



POLIFAN® CURVE flap discs

The unique disc for work on fillet welds

- Precise and optimum grinding out of fillet welds
- Outstanding service life and form stability
- High stock removal rates through unparalleled fast, aggressive grinding

POLIFAN® CURVE flap discs

Champion in work on fillet welds



Are you interested in the impressive advantages for complex and demanding work on fillet welds? The **POLIFAN® CURVE** flap disc, which is patented in many countries around the world, has been specially developed for work on fillet welds. It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius. The unique design makes grinding easier for you in many different respects. If the abrasive material has worn down on the radius, the POLIFAN® CURVE's many flaps mean it can still be used as a conventional flap disc.

Applications:

Work on fillet welds, surface grinding, weld dressing, chamfering, deburring

Advantages:

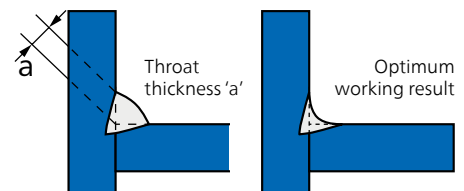
- High stock removal rate ensures fast work progress and therefore significant wage cost savings.
- Excellent service life when working on fillet welds.
- Precise and optimum grinding of the fillet weld geometry.
- You can even grind difficult-to-reach areas thanks to the unique design.
- Versatile. Suitable for work on fillet welds as well as for other applications.

Recommendations for use:

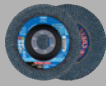

- **Type M:**
For fillet weld radii > 5 mm or throat thickness ≤ 6 mm with 90° joint, width at the radius: 11 mm or 14 mm with diameter 150 mm.
- **Type L:**
For fillet weld radii > 8 mm or throat thickness > 6 mm with 90° joint, width at the radius: 14 mm or 16 mm with diameter 150/180 mm.



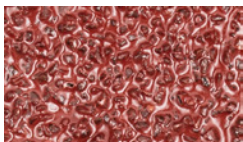
Find out more about the advantages of using POLIFAN® CURVE products.



Quick product selection guide

Application	Product line	Steel (STEEL)	Stainless steel (INOX)	Aluminium (ALU)
■ Work on fillet welds	Special Line SGP ★★★★★	 Z SGP CURVE STEELOX	 CO SGP CURVE STEELOX	 A SGP CURVE ALU

Abrasive grain



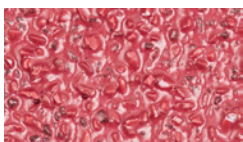
Aluminum oxide A

Numerous types of aluminum oxide are used as abrasives. These may be present in molten or sintered form. The hardness and toughness can be influenced by special manufacturing procedures or additives. Standard types of aluminum oxide and a "sharp-edged" grain shape are predominantly used for coated abrasives.



Zirconia, Z

Zirconia alumina is a fused mixture of aluminum oxide and zirconium oxide. In comparison to aluminum oxides, zirconia alumina exhibits lower hardness but greater toughness. The high proportion of zirconium oxide results in an extremely powerful self-sharpening effect and contributes to outstanding stock removal rates with cool grinding and a long service life.



Ceramic CO

For sintered aluminum oxides, a differentiation is made between sintered bauxite aluminum oxides and sol-gel aluminum oxides. Sol-gel aluminum oxides are predominantly used for coated abrasives in the form of abrasive ceramic grain. This state-of-the-art abrasive is used for numerous applications due to its high toughness and good self-sharpening qualities.




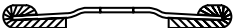


Z SGP CURVE STEELOX ★★★★★

High-performance flap disc for maximum stock removal on steel and stainless steel (INOX). The POLIFAN® CURVE flap disc has been specifically developed for work on fillet welds. Also excellent for work on weld seams, as well as for chamfering and deburring.



Special features:

- It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.
- High productivity due to high stock removal rate.
- PFERD's POLIFAN® CURVE is patented in many countries across the globe.

