



# CABLE GLAND

## TYPE VBL 453 FLAMEPROOF



### SPECIFICATION

|                         |  |
|-------------------------|--|
| Application             | Outdoor and indoor. For use with lead sheathed single wire armour, elastomer or plastic insulated cables.  |
| Specification           | In accordance with the relevant requirements of BS 6121 type E2FW and BS 5501 parts 1,5 (EN 50014, EN 50018, IEC 60079-0, IEC 60079-1)   |
| Approval                | Suitable for use in Group IIA, IIB, and IIC<br>Suitable for use in Zone 1, and Zone 2.   |
| Function                | I ) provides for armour clamp.<br>II ) provides an electrical bond on lead sheath of cable<br>III ) provides seal on inner sheath of cable   |
| Seals                   | The inner seal complies with the pressure test of 30 BAR (450 psi) for two minutes.  |
| Marking/certificate No. | Ex d IIC IP66/ BAS Ex 98D 1230   |
| Ingress protection      | IP 66 to IEC 60529   |
| Material                | Brass/Stainless Steel  |
| Finish                  | This gland can be coated or plated to suit the application.  |
| Accessories             | Shroud for additional protection against onerous weather conditions.   |
| ( Optional )            | Sealing Washer for IP66 rating between gland and the equipment.<br>Earth Tag to ensure earth continuity between the gland and the equipment.<br>Locknut to secure the gland to the equipment where entry hole is not tapped. |

| Gland Size ref. | 'M' Entry thread sizes |           |         |                             | 'U' Thread Length |          |            |              | P    | **<br>Across flats | **<br>Across corners | Cable acceptance details |        |                          |        | Standard Steel wire armour R |
|-----------------|------------------------|-----------|---------|-----------------------------|-------------------|----------|------------|--------------|------|--------------------|----------------------|--------------------------|--------|--------------------------|--------|------------------------------|
|                 | Metric                 | Imp* (in) | PG      | BSPP*<br>BSPT*<br>NPT* (in) | Metric Imp PG     | BSPP     | BSPT       | NPT          |      |                    |                      | Diameter of Inner sheath |        | Diameter of outer sheath |        |                              |
|                 |                        |           |         |                             |                   |          |            |              |      |                    |                      | N Min.                   | N Max. | O Min.                   | O Max. |                              |
| O               | 16/20                  | 3/4       | 11/13.5 | 1/2                         | 15                | 15       | 18.6       | 19.9         | 58.7 | 25                 | 27.7                 | 7.5                      | 9      | 10.5                     | 16.0   | 0.9 / 1.25                   |
| A               | 20                     | 3/4       | 16      | 1/2<br>3/4                  | 15                | 15       | 18.6<br>20 | 19.9<br>20.2 | 57.8 | 30                 | 34.6                 | 8.3                      | 11.6   | 12.9                     | 20.5   | 0.9 / 1.25                   |
| B               | 25                     | 1         | 21      | 3/4<br>1                    | 15                | 15       | 20<br>20   | 20.2<br>23.7 | 62.5 | 36                 | 41.6                 | 11.5                     | 16.6   | 17.0                     | 26.5   | 1.25 / 1.6                   |
| CS              | 32                     | 1 1/4     | 29      | 1<br>1 1/4                  | 15                | 20       | 23.7<br>26 | 25<br>25.6   | 65.9 | 46                 | 53.1                 | 15.0                     | 18.3   | 25.0                     | 33.3   | 1.6 / 2.0                    |
| C               | 32                     | 1 1/4     | 29      | 1<br>1 1/4                  | 15                | 20       | 23.7<br>26 | 25<br>25.6   | 73.8 | 46                 | 53.1                 | 19.3                     | 22.8   | 25.0                     | 33.3   | 1.6 / 2.0                    |
| C2s             | 40                     | 1 1/2     | 36      | 1 1/4<br>1 1/2              | 15                | 20       | 26<br>26   | 25.6<br>26   | 73.8 | 55                 | 63.5                 | 20.0                     | 24.8   | 33.0                     | 42.0   | 1.6 / 2.0                    |
| C2              | 40                     | 1 1/2     | 36      | 1 1/4<br>1 1/2              | 15                | 20       | 26<br>26   | 25.6<br>26   | 82.3 | 55                 | 63.5                 | 25.0                     | 28.8   | 33.0                     | 42.0   | 1.6 / 2.0                    |
| Ds              | 50                     | 2         | 42/48   | 2                           | 15                | 20<br>20 | 30.3       | 26.9         | 82.3 | 65                 | 75.1                 | 32.0                     | 34.3   | 39.5                     | 52.0   | 2.0 / 2.5                    |
| D               | 50                     | 2         | 42/48   | 2                           | 15                | 20<br>20 | 30.3       | 26.9         | 83.1 | 65                 | 75.1                 | 34.0                     | 40.0   | 39.5                     | 52.0   | 2.0 / 2.5                    |
| Ess             | 63                     | 2 1/2     | -       | 2 1/2                       | 15                | 20<br>20 | 30.6       | 39.9         | 83.1 | 80                 | 92.4                 | 40.0                     | 42.8   | 52.0                     | 64.8   | 2.5                          |
| Es              | 63                     | 2 1/2     | -       | 2 1/2                       | 15                | 20<br>20 | 30.6       | 39.9         | 83.1 | 80                 | 92.4                 | 42.0                     | 46.8   | 52.0                     | 64.8   | 2.5                          |
| E               | 63                     | 2 1/2     | -       | 2 1/2                       | 15                | 20<br>20 | 30.6       | 39.9         | 83.1 | 80                 | 92.4                 | 46.0                     | 51.8   | 52.0                     | 64.8   | 2.5                          |

