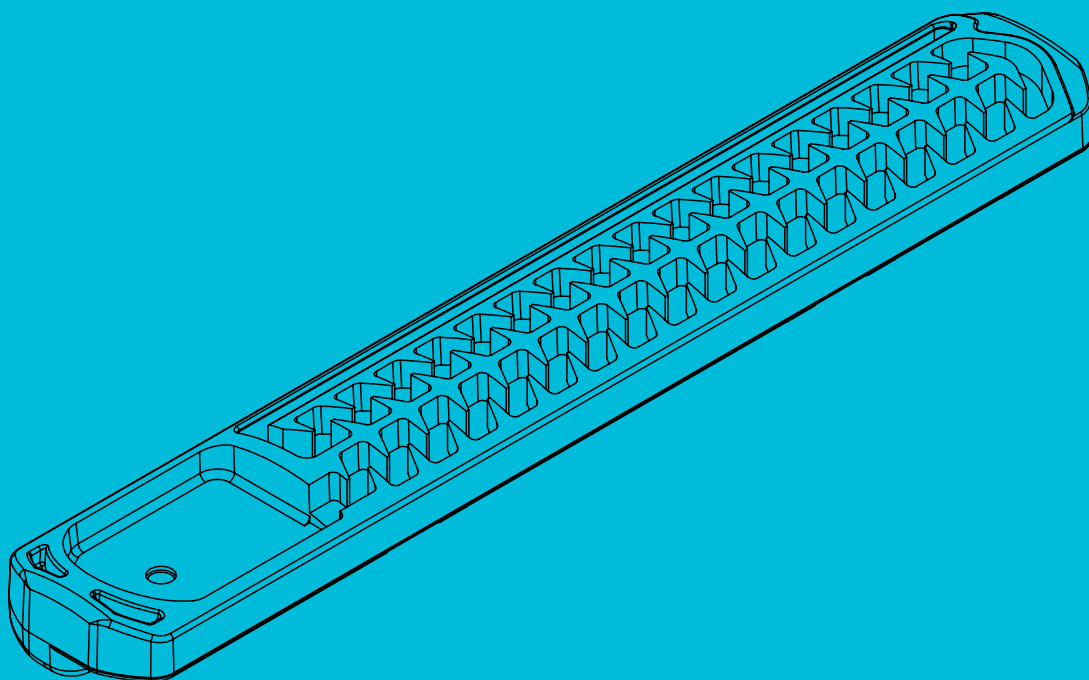


MINING

PRODUCT CATALOG



2018.V1

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INTRODUCTION

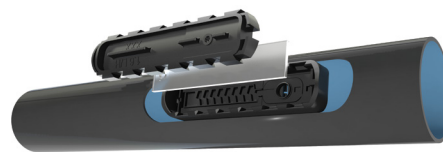
Netafim mining dedicated products offers the industry broadest range of quality products, responsive customer service, global resources and a team of experts to support your mining operations.

- Total system solutions from Leach lines, micro-sprinklers, fittings, filters, valves and air vents to technical expertise.
- System Solutions including cost-savings initiatives, first class logistics services and application designs and consultation.
- Quality Commitment – Netafim is ISO 9001:2000 Certified - recognized today throughout the industry for our rigid quality-control measures. Every reel of material undergoes a battery of tests and over 30 quality checks before leaving the factory.

LEACH LINE U™ Ω

HEAP LEACHING FOR GOLD & SILVER MINES

16012 - 20012



UniRam™ RC is a pressure compensated dripper for superior uniform leaching even on sloping terrain in severe solution quality - UniRam™ guarantee uniform flow of solution from the top of the pad to the bottom of the slope.

Option for anti-migration mechanism stops water from running down the tube, preventing bottom pooling.

Made from UV and acid resistant polyethylene tubing; the highest quality resins available.

Available diameters: 16, 20 mm OD (outside diameter).

Available flow rates: 1.0, 1.6, 2.3 and 3.5 l/h.

FEATURES & BENEFITS

- Pressure compensation over a wide pressure range (up to 4.0 bar) produces uniform dripper flow rates from each dripper outlet
- Continuously self-flushing: Flushes debris, throughout operation, ensuring uninterrupted dripper operation
- Self-flushing system with wide filtration area improves resistance to clogging thus making UniRam™ highly resistant
- TurboNet™ labyrinth assures wide water passages with large deep and wide cross section to improve clog resistance
- Water is drawn in to the dripper from the center of the stream, assuring continuous filter flushing
- Longer runs and steep topographies are irrigated with high uniformity
- Seamless, one-piece construction prevents damage to drippers during installation and retrieval
- Low coefficient of variability (CV)
- Optional - Anti-migration technology prevents water runoff along pipe, by integrating a clip that can be pre assembled over the dripperlines during production giving the benefit of labor saving

APPLICATIONS

- On-surface or subsurface applications of heap leached mines
- Pad slopes
- When high uniformity and longer runs are required
- For long-term, re-use

ANTI-MIGRATION DRIPPERLINE RING (OPTIONAL)

Pre-installed ring

- Prevents solution migration on uneven surfaces and slopes
- Economical - saves labor
- Pre-installed on the dripperline during production

DRIPPERS TECHNICAL DATA

FLOW RATE (L/H)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS			FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X
		WIDTH (MM)	DEPTH (MM)	LENGTH (MM)			
1.0	0.5 - 4.0	0.83	0.74	40	130	1.0	0
1.6	0.5 - 4.0	1.26	0.70	40	130	1.6	0
2.3	0.5 - 4.0	1.26	0.95	40	130	2.3	0
3.5	0.5 - 4.0	1.59	1.15	40	150	3.5	0

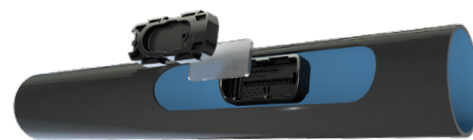
DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16012	14.2	1.2	16.6	4.0	5.2	1.3
20012	17.5	1.2	19.9	4.0	5.2	0.4

LEACH LINE D™ Ω

HEAP LEACHING FOR GOLD & SILVER MINES

16012 - 20012



DripNet PC™ is a pressure compensated dripper for uniform leaching even on sloping terrain ,in moderate solution quality - DripNet PC™ guarantee uniform flow of solution from the top of the pad to the bottom of the slope.

Option for An anti-migration mechanism stops water from running down the tube, preventing bottom pooling.

Made with UV and acid resistant polyethylene tubing; the highest quality resins available.

Available diameters: 16, 20 mm OD (outside diameter).

Available flow rates: 1.0, 1.6, 2.0 and 3.0 l/h.

FEATURES & BENEFITS

- Pressure compensation over a wide pressure range (up to 3.5 bar) produces uniform dripper flow rates from each dripper outlet
- Continuously self-flushing: Flushes debris, throughout operation, ensuring uninterrupted dripper operation
- Self-flushing system with wide filtration area improves resistance to clogging thus making DripNet PC™ highly resistant
- TurboNet™ labyrinth assures wide yet shorter water passages, with large deep and wide cross section that improves dripper's clog resistance
- Water is drawn in to the dripper from the center of the stream, assuring continuous filter flushing
- Longer runs and steep topographies are irrigated with high uniformity
- Seamless, one-piece construction prevents damage to drippers during installation and retrieval
- Low coefficient of variability (CV)
- Optional - Anti-migration technology prevents water runoff along pipe, achieved by incorporating a specially designed ring that can be pre assembled on the tube during production

APPLICATIONS

- On-surface or subsurface applications in heap leached mines
- Ideal for slopes irrigation
- When high uniformity and longer runs are required
- For long-term, re-use

ANTI-MIGRATION DRIPPERLINE RING (OPTIONAL)

Pre-installed ring

- Prevents solution migration on uneven surfaces and slopes
- Economical - saves labor
- Pre-installed on the dripperline during production

DRIPPERS TECHNICAL DATA

FLOW RATE (L/H)	WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS			FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X
		WIDTH (MM)	DEPTH (MM)	LENGTH (MM)			
1.00	0.4 - 3.0	0.61	0.60	8	39	1.0	0
1.60	0.4 - 3.0	0.76	0.73	8	39	1.6	0
2.00	0.4 - 3.5	0.76	0.85	8	39	2.0	0
3.00	0.4 - 3.5	1.02	0.88	8	39	3.0	0

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
16012	14.2	1.2	16.6	3.0/3.5*	4.6	0.72
20012	17.5	1.2	19.9	3.0/3.5*	4.6	0.25

*According to drippers flow rate

LEACH LINE A™ Ω

HEAP LEACHING FOR COOPER, GOLD & SILVER MINES



16009 - 16010 - 16012 - 20010 - 20012

Leach Line A™ is the industry leading non pressure compensated dripper, proove experience in mines leaching. The dripper is welded in the wall of the seamless pipe assuring strength and durability. Available diameters: 16 and 20 OD (outside diameter). Available flow rates: 1.0, 1.5, 2.0, 3.0, 4.0 and 8.0 l/h.

