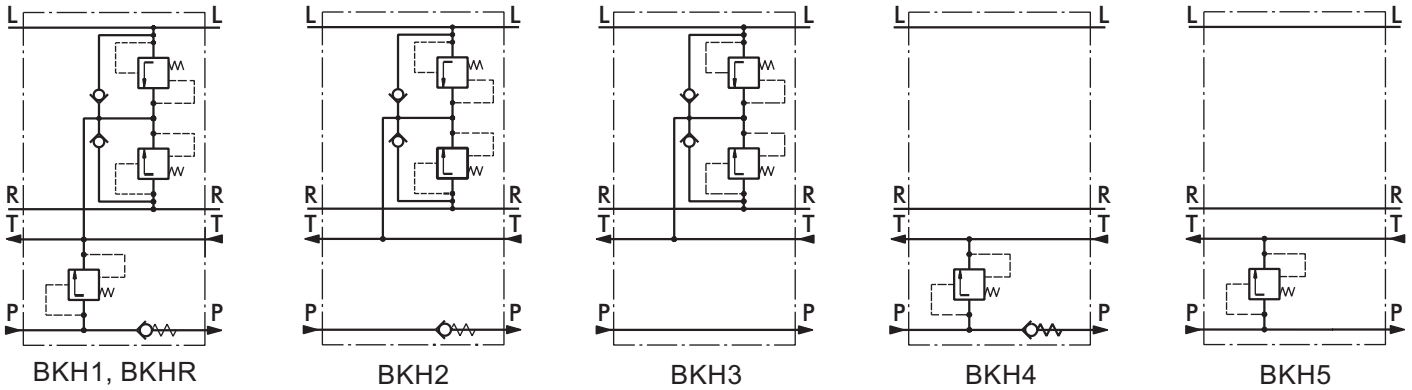


# VALVE BLOCKS FOR HKU AND XY TYPE BKH...



The M+S Hydraulic BKH valves are developed to protect the components of the hydraulic circuit: pumps, steering units and cylinders - from overloads, impacts and cavitation. Some of their advantages are: easy integration into any hydraulic circuit, easy mounting to the steering unit, and quick and easy hose connections. Depending on the design and the built in valves the BKH valves can be divided into 6 types: BKH1 ... BKH5 and BKHR, with BKH5 designed for XY steering units only. The maximum flow rate is in compliance with the whole range of HKU and XY steering units but no more than 80 l/min. The pressure settings for the entry relief valves and the shock valves are presented in the table.



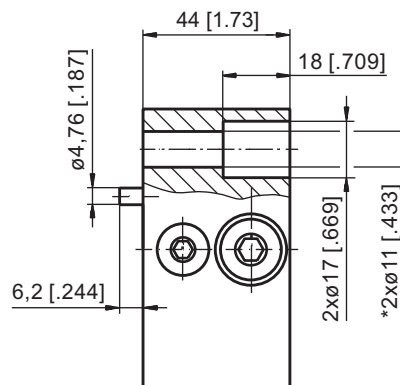
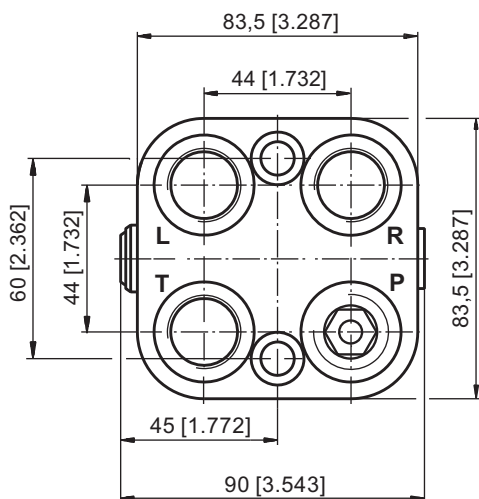
## SPECIFICATION DATA

Parameters	Type										
	BKH1, BKHR				BKH2	BKH3	BKH4, BKH5				
Rated Flow	lpm	80									
	[GPM]	[21.1]									
Rated Pressure	bar	160									
	[PSI]	[2320]									
Relief Valve Pressure Settings*	bar	80	100	125	150	-	-	80	100	125	150
	[PSI]	[1160]	[1450]	[1810]	[2175]			[1160]	[1450]	[1810]	[2175]
Shock Valves Pressure Settings**	bar	140	160	180	200	200	240	-	-	-	-
	[PSI]	[2030]	[2320]	[2610]	[2900]	[2900]	[3480]				
Weight	kg	1,8 , 2,3				1,8		1,8			
	[lb]	[4.0] , [5.1]				[4.0]		[4.0]			

\* Pressure Settings are at flow rate of 30 lpm [7.92 GPM] and viscosity 21 mm<sup>2</sup>/s [105 SUS] at 50° C [122°F].

\*\* Pressure Settings are at flow rate of 2 lpm [.53 GPM] and viscosity 21 mm<sup>2</sup>/s [105 SUS] at 50° C [122°F].

