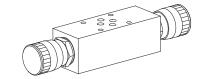


## Restrictor valve with reverse free flow check Sandwich construction

• Q<sub>max</sub> = 70 l/min

• Q<sub>N</sub> = 40 l/min • p<sub>max</sub> = 350 bar

# NG6 ISO 4401-03



### **DESCRIPTION**

Restrictor valve sandwich type NG6 with interface to ISO 4401-03. The non-return throttle valve is available in two different variants, namely the standard and the precision throttle (FD). The turning knob is made from aluminium, the sandwich plate made of steel is zinc-nickel coated.

### **FUNCTION**

Using the precision thread adjusting spindle, the restriction of the volume flow can be continuously adjusted. With the spindle fully screwed home, the volume flow is zero. and a metallic edge makes a leak-tight closure. In the opposite direction, the spring-loaded tapered piston opens and volume flow with a load pressure drop is enabled. The throttle effect is produced ba an annular gap which can be varied in size, or by means of a triangular edge. Because of the nature of the design, there is only a small amount of leakage.

#### **APPLICATION**

Sandwich type, one-way restrictors are used where volume flows have to be controlled in one flow direction according to the load. Depending on the application, a distinction is made between restricting the forward flow or the return flow. These sandwich valves are particularly suitable for machine tools and also all kinds of handling operations.

### **TYPE CODE**

			Α	URD	6	#
International standard interface ISO						
Throttle check valve						
Type list / function						
Meter-out	in A in A and B	Α	in B	В		
Meter-in	in A in A and B	VA	in B	VB		
Nominal size 6						
Standard Precision throttle	-	·FD				
Design-Index (Subject t	o change)					

### **GENERAL SPECIFICATIONS**

Restrictor valve with reverse free flow check Denomination

Nominal size NG6 acc. to ISO 4401-03

Construction

Mounting 4 mounting holes for socket head cap screws

M5 or stud screws M5

Connections Threaded connection plates, Multi-flange

subplates, Longitudinal stacking system

Ambient temperature -20...+50°C

Mounting position any

Fastening torque

M<sub>D</sub> = 5,5 Nm (Qual. 8.8) for fastening screws

Depending on the type 1,8...1,9 kg Weight

### **HYDRAULIC SPECIFICATIONS**

Mineraoil, other fluid on request

Contamination efficiency ISO 4406:1999, class 20/18/14...21/19/15

(Required filtration grade ß 10...25 ≥ 75)

refer to data sheet 1.0-50/2

Viscosity range 12 mm<sup>2</sup>/s...320 mm<sup>2</sup>/s

Fluid temperature -20...+70°C

Peak pressure  $p_{max} = 350 bar$ 

Pressure required to open the check valve

p<sub>o</sub> = 2 bar Nominal volume flow rates

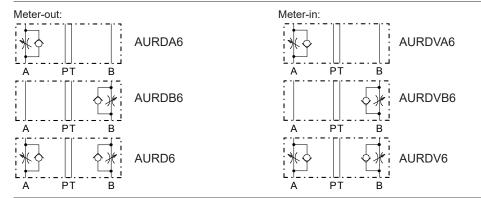
 $Q_N = 40 \text{ l/min}$ 

 $Q_N$  at 10 bar valve pressure loss

 $Q_{max}^{"}$  = 70 l/min Max. volume flow

Leakage volume flow Almost leak free with closed restrictor

### **TYPE LIST / FUNCTION**



AURDA6 AURDVA6 get get AURDB6 AURDVB6

restrictors (longitudinal axis):

AURD6 get AURDV6

Valves for restricting the meter-in flow are supplied with a sealing plate and an intermediate plate.

Valves for restricting the meter-in flow are

achieved by turning the meter-out valves

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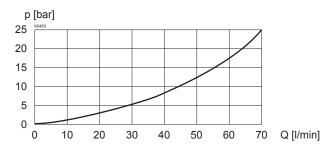
Illustrations not obligatory Data subject to change

Data sheet no. 2.4-850E 1/2 Edition 21 32

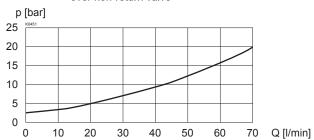


# **CHARACTERISTICS** Oil viscosity $\upsilon$ = 30 mm<sup>2</sup>/s

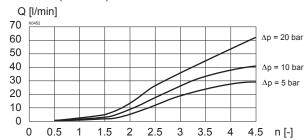
 $\Delta p = f(Q)$  Pressure loss/flow characteristics



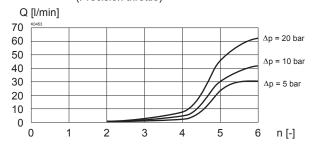
 $\Delta p$  = f (Q) Pressure loss/flow characteristics over non-return valve



Q = f (n) Volume flow adjustment characteristics (Standard)



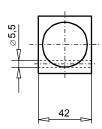
Q = f (n) Volume flow adjustment characteristics (Precision throttle)

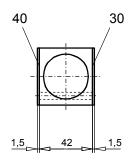


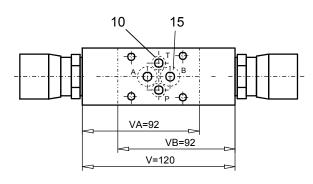
## **DIMENSIONS**



Meter-in







# PARTS LISTS

Position	Article	Description
10	160.2076	O-ring ID 7,65x1,78
15	160.2120	O-ring ID 12,42x1,78
		in line with check valve
20	114.1201	Turning knob
30	173.3650	Sealing plate ADB6
40	173.3700	Intermediate plate AZB6

Technical explanation see data sheet 1.0-100