FEATURES AND BENEFITS

- Superior TurbuNext™ flow labynn that enssures superior clogging resistance
- Wide and deep flow path cross-section to minimize clogging and ensure exact flow rate in all working conditions
- Large filtration area for optimal performance, even with suspended solids solutions
- Internal emitter protected against mechanical damage.
- Injected molded drippers ensure high uniformity and very low CV, that assure uniform irrigation along all the leaching cycle

APPLICATIONS

- On-surface or subsurface installtions in heap leached mines
- Flat terrain or slopes of heap leached pads

ANTI-MIGRATION DRIPPERLINE RING (OPTIONAL)

Pre-installed ring

- Prevents solution migration on uneven surfaces and slopes
- Economical - saves labor
- Available for 16 and 20 mm OD dripperlines
- Pre-installed on the dripperline during production (optional)

DRIPPERLINE TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAX. FLUSHING PRESSURE (BAR)	KD
16009	14.2	0.9	16.0	3.0	3.5	0.40
16010	14.2	1.0	16.2	3.5	4.0	0.40
16012	14.2	1.2	16.6	4.0	4.6	0.40
20010	17.5	1.0	19.5	3.5	4.0	0.10
20012	17.5	1.2	19.9	4.0	4.6	0.10

DRIPPERS TECHNICAL DATA

16009, 16010, 20010 - 0.9 AND 1.0 MM WALL THICKNESS DRIPPERLINES

FLOW RATE* (L/H)	MAX. WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS			FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X
		WIDTH (MM)	DEPTH (MM)	LENGTH (MM)			
1.00	3.0/3.5	0.60	0.74	65	47	0.347	0.46
1.50		0.71	0.85	65	49	0.520	0.46
2.00		0.76	1.03	65	51	0.693	0.46
3.00		0.90	1.20	65	51	1.040	0.46
4.00		0.94	1.28	33	51	1.387	0.46
8.00		1.52	1.28	28	50	2.773	0.46

*Flow rate at 1.0 bar pressure

**According to dripperline wall thickness

FLOW RATE (L/H) VS. PRESSURE (BAR)

FLOW RATE (L/H) / PRESSURE (BAR)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.5
1.00	0.48	0.66	0.79	0.90	1.00	1.21	1.38	1.53	1.66	1.78
1.50	0.72	0.98	1.19	1.35	1.50	1.81	2.06	2.29	2.49	2.67
2.00	0.95	1.31	1.58	1.80	2.00	2.41	2.75	3.05	3.31	3.56
3.00	1.43	1.97	2.37	2.71	3.00	3.61	4.13	4.57	4.97	5.34
4.00	1.91	2.62	3.16	3.61	4.00	4.82	5.50	6.10	6.63	7.12
8.00	3.81	5.25	6.32	7.22	8.00	13.26	12.19	11.00	9.64	14.23

*Nominal flow rate at 1.0 bar pressure

** 1.0 bar = 14.5 psi

***Q (flow rate) = $K \cdot P^X$

16012, 20012 - 1.2 MM WALL THICKNESS DRIPPERLINES

FLOW RATE* (L/H)	MAX. WORKING PRESSURE (BAR)	WATER PASSAGES DIMENSIONS			FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X
		WIDTH (MM)	DEPTH (MM)	LENGTH (MM)			
1.05	4.0	0.60	0.74	65	47	0.364	0.46
1.60		0.71	0.85	65	49	0.554	0.46
2.10		0.76	1.03	65	51	0.728	0.46
3.15		0.90	1.20	65	51	1.092	0.46
4.20		0.94	1.28	33	51	1.455	0.46
8.40		1.52	1.28	28	50	2.912	0.46

*Flow rate at 1.0 bar pressure

FLOW RATE (L/H) VS. PRESSURE (BAR)

FLOW RATE (L/H) / PRESSURE (BAR)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.5	4.0
1.05	0.50	0.69	0.83	0.95	1.05	1.27	1.44	1.60	1.74	1.87	1.99
1.60	0.76	1.05	1.26	1.44	1.60	1.93	2.20	2.44	2.65	2.84	3.02
2.10	1.00	1.38	1.66	1.89	2.10	2.53	2.89	3.20	3.48	3.74	3.97
3.15	1.50	2.07	2.49	2.84	3.15	3.80	4.33	4.80	5.22	5.60	5.96
4.20	2.00	2.75	3.32	3.79	4.20	5.06	5.77	6.40	6.96	7.47	7.94
8.40	4.01	5.51	6.64	7.58	8.40	10.12	11.55	12.80	13.92	14.94	15.89

*Nominal flow rate at 1.0 bar pressure

** 1.0 bar = 14.5 psi

***Q (flow rate) = $K \cdot P^X$



LEACH LINE X™ Ω

HEAP LEACHING FOR COOPER, GOLD & SILVER MINES

12007 - 16009 - 16010 - 16012 - 20010 - 20012

Leach Line X™ dripper's flow path is the industry's widest allowing particles to pass easily through the dripper, virtually eliminating clogging.

Drippers are welded into a wall of seamless tubing, providing added strength and durability.

The dripperline is made with UV and acid resistant polyethylene tubing, the highest quality resins available.

Available diameters: 12, 16 and 20 OD (outside diameter).

Available flow rates: 1.0, 1.5, 2.0, 4.0 and 8.0 l/h.

FEATURES & BENEFITS

- Industry's widest dripper flow path:
 - Patented TurboNet™ technology allows for a wide labyrinth cross-section while keeping the labyrinth short - these features are critical for the proper performance of a dripper
 - No laminar flow chambers in the dripper's flow path that assures superior clogging resistance
- Specially-designed filter located away from the wall of the tubing allows for reduced filter-slot width and long-term operation
- Dripper performs properly even if 90% of the filter is plugged
- Constructed of UV and acid resistant-durable polyethylene
- Five dripper flow rates - provides the broadest range of flow rates available
- Low coefficient of manufacturing variability (CV)
- No special storage requirements - does not degrade if stored outdoors

APPLICATIONS

- On-surface or subsurface installations of heap leached mines
- Flat terrain or slopes in heap leached pads

ANTI-MIGRATION DRIPPERLINE RING (OPTIONAL)

Pre-installed ring

- Prevents solution migration on uneven surfaces and slopes
- Economical - saves labor
- Available for 16 and 20 mm OD dripperlines
- Pre-installed on the dripperline during production

DRIPPERLINES TECHNICAL DATA

MODEL	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	MAXIMUM FLUSHING PRESSURE (BAR)	KD
12007	10.5	0.7	11.9	3.5	4.6	0.70
16009	14.2	0.9	16.0	3.0	3.5	0.40
16010	14.2	1.0	16.2	3.5	4.0	0.40
16012	14.2	1.2	16.6	4.0	4.6	0.40
20010	17.5	1.0	19.5	3.5	4.0	0.10
20012	17.5	1.2	19.9	4.0	4.6	0.10

DRIPPERS TECHNICAL DATA

12007, 16009, 16010, 20010 - 0.7, 0.9 AND 1.0 MM WALL THICKNESS DRIPPERLINES

FLOW RATE* (L/H)	MAX. WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS			FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X
		WIDTH (MM)	DEPTH (MM)	LENGTH (MM)			
1.00	3.0/3.5	0.60	0.80	75	70	0.348	0.46
1.50		0.73	0.85	75	70	0.520	0.46
2.00		0.76	1.08	75	70	0.693	0.46
4.00		1.06	1.40	75	76	1.387	0.46
8.00		1.68	1.40	37	76	2.774	0.46

*Flow rate at 1.0 bar pressure

**According to dripperline wall thickness

FLOW RATE (L/H) VS. PRESSURE (BAR)

