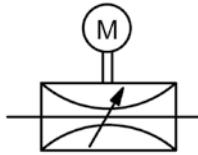


MOTORISED PROPORTIONAL FLOW VALVE

P8

Description	Motorised proportional flow valve with low power consumption and resistance to contamination. Throttle setting by wear-resistant control drives made of oxide ceramic. Throttling occurs with drip-tight zero shut-off but no gas tightness.	
Media Operation	compressed air, vacuum or liquids up to viscosity of 40 mm ² /s	Hysteresis $\pm 4\%$
DC motor (15 / 24)	DC, synchronous or stepping motor with standard voltage of 24 V DC or AC $\pm 10\%$ residual ripple. All motors fulfil standards EN50.081-1, EN50.082-2 and 89/336/EEC.	
DC motor (50 / 51)	Motor with feedback potentiometer for servo-amplifier. Resistor $1k\Omega \pm 20\%$, control e.g. by servo-amplifier. Only part of potentiometer range is used. Voltage for potentiometer: 12 V, max. 10 mA.	
Stepper motor (38)	With integrated position controller. Setpoint input using jumpers: 0...10 V, 0/4...20 mA.	
Temperature range	10 °C to 90 °C / 14 °F to 194 °F	
Material	Body: brass Elastomer: NBR/Buna-N, optionally FKM or EPDM	Protection class IP 54 Control discs: oxide ceramic

Prop.-V.
11



G½ up to G1
compressed air or liquids

Dimensions	Nominal size	K _v -value (m ³ /h)	Flow rate water l/min ^{*1}	Flow rate air l/min ^{*1}	Supply max. bar	Connection thread G	Order number
A mm	B mm	C mm	DN	(m ³ /h)	l/min ^{*1}	bar	G

Proportional flow valve

DC motor type 15, with potentiometer, 120 Ncm, 24 V DC, switching time 10...14 s^{*2}

P8

55	147	13	15	1.1	0...20	0...1000	10	G½	P822-15
55	147	13	20	3.4	0...60	0...3000	6	G½	P82A-15
95	164	24	20	4.4	0...70	0...3500	6 ^{*3}	G¾	P823-15
95	164	24	20	4.4	0...70	0...3500	6 ^{*3}	G1	P824-15

Special options, add the appropriate letter

cartridge installation instead of thread for DN 15 P825...

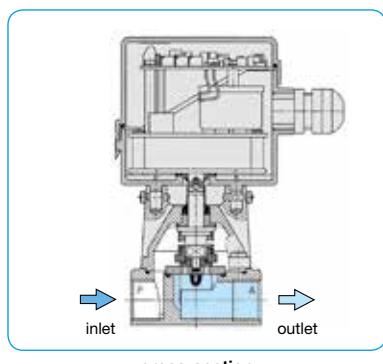


P822-15

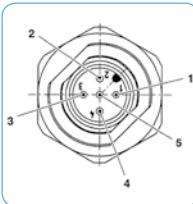
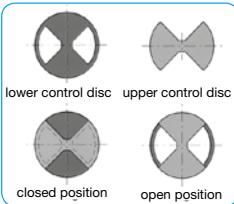
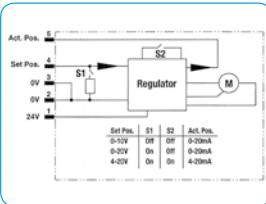
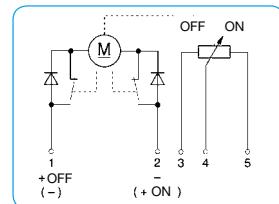
Description

Figure-No. Watt Δp max./Torque Switching time^{*2}

DC motor w/ potentiometer, 120 Ncm	①	1,5 W	6 bar/120 Ncm	10-14 s	P82.-15
DC motor w/ potentiometer, 200 Ncm	①	2,0 W	10 bar/200 Ncm	13 s	P82.-24
DC motor w/ controller	②	3,3 W	16 bar/120 Ncm f. G½	5 s	P82.-50
DC motor w/ controller	②	3,3 W	6 bar/120 Ncm f. G¾, G1	5 s	P82.-50
DC motor w/ controller	②	3,8 W	.. bar/ ... Ncm f. G¾, G1	.. s	P82.-51
AC motor 50 Hz	③	3,0 W	6 bar/120 Ncm	10 s	P82.-36
stepper motor	④	5,0 W	6 bar/120 Ncm	10 s	P82.-38
FKM elastomer					P82.-..V
EPDM elastomer					P82.-..E
free of grease and oil			specially cleaned, suitable for oxygen		P82.-..L
body nickel-plated					P82.-..X25

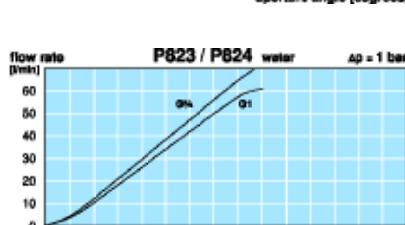
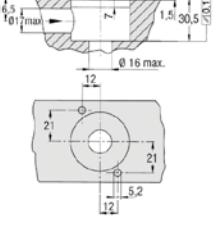
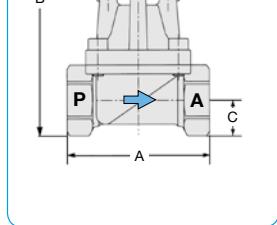
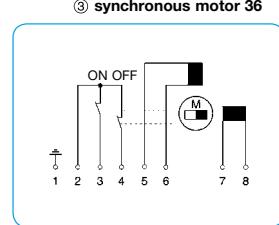
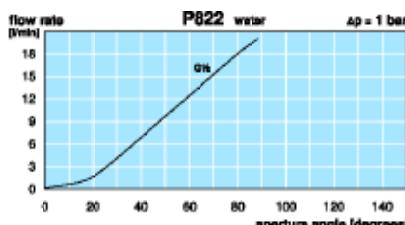
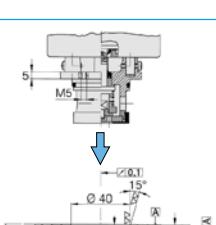
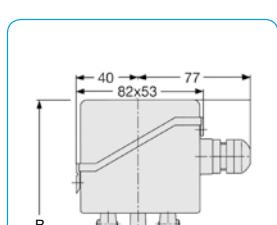
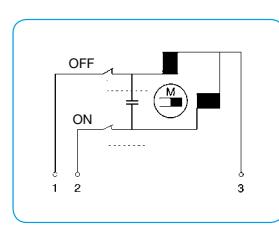


cross-section



PIN	Description
Pin 1	supply voltage 24 Volt
Pin 2	supply voltage 0 Volt
Pin 3	ground potential for set value input and feedback outlet
Pin 4	set value input 0 - 10 V / 0 (4) - 20 mA
Pin 5	feedback outlet 0 (4) - 20 mA

connection diagram



*1 at 6 bar supply pressure and $\Delta p = 1$ bar

*2 subject to supply pressure

*3 10 bar at motor for 200 Ncm

PDF CAD
www.aircom.net



Order example:
P822-15