



MINING PRODUCTS CATALOG



Introduction

DRTS provides a complete range of services to accommodate the growing innovations within the leach mining industry by offering clients extremely clog resistant drip irrigation systems to maximize extraction rates by increasing operating life cycle of irrigation system components – for any type of solution or mineral being extracted. From detailed project planning and irrigation system layout design to supply of custom piping, DRTS has the necessary experience and leach mining components to provide a complete solution for any leach mining operation.

With over 35 years of experience in drip irrigation and through collaboration with experienced mining professionals we have leveraged our expertise and pivoted our knowledge into the field of leach mining. We at DRTS can help plan and execute your leach mining project from start to finish. Make use of our extensive knowledge and state of the art equipment to increase your extraction rates with each leach cycle.

The DRTS Minoro™ dripper is at the heart of our leach mining systems and was specially designed to resist clogging in the harshest of conditions. Clogged drippers result in a decrease of solution application uniformity. This in turn directly translates to reduced mineral extraction yields of every leach cycle and reduced profitability over the life of the mining irrigation system. The Minoro™ dripper utilizes DRTS' patented Omniflow™ technology to ensure a consistently uniform flow that will maintain the integrity and performance of your leach mining drip system cycle after cycle.

Our product catalog offers a complete breakdown of the leach irrigation components and accessories needed to run a fully operational leach mining project mine. Feel free to contact us for more information on any of the below products by referencing the DRTS part number.

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Dripline

and Dripline Fittings

Minoro™ Dripline

Minoro Dripline is the ultimate solution for your leach mining drip system. The dripline incorporates the patented Omniflow labyrinth of the Minoro dripper to guarantee unbeatable clog resistance in any leach mining environment. Dripline is continuously extruded from high grade LLDPE resin, with Minoro drippers bonded to the inside of the PE hose. The combination of the raised inlet filter screens and perforated drip outlet holes drilled 180 degrees apart does not require specific emitter orientation during installation. Manufacturing coefficient of variation (CV) less than 3% - lowest in the industry, when coupled with precise hydraulics will guarantee an even solution application rate across your entire leach pad surface for optimal solution distribution.

- Mining grade dripper featuring patented Omniflow™ Labyrinth, highest resistance to clogging in the industry, perfect solution for sub-surface installation (i.e. dripline burial during winter months)
- Dual solution outlets positioned 180 degrees apart
- Available flow rates: 1 / 2 / 4 L/Hr
- Spacing available 20-100 cm
- Diameter: 16mm
- Wall-Thickness 0.9-1.25mm
- Coil Length: 400 meters, other lengths upon request



Minoro™ Dripline

	Nominal Flow (L/Hr)	Diameter (mm)	Wall Thickness (mm)	Part Number
				XX is for the desired dripper spacing
	1 LPH	16mm	0.9mm	M16-36-XX-1
	1 LPH	16mm	1.0mm	M16-40-XX-1
	1 LPH	16mm	1.1mm	M16-44-XX-1
	1 LPH	16mm	1.2mm	M16-48-XX-1
	2 LPH	16mm	0.9mm	M16-36-XX-2
	2 LPH	16mm	1.0mm	M16-40-XX-2
	2 LPH	16mm	1.1mm	M16-44-XX-2
	2 LPH	16mm	1.2mm	M16-48-XX-2
	4 LPH	16mm	0.9mm	M16-36-XX-4
	4 LPH	16mm	1.0mm	M16-40-XX-4
	4 LPH	16mm	1.1mm	M16-44-XX-4
	4 LPH	16mm	1.2mm	M16-48-XX-4

Storm-PC Dripline

Storm PC Dripline is the perfect solution for side-slope applications, by utilizing the automatic pressure compensating technology, the Storm dripper is able to put out a nominal flow rate on inclined surfaces despite pressure line increase with elevation decrease or on extra-long lateral spans.



- Self-regulation ensures the same nominal flow rate over a range of inlet pressures
- Elevated dual filter screens draw solution from faster moving flow
- Dual solution outlets positioned 180 degrees apart
- Available flow rates: 1.6 / 2 / 4 L/Hr
- Spacing available 20-100 cm
- Diameter: 16 / 18 / 20mm
- Wall-Thickness 0.9-1.2mm
- Coil Length: 400 meters, other lengths upon request



Storm-PC Dripline

	Nominal Flow (L/Hr)	Diameter (mm)	Wall Thickness (mm)	Part Number XX is for the desired dripper spacing
	1.6 LPH	16mm	0.9mm	S16-36-XX-1.6
	1.6 LPH	16mm	1.0mm	S16-4-XX-1.6
	1.6 LPH	16mm	1.1mm	S16-44-XX-1.6
	1.6 LPH	16mm	1.2mm	S16-48-XX-1.6
	2 LPH	16mm	0.9mm	S16-36-XX-2
	2 LPH	16mm	1.0mm	S16-4-XX-2
	2 LPH	16mm	1.1mm	S16-44-XX-2
	2 LPH	16mm	1.2mm	S16-48-XX-2
	4 LPH	16mm	0.9mm	S16-36-XX-4
	4 LPH	16mm	1.0mm	S16-4-XX-4
	4 LPH	16mm	1.1mm	S16-44-XX-4
	4 LPH	16mm	1.2mm	S16-48-XX-4