FLOW RATE (L/H) / PRESSURE (BAR)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.5	4.0
1.00	0.48	0.66	0.79	0.91	1.00	1.21	1.38	1.53	1.66	1.79	1.90
1.50	0.72	0.98	1.19	1.35	1.50	1.81	2.06	2.29	2.49	2.67	2.84
2.00	0.95	1.31	1.58	1.80	2.00	2.41	2.75	3.05	3.31	3.56	3.78
4.00	1.91	2.62	3.16	3.61	4.00	4.82	5.50	6.10	6.63	7.12	7.57
8.00	3.82	5.25	6.32	7.22	8.00	9.64	11.00	12.19	13.26	14.24	15.14

*Nominal flow rate at 1.0 bar pressure

** 1.0 bar = 14.5 psi

***Q (flow rate) = K*P^X

16012, 20012 - 1.2 MM WALL THICKNESS DRIPPERLINES

FLOW RATE* (L/H)	MAX. WORKING PRESSURE RANGE (BAR)	WATER PASSAGES DIMENSIONS			FILTRATION AREA (MM²)	CONSTANT K	EXPONENT X
		WIDTH (MM)	DEPTH (MM)	LENGTH (MM)			
1.05	4.0	0.60	0.80	75	70	0.364	0.46
1.60		0.73	0.85	75	70	0.555	0.46
2.10		0.76	1.08	75	70	0.728	0.46
4.20		1.06	1.40	75	76	1.456	0.46
8.40		1.68	1.40	37	76	2.913	0.46

*Flow rate at 1.0 bar pressure

FLOW RATE (L/H) VS. PRESSURE (BAR)

FLOW RATE (L/H) / PRESSURE (BAR)	0.2	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.5	4.0
1.05	0.50	0.69	0.83	0.95	1.05	1.27	1.44	1.60	1.74	1.87	1.99
1.60	0.76	1.05	1.27	1.44	1.60	1.93	2.20	2.44	2.65	2.85	3.03
2.10	1.00	1.38	1.66	1.89	2.10	2.53	2.89	3.20	3.48	3.74	3.97
4.20	2.00	2.75	3.32	3.79	4.20	5.06	5.78	6.40	6.96	7.47	7.95
8.40	4.01	5.51	6.64	7.58	8.40	10.12	11.56	12.81	13.93	14.95	15.90

*Nominal flow rate at 1.0 bar pressure

** 1.0 bar = 14.5 psi

***Q (flow rate) = K*P^X

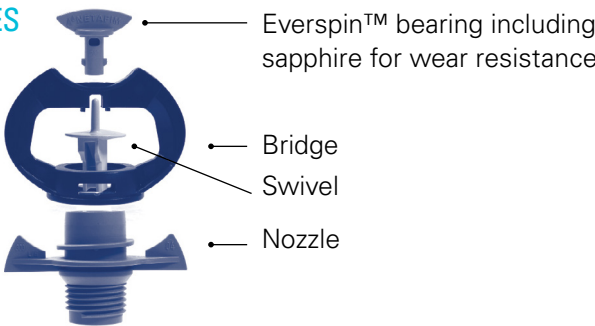


GYRONET™ TURBO

HEAP LEACHING FOR COOPER, GOLD & SILVER MINES

FOR HEAP LEACHING IN GOLD, SILVER AND COPPER MINES

- The ultimate micro-sprinkler for full coverage
- Excellent distribution uniformity
- Optimal drop size
- Relatively low working pressure
- Wear resistant with Everspin™ bearing
- Easy maintenance and cleaning

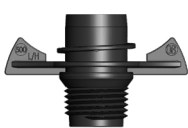


TECHNICAL DATA

MODEL	NOZZLE COLOR	NOZZLE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)	CONSTANT K	EXPONENT X	WETTED DIAMETER AT 0.5M HEIGHT (M)	SWIVEL COLOR
200	Black	1.89	3.0	42.5	0.5	8.5	Orange
250	Black	2.14	3.0	54.5	0.5	10.0	Orange
300	Black	2.31	3.0	64.1	0.5	10.5	Orange
400	Black	2.67	3.0	86.8	0.5	11.0	Orange
500	Black	3.00	3.0	108.5	0.5	11.5	Orange

FLOW RATE VS. PRESSURE (L/H VS. BAR)

MODEL	WORKING PRESSURE (BAR)				
	1.0	1.5	2.0	2.5	3.0
200	134	165	190	213	233
250	172	211	244	273	299
300	203	248	287	321	351
400	274	336	388	434	475
500	343	420	485	543	594



Description	Catalog number
Nozzle 200 l/h	64120-001020
Nozzle 250 l/h	64120-001050
Nozzle 300 l/h	64120-001220
Nozzle 400 l/h	64120-001300
Nozzle 500 l/h	64120-001360



Description	Catalog number
Upper bearing Everspin™ with sapphire stone	64120-001760



Description	Catalog number
Bridge	64120-002050



Description	Catalog number
Orange swivel with ring	64120-001590



GyroNet™ Turbo complete head	
Catalog number: 64100 + (any of the below 6 digits)	
Model	
200	001900
250	003040
300	003900
400	005000
500	005980

GYRONET™ TURBO PERFORMANCE DATA

MODEL	NOZZLE CODE COLOR	ROTOR CODE COLOR	WORKING PRESSURE (BAR)	HEIGHT ABOVE SOIL (M)	DISTANCE BETWEEN EMITTERS (M)	DISTANCE BETWEEN LATERALS (M)	CU	DU	SC (5%)	PRECIPITATION (L/M²/H)
200	Yellow	Orange	2.0	0.5	4.0	4.0	96%	95%	1.1	11.6
200	Yellow	Orange	2.0	0.5	4.5	4.5	93%	89%	1.2	9.2
200	Yellow	Orange	2.0	0.5	5.0	5.0	94%	91%	1.1	7.5
250	Purple	Orange	2.0	0.5	4.0	4.0	95%	92%	1.1	13.5
250	Purple	Orange	2.0	0.5	4.5	4.5	92%	87%	1.2	10.6
250	Purple	Orange	2.0	0.5	5.0	5.0	93%	90%	1.2	8.6
300	Green	Orange	2.0	0.5	4.5	4.5	94%	93%	1.1	14.0
300	Green	Orange	2.0	0.5	5.0	5.0	93%	89%	1.2	11.3
300	Green	Orange	2.0	0.5	5.5	5.5	92%	88%	1.2	9.3
400	Blue	Orange	2.0	0.5	6.0	6.0	92%	87%	1.2	10.3
400	Blue	Orange	2.0	0.5	6.5	6.5	95%	93%	1.1	8.8
400	Blue	Orange	2.0	0.5	7.0	7.0	92%	88%	1.1	7.6
500	Brown	Orange	2.0	0.5	6.5	6.5	93%	92%	1.1	11.3
500	Brown	Orange	2.0	0.5	7.0	7.0	92%	91%	1.1	9.8
500	Brown	Orange	2.0	0.5	7.5	7.5	87%	82%	1.2	8.5

MODEL	NOZZLE CODE COLOR	ROTOR CODE COLOR	WORKING PRESSURE (BAR)	HEIGHT ABOVE SOIL (M)	DISTANCE BETWEEN EMITTERS (M)	DISTANCE BETWEEN LATERALS (M)	CU	DU	SC (5%)	PRECIPITATION (L/M²/H)
200	Yellow	Orange	1.5	0.5	3.0	3.0	95%	91%	1.2	15.6
200	Yellow	Orange	1.5	0.5	3.5	3.5	93%	87%	1.4	11.4
200	Yellow	Orange	1.5	0.5	4.0	4.0	87%	81%	1.3	8.8
250	Purple	Orange	1.5	0.5	3.5	3.0	96%	94%	1.1	17.1
250	Purple	Orange	1.5	0.5	4.0	3.5	96%	94%	1.1	13.1
250	Purple	Orange	1.5	0.5	4.5	4.0	90%	87%	1.2	10.4
300	Green	Orange	1.5	0.5	5.0	5.0	90%	86%	1.4	9.8
300	Green	Orange	1.5	0.5	5.5	5.5	92%	87%	1.3	8.1
300	Green	Orange	1.5	0.5	6.0	6.0	90%	87%	1.2	6.8
400	Blue	Orange	1.5	0.5	6.0	6.0	90%	84%	1.4	9.3
400	Blue	Orange	1.5	0.5	6.5	6.5	93%	90%	1.2	7.9
400	Blue	Orange	1.5	0.5	7.0	7.0	91%	85%	1.2	6.8
500	Brown	Orange	1.5	0.5	6.5	6.5	89%	84%	1.5	9.9
500	Brown	Orange	1.5	0.5	7.0	7.0	92%	86%	1.2	8.5
500	Brown	Orange	1.5	0.5	7.5	7.5	89%	85%	1.2	7.4

MEGAStand™

SPRINKLER STAND FOR INSTALLATION WITH NETAFIM™ FLEXIBLE PIPES

MegaStand™ is used for combination between GyroNet™ Turbo or others sprinklers (with male thread inlet connector 1/2") and flexible pipes: FlexNet™. MegaStand™ is the ultimate solution for overhead irrigation over heat leaching pads. MegaStand™ is made from acid resisting materials making it suitable for multiple leaching of minerals.

