

# Series 1100 Pressure Relief & Loading valves



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]
<sup>3</sup> ⁄8″ - 1½″	16 Bar
2″	12 Bar
Metal bonnet	24 Bar (with metal body only)

			Pulsed	Demand	Adjustment range			
	Sizes			Damped /smooth flow rate	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 ¼″	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 acheivable 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 #.



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	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

### ΗΟΜ/ΤΟ SPECIEV VOLID VALVE

## CDADEC VITC.

HOW TO SPECIFY YOUR VALVE:			SPARES KITS:		
	VALVE SIZE (INCH NB OR N	/M OD)			
	VALVE TYPE (1100 SERIES)				
	VALVE OPTIONS 0 = BASIC VALVE 1 = MANUAL LIFT 2 = SECURITY LOCK & PRE: 3 = MAN. LIFT & PRESSURE 4 = SECURITY LOCK 5 = MANUAL LIFT & SECUF 6 = PRESSURE SWITCH (SP 7 = OTHER COMBINATION	e Switch Rity Lock Pecify)*			
	CONNECTION TYPE 0 = SOLVENT/FUSION/SOC 1 = SCREWED 2 = WELD UNION 3 = SCREWED UNION 4 = FLANGED (SPECIFY FLI 5 = WAFER TYPE (SPECIFY 6 = BUTTWELD 7 = TRI-CLAMP [SPECIFY 8 = IR WELD PVC UNION	ANGE. RATING)* FLANGE. RATING)* TYPE]			
	BODY MATERIAL 0 = PVC-U 1 = POLYPROP 2 = PVDF 3 = 316L STAINLESS STEEL 4 = HASTELLOY C276 5 = TITANIUM GRADE 2 6 = ALLOY 20 7 = ABS 8 = OTHER MATERIAL. (SPE				
x - 11 x x - x	DIAPHRAGM MATERIAL 0 = EPDM 2 = FPM 3 = PTFE		1 x 0 - x - SK		
X - 11 X X - X	x - xx - xxx				
DUP DIN Duplex Valve DIN Pressur DTX NC DTX Solvent Weld Normally Cl (uPVC only) NO Normally O Pressure Sw	osed PPC Protective Port Caps pen	1502Ansi 150 lb flange300Ansi 300 lb flangePN16EN1902-1 PN16,PN25,PN40 flange	<ul> <li>BRPP Polyprop Coated Backing Rings</li> <li>MH Mounting holes for switched version only</li> </ul>		
CPS Stainless Steel Cap PDB PVDF Bonnet PPB Polypropylene Bonnet SB4 304L Stainless Steel Bonnet	AJM Mild Steel Adjuster Screw AJPE PTFE Adjuster Screw AJPP Polypropylene Adjuster Screw AJS 316L Stainless Steel Adjuster	PPH Hastelloy Pressure Pad PPS 316 Stainless Steel Pressure Pad PPT Titanium Pressure Pad PPP	HP Higher Pressure Spring HPS Higher Pressure Silver Plated Spring SS Silver Plated Spring SP 316 Stainless Steel Spring		
SB6 316L Stainless Steel Bonnet	Screw	PTFE Pressure Pad			

#### 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 DI-APRHRAGM 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