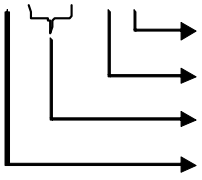
VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET No. 229794EG

Vatterfly valve, Series 20, DN 63-200 (ID 2½'' - 8'')

Ordering No: **20 . . . - . . 14**



A, E	Body material
P, C, J, U, T	Flange type
36, 38, 40, 44, 46	Diameter code
3, 4	Body shape

Description

Flanges and body shape	according to dimensional drawing
Actuator	pneumatic, double acting
Feedthrough	rotary feedthrough

Technical data

Leak rate:	
- To the outside	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
- Valve seat	$< 1 \cdot 10^{-9}$ mbar ls^{-1}
Pressure range	$1 \cdot 10^{-8}$ mbar to 2 bar, abs
Differential pressure on the plate	≤ 1.2 bar in opening direction ≤ 1.6 bar in closing direction
Differential pressure at opening	≤ 0.5 bar
Admissible temperature:	0 - 120°C
Heating and cooling rate:	≤ 40°C h^{-1}
Cycles until first service	100,000 - under clean vacuum conditions - at a temperature between 0 and 80°C
Life cycle	500,000

		A: Aluminum body	E: Stainless Steel body
Material:	- valve body	Al Mg Si 1	1.4301
	- actuator	Aluminum	Aluminum
	- valve plate	Al Mg Si 1	1.4301
Seal	- bonnet seal	VITON®	VITON®
	- plate seal	VITON®	VITON®
	- pneumatic seals	VITON®	VITON®

VAT Vakuumventile AG
CH-9469 Haag, Schweiz

PRODUCT DATA SHEET No. 229794EG

Vatterfly valve, Series 20, DN 63-200 (ID 2½'' - 8'')

Mounting position	any
Action at power failure	depending on installation of customer
Action at compressed air failure	no change
Compressed air pressure for pneumatics	4 - 7 bar / 60 - 100 psi
Compressed air connection	M 5 female (10/32 UNF suitable)

Diameter code	36	38	40	44	46
Diameter	63 mm 2½"	80 mm 3"	100 mm 4"	160 mm 6"	200 mm 8"
Volume of air cylinder	0.04 l 0.0014 ft^3	0.08 l 0.003 ft^3	0.08 l 0.003 ft^3	0.13 l 0.0045 ft^3	0.3 l 0.01 ft^3
Opening / Closing time	0.4 s	0.8 s	0.8 s	1.4 s	1.8 s
Molecular flow conductance	550 ls^{-1}	700 ls^{-1}	1400 ls^{-1}	4000 ls^{-1}	7500 ls^{-1}
Molecular flow conductance (extended body)	450 ls^{-1}	600 ls^{-1}	1050 ls^{-1}	2550 ls^{-1}	4700 ls^{-1}
Weight (standard Aluminum body) 203 . . - . A . .	2.3 kg 5.1 lbs	3.8 kg 8.4 lbs	4 kg 8.8 lbs	7.4 kg 16.3 lbs	16.1 kg 35.5 lbs
Weight (standard Stainless Steel body) 203 . . - . E . .	4.6 kg 10.1 lbs	7.5 kg 16.5 lbs	8 kg 17.6 lbs	15.6 kg 34.4 lbs	34.2 kg 75.4 lbs
Weight (extended Aluminum body) 204 . . - . A . .	2.5 kg 5.5 lbs	4.2 kg 9.3 lbs	4.7 kg 10.4 lbs	9.7 kg 21.4 lbs	21.3 kg 47 lbs
Weight (extended Stainless Steel body) 204 . . - . E . .	5.3 kg 11.7 lbs	8.5 kg 18.7 lbs	10.1 kg 22.3 lbs	22.3 kg 49.2 lbs	20.8 kg 45.9 lbs