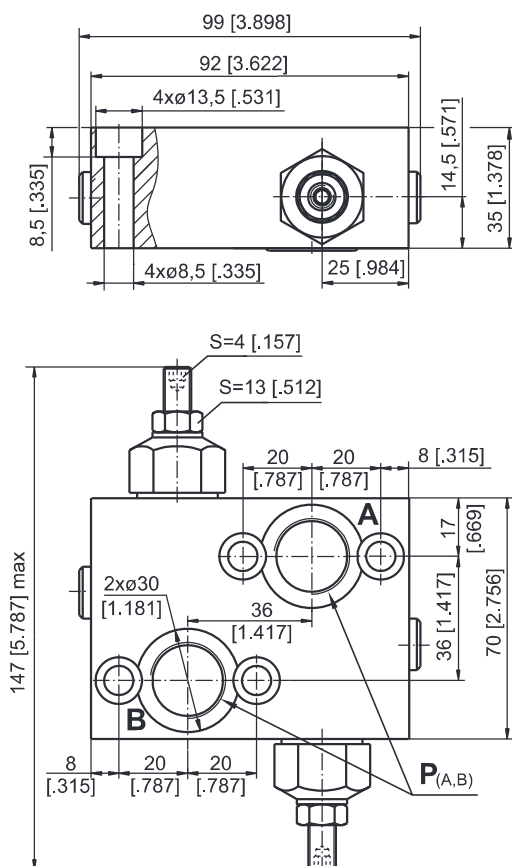
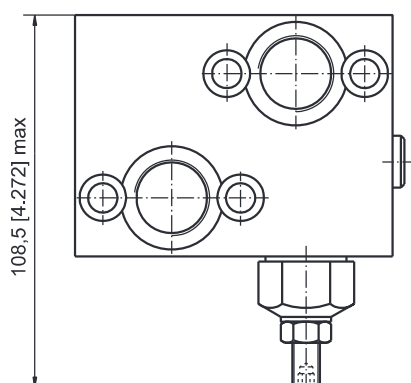


VALVES for MP, MR and MH HYDRAULIC MOTORS

DUAL VALVE KPDR



SINGLE VALVE KPER

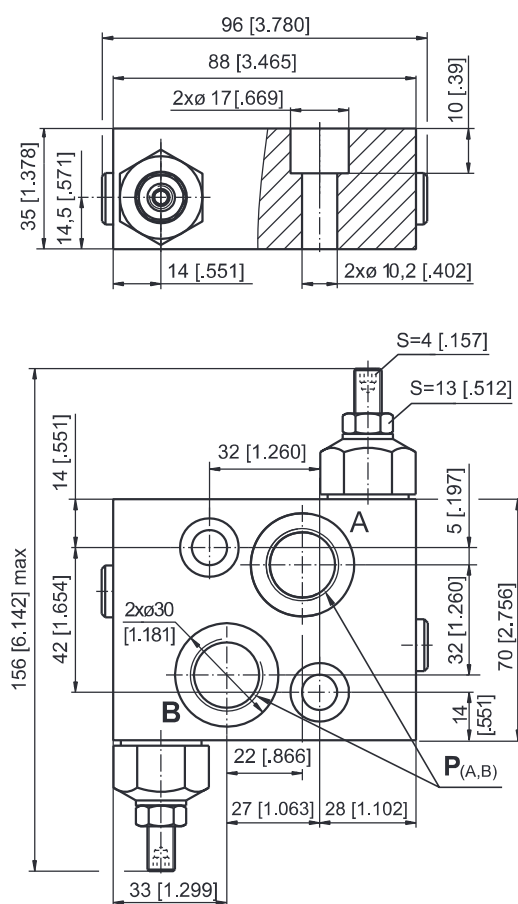


	Thread Ports - P _(A,B)
-	G1/2 20 [.79] depth
M	M22x1,5 20 [.79] depth
A	7/8 - 14 UNF O-ring 20 [.79] depth

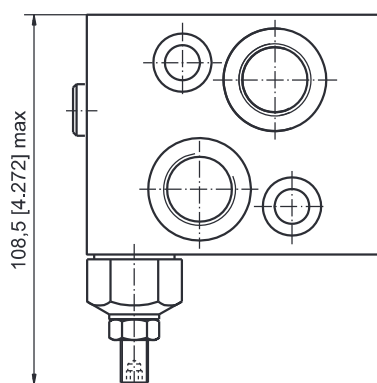


VALVES for MS HYDRAULIC MOTORS

DUAL VALVE KPDS



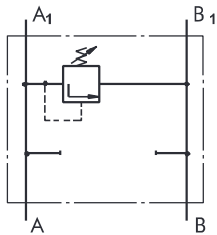
SINGLE VALVE KPES



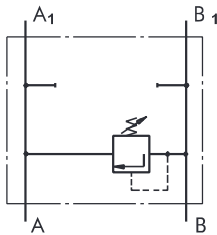
Note : **KPDR** and **KPER** Blocks are installed directly on MP, MR and MH Motors with four screws M8x35 - 8.8 DIN 912 or 5/16-18 UNC, 1.5 long ANSI B 18.3 . Tightening torque 2,0^{+0,5} daNm [177⁺⁴⁴ lb-in].

