

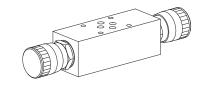
Restrictor valve with reverse free flow check Sandwich construction

• Q_{max} = 70 l/min

• Q_N = 40 l/min • p_{max} = 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 to	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

M_D = 5,5 Nm (Qual. 8.8) for fastening screws Fastening torque 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 12 mm²/s...320 mm²/s

Viscosity range Fluid temperature -20...+70°C

Peak pressure $p_{max} = 350 bar$

Pressure required to open

the check valve

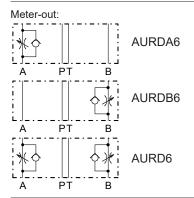
p_ö = 2 bar Nominal volume flow rates $Q_N = 40 \text{ l/min}$

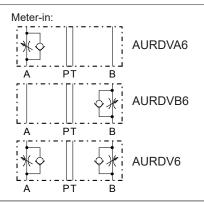
 Q_N at 10 bar valve pressure loss

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

Leakage volume flow Almost leak free with closed restrictor

TYPE LIST / FUNCTION





Valves for restricting the meter-in flow are achieved by turning the meter-out valves restrictors (longitudinal axis):

AURDA6 AURDVA6 get get AURDB6 AURDVB6 AURD6 get AURDV6

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

Wandfluh AG Postfach CH-3714 Frutigen

+41 33 672 72 72 Tel Fax +41 33 672 72 12

sales@wandfluh.com E-mail: Internet: www.wandfluh.com

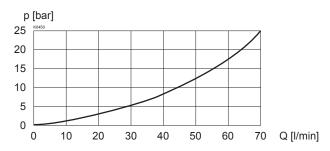
Illustrations not obligatory Data subject to change

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

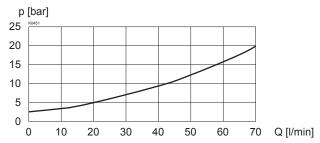


CHARACTERISTICS Oil viscosity υ = 30 mm²/s

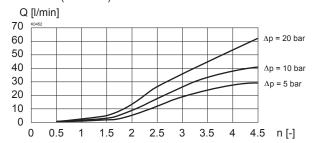
 $\Delta p = f(Q)$ Pressure loss/flow characteristics



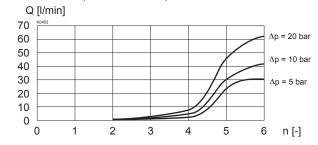
 Δp = f (Q) Pressure loss/flow characteristics over non-return valve



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



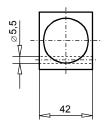
Q = f (n) Volume flow adjustment characteristics (Precision throttle)

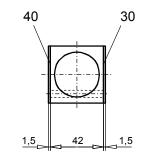


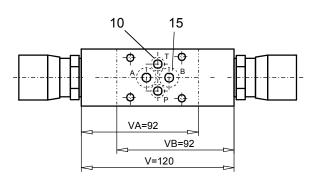
DIMENSIONS



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