Polyethylene Pipe (w/out Drip Emitters)

	Nominal Flow (mm)	Diameter (mm)	Part Number XX is for the desired coil length
	16mm	0.9mm	P16-36-XX
	16mm	1.0mm	P16-40-XX
	16mm	1.1mm	P16-44-XX
	16mm	1.2mm	P16-48-XX
	20mm	0.9mm	P20-36-XX
	20mm	1.0mm	P20-40-XX
	20mm	1.1mm	P20-44-XX
	20mm	1.2mm	P20-48-XX

Dripline Fittings









DRTS offers a wide assortment of dripline off-take and connection fittings in almost any configuration required for your project. Made from high quality PP resin for long term water-tight sealing, our fittings are able to resist UV degradation and highly acidic & alkaline solutions.

*Other fittings not featured in catalog are available upon request, please contact our sales team.


- High quality polypropylene dripline fittings
- Large assortment: Off-takes, Couplings, Tees, Mini-Valves, and many more
- Available in 16mm, 20mm, ½ inch, ¾ inch thread sizes
- Working pressure 5 bar



Off Take Fittings

	Description	Size (mm)	Part Number
	Sealing Rubber Insert Off-Take Connector x Barb	16mm x 16mm	DR-OTF-B-16-16
	Sealing Rubber Insert Off-Take Connector x Male Thread	20mm x 3/4"	DR-OTF-M-16-3/4
	Sealing Rubber Insert Off-Take Connector x Lock Type	20mm x 16mm	DR-OTF-L-20-16
	Male Threaded Off-Take Connector x Lock Type	1/2" x 16mm	DR-OTF-L-1/2-16
	Male Threaded Off-Take Connector x Lock Type	3/4" x 16mm	DR-OTF-L-3/4-16
	Lay-Flat Off-Take Connector x Female Thread	13mm x 1/2"	DR-OTF-F-13-1/2
	Lay-Flat Off-Take Connector x Female Thread	13mm x 3/4"	DR-OTF-F-13-3/4
	Lay-Flat Off-Take Connector x Male Thread	13mm x 3/4"	DR-OTF-M-13-3/4
	Lay-Flat Off-Take Bolt x Male Thread	13mm x 1/2"	DR-OTF-M-13-1/2
	Lay-Flat Off-Take Female Threaded Nut	1/2" x 1/2"	DR-OTF-F-1/2-1/2
	Lay-Flat Off-Take Female Threaded Nut	1/2" x 3/4"	DR-OTF-F-1/2-3/4



Sealing Rubber Gaskets

	Description	Size (mm)	Part Number
	Grooved Sealing Rubber Gasket for Insert Off-Take Connector	16mm	DR-SRG-G-16
	Grooved Sealing Rubber Gasket for Insert Off-Take Connector	20mm	DR-SRG-G-20
	Straight Sealing Rubber Gasket for Insert Off-Take Connector	16mm	DR-SRG-S-16
	Straight Sealing Rubber Gasket for Insert Off-Take Connector	20mm	DR-SRG-S-20
	Conical Sealing Rubber Gasket for Insert Off-Take Connector	16mm	DR-SRG-C-16

Coupling Fittings

	Description	Size (mm)	Part Number
	Barbed Coupling	16mm x 16mm	DR-CF-BC-16
	Barbed Coupling	20mm x 20mm	DR-CF-BC-20
	Barbed Tee Coupling	16mm x 16mm x 16mm	DR-CF-BT-16
	Barbed Tee Coupling	20mm x 20mm x 20mm	DR-CF-BT-20
	Lock Type Coupling	16mm x 16mm	DR-CF-LT-16
	Lock Type Coupling	20mm x 20mm	DR-CF-LT-20

End-Closure Fittings

	Description	Size (mm)	Part Number
	Barbed End Plug	16mm	DR-ECF-B-16
	Barbed End Plug	20mm	DR-ECF-B-20
	Figure 8 End Plug	16mm	DR-ECF-F-16
	Figure 8 End Plug	20mm	DR-ECF-F-20

Mini Valve Fittings

	Description	Size (mm)	Part Number
	Mini Valve - Sealing Rubber Insert Off-Take x Barb	16mm x 16mm	DR-MVT-SR-16
	Mini Valve - Sealing Rubber Insert Off-Take x Barb	20mm x 20mm	DR-MVT-SR-20
	Mini Valve - Barbed Coupling	16mm x 16mm	DR-MVT-BC-16
	Mini Valve - Barbed Coupling	20mm x 20mm	DR-MVT-BC-20
	Mini Valve - Male Thread x Lock Type	1/2" x 16mm	DR-MVT-MT-1/2-16
	Mini Valve - Male Thread x Lock Type	3/4" x 16mm	DR-MVT-MT-3/4-16
	Mini Valve - Male Thread x Lock Type	3/4" x 20mm	DR-MVT-MT-3/4-20
	Mini Valve - Lock Type Coupling	16mm x 16mm	DR-MVT-LC-16
	Mini Valve - Lock Type Coupling	20mm x 20mm	DR-MVT-LC-120