D [Inch]	Fillet weld radius > [Inch]	Grit size	Width	H [Inch]	Max. RPM	Abrasive		Item no.	EDP no.
Radial type PFR (CURVE) 									
4-1/2	3/16	40	M (3/16")	7/8	13,300	Z	10	67689032	67192
							2	69902670	66991
	5/16	40	L (5/16")	7/8	13,300	Z	10	67689042	67339
5	3/16	40	M (3/16")	7/8	12,200	Z	10	67689052	67196
							2	69398197	66990
	5/16	40	L (5/16")	7/8	12,200	Z	10	67689062	67343
6	3/16	40	M (3/16")	7/8	10,200	Z	10	67689072	67200
	5/16	40	L (5/16")	7/8	10,200	Z	10	67689082	67347
7	5/16	40	L (5/16")	7/8	8,500	Z	10	67689095	67351
Radial type PFR (CURVE) – with X-LOCK mounting  X-LOCK									
4-1/2	3/16	40	M (3/16")	7/8	13,300	Z	10	67689033	67796
	5/16	40	L (5/16")	7/8	13,300	Z	10	67689043	67797
5	3/16	40	M (3/16")	7/8	12,200	Z	10	67689053	67798
	5/16	40	L (5/16")	7/8	12,200	Z	10	67689063	67799
Radial design PFR (CURVE) – threaded arbor hole 									
4-1/2	3/16	40	M (3/16")	5/8-11	13,300	Z	10	69300745	67212
	5/16	40	L (5/16")	5/8-11	13,300	Z	10	69300748	67359
5	3/16	40	M (3/16")	5/8-11	12,200	Z	10	69300688	67216
	5/16	40	L (5/16")	5/8-11	12,200	Z	10	69300689	67363
6	3/16	40	M (3/16")	5/8-11	10,200	Z	10	69901701	67220
	5/16	40	L (5/16")	5/8-11	10,200	Z	10	69901702	67367
7	5/16	40	L (5/16")	5/8-11	8,500	Z	10	69901703	67371

POLIFAN® CURVE flap discs

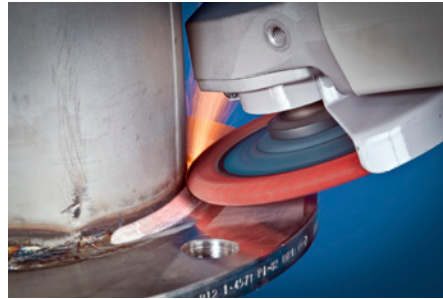
Special Line SGP ★★★★★



Here you will find further details and useful information about the wide range of flap discs.




CO SGP CURVE STEELOX ★★★★★

High-performance flap disc for achieving a superior surface finish on steel and stainless steel (INOX). The POLIFAN® CURVE flap disc has been specially developed for work on fillet welds. Also designed for work on weld seams, as well as for chamfering and deburring.



Special features:

- It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.
- Ceramic oxide grain CO with active-grinding special coating with cooling effect (CO-COOL) – no heat discoloration, even under adverse thermal conditions.
- PFERD's POLIFAN® CURVE is patented in many countries across the globe.

D [Inch]	Fillet weld radius > [Inch]	Grit size	Width	H [Inch]	Max. RPM	Abrasive		Item no.	EDP no.
Radial type PFR (CURVE) 									
4-1/2	3/16	60	M (3/16")	7/8	13,300	CO-COOL	10	67689036	67234
	5/16	60	L (5/16")	7/8	13,300	CO-COOL	10	67689046	67381
5	3/16	60	M (3/16")	7/8	12,200	CO-COOL	10	67689056	67197
	5/16	60	L (5/16")	7/8	12,200	CO-COOL	10	67689066	67344
Radial design PFR (CURVE) – threaded arbor hole 									
4-1/2	5/16	60	L (5/16")	5/8-11	13,300	CO-COOL	10	69300749	67405
	3/16	60	M (3/16")	5/8-11	13,300	CO-COOL	10	69300746	67258
5	5/16	60	L (5/16")	5/8-11	12,200	CO-COOL	10	69300750	67364
	3/16	60	M (3/16")	5/8-11	12,200	CO-COOL	10	69300747	67217




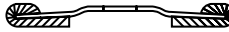

A SGP CURVE ALU ★★★★★

Special flap disc for work on fillet welds on aluminum. The POLIFAN® CURVE flap disc has been specially developed for work on fillet welds. Also designed for work on weld seams, as well as for chamfering and deburring.

Special features:

- It is the only flap disc in the world that has flaps on both the grinding side and on the rear side, as well as on the radius.
- The active grinding additives prevent loading and facilitate cool grinding.

- PFERD's POLIFAN® CURVE is patented in many countries across the globe.

D [Inch]	Fillet weld radius > [Inch]	Grit size	Width	H [Inch]	Max. RPM	Abrasive		Item no.	EDP no.
Radial type PFR (CURVE) 									
4-1/2	5/16	40	L (5/16")	7/8	13,300	A-COOL	10	67689048	67646
5	5/16	40	L (5/16")	7/8	12,200	A-COOL	10	67689068	67651
Radial design PFR (CURVE) – threaded arbor hole 									
4-1/2	5/16	40	L (5/16")	5/8-11	13,300	A-COOL	10	69300965	67671
5	5/16	40	L (5/16")	5/8-11	12,200	A-COOL	10	69300966	67676

Subject to technical modifications.

12/2024