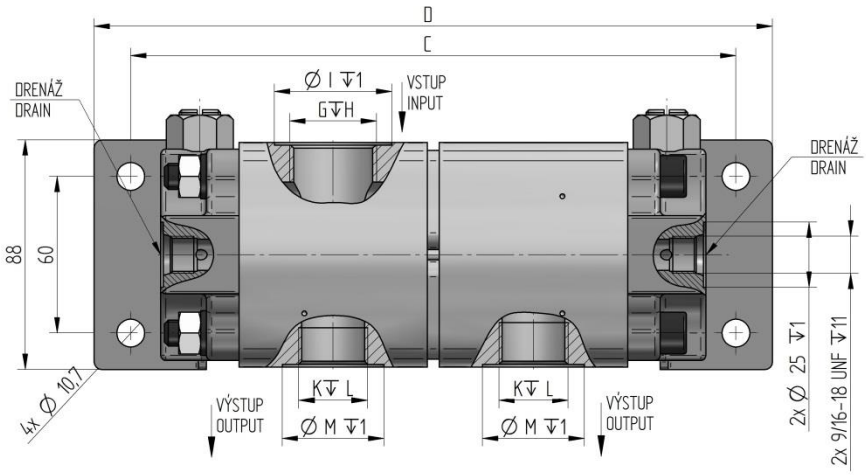
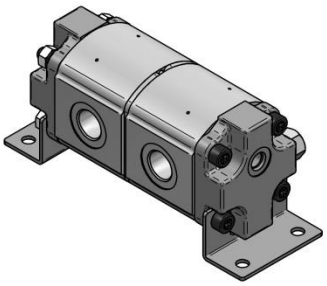
DPVJ 4x12		2x12	220	150	12-36	125.2	420.9	440.9	69.8	78.0				383.9
DPVJ 4x10		2x10	250	150	10-30	119.8	399.6	419.6	64.4	75.4				362.6
DPVJ 4x8		2x8	280	150	9.6-28	114.5	378.2	398.2	59.1	72.7	-	-	-	341.2
DPVJ 4x6		2x6	280	150	7.2-21	109.2	356.8	376.8	53.8	70.0				319.8
DPVJ 4x4		2x4	280	150	6-16	103.8	335.5	355.5	48.4	67.4				298.5
DPVJ 4x3		2x3	280	150	4.5-12	101.2	324.8	344.8	45.8	66.0				287.8
TYPE	ORD. NO.	GEOM. VOLUME [cm³]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm³/min]	B	C	D	E	F	G	H	I	(J)
						SIZE [mm]								

