

Dorot Mining

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Control Solutions for the Mining Industry



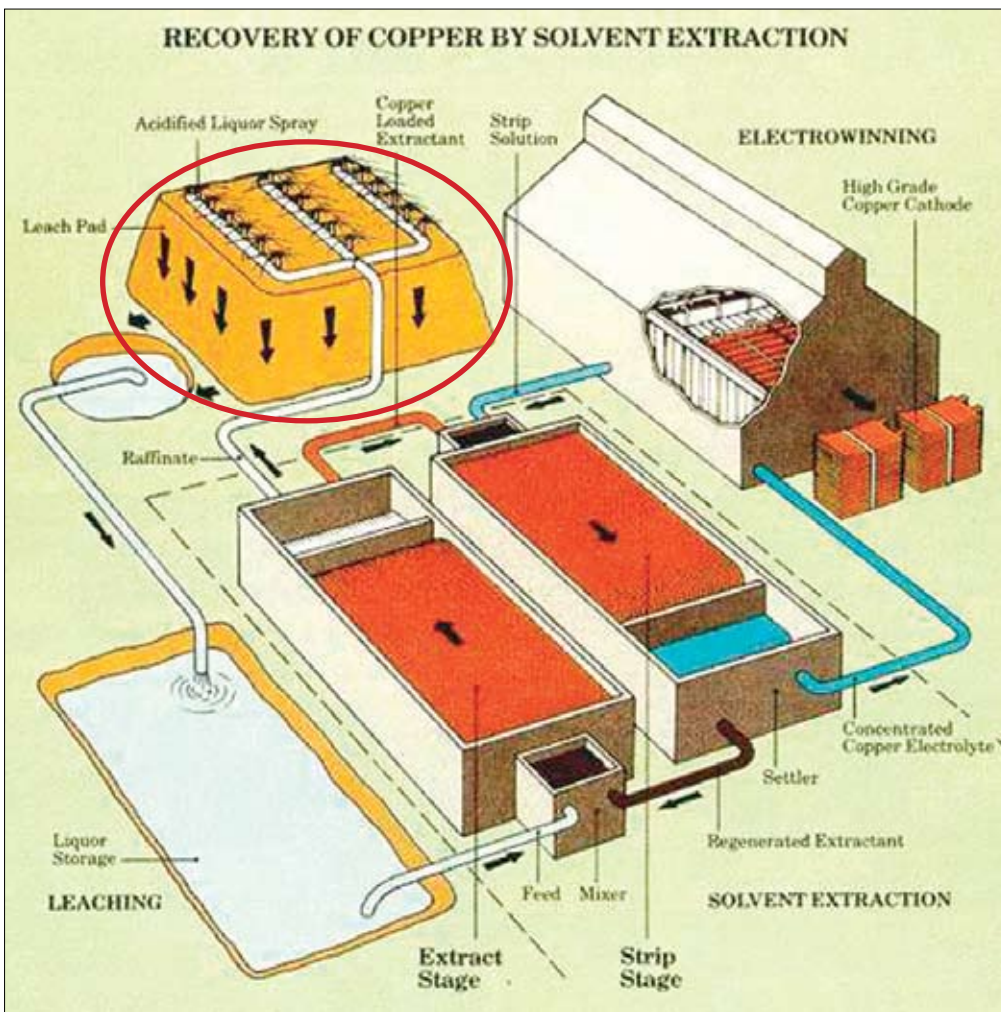
Dorot Valves For The Mining Industry

Leaching control

DOROT mining valves are used to control the ores- leaching process, in mines of various materials. The Automatic valves replace the manual ones in numerous control applications, such as Pressure Reduction, Local Controller- Activated Start / Stop of the leaching, Remote Control, Pipelines Flushing etc. A wide range of control alternatives, enables the user a precise selection of the must- suitable valve for his specific control request.

Features and Advantages

- Simple, symmetric pattern
- Structure materials resistant to strong acids used in the leaching process
- Large water passages, high clogging resistance
- Wide selection of control applications:
 - Pressure Reducing valves, maintaining constant pressure in the sprinklers or drippers laterals.
 - Electrically- activated valves- allowing remote, automatic control of start and stop of the leaching periods.
 - Combination of control functions, pressure control and on / off command
 - Electronic controllers that set fixed timing for the leaching sequence and for laterals flushing.



