



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 are in compliance with PED 2014/68/EU

| | # 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) |

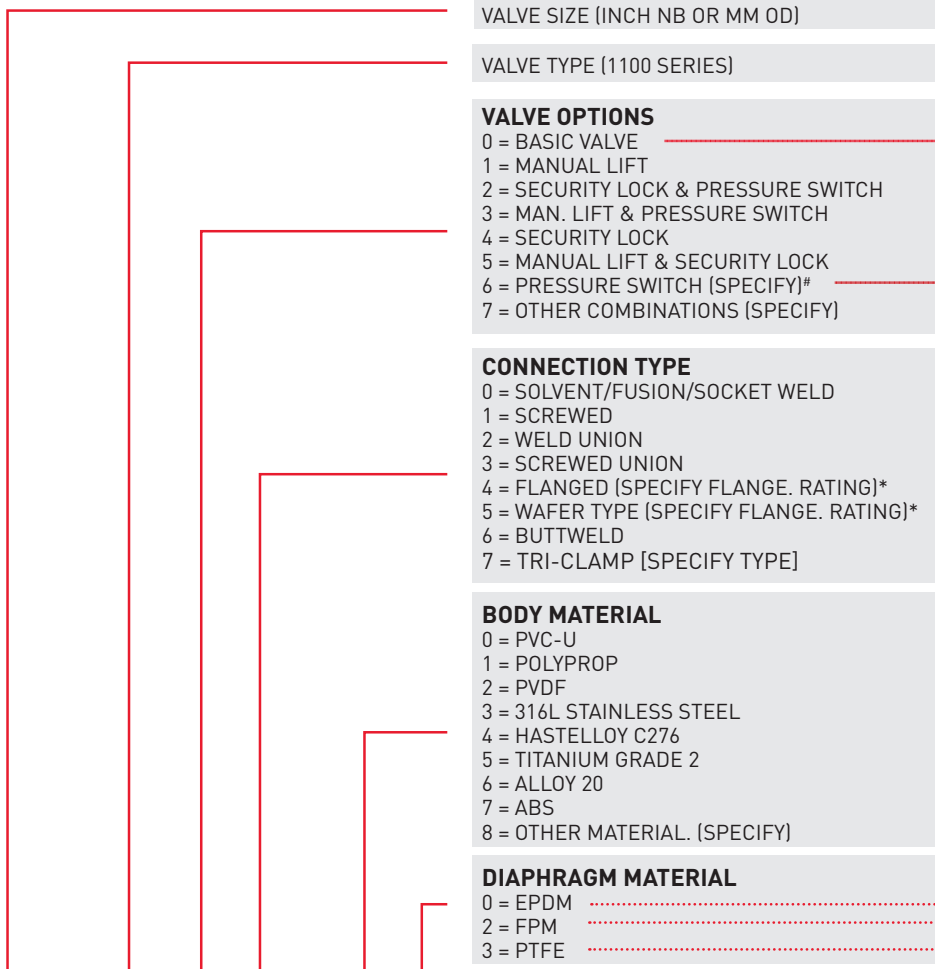
| Bonnet Material | Max operating temperature (based on bonnet construction) |
|-----------------|--|
| PVC | 60°C |
| Polypropylene | 90°C |
| Stainless steel | 90°C with EPDM diaphragms |
| Stainless steel | 140°C with FPM or PTFE diaphragms |

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