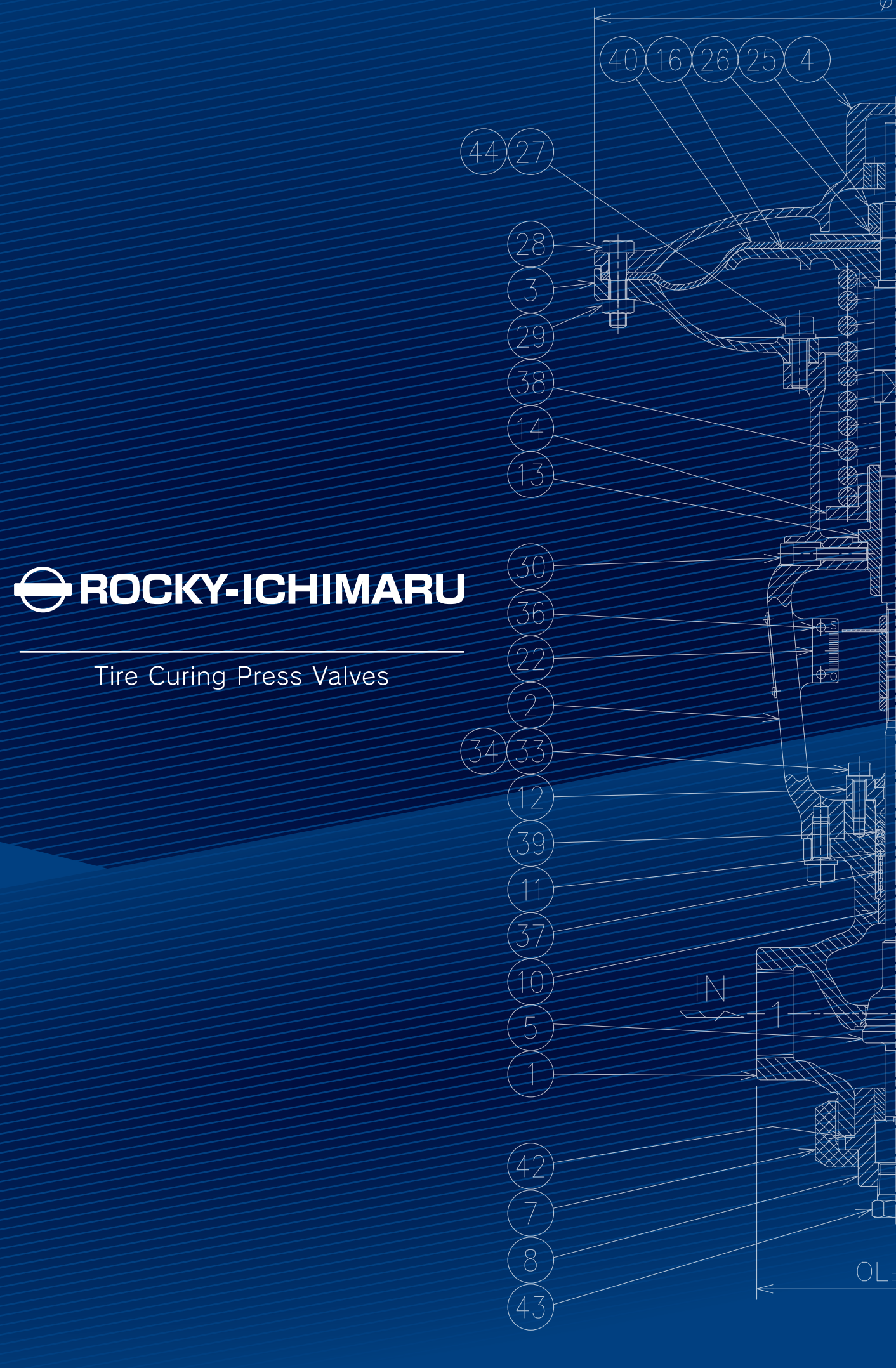
ROCKY-ICHIMARU

Tire Curing Press Valves



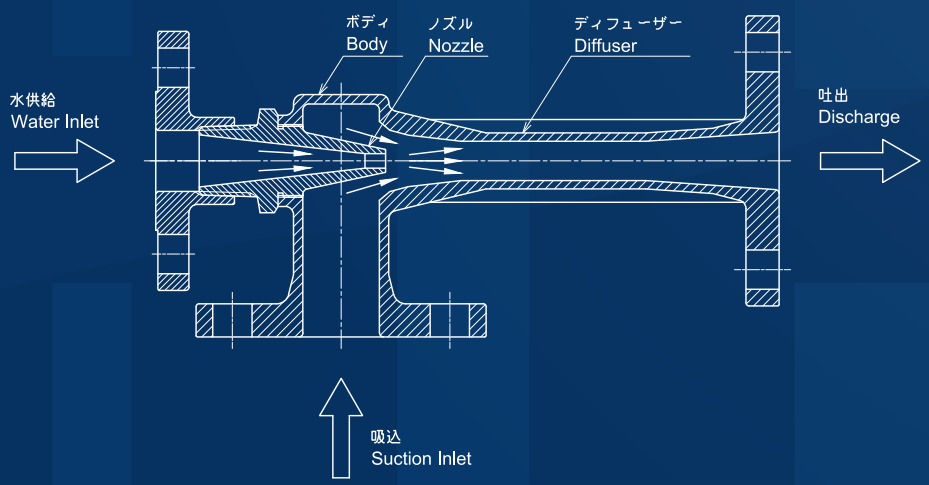
Ejector HE Series

An ejector is a simple, low cost and maintenance free vacuum pump which uses water hydraulic power, composed of three elements: a body, nozzle and diffuser. It operates on the principle that when water is injected at high speed by the nozzle, the pressure reduces below that of its surroundings due to the Venturi effect, and when the reduced pressure water flows into the surrounding fluid, the pressure at the suction inlet port is reduced. An ejector can provide negative pressure for use in a plant with no negative pressure piping network, for example enabling residual internal