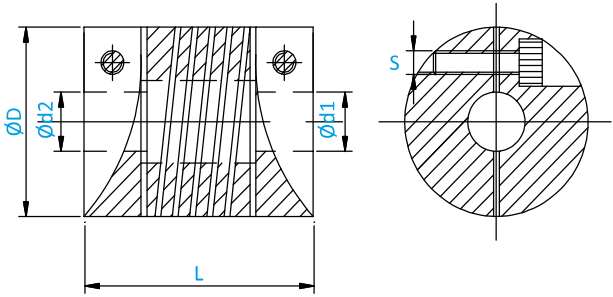


## Technical Details

| Size<br>O.D.<br>mm | Rated<br>Torque<br>Nm | Max.          | Shaft       | Misalignment      | Torsional<br>Spring Rate<br>Ncm/rad | Clamping Screw<br>Tightening Torque<br>Ncm |
|--------------------|-----------------------|---------------|-------------|-------------------|-------------------------------------|--------------------------------------------|
|                    |                       | Lateral<br>mm | Axial<br>mm | Angular<br>Degree |                                     |                                            |
| 14                 | 0.5                   | 0.15          | 0.15        | 3                 | 475                                 | 50                                         |
| 16                 | 0.60                  | 0.15          | 0.15        | 3                 | 575                                 | 50                                         |
| 20                 | 1.4                   | 0.2           | 0.2         | 5                 | 1250                                | 100                                        |
| 25                 | 2.5                   | 0.2           | 0.2         | 5                 | 1675                                | 100                                        |
| 32                 | 7                     | 0.25          | 0.25        | 5                 | 2000                                | 200                                        |
| 35                 | 8.5                   | 0.25          | 0.25        | 5                 | 2250                                | 200                                        |
| 40                 | 11                    | 0.25          | 0.25        | 5                 | 2500                                | 400                                        |
| 50                 | 25                    | 0.25          | 0.25        | 5                 | 3000                                | 400                                        |



### AF TYPE COUPLING

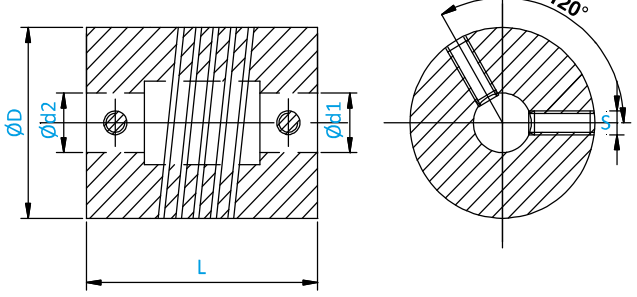


| Outer Dia. | Length | d1 and d2 H7 mm | Clamping |
|------------|--------|-----------------|----------|
| D          | L      | Min.-Max.       | Screw S  |
| 14         | 20     | 2.00-4.00       | M2.5     |
| 16         | 24     | 3.00-6.00       | M2.5     |
| 20         | 28     | 4.00-10.00      | M3       |
| 25         | 32     | 5.00-11.00      | M3       |
| 32         | 40     | 8.00-12.00      | M4       |
| 35         | 40/50  | 10.00-17.00     | M5       |
| 40         | 50     | 11.00-20.00     | M5       |
| 50         | 50/60  | 12.00-25.00     | M6       |

### AS TYPE COUPLING



| Outer Dia. | Length | d1 and d2 H7 mm | Clamping |
|------------|--------|-----------------|----------|
| D          | L      | Min.-Max.       | Screw S  |
| 14         | 20     | 2.00-4.00       | M3       |
| 16         | 24     | 3.00-8.00       | M3       |
| 20         | 28     | 4.00-11.00      | M4       |
| 25         | 32     | 5.00-12.70      | M4       |
| 32         | 40     | 8.00-15.00      | M4       |
| 35         | 40/50  | 10.00-20.00     | M5       |
| 40         | 50     | 11.00-25.00     | M5       |
| 50         | 50/60  | 12.00-30.00     | M6       |



### AF TYPE :

AF type means, clamping with allen screw. This type is also called as Clamping Hub type clamping arrangement. This gives full surface grip with shaft and the chances of slipping are very less. We normally recommend this type of clamping.

