



Our high quality, cost effective Series 1100 valves are designed for dosing pumps and skids, but are equally suited to other loading or relief functions. The valves are available in a breadth of sizes with standard options for all applications.

Manufactured in a wide variety of materials, the Series 1100 valves can be configured for all liquid types and are able to deal with large capacity flow rates. Spare kits are available for the whole series and valves can have factory pre-set pressures at no extra cost.

To choose the valve for your application use the valve specifier overleaf or contact our technical team for assistance.

- 2D dimensional drawings and 3D CAD models available for download from Technical Data Page on website
- 3.1 for metal valves and test certificates are available
- 1100 valves comply with PED 2014/68/EU & UKCA

	# Max allowable pressure @ 20°C
Plastic bonnet [with plastic or metal body]	
3/8" - 1 1/2"	16 Bar
2"	12 Bar
Metal bonnet	24 Bar (with metal body only)

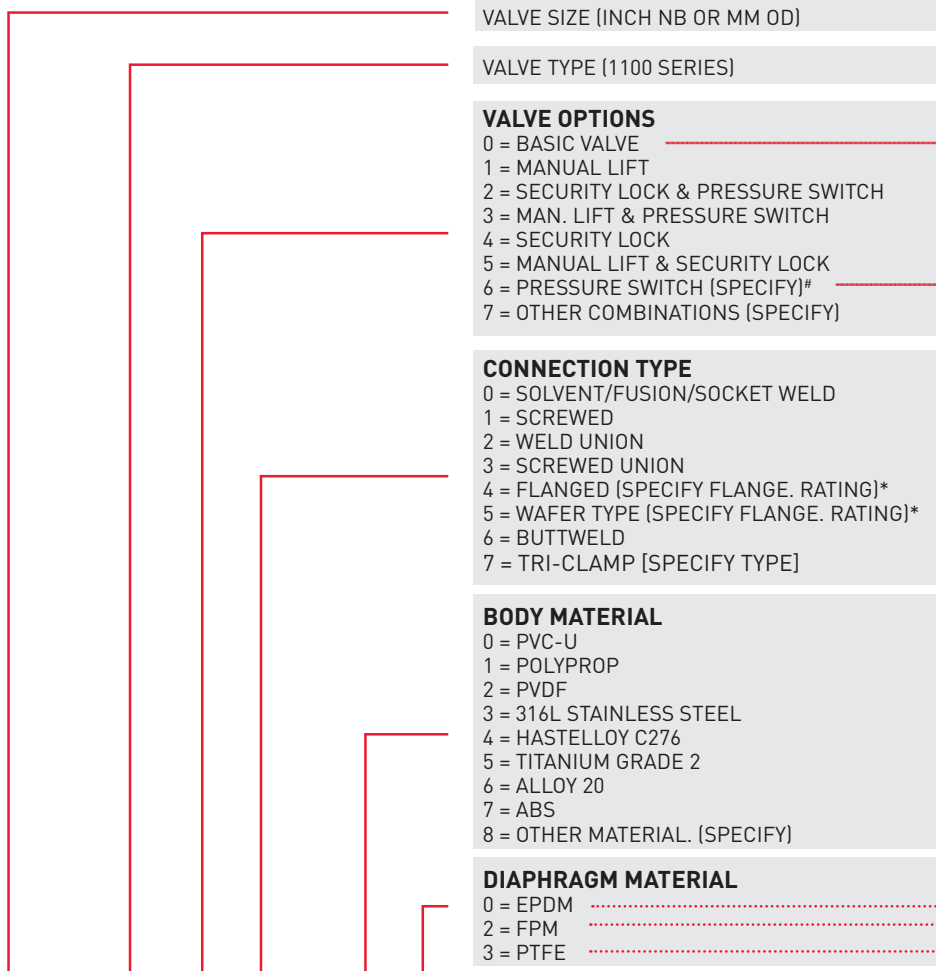
Bonnet Material	Max operating temperature (based on bonnet construction)
PVC	60°C
Polypropylene	90°C
Stainless steel	90°C with EPDM diaphragms
Stainless steel	140°C with FPM or PTFE diaphragms