Threaded Coupling

	Description	Size (Inch)	Part Number
	Male Threaded Coupling	1/2" x 1/2"	DR-MTC-1/2
	Male Threaded Coupling	3/4" x 3/4"	DR-MTC-3/4


Pipe Clip

	Description	Size (mm)	Part Number
	Pipe Drop Stopper	16mm	DR-PRC-16

Threaded Reducer

	Description	Size (Inch)	Part Number
	PVC Male Threaded Reducer	1/2" x 3/4"	DR-MTR-1/2-3/4

Riser

	Description	Size	Part Number
	PE 75cm Risers, Cone x 3/4" Male Thread (w/o Tee)	-	DR-R-75-3/4

A close-up photograph of a large blue pipe being laid in a trench. The pipe is positioned horizontally, with its surface showing some texture and small white specks. The trench walls are composed of dark, moist soil. A semi-transparent tan box is overlaid on the upper right portion of the image, containing the title text.

Lay Flat and Lay Flat Fittings


Lay Flat Flexible Hose

Lay Flat flexible PVC hose is the perfect alternative to HDPE or rigid PVC piping, ideal for solution transport where quick installation and retrieval is required. Standard coil length of 100 meters allows for quick assembly with use of Lay Flat connection fittings, and is capable of withstanding rough abrasion with ground surface.

- Continuously extruded 3-ply polyester yarn within internal and external walls of flexible PVC
- Special additives to resist UV degradation
- Anti-delamination, anti-expansion, anti-elongation, anti-torsion systems
- Perfect solution for mining irrigation and water transport in on/off conditions, hose relocation / transport requiring minimal labor due to low weight and ability to recoil
- Available Diameters: 50-200mm (2-8 inch)
- Available Working Pressures: 2-10 bar
- Working Temperature: -20C to +70C
- Available with factory pre-installed 16mm (1/2 inch) connection off-takes upon request




Blue Series Lay Flat Hose


	Size Inch/mm	Working Pressure (bar)	Coil Length (m)	Part Number
	2" / 53	6	100	DR-LF-B-2-6
	2.5" / 65	6	100	DR-LF-B-2.5-6
	3" / 78	4	100	DR-LF-B-3-4
	4" / 105	4	100	DR-LF-B-4-4
	5" / 128	3	100	DR-LF-B-5-3
	6" / 156.5	3	100	DR-LF-B-6-3

** Blue Series Hose available with factory pre-installed 1/2" Female Thread connection outlets, spacing 50-100cm

Green Series Lay Flat Hose

	Size Inch/mm	Working Pressure (bar)	Coil Length (m)	Part Number
	3" / 78	6	50-100	DR-LF-G-3-6
	3" / 78	10	50-100	DR-LF-G-3-10
	3.5" / 90	10	50-100	DR-LF-G-3.5-10
	4" / 105	6	50-100	DR-LF-G-4-6
	5" / 128	6	50-100	DR-LF-G-5-6
	6" / 156.5	6	50-100	DR-LF-G-6-6
	8" / 207	5	50-100	DR-LF-G-8-5

HD Series Lay Flat Hose

	Size Inch/mm	Working Pressure (bar)	Coil Length (m)	Part Number
	4" / 105	9	100	DR-LF-HD-4-9
	6" / 156.5	7	100	DR-LF-HD-6-7

Lay Flat Fittings

We offer a wide assortment of Lay Flat flexible hose connection fittings. Our standard fittings and custom-made fittings from PVC are suited for any type of pipe network configuration.

Standard fittings made from high quality PP resin for long term water-tight sealing, are able to resist UV degradation and highly acidic & alkaline solutions.


Custom-made fittings are made from PVC with factory installed standard fittings to provide complete assemblies for your project. Our Lay Flat fittings do not require on-site assembly thus saving your team hours of labor.

*Other fittings not featured in catalog are available upon request, please contact our sales team.