KPDS and **KPES** Blocks are installed directly on MS Motors with two screws M10x35 - 8.8 DIN 912 or 3/8-16 UNC, 1.5 long ANSI B 18.3 .
Tightening torque 3,5 daNm [310 lb-in].

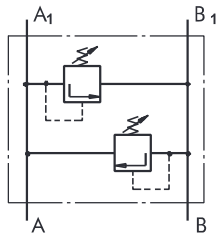
VALVES for MT HYDRAULIC MOTORS



Single Crossover
Relief Valve
type KPEAT ...



Single Crossover
Relief Valve
type KPEBT ...



Dual Crossover
Relief Valve
type KPDT ...

SPECIFICATION DATA

Parameters	Type	
	KPE...T	KPDT
Flow Rate , lpm [GPM]	120 [32]	
Pressure Range* , bar	80÷210	
[PSI]	[1160÷3050]	
Weight , kg	5,10	5,54
[lb]	[11.24]	[12.21]

*Pressure Settings are at flow rate of 5 lpm [1.32 GPM] and viscosity 32 mm²/s [150 SUS] (50 °C [122° F]).

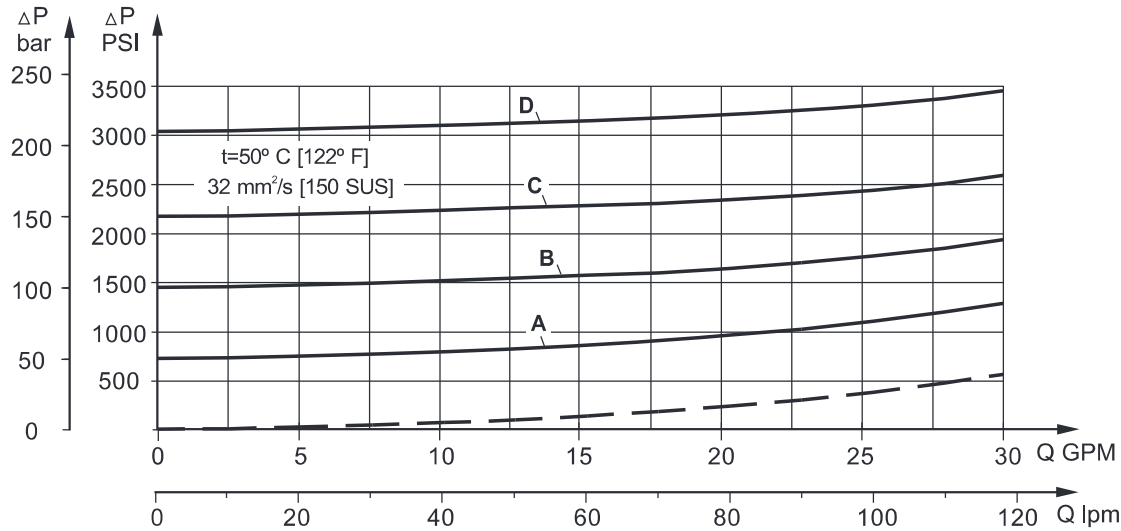
Rated Pressure

- A → 50 bar [725 PSI]

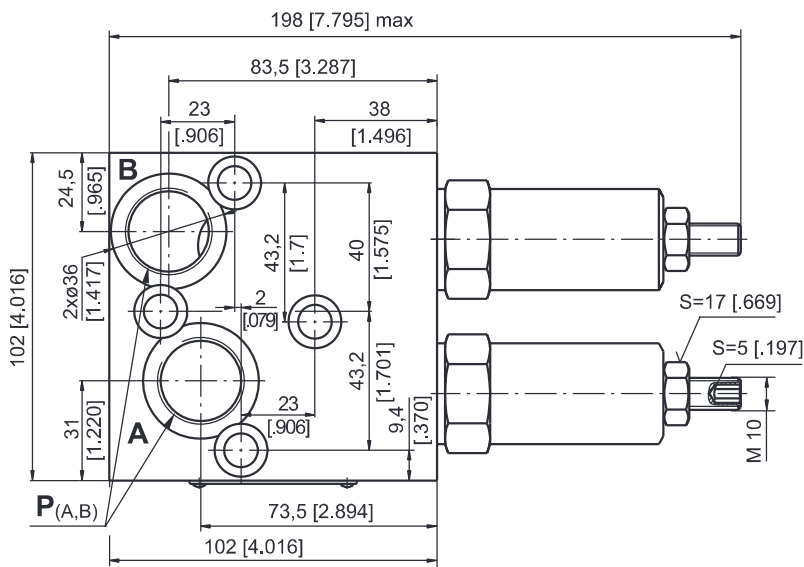
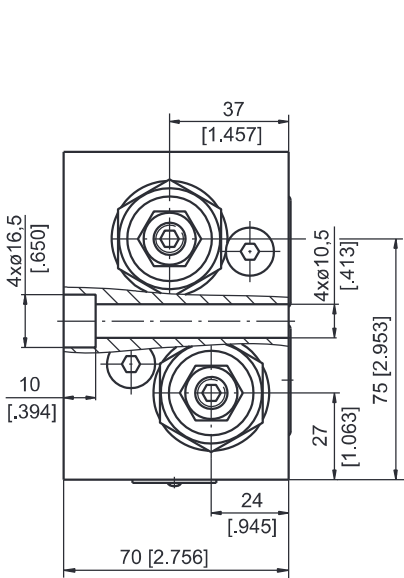
B → 100 bar [1450 PSI]