bladder pressure in a tire curing press to be forcibly extracted to collapse the bladder. It can also regulate negative pressure (suction) by adjusting the hydraulic pressure (flow) supplied by the ejector.

Main Specifications

Drive Fluid	Water	
Compatible Fluids	Steam, N2 Gas, Air	
End Connection	Ports:	Male threaded End (R, NPT) Flanged End (JIS)
Material of main parts*	Body : Brass Nozzle : SUS304 Flange : Suction port Brass Water inlet port S25C or SUS304	

*See valve assembly drawing for details.



Appearance		
Model Number	HE1331-□□-□□	HE1332-□□-□□
End Connection	Threaded End	Flanged End

Product Coding

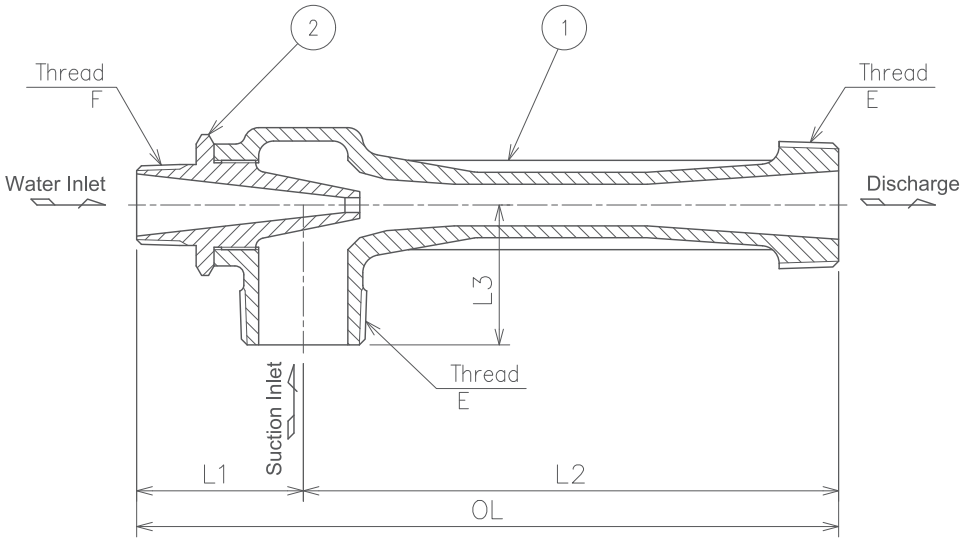
	N1	N2	N3	N4		N5		N6	N7	N8	N9	N10
HE	1	3	3	2	–	40	–	25	J			