- High quality polypropylene Lay Flat hose fittings
- Large assortment: Couplings, Male Threaded Connectors, Reducers, End-Caps, Elbows, Tees, Flanged Connections
- Available Diameters: 50-200mm (2-8 inch)
- Available Working Pressures: 6 / 10 bar
- Connection joints fixated by 316SS clamps

Lay-Flat Straight Coupling: Barb x Barb

	Size (inch)	Part Number
	2" Barb	DR-CF-BB-2-6
	3" Barb	DR-CF-BB-3-6
	4" Barb	DR-CF-BB-4-6
	5" Barb	DR-CF-BB-5-6
	6" Barb	DR-CF-BB-6-6


Lay-Flat Straight Coupling: Male Thread x Barb

	Size (inch)	Part Number
	2" Male Thread x 2" Barb	DR-CF-TB-2-2-6
	2" Male Thread x 3" Barb	DR-CF-TB-2-3-6
	2.5" Male Thread x 3" Barb	DR-CF-TB-2.5-3-6
	3" Male Thread x 3" Barb	DR-CF-TB-3-3-6
	3" Male Thread x 4" Barb	DR-CF-TB-3-4-6
	4" Male Thread x 4" Barb	DR-CF-TB-4-4-6
	4" Male Thread x 5" Barb	DR-CF-TB-4-5-6
	5" Male Thread x 5" Barb	DR-CF-TB-5-5-6
	5" Male Thread x 6" Barb	DR-CF-TB-5-6-6
	6" Male Thread x 6" Barb	DR-CF-TB-6-6-6

Lay-Flat End Cap

	Size (inch)	Part Number
	2" Barb	DR-EC-CB-2-6
	2.5" Barb	DR-EC-CB-2.5-6
	3" Barb	DR-EC-CB-3-6
	4" Barb	DR-EC-CB-4-6
	5" Barb	DR-EC-CB-5-6
	6" Barb	DR-EC-CB-6-6


Flanged x Barb Coupling

	Size (mm/inch)	Part Number
	DN80 x 3" Barb	DR-FBC-80-3
	DN90 x 3" Barb	DR-FBC-90-3
	DN90 x 4" Barb	DR-FBC-90-4
	DN100 x 4" Barb	DR-FBC-100-4
	DN100 x 5" Barb	DR-FBC-100-5
	DN150 x 6" Barb	DR-FBC-150-6

Barbed Elbow 90°

	Size (Inch)	Part Number
	3" Barb x 3" Barb	DR-EBB-3-3
	3" Barb x 4" Barb	DR-EBB-3-4
	4" Barb x 4" Barb	DR-EBB-4-4
	4" Barb x 5" Barb	DR-EBB-4-5
	5" Barb x 5" Barb	DR-EBB-5-5
	5" Barb x 6" Barb	DR-EBB-5-6
	6" Barb x 6" Barb	DR-EBB-6-6


Flange x Barbed Elbow 90°

	Size (DNmm/Inch)	Part Number
	DN80 3" Flange x 3" Barb	DR-FBE-80-3
	DN100 4" Flange x 4" Barb	DR-FBE-100-4
	DN125 5" Flange x 5" Barb	DR-FBE-125-5
	DN150 6" Flange x 6" Barb	DR-FBE-150-6


Barbed Tee

	Size (inch)	Part Number
	2" Barb x 3" Barb x 2" Barb	DR-BT-2-3-2
	2" Barb x 4" Barb x 2" Barb	DR-BT-2-4-2
	3" Barb x 4" Barb x 3" Barb	DR-BT-3-4-3
	3" Barb x 5" Barb x 3" Barb	DR-BT-3-5-3
	3" Barb x 6" Barb x 3" Barb	DR-BT-3-6-3
	4" Barb x 5" Barb x 4" Barb	DR-BT-4-5-4
	4" Barb x 6" Barb x 4" Barb	DR-BT-4-6-4
	5" Barb x 6" Barb x 5" Barb	DR-BT-5-6-5


Flanged Tee

	Size (mm)	Part Number
	DN80 Flange x DN100 Flange x DN80 Flange	DR-FT-80-100-80
	DN80 Flange x DN150 Flange x DN80 Flange DR-	DR-FT-80-150-80
	DN80 Flange x DN200 Flange x DN80 Flange	DR-FT-80-200-80
	DN100 Flange x DN150 Flange x DN100 Flange	DR-FT-100-150-100
	DN100 Flange x DN200 Flange x DN100 Flange	DR-FT-100-200-100
	DN100 Flange x DN250 Flange x DN100 Flange	DR-FT-100-250-100
	DN150 Flange x DN200 Flange x DN150 Flange	DR-FT-150-200-150
	DN150 Flange x DN250 Flange x DN150 Flange	DR-FT-150-250-150
	DN150 Flange x DN300 Flange x DN150 Flange	DR-FT-150-300-150


Barb X Flange X Barb Tee

	Size (inch/mm)	Part Number
	3" Barb x DN90 Flange x 3" Barb	DR-T-BFB-3-90-3
	3" Barb x DN100 Flange x 3" Barb	DR-T-BFB-3-100-3
	4" Barb x DN100 Flange x 4" Barb	DR-T-BFB-4-100-4
	5" Barb x DN100 Flange x 5" Barb	DR-T-BFB-5-100-5
	6" Barb x DN90 Flange x 6" Barb	DR-T-BFB-6-90-6
	6" Barb x DN100 Flange x 6" Barb	DR-T-BFB-6-100-6
	6" Barb x DN150 Flange x 6" Barb	DR-T-BFB-6-150-6
	6" Barb x DN200 Flange x 6" Barb	DR-T-BFB-6-200-6
	6" Barb x 3" M/F Thread x 6" Barb	DR-T-BFB-6-3-6
	6" Barb x 4" M/F Thread x 6" Barb	DR-T-BFB-6-4-6