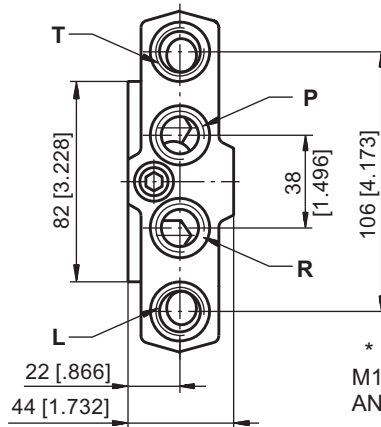
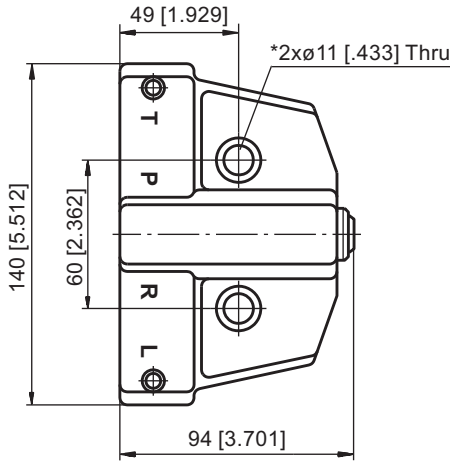
## DIMENSIONS AND MOUNTING DATA - BKH1, 2, 3, 4



Code	Ports - P, T, R, L Thread
-	G1/2 20 [.80] depth
M	M22x1,5 20 [.80] depth
A	3/4 - 16 UNF O-ring 20 [.80] depth

\* Connection to the HKU is done with 2 screws M10x1x40 -8.8 DIN 912 or with 2 screws 3/8-24 UNF ANSI B18.3-76, long 1.5". Tightening torque: 2,5±0,5 daNm [177±265 lb-in].

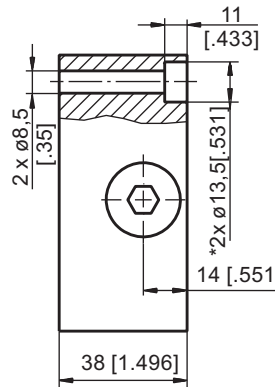
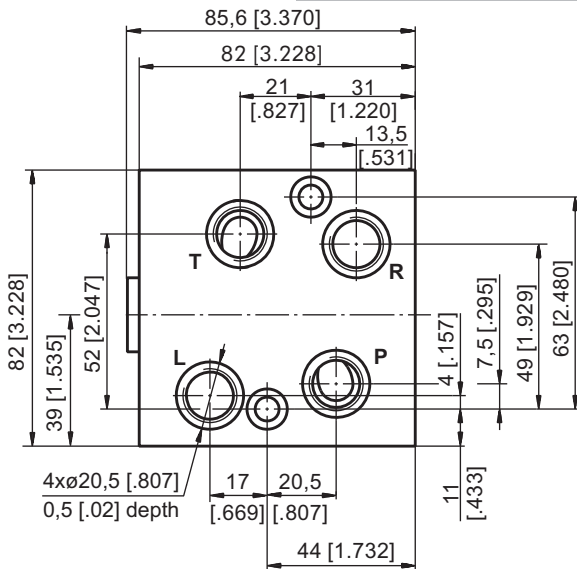
**DIMENSIONS AND MOUNTING DATA - BKHR**



<b>Code</b>	<b>Ports - P, T, R, L Thread</b>
<b>M</b>	M18x1,5 22 [.87] depth
<b>A</b>	3/4 - 16 UNF O-ring 22 [.87] depth

\* Connection to the HKU is done with 2 screws M10x1x40 -8.8 DIN 912 or with 2 screws 3/8-24 UNF ANSI B18.3-76, long 1.5".  
Tightening torque: 2,5±0,5 daNm [177÷265 lb-in].

**DIMENSIONS AND MOUNTING DATA - BKH5**



<b>Code</b>	<b>Ports - P, T, R, L Thread</b>
<b>M</b>	M16x1,5 14 [.55] depth

\* Connection to the XY is done with 2 screws M8x1x40 -8.8 DIN 912. Tightening torque: 2,5±0,5 daNm [177÷265 lb-in].

**ORDER CODE**

<b>BKH</b>	1	2	3	4	5
	-	-			

**Pos.1 - Versions\***

<b>R</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
•	•			•	•	- Input relief valve on line "P"
•	•	•		•		- Input check (non-return) valve on line "P"
•	•	•	•			- Shock valves on lines "R" and "L"
•	•	•	•			- Anti-cavitation valves on lines "R" and "L"

**Pos.2 - Relief Valve Pressure Settings, bar\*\***

<b>80</b>	<b>100</b>	<b>125</b>	<b>150</b>
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**Pos.3 - Ports\*\*\***

- omit - BSPP (ISO 228)
- A** - SAE (ANSI B 1.1 - 1982)
- M** - Metric (ISO 262)

**Pos.4 - Options (Paint)\*\*\*\***

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

**Pos.5 - Design Series**

- omit - Factory specified

**Notes:** \* Versions **R, 1, 2, 3, 4** - for **HKU**; **5** - for **XY**.  
\*\* That does not concern version **2** and **3**.  
\*\*\* For Port size see drawings on page 19 and 20.  
\*\*\*\* Colour at customer's request.

The valve blocks are mangano-phosphatized as standard.