Symbol	Meaning of symbol	Code	Meaning of code	Remarks
N1	Model	1	1st Model	
N2	Number of Ports	3	3-way	
N3	Function	3		
N4	End Connection	1	Threaded End	
		2	Flanged End	
N5	Suction / Discharge Port Size	32	DN32	
		40	DN40	
N6	Water Inlet Port Size	20	DN20	
		25	DN25	
N7	Flange Specification	Nil	-	No code is specified if all connections are threaded end (if N4 is “1”).
		J	JIS	Suction / discharge port: JIS 10K FF Water inlet port: JIS 20K RF
N8	Thread Specification	Nil	-	No code is specified if all connections are threaded end (if N4 is “2”).
		P	R	Indicates flange connector specification. Male threaded.
		N	NPT	
N9	Flange Material (Water Inlet Port)	Nil	Steel (S25C)	Flange material is S25C.
		Y	SUS304	Flange material is SUS304.
N10	Specialized Code	Z□□	Specialized Specification	Bespoke codes (e.g. Z1) is used for specialized options.

*Port size and connection specification combinations are limited. See the “Main Dimensions” section.

Threaded

HE1331-32-20P / HE1331-32-20N / HE1331-40-25P / HE1331-40-25N

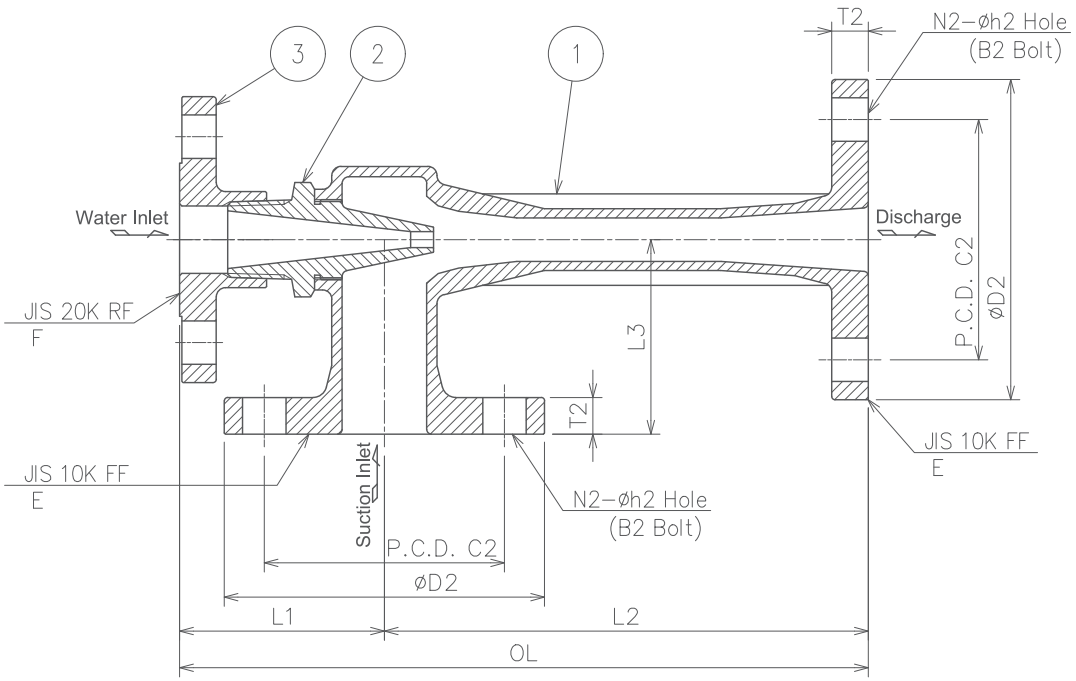


Port Size		Dimensions (mm)				Weight (kg)
E	F	OL	L1	L2	L3	
DN32	DN20	236	56	180	47	1.4
DN40	DN25	280	68.5	211.5	61	2.0