Flanged Reducers

	Size (mm)	Part Number
	DN80 x DN65	DR-FR-80-65
	DN90 x DN65	DR-FR-90-65
	DN90 x DN80	DR-FR-90-80
	DN100 x DN80	DR-FR-100-80
	DN100 x DN90	DR-FR-100-90
	DN150 x DN90	DR-FR-150-90
	DN150 x DN100	DR-FR-150-100

Lay Flat Stainless Steel Clamps

	Size (inch)	Part Number
	2"	DR-SC-SS-2-6
	2.5"	DR-SC-SS-2.5-6
	3"	DR-SC-SS-3-6
	4"	DR-SC-SS-4-6
	5"	DR-SC-SS-5-6
	6"	DR-SC-SS-6-6

Lay Flat Punch

	Size (mm)	Part Number
	14mm	DR-T-PH-14

Off-take Insertion Tool

	Part Number
	DR-T-BP

Valves

Manual and Auto





Butterfly Valves

Process grade bi-directional bubble tight shut-off, tongue and groove design, field replaceable resilient seats for a wide array of applications and media.

- Size: DN50 – DN600
- Working Pressure: 10 / 16 / 25 bar
- Body: Epoxy or Polyester Coated Ductile Iron / Cast Iron / 304SS / 316SS
- Disk: Rilsan (Nylon 11) coated Ductile Iron / 316SS / PTFE coated 316SS
- Seat: NBR / Silicon / EPDM / Viton
- Stem: 420SS / 316SS
- Connection: Wafer / Lug (drilled and tapped PN10, PN16, ANSI150)
- Operation: Lever / Gear
- Also Available in PVC Models



Manual Butterfly Valves

	Type	Material	Size (mm)	Working Pressure	Part Number
	Wafer Type Butterfly Valve	Body: Ductile Iron GGG40, Disk: Nylon 11 Coated Ductile Iron GGG40, Seat: EPDM, Stem: AISI420SS	DN50-500	PN 16	DR-BW-DI-XX-X
		Body: AISI304 SS, Disk: Nylon 11 Coated Ductile Iron GGG40, Seat: EPDM, Stem: AISI420SS	DN50-500	PN 16	DR-BW-SS5-XX-X
		Body: AISI316 SS, Disk: AISI316 SS, Seat: Viton, Stem: AISI316SS	DN50-300	PN 16	DR-BW-SS3-XX-X
	Lug Type Butterfly Valve	Body: Ductile Iron GGG40, Disk: Nylon 11 Coated Ductile Iron GGG40, Seat: EPDM, Stem: AISI420SS	DN50-500	PN 16	DR-BL-DI-XX-X
		Body: AISI304 SS, Disk: Nylon 11 Coated Ductile Iron GGG40, Seat: EPDM, Stem: AISI420SS	DN50-500	PN 16	DR-BL-SS5-XX-X
		Body: AISI316 SS, Disk: AISI316 SS, Seat: Viton, Stem: AISI316SS	DN50-300	PN 16	DR-BL-SS3-XX-X
*XX indicates size, X indicates seal type = 1-EPDM, 2-EPDM-PTFE, 3-FPM					

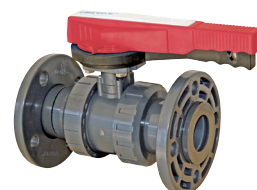
Manual Butterfly Valves

Type		Material	Size (mm)	Working Pressure	Part Number
	Wafer Type Butterfly (PVC)	Lever Operated PVC (Lever Operated)	DN80	PN 10	DR-WTB-LO-80
		PVC (Lever Operated)	DN100	PN 10	DR-WTB-LO-100
		PVC (Lever Operated)	DN150	PN 10	DR-WTB-LO-150
		PVC (Lever Operated)	DN200	PN 10	DR-WTB-LO-200
		PVC (Lever Operated)	DN250	PN 10	DR-WTB-LO-250
	Gear Operated Wafer Type Butterfly (PVC) Valve	PVC (Gear Operated)	DN150	PN 10	DR-WTB-GO-150
		PVC (Gear Operated)	DN200	PN 10	DR-WTB-GO-200
		PVC (Gear Operated)	DN250	PN 10	DR-WTB-GO-250
PVC (Gear Operated)		DN300	PN 10	DR-WTB-GO-300	

PVC Ball Valves

Made from high grade PVC resin, perfect solution for use with very corrosive media such as acids. Available in numerous configurations for a wide array of applications.

