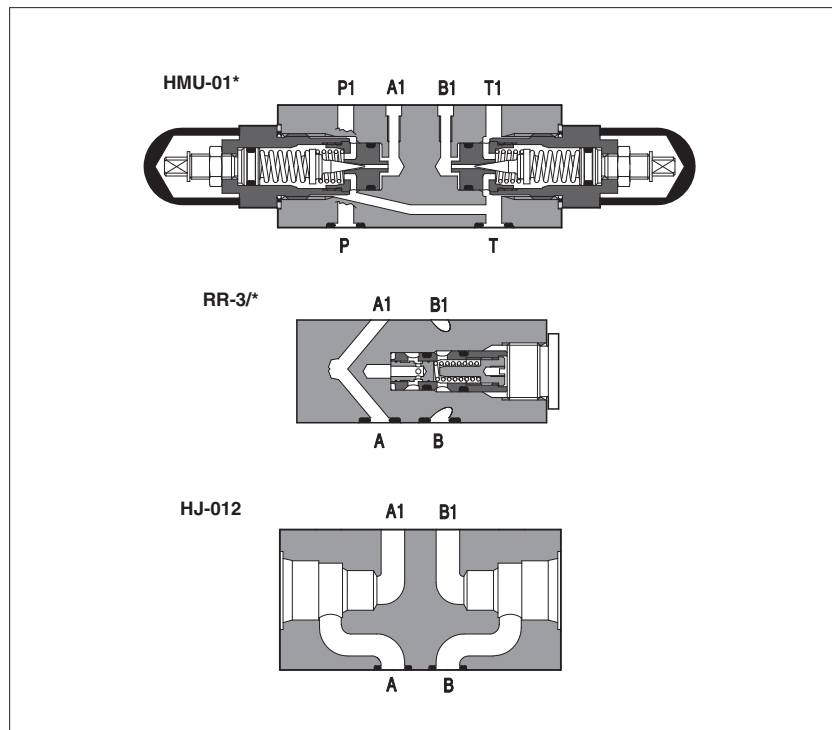


Modular valves HMU, RR-3/* and plates type HJ-012

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

Availability and price 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.

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. E105)

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.

1 MODEL CODE of HMU pressure relief valve

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

2 HYDRAULIC CHARACTERISTICS of HMU pressure relief valve

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

3 MODEL CODE of RR pressure reducing valve

RR - 3

Modular pressure reducing valve

Pressure setting:

