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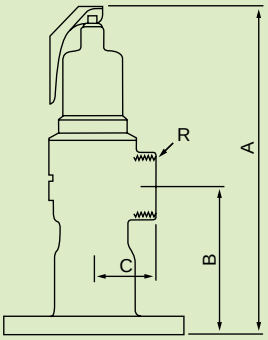
HIGH LIFT DOUBLE SPRING SAFETY VALVE

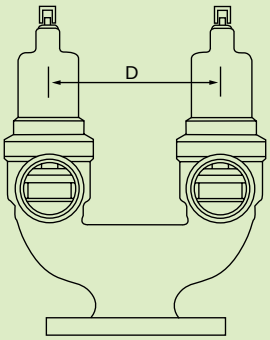
Fig 520

APPLICATIONS

The Fig 520 High Lift Safety Valve has been designed and tested to BS6759. Based on the proven design of the Fig 500 Safety Value, the high capacity and resilient PTFE seating make the Fig 520 ideal for steam, hot water, air and inert gas applications.

DIMENSIONS





SIZE DN	R BSP	A mm	B mm	C mm	D mm
65	2″	350	152	64	175
80	2½″	390	166	76	195
100	3″	480	205	90	210

BODY MATERIAL	: GUNMETAL
MAXIMUM SET PRESSURE	: 12.5 bar
MAXIMUM TEMPERATURE	: 195 deg C

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CONSTRUCTION

The Fig 520 is constructed in gunmetal, with diaphragm protected working parts and PTFE to metal seating. All wetted parts are manufactured from dezincification resistant materials, approved by the Water Regulations Advisory Scheme for use on potable water. Inlet connections are flanged and outlet connections have female threads to BS21.

FEATURES

- RESILIENT PTFE SEATING DESIGN
- HIGH DEGREE OF SEAT TIGHTNESS
- SUITABLE FOR HOT WATER, STEAM AND AIR
- HIGH DISCHARGE CAPACITY
- DIAPHRAGM PROTECTED WORKING PARTS
- SAFE MANUAL TESTING
- EASY INSPECTION AND CLEANING
- PRESSURE SETTING LOCKED AND SEALED
- DESIGNED AND TESTED TO BS 6759
- SEPARATE OUTLETS REDUCE EFFECTS OF BACKPRESSURE

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 520 capacities are tabulated below to assist selection.

HOT WATER - UNVENTED SYSTEM - 10% OVERPRESSURE			
SET PRESSURE BAR	kW		
	DN65	DN80	DN100
1.0	831	1299	2196
2.0	1267	1980	3347
3.0	1703	2660	4497
4.0	2138	3341	5647
5.0	2574	4021	6798
6.0	3009	4702	7948
7.0	3445	5382	9098
8.0	3880	6063	10249
10.0	4751	7424	12549
12.5	5840	9125	15425

To convert to Btu/hr multiply by 3400

The capacities tabulated are for unvented (pressurised or sealed) heating systems.

STEAM - 10% OVERPRESSURE			
SET PRESSURE BAR	kg/hr		
	DN65	DN80	DN100
1.0	1327	2073	3504
2.0	2022	3159	5340
3.0	2717	4245	7176
4.0	3412	5331	9012
5.0	4107	6417	10847
6.0	4802	7503	12683
7.0	5497	8589	14519
8.0	6192	9675	16354
10.0	7582	11847	20026
12.5	9320	14562	24615

To convert to lb/hr multiply by 2.2

AIR - 10% OVERPRESSURE			
SET PRESSURE BAR	std. litres/sec		
	DN65	DN80	DN100
1.0	488	762	1288
2.0	743	1161	1963
3.0	999	1561	2638
4.0	1254	1960	3313
5.0	1510	2359	3988
6.0	1765	2758	4662
7.0	2021	3157	5337
8.0	2276	3557	6012
10.0	2787	4355	7362
12.5	3426	5353	9049

To convert to ft^3/min multiply by 2.1

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

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