- Size: DN50 – DN110
- Working Pressure: 16 bar
- Body: Molded U-PVC (available in True Union or Single Union)
- Ball: Molded U-PVC
- O-Ring: EPDM / PTFE coated EPDM / PTFE coated FPM (Viton)
- Connection: Socket / BSP Thread / Flanged / Combination of Socket, Thread and Flange
- Operation: On-Off Lever / Position Regulated Lever



Manual PVC Ball Valves

Type		Material	Size (inch/mm)	Working Pressure	Part Number
	Inlet Threaded / Outlet Threaded	Body: PVC, Seat: EPDM	2"	PN 16	DR-B-IT-OT-2
		Body: PVC, Seat: EPDM	2.5"	PN 16	DR-B-IT-OT-2.5
		Body: PVC, Seat: EPDM	3"	PN 16	DR-B-IT-TB-3
		Body: PVC, Seat: EPDM	4"	PN 16	DR-B-IT-OT-4
		Body: PVC, Seat: FPM & PTFE (Viton)	2"	PN 16	DR-B-IT-OT-V-2
		Body: PVC, Seat: FPM & PTFE (Viton)	2.5"	PN 16	DR-B-IT-OT-V-2.5
		Body: PVC, Seat: FPM & PTFE (Viton)	3"	PN 16	DR-B-IT-OT-V-3
		Body: PVC, Seat: FPM & PTFE (Viton)	4"	PN 16	DR-B-IT-OT-V-4
	Inlet Flanged / Outlet Threaded	Body: PVC, Seat: EPDM	DN65 / 2.5"	PN 16	DR-B-IF-OT-65
		Body: PVC, Seat: EPDM	DN80 / 3"	PN 16	DR-B-IF-OT-80
		Body: PVC, Seat: EPDM	DN100 / 4"	PN 16	DR-B-IF-OT-100
		Body: PVC, Seat: FPM & PTFE (Viton)	DN65 / 2.5"	PN 16	DR-B-IF-OT-V-65
		Body: PVC, Seat: FPM & PTFE (Viton)	DN80 / 3"	PN 16	DR-B-IF-OT-V-80
		Body: PVC, Seat: FPM & PTFE (Viton)	DN100 / 4"	PN 16	DR-B-IF-OT-V-100
	Inlet Flanged / Outlet Flanged	Body: PVC, Seat: EPDM	DN65	PN 16	DR-B-IF-OF-65
		Body: PVC, Seat: EPDM	DN80	PN 16	DR-B-IF-OF-80
		Body: PVC, Seat: EPDM	DN100	PN 16	DR-B-IF-OF-100
		Body: PVC, Seat: FPM & PTFE (Viton)	DN65	PN 16	DR-B-IF-OF-V-65
		Body: PVC, Seat: FPM & PTFE (Viton)	DN80	PN 16	DR-B-IF-OF-V-80
		Body: PVC, Seat: FPM & PTFE (Viton)	DN100	PN 16	DR-B-IF-OF-V-100

Automatic Valves


Hydraulic Pressure Reducing Control Valve:

This category of valves automatically limits downstream pressure to user's pre-set value, regardless of upstream pressure value or fluctuations. Pressure regulations is actuated by upstream line pressure, with only two moving parts – stainless steel spring and a regulating diaphragm. This ensures easy and smooth operation from zero flow to fully open flow, non-impact actuation reducing potential for water-hammer and cavitation within the valve flow passageway.


- Size: DN50 – DN300
- Body: Epoxy coated Ductile Iron or PVC/Polyamide (special coatings available)
- Actuation: 3-way Stainless Steel or Plastic Pilot
- Working Pressure: 10 / 16 / 25 bar
- Diaphragm: NBR
- Connection: BSP Thread / Flanged
- Operation: On / Off / Automatic Actuation



Hydraulic Pressure Reducing Control Valve

	Material	Diaphragm	Size (inch/mm)	Connection Type	Working Pressure	Part Number
	Polyamide	Natural Rubber	2"	BSP Female Threaded	PN 10	DR-APRV-PL-NR-2-T10
	Polyamide	Natural Rubber	3"	BSP Female Threaded	PN 10	DR-APRV-PL-NR-3-T10
	PVC	Natural Rubber	3"	BSP Female Threaded	PN 10	DR-APRV-PV-NR-3-T10
	PVC	Natural Rubber	4"	BSP Female Threaded	PN 10	DR-APRV-PV-NR-4-T10
	PVC	Natural Rubber	DN80	Flanged	PN 10	DR-APRV-PV-NR-3-F10
	PVC	Natural Rubber	DN100	Flanged	PN 10	DR-APRV-PV-NR-4-F10
	PVC	Viton	DN80	Flanged	PN 10	DR-APRV-PV-VT-3-F10
	PVC	Viton	DN100	Flanged	PN 10	DR-APRV-PV-VT-4-F10

