

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

/ *****

Series number

/*

Seals material
 - = NBR
PE = FKM

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 HC modular pressure compensator

HC

Modular pressure compensator

0 = Size 06

3 way execution with constant Δp between P and user ports

- **0** / **31** / **8**

Series number

Fixed $\Delta p = 8$ bar

/*

Seals material
 - = NBR
PE = FKM

6 HYDRAULIC CHARACTERISTICS of HC pressure compensator

Regulating Δp [bar]	8 (fixed)		
Max pressure [bar]	350		
Max flow [l/min]	34		

7 MODEL CODE of HJ modular plate

HJ	-	012	**	/*
Modular plate				Seals material - = NBR PE = FKM
Predisposed for JO-DL-4 assembling on A and B users lines			Series number	

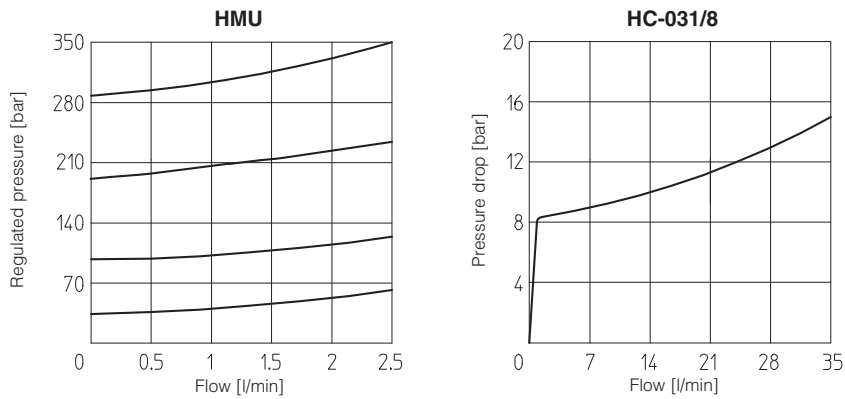
Y-207504 = model code of threaded plug

8 HYDRAULIC CHARACTERISTICS of HJ modular plate

EXAMPLES OF HYDRAULIC CONFIGURATIONS				
Check function on A line				
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 E115

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



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 I
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)

11 DIMENSIONS of HMU pressure relief valve

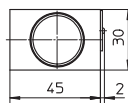
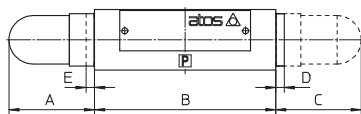
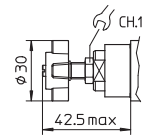
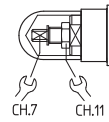
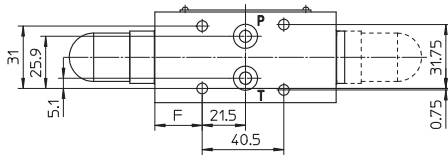
ISO 4401: 2005

Mounting surface: 4401-03-02-0-05 (see section 15)

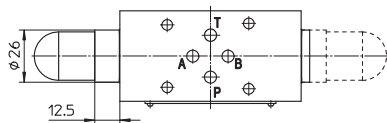
Ports P,T: $\varnothing = 7.5$ mm (max)

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

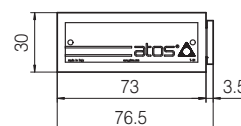
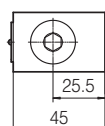
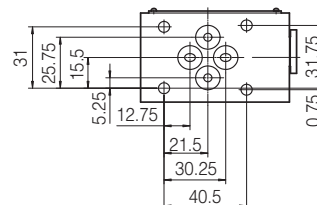
12 DIMENSIONS of RR-3 pressure reducing valve

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05 (see section 15)

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

Seals: 4 OR 108



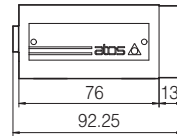
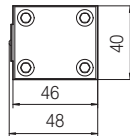
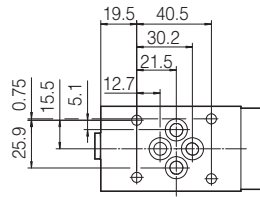
13 DIMENSIONS of HC-031/8 pressure compensator