The stand consists of the following parts:

- a) Base
- b) Arm
- c) Riser – several units (1, 2 or 3) can be installed together to achieve the desired sprinkler height

If the stand installed comprises only Netafim™ made parts, Teflon is not needed. The parts will be supplied as individual components to allow ordering a stand with height according to requirement (40, 80 or 120 cm).

The Netafim™ MegaStand™ can be connected to field sprinklers with 2" and 3" FlexNet™ pipes.



BASE

Catalog number per 1 unit: 64520-002480

Unit quantity per box: 20 units

ARM

Catalog number per single 1 unit: 64520-002485

Unit quantity per box: 50 units

RISER:

Catalog number per single 1 unit: 64520-002490

Unit quantity per box: 100 units

<div>MEGA-RISER 1/2"</div> <div>0.4 meter length</div> <div>1/2" male threaded -</div> <div>1/2" female threaded</div>		<div>MEGA-SUPPORTING ARM</div>		<div>MEGA-BASE</div>	
64520-002490		64520-002485		64520-002480	

MISTNET™

EVAPORATING DISPERSION

MistNet™ is perfect solution when evaporative solution is required.
The solution flow is distributed into the atmosphere as micro sized droplets evaporating.

Bridgeless design eliminates dripping.

Acid resistant (AA) raw materials allow applied chemicals to pass through the system.

With a relatively low pressure of 3.0 bar, the MistNet™ uniformly distributes an average drop size of 150 micron.

Recommended filtration: 75 micron / 200 mesh



MISTNET™

Head only (with male inlet connector)

Catalog number: **63100** - (any of below 6 digits)

MODEL	SINGLE	SINGLE
	"S"	"S" 100units/bag
015	040100	040120
025	040000	040020

PACKAGING DATA

MISTNET™	QUANTITY P/BOX UNITS	BOX SIZE (CM X CM X CM)	BOX WEIGHT (KG)	BOXES P/PALLET	TOTAL UNITS P/PALLET	PALLET WEIGHT (KG)
Head only	4500	18 x 34 x 79	19.5	20	90000	390

CONNECTORS

RESISTANT, DURABLE DRIPPERLINE-TO-DRIPPERLINE CONNECTORS



INTRODUCTION

Netafim™ comprehensive range of dripperline connector systems is made of high chemical resistance resistance and durability polymers.


They are functional and viable, modeled under the highest market standards and available for all dripperline types.


CONNECTORS TECHNICAL DATA


	DRIPPERLINE		SUBSURFACE INSTALLATION		LAYOUT/RECOILING	REUSABLE
	INTERNAL DIAMETER (MM)	WALL THICKNESS (MM)	DEEP INJECTION	SHALLOW INJECTION		
Connectors for HWD						
BARB for MINING (VIOLET)						
12	10.2	1.0-1.2	√	√	√	X
16	14.2	0.9-1.2	√	√	√	X
17	14.6	1.2	√	√	√	X
18	15.5	1.1	√	√	√	X
20	17.5	1.0-1.2	√	√	√	X


√ Suitable
X Not suitable
X/√ Suitable but not recommended


TWIST LOCK (TL) CONNECTORS


DESCRIPTION	TL coupling 16		
CATALOG NUMBERS	1 units	32500-016010	

DESCRIPTION	TL 16 Barb 16/17		
CATALOG NUMBERS	1 units	32500-016030	

DESCRIPTION	TL 16 MTH ½"		
CATALOG NUMBERS	1 units	32500-016020	

DESCRIPTION	TL 16 MTH ¾"		
CATALOG NUMBERS	1 units	32500-018185	

DESCRIPTION	TL elbow 16 MTH ½"		
CATALOG NUMBERS	1 units	32500-011380	

DESCRIPTION	TL "T" 16 x 2 MTH ½"		
CATALOG NUMBERS	1 units	32500-016090	



BARB CONNECTORS 12, 16, 17, 18, 20 MM FOR MINING (PURPLE)

Maximum working pressure 3 bar.

DESCRIPTION	Coupling barb 12 x 12		
CATALOG NUMBERS	1 unit	32500-002250	
	50 units/bag		
	100 units/bag	32500-002270	

DESCRIPTION	Coupling barb 16 x 16		
CATALOG NUMBERS	1 unit	32500-010680	
	50 units/bag	32500-010685	
	100 units/bag	32500-010690	

DESCRIPTION	Coupling barb 17 x 17		
CATALOG NUMBERS	1 unit	32500-003900	
	50 units/bag	32500-003915	
	100 units/bag	32500-003930	

DESCRIPTION	Coupling barb 18 x 18		
CATALOG NUMBERS	1 unit	32500-014217	
	50 units/bag		
	100 units/bag	32500-014227	

DESCRIPTION	Coupling barb 20 x 20		
CATALOG NUMBERS	1 unit	32500-007700	
	50 units/bag	32500-007721	
	100 units/bag	32500-007730	

DESCRIPTION	Elbow barb 12 x 12		
CATALOG NUMBERS	1 unit	32500-003250	
	50 units/bag	32500-003260	
	100 units/bag		

DESCRIPTION	Elbow barb 16 x 16		
CATALOG NUMBERS	1 unit	32500-012480	
	50 units/bag		
	100 units/bag		

DESCRIPTION	Elbow barb 17 x 17		
CATALOG NUMBERS	1 unit	32500-005970	
	50 units/bag		
	100 units/bag		

DESCRIPTION	Elbow barb 18 x 18		
CATALOG NUMBERS	1 unit	32500-014261	
	50 units/bag		
	100 units/bag		

DESCRIPTION	"T" barb 16 x 16 x 16		
CATALOG NUMBERS	1 unit	32500-011340	
	50 units/bag		
	100 units/bag		

DESCRIPTION	"T" barb 12 x 12 x 12		
CATALOG NUMBERS	1 unit	32500-002533	
	50 units/bag		
	100 units/bag		



BARB CONNECTORS 12, 16, 17, 18, 20 MM FOR MINING (PURPLE)

Maximum working pressure 3 bar.

DESCRIPTION	Straight barb 12 - MTH ½"	
CATALOG NUMBERS	1 unit	32500-002360
	50 units/bag	
	100 units/bag	



DESCRIPTION	Straight barb 16 - MTH ½"	
CATALOG NUMBERS	1 unit	32500-010935
	50 units/bag	
	100 units/bag	



DESCRIPTION	Straight barb 16 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-011050
	50 units/bag	
	100 units/bag	



DESCRIPTION	Straight barb 17 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-004520
	50 units/bag	32500-004530
	100 units/bag	



DESCRIPTION	Straight barb 18 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-014150
	50 units/bag	32500-014170
	100 units/bag	



DESCRIPTION	Straight barb 20 - MTH ½"	
CATALOG NUMBERS	1 unit	32500-008040
	50 units/bag	
	100 units/bag	



DESCRIPTION	Straight barb 20 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-008250
	50 units/bag	
	100 units/bag	



DESCRIPTION	"Y" barb 12 x 2 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-002750
	50 units/bag	
	100 units/bag	



DESCRIPTION	"Y" barb 16 x 2 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-011240
	50 units/bag	
	100 units/bag	



DESCRIPTION	"Y" barb 17 x 2 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-004650
	50 units/bag	
	100 units/bag	



DESCRIPTION	"Y" barb 18 x 2 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-014251
	50 units/bag	
	100 units/bag	