Hydraulic Pressure Reducing Control Valve

	Material	Diaphragm	Size (mm)	Connection Type	Working Pressure	Part Number
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN150	Flanged	PN 16	DR-APRV-DP-NR-6-F16
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN200	Flanged	PN 16	DR-APRV-DP-NR-8-F16
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN250	Flanged	PN 16	DR-APRV-DP-NR-10-F16
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN300	Flanged	PN 16	DR-APRV-DP-NR-12-F16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN150	Flanged	PN 16	DR-APRV-DP-VT-6-F16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN200	Flanged	PN 16	DR-APRV-DP-VT-8-F-16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN250	Flanged	PN 16	DR-APRV-DP-VT-10-F-16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN300	Flanged	PN 16	DR-APRV-DP-VT-12-F-16

Hydraulic Quick Pressure Release Control Valve



Our hydraulic quick pressure release control valve acts as a safety back-up in cases of routine upstream pressure surges, such as in pumps being put into/out of service. This valve quickly releases the pressure surge to atmosphere thus protecting all system downstream components. When upstream line pressure increases beyond set point the valve quickly opens, when line pressure decreases back to normal level the valve closes slowly until fully sealed without causing surge.

Only two moving parts – stainless steel spring and regulating diaphragm. This ensures easy and smooth operation from zero flow to fully open flow, non-impact actuation reducing potential for water-hammer and cavitation within the valve flow passageway.

- Size: DN50 – DN300
- Body: Epoxy coated Ductile Iron or PVC/Polyamide (special coatings available)
- Actuation: 3-way Stainless Steel or Plastic Pilot
- Working pressure: 10 / 16 / 25 bar
- Diaphragm: NBR
- Connection: BSP Thread / Flanged
- Operation: On / Off / Automatic Modulation



Hydraulic Quick Pressure Release Control Valve

	Material	Diaphragm	Size (inch/mm)	Connection Type	Working Pressure	Part Number
	Polyamide	Natural Rubber	2"	BSP Female Threaded	PN 10	DR-QPRV-PL-NR-2-T10
	Polyamide	Natural Rubber	3"	BSP Female Threaded	PN 10	DR-QPRV-PL-NR-3-T10
	PVC	Natural Rubber	3"	BSP Female Threaded	PN 10	DR-QPRV-PV-NR-3-T10
	PVC	Natural Rubber	4"	BSP Female Threaded	PN 10	DR-QPRV-PV-NR-4-T10
	PVC	Natural Rubber	DN80	Flanged	PN 10	DR-QPRV-PV-NR-3-F10
	PVC	Natural Rubber	DN100	Flanged	PN 10	DR-QPRV-PV-NR-4-F10
	PVC	Viton	DN80	Flanged	PN 10	DR-QPRV-PV-VT-3-F10
	PVC	Viton	DN100	Flanged	PN 10	DR-QPRV-PV-VT-4-F10
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN150	Flanged	PN 16	DR-QPRV-DP-NR-6-F16
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN200	Flanged	PN 16	DR-QPRV-DP-NR-8-F16
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN250	Flanged	PN 16	DR-QPRV-DP-NR-10-F16
	GGG40 Ductile Iron - Polyester Coated	Natural Rubber	DN300	Flanged	PN 16	DR-QPRV-DP-NR-12-F16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN150	Flanged	PN 16	DR-QPRV-DP-VT-6-F16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN200	Flanged	PN 16	DR-QPRV-DP-VT-8-F-16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN250	Flanged	PN 16	DR-QPRV-DP-VT-10-F-16
	GGG40 - Ductile Iron - "special" Coated	Viton	DN300	Flanged	PN 16	DR-QPRV-DP-VT-12-F-16

Solenoid Controlled Flush Valve


This valve is equipped with a solenoid actuator and a battery powered control unit, allowing the user to pre-set a date/time and duration on a daily/weekly schedule for the valve to open and close in order to flush out the sub-header feed pipes and driplines, thus extending the life of your irrigation system.

Only two moving parts – stainless steel spring and diaphragm. This ensures easy and smooth operation from zero flow to fully open flow, non-impact actuation reducing potential for water-hammer and cavitation within the valve flow passageway.




- Size: DN25 – DN80
- Body: PVC/Polyamide
- Actuation: Solenoid & Bacarra “Window Plus” battery powered controller
- Working pressure: 6 / 10 bar
- Diaphragm: NBR
- Connection: BSP Thread / Flanged

Solenoid Controlled Flush Valve

	Material	Diaphragm	Size (inch)	Connection Type	Working Pressure	Part Number
	Polyamide	Natural Rubber	2"	Female Threaded	PN 10	DR-SCFV-PL-NR-2-T10
	Polyamide	Natural Rubber	3"	Female Threaded	PN 10	DR-SCSV-PL-NR-3-T10
	PVC	Viton	2"	Female Threaded	PN 10	DR-SCSV-PL-VT-2-T10
	PVC	Viton	3"	Female Threaded	PN 10	DR-SCSV-PL-VT-3-T10
	PVC	Viton	4"	Female Threaded	PN 10	DR-SCSV-PL-VT-4-T10