C → 150 bar [2175 PSI]

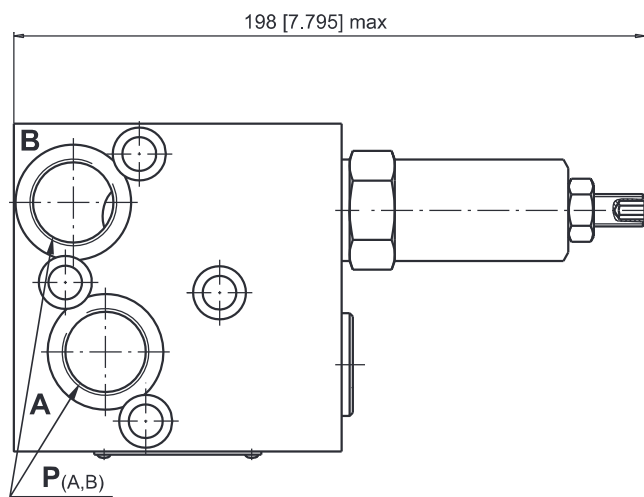
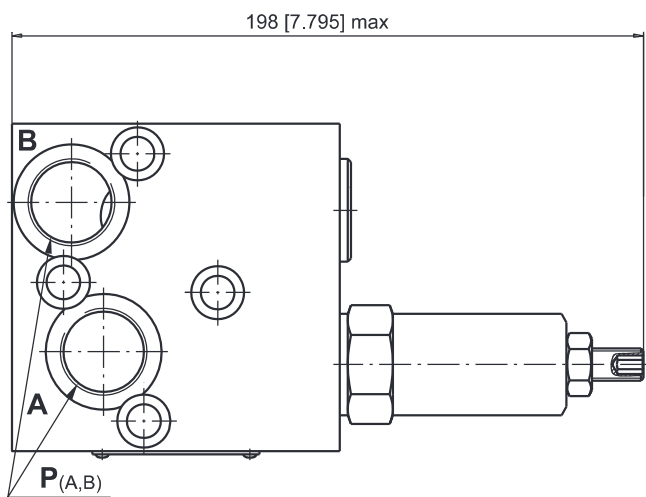
D → 210 bar [3045 PSI]



DUAL VALVE KPDT...



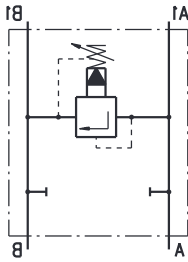
SINGLE VALVE KPEAT...



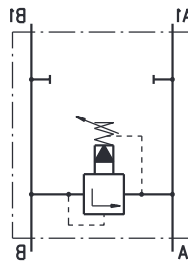
	Thread Ports - P (A,B)
-	G3/4 20 [.79] depth
M	M27x2 20 [.79] depth
A	1 ¹ / ₁₆ -12 UN O-ring 20 [.79] depth

Note : KPDT and KPE...T Blocks are installed directly on MT Motors with four screws M10x70 - 8.8 DIN 912. Tightening torque 3,5 daNm [310 lb-in].

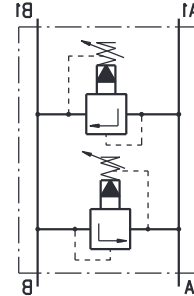
VALVES for MV HYDRAULIC MOTORS



Single Crossover
Relief Valve
type KPEAV ...



Single Crossover
Relief Valve
type KPEBV ...



