

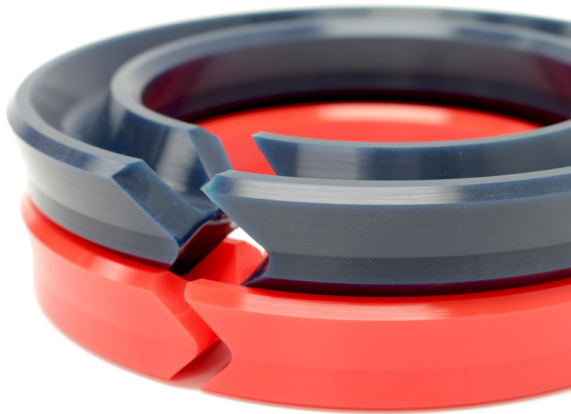
Features:

Proprietary system combines an elastomer seal ring with a robust anti-extrusion ring.

Maximizes the sealing performance

Increasing seal life.

The Elite set eliminates the need for seal adjustments, shimming resulting in machinery uptime.



MATERIAL

The 118 series “TwinPak” features high-grade polyurethane. Standard seal ring materials are MP03 machined H-PU, available up to 2100 mm in diameter. To suit a variety of applications the series is also available in NBR, H-NBR, EPDM, and high temperature-resistant FPM. The backup ring materials include POM, polyamide, PTFE with bronze filler and PEEK.

Material	Code
Polyurethane H-PU	MP03
Polyurethane TPU	MP85
Nitrile NBR	MN01

OPERATING PARAMETERS

Temperature	MP03	
	°C	°F
hydraulic oil	-20...+115	-5...+240
water oil emulsions (HFA)	+5...+55	+40...+130
water-glycol fluids (HFC)	-20...+55	-5...+130
polyolesters (HFD)	-	-
water	+5...+55	+40...+130
speed	0.5 m/s (1.6 ft/sec)	
pressure	≤ 400 bar (6,000 psi)	

Note: For other materials or fluids please contact our engineering department.

DESCRIPTION

The 118 series TwinPak is a high-performance multi-component seal assembly using design principles developed in our Elite product line. Operating performance is enhanced by having the components work together, preventing extrusion all while offering impressive seal performance. The seal is available in both endless and split configuration.

PRODUCT BENEFITS

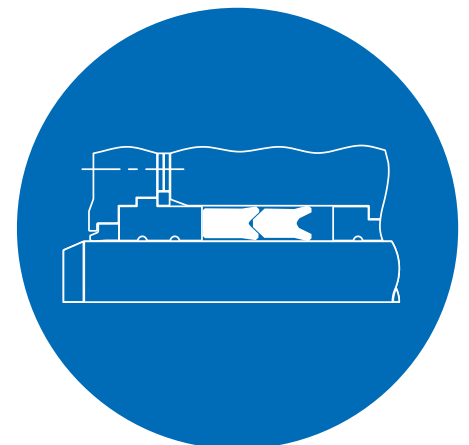
- Choice of split or endless design to suit your application
- Generous lead in chamfer built into the seal for ease of install
- Matched fit to your groove detail
- No shimming requirements offers a maintenance free sealing component
- Leak free for static and dynamic applications
- Manufactured in a variety of materials and sizes from 6 mm up to 2100 mm in diameter in standard or custom sizes.
- Can be used with increased internal running clearances without the risk of seal extrusion

APPLICATIONS

The 118 series TwinPak V-Packing is made up of two components designed for use in hydraulic applications.

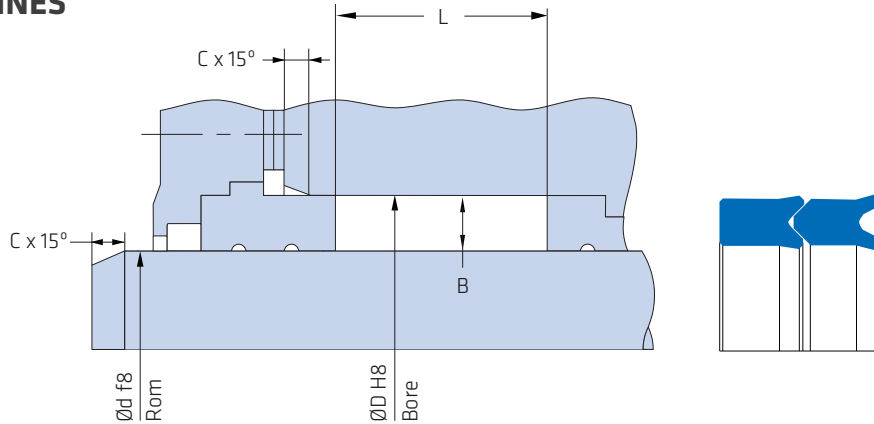
Typical applications include:

- Extrusion Presses
- Clamping Rams
- Baling Presses
- Injection Molding
- All OEM press manufacturers
- Press Board Presses
- Laminating Presses
- Plywood Presses
- Stamping Presses
- Unloader Cylinders
- Plunger Pumps
- Knockout Cylinder
- Ejector Cylinder
- Sliding Table Cylinder
- Table Lock Cylinder
- Piston Bore
- Isothermal Press



Above: Installation Drawing

DESIGN GUIDELINES



METRIC SERIES

	d	B	L
Series 1	8.00-50.00 mm	5.00-8.00	13.75-22.00
Series 2	55.00-150.00 mm	6.00-12.50	16.50-34.40
Series 3	155.00-200.00 mm	7.50-15.00	20.60-41.25
Series 4	210.00-400.00 mm	10.00-20.00	27.50-55.00
Series 5	410.00-650.00 mm	12.50-25.00	34.40-68.75
Series 6	670.00-900.00 mm	15.00-25.00	41.25-68.75
Series 7	915.00-2000.00 mm	19.05-31.75	52.40-87.30

INCH SERIES

	d	B	L
Series 1	0.312-2.000 in	0.196-0.312	0.540-0.900
Series 2	2.615-6.000 in	0.236-0.500	0.650-1.375
Series 3	6.063-7.875 in	0.295-0.590	0.810-1.620
Series 4	8.250-15.750 in	0.393-0.785	1.080-2.160
Series 5	16.125-25.500 in	0.500-1.000	1.375-2.750
Series 6	26.375-35.500 in	0.590-1.000	1.620-2.750
Series 7	36.000-80.000 in	0.750-1.250	2.060-3.440

Note: The extrusion gap “E” is suitable for pressure up to 400 bar (6,000 psi) and temperatures up to 80° C (176° F). For higher pressures or temperatures, please consult our engineering department for guidance. Custom sizes are available and we can match fit to serve almost any application. For a complete list of available sizes please refer to the System Seals online product catalogue at www.systemseals.com.

SURFACE FINISH

Surface roughness	Ra	Rt	RMS
Sliding surface	≤0.3 µm	≤3 µm	8 RMS
Surface of groove I.D.	≤1.8 µm	≤10 µm	64 RMS
Sides of groove	≤3 µm	≤16 µm	125 RMS