Automatic Air Release Valve

	Material	Diaphragm	Size (inch)	Connection Type	Working Pressure	Part Number
	Polypropylene	EPDM	1/2"	Female Threaded	PN 10	DR-AAV-PP-EP-1/2-T10
	Polypropylene	EPDM	3/4"	Female Threaded	PN 10	DR-AAV-PP-EP-3/4-T10
	Polypropylene	EPDM	1"	Female Threaded	PN 10	DR-AAV-PP-EP-1-T10
	Polypropylene	EPDM	2"	Female Threaded	PN 10	DR-AAV-PP-EP-2-T10

Filters and Measuring Devices



Filters

DRTS's semi-automatic cleaning screen filters are equipped with manual suction nozzles for cleaning the screen. They are comprised of mining grade components for continual long-lasting operation. This is an economical solution that does not require a power supply, installation can be at the pump, on the leach pads, or anywhere in between.


The cleaning mechanism assembly is manually operated by rotation of an external handle which causes the suction nozzles to spin and cover the whole screen surface. Due to pressure differential the suction nozzles suck out and flush out all debris accumulated on the screen surface. This ensures a complete and effective cleaning of the screen during an uninterrupted filtration cycle.



- Economical mining grade semi-automatic filter systems
- Featuring suction nozzle screen filter cleaning mechanism, simple design and easy to use
- Highly effective at removing suspended solids out of solution.
- Stainless steel fine filter screen, filtration grades up to 200 micron,
- 80 to 250 m3/hr standard nominal flow rate, filtration assemblies can be supplied for higher flow applications
- Available in DN100 (4 inch), DN150 (6 inch), and DN200 (8 inch).
- Connection: Flange, Victaulic, Threaded
- Stainless steel components to resist acidic solutions
- Automatic filtration solutions available upon request

Please contact our sales team for full line of filtration options and custom-made solutions.

Filters

	Size (mm/inch)	Working Pressure	Max. Flow Rate	Part Number XX denotes working pressure PN10 or PN16
	DN100 / 4"	PN 10 / 16	80 M3/Hr	DR-SAF-4-XX
	DN150 / 6"	PN 10 / 16	150 M3/Hr	DR-SAF-6-XX
	DN200 / 8"	PN 10 / 16	250 M3/Hr	DR-SAF-8-XX

Flow Meters (Measuring Devices)

Ultrasonic and Woltman style watermeters for accurate logging of your leach pad flows. Ultrasonic – no moving parts, high measurement accuracy, reverse flow detection


- Size: DN50 - DN200 (2 - 8 inch) diameters
- Accuracy: +/-2% at min/max flow rate, MID certified
- Warranty: 3 year warranty with 10 year lithium battery
- Connection: PN16 Flange
- Body: Epoxy coated Ductile Iron body
- LCD digital display readout, available RF remote reading
- IP68 protection class, can be mounted in any orientation
- Max working temperature +50C
- Max working pressure 16 bar




Woltman Style – turbine blade actuated, high measurement accuracy

- Size: DN50 - DN200 (2 - 8 inch) diameters
- Accuracy: +/-2 to 5% at min/max flow rate, MID certified
- Warranty: 3 year warranty
- Connection: PN16 Flange
- Body: Epoxy coated Ductile Iron body
- Mechanical readout counter
- IP68 protection class, can be mounted in any orientation
- Max working temperature +50C
- Max working pressure 16 bar

Measuring Devices

	Type	Size (mm)	Working Pressure	Part Number
	Ultrasonic	DN50	PN 16	DR-MD-U-50
		DN65	PN 16	DR-MD-U-63
		DN80	PN 16	DR-MD-U-80
		DN100	PN 16	DR-MD-U-100
		DN125	PN 16	DR-MD-U-125
		DN150	PN 16	DR-MD-U-150
		DN200	PN 16	DR-MD-U-200


Measuring Devices

	Type	Size (mm)	Working Pressure	Part Number
	Woltman	DN50	PN 16	DR-MD-W-50
		DN65	PN 16	DR-MD-W-63
		DN80	PN 16	DR-MD-W-80
		DN100	PN 16	DR-MD-W-100
		DN125	PN 16	DR-MD-W-125
		DN150	PN 16	DR-MD-W-150
		DN200	PN 16	DR-MD-W-200

Pressure Gauges

- Stainless Steel construction
- Vacuum or glycerin filled display
- Open or Diaphragm sealed 1/4 inch Male Thread
- 4 to 25 bar gauge dial

Water Meter Pressure Gauge

	Size (inch)	Working Pressure	Specification	Part Number
	1/4" Male Threaded	5-16 bar	Stainless steel threaded body, Glycerin filled, Diaphragm or Open assembly	DR-PG-M-5-16



Minoro™ Dripline



Project Design



Accessories



Custom Leach Mining Solutions
Minoro™ Dripline, Project Design & Accessories

www.drts.com

info@drts-corp.com