Valve models used in the mining industry:

uPVC Valve

Advantages:

1. Simple structure, easy maintenance
2. Resistant Materials
3. Solvent welding (glueing) connection to the pipeline
4. Sizes 3" to 6" (90-160mm)
5. Extremely low energy losses



Structure Materials:

Part	Material
Body	uPVC
Bonnet	PPS
Spring	SST316
Diaphragm	ALD70*

*Special mixture of rubbers, developed by DOROT to resist wide range of acids

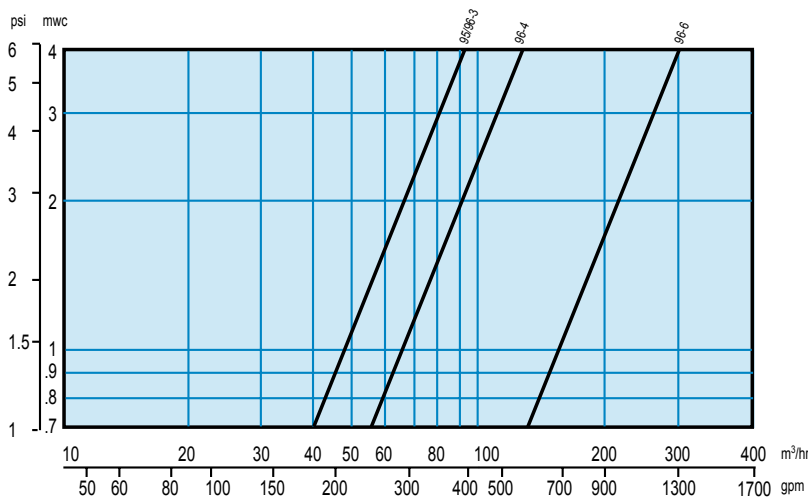
Pressure Range:

- 1 - 8 bar
- 14 - 115 psi

Dimensions and Weights:

Model	Size		L		H		Weight	
	mm	inch	mm	inch	mm	inch	kg	lbs
95/96	80	3	258	10 ¹ / ₈	195	7 ⁵ / ₈	4	8.8
96	110	4	278	11	202	8	4.2	9.2
96	160	6	360	14	380	15	11.8	26

Headloss Chart



Rubber-Lined, Direct-Sealing Diaphragm Valves, Model 77

Advantages:

1. Simple structure, easy maintenance
2. Resistant Materials
3. Sizes: 2" to 24" (50-600mm)
4. Extremely low energy losses
5. The selection of rubber variety of rubber lining enables a precise match to the specific acid, used in the site.
6. The valves can be used in high-pressure (up to 250m, 350psi) conditions.



Structure Materials:

Part	Material
Body	Cast iron (47), Ductile iron (67)*
Bonnet	Cast iron (47), Ductile iron (67)*
Spring	SST316
Diaphragm	ALD70**

* Valves made of other materials, such as stainless steel, are available upon request

** Special mixture of rubbers, developed by DOROT to resist wide range of acids

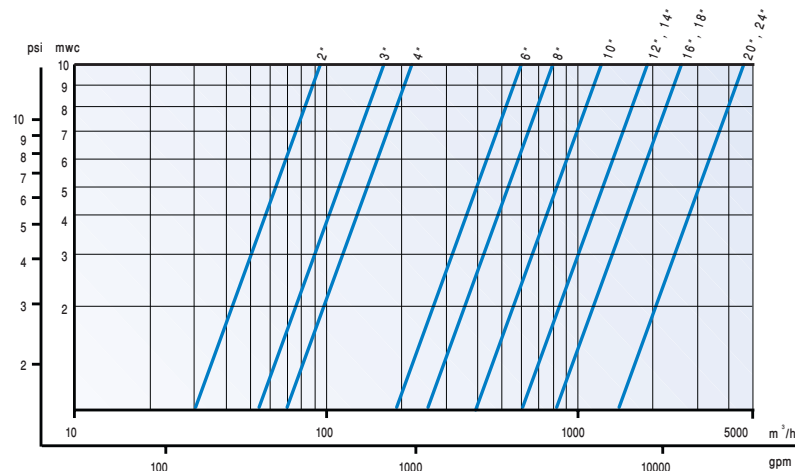
Pressure Range:

- 1 - 16 bar
- 19 - 230 psi

Dimensions and Weights:

Size		L		H		Weight	
mm	inch	mm	inch	mm	inch	kg	lbs
50	2	200	7 13/16	166	6 1/2	7.7	16.9
80	3	258	11 3/16	200	7 13/16	18.2	40.1
100	4	305	12	230	9	23.5	51.8
150	6	390	15 5/16	314	12 5/16	49	108
200	8	460	18 1/8	400	15 11/16	86	189.5
250	10	535	21	445	17 1/2	125	275.5
300	12	580	22 13/16	495	19 3/8	167	368.1
350	14	580	22 13/16	495	19 3/8	172	379.1
400	16	755	29 11/16	830	32 5/8	433	954.6
500	20	900	35 3/8	970	38 1/8	674	1485.9
600	24	900	35 3/8	970	38 1/8	696	1534.4

Headloss Chart



Normally-Closed Valve, Model 60ANC

Advantages:

1. Highly resistant Polypropilene material
2. Sizes: 1 1/2" (40mm), angle patters
3. Natural Normally-closed structure

Structure Materials:

Part	Material
Body	Polypropilene
Bonnet	Polypropilene
Spring	SST316
Diaphragm	EPDM



Pressure Range:

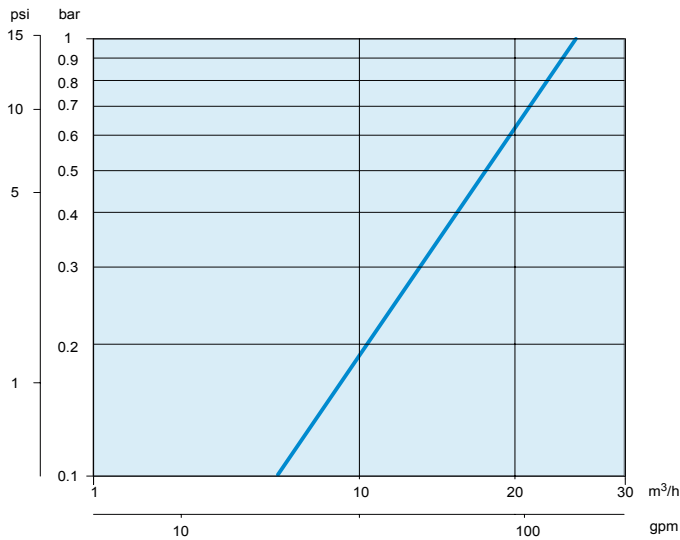
0.4 - 8 bar

7 - 115 psi

Dimensions and Weights:

Size		L		H		Weight	
mm	inch	mm	inch	mm	inch	kg	lbs
40	1.5			164	6 3/8	0.9	1.9

Headloss Chart



DAV-C - Air Release & Vacuum Break Valves, for corrosive fluid networks (Sea Water and Mining)

DAV-C valves are made to resist corrosion caused by various liquids in mines, desalinization plants, and the chemical industry. The DAV-C is supplied at PN16 (rated 230psi), PN25 (rated 360psi) and PN40 (rated 580psi).



Specifications

Nominal sizes	2" / 50mm to 6" / 150mm
Pressure rating	PN16 (230psi), PN25 (350psi), PN40 (580psi)
Minimal pressure for drip-tight sealing	0.2 bar (3psi)
Max. Temperature	65°C (150°F)

DAV-C-SA - Surge Arresting Device for DAV Valves

Features

- **Surge Arresting** – Automatically prevents water hammer associated with operation of air release valves.
- **Optimum Performance** – Air outlet can be adjusted according to surge analysis results, on site to a 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.



Applications:



Pressure Reducing valve



Pressure Sustaining valve, pipes flushing



Control of media filters



Corrosion-resistance safety valve, air and butterfly valves



Electric valve, controlled locally



Pressure Reducing valve, remotely-controlled



High pressure, electrically-controlled, corrosion resistant valve



Innovation

Innovation

Expertise

Expertise

Reliability

Reliability



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Hundreds of companies in the industrial, civil engineering, municipal and agricultural sectors around the world have chosen DOROT's innovative and field-proven technologies. Since its establishment in 1946, DOROT leads the valves market with continued innovation, uncompromising excellence and firm commitment to its customers, consulting and supporting them through all stages of a project and overcoming challenges in R&D, design, implementation, and maintenance.

