

NABIC®

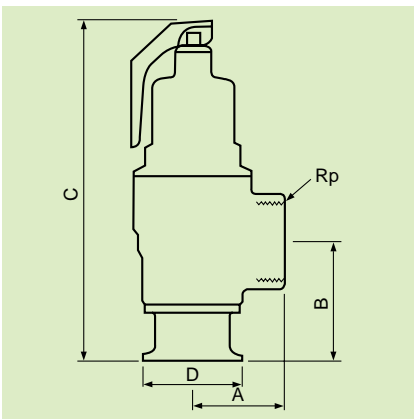
HIGH LIFT SAFETY VALVE STAINLESS STEEL WETTED PARTS

Fig 500ST



WETTED PARTS	: STAINLESS STEEL
BODY MATERIAL	: GUNMETAL
MAXIMUM SET PRESSURE	: 12.5 bar
MAXIMUM TEMPERATURE	: 195 deg.C

DIMENSIONS



SIZE DN	Rp BSP	A mm	B mm	C mm	D mm
15	3/4	34	46	141	50.5
20	1	39	54	159	50.5
25	1 1/4	46	63	183	50.5
32	1 1/2	54	68	228	64
40	2	64	81	271	64
50	2 1/2	76	95	315	77.5
65	3	90	110	380	91

APPLICATIONS

This version of the Fig 500 has been produced for applications where the properties of stainless steel are required for the service fluid being used but the working environment does not necessitate a full stainless steel valve. It can be supplied with a test lever or as a sealed dome version to suit customer requirements.

CONSTRUCTION

The main body of the valve is constructed from gunmetal with diaphragm protection of working parts. All wetted parts are manufactured in 316 stainless steel with PTFE to metal seating, viton available on request. The inlet connection is available as male screwed thread or hygienic clamp fitting to BS 4285, and the outlet connection is supplied female screwed as standard.

FEATURES

- RESILIENT PTFE SEATING DESIGN
- HIGH DEGREE OF SEAT TIGHTNESS
- EASY INSPECTION AND CLEANING
- TOP GUIDED WORKING PARTS
- PRESSURE SETTING LOCKED AND SEALED
- DESIGNED AND TESTED TO BS 6759
- CAPACITIES CERTIFIED BY AOTC

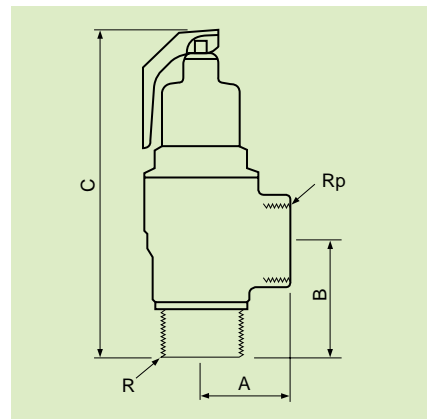
NABIC®

Fig 500SS



WETTED PARTS	: STAINLESS STEEL
BODY MATERIAL	: GUNMETAL
MAXIMUM SET PRESSURE	: 12.5 bar
MAXIMUM TEMPERATURE	: 195 deg.C

DIMENSIONS



SIZE DN	R BSPT	Rp BSP	A mm	B mm	C mm
15	3/4	3/4	34	46	141
20	1	1	39	54	159
25	1 1/4	1 1/4	46	63	183
32	1 1/2	1 1/2	54	68	228
40	2	2	64	81	271
50	2 1/2	2 1/2	76	95	315
65	3	3	90	110	380

DISCHARGE CAPACITIES

The discharge capacity of a safety valve must be equal to or greater than the output of the boiler or system it is protecting. Fig 500 capacities are tabulated below to assist selection.

WATER - 10% OVERPRESSURE							
SET PRESSURE BAR	litres/min						
	DN15	DN20	DN25	DN32	DN40	DN50	DN65
1.0	54	96	151	247	386	603	1019
2.0	77	136	213	349	546	853	1441
3.0	94	167	261	428	668	1044	1765
4.0	109	193	301	494	772	1206	2038
6.0	133	236	369	605	945	1477	2496
8.0	153	273	426	698	1091	1705	2882
10.0	172	305	477	781	1220	1906	3222
12.5	192	341	533	873	1364	2131	3602

To convert to galls/min multiply by 0.22.

The above discharge capacities have been calculated in accordance with BS 6759: Pt-1 using a derated coefficient of discharge (Kdr) of 0.345

STEAM - 10% OVERPRESSURE							
SET PRESSURE BAR	Kg/hr						
	DN15*	DN20	DN25	DN32	DN40	DN50	DN65
1.0	93	166	259	425	664	1037	1752
2.0	142	253	395	647	1011	1580	2670
3.0	191	340	531	870	1359	2123	3588
4.0	240	427	667	1092	1706	2666	4506
6.0	338	600	938	1537	2402	3753	6342
8.0	436	774	1210	1982	3097	4839	8178
10.0	533	948	1481	2427	3792	5925	10014
12.5	655	1165	1821	2983	4661	7283	12308

To convert to lb/hr multiply by 2.2

* The minimum bore size permitted by BS specifications for steam and hot water boilers is 20mm.

Capacities given for the smaller sizes in the above tables, are for applications outside the scope of these standards.

AIR - 10% OVERPRESSURE							
SET PRESSURE BAR	std. litres/sec						
	DN15	DN20	DN25	DN32	DN40	DN50	DN65
1.0	34	61	95	156	244	381	644
2.0	52	93	145	238	372	581	982
3.0	70	125	195	320	500	781	1319
4.0	88	157	245	401	627	980	1657
6.0	124	221	345	565	883	1380	2331
8.0	160	285	445	729	1138	1779	3006
10.0	196	349	545	892	1394	2178	3681
12.5	241	428	669	1097	1714	2677	4525

To convert to ft³/min multiply by 2.1

in the above two tables, the discharge capacities have been calculated in accordance with BS 6759, using a derated coefficient of discharge (Kdr) of 0.479, approved by AOTC.

NABIC[®]

NABIC VALVE SAFETY PRODUCTS LTD
 Stretford Road, Manchester, M16 9AR
 Tel: 0161 872 6941 Fax: 0161 872 4514
 Email: salesteam@brownall.co.uk Website: www.nabic.co.uk