### AS TYPE :

AS type means, the clamping with set screw. This type is also called as Set Screw type clamping arrangement. This type of clamping gives Point contact with shaft and the chances of slipping are more. We recommend this type of clamping only for D shape shafts.

## MANUFACTURER OF PUFlex GS COUPLING

### HUB DETAILS :

PUFLEX GS sizes from 9 to 55 are made from Aluminium Alloy or Alloy Steel material.

PUFLEX GS hubs are manufactured with high precision machining. The jaws are machined with concave shape and entry chamfer for easy assembly. The concave shape in jaws of hub and the convex shape on the polyurethane spider allows for better angular, parallel, and axial misalignment.



These hubs are available in un-bored, pilot bore, finish bore & with keyways, and with different styles of clamping arrangements as per customer requirements.

### SPIDER DETAILS :

PUFLEX GS spiders are manufactured from high grade polyurethane.

PUFLEX GS are available in three different hardness as 80 Shore A, 92 Shore A and 98 Shore A. This different hardnesses are made available to suit different applications.

The details are as below.

| Spider Type    | Colour | Material     | Temperature Range ° C |                  | Available sizes | Application                        |
|----------------|--------|--------------|-----------------------|------------------|-----------------|------------------------------------|
| Shore Hardness |        |              | Normal Working        | Maximum          |                 |                                    |
| 80 Shore A     | Blue   | Polyurethane | from -50 to +80       | from -60 to +120 | PUFlex 5 to 24  | Low torque, more misalignment      |
| 92 Shore A     | Yellow | Polyurethane | from -40 to +90       | from -50 to +120 | PUFlex 5 to 55  | Medium torque, medium misalignment |
| 98 Shore A     | Red    | Polyurethane | from -30 to +90       | from -40 to +120 | PUFlex 5 to 55  | More torque, less misalignment     |

## PUFLEX GS COUPLING

**PUFLEX GS** couplings are the three piece assembly of 2 no. Aluminium Alloy or Steel hubs and one Special Grade Polyurethane Spider. These three pieces are co-axially and with certain positive pre-stress are assembled to complete the PUFLEX GS coupling. After assembly these couplings becomes sufficient flexible, backlash-free, positive motion and power transmitting fail safe coupling elements. Due to polyurethane spider, both the metallic hubs are separated from each other to avoid there physical contact. This helps to avoid the electrical and frequency isolation of both the connected driver and driven elements.

### APPLICATIONS:

Shaft Encoders, Tacho-generators, Servo Motors, Stepper Motors, Ball-screws, CNC machines, X-Y slides, Medical Equipment's, Precise Spindles, and much more precise backlash-free motion and power transmission applications.

### BENEFITS:

Flexible, Backlash-free, No maintenance, No Lubrication, Failsafe, Uniform & Positive motion and power transmission, Electrical and frequency isolation, Available in Unbored, pilot bore and finish bore and key-ways.

Hub Material : Aluminium / Steel

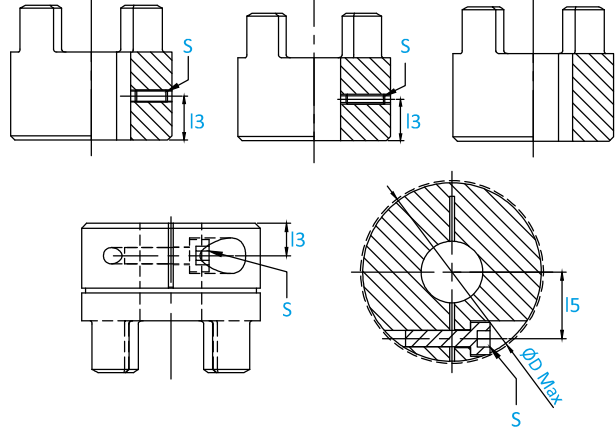
Spider material : Polyurethane.

Bore Tolerance : H7 by default. Other Tolerance and Keyways are available on request.

**Ordering Code** : PUFlex GS 00 Bore XX-YY

00 : Size of Coupling

XX and YY : Both side Inner Diameters.