- = omit for 30 bar **14** = 14 bar
7 = 7 bar **24** = 24 bar

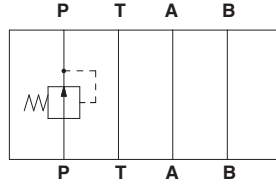
/ *****

/*

Seals material
 - = NBR
PE = FKM

Series number

4 HYDRAULIC CHARACTERISTICS of RR pressure reducing valve



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			

5 MODEL CODE of HJ modular plate

HJ

Modular plate

Predisposed for JO-DL-4 assembling on A and B users lines

Y-207504 = model code of threaded plug

- **012**

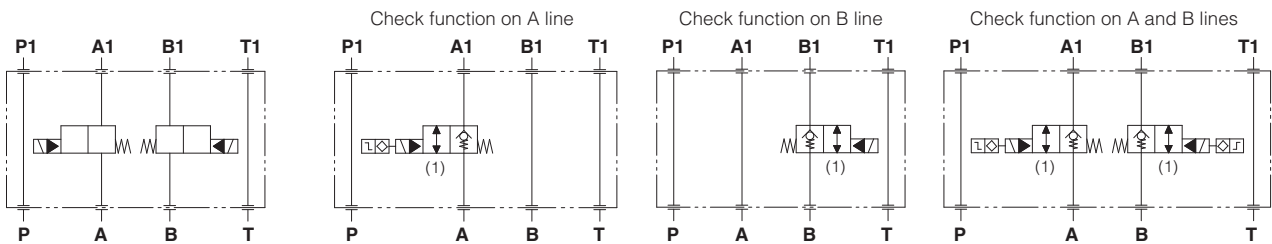
/*

Seals material
 - = NBR
PE = FKM

Series number

6 HYDRAULIC CHARACTERISTICS of HJ modular plate

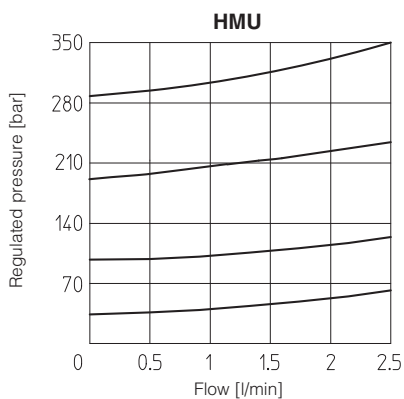
EXAMPLES OF HYDRAULIC CONFIGURATIONS



Max pressure [bar]	250
Max flow [l/min]	40

(1) Poppet type, screw-in cartridge valves type JO-DL-4-2* to be ordered separately, see KT table E105

7 DIAGRAMS (based on mineral oil ISO VG 46 at 50°C)



8 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
Recommended viscosity	15 ÷ 100 mm ² /s at 40°C (ISO VG 15 ÷ 100)
Fluid contamination class	ISO 4401 class 21/19/16 NAS 1638 class 10 (filters at 25 µm value with β ₂₅ ≥ 75 recommended)
Fluid temperature	-20°C +60°C (standard seals) -20°C +80°C (/PE seals)

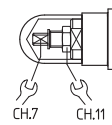
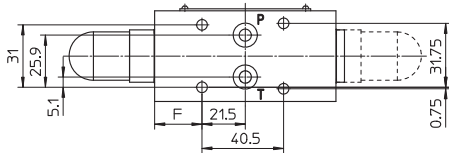
9 DIMENSIONS of HMU pressure relief valve

ISO 4401: 2005

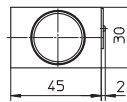
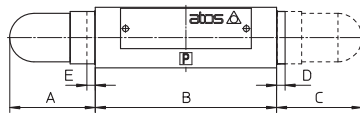
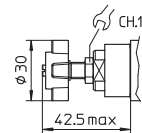
Mounting surface: 4401-03-02-0-05 (see section 12)

Ports P, T: Ø = 7.5 mm (max)

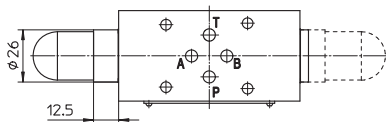
Seals: 2 OR 108



Option IV



For version HMU-014/*** the regulating element is at side of port B (instead of A)



VALVE	A	B	C	D	E
HMU-011	42,5	71	-	-	-
HMU-012	42,5	90	42,5	-	-
HMU-013	42,5	90	-	4,5	-
HMU-014	-	90	42,5	-	4,5

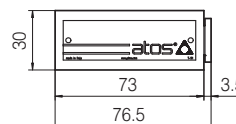
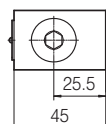
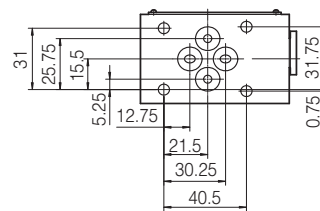
10 DIMENSIONS of RR-3 pressure reducing valve

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05 (see section 12)

Ports A, B, P, T: Ø = 7.5 mm (max)

