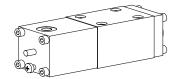


Poppet valve pneumatically operated

- 2/2-, 3/2- and 3/4-way construction
- Q_{max} = 40 l/min p_{max} = 350 bar

NG6 ISO 4401-03



DESCRIPTION

Poppet valve, flanged design NG6 according to ISO 4401-03, available as a 2/2 or 3/2-way valve (normally open or closed) and as a 3/4-way valve (normally closed). The central functioning element of all directly controlled poppet valves in the NG6 series is the poppet valve cartridge NG6. See data sheet 1.11-2030.

FUNCTION

The valve is direct operated by a pneumatically operated which in turn either opens or closes the poppet. The design of the poppet spool, which is equal in surface area on both sides and thus pressure balanced, means there are no undue opening and closing hydraulic forces. Due to this the oil flow through the poppet valve is possible in both directions. The valve is tight in both flow directions.

APPLICATION

Wandfluh poppet valves can be used anywhere absolutely leak tight closing functions are important. Completely sealed loading, gripping and clamping operations are all important functions which Wandfluh poppet valves can perform. Cartridge type poppet valves can be neatly accommodated in valve blocks. From a mechanical and functional point of view, poppet valves can replace slide valves at any time.

TYPE CODE

2/2- or 3/2-way construction 3/4-way construction International mounting inter		A A	К К 	□ 3 	2 4 	06 06	#	
Pneumatically operated								
2-way (connections) 3-way (connections)	2 3							
2 position 4 position								
Nominal size 6								
Normally closed Normally open	Pilot head on A-side Pilot head on B-side		1a 0b					
Design-Index (Subject to change)								

GENERAL SPECIFICATIONS

Description 2/2-, 3/2- and 3/4-way poppet valve NG6 acc. to ISO 4401-03 Nominal size Construction Direct operated poppet valve Operations pneumatically operated

Flange, 4 mounting holes for socket head Mounting

screws M5x45

Threaded connection plates Connections

Multi-flange subplates Longitudinal stacking system

Ambient temperature -20...+50°C

Mounting position any, preferable horizontal $M_D = 5.5 \text{ Nm (quality } 8.8)$ Fastening torque

Weight: 2/2-, 3/2-way m = 1,7 kg3/4-way m = 2,5 kg

Volume flow direction any (see characteristics)

CONTROL PNEUMATIC

p_{st' min.} = see characteristics Min. pilot pressure p_{st max} = 8 bar Max. pilot pressure

Control volume = 7 cm³

HYDRAULIC SPECIFICATIONS

Fluid Mineral oil, other fluid on request Contamination efficiency ISO 4406:1999, class 20/18/14

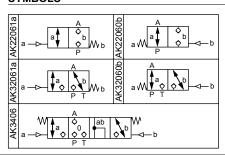
(Required filtration grade ß10...16≥75)

see data sheet 1.0-50/2 Viscosity range 12 mm²/s...320 mm²/s Fluid temperature -20... +70°C

 $p_{max} = 350 \text{ bar}$ Working pressure

Q_{max} = 40 l/min see characteristics Max. volume flow

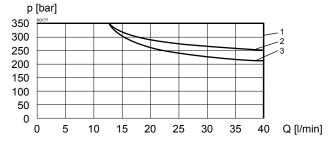
SYMBOLS





CHARACTERISTICS Oil viscosity υ = 30 mm²/s

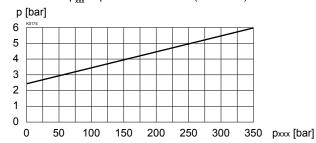
p = f (Q) Performance limit



	Flow direction				
Type	P-A	A - T	A - P	T - A	
AK22061a	1	-	1	-	
AK22060b	1	-	3	-	
AK32061a	1	2	1	1	
AK32060b	1	1	2	1	
AK3406	1	1	1	1	

 $p_{st min} = f(p_{xxx})$ Min. Pilot pressure characteristics

at \mathbf{Q}_{max} = pressure in line xxx (see table)

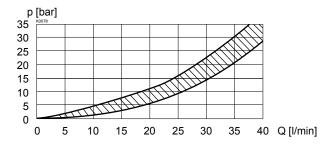


	Flow direction				
Type	P-A	A - T	A - P	T - A	
AK22061a	Α	-	Α	-	
AK22060b	Α	-	Α	-	
AK32061a	Α	Α	Α	Α	
AK32060b	Α	Α	Α	Α	
AK3406	Α	T	Α	Т	

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

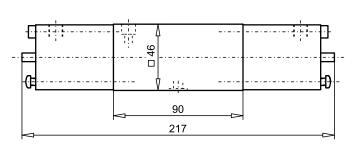
2/2-way poppet valve

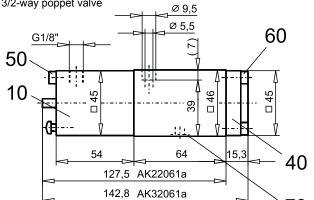
3/2-way poppet valve



DIMENSIONS

3/4-way poppet valve





70 142,8 AK32060b, AK22060b (Steuerkopf auf B-Seite / Pilot head on side B / Tête piloté au côté B)

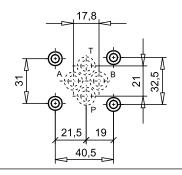
PARTS LIST

7.11.10 =10.1					
Position	Article	Description			
10	254.4050	Pneumatic pilot head CKII			
40	058.4215	Cover			
50	246.2160	Socket head cap screw M5x60 DIN 912			
60	246.2117	Socket head cap screw M5x16 DIN 912			
70	160.2093	O-ring ID 9.25 x 1.78			

ACCESSORIES

Threaded connections plates, Multi-flange subplates and Longitudinal stacking system see register 2.9

Technical explanation see data sheet 1.0-100



Tel. +41 33 672 72 72 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. 1.11-6140E 2/2 Edition 06 20