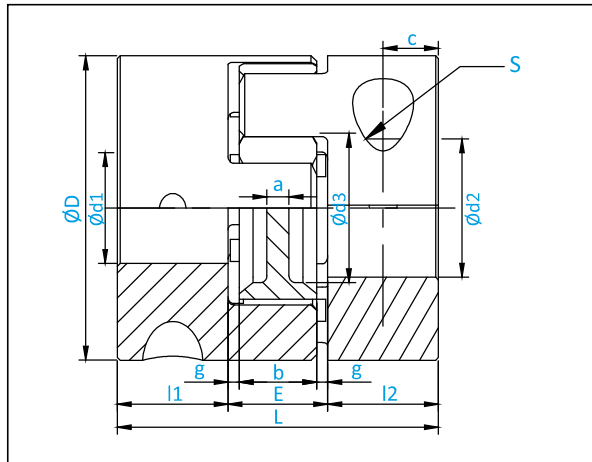
### DIMENSIONAL DETAILS :

| Size<br>PUFflex<br>GS | Bore sizes mm |         |          | Overall Dimensions |        |        |         |            |        |           |             | Set Screw Type |           | Clamping Hub Type |           |             | Screw      |                      |
|-----------------------|---------------|---------|----------|--------------------|--------|--------|---------|------------|--------|-----------|-------------|----------------|-----------|-------------------|-----------|-------------|------------|----------------------|
|                       | Minimum       | Maximum |          | Outer              | Spider | Total  | Hub     | Space Betn | Spider | Isolation | Spider Wall | Screw          | Distance  | Screw             | Distance  | Distance    | Max.       | Tightening<br>Torque |
|                       | Set Screw     |         | Clamping | Dia.               | I.D.   | Length | Length  | Hubs       | Width  | Gap       | Thickness   | Size           | from edge | Size              | from edge | from Centre | Dia.       |                      |
|                       | d1            | d2      | d2       | D                  | d3     | L      | l1 & l2 | E          | b      | g         | a           | S              | l3        | S                 | l4        | l5          | Dmax<br>mm | Ts Nm                |
| 7                     | 3             | 7       | 7        | 14                 | -      | 22     | 7       | 8          | 6      | 1         | 6           | M3             | 3.5       | M2                | 3.5       | 5           | 16.5       | 0.37                 |
| 9                     | 4             | 11      | 9        | 20                 | 7      | 30     | 10      | 10         | 8      | 1         | 1.5         | M4             | 5         | M3                | 5         | 7.5         | 23.4       | 1.5                  |
| 12                    | 4             | 12      | 12       | 25                 | 8.5    | 34     | 11      | 12         | 10     | 1         | 3.5         | M4             | 5         | M3                | 5         | 9           | 27.5       | 1.5                  |
| 14                    | 5             | 16      | 14       | 30                 | 10.5   | 35     | 11      | 13         | 10     | 1.5       | 2           | M4             | 5         | M4                | 5         | 11.5        | 32.2       | 1.5                  |
| 19                    | 8             | 24      | 19       | 40                 | 18     | 66     | 25      | 16         | 12     | 2         | 3           | M5             | 10        | M6                | 11        | 14.5        | 45.5       | 10.5                 |
| 24                    | 8             | 28      | 24       | 55                 | 27     | 78     | 30      | 18         | 14     | 2         | 3           | M5             | 10        | M6                | 12        | 20          | 56.4       | 10.5                 |
| 28                    | 10            | 38      | 28       | 65                 | 30     | 90     | 35      | 20         | 15     | 2.5       | 4           | M6             | 15        | M8                | 14        | 25          | 72.6       | 25                   |
| 38                    | 12            | 45      | 38       | 80                 | 38     | 114    | 45      | 24         | 18     | 3         | 4           | M8             | 15        | M8                | 20        | 30          | 83.3       | 25                   |
| 42                    | 14            | 50      | 42       | 95                 | 46     | 126    | 50      | 26         | 20     | 3         | 4           | M8             | 20        | M10               | 20        | 32          | 94         | 69                   |
| 48                    | 15            | 55      | 48       | 105                | 51     | 140    | 56      | 32         | 28     | 3.5       | 4           | M8             | 20        | M12               | 22        | 36          | 105        | 120                  |
| 55                    | 22            | 70      | 55       | 120                | 60     | 160    | 65      | 30         | 22     | 4         | 4.5         | M10            | 20        | M12               | 25        | 42.5        | 120        | 120                  |