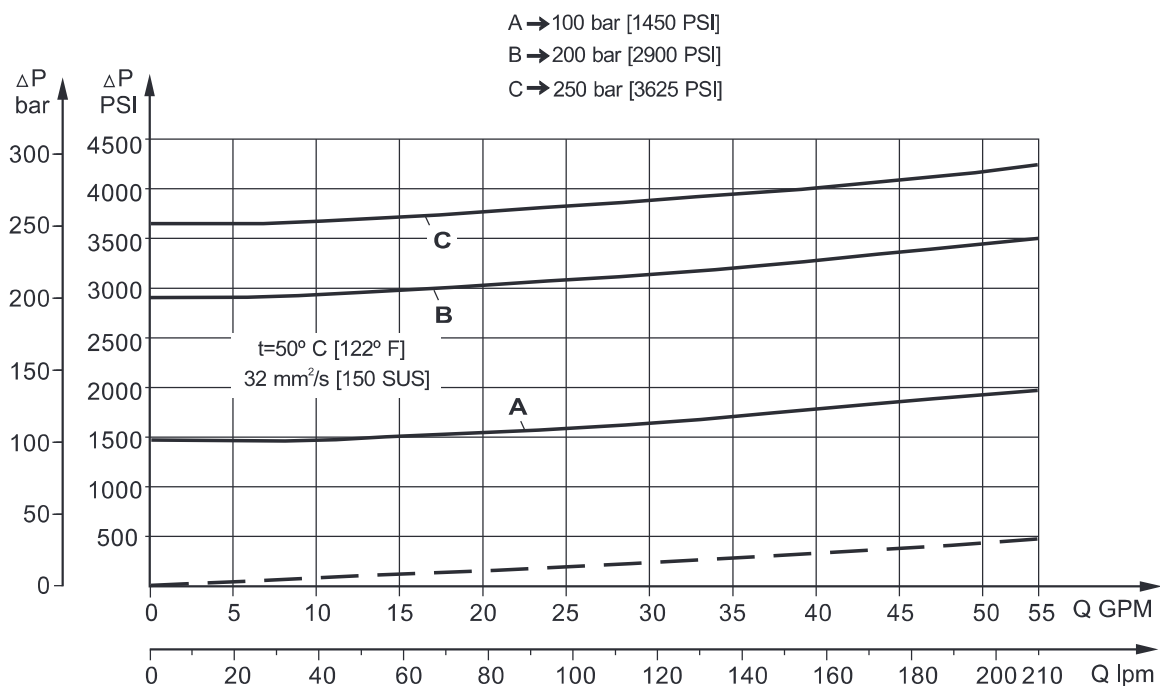
Dual Crossover
Relief Valve
type KPDRV ...

SPECIFICATION DATA

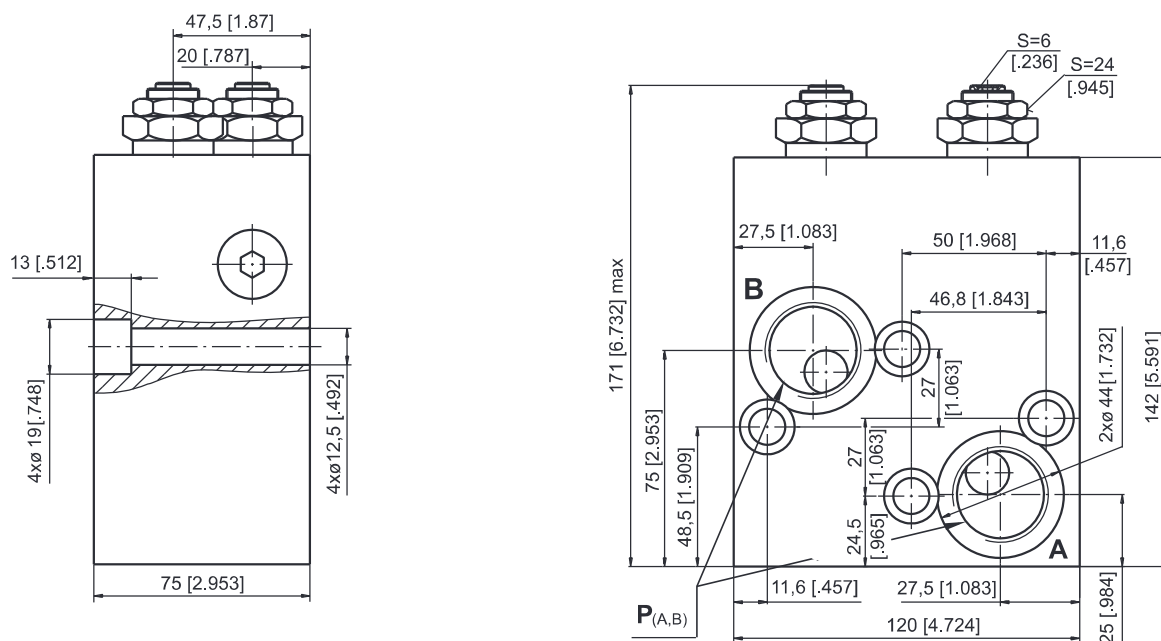
Parameters	Type		
	KPEAV	KPEBV	KPDV
Flow Rate , lpm [GPM]	200 [53]		
Pressure Range* , bar [PSI]	10÷100; 20÷250 [145÷1450]; [290÷3625]		
Weight , kg [lb]	4,90 [10.8]	7,10 [15.65]	8,00 [17.64]

*Pressure Settings are at flow rate of 5 lpm [1.3 GPM]
and viscosity 32 mm²/s [150 SUS] (50 °C [122° F]).