DESCRIPTION	"Y" barb 20 x 2 - MTH ¾"	
CATALOG NUMBERS	1 unit	32500-008350
	50 units/bag	
	100 units/bag	



DESCRIPTION	Reducing coupling barb 12 barb 16	
CATALOG NUMBERS	1 unit	32500-010870
	50 units/bag	
	100 units/bag	



DESCRIPTION	Reducing coupling barb 16 barb 20	
CATALOG NUMBERS	1 unit	32500-007790
	50 units/bag	
	100 units/bag	



LINE END



DESCRIPTION	"8" line end 16	
CATALOG NUMBERS	1 unit	32500-013000
	50 units/bag	32500-013020
	100 units/bag	32500-013030







DESCRIPTION	"8" line end 20	
CATALOG NUMBERS	1 unit	32500-014400
	50 units/bag	32500-014420
	100 units/bag	32500-014430



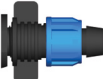

START CONNECTORS


DESCRIPTION	Seal for start barb connector Model P		
CATALOG NUMBERS	1 unit	32500-010450	
	50 units/bag	32500-010455	
	100 units/bag	32500-010460	
Description	Start connector, barb 16, model P, without seal		
Catalog numbers	1 unit	32500-014120	
	50 units/bag		
	100 units/bag		



DESCRIPTION	Seal EPDM f/16 mm start conn f/mines		
CATALOG NUMBERS	1 unit	32500-013850	
DESCRIPTION	Start connector, barb 16 x 16		
CATALOG NUMBERS	1 unit	32500-010680	
	50 units/bag	32500-010685	
	100 units/bag	32500-010690	

DESCRIPTION	Straight ring lock 16 - 1/2" MTH		
CATALOG NUMBERS	1 unit	32500-004410	
	50 units/bag		
	100 units/bag		
DESCRIPTION	Straight ring lock 16 - 3/4" MTH		
CATALOG NUMBERS	1 unit	32500-015910	
	50 units/bag		
	100 units/bag		

LAY FLAT (LYF) CONNECTORS & TOOLS

DESCRIPTION	LYF starter 16		
CATALOG NUMBERS	1 unit	32500-018100	
DESCRIPTION	LYF start con 3/4" MTH (OD 3/8 ID)		
CATALOG NUMBERS	1 unit	32500-018087	

DESCRIPTION	LYF punch 14 mm		
CATALOG NUMBERS	1 unit	45000-001540	
DESCRIPTION	LYF start con OS 3/4" MTH (OD 1/2 ID)		
CATALOG NUMBERS	1 unit	32500-023100	

DESCRIPTION	Hexagonal secure tool 1/2"		
CATALOG NUMBERS	1 unit	45000-003280	
DESCRIPTION	Tightener tool		
CATALOG NUMBERS	1 unit	45000-003260	

NETAFIM™ FLEXIBLE PIPES

FLEXNET™ HP

INNOVATIVE MAINLINE AND SUB-MAINLINE PIPING SOLUTIONS
THAT ARE EASY TO INSTALL, RECOIL AND RELOCATE

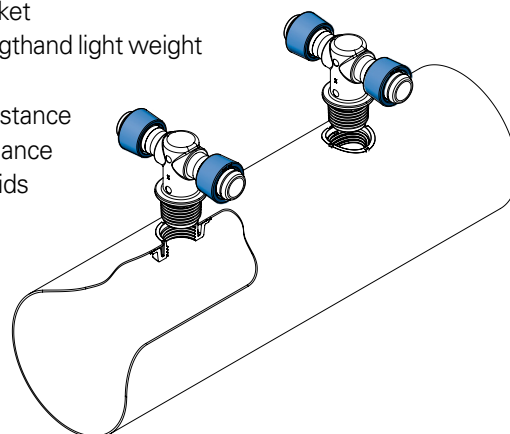


APPLICATIONS

- Sub main for dripper lines on heap leaching
- Flushing manifold for dripperlines on heap leaching
- Sub main for Sprinklers on heap leaching

FEATURES AND BENEFITS

- Reduced labor through simple and fast installation and retrieval, that is achieved due to low product weight, pre-ordered welded outlets at a spacing that match heap leaching needs, and specially-designed dripperline connectors that require no glue or Teflon, and have the required resistance to the acids used in heap leached mines
- Zero leakage due to the integrally weided connectors that assure uniform solution application over the heap. leached pad
- Dripperlines remain in the same position throughout the entire irrigation cycle due to avoidance of the "snaking" phenomenon that is prevalent with other sub-main pipes in the market
- Product longevity is achieved through unique weaving that provides both strength and light weight and thus allow numerous layings and retrievals
- White colored for high thermal resistance, high chemical resistance and UV resistance
- Full suite of auxiliary products that ensure simplicity, connectivity and maintenance that guarantees product's extended performance with severe solution acids used in heap leached mines, for Silver, copper and gold mines



SPECIFICATIONS

	FLEXNET HP™
ISO 16438 Standard Compatability	√
Available diameters	2", 3", 4", 6", 8"
Coil length	50 or 100 meter
Welded outlet color	Black
Colored strip for easy identification	Red
Raw material	PE
Maximum working pressure	Depending on pipe diameter (see table below)

FLEXNET HP™ TECHNICAL DATA

FLEXNET HP™	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	OUTSIDE DIAMETER (MM)	MAX. WORKING PRESSURE (BAR)
2" / 51 mm	51.5	1.1	53.7	3.0
3" / 78 mm	78.3	1.1	80.5	3.0
4" / 102 mm	102.5	1.1	104.7	3.0
6" / 163 mm	163.0	1.1	165.2	2.2

FLEXNET HP™ PACKAGE DATA

FLEXNET HP™	COIL LENGTH (M)	DIMENSIONS WIDTH*DIAMETER (CM*CM)	COIL WEIGHT (KG)	COIL PER PALLET (UNITS)	COIL LENGTH (M)	DIMENSIONS WIDTH*DIAMETER (CM*CM)	COIL WEIGHT (KG)	COIL PER PALLET (UNITS)
2" / 51 mm	100	9.0*78	16.5	22	50	9.0*57	9.0	36
3" / 78 mm	100	14.0*78	29.5	14	50	14.0*57	15.0	28
4" / 102 mm	100	18.5*78	37.5	12	50	18.5*57	19.0	24
6" / 163 mm	100	27.5*78	55.4	6	50	27.5*57	28.3	12

* 80 meter coils length can also be ordered

FLEXNET HP™ BLANK PIPES

Catalog number : 43000-(any of bellow 6 digits)

FLEXNET HP™	BLANK PIPE 50 METER	BLANK PIPE 100 METER
2" / 51 mm	000510	000530
3" / 78 mm	000550	000560
4" / 102 mm	000580	000600
6" / 163 mm	000650	000670

FLEXNET HP™ PIPES WITH INTEGRAL WELDED CONNECTORS

Catalog number : 43000-(any of bellow 6 digits)

FLEXNET HP™	0.3 (M) BETWEEN CONN. 100 METER	0.35 (M) BETWEEN CONN. 100 METER	0.40 (M) BETWEEN CONN. 100 METER	1 (M) BETWEEN CONN. 100 METER	5 (M) BETWEEN CONN. 100 METER	6 (M) BETWEEN CONN. 102 METER	8 (M) BETWEEN CONN. 96 METER	10 (M) BETWEEN CONN. 100 METER
2" / 51 mm	005792	005875	005888	006800	007240	007243	007275	007360
3" / 78 mm	007897	007975		010015			010285	010300
4" / 102 mm				014024			014270	014300
6" / 163 mm								

FLEXNET HP™	0.3 (M) BETWEEN CONN. 50 METER	0.35 (M) BETWEEN CONN. 50 METER	0.40 (M) BETWEEN CONN. 50 METER	1 (M) BETWEEN CONN. 50 METER	5 (M) BETWEEN CONN. 50 METER	6 (M) BETWEEN CONN. 54 METER	8 (M) BETWEEN CONN. 50 METER	10 (M) BETWEEN CONN. 50 METER
2" / 51 mm	005790	005885	005886	006760	007200	007241	007265	007320
3" / 78 mm	007895	007985	008060	008504				
4" / 102 mm				014022				
6" / 163 mm								

* Missing catalog numbers available upon request

** Other distances and configurations between integral welded connectors available upon request

*** 80 meter coils length can also be ordered

Additional catalog numbers can be configured by the FlexNet™ on-line configurator:

<http://productconfig.netafim.com/>

FLEXNET™ HP CONNECTORS







CATALOG NUMBER	PRODUCT DESCRIPTION	PRODUCT PICTURE
43040-018000 43040-018150 43040-018300	FXN/FXN HP Coupling Barb Con. 2" kit FXN/FXN HP Coupling Barb Con. 3" kit FXN/FXN HP Coupling Barb Con. 4" kit	
43040-030820	FXN/FXN HP Coupling Barb Con. 4" Kit (Viton+SST316)	
43040-018050 43040-018200 43040-018350 43040-018370 43040-018390	FXN/FXN HP Barb Con. 2" x MTH BSP 2" kit FXN/FXN HP Barb Con. 3" x MTH BSP 3" kit FXN/FXN HP Barb Con. 4" x MTH BSP 4" kit FXN/FXN HP Barb Con. 4" X MTH BSP 4" KIT (Viton+SST316) FXN/FXN HP Barb Con. 4" X ANSI MPT 4" KIT (Viton+SST316)	
43040-018205 43040-018210 43040-018380	FXN/FXN HP Barb Con. 2" x MTH NPT 2" kit FXN/FXN HP Barb Con. 3" x MTH NPT 3" kit FXN/FXN HP Barb Con. 4" x MTH NPT 4" kit	
43040-018100 43040-018250 43040-018400 43040-018420	FXN/FXN HP Barb Con. 2" x SW ISO 50/63 kit FXN/FXN HP Barb Con. 3" x SW ISO 75/90 kit FXN/FXN HP Barb Con. 4" x SW ISO 110 kit FXN/FXN HP Barb Con. 4" X SW ISO 110 KIT (Viton+SST316)	
43040-018605 43040-018610 43040-018381	FXN/FXN HP Barb Con. 2" x SW ASTM 1.5"/2" kit FXN/FXN HP Barb Con. 3" x SW ASTM 2.5"/3" kit FXN/FXN HP Barb Con. 4" x SW ASTM 2.5"/3" kit	
43040-018900 43040-019000 43040-019100	FXN/FXN HP Elbow Barb Con 2" kit FXN/FXN HP Elbow Barb Con 3" kit FXN/FXN HP Elbow Barb Con 4" kit	
43040-019200 43040-019300 43040-019400	FXN/FXN HP Elbow Barb Con 2" x FTH BSP 2" kit FXN/FXN HP Elbow Barb Con 3" x FTH BSP 3" kit FXN/FXN HP Elbow Barb Con 4" x FTH BSP 4" kit	
43040-018600 43040-018700 43040-018800	FXN/FXN HP Barb Con. 2" x FTH BSP 2" kit FXN/FXN HP Barb Con. 3" x FTH BSP 3" kit FXN/FXN HP Barb Con. 4" x FTH BSP 4" kit	
43040-020710 43040-020720 43040-020730	FXN/FXN HP Cap Barb Con 2" kit FXN/FXN HP Cap Barb Con 3" kit FXN/FXN HP Cap Barb Con 4" kit	
43040-019500 43040-019600 43040-019700 43040-019720	FXN/FXN HP Tee Barb Con 2" kit FXN/FXN HP Tee Barb Con 3" kit FXN/FXN HP Tee Barb Con 4" kit FXN/FXN HP Tee Barb Con. 4" KIT (Viton+SST316)	
43040-019800 43040-019900 43040-020000	FXN/FXN HP Tee Barb Con 2" x FTH BSP 2" kit FXN/FXN HP Tee Barb Con 3" x FTH BSP 3" kit FXN/FXN HP Tee Barb Con 4" x FTH BSP 4" kit	
43040-020100 43040-020200	FXN/FXN HP Tee Barb Con 3" x 2" x 3" kit FXN/FXN HP Tee Barb Con 4" x 3" x 4" kit	

FLEXNET HP™ 6" CONNECTORS KITS



PRODUCT PICTURE	PRODUCT DESCRIPTION	CATALOG NUMBER	FLEXNET™	FLEXNET HP™
" data-bbox="140 855 175 875"/>	FXN HP PX Coupling 6"/160 + 4 clamps	43040-031650		√
	FXN HP PX Barb Con 6" SW ASTM KIT 2 CLAMPS	43040-032450		√
	FXN HP PX Barb Con 6" SW ISO 160 mm KIT 2 CLAMP	43040-032460		√

* Two clamps on each side are needed due to the FlexNet HP™ nominal pressure

FLEXNET™ HP CONNECTORS



CATALOG NUMBER	PRODUCT DESCRIPTION	PRODUCT PICTURE
43040-020300 43040-020400	FXN/FXN HP Reducer Barb Con 3" x 2" kit FXN/FXN HP Reducer Barb Con 4" x 3" kit	
43040-018500	FXN/FXN HP Barb Con. 4" x MTH BSP 3" kit	
43040-030000 43040-030100 43040-030200	FXN/FXN HP Barb con. 2" x Flange ISO 63 kit FXN/FXN HP Barb con. 3" x Flange ISO 90 kit FXN/FXN HP Barb con. 4" x Flange ISO 110 kit	
43040-030520	FXN/FXN HP Barb Con. 4" FLUSH.VALVE KIT	
43040-036200	FXN/FXN HP 4"X UNIV.FLANGE 110 KIT	
43040-036500	FXN/FXN HP 4"XFLANGE ADAPTOR 110 KIT	

SPARE PARTS

CATALOG NUMBER	PRODUCT DESCRIPTION	PRODUCT PICTURE
43040-100000 43040-100010 43040-100020 43040-100030 43040-100040 43040-100050 43040-100060	SS304 Clamp for Barb Conn 2" SS304 Clamp for Barb Conn 3" SS304 Clamp for Barb Conn 4" SS304 Clamp for Barb Conn 6" SS304 Clamp for Barb Conn 8" SS304 Clamp for Barb Conn 10" SS304 Clamp for Barb Conn 12"	
43040-006200 43040-006230 43040-006260 43040-006280	O-ring Seal EPDM 40 x 4.5 For Barb Conn 2" O-ring Seal EPDM 60 x 4.5 for Barb Conn 3" O-ring Seal EPDM 80 x 4.5 for Barb Conn 4" O-ring Seal Viton 80 x 4.5 for Barb Conn 4"	



Note: Spare parts for 2" and 3" made of SST316 and Viton require meeting the MOQ definitions.

FLEXNET™ COMPLEMENTARY PRODUCTS

PRODUCT PICTURE	PRODUCT DESCRIPTION	CATALOG NO.	FLEXNET™	FLEXNET HP™
	FXN PLUG 0.5" MTH+O RING/50 BAG FXN PLUG 0.5" MTH+O RING/100 BAG	42000-027105 42000-027110	√	√
	NETAFIX NFP PUNCTURE FIX KIT BOX NETAFIX NFP SPARE PARTS /20 BAG	42000-007000 42000-007010	√	√

√ Suitable

FLEXNET™ CONNECTOR THREADING TOOLS

PRODUCT PICTURE	PRODUCT DESCRIPTION	CATALOG NO.	FLEXNET™	FLEXNET HP™
	1/2" BSP hand tap (thread)	45000-003185	√	√
	Flat wood drill bit 18 mm for BSP1/2" tap	45000-003162	√	√



NETAFIM™ PE PIPES

POLYETHYLENE PIPES, TUBES AND MICRO-TUBES

APPLICATIONS

For use in heap leaching applications

SPECIFICATIONS

- Standard irrigation pipes, produced according to SI 8779 that fit the International Standard ISO 8779
- Tubes and Micro-tubes 3 × 5, 4 × 6.5, 6 × 8 and 9 × 12, produced according to Netafim™ quality standards for drippers, sprinkler and micro-sprinkler stands
- Micro-tubes 8 mm, produced according to Netafim™ quality standards for hydraulic command and automation systems

FEATURES AND BENEFITS

- All pipes are manufactured with UV and oxidation protection making them durable to solar radiation without significant damage for at least 50 years
- Microorganisms or fungi do not attack PE pipes, either internally or externally
- PE pipes are resistant to saline water, acid or alkaline solutions (excluding highly concentrated solutions) and to most substances employed in agricultural applications
- Available in standard coil lengths, large diameter reels or pipe rods, to meet specific requirements
- Made with the finest available low/medium density polyethylene resin, especially formulated to resist cracking and kinking, and to ensure long-term reliability
- Precision manufacturing to ensure the uniformity of internal diameter and wall thickness