### TECHNICAL DETAILS :

| Size<br>PUFlex<br>GS | Spider   | Rated  | Max RPM   |          | Dynamic Torsional | Radial    | Max. Shaft Misalignment |        |          | Weight | Moment of |
|----------------------|----------|--------|-----------|----------|-------------------|-----------|-------------------------|--------|----------|--------|-----------|
|                      | Hardness | Torque | Set Screw | Clamping | Stiffness         | Stiffness | Axial                   | Radial | Angular  |        | Inertia   |
|                      | Shore A  | Nm     |           | Hub      | Nm/rad            | N/mm      | mm                      | mm     | ° degree | Kg     | Kgcm²     |
| 7                    | 80       | 0.7    | 34100     | 27000    | 26                | 114       | +0.6 to -0.3            | 0.15   | 1.1      | 0.007  | 0.0018    |
|                      | 92       | 1.2    |           |          | 43                | 219       |                         | 0.1    | 1        |        |           |
|                      | 98       | 2      |           |          | 69                | 421       |                         | 0.06   | 0.9      |        |           |
| 9                    | 80       | 1.8    | 23800     | 19000    | 52                | 125       | +0.8 to -0.4            | 0.19   | 1.1      | 0.019  | 0.0057    |
|                      | 92       | 3      |           |          | 95                | 262       |                         | 0.13   | 1        |        |           |
|                      | 98       | 5      |           |          | 155               | 518       |                         | 0.08   | 0.9      |        |           |
| 12                   | 80       | 3      | 19100     | 15200    | 252               | 274       | +0.9 to -0.4            | 0.2    | 1.1      | 0.04   | 0.0314    |
|                      | 92       | 5      |           |          | 482               | 470       |                         | 0.14   | 1        |        |           |
|                      | 98       | 9      |           |          | 718               | 846       |                         | 0.08   | 0.9      |        |           |
| 14                   | 80       | 4      | 15900     | 12700    | 180               | 153       | +1.0 to -0.5            | 0.21   | 1.1      | 0.05   | 0.062     |
|                      | 92       | 7.5    |           |          | 344               | 336       |                         | 0.15   | 1        |        |           |
|                      | 98       | 12.5   |           |          | 513               | 604       |                         | 0.09   | 0.9      |        |           |
| 19                   | 80       | 4.9    | 11900     | 9550     | 1030              | 582       | +1.2 to -0.5            | 0.15   | 1.1      | 0.16   | 0.155     |
|                      | 92       | 10     |           |          | 1720              | 1120      |                         | 0.1    | 1        |        |           |
|                      | 98       | 17     |           |          | 2580              | 2010      |                         | 0.06   | 0.9      |        |           |
| 24                   | 92       | 35     | 8850      | 6950     | 4296              | 1480      | +1.4 to -0.5            | 0.14   | 1        | 0.33   | 1.60      |
|                      | 98       | 60     |           |          | 6189              | 2560      |                         | 0.1    | 0.9      |        |           |
| 28                   | 92       | 95     | 7350      | 5850     | 6876              | 1780      | +1.5 to -0.7            | 0.11   | 1        | 0.56   | 3.80      |
|                      | 98       | 160    |           |          | 10314             | 3200      |                         | 0.08   | 0.9      |        |           |
| 38                   | 92       | 190    | 5950      | 4750     | 13752             | 2350      | +1.8 to -0.7            | 0.17   | 1        | 1.10   | 10.00     |
|                      | 98       | 325    |           |          | 21486             | 4400      |                         | 0.12   | 0.9      |        |           |
| 42                   | 92       | 265    | 5000      | 4000     | 14490             | 2430      | +2.0 to -1.0            | 0.19   | 1        | 1.85   | 22.50     |
|                      | 98       | 450    |           |          | 48000             | 5570      |                         | 0.14   | 0.9      |        |           |
| 48                   | 92       | 310    | 4550      | 3600     | 18055             | 2580      | +2.1 to -1.0            | 0.23   | 1        | 2.50   | 46.00     |
|                      | 98       | 525    |           |          | 55925             | 5930      |                         | 0.16   | 0.9      |        |           |
| 55                   | 92       | 410    | 3950      | 3150     | 21850             | 2980      | +2.2 to -1.0            | 0.24   | 1        | 4.10   | 85.25     |
|                      | 98       | 685    |           |          | 59500             | 6686      |                         | 0.17   | 0.9      |        |           |

**MANUFACTURER OF PUFlex GS COMPACT COUPLINGS**



Hub Material : Aluminium  
 Spider material : Polyurethane.  
 Bore Tolerance : H7 by default. Other Tolerance and Keyways are available on request.