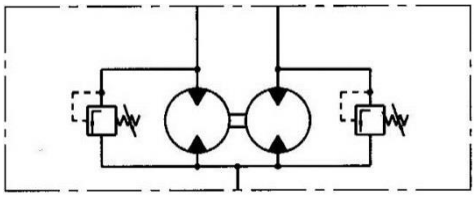
DPVT3











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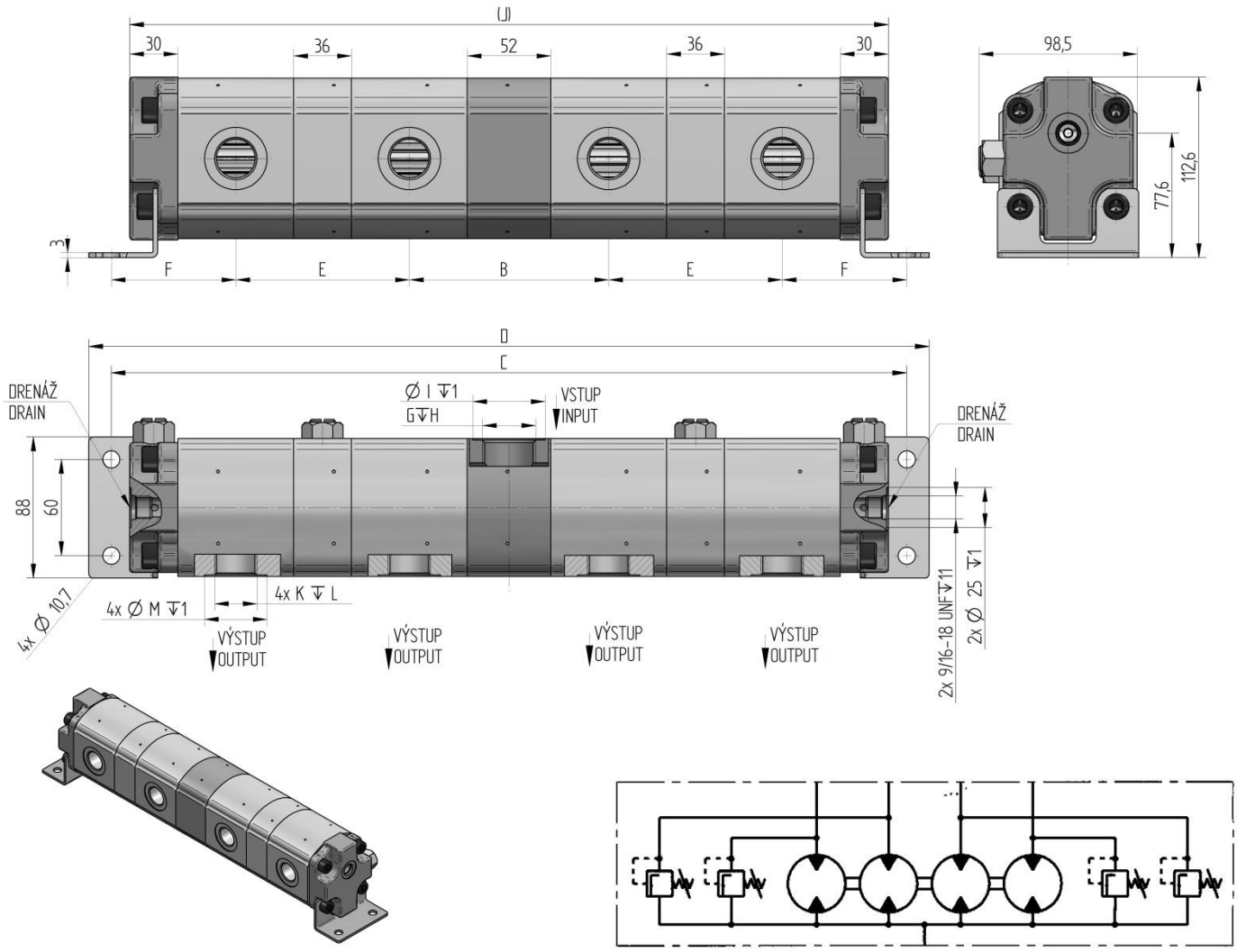
TYPE	ORD. NO.	GEOM. VOLUME [cm³]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm³/min]	B	C	D	F	G	H	I	(J)	K	L	M
						SIZE [mm]										
DPVT3 2x25		2x25	210	150	25-75	84.6	247.7	275.7	81.5	G1“	18	45	224.7	G3/4“	16	39
DPVT3 2x20		2x20	240	150	20-60	76.7	231.9	259.9	77.6	G1“	18	45	208.9	G3/4“	16	39
DPVT3 2x16		2x16	280	150	19.2-51	70.4	219.4	247.4	74.5	G3/4“	16	39	196.4	G1/2“	14	33
DPVT3 2x12		2x12	280	150	14.4-38.4	64.2	206.8	234.8	71.3	G3/4“	16	39	183.8	G1/2“	14	33
DPVT3 2x8		2x8	280	150	12-30.4	57.9	194.2	222.2	68.2	G1/2“	14	33	171.2	G1/2“	14	33
DPVT3 2x6		2x6	280	150	9-22.8	54.7	187.9	215.9	66.6	G1/2“	14	33	164.9	G1/2“	14	33



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DPVT3 4x25		4x25	210	150	25-75	132.0	527.0	555.0	81.5	G1“	18	45	504.0	G3/4“	16	39
DPVT3 4x20		4x20	240	150	20-60	124.1	495.5	523.5	77.6	G1“	18	45	472.5	G3/4“	16	39
DPVT3 4x16		4x16	280	150	19.2-51	117.8	470.4	498.4	74.5	G1“	16	39	447.4	G1/2“	14	33
DPVT3 4x12		4x12	280	150	14.4-38.4	111.6	445.3	473.3	71.3	G3/4“	16	39	422.3	G1/2“	14	33
DPVT3 4x8		4x8	280	150	12-30.4	105.3	420.1	448.1	68.2	G3/4“	14	33	397.1	G1/2“	14	33
DPVT3 4x6		4x6	280	150	9-22.8	102.1	407.4	435.4	66.6	G3/4“	14	33	384.4	G1/2“	14	33
TYPE	ORD. NO.	GEOM. VOLUME [cm^3]	NOMIN. PRESSURE [bar]	MAX. PRESSURE DROP [bar]	FLOW SECTION [dm^3/min]	B	C	D	F	G	H	I	(J)	K	L	M
						SIZE [mm]										

COMMENTS:

jihostroj
AERO TECHNOLOGY & HYDRAULICS

JIHOSTROJ a.s.
Budějovická 148
CZ 382 32 Velešín
Czech Republic
tel.: +420 380 340 511
fax: +420 380 340 612
e-mail: mailbox@jihostroj.cz
http: //**www.jihostroj.com**
GPS 48°49'51.748" N 14°27'40.770" E