Sizes			Pulsed flow rate	Damped /smooth flow rate	Adjustment range			
					Std relief	Std loading	HP relief *	HP loading
OD (mm)	DN	NB	L/Hr	L/Hr	BarG	BarG	BarG	BarG
16	10	3/8"	200	400	0 - 10	0 - 3	0 - 26	0 - 7
20	15	1/2"	375	750	0 - 10	0 - 3	0 - 26	0 - 7
25	20	3/4"	625	1250	0 - 10	0 - 3	0 - 26	0 - 7
32	25	1"	1000	2000	0 - 10	0 - 3	0 - 28	0 - 7
40	32	1 1/4"	1500	3000	0 - 10	0 - 3	0 - 22	0 - 6
50	40	1 1/2"	2000	4000	0 - 10	0 - 3	0 - 22	0 - 5
63	50	2"	3000	6000	0 - 10	0 - 3	0 - 16	0 - 5
63 duplex	50 duplex	2" duplex	6000	12000	0 - 10	0 - 3	0 - 16	0 - 5

\* This is the range achievable with the high pressure spring fitted and when the adjuster screw is screwed fully down, the valve will not gag. Valve should not be set to exceed maximum allowable pressure as above #.

# HOW TO SPECIFY YOUR VALVE:

# SPARES KITS:



**X - 11 X X - X X - XX - XXX - XXXX**

**x -11 x 0 - x - SK**

<p><b>DUP</b> Duplex Valve</p> <p><b>DTX</b> DTX Solvent Weld (uPVC only)</p>	<p><b>DIN</b> # DIN Pressure Switch</p> <p><b>NC</b> Normally Closed Pressure Switch</p> <p><b>NO</b> Normally Open Pressure Switch</p>	<p><b>NPT</b> NPT Connections</p> <p><b>PPC</b> Protective Port Caps</p>	<p><b>150</b> Ansi 150 lb flange</p> <p><b>300</b> Ansi 300 lb flange</p> <p><b>PN16</b> EN1902-1 PN16, PN25,PN40 flange</p>	<p><b>*</b></p> <p><b>BRPP</b> Polyprop Coated Backing Rings</p> <p><b>MH</b> Mounting holes for switched version only</p>
<p><b>CPS</b> Stainless Steel Cap</p> <p><b>PDB</b> PVDF Bonnet</p> <p><b>PPB</b> Polypropylene Bonnet</p> <p><b>SB4</b> 304L Stainless Steel Bonnet</p> <p><b>SB6</b> 316L Stainless Steel Bonnet</p>	<p><b>AJM</b> Mild Steel Adjuster Screw</p> <p><b>AJPE</b> PTFE Adjuster Screw</p> <p><b>AJPP</b> Polypropylene Adjuster Screw</p> <p><b>AJS</b> 316L Stainless Steel Adjuster Screw</p>	<p><b>PPH</b> Hastelloy Pressure Pad</p> <p><b>PPS</b> 316 Stainless Steel Pressure Pad</p> <p><b>PPT</b> Titanium Pressure Pad</p> <p><b>PPP</b> PTFE Pressure Pad</p>	<p><b>HP</b> Higher Pressure Spring</p> <p><b>HPS</b> Higher Pressure Silver Plated Spring</p> <p><b>SS</b> Silver Plated Spring</p> <p><b>SP</b> 316 Stainless Steel Spring</p>	

## EXAMPLE VALVES:

1" - 1104-33-150-SB4 - 1" 1100 SERIES BASIC VALVE, FLANGED 150lb CONNECTION, 316 L S/STL BODY, PTFE COATED DIAPHRAGM, 304 STAINLESS STEEL BONNET

20-1102-02-NC - 20MM 1100 SERIES BASIC VALVE, PLAIN SOCKET WELD UNION CONNECTION, PVC BODY, FPM DIAPHRAGM, NORMALLY CLOSED PRESSURE SWITCH

## EXAMPLE SPARES KITS:

1"-1100-2-SK 1100 SERIES BASIC VALVE SPARES KIT WITH FPM DIAPHRAGM FOR SIZE 1"/32mm

1/2"-1160-0-SK 1100 SERIES BASIC VALVE SPARES KIT INCLUDING BOTH MAIN & SWITCH DIAPHRAGM IN EPDM FOR SIZE 1/2"/20mm & 3/8"/16mm

## 1100 VALVES HAVE THE FOLLOWING COMPONENTS AS STANDARD:

3/8" & 1/2" - Polyprop bonnet, adjuster screw & pressure pad, 302 stainless spring.  
 3/4" - 2" - PVC-U bonnet & adjuster screw, steel pressure pad & carbon steel spring.  
 Plastic flanged valves are stub flanged with 316L stainless steel backing rings.