



MULTOTEC

Tailings Dam Cyclones - GV Cyclones



Your Specialist in Process Equipment



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Multotec GV cyclones are designed specifically for tailings dam applications. They are engineered to ensure the optimum volumetric split between overflow and underflow is achieved to match the required rate of rise of your tailings dam – cost-effectively, reliably and with simple maintenance.

The optimum tailings dam cyclone:

- Multotec scrolled evolute design
- 220 mm ID, with the options of a 10° or 20° cone angle
- Lightweight construction (just 45 kg) means ease of handling
- Different spigot and vortex finder sizes provides optimum flexibility
- The spigot can be easily changed effortlessly via a unique spigot holder design
- Reduced cone wall thickness reduces weight and cost
- Composite construction, incl. a lightweight steel shell and polyurethane and rubber components
- Variety of installation options, from simple wall mounting to skid mounted installations

Flexibility to match your process requirements

Designed to match varying application and commodity requirements by interchanging the cone angle, spigot and vortex finder makes the Multotec GV cyclone a fit-for-purpose product. Altering the combination of the cone angle, spigot and vortex finder allows you to meet the specific operational parameters of your material characteristics and tailings dam requirements. As each cyclone is designed for individual applications, feed parameters are matched to cyclone capacity, ultimately optimising the cyclones lifespan. Multotec can also build completely bespoke solutions should your application require it.

CLASSIFICATION CYCLONES (FULL RANGE)		SLURRY FLOWRATE (m³/hr)		SOLIDS IN FEED (tph) @ 15 % v/v FEED SOLIDS CONCENTRATION		ESTIMATED CUT POINT (D50C) µm (@ 15 % v/v FEED SOLIDS CONCENTRATION)	
Cyclone diameter (mm)	Operating pressure (Kpa)	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
40	250	2	5	1	2	9	13
75	200	9	14	4	6	14	16
100	150	12	20	5	8	14	35
165	100	24	44	10	18	17	50
250	100	49	93	20	38	22	61
350	100	103	197	42	80	24	70
420	100	170	302	69	123	30	88
500	100	175	421	71	170	30	101
600	100	319	595	129	241	35	109
750	100	491	785	199	318	45	128
900	100	707	1 227	286	497	47	126
1 050	100	1 073	1 662	434	673	51	137
1 200	100	1 071	2 148	434	870	48	146
1 400	100	1 552	2 840	629	1 150	53	153



Overflow

- Can be supplied with or without overflow elbow (flanged end)
- Overflow elbow can be HDPE, mild steel rubberlined or mild steel ceramic lined

Inlet Head

- 3 mm Steel shell
- 15 mm Bonded rubber
- Feed pipe can be attached to inlet via:
 - Bolts or
 - Victaulic coupling

Cone

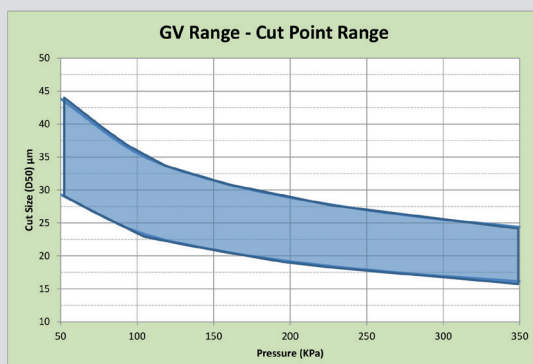
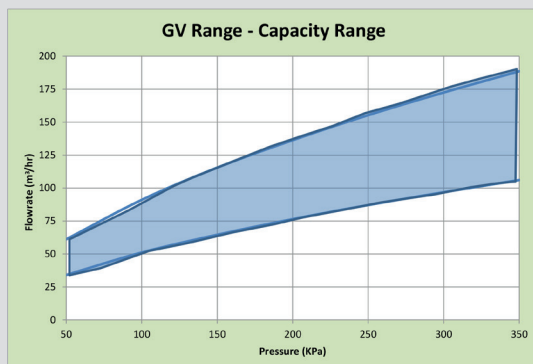
- 3 mm Steel shell
- 15 mm Bonded rubber

Spigot holder and spigot

- 4-Start thread
- Screw on spigot coupling for quick and easy spigot change out
- Different spigot diameters available
- Different material of construction available - polyurethane, alumina, silicon carbide, rubber

Cyclone Stand (Optional)

- Simple and light weight construction
- Design can be tailor made to customer specification



Management System
ISO 9001:2015
www.tuv.com
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Multotec products are subject to continuous development and Multotec reserves the right to make changes to the specifications and design of its products without prior notification.

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