

Floatvalve Nylon seat BS 12114

Part one high pressure

FLOATVALVES to BS 12114

BS 12114 Part One. High Pressure. Nylon seat

Pattern Number	Size	Piston Material	Backnut Material	Seat Bore	Tail Length	Lever Length	Order Code
12114 N	½"	N	B	No 3 (1/8")	1¼"	8¾"	BR 4007
12114 N-Z	½"	N	N	No 3 (1/8")	1¼"	8¾"	BR 4017
12114 N-S	½"	N	B	No 5 (3/16")	1¼"	8¾"	BR 4018
12114 N-Y	½"	B	B	No 3 (1/8")	1¼"	8¾"	BR 4027
12114 N-X	½"	N	B	No 3 (1/8")	1¼"	10½"	BR 4037
12114 N-W	½"	N	B	No 3 (1/8")	17/8"	10½"	BR 4047
12114 N-V	½"	B	B	No 3 (1/8")	17/8"	10½"	BR 4057
12114 N-U	½"	N	B	No 3 (1/8")	2½"	10½"	BR 4067
12114 N	¾"	B	B	No 6 (1/4")	1¼"	13"	BR 4008
12114 N	1"	Bz	B	No 9 (3/8")	1½"	16"	BR 4009

BS 12114 Part One. Low Pressure. Nylon seat

12114 N	½"	B	B	No 9 (3/8")	1¼"	8¾"	BR 5007
12114 N-V	½"	B	B	No 9 (3/8")	17/8"	10½"	BR 5027
12114 N	¾"	B	B	No 13	1¼"	13"	BR 5008

Note: Shading denotes variation to standard
Specification key: B = Brass, N = Nylon, Bz = Bronze

FLOW RATE & SIZE SELECTION (gpm)

	Static Pressure		BS 12114 PART 1 Seat Bore Size			
	psi	Feet	1/3"	1/4"	3/8"	
LOW PRESSURE	0.5	1.15	0.20	0.82	1.84	3.38
	1.0	2.30	0.29	1.16	2.61	4.65
	2.0	4.60	0.41	1.65	3.69	6.57
	4.0	9.20	0.53	2.33	5.22	9.29
	7.0	16.10	0.77	3.08	6.90	12.30
	10.0	23.10	0.92	3.69	8.27	14.70
	15.0	34.60	1.13	4.52	10.10	18.00
	20.0	46.20	1.31	5.22	11.70	20.80
	25.0	57.70	1.46	5.82	13.00	23.20
	30.0	69.30	1.60	6.40	14.30	25.50
MEDIUM PRESSURE	35.0	80.80	1.73	6.90	15.50	27.50
	40.0	92.40	1.85	7.38	16.50	29.50
	50.0	115.00	2.06	8.24	18.50	32.80
	60.0	138.00	2.26	9.02	20.20	36.00
	70.0	161.00	2.44	9.74	21.80	38.80
	80.0	184.00	2.60	10.40	23.30	41.50
HIGH PRESSURE	90.0	207.00	2.76	11.00	24.70	44.00
	100.0	231.00	2.92	11.60	26.10	46.50
	110.0	254.00	3.06	12.20	27.40	48.80
	125.0	289.00	3.26	13.10	29.20	52.10
	150.0	346.00	3.58	14.30	32.00	57.10
	175.0	404.00	3.86	15.40	34.60	61.60
	200.0	462.00	4.13	16.50	37.00	65.90

MINIMUM OPERATING PRESSURE RATINGS

Size	Minimum Operating Pressure (bar)	Maximum Cold Working Pressure (bar)	Maximum Hot Working Pressure (bar)
	No minimum operating pressure	Temperatures up to 85°C	Not suitable for Maximum Hot Working pressure
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Flow Rate and Size Section Chart general Notes:

The discharge through a floatvalve is governed by the running pressure maintained at its inlet. In practice this is difficult to measure and so the tables shown indicate the 'estimated' flow rate in G.P.M. that will occur at various static heads for each size of floatvalve or for each size of seat in floatvalves that accept a variety of seat sizes. The flow rates quoted will only occur when the floatvalve is fully open and will reduce as the water level in the tank rises. Excessive pipe runs to the floatvalve will result in lower running pressures and thus reduced flow rates.

MATERIAL SPECIFICATION

Component	Material
Body	Brass
Body cap	Brass
Lever	Brass
Cotter pin	Brass
Lever nut	Brass
Body union nut	Brass
Tail pipe	Brass
Union nut washer	Fibre
Back nut washer/Spigot nut	Brass/Nylon
Seats	Nylon
Piston	Brass/Nylon
Piston washer	NBR
Cap seal	NBR