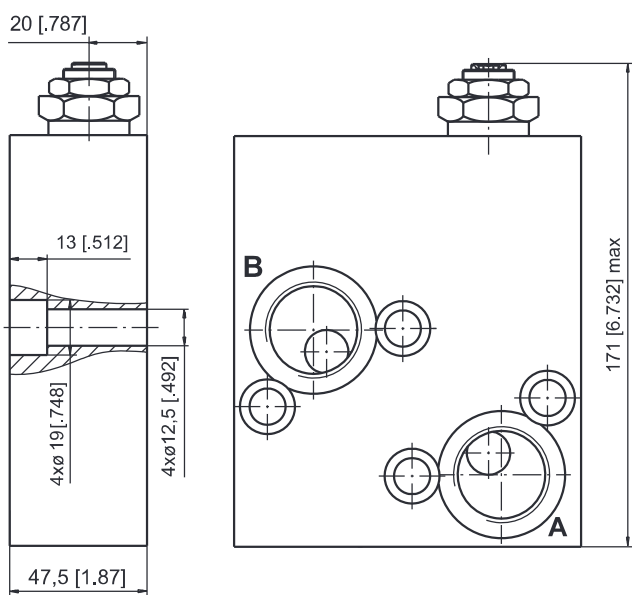
Rated Pressure



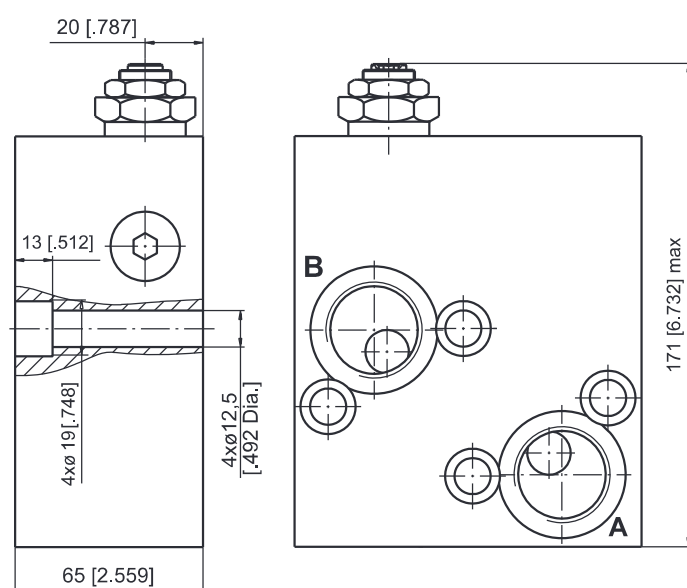
DUAL VALVE KPDV



SINGLE VALVE KPEAV



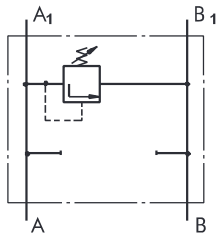
SINGLE VALVE KPEBV



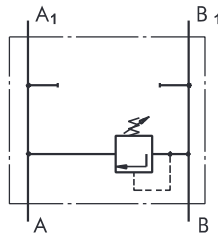
	Thread Ports - P _(A,B)
-	G1-A 20 [.79] depth
M	M33x2 20 [.79] depth
A	1 5/16 -12 UN O-ring 20 [.79] depth

Note : KPDV Blocks are installed directly on MV Motors with four screws M12x75 - 8.8 DIN 912.
KPEAV Blocks are installed directly on MV Motors with four screws M12x50 - 8.8 DIN 912.
KPEBV Blocks are installed directly on MV Motors with four screws M12x65 - 8.8 DIN 912.
 Tightening torque 7,5 daNm [665 lb-in].

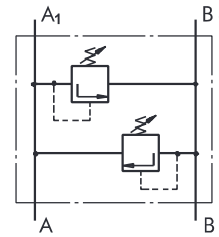
VALVES for RW and HW HYDRAULIC MOTORS



Single Crossover
Relief Valve
type KPEAW ...



Single Crossover
Relief Valve
type KPEBW ...



Dual Crossover
Relief Valve
type KPDW ...

