



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)

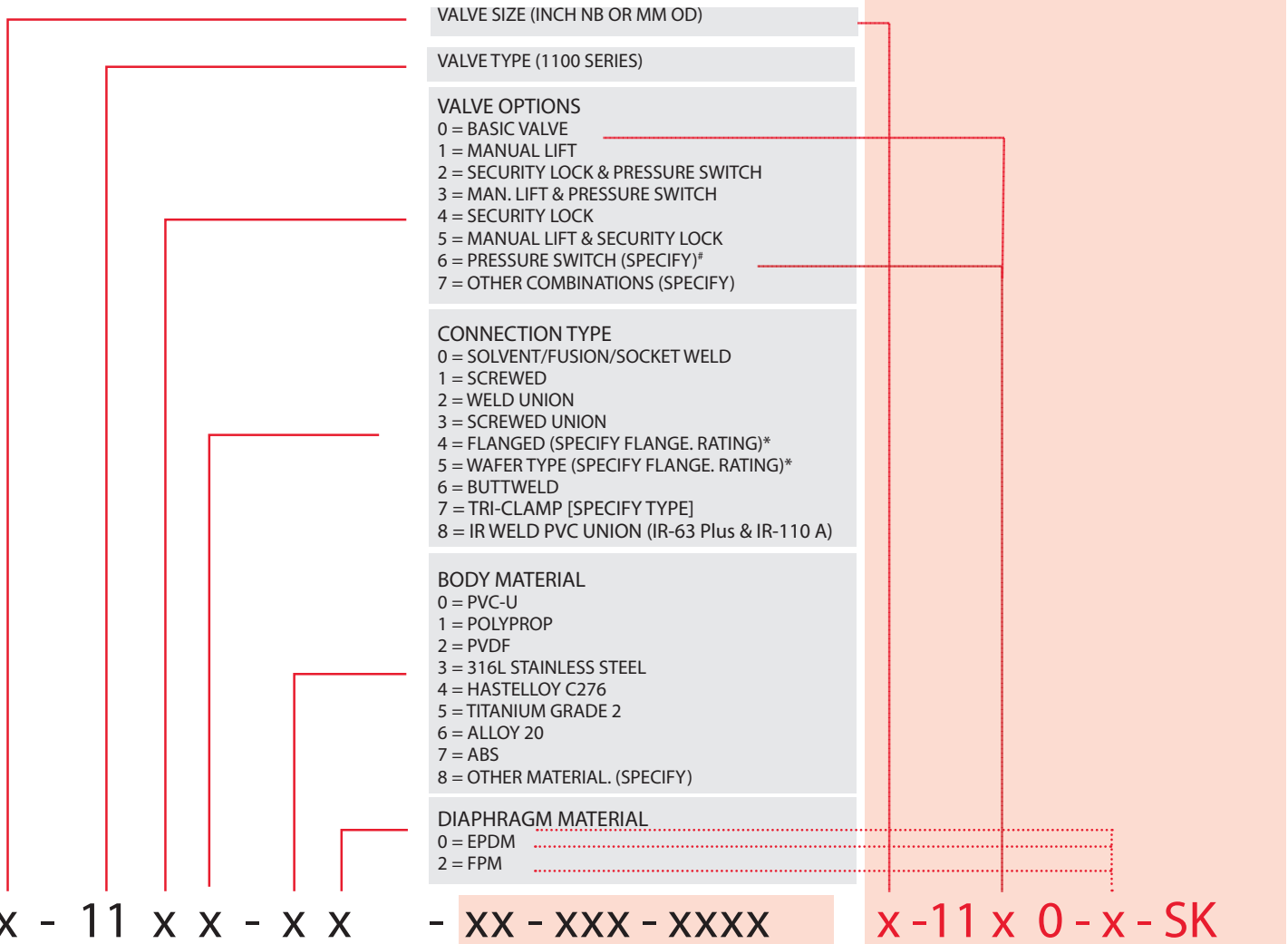
Bonnet Material	Max operating temperature (based on bonnet construction)
PVC	60°C
Polypropylene	90°C
Stainless steel	90°C with EPDM diaphragms
Stainless steel	140°C with FPM or PTFE diaphragms

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:



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

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

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.

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