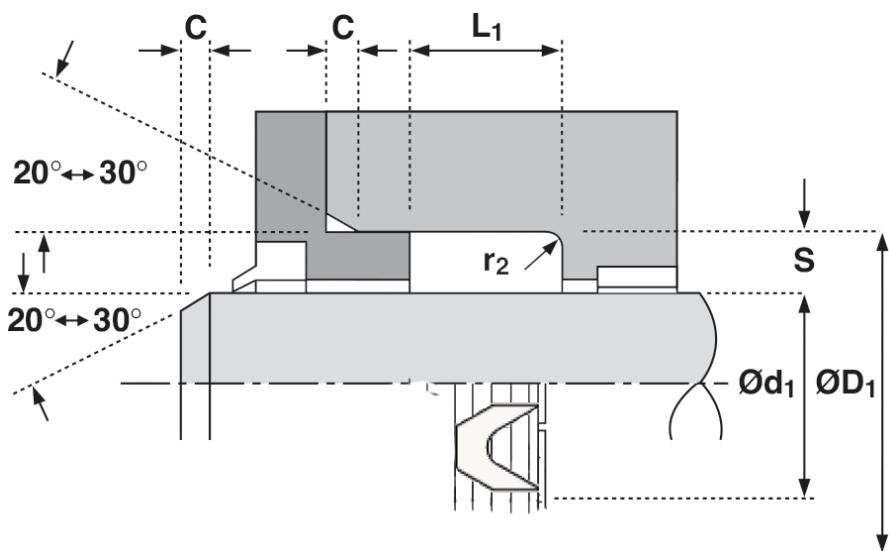


# VP30



## Technical Details

	Metric	Inch
Operating conditions		
Maximum speed	0.5 m/sec	1.5 ft/sec
Temperature range	-30°C + 100°C	-22°F + 212°F
Maximum pressure	400 Bar	6000 p.s.i

## Maximum extrusion gap

Pressure bar	100	175	250	400
Maximum gap mm	0.45	0.4	0.3	0.2
Pressure p.s.i	1500	2250	3500	6000
Maximum gap in	0.018	0.015	0.010	0.007

## Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic sealing surface Rod Ød <sub>1</sub>	0.1 - 0.4	4 max	4 - 16	5 - 18
Static sealing face Rod ØD <sub>1</sub>	1.6 max	10 max	63 max	70 max
Dynamic sealing surface Piston Ød <sub>1</sub>	0.1 - 0.4	4 max	4 - 16	5 - 18
Static sealing face Piston ØD <sub>1</sub>	1.6 max	10 max	63 max	70 max
Static housing faces L <sub>1</sub>	3.2 max	16 max	125 max	140 max

## Chamfers & Radii

Groove section S mm	5.0	7.5	10.0	12.5	15.0
Min chamfer C mm	3.0	5.0	6.5	7.0	7.5
Max fillet rad r <sub>1</sub> mm	0.5	0.8	0.8	0.8	0.8
Groove section S in	0.187	0.250	0.312	0.375	0.500
Min chamfer C in	0.093	0.125	0.156	0.187	0.250
Max fillet rad r <sub>1</sub> in	0.020	0.031	0.031	0.031	0.031

## Tolerances

	Ød <sub>1</sub>	ØD <sub>1</sub>	L <sub>1</sub> mm	L <sub>1</sub> in
Rod	f9	Js11	+0.75 - 0.0	+0.030 - 0
Piston	js11	H9	+0.75 - 0.0	+0.030 - 0

## DESIGN

VP30 is normally used in multiples of vee rings with a male and female adaptor. They are stacked and must be lubricated with operating fluid prior to assembly.

The male adaptor fits into the veer ring on the pressure side and when pre-loaded, exerts a hinging action on the vee packer, forcing the sealing lips apart and ensuring a low pressure seal.