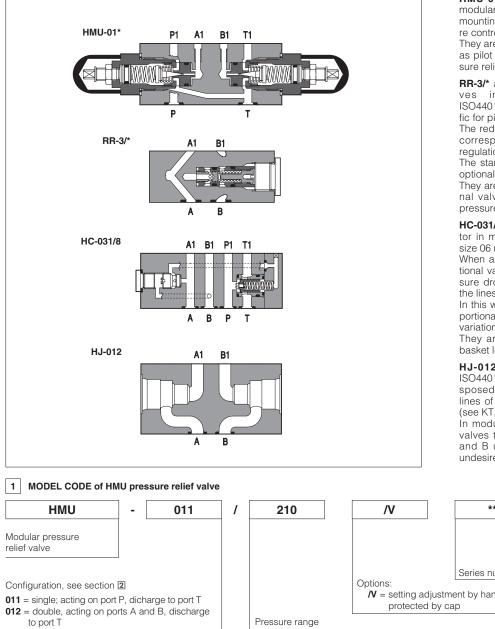


# Modular valves HMU, RR-3/\*, HC-031 and plates type HJ-012

pressure relief, pressure reducing, pressure compensator, modular plate for cartridge valves

# Available only on request



HMU-01 are pressure relief valves in modular execution with ISO4401 size 06 mounting surface, specific for fine pressure control at low flow. They are mainly used for piloting lines and

as pilot stage for AGAM and ARAM pressure relief valves.

RR-3/\* are 2 way pressure reducing valves in modular execution with ISO4401size 06 mounting surface, specific for piloting lines.

The reduced pressure has a fixed setting correspondent to the load value of the regulation spring.

The standard setting is 30 bar, available optional settings 7, 14, 24 bar

They are mainly used on DPZO proportional valves to ensure a stable reduced pressure to the pilot valve.

HC-031/8 is a 3 way pressure compensator in modular execution with ISO4401, size 06 mounting surface.

When assembled with directional proportional valves, it provides a constant pressure drop = 8 bar (fixed setting) across the lines P-A or P-B

In this way the flow controlled by the proportional valve is independent to the load variations at the user ports.

They are mainly used in sky lift for the basket levelling control.

HJ-012 is a modular plate with ISO4401size 06 mounting surface, predisposed for the installation on A and B lines of cartridge valves type JO-DL-4-2 (see KT, tab. E115)

In modular combination with directional valves they are used to intercept the A and B user lines and thus prevent the undesired movement of the actuator.

HMU	- 011	1	210	/V	**	/*
Modular pressure relief valve						Seals material - = NBR <b>PE</b> = FKM
Configuration, see section 2 011 = single; acting on port P, dicharge to port T 012 = double, acting on ports A and B, discharge				Options: <b>N</b> = setting adju protected b	Series number	stead of a grub screw
to port T 013 = single, acting on port A 014 = single, acting on port B	A, discharge to port T		Pressure range <b>50</b> = 2÷ 50 bar <b>210</b> = 10÷210 bar	<b>100</b> = 3÷1 <b>350</b> = 15÷3		

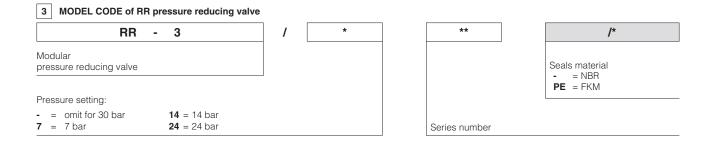
#### 2 HYDRAULIC CHARACTERISTICS of HMU pressure relief valve

HMU-011/***		HMU-012/***	HMU-013/***		HMU-014/***	
P1	T1	P1 A1 B1 T1	P1 A1	B1 T1	P1 A1 B1 T1	
P						
Setting	[bar]	/50	/100	/210	/350	
Pressure range	[bar]	2÷50	3÷100	7÷210	8÷350	
Max flow	[l/min]		2,	5	,	