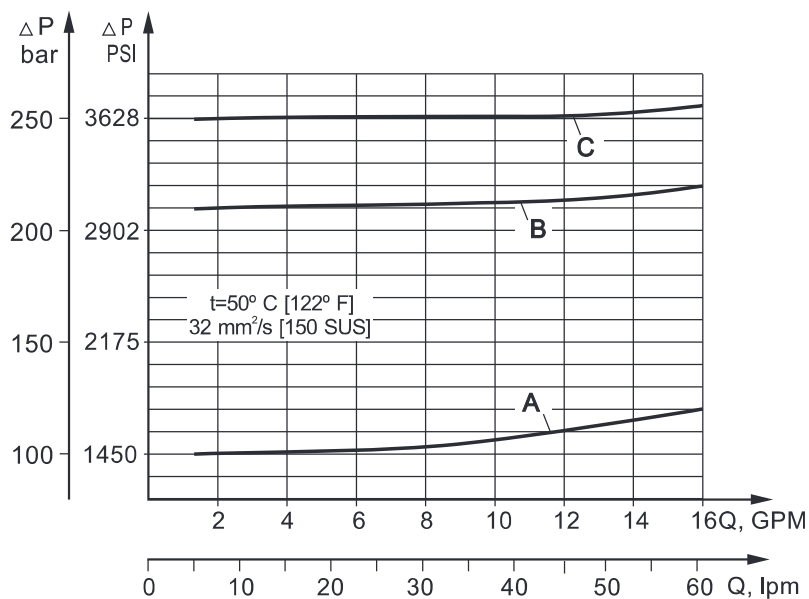
SPECIFICATION DATA

Parameters	Type	
	KPE...W	KPDW
Flow Rate , lpm [GPM]	60 [15.85]	
Pressure Range* , bar [PSI]	5 ÷ 40; 30 ÷ 100; 80 ÷ 250 [75÷580]; [435÷1450]; [1160÷3625]	
Weight , kg [lb]	2,700 [5.95]	2,800 [6.17]

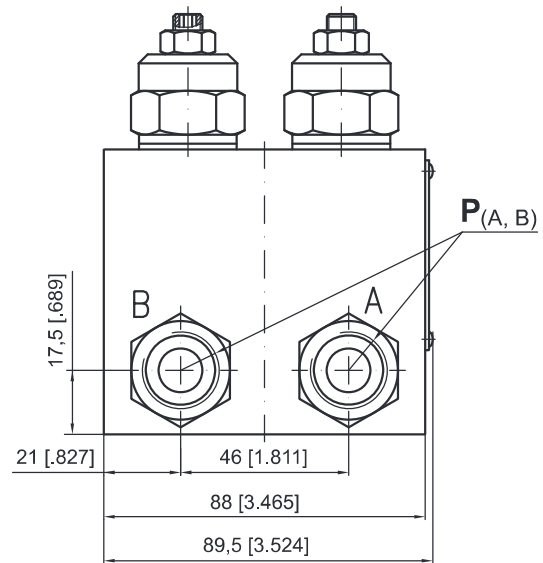
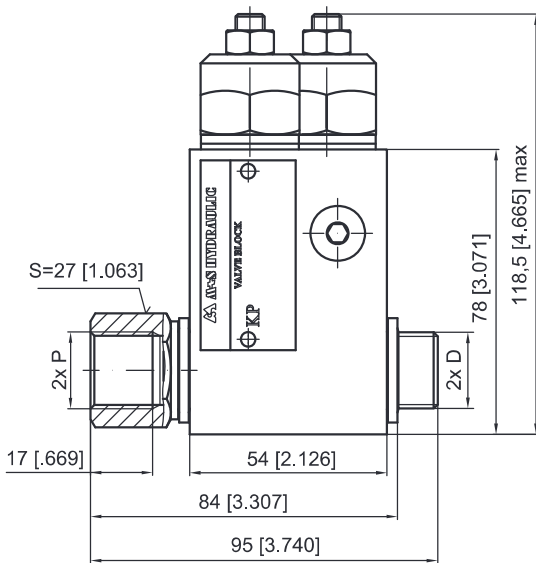
*Pressure Settings are at flow rate of 5 lpm [1.32 GPM]
and viscosity 32 mm²/s [150 SUS] (50 °C [122° F]).

Rated Pressure

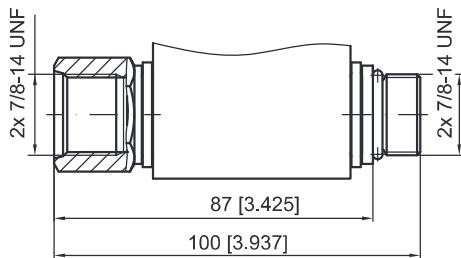
- A → 100 bar [1450 PSI]
- B → 210 bar [3050 PSI]
- C → 250 bar [3625 PSI]



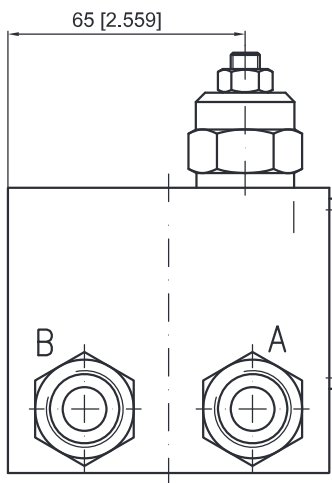
DUAL VALVE KPDW...



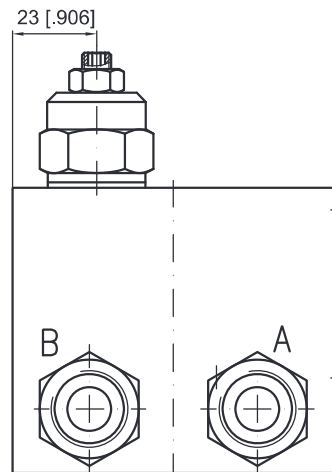
KPDW-...A



SINGLE VALVE KPEAW...



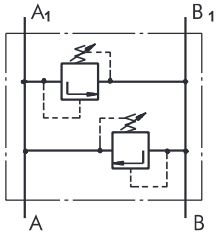
SINGLE VALVE KPEBW...



