

AUDCO SLIMSEAL BUTTERFLY VALVES



Experience In Motion

AUDCO SLIMSEAL is a Wafer type Butterfly Valve with an integrally moulded elastomer body liner. Designed to outperform loose liners, SLIMSEAL's elastomer liner is moulded directly in the body bore and vulcanised in-situ, making it last the entire life of the valve. The result - a valve that requires no form of maintenance. A perfect FIT AND FORGET valve.

AUDCO SLIMSEAL is available in different combinations of body, liner and disc materials to suit a wide range of line fluids, a size range of 50 to 600 mm, and a pressure rating up to PN 16. This permits its use in a wide range of applications making AUDCO SLIMSEAL a truly versatile valve.

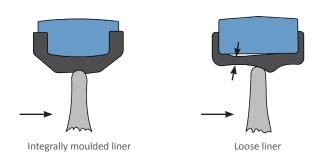
ADVANTAGES OF INTEGRALLY MOULDED LINER

LONGER VALVE LIFE

Integral moulding permits maximising the use of plasticiser in elastomer formulation. This ensures a smooth surface, thereby reducing friction between the disc and liner. In-situ vulcanisation imparts greater strength to the liner. Reduced friction and high strength of the seat extend valve life.

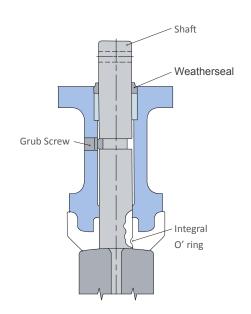
SUPERIOR SEATING

SLIMSEAL's integrally moulded body liner is not subjected to stretching, which is the cause for fatigue in loose-lined elastomers. Fatigue in elastomer results in excessive wear and subsequent tearing of the liner. A torn liner can be easily swept into the line causing extensive damage to expensive down-stream equipment. Though in valves with loose liners the seat can be replaced, by the time it is done the line fluid would have caused some corrosion to the valve body. This causes imperfect seating of the new liner, resulting in leakages. These drawbacks are eliminated in SLIMSEAL's integrally moulded liner design.



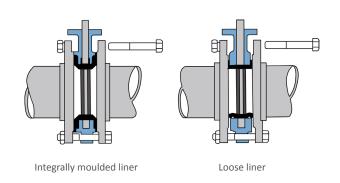
STEM SEALING

In SLIMSEAL Valves the body liner incorporates flats at the top and the bottom where the shaft passes through, providing a wide sealing area. The secondary sealing is by two 'O' rings that are moulded at the top and bottom of the seat, which get compressed around the shaft. A weatherseal at the top of the shaft prevents any ingress of foreign material into the valve.

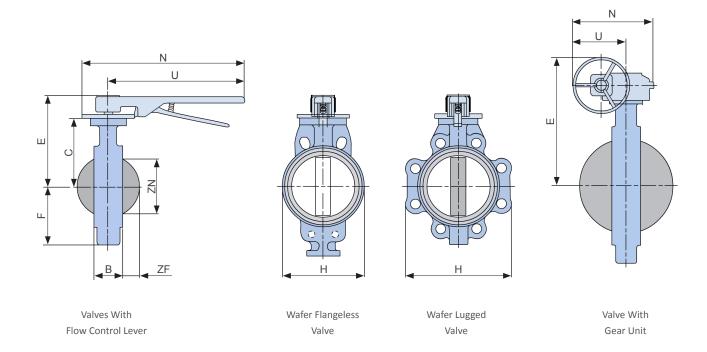


EASY INSTALLATION

SLIMSEAL has a gasket integral to the body which eliminates the need for a separate gasket between the valve face and companion flange. In addition, as the liner is bonded to the body, it will not hang out or get pinched during installation. Damage to expensive replaceable seats is thereby eliminated.



