IPVPK PNEUMATIC OPERATION IN-LINE ISOLATION VALVES

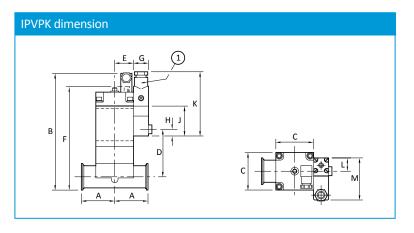


The Edwards range of in-line single acting cylinder, spring return pipeline valves are designed for high speed actuation from standard pneumatic lines, and are offered in sizes NW16, 25, 40 and 50. They are available with aluminium or stainless steel bodies with either O-ring (shaft seal, aluminium only) or bellows sealed.

The valves are designed for long life duties, with a MTTF of 5,000,000 cycles for both bellows and 'O' ring sealed versions providing long intervals between services.

Features and benefits

- Improved lifetime, mean-time-to-failure now 5,000,000 cycles.
- Electrical and visual indication of valve status.
- Fast acting 20 ms to close (PV16).
- Available in aluminium or stainless steel.
- Choice of bellows or 'O' ring shaft sealing with aluminium bodies.



	А	В	С	D	E	F	G	Н	J	K	L	М
PV16PK	40	132.9	38	49.4	22.9	115.4	20	10	40	88	19	59
PV25PK	50	161.9	50.8	68.2	25.8	144.3	20	10	40	88	19	59
PV40PK	65	192.2	76.2	86.9	38.2	174.6	20	10	40	88	19	59
PV50PK	70	216.9	92	101.6	38.8	199.3	20	10	40	88	19	59

1. Optional control valve

Technical Data

		IP۱	/РК			
Valve actuation type	Single acting, pneumatically opened, spring closed					
Pressure range	1 x 10 ⁻⁹ to 2100 mbar					
	8 x 10 ⁻¹⁰ to 1575 Torr					
Maximum pressure differential						
Opening	1000 mbar / 750 Torr					
Closing	2100 mbar / 1575 Torr					
Leak rate		< 1 x 10 ⁻⁹	mbar ls-1			
		< 8 x 10 ⁻	¹⁰ Torr Is ⁻¹			
Pneumatic connector		Rp ¼ (¼ i	nch BSP) *			
Recommended pneumatic		24 V, 1.5 A	a.c. or d.c.			
Operating pressure		2.8 to 4.2 bar	· / 41 to 61 ps	i		
Electrical indicator		Single mic	ro switch ‡			
Micro switch electrical rating		24 V, 1.5 A	a.c. or d.c.			
Max cycle frequency	900 h ⁻¹					
Bellows reliability, MTTF	5,000,000 cycles					
Ambient operating temperature	5-100 °C					
Maximum baking temperature	100 °C					
Construction materials						
ΙΡνρκα	HE30TF aluminium					
IPVPKS	AISI304 stainless steel					
Bellows	AISI316L stainless steel					
O-ring	Fluoroelastomer					
‡ Twin micro switch versions are a	vailable on re	equest.				
	IPV16PK	IPV25PK	IPV40PK	IPV50PK		
Molecular conductance (ls ⁻¹)	2	6	18	30		
Time to open (ms)*	60	15	50	50		
Time to close (ms)*	20	41	155	155		
Weight						
Aluminium (g/oz)	310/10.9	610/21.4	1500/52.5	-		
Stainless Steel (g/oz)	520/18.2	980/34.3	2300/80.5	4000/140		
* With ontional control valve fitted	1					

* With optional control valve fitted

Vacuum	Fittings
and	Valves

411.

IPVPK

Ordering information



Product description	Order no:
IPV16PKAO, O-ring sealed, aluminium	C41603000
IPV16PKA, bellows sealed, aluminium	C41601000
IPV16PKS, bellows sealed, stainless steel	C41602000
IPV25PKAO, O-ring sealed, aluminium	C41623000
IPV25PKA, bellows sealed, aluminium	C41621000
IPV25PKS, bellows sealed, stainless steel	C41622000
IPV40PKAO, O-ring sealed, aluminium	C41643000
IPV40PKA, bellows sealed, aluminium	C41641000
IPV40PKS, bellows sealed, stainless steel	C41642000
IPV50PKS, bellows sealed, stainless steel	C41662000

Spares Kit Valve Seals

Product description	Order no:
Spares Kit Valve Seals PVPK10/16	C41111800
Spares Kit Valve Seals PV25PK	C41311800
Spares Kit Valve Seals PV40PK	C41411800

O-Ring kit

Product description	Order no:
PV50MK O-Ring kit	C41501800

Valve body

Product description	Order no:
Valve body IPV16KA	C41201802
Valve body IPV16KS	C41602811
Valve body IPV25KA	C41621802
Valve body IPV25KS	C41622811
Valve body IPV40KA	C41641802
Valve body IPV40KS	C41642811

Top Cap Assembly

Product description	Order no:
Top Cap Assembly PV10/16P	C41111821
Top Cap Assy PV25P	C41311821
Top Cap Assembly PV40P	C41411821

Actuator

Product description	Order no:
Bellows Actuator Assy PV10P	C41111035
Bellows Actuator Assy PV25P	C41311035
Bellows Actuator Assy PV50P	C41515035
Bellows Actuator Assy PV40P	C41411035