**Ordering Code** : PUFlex GS 00 Compact Bore XX-YY  
**00** : Size of Coupling  
**XX and YY** : Both side Inner Diameters.

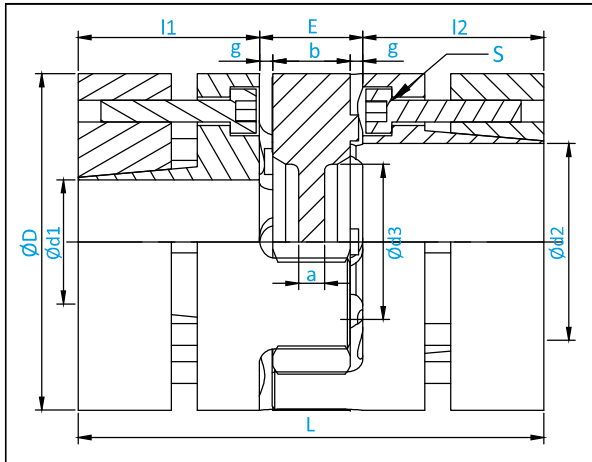
**DIMENSIONAL DETAILS :**

| Size | Bore sizes mm |      | Overall Dimensions mm |              |           |            |                             |              |               |                       | Clamping Screw |                   |
|------|---------------|------|-----------------------|--------------|-----------|------------|-----------------------------|--------------|---------------|-----------------------|----------------|-------------------|
|      | Min.          | Max. | Outer Dia.            | Total Length | Spider ID | Hub Length | Space Bet <sup>n</sup> Hubs | Spider Width | Isolation Gap | Spider Wall Thickness | Screw Size     | Tightening Torque |
|      | d1            | d2   |                       |              |           |            |                             |              |               |                       |                |                   |
|      |               |      | D                     | L            | d3        | l1 & l2    | E                           | b            | g             | a                     |                | Ts Nm             |
| 7    | 3             | 7    | 14                    | 18           | --        | 5          | 8                           | 6            | 1             | 6                     | M2             | 0.43              |
| 9    | 4             | 10   | 20                    | 24           | 7         | 7          | 10                          | 8            | 1             | 1.5                   | M2.5           | 0.85              |
| 12   | 4             | 12   | 25                    | 26           | 8.5       | 7          | 12                          | 10           | 1             | 3.5                   | M3             | 1.5               |
| 14   | 6             | 14   | 30                    | 32           | 10.5      | 9.5        | 13                          | 10           | 1.5           | 2                     | M4             | 1.5               |
| 19   | 8             | 20   | 40                    | 50           | 18        | 17         | 16                          | 12           | 2             | 3                     | M6             | 10.5              |
| 24   | 11            | 32   | 55                    | 58           | 27        | 20         | 18                          | 14           | 2             | 3                     | M6             | 10.5              |
| 28   | 15            | 38   | 65                    | 62           | 30        | 21         | 20                          | 15           | 2.5           | 4                     | M8             | 25                |
| 38   | 20            | 48   | 80                    | 86           | 38        | 31         | 24                          | 18           | 3             | 4                     | M10            | 70                |
| 42   | 25            | 51   | 95                    | 94           | 46        | 34         | 26                          | 20           | 3             | 4                     | M12            | 120               |
| 48   | 28            | 55   | 105                   | 110          | 51        | 41         | 28                          | 21           | 3.5           | 4                     | M12            | 120               |