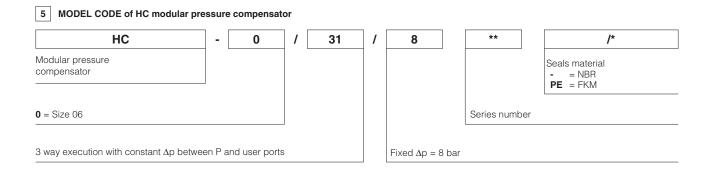
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# 4 HYDRAULIC CHARACTERISTICS of RR pressure reducing valve

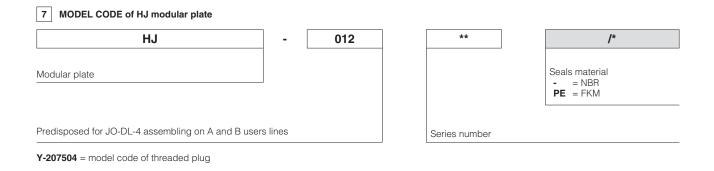
		P	T A B T A B		
Valve model		RR-3	RR-3/7	RR-3/14	RR-3/24
Reduced pressure	[bar]	30	7	14	24
Max pressure	[bar]	350			
Max flow	[l/min]	4			

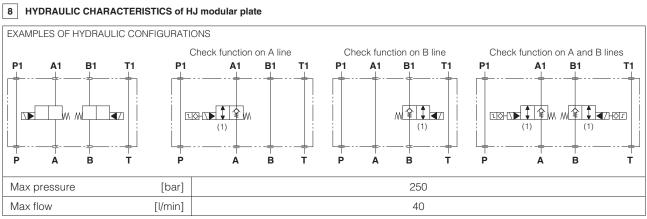


## 6 HYDRAULIC CHARACTERISTICS of HC pressure compensator

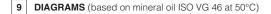
		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Regulating $\Delta p$	[bar]	8 (fixed)	
Max pressure	[bar]	350	
Max flow	[l/min]	34	

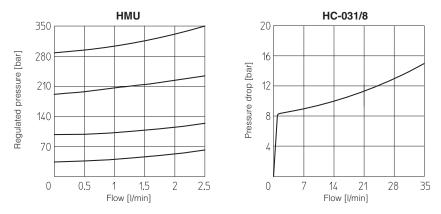






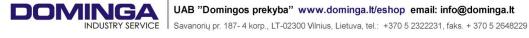
(1) Poppet type, screw-in cartridge valves type JO-DL-4-2\* to be ordered separately, see KT table E115



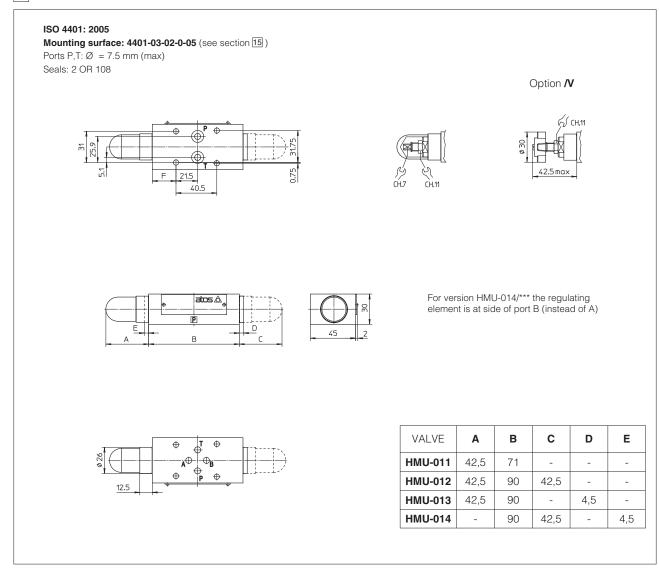


#### 10 MAIN CHARACTERISTICS

Assembly position / location	Any position		
Subplate surface finishing	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)		
Ambient temperature	-20°C to +70°		
Fluid	Hydraulic oil as per DIN 51524 535; for other fluids see section 1		
Recommended viscosity	15 ÷100 mm²/s at 40°C (ISO VG 15 ÷ 100)		
Fluid contamination class	ISO 4401 class 21/19/16 NAS 1638 class 10 (filters at 25 $\mu m$ value with $\beta_{25}$ 75 recommended)		
Fluid temperature	-20°C +60°C (standard seals) -20°C +80°C (/PE seals)		