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DIMENSIONS (mm)

| | Valve size | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |
|------------------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | В | | 46 | 46 | 52 | 56 | 56 | 60 | 68 | 78 | 92 | 102 | 114 | 127 | 154 |
| | С | 99 | 110 | 116 | 134 | 164 | 177 | 235 | 259 | 284 | 318 | 370 | 410 | 448 | 509 |
| | Flow Control Lever | 125 | 140 | 146 | 174 | 204 | 217 | 302 | 326 | 351 | - | - | - | - | - |
| Е | Standard Gear Unit | 228 | 239 | 245 | 263 | 293 | 306 | 429 | 453 | 478 | 512 | - | - | - | - |
| | Heavy Duty Gear Unit | - | - | - | - | - | - | 451 | 476 | 501 | 535 | 587 | 790 | 828 | 889 |
| | F | 65 | 78 | 85 | 105 | 118 | 144 | 169 | 214 | 249 | 342 | 377 | 447 | 485 | 556 |
| Н | Wafer Flangeless | 103 | 110 | 130 | 161 | 193 | 220 | 273 | 328 | 378 | 438 | 489 | 532 | 589 | 695 |
| П | Wafer Lugged | 121 | 135 | 180 | 208 | 238 | 261 | 322 | 394 | 462 | 525 | 595 | 647 | 721 | 845 |
| | Flow Control Lever | 320 | 320 | 320 | 320 | 320 | 320 | 619 | 619 | 619 | - | - | - | - | - |
| N | Standard Gear Unit | 193 | 193 | 193 | 193 | 193 | 193 | 300 | 300 | 300 | 300 | - | - | - | - |
| | Heavy Duty Gear Unit | - | - | - | - | - | - | 375 | 375 | 375 | 375 | 375 | 552 | 552 | 552 |
| | Flow Control Level | 268 | 268 | 268 | 268 | 268 | 268 | 508 | 508 | 508 | - | - | | - | - |
| U | Standard Gear Unit | 132 | 132 | 132 | 132 | 132 | 132 | 217 | 217 | 217 | 217 | - | - | - | - |
| | Heavy Duty Gear Unit | - | - | - | - | - | - | 255 | 255 | 255 | 255 | 255 | 437 | 437 | 437 |
| | ZN | 27 | 47 | 63 | 83 | 107 | 136 | 185 | 234 | 280 | 325 | 376 | 424 | 476 | 573 |
| | ZF | 4 | 10 | 16 | 23 | 32 | 45 | 67 | 88 | 106 | 123 | 144 | 163 | 183 | 220 |
| H .W.Di | a-Standard Gear Unit | 152 | 152 | 152 | 152 | 152 | 152 | 300 | 300 | 300 | 300 | - | - | - | - |
| H.W.Dia-Heavy Duty Gear Unit | | - | - | - | - | - | - | 300 | 300 | 300 | 300 | 300 | 578 | 578 | 578 |

APPROXIMATE WEIGHT (kgs)

| Flow Control Lever - Flangeless | 3.6 | 3.9 | 4.6 | 6.8 | 9.5 | 11.6 | 26.5 | 34.5 | 46.0 | - | - | - | - | - |
|----------------------------------|------|-------|------|------|-------|------|------|------|------|-------|-------|-------|-------|-------|
| Flow Control Lever - Lugged | 4.9 | 5.6 | 7.6 | 10.4 | 13.5 | 15.6 | 34.0 | 47.5 | 61.2 | - | - | - | - | - |
| Standard Gear Unit- Flangeless | 11.3 | 11 .6 | 12.3 | 14.5 | 17 .2 | 19.3 | 28.0 | 36.0 | 47.5 | 72.0 | - | - | - | - |
| Standard Gear Unit-Lugged | 12.6 | 13.3 | 15.3 | 18.1 | 21.2 | 23.3 | 35.5 | 49.0 | 62.7 | 95.0 | - | - | - | - |
| Heavy Duty Gear Unit- Flangeless | - | - | - | - | - | - | 46.0 | 54.0 | 65.5 | 90.0 | 115.5 | 146.0 | 181.5 | 261.0 |
| Heavy Duty Gear Unit - Lugged | - | - | - | - | - | - | 53.5 | 67.0 | 80.7 | 113.0 | 157.0 | 204.0 | 260.0 | 391.0 |

Note: 450 mm to 600 mm wafer flangeless bodies have lugs near the top and bottom shaft areas. Unless specified by the customer, lugs are tapped as per ASME B16.1 CLASS 125 / ASME 16.5 CLASS 150 (UNC) as shown in dotted lines. For more details contact Flowserve India Controls Pvt Ltd.



