

DESCRIPTION

The **INVALCO Diatroller** is a combination liquid level controller and liquid valve. Closed, the force of the weighted rod on top exceeds the liquid pressure under the valve diaphragm. As the liquid level rises in the vessel, the increased head pressure raises the diaphragm, opening the valve.

Gas from the top of pressure vessels is piped to the valve diaphragm's top side to equalize pressure.

FEATURES

Quick Change Trim - Can be changed without taking valve out of the line - reduced downtime.

Replaceable Seat - Reduced overall cost.

Weights Can Be Added - Meets all application demands.

Soft Plug - Assures tight shut-off.

APPLICATIONS

The Series 442 Diatroller is perfect for an oil or water dump valve for treaters, free water knockouts, and gun barrels. It can also be used as a discharge valve for salt water disposal systems.

SPECIFICATIONS

Body Material Cast Iron, A-126

Body Cover Material Cast Iron, A-126

End Connections

2" FNPT Threaded; 3", 4" Class 125# FF Flanges.

Diaphragm Material

Nylon Reinforced Buna N Diaphragm

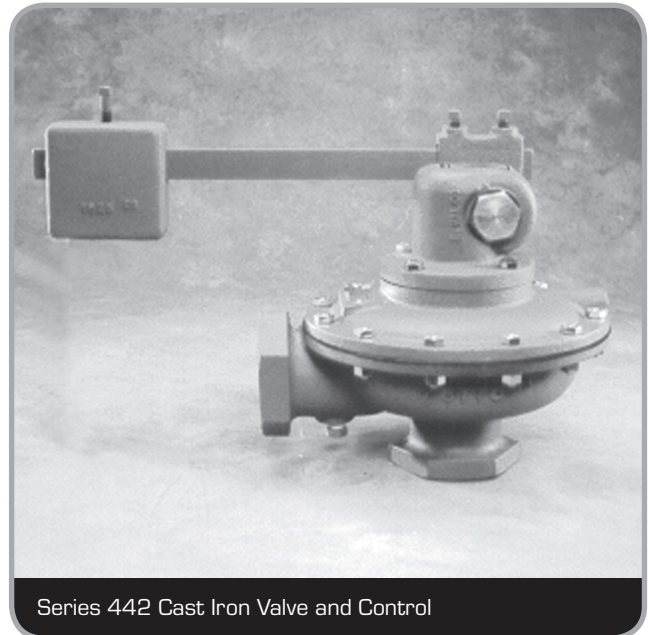
Maximum Differential Operating Pressure 125 psi

Temperature Limits -20°F to 250°F

Plug Type Replaceable, Buna N

Seat Type Removable, Cast Iron

Other Wetted Parts 303 Stainless



Series 442 Cast Iron Valve and Control

ORDERING INFORMATION

Valve			Trim			Part
Size	Model Number	Connection	Size	Cv	Wt	Number
2"	LDSA-201-442	Threaded	1-1/2"	44	65	80005504
3"	LDFA-301-442	125 lb. F.F.	2-1/4"	89	130	80005502
4"	LDFA-401-442	125 lb. F.F.	2-1/4"	94	160	80005503

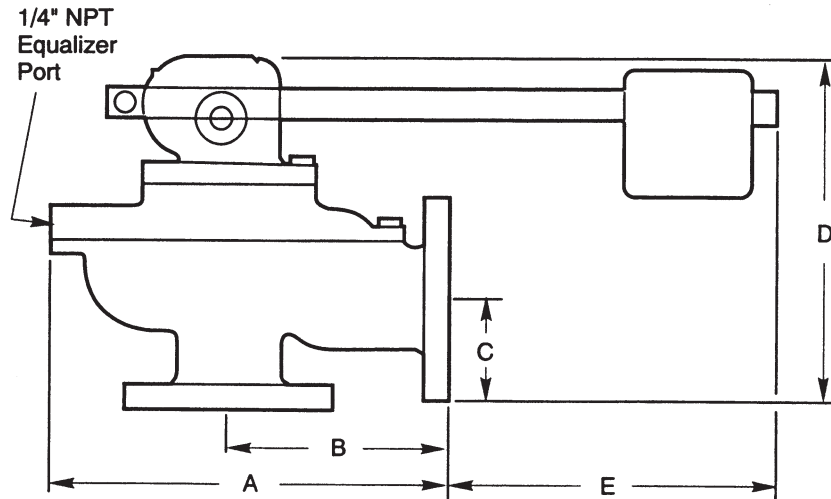
Price Includes: Lever, Lever Collar, and Weight and Drip Trap.
Companion flanges, bolts, and gasket sets are not included