STANDARD IRRIGATION PE PIPES

Tie coils , catalog number : 40500-(any of bellow 6 digits)

MODEL	PIPE OD (MM)	PN (CLASS)	MINIMUM WALL THICKNESS* (MM)	I.D (MM)	MAX. WORKING PRESSURE (BAR)	RAW MATERIAL	TIE COILS PIPE LENGTH				
							25 METER	50 METER	100 METER	200 METER	400 METER
16/4	16	4	1.00	14.00	4.00	LDPE	004110	004210	004310	004410	004510
20/4	20	4	1.20	17.60	4.00	LDPE	004810	004910	005010	005110	005130
25/4	25	4	1.50	22.00	4.00	LDPE	005510	005610	005710	005910	
32/4	32	4	1.30	29.40	4.00	MDPE	006205	006310	006410		
32/4 Soft	32	4	2.40	27.20	4.00	LDPE	006440	006430			
40/4	40	4	1.60	36.80	4.00	MDPE	006650	006700	006900	007000	N/A
40/4 Soft	40	4	3.00	34.00	4.00	LDPE		007300	007400		N/A
50/4	50	4	2.00	46.00	4.00	MDPE	007550	007600	007800	007900	N/A
50/4 Soft	50	4	3.70	42.60	4.00	LDPE		008200	008300		N/A
50/5	50	5	2.40	45.20	5.00	MDPE			008380		N/A
63/4	63	4	2.50	58.00	4.00	MDPE		008500	008700		N/A
63/5	63	5	3.00	57.00	5.00	MDPE		008500	008700		N/A

Missing catalog numbers available upon request

* According to the new standard Minimum Wall Thickness should be declared

IN-LINE PRV (PRESSURE REGULATOR)

ENSURES UNIFORM PRESSURE AT THE INLET OF EACH LATERAL



APPLICATIONS

- Provides required inlet pressure in each lateral
- Provides required pressure in each sprinkler

SPECIFICATIONS

- Maximum inlet pressure: 4 bar / 60 psi
- Flow Rate range: 100-1000 L/H
- Length: 7 cm
- Material: PBT

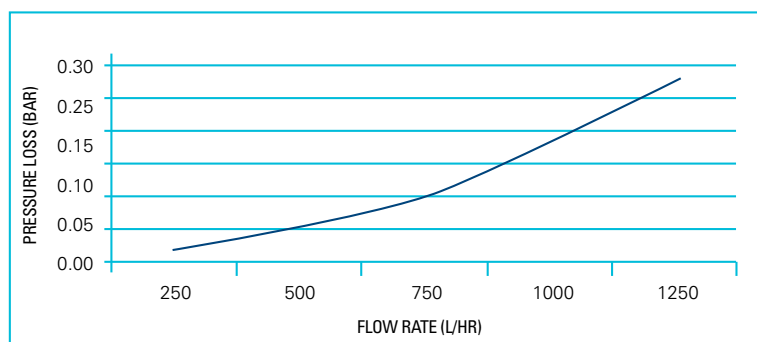
FEATURES AND BENEFITS

- Provides constant pressure to the laterals regardless of upstream pressure rises
- Uniform pressure ensures efficient leaching
- Made of acid and cyanide resistant materials
- Available in 5 optional output pressures: 1.1 bar/15 psi, 1.4 bar / 20 psi, 1.8 bar / 26 psi, 2.5 bar / 35 psi, 3 bar / 43 psi (only in the 3/4"*3/4" version)

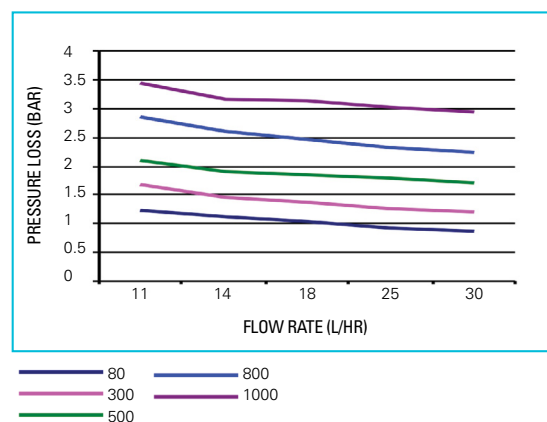
HEAD LOSS 3/4" IN-LINE PRV

FLOW RATE (L/H)	PRESSURE LOSS (BAR)
250	0.02
500	0.05
750	0.1
1000	0.18
1250	0.28

HEAD LOSS (BAR) VS. FLOW RATE (L/H)



OUTLET PRESSURE (BAR) VS. FLOW RATE (L/H)



LOGISTIC INFORMATION

CATALOG NO.	DESCRIPTION	FLOW RANGE (M³/H / GPM)	NOMINAL OUTPUT PRESSURE (BAR / PSI)	MAX OPERATING PRESSURE (BAR / PSI)	REGULATING UNITS QTY
31000-001100	INLINE PR.V. 3/4" 1.1 BAR 15 PSI MINING	0.05-1 / 0.25-4.4	1.1 / 15	4 / 60	1
31000-001115	INL. PR.V. 3/4" 1.1 BAR 15PSI MIN VITON	0.05-1 / 0.25-4.4	1.1 / 15	4 / 60	1
31000-001140	INLINE PR.V. 3/4" 1.4 BAR 20 PSI MINING	0.05-1 / 0.25-4.4	1.4 / 20	4 / 60	1
31000-001180	INLINE PR.V. 3/4" 1.8 BAR 25 PSI MINING	0.05-1 / 0.25-4.4	1.8 / 25	4 / 60	1
31000-001300	INLINE PR.V. 3/4" 2.5 BAR 35 PSI MINING	0.05-1 / 0.25-4.4	2.5 / 35	4 / 60	1
31000-002300	INLINE PR.V. 3/4"*1/2" 1.1 BAR MINING	0.05-1 / 0.25-4.4	1.1 / 15	4 / 60	1
31000-002330	INLINE PR.V. 3/4"*1/2" 1.4 BAR MINING	0.05-1 / 0.25-4.4	1.4 / 20	4 / 60	1
31000-002360	INLINE PR.V. 3/4"*1/2" 1.8 BAR MINING	0.05-1 / 0.25-4.4	1.8 / 25	4 / 60	1
31000-002390	INLINE PR.V. 3/4"*1/2" 2.5 BAR MINING	0.05-1 / 0.25-4.4	2.5 / 35	4 / 60	1

OCTAVE STAINLESS STEEL ULTRASONIC FLOW METER

A precise and reliable ultrasonic bulk water meter with no moving parts. With premium hydraulic batteries with 10 years durability. The 316 stainless-steel Octave body is especially suited for aggressive water in Mining and industrial processes.

FEATURES & BENEFITS

- No impeller or moving parts in the flow path provides for unrestricted, low head loss
- Grade 316 Stainless Steel body design for installation in challenging environments
- Double-beam ultrasonic sensors provide highly accurate flow data and reliable operation
- Reduced maintenance of wear-prone parts commonly found in other meters
- Vacuum sealed and tamper proof IP68 register provides durability and long-term performance
- Lithium batteries provide a 10 years life time
- Each meter is shipped with a certificate verifying $\pm 1.5\%$ flow accuracy for nominal flow rates

SPECIFICATIONS

- Stainless Steel Octave sizes: 3", 4", 6" and 8"
- Body: Grade 316 Stainless Steel with optional different flange inlet and outlet
- PN 16 - Working pressure: 16 bar
- Fluid Temperature Range: 0.1° C to 50°C
- Display Units: Multi-line, programmable 9 digit LCD display
- Output (optional): Programmable single/dual open collector pulse output or externally powered 4-20 mA loop

ORDERING INFORMATION

Contact Netafim Product Manager to get the specific part number per the Octave size, Flange type and outputs.



HYDRAULIC PRESSURE REDUCING VALVE

The valve maintains a preset downstream pressure, regardless of upstream pressure or flow rate fluctuation. The main valve is controlled by a 3-way pilot, allowing full opening when the pressure drops below a downstream pressure set-point.