MATERIAL SPECIFICATION

| Name of Part | Ma | aterial of Construct | ion | | | |
|---|--|-------------------------------------|---|--|--|--|
| Body | Cast Iron to BS 1452 Gr 250 | SG Iron to BS 2789 Gr 420/12 | CS to ASTM A216 Gr WCB | | | |
| Body Liner | Black Nitrile (WRC approved) | | | | | |
| Disc | SG Iron to BS 2789 Gr 420/12 with nylon coating | Al. Bronze to BS 1400 Gr. AB2 | SS to ASTM A351 Gr. CF8/ CF8M edge polished. | | | |
| Shaft | AISI 410 PTFE coated | | | | | |
| Bearings 50-300 mm 350 - 600 rnrn | Acetal Phosphor Bronze | | | | | |
| Flow Control Lever | SG Iron / Steel | | | | | |

For other materials of body and disc, contact Flowserve India Controls Pvt Ltd.

TORQUE DATA (Line Pressure 16 bar)

| Valve Size (mm) | Torque Nm |
|--------------------|--------------|
| 50 | 12 |
| 65 | 20 |
| 80 | 27 |
| 100 | 41 |
| 125 | 62 |
| 150 | 93 |
| 200 | 182 |
| 250 | 279 |
| 300 | 318 |
| 350 | 514 |
| 400 | 925 |
| 450 | 1192 |
| 500 | 1506 |
| 600 | 3029 |

Torque figures indicated are the maximum torque under static condition and do not include any safety factor. During operator I actuator selection suitable factor of safety is to be considered taking into account fluid parameters. Torque figures are at the top shaft of the valve.

STANDARDS

| Valve Design | API609 - L MSS SP67 - B ISO 5752 - N | ug and Wafer to utterfly valves Metal valves for | Butterfly valves ype Butterfly Valves use in flanged pipe face and centre to face | | | | | | | |
|---------------------|--|--|---|--|--|--|--|--|--|--|
| | d | dimensions | | | | | | | | |
| | | BS EN 593 | - Wafer Short | | | | | | | |
| | 50mm to | API 609 | - Category A | | | | | | | |
| | 300mm | MSS SP-67 | - Narrow Body | | | | | | | |
| Installed | | ISO 5752 | - Short | | | | | | | |
| Face to Face | | BS EN 593 | - Wafer Medium | | | | | | | |
| dimension | 350mm to | API 609 | - Category A | | | | | | | |
| | 600mm | | (Except DN 350) | | | | | | | |
| | | MSS SP-67 | - Wide Body | | | | | | | |
| | | ISO 5752 | - Medium | | | | | | | |
| Pressure testing | | EN 12266-1 | L Part I | | | | | | | |

The valves have been designed to fit without gaskets between flanges drilled to BS 10 Tables D & E, ASME B16.1/B16.5 Class 150, DIN ND 10/16, BS 4504 PN 10/16, IS 6418 Tables 6 to 9 or IS 6392 Tables 10 to 20.

For mounting with any other flanges contact Flowserve India Controls Pvt Ltd. Lugged valves are provided with tapped holes as per ANSI BI6.1 Cl.I25 (UNC) unless otherwise specified.

Body top platform drilled to ISO 5211 to facilitate direct mounting of actuators and gear units. Contact Flowserve India Controls Pvt Ltd. for shaft top end details for bare shaft valves.

TEST PRESSURE - Bar

| Seat | Working | Test Pressures | | | | | |
|----------|----------|----------------|------|--|--|--|--|
| Seat | Pressure | Body/Disc | Seat | | | | |
| BLACK | | | | | | | |
| NITRILE/ | 16 | 24 | 17.6 | | | | |
| EPDM | | | | | | | |

OPERATION

SLIMSEAL Valves are offered with a choice of operators like Flow Control Lever, Standard Gear Unit or Heavy Duty Gear Unit as given below:

| Operator Type | Model | Size Range (mm) | | |
|-----------------------------------|-------|--------------------|--|--|
| Flow Control Lever | - | 50 to 300 | | |
| Standard Manager to the Cook Heit | G50 | 50 to 150 | | |
| Standard Worm type Gear Unit | SRI00 | 200 to 350 | | |
| Harris Dut Warra Carallait | 27M7 | 200 to 400 | | |
| Heavy Duty Worm Gear Unit | G400 | 450 to 600 | | |

Heavy duty gear units are supplied for valves to be fitted with electric actuators. Vertical Gear Units for valves in size 50 to 150 mm could be offered as an option.

ACCESSORIES

SLIMSEAL Butterfly valves can be supplied with factory fitted pneumatic, hydraulic or electric actuators along with other accessories such as limit switches, manual overrides, positioners etc. to form a complete flow control package.

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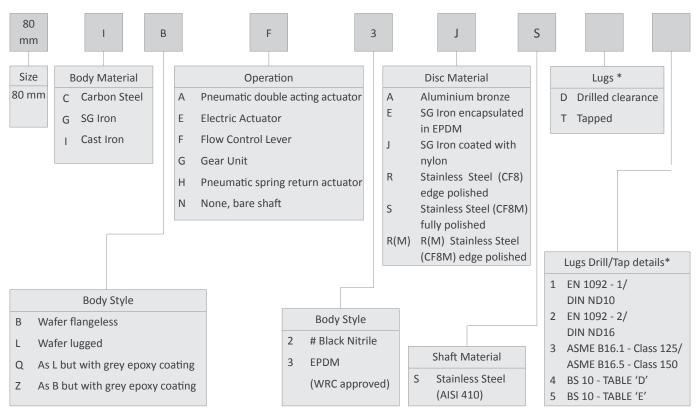
MATERIALS AND APPLICATIONS

| General Applications | Continuous V Temperature | <u> </u> | Maximum Working Pressure | Disc Material | Seat Material |
|---|--|--|--------------------------------|------------------------------------|------------------------|
| Oils, Fuels, Water, Air, Gases | Hydrocarbons (Except Aromatics) Other Liquids Dry Service | - 10°C to 90°C - 10°C to 80°C - 10°C to 65°C | 16 bar | Nylon Coated SG Iron | # Black Nitrile |
| Brines, Sea Water, Estuary Water, | Liquids | - 10°C to 80°C | 16 bar | Aluminium Bronze | # Black Nitrile |
| Steam, Water, Hot Gases, Powders, Slurries and aqueous slurries of an / abrasive nature | Liquids Dry Services | - 10°C to 120°C - 10°C to 100°C | 16 bar | Stainless Steel periphery polished | EPDM (WRC approved) |

[#] For applications below 5°C, Special Nitrile rubber to be used.

MATERIALS AND APPLICATIONS

A familiarity with our Catalogue number is not necessary when specifying or ordering our valves. If full description of the valve could be provided we will translate this into a catalogue number formulated as per the following system:



^{*} For lugged valves only

Butterfly valves for corrosive chemical services with internals of Hypalon and Viton are available as AUDCO CHEMSEAL Valves. Butterfly valves for clean services with internals of WRC approved EPDM and white nitrile are available as AUDCO CLEANSEAL valves. Please refer to Chemseal / Cleanseal Catalogues.

As we continuously endeavour to improve our products, the data given herein are subject to change.



Wafer Type Butterfly Valves

For Corrosive Applications

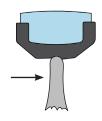
AUDCO CHEMSEAL is a wafer type butterfly valve specifically designed for corrosive services. The body liner is formulated from Hypalon which is a synthetic elastomer having a chemical inertness very close to that of PTFE, but at the same time having the resilience of rubber. This design eliminates contact of the valve body and shaft from the line media. These valves find application on lines carrying aqueous acids, alkali solutions and majority of inorganic salts. The valve has a coating of epoxy paint capable of withstanding corrosive atmospheres.

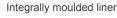
LONGER VALVE LIFE

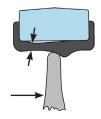
Integral moulding permits maximising the use of plasticiser in elastomer formulation. This ensures a smooth surface, thereby reducing friction between the disc and liner. In-situ vulcanisation imparts greater strength to the liner. Reduced friction and high strength of the seat extend valve life.

SUPERIOR SEATING

CHEMSEAL's integrally moulded body liner is not subjected to stretching, which is the cause for fatigue in elastomers. Fatigue in elastomer results in excessive wear and subsequent tearing of the liner. Atom liner can be easily swept into the line and cause extensive damage to costly down stream equipment. Though in a loose liner valve, the liner can be replaced, by the time it is done, the line fluid would have caused some corrosion to the valve body. This causes imperfect sealing of the new liner resulting in leakages. These drawbacks are eliminated in the CHEMSEAL's integrally moulded liner design.







Loose liner

MATERIAL SPECIFICATION

| Name of Part | Material of Construction | | | | | | | |
|--------------|---|---|--|--|--|--|--|--|
| Body | Cast Iron to BS 1452 Gr 250 SG Iron to BS 2789 Gr 420/12 | | | | | | | |
| Body Liner | Hypalon | Viton. | | | | | | |
| Disc | SG Iron to BS 2789 Gr 420/12 fully encapsulated with Hypalon/Viton rubber. | Stainless Steel to ASTM A351 Gr. CF8/CF8M edge polished. | | | | | | |
| Shaft | AISI 410 PTFE coated. | | | | | | | |

For other materials of body & disc, contact Flowserve India Controls Pvt Ltd.

STANDARDS

Valves Design: EN 593, API609, MSS SP 67 and ISO 5752

Pressure Testing: BS 6755 Part 1

Pipe Flange : To suit BS 10 Tables D & E, ASME B16.1/ B16.5 Class 150, DIN ND 10/16, BS 4504 PN Standards

10/16, IS 6418 Tables 6 to 9 or IS 6392

Tables 10 to 20.

For mounting with any other flanges contact Flowserve India Controls Pvt Ltd. Lugged valves are provided with tapped holes as per ANSI B16.1 CL. 125 (UNC) unless otherwise specified.

TEST PRESSURE - Bar

| Liner | Temperature | Working | Test Pressures | | | |
|----------|-------------|----------|----------------|------|--|--|
| Material | (Max.) | Pressure | Body/Disc | Seat | | |
| Hypalon | 70°C | 12 | 18 | 13.2 | | |
| Viton | 150°C | 12 | 18 | 13.2 | | |

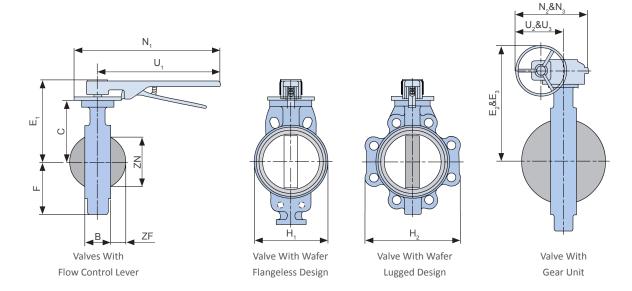
STEM SEALING

In the CHEMSEAL valves the rubber liner incorporates flats at the top and the bottom where the shaft passes through, providing a wide sealing area. The secondary sealing is by two 'O' rings that are moulded at the top and bottom of the seat, which get compressed around the shaft. A weatherseal at the top of the shaft prevents any ingress of foreign material into the valve.



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DIMENSIONS (mm)



| Valve size | В | С | E ₁ | E ₂ | E ₃ | F | H ₁ | H ₂ | N ₁ | N ₂ | N ₃ | U ₁ | U ₂ | U ₃ | ZN | ZF |
|------------|----|-----|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|
| 50 | 43 | 99 | 139 | 277 | - | 65 | 103 | 121 | 320 | 242 | - | 268 | 181 | - | 27 | 4 |
| 65 | 46 | 110 | 150 | 288 | - | 78 | 110 | 135 | 320 | 242 | - | 268 | 181 | - | 47 | 10 |
| 80 | 46 | 116 | 156 | 294 | - | 85 | 130 | 180 | 320 | 242 | - | 268 | 181 | - | 63 | 16 |
| 100 | 52 | 134 | 174 | 312 | - | 105 | 161 | 208 | 320 | 242 | - | 268 | 181 | - | 83 | 23 |
| 125 | 56 | 164 | 204 | 342 | - | 118 | 193 | 238 | 320 | 242 | - | 268 | 181 | - | 107 | 32 |
| 150 | 56 | 177 | 217 | 355 | - | 144 | 220 | 261 | 320 | 242 | - | 268 | 181 | - | 136 | 45 |
| 200 | 60 | 235 | - | 417 | 451 | 169 | 273 | 322 | - | 248 | 375 | - | 187 | 255 | 185 | 67 |
| 250 | 68 | 259 | - | 441 | 476 | 214 | 328 | 394 | - | 248 | 375 | - | 187 | 255 | 234 | 88 |
| 300 | 78 | 284 | - | 466 | 501 | 249 | 378 | 462 | - | 248 | 375 | - | 187 | 255 | 280 | 106 |

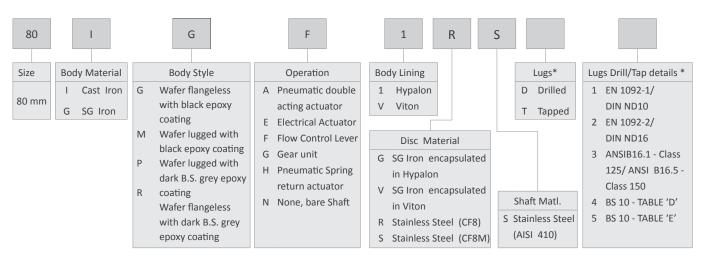
 $E_1/N_1/U_1$ - Flow Control Lever

 $\rm E_{\rm 2}/\rm \,N_{\rm 2}/\rm \,U_{\rm 2}$ - Standard Gear Unit

 $E_3/N_3/U_3$ - Heavy Duty Gear Unit

Gear units indicated above are applicable only for valves with stainless steel discs. In the case of valves with Hypalon/ Viton encapsulated SG Iron discs, the torque values are higher; for such application please contact Flowserve India Controls Pvt Ltd. for the selection of Gear unit.

A familiarity with our **Catalogue Number** is not necessary when specifying or ordering our valves. If full description of the valve could be provided we will translate this into a catalogue number formulated as per the following system:



^{*} For lugged valves only

As we continuously endeavour to improve our products, the data given herein are subject to change.



Wafer Type Butterfly Valves

Hygienic Applications

AUDCO CLEANSEAL is a wafer type butterfly valve specifically designed for hygienic services. The body seat is formulated from food grade EPDM or white Nitrile rubber, both synthetic elastomers which do not impart any toxic substance, colour, odour or flavour to the line media. This design eliminates contact of the valve body and shaft from the line media. These valves find application on Hygienic lines in food, dairy, beverages, pharmaceutical and other related industries. The valve has a white epoxy paint for providing corrosion resistance. These valves are available in a size range of 50 to 300mm and maximum pressure rating of 16 bar for EPDM and 14 bar for White Nitrile.

SELF DRAINING AND CAVITY FREE

The CLEANSEAL valve design incorporates a crevice free construction, which is a pre-requisite for valves to be used on hygienic services. A smoothly streamlined elastomer lining with a fully polished stainless steel disc ensures that there are no dead pockets or crevices in the valve. The body seat and disc of the CLEANSEAL are contoured in such a way that it is impossible for any line media to remain stagnant inside the valve. The wiping action of the disc ensures that the seat is always maintained clean.

SUPERIOR SEATING

CLEANSEAL's integrally moulded seats are not subjected to stretching unlike valves with a loose liner seat. This is because integral moulding literally makes the seat an integral part of the body. This design eliminates the possibility of the seat developing cracks or crevices.

FULLY ISOLATED VALVE INTERNALS

In the CLEANSEAL valves, the rubber liner incorporates flats at the top and the bottom where the shaft passes through, providing a wide sealing area. This ensures the line fluid does not enter the stem area and get contaminated. The secondary sealing is by two 'O' rings that are moulded at the top and bottom of the seat, which get compressed around the shaft.

WEATHERSEAL FEATURE

A weatherseal at the top of the shaft prevents any ingress of foreign material into the valve. This prevents absolutely any contamination of the line media by external means.

MATERIAL SPECIFICATION

| Name of Part | Material of Construction |
|--------------|--|
| Body | Cast Iron to BS 1452 Gr 250 |
| Бойу | SG Iron to BS 2789 Gr 420/12 |
| Body Liner | Tasteless EPDM/White Nitrile |
| Disc | Fully polished Stainless Steel to ASTM A 351 Gr. CF8M |
| Shaft | AISI 410 PTFE coated for permanent dry |
| Silait | lubrication. |

For other materials of body & elise, contact Flowserve India Controls Pvt Ltd.

STANDARDS

Valves Design : EN 593, API 609, MSS SP 67 and IS05752

Pressure Testing : BS 6755 Part 1

Pipe Flange : To suit BS 10 Tables D&E, ANSI 125/

Standards 150, DIN ND 10/16, BS 4504 PN 10/16, IS

6418 Tables 6 to 9 or IS 6392 Tables

10 to 20.

For mounting with any other flanges contact Flowserve India Controls Pvt Ltd. Lugged valves are provided with tapped holes as per ASME B16.1/B16.5 Class 150

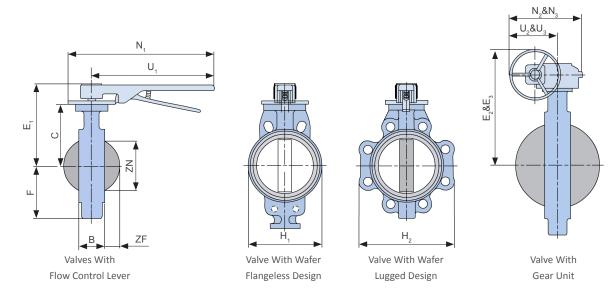
(UNC) unless otherwise specified

TEST PRESSURE

| Liner | Service | Temp. range | Test Pressures | | | | |
|---------------|----------|-----------------|----------------|------|--|--|--|
| Material | Jei vice | Terrip. range | Body/Disc | Seat | | | |
| EPDM | Liquids | - 10°C to 100°C | | | | | |
| (Tasteless) | Dry | - 10°C to 100°C | 21 | 15.4 | | | |
| White Nitrile | Liquids | - 10°C to 80°C | 21 | 15.4 | | | |
| | Dry | - 10°C to 65.°C | | | | | |



DIMENSIONS (mm)



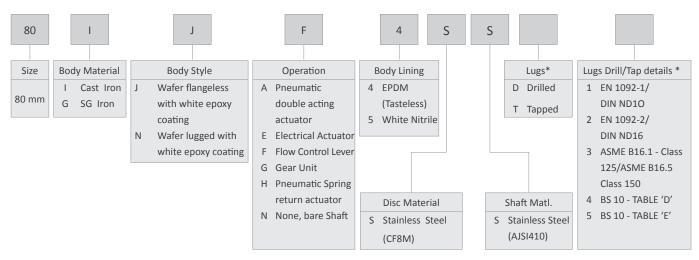
| Valv size | В | С | E ₁ | E ₂ | E ₃ | F | H ₁ | H ₂ | N ₁ | N ₂ | N ₃ | U ₁ | U ₂ | U ₃ | ZN | ZF |
|-----------|----|-----|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|
| 50 | 43 | 99 | 139 | 277 | - | 65 | 103 | 121 | 320 | 242 | - | 268 | 181 | - | 27 | 4 |
| 65 | 46 | 110 | 150 | 288 | - | 78 | 110 | 135 | 320 | 242 | - | 268 | 181 | - | 47 | 10 |
| 80 | 46 | 116 | 156 | 294 | - | 85 | 130 | 180 | 320 | 242 | - | 268 | 181 | - | 63 | 16 |
| 100 | 52 | 134 | 174 | 312 | - | 105 | 161 | 208 | 320 | 242 | - | 268 | 181 | - | 83 | 23 |
| 125 | 56 | 164 | 204 | 342 | - | 118 | 193 | 238 | 320 | 242 | - | 268 | 181 | - | 107 | 32 |
| 150 | 56 | 177 | 217 | 355 | - | 144 | 220 | 261 | 320 | 242 | - | 268 | 181 | - | 136 | 45 |
| 200 | 60 | 235 | - | 417 | 451 | 169 | 273 | 322 | - | 248 | 375 | - | 187 | 255 | 185 | 67 |
| 250 | 68 | 259 | - | 441 | 476 | 214 | 328 | 394 | - | 248 | 375 | - | 187 | 255 | 234 | 88 |
| 300 | 78 | 284 | - | 466 | 501 | 249 | 378 | 462 | - | 248 | 375 | - | 187 | 255 | 280 | 106 |

 $E_1/N_1/U_1$ - Flow Control Lever

 $E_2/N_2/U_2$ - Standard Gear Unit

 $E_3/N_3/U_3$ - Heavy Duty Gear Unit

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^{*} For lugged valves only

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