General Notes:

1. Cv values are for fully open inner valve.
2. Part numbers applicable only when valve desired is exactly as described above.
3. To order specify Model Number, Part Number.

DIMENSIONS

Inches (mm)



Note: Dimensions -- Inches to the nearest tenth (millimeters to the nearest whole mm), each independently dimensioned from respective engineering drawings.

Model	A	B	C	D	E
LDSA-201	10.6" (268)	5.9" (149)	3.0" (76)	10.4" (263)	7.9" (200)
LDFA-301	13.9" (352)	8.0" (203)	4.3" (109)	13.5" (342)	17.4" (441)
LDFA-401	14.9" (377)	9.0" (228)	4.8" (122)	14.5" (367)	16.4" (415)

PARTS

Item	Notes	Description	Qty.	LDSA-201		LDFA-301 LDFA-401	
				LDSA-201	LDFA-401	LDSA-201	LDFA-401
1		Screw 1/2-13x1-1/4 HHCS	4	-----	65000176		
		Screw 3/8-16x1 HHCS	4	65000175	-----		
3	*	Stuffing Box Gasket	2	45013360	45013386		
4		Bushing	1	45001815	45002123		
5	*	Hinge Pin	1	79002880	79015295		
6		Stuffing Box Stem	1	45001816	45002125		
7		O-Ring; 2"-BUN-114-90, 3"-BUN-210-90	1	67101304	67101263		
8		Stuffing Box	1	45001818	45002124		
9		Body Cover Head	1	45001810	45002111		
10		Screw 3/8-16x1-1/4 HHCS	10/14	65002346	65002346		
11		Screw 3/8-16x3/4 HHCS	2	-----	65001869		
12	*	Diaphragm	1	45001813	45002109		
13		Retaining Washer	1	45001823	45002121		
14	*	Upper Hinge	1	45001817	45002114		
15		Valve Stem	1	45001822	45002116		
16	*	Lift Pin	1	45002214	45002119		
17	*	Diaphragm Screw	1	45001820	45002117		
18		Diaphragm Retainer	1	45001819	45002118		
19	*	Molded Diaphragm	1	45001877	45002032		
20		Diaphragm Cover	1	45001809	45002110		
21		Upper Diaphragm Plate	1	45001814	45002108		
22		Lower Diaphragm Plate	1	45001812	45002112		
23	*	Neoprene Insert	1	45001824	45002120		
24		Equalizing Plug	1	45001821	45001821		
25		Valve Body 2" Screwed	1	45005770	-----		
		Valve Body 3" Flanged	1	-----	45002107		
		Valve Body 4" Flanged	1	-----	45002352		
26		Nut 3/8-16 Hex	10/14	65001966	65001966		
27		Seat	1	45001811	45002113		
28	*	Seat Gasket	1	45002345	45001224		
29		Drain Plug 1/4" NPT	1	45002595	45002595		
30	#	Weight	1	83201825	83202348		
31	#	Screw 3/8-16x1-1/2 SQHSS for Wt.	1	65006056	65006056		
32	#	Lever	1	99008337	99008338		
33	#	Lever Collar	1	83208326	83208328		
34	#	1/4x1-1/2" XH Galvanized Nipple		45006875	45006875		
35	#	Drip Trap	1	80000502	80000502		
36		Screw 3/8-16x7/8 HHCS	2	65003440	-----		

* Recommended spare parts.

Not Shown