2	Nozzle
1	Body

JIS Flange

HE1332-40-20J□ / HE1332-40-25J□

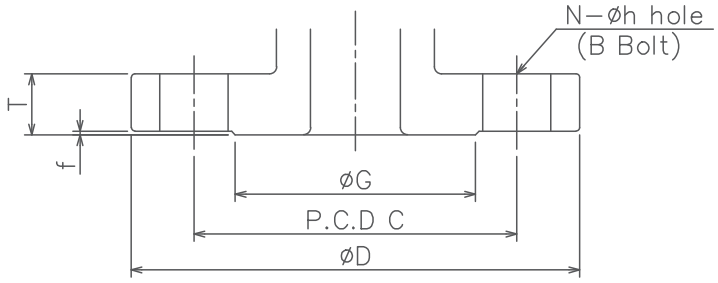


Port Size		Dimensions (mm)										Weight (kg)
E	F	OL	L1	L2	L3	øD2	T2	C2	N2	h2	B2	
DN40	DN20	301	89.5	211.5	85	140	16	105	4	19	M16	6.4
DN40	DN25	301	89.5	211.5	85	140	16	105	4	19	M16	7.0

3	Nozzle Flange
2	Nozzle
1	Body

Reference Materials

■JIS/ANSI/DIN Piping Flange Dimension List



※All of our valve flange surfaces have a smooth finish (Ra≤3.2).

JIS 20K Flange Dimensions

Unit: mm

Nominal Size		Dimensions of Flange Part				Bolt Holes			Bolt Size
		Flange Diameter	Thickness	RF Part		Pitch Circle Diameter	Number	Hole Diameter	
				Raised Height	Face Diameter				
mm	inch	D	T	f	G	C	N	h	Bolt B
15	1/2	95	14	1	51	70	4	15	M12
20	3/4	100	16	1	56	75	4	15	M12
25	1	125	16	1	67	90	4	19	M16
32	1-1/4	135	18	2	76	100	4	19	M16
40	1-1/2	140	18	2	81	105	4	19	M16
50	2	155	18	2	96	120	8	19	M16
65	2-1/2	175	20	2	116	140	8	19	M16
80	3	200	22	2	132	160	8	23	M20

JIS B 2220: 2012

ANSI/ASME Class 300 Flange Dimensions

Unit: mm

Nominal Size		Dimensions of Flange Part				Bolt Holes			Bolt Size
		Flange Diameter	Thickness	RF Part		Pitch Circle Diameter	Number	Hole Diameter	
				Raised Height	Face Diameter				
mm	inch	D	T	f	G	C	N	h	Bolt B
15	1/2	95	14.5	1.6	35	66.5	4	15	1/2”
20	3/4	117	16	1.6	43	82.5	4	19	5/8”
25	1	124	18	1.6	51	89.0	4	19	5/8”
32	1-1/4	133	19.1	1.6	63.5	98.5	4	19	5/8”
40	1-1/2	156	21	1.6	73	114.5	4	22	3/4”
50	2	165	22.3	1.6	92	127.0	8	19	5/8”
65	2-1/2	190	25.5	1.6	104.6	149.4	8	22	3/4”
80	3	210	28.5	1.6	127	168.1	8	22	3/4”

ANSI/ASME B 16.5: 1996

DIN PN40 Flange Dimensions

Unit: mm

Nominal Size		Dimensions of Flange Part				Bolt Holes			Bolt Size
		Flange Diameter	Thickness	RF Part		Pitch Circle Diameter	Number	Hole Diameter	
				Raised Height	Face Diameter				
mm	inch	D	T	f	G	C	N	h	Bolt B
15	1/2	95	16	2	45	65	4	14	M12
20	3/4	105	18	2	58	75	4	14	M12
25	1	115	18	2	68	85	4	14	M12
32	1-1/4	140	18	2	78	100	4	18	M16
40	1-1/2	150	18	3	88	110	4	18	M16
50	2	165	20	3	102	125	4	18	M16
65	2-1/2	185	22	3	122	145	8	18	M16
80	3	200	24	3	138	160	8	18	M16

EN 1092-1: 2001

<Manufacturer>
ROCKY-ICHIMARU Co., Ltd.
601, Oaza Tsunemochi, Chikugo City,
Fukuoka 833-0016, JAPAN
Phone +81-942-53-7510
FAX +81-942-52-8799
https://www.rocky-ichimaru.co.jp
Email info@ml.rocky-ichimaru.co.jp

<Sole Distributor>
RIX Corporation
1-15-15, Sanno, Hakata-ku
Fukuoka 812-8672, JAPAN
Phone +81-92-472-7311
FAX +81-92-472-7335
https://www.rix.co.jp

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