Dimensions in millimeters( except \*)

#### Notes:

\* The dimension of cable may vary with manufacturing tolerances. We do advise the actual cable diameter is measured where possible before purchasing Cable Glands.

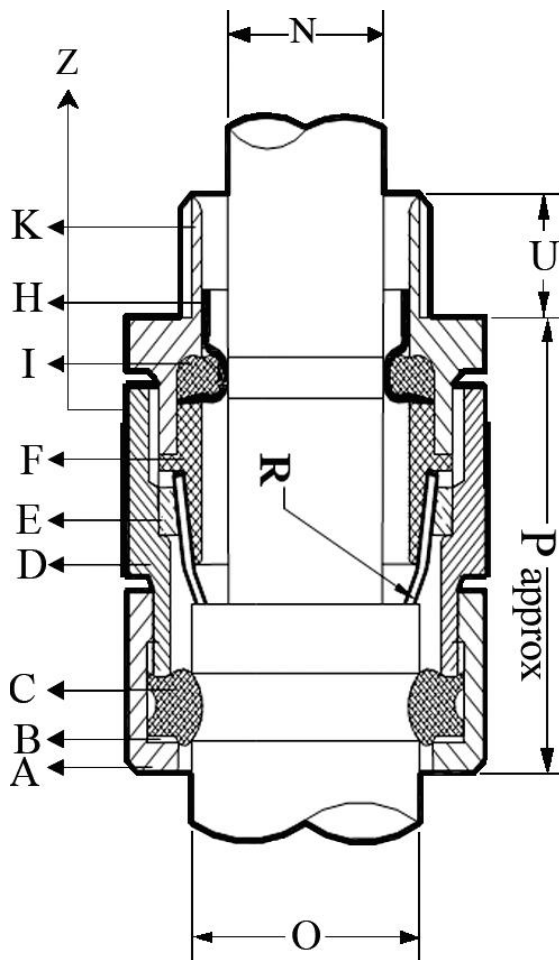
The recommendations here are given in good faith but SHOMAL can not be held liable for mistakes in selection however caused.

\*\* This dimension is the minimum acceptable

All information may be revised or changed by SHOMAL at anytime without prior notice or explanation.

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## TYPE VBL 453 FLAMEPROOF



- A : TAIL NUT
- B : SKID WASHER
- C : OUTER SEAL
- D : COMPRESSION NUT
- E : ARMOUR CLAMP RING
- F : ARMOUR CLAMP
- H : LEAD SEAL
- I : INNER SEAL
- K : ENTRY ADAPTOR

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