Seals: 4 OR 108



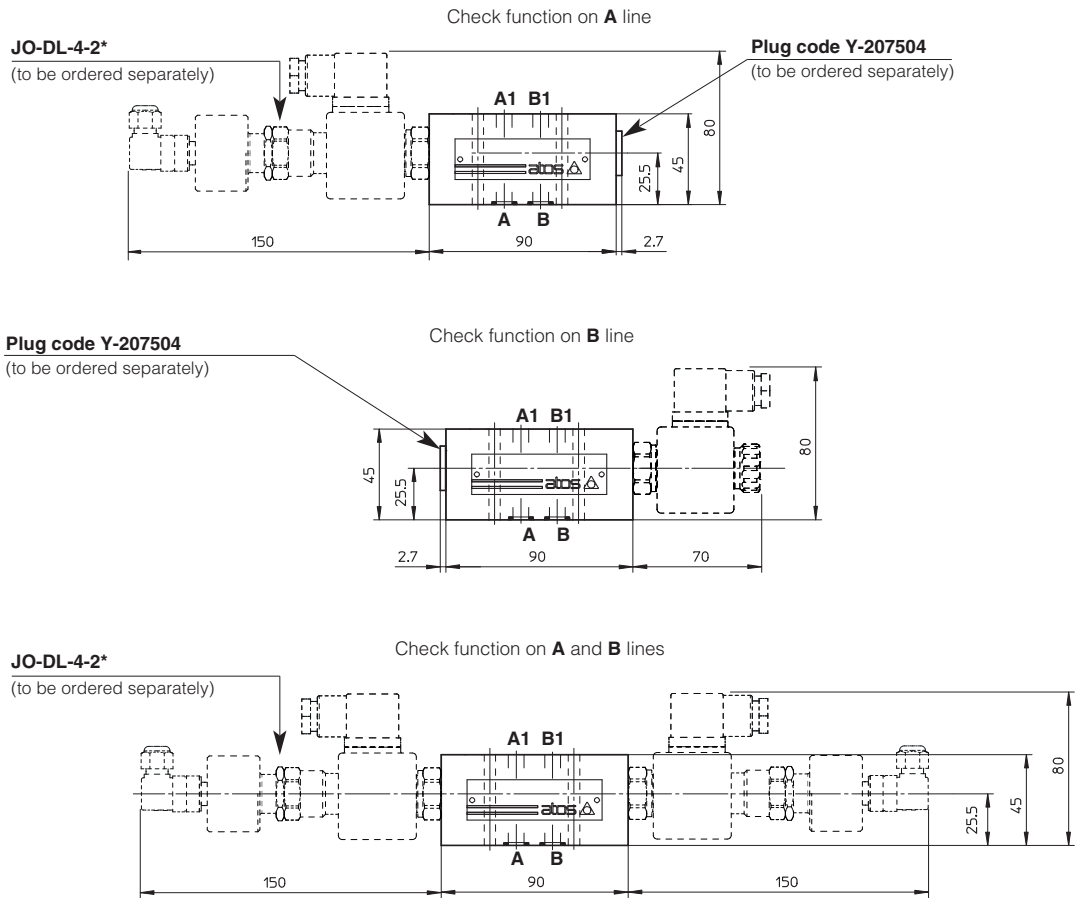
11 DIMENSIONS of HJ modular plate

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05 (see section 12)

Ports A, B: $\varnothing = 7.5$ mm (max)

Seals: 4 OR 108



12 MOUNTING SURFACE dimensions [mm]

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05

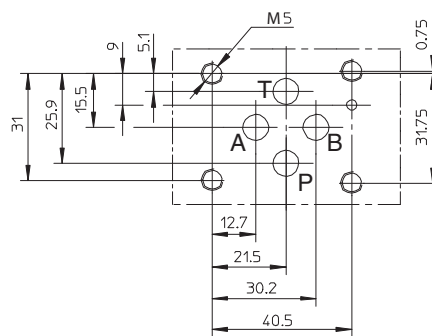
Fastening bolts:

4 socket head screws M5 class 12.9

Tightening torque = 8 Nm

Seals: OR 108

Ports P,A,B,T: $\varnothing = 7.5$ mm (max).



P = PRESSURE PORT
A, B = USE PORT
T = TANK PORT

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05

without ports A and B

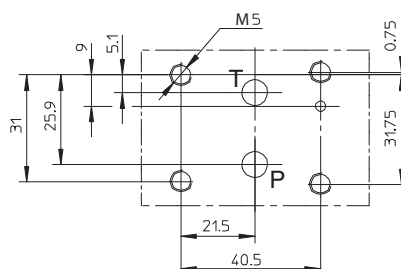
Fastening bolts:

4 socket head screws M5 class 12.9

Tightening torque = 8 Nm

Seals: OR 108

Ports P,T: $\varnothing = 7.5$ mm (max).



P = PRESSURE PORT
T = TANK PORT