	Thread Ports - P _(A,B)	Thread Ports - D
-	G1/2 16 [.63] depth	G1/2 12 [.47] length
M	M22x1,5 16 [.63] depth	M22x1,5 12 [.47] length
A	7/8 - 14 UNF O-ring 16 [.63] depth	7/8 - 14 UNF O-ring 13 [.51] length

Note : KPDW and KPE..W Blocks assembly to RW or HW motors is done with two screws (thread D) included in the valve set. Tightening torque 8 daNm [710 lb-in].

SPECIFICATION DATA



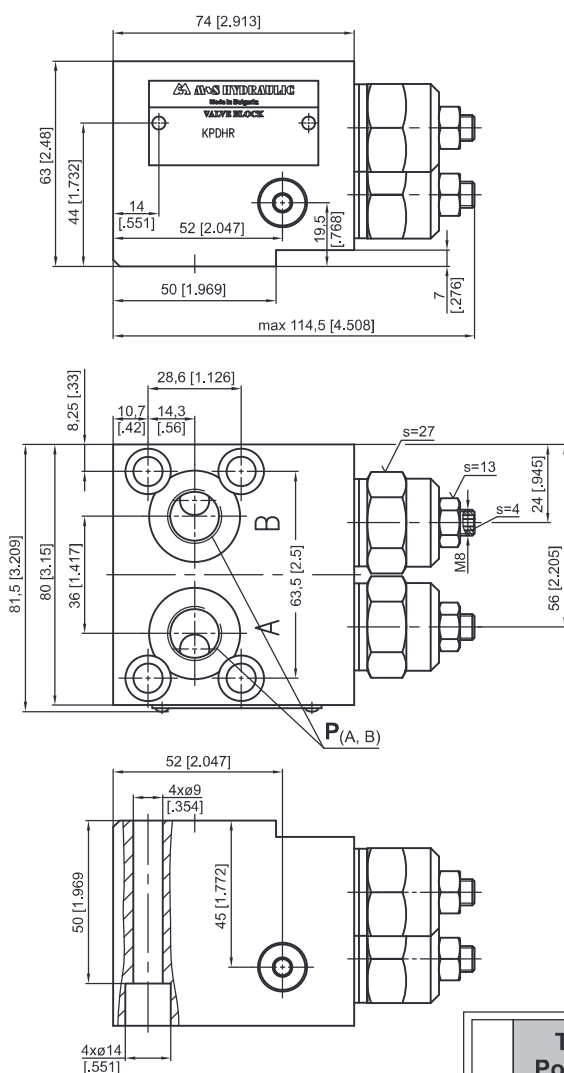
Dual Crossover Relief Valves
type KPDHR... and KPDRK...

Parameters	Type					
	KPDHR			KPDRK		
Flow Rate,lpm [GPM]	60 [15.85]					
Pressure bar	5÷40	30÷100	80÷250	10÷40	30÷100	80÷250
Range*, [PSI]	[70÷580]	[435÷1450]	[1160÷3625]	[145÷580]	[435÷1450]	[1160÷3625]
Weight, kg	2,420			1,600		
[lb]	[5.34]			[3.53]		

*Pressure Settings are at flow rate of 5 lpm [1.3 GPM] and viscosity 32 mm²/s [150 SUS] (50 °C [122° F]).

