



POLIFAN CURVE flap discs

The unique disc for work on fillet welds

- Precise and optimum grinding out of fillet welds
- Outstanding tool 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:

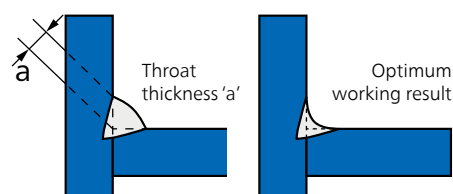
- High stock removal rate ensures fast work progress and therefore significant wage cost savings.
- Excellent tool life when working on fillet welds.
- Precise and optimum grinding of the fillet weld geometry.
- You can even grind difficult-to-reach areas thanks to the unique design.
- Versatile. Suitable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



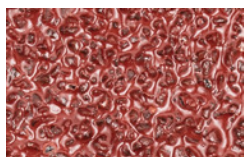
Find out more about the advantages of using POLIFAN CURVE products.



The quick way to find the perfect tool

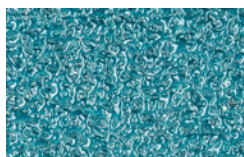
Application	Product line	Steel (STEEL)	Stainless steel (INOX)	Aluminium (ALU)
■ Work on fillet welds	Special Line SGP ★★★★★	 Z SGP CURVE STEELOX	 CO SGP CURVE STEELOX	 A SGP CURVE ALU

Abrasive grain



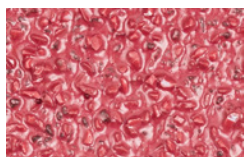
Aluminium oxide A

Numerous types of aluminium 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 aluminium oxide and a "sharp-edged" grain shape are predominantly used for coated abrasives.



Zirconia alumina Z

Zirconia alumina is a fused mixture of aluminium oxide and zirconium oxide. In comparison to aluminium 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 tool life.



Ceramic oxide grain

For sintered aluminium oxides, a differentiation is made between sintered bauxite aluminium oxides and sol-gel aluminium oxides. Sol-gel aluminium 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 thanks 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 specially developed for work on fillet welds. Also suitable 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 the grinding side, on the rear and on the radius.
- Outstanding tool life when working on fillet welds and high stock removal rate, ensuring fast working and lower production costs.
- PFERD's POLIFAN CURVE is patented in many countries across the globe.

D [mm]	Fillet weld radius > [mm]	Grit size	Width	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Radial design PFR									
115	5	40	M (11 mm)	22.23	13,300	Z	10	67689032	PFR 115-M Z 40 SGP CURVE STEELOX
	8	40	L (14 mm)	22.23	13,300	Z	10	67689042	PFR 115-L Z 40 SGP CURVE STEELOX
125	5	40	M (11 mm)	22.23	12,200	Z	10	67689052	PFR 125-M Z 40 SGP CURVE STEELOX
	8	40	L (14 mm)	22.23	12,200	Z	10	67689062	PFR 125-L Z 40 SGP CURVE STEELOX
150	5	40	M (14 mm)	22.23	10,200	Z	10	67689072	PFR 150-M Z 40 SGP CURVE STEELOX
	8	40	L (16 mm)	22.23	10,200	Z	10	67689082	PFR 150-L Z 40 SGP CURVE STEELOX
180	8	40	L (16 mm)	22.23	8,500	Z	10	67689095	PFR 180-L Z 40 SGP CURVE STEELOX
Radial design PFR with X-LOCK mounting X-LOCK									
125	8	40	L (14 mm)	22.23	12,200	Z	10	67689063	PFR 125-L Z 40 SGP CURVE STEELOX/X-LOCK
	5	40	M (11 mm)	22.23	12,200	Z	10	67689053	PFR 125-M Z 40 SGP CURVE STEELOX/X-LOCK



CO SGP CURVE STEELOX ★★★★★

High-performance flap disc for achieving fine finishes on steel and stainless steel (INOX). The POLIFAN CURVE flap disc has been specially developed for work on fillet welds. Also suitable 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 the grinding side, on the rear and on the radius.
- Ceramic oxide grain CO with active-grinding special coating with cooling effect (CO-COOL) – no heat discolouration, even under adverse thermal conditions.
- PFERD's POLIFAN CURVE is patented in many countries across the globe.

D [mm]	Fillet weld radius > [mm]	Grit size	Width	H [mm]	Max. RPM	Abrasive		Item no.	Designation
Radial design PFR									
115	5	60	M (11 mm)	22.23	13,300	CO-COOL	10	67689036	PFR 115-M CO 60 SGP CURVE STEELOX
	8	60	L (14 mm)	22.23	13,300	CO-COOL	10	67689046	PFR 115-L CO 60 SGP CURVE STEELOX
125	5	60	M (11 mm)	22.23	12,200	CO-COOL	10	67689056	PFR 125-M CO 60 SGP CURVE STEELOX
	8	60	L (14 mm)	22.23	12,200	CO-COOL	10	67689066	PFR 125-L CO 60 SGP CURVE STEELOX

POLIFAN CURVE flap discs

Special Line SGP ★★★★★




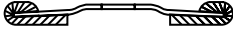
A SGP CURVE ALU ★★★★★

Special flap disc for work on fillet welds on aluminium. The POLIFAN CURVE flap disc has been specially developed for work on fillet welds. Also suitable 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 the grinding side, on the rear and on the radius.
- The active grinding additives prevent clogging and facilitate cool grinding.

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

D [mm]	Fillet weld radius > [mm]	Grit size	Width	H [mm]	Max, RPM	Abrasive		Item no.	Designation
Radial design PFR 									
115	8	40	L (14 mm)	22.23	13,300	A-COOL	10	67689048	PFR 115-L A 40 SGP CURVE ALU
125	8	40	L (14 mm)	22.23	12,200	A-COOL	10	67689068	PFR 125-L A 40 SGP CURVE ALU



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