



PVA

Turcon® Variseal® M2



HydraulicSeals24.com



PVA Turcon® Variseal® M2 is a single acting seal consisting of a U-shaped seal jacket and a V-shaped corrosion resistant spring.

Variseal® M2 has an asymmetric seal profile. The heavy profile of its dynamic lip with an optimised front angle offers good leakage control, reduced friction and long service life. At low and zero pressure, the metal spring provides the primary sealing force.

As the system pressure increases, the main sealing force is achieved by the system pressure and ensures a tight seal from zero to high pressure. The possibility of matching suitable materials for the seal and the spring allows use in a wide range of applications beyond the field of hydraulics, e.g. in the chemical, pharmaceutical and foodstuffs industry.

Operating conditions

Pressure

T40 ≤ 40 MPa
T05 ≤ 20 MPa
Z80 ≤ 40 MPa

Temperature

T40 / T05 -70°C to 260°C
Z80 -70°C to 80°C

Speed

T40 / T05 ≤ 15 m/s
Z80 ≤ 2 m/s

Materials

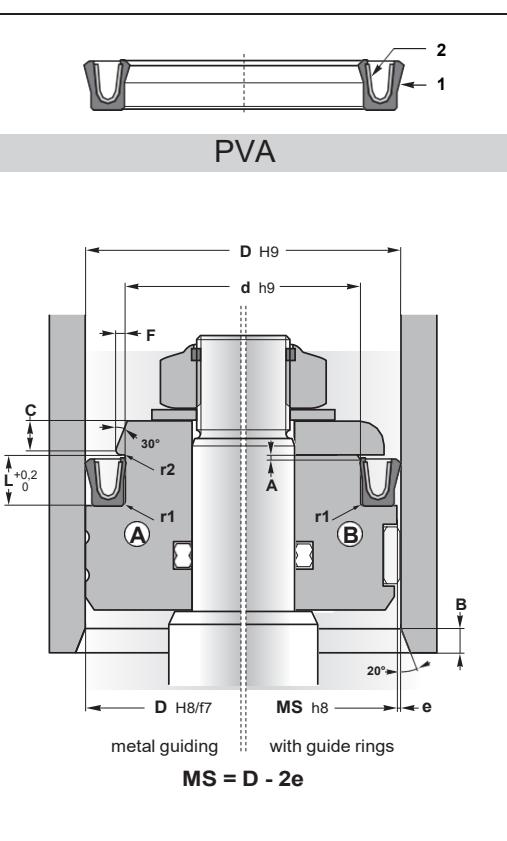
Seal ① T40, T05, Z80
Spring ② AISI 301 = S
On demand: Elgiloy®, Hastelloy®

Assembly

On one-piece pistons ④
On two-piece pistons ⑧

Advantage

Resistant to the most fluids
Low coefficient of friction
High abrasion resistance
No stick-slip: precision of operating control
Small section
Very high temperature range



Please contact us for applications approaching maximum values.

D	d	L	ISO 3320	Reference
10	7,1	2,4	•	PVA000100-T40S
12	9,1	2,4	•	PVA000120-T40S
14	9,5	3,6	•	PVA100140-T40S
16	11,5	3,6	•	PVA100160-T40S
20	15,5	3,6	•	PVA100200-T40S
25	18,8	4,8	•	PVA200250-T40S
32	25,8	4,8	•	PVA200320-T40S
35	28,8	4,8	•	PVA200350-T40S
40	33,8	4,8	•	PVA200400-T40S
45	38,8	4,8	•	PVA200450-T40S
50	40,6	7,1	•	PVA300500-T40S
60	50,6	7,1		PVA300600-T40S
63	53,6	7,1	•	PVA300630-T40S
70	60,6	7,1		PVA300700-T40S
80	70,6	7,1	•	PVA300800-T40S
100	90,6	7,1	•	PVA301000-T40S
125	112,8	9,5	•	PVA401250-T40S
160	147,8	9,5	•	PVA401600-T40S
200	187,8	9,5	•	PVA402000-T40S

Serie	D (mm)	d (mm)	L (mm)	F (mm)	r1 (mm)	r2 (mm)	A (mm)	B (mm)	C (mm)	e (mm)			
										2 MPa	10 MPa	20 MPa	40 MPa
PVA0	6→13,9	D - 2,9	2,4	0,4	0,25	0,15	0,3	1,2	0,7	≤ 0,2	≤ 0,1	≤ 0,08	≤ 0,05
PVA1	14→24,9	D - 4,5	3,6	0,6	0,4	0,15	0,4	1,5	1,1	≤ 0,25	≤ 0,15	≤ 0,1	≤ 0,07
PVA2	25→45,9	D - 6,2	4,8	0,7	0,4	0,2	0,4	2,5	1,3	≤ 0,35	≤ 0,2	≤ 0,15	≤ 0,08
PVA3	46→124,9	D - 9,4	7,1	0,8	0,4	0,25	0,6	4,5	1,4	≤ 0,5	≤ 0,25	≤ 0,2	≤ 0,1
PVA4	125→999,9	D - 12,2	9,5	0,9	0,5	0,25	0,6	6	1,6	≤ 0,6	≤ 0,3	≤ 0,25	≤ 0,12
PVA5	1000→2600	D - 19	15	1,5	0,5	0,4	0,9	11	2,6	≤ 0,9	≤ 0,5	≤ 0,4	≤ 0,2