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05 (see section 15)

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

Seals: 4 OR 108



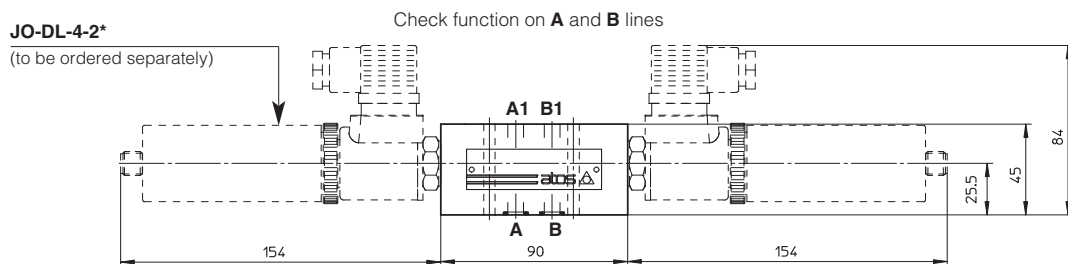
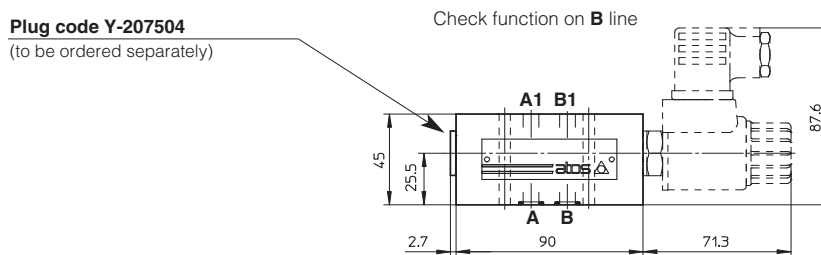
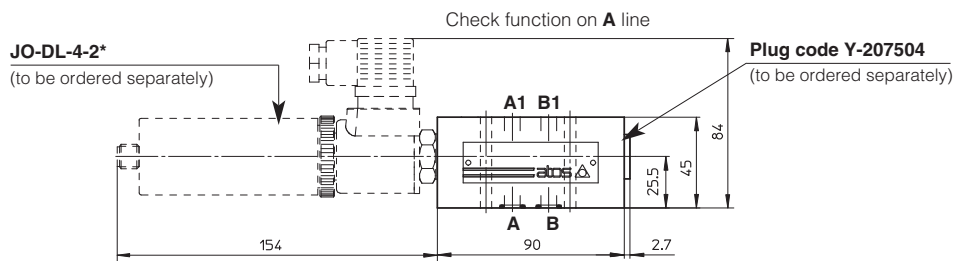
14 DIMENSIONS of HJ modular plate

ISO 4401: 2005

Mounting surface: 4401-03-02-0-05 (see section 15)

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

Seals: 4 OR 108

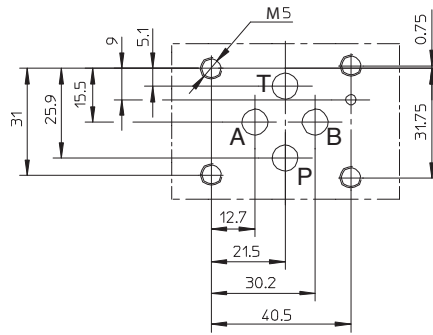


15 MOUNTING SURFACE dimensions [mm]

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).

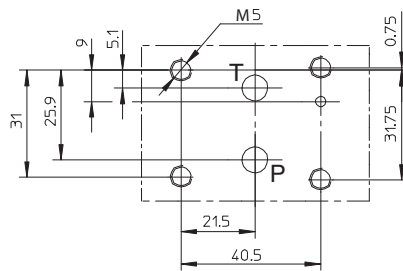


P = PRESSURE PORT
A, B = USE PORT
T = TANK PORT

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