**VALVES for HP and HR
HYDRAULIC MOTORS**

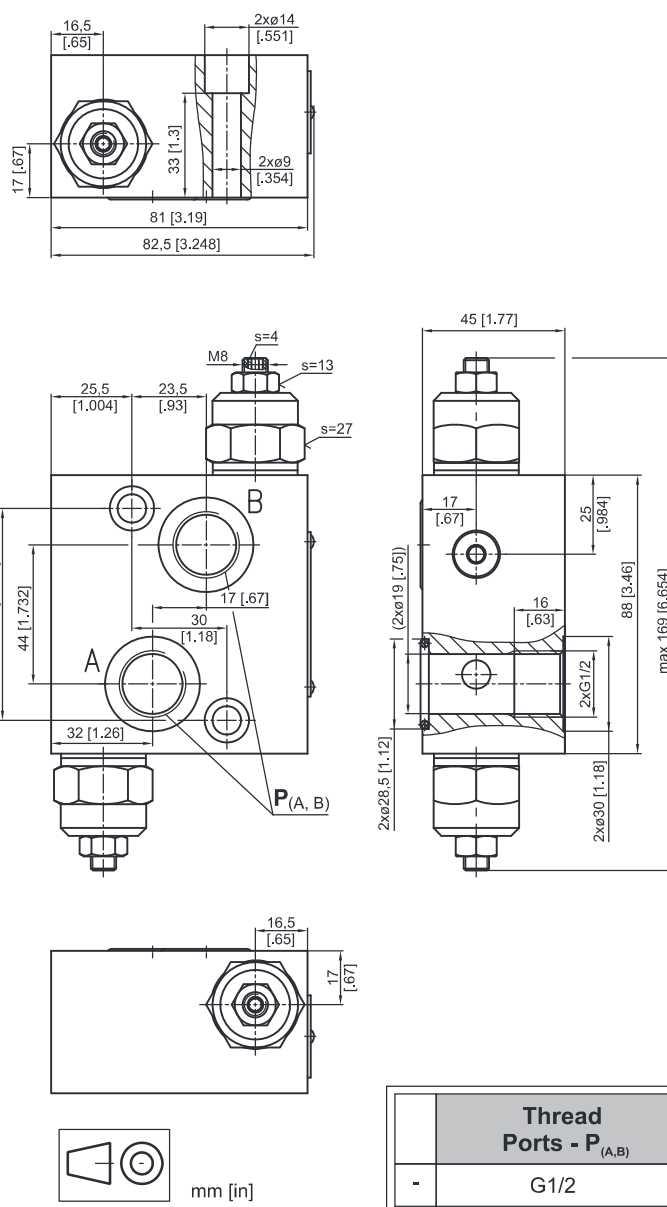
DUAL VALVE KPDHR



	Thread Ports - P _(A,B)
-	G3/8
M	M18x1,5
A	3/4-16 UNF O-ring

**VALVES for RK
HYDRAULIC MOTORS**

DUAL VALVE KPDRK



	Thread Ports - P _(A,B)
-	G1/2

ORDER CODE - OVERCENTER VALVES WITH BRAKE CONTROL

1	2	3	4	5	6	7
K P B	-	/	/			

Pos.1 - Housing Type

- R** - Valve block for MP, MR and MH Motors
- S** - Valve block for MS Motors
- W** - Valve block for RW and HW Motors
- T** - Valve block for MT Motors
- V** - Valve block for MV Motors
- HR** - Valve block for HP and HR Motors

Pos.2 - Pressure Range, bar [PSI]

250 - 70÷250 [1015÷3625], Std Setting 250 bar@5 lpm

Pos.3 - Pilot Ratio

1 - 4,25:1

Pos.4 - Number of Valves

- D** - Two Valves - Dual
- E** - One Valve - Single (for R and S only)
- AE** - One Valve on line A - Single (for T,V,W,HP and HR)
- BE** - One Valve on line B - Single (for T,V,W,HP and HR)

Pos.5 - Threaded Ports

- omit - BSPP thread - ISO 228
- M** - Metric thread - ISO 262
- A** - Unified inch screw threads ANSI B 1.1 - 1982

Pos.6 - Option [Paint]**

- omit - no Paint
- P** - Painted
- PC** - Corrosion Protected Paint

Pos.7 - Design Series

- omit - Factory specified

Notes: * Color at customer's request.

ORDER CODE - SWITCH VALVES

1	2	3	4
K P W			

Pos.1 - Housing Type

- R** - Valve block for MP, MR and MH Motors
- S** - Valve block for MS Motors
- T** - Valve block for MT Motors
- V** - Valve block for MV Motors

Pos.2 - Threaded Ports

- omit - BSPP thread - ISO 228
- M** - Metric thread - ISO 262
- A** - Unified inch screw threads ANSI B 1.1 - 1982

Pos.3 - Option [Paint]**

- omit - no Paint
- P** - Painted
- PC** - Corrosion Protected Paint

Pos.4 - Design Series

- omit - Factory specified

Notes: * Color at customer's request.

ORDER CODE - CROSSOVER RELIEF VALVE

1	2	3	4	5	6
K P			/		

Pos.1 - Number of Valves

- D** - Two Valves - Dual
- E** - One Valve - Single (for R and S only)
- EA** - One Valve on line A - Single (for T, V and W only)
- EB** - One Valve on line B - Single (for T, V and W only)

Pos.2 - Housing Type

- R** - Valve block for MP, MR and MH Motors
- S** - Valve block for MS Motors
- W** - Valve block for RW and HW Motors
- T** - Valve block for MT Motors
- V** - Valve block for MV Motors

Pos.3 - Pressure Range, bar [PSI]

- 100*** - 30÷100 [435÷1450], Std Setting 100 bar@5 lpm
- 210*** - 50÷210 [725÷3050], Std Setting 210 bar@5 lpm
- 300*** - 80÷300 [1160÷4350], Std Setting 250 bar@5 lpm
- 210**** - 80÷210 [1160÷3050], Std Setting 210 bar@5 lpm
- 100***** - 10÷100 [145÷1450], Std Setting 100 bar@5 lpm
- 250***** - 20÷250 [290÷3625], Std Setting 250 bar@5 lpm

Pos.4 - Threaded Ports

- omit - BSPP thread - ISO 228
- M** - Metric thread - ISO 262
- A** - Unified inch screw threads ANSI B 1.1 - 1982

Pos.5 - Option [Paint]****

- omit - no Paint
- P** - Painted
- PC** - Corrosion Protected Paint

Pos.6 - Design Series

- omit - Factory specified

Notes: * Useful for types R and S only.
 ** Useful for types T only.
 *** Useful for types V only.
 **** Color at customer's request.

The Valve Blocks are mangano phosphatized as standard.