FEATURES & BENEFITS

- Accurate, stable control from no-flow to full-flow
- Exceptionally low head losses at high flows
- High resistance to corrosive water and other acid media(including 3-way pilot)
- Simple to install - manufactured with threaded or socket (slip) connections
- Simple and reliable design - diaphragm is the only moving component
Shaft, seals or bearings are not located within the water's passage way

PURCHASE SPECIFICATIONS

- Hydraulic valve with direct sealing flexible diaphragm
- Inline maintenance
- Stem, shaft or guide bearing are not located within the water passage
- Activated by the line pressure or by an external hydraulic or pneumatic pressure
- Operated by a pressure reducing pilot valve to achieve constant outlet pressure, regardless of upstream pressure or flow variations

QUICK SIZING

- Valve size same as line size or one size smaller.
- Maximum flow speed for continuous operation of 5.5 m/sec.

DESIGN CONSIDERATIONS

- The valve should be suited for the maximal flow and allowed headloss.
- Large pressure differentials may cause cavitation damage. Consult with Netafim™ if such conditions are expected.



HYDRAULIC FLUSH VALVE

Netafim Flush Valves for Mining are electric on-off valves, operated by a latching solenoid. This solenoid is activated by an electric pulse generated by a battery-operated controller, opening and closing the main valve. The standard valve is supplied in the "normally closed" position, and includes a latching solenoid and a battery operated single valve controller.

FEATURES & BENEFITS

- Low power electric activation (battery operated, latching solenoid)
- High resistance to corrosive water and other acid media (including 3-way solenoid)
- Simple to install - manufactured with threaded or socket (slip) connections
- Simple and reliable design - diaphragm is the only moving component
Shaft, seals or bearings are not located within the water's passage way
- A wide selection of materials, coating and diaphragm types
- All valve models fit a wide variety of control applications using pilot valves

PURCHASE SPECIFICATIONS

- Hydraulic valve with direct sealing flexible diaphragm
- Inline maintenance
- Stem, shaft or guide bearing are not located within the water passage
- Activated by the line pressure or by an external hydraulic or pneumatic pressure
- Operated by a latching solenoid valve and a battery operated single valve controller

QUICK SIZING

- Valve size same as line size or one size smaller
- Maximum flow speed for continuous operation of 5.5 m/sec

DESIGN CONSIDERATIONS

- The valve should be suited for the maximal flow and allowed headloss
- Large pressure differentials may cause cavitation damage. Consult with Netafim™ if such conditions are expected



MODEL 77

RUBBER-LINED DIRECT-SEALING DIAPHRAGM VALVES

With its simple and easy to maintain design, the Rubber-Lined, Direct-Sealing Diaphragm Valves - Model 77 for the Mining Industry are resistant to Sulfuric acid used in copper mines. Variety of other coating and structure materials available upon request and enable a precise match to the specific conditions on site.

FEATURES & BENEFITS

- Simple structure, easy maintenance
- Large variety of offered sizes
- High resistance to any acid used due to special mixture of rubbers
- Extremely low energy losses
- Tailor-made structure materials enable precise match to site's specific environment requirements

SPECIFICATIONS

- Sizes available from: 2" to 24" (50-600 mm)
- The valves can be used in high-pressure (up to 250 m, 350 psi) conditions
- Structure Materials:
 - Body and Bonnet - Ductile iron*
(*other materials for corrosive environment, such as stainless steel, are available upon request)
 - Spring - SST316
 - Diaphragm - ALD70**
(** Special mixture of rubbers to resist a wide range of acids)
- Pressure Range: 1 - 25 bar / 14 - 360 psi

ORDERING INFORMATION

Contact Netafim representative to get the specific part number.



AIR VALVES FOR GOLD & SILVER MINES

INNOVATIVE, DURABLE VALVES FOR ENSURING ADVANCED AIR CONTROL

These type of air valves discharge large quantities of air from non-pressurized dripperlines and are used mainly during pipe filling. Air discharge is critical for efficiently filling pipelines with liquid. Air and Vacuum Valves also enable the intake of large quantities of air when lines are drained, when the pressure drops suddenly and at water column separation. Air intake is essential when draining lines during maintenance and for preventing pipe collapse when vacuum conditions exist. These valves operate when the line is NOT pressurized and remain closed when the line is under pressure. When pressure drops below atmospheric pressure, the valves open.

BENEFITS

- High reliability
- Easy installation
- Low maintenance
- Wide application range
- Long lifespan

KINETIC AIR VALVES

These type of air valves continuously release accumulated air entrapped in a pressurized line. This entrapped air is found mostly at the peaks of the pipeline. As air accumulates in the air release valve, water is displaced, the float lowers with the drop in the water level and air is released from the exposed orifice. As water refills the air release valve, the float rises and reseals the valve.



HIGHLIGHTS NAVk 10

- Large-diameter kinetic orifice
- Applications: main irrigation networks, irrigation control heads, in-field systems, landscape irrigation, pipelines
- Sizes: 3/4", 1", 2"

COMBINATION AIR VALVES

These type of air valves fulfill the tasks required of both types - Air and Vacuum and Automatic Air Release Valves. They discharge large volumes of air when the system is being filled, admit large volumes of air during system drainage and continuously release entrapped air when the system is under pressure.



HIGHLIGHTS NAVc 10

- Large-diameter automatic orifice
- All-in-one product for safe pipeline filling/ draining and dissolved air pocket release
- Applications: main irrigation networks, irrigation control heads, in-field systems, landscape irrigation, pipelines
- Sizes: 3/4", 1", 2"

DAV-C

AIR RELEASE & VACUUM BREAKER VALVES

The DAV-C were designed to withstand corrosive media and harsh environments in mining, desalination plants and chemical industry.

FEATURES & BENEFITS

- High corrosion resistance in wide range of liquids
- Simple structure, easy maintenance
- Large variety of offered sizes
- Optimum aero-dynamic performance
- Variety of Operation Modes:
 - 1st: Venting air from a filling pipeline
 - 2nd: Vacuum Breaking (Air Intake) of a draining pipeline
 - 3rd: Release of dissolved air from a pressurized pipeline
- Custom-made for multiple applications

SPECIFICATIONS

- Available sizes:
 - For DAV-CH (High Capacity Combination and Kinetic Valves): 2" / 50 mm to 10" / 250 mm
 - For DAV-CS (Combination and Kinetic Valve): 3" / 80 mm to 12" / 300 mm
- Pressure rating: PN16 (rated 230 psi), PN25 (360 psi) and PN40 (580 psi)
- Minimal pressure for drip-tight sealing 0.1 bar
- Temp. Range Operating: 0-60°C / 32-140°F
- Storage: -10-70°C / 15-160°F
- Connections: ISO, ANSI, BS, JIS flanges, BSP, NPT threads (50 mm valves only)

ORDERING INFORMATION

Contact Netafim representative to get the specific part number.



DAV-C-SA

SURGE ARRESTING DEVICE

The DAV-C-SA valves automatically prevents water hammer pressure surges associated with air release valves operation and offers optimum performance due to its air outlet that can be custom-made adjusted according to surge analysis results.

FEATURES & BENEFITS

- Reliability: Simple, durable mechanism, fabricated from high grade materials
- Non-Stop Functionality: Can be serviced without having to put the air valve out of service
- Surge Arresting: Automatically prevents water hammer pressure surges associated with air release valves operation
- Optimum performance: Air outlet can be adjusted according to surge analysis results onsite to the required aero-dynamic performance. The SA addition is assembled on user selected valves only (at local high elevated points). The flow through other valves remains unrestricted
- Simplicity – Can be easily assembled on any of DAV-C series air valves



SPECIFICATIONS

- Available sizes:
 - DAV-CH-KA-SA (High Capacity Combination and Kinetic Valves): 2" / 50 mm to 10" / 250 mm
 - DAV-CS-KA-SA (Combination and Kinetic Valve): 3" / 80 mm to 12" / 300 mm
- Pressure rating: PN16 (rated 230 psi), PN25 (360 psi) and PN40 (580 psi)
- Minimal pressure for drip-tight sealing 0.1 bar
- Temp. Range Operating: 0-60°C / 32-140°F
- Storage: -10-70°C / 15-160°F
- Connections: ISO, ANSI, BS, JIS flanges, BSP, NPT threads (50 mm valves only)

ORDERING INFORMATION

Contact Netafim representative to get the specific part number.