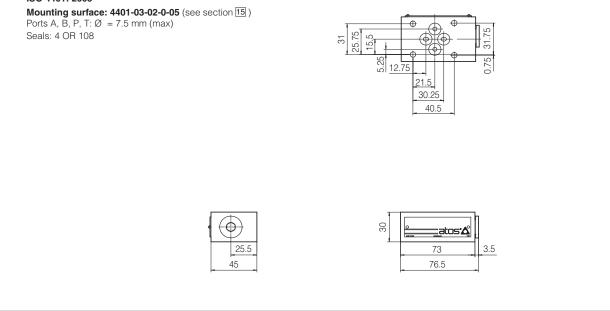


#### 11 DIMENSIONS of HMU pressure relief valve



#### 12 DIMENSIONS of RR-3 pressure reducing valve

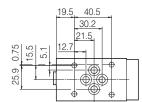
#### ISO 4401: 2005



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# ISO 4401: 2005

**Mounting surface: 4401-03-02-0-05** (see section 15) Ports A, B, P, T: Ø = 7.5 mm (max) Seals: 4 OR 108



atos A

13

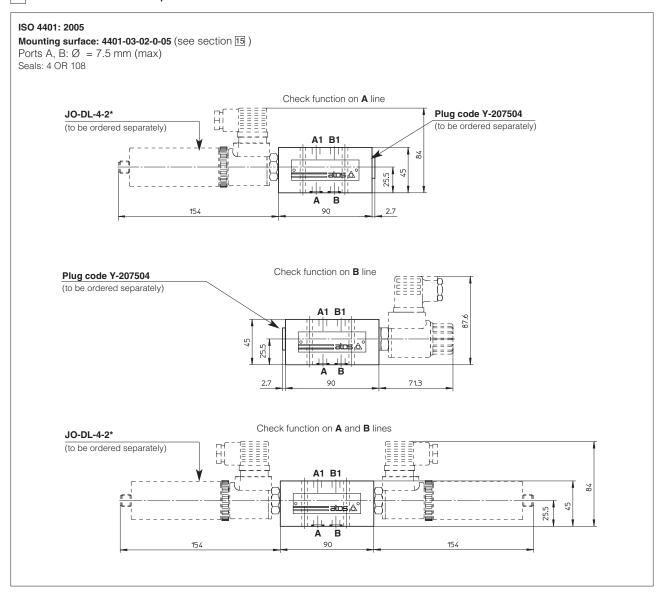
76

92.25



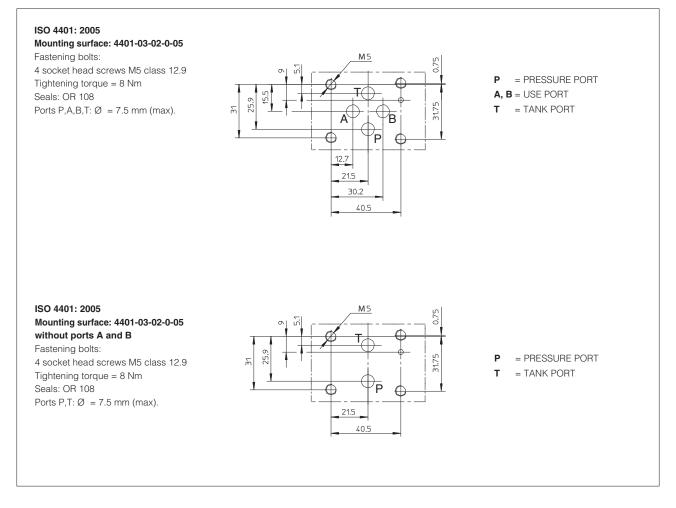


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