**TECHNICAL DETAILS :**

| Size<br>PUFlex<br>GS | Spider   | Rated  | Max RPM | Dynamic Torsional | Radial    | Max. Shaft Misalignment |        |         | Weight | Moment of |
|----------------------|----------|--------|---------|-------------------|-----------|-------------------------|--------|---------|--------|-----------|
|                      | Hardness | Torque |         | Stiffness         | Stiffness | Axial                   | Radial | Angular |        |           |
|                      | Shore A  | Nm     |         |                   | Nm/rad    | N/mm                    | mm     | mm      |        |           |
| 7                    | 80       | 0.7    | 27000   | 26                | 114       | +0.6 to -0.3            | 0.15   | 1.1     | 0.006  | 0.00018   |
|                      | 92       | 1.2    |         | 43                | 219       |                         | 0.1    | 1       |        |           |
|                      | 98       | 2      |         | 69                | 421       |                         | 0.06   | 0.9     |        |           |
| 9                    | 80       | 1.8    | 19000   | 52                | 125       | +0.8 to -0.4            | 0.19   | 1.1     | 0.015  | 0.00085   |
|                      | 92       | 3      |         | 95                | 262       |                         | 0.13   | 1       |        |           |
|                      | 98       | 5      |         | 155               | 518       |                         | 0.08   | 0.9     |        |           |
| 12                   | 80       | 3      | 15200   | 252               | 274       | +0.9 to -0.4            | 0.2    | 1.1     | 0.023  | 0.00221   |
|                      | 92       | 5      |         | 482               | 470       |                         | 0.14   | 1       |        |           |
|                      | 98       | 9      |         | 718               | 846       |                         | 0.08   | 0.9     |        |           |
| 14                   | 80       | 4      | 12700   | 180               | 153       | +1.0 to -0.5            | 0.21   | 1.1     | 0.045  | 0.0166    |
|                      | 92       | 7.5    |         | 344               | 336       |                         | 0.15   | 1       |        |           |
|                      | 98       | 12.5   |         | 513               | 604       |                         | 0.09   | 0.9     |        |           |
| 19                   | 80       | 4.9    | 9550    | 1030              | 582       | +1.2 to -0.5            | 0.15   | 1.1     | 0.14   | 0.0311    |
|                      | 92       | 10     |         | 1720              | 1120      |                         | 0.1    | 1       |        |           |
|                      | 98       | 17     |         | 2580              | 2010      |                         | 0.06   | 0.9     |        |           |
| 24                   | 92       | 35     | 6950    | 4296              | 1480      | +1.4 to -0.5            | 0.14   | 1       | 0.27   | 0.12      |
|                      | 98       | 60     |         | 6189              | 2560      |                         | 0.1    | 0.9     |        |           |
| 28                   | 92       | 95     | 5850    | 6876              | 1780      | +1.5 to -0.7            | 0.11   | 1       | 0.43   | 0.26      |
|                      | 98       | 160    |         | 10314             | 3200      |                         | 0.08   | 0.9     |        |           |
| 38                   | 92       | 190    | 4750    | 13752             | 2350      | +1.8 to -0.7            | 0.17   | 1       | 0.89   | 0.83      |
|                      | 98       | 325    |         | 21486             | 4400      |                         | 0.12   | 0.9     |        |           |
| 42                   | 92       | 265    | 4000    | 14490             | 2430      | +2.0 to -1.0            | 0.19   | 1       | 1.43   | 1.87      |
|                      | 98       | 450    |         | 48000             | 5570      |                         | 0.14   | 0.9     |        |           |
| 48                   | 92       | 310    | 3600    | 18055             | 2580      | +2.1 to -1.0            | 0.23   | 1       | 2.02   | 3.22      |
|                      | 98       | 525    |         | 55925             | 5930      |                         | 0.16   | 0.9     |        |           |

**MANUFACTURER OF PUFlex GS 6.0 AI-AI COUPLINGS**



Hub Material : Aluminium  
 Clamping Ring : Aluminium  
 Spider material : Polyurethane.  
 Bore Tolerance : H7 by default. Other Tolerances are available on request.

**Ordering Code** : PUFlex GS 6.0 AI-AI 00 Bore XX-YY  
00 : Size of Coupling  
XX and YY : Both side Inner Diameters.

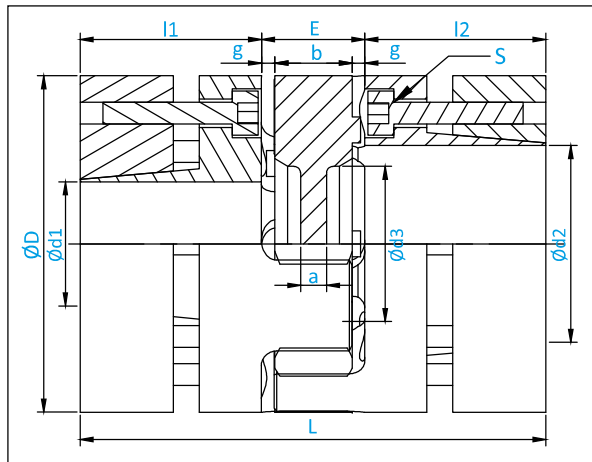
**DIMENSIONAL DETAILS :**

| Size | Bore sizes mm |      | Overall Dimensions mm |              |           |            |                             |              |               |                       | Clamping Screw |                   |
|------|---------------|------|-----------------------|--------------|-----------|------------|-----------------------------|--------------|---------------|-----------------------|----------------|-------------------|
|      | Min.          | Max. | Outer Dia.            | Total Length | Spider ID | Hub Length | Space Bet <sup>n</sup> Hubs | Spider Width | Isolation Gap | Spider Wall Thickness | Screw Size     | Tightening Torque |
|      | d1            | d2   |                       |              |           |            |                             |              |               |                       |                |                   |
| 14   | 6             | 14   | 30                    | 50           | 10.5      | 18.5       | 13                          | 10           | 1.5           | 2                     | M3 x 4 no      | 1.34              |
| 19   | 8             | 20   | 40                    | 66           | 18        | 25         | 16                          | 12           | 2             | 3                     | M4 x 6 no      | 3                 |
| 24   | 11            | 32   | 55                    | 78           | 27        | 30         | 18                          | 14           | 2             | 3                     | M5 x 4 no      | 6                 |
| 28   | 15            | 38   | 65                    | 90           | 30        | 35         | 20                          | 15           | 2.5           | 4                     | M5 x 8 no      | 6                 |
| 38   | 20            | 48   | 80                    | 114          | 38        | 45         | 24                          | 18           | 3             | 4                     | M6 x 8 no      | 10                |
| 42   | 25            | 51   | 95                    | 126          | 46        | 50         | 26                          | 20           | 3             | 4                     | M8 x 4 no      | 25                |
| 48   | 28            | 55   | 105                   | 140          | 51        | 56         | 28                          | 21           | 3.5           | 4                     | M10 x 4 no     | 49                |

**TECHNICAL DETAILS :**

| Size<br>PUFlex<br>GS | Spider   | Rated  | Max RPM | Dynamic Torsional | Radial    | Max. Shaft Misalignment |        |          | Weight | Moment of         |
|----------------------|----------|--------|---------|-------------------|-----------|-------------------------|--------|----------|--------|-------------------|
|                      | Hardness | Torque |         | Stiffness         | Stiffness | Axial                   | Radial | Angular  | Kg     | Kgcm <sup>2</sup> |
|                      | Shore A  | Nm     |         | Nm/rad            | N/mm      | mm                      | mm     | ° degree |        |                   |
| 14                   | 92       | 7.5    | 25400   | 344               | 336       | +1.0 to -0.5            | 0.15   | 1        | 0.042  | 0.14              |
|                      | 98       | 12.5   |         | 513               | 604       |                         | 0.09   | 0.9      |        |                   |
| 19                   | 92       | 10     | 19000   | 1720              | 1120      | +1.2 to -0.5            | 0.1    | 1        | 0.158  | 0.63              |
|                      | 98       | 17     |         | 2580              | 2010      |                         | 0.06   | 0.9      |        |                   |
| 24                   | 92       | 35     | 13800   | 4296              | 1480      | +1.4 to -0.5            | 0.14   | 1        | 0.33   | 2.60              |
|                      | 98       | 60     |         | 6189              | 2560      |                         | 0.1    | 0.9      |        |                   |
| 28                   | 92       | 95     | 11700   | 6876              | 1780      | +1.5 to -0.7            | 0.11   | 1        | 0.56   | 6.30              |
|                      | 98       | 160    |         | 10314             | 3200      |                         | 0.08   | 0.9      |        |                   |
