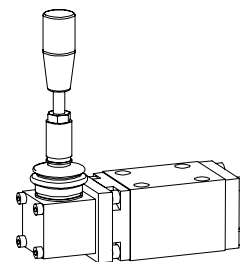


Poppet valve manually operated

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

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 manual lever 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 typ 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.

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TYPE CODE

2/2- or 3/2-way construction	A	H	☐	2	06	☐	#	☐
3/4-way construction	A	H	3	4	06		#	☐
Mounting interface								
Manual lever								
2-way (connections)			☐					
3-way (connections)			☐					
2 position								
4 position								
Nominal size 6								
Normally closed,								
Normally open,								
Manual level on A-side						☐		
Manual level on B-side						☐		
Design-Index (Subject to change)								

GENERAL SPECIFICATIONS

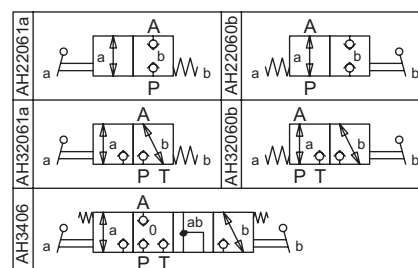
Description	2/2-, 3/2- and 3/4-way poppet valve
Nominal size	NG6 acc. to ISO 4401-03
Construction	Direct operated poppet valve
Operations	manually operated
Mounting	Flange, 4 mounting holes for socket head screws M5x45
Connections	Threaded connection plates Multi-flange subplates Longitudinal stacking system
Ambient temperature	-20...+50°C
Mounting position	any, preferable horizontal
Fastening torque	$M_D = 5,5 \text{ Nm}$ (quality 8,8)
Weight: 2/2-, 3/2-way	$m = 1,7 \text{ kg}$
3/4-way	$m = 2,5 \text{ kg}$
Volume flow direction	any (see characteristics)

CONTROL MECHANICAL

Force	$F_{b \max} = 20-120 \text{ N}$ (depending on flow direction and pressure)
Angle	$\alpha_b = 6^\circ$

HYDRAULIC SPECIFICATIONS

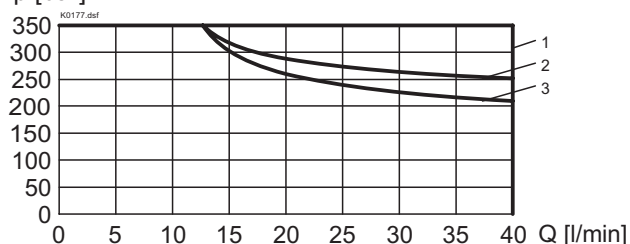
Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 20/18/14 (Required filtration grade $\beta_{10} \dots 16 \geq 75$) refer to data sheet 1.0-50/2
Viscosity range	12 mm ² /s...320 mm ² /s
Fluid temperature	-20...+70°C
Working pressure	$p_{max} = 350 \text{ bar}$
Max. volume flow	$Q_{max} = 40 \text{ l/min}$ see characteristics

SYMBOLS


CHARACTERISTICS Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$

$p = f(Q)$ Performance limit

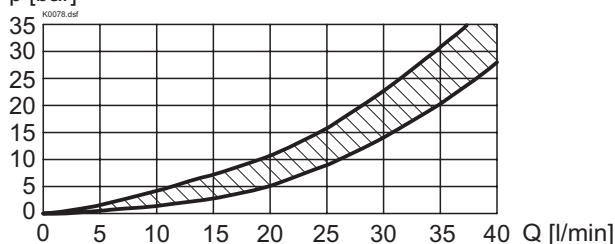
p [bar]



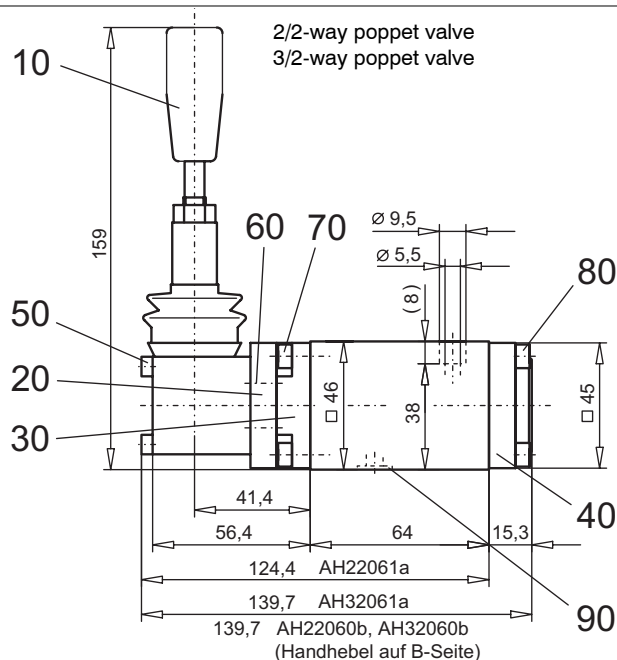
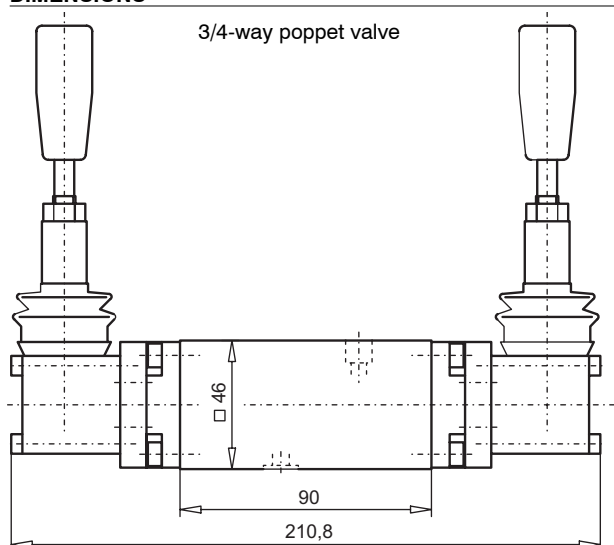
Type	Flow direction			
	P - A	A - T	A - P	T - A
AH22061a	1	-	1	-
AH22060b	1	-	3	-
AH32061a	1	2	1	1
AH32060b	1	1	2	1
AH3406	1	1	1	1

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

p [bar]



DIMENSIONS



PARTS LIST

Position	Article	Description
10	253.2000	Manual pilot head BH11
20	074.1802	Flange
30	074.2702	Flange
40	058.4215	Cover
50	246.1140	Socket head cap screw M4x40 DIN 912
60	246.1010	Socket head cap screw M4x10 DIN 912
70	246.2112	Socket head cap screw M5x12 DIN 912
80	246.2117	Socket head cap screw M5x16 DIN 912
90	160.2093	O-ring ID 9,25x1,78

ACCESSORIES

Threaded connection plates, Multi-flange subplates and
Longitudinal stacking system see Register 2.9

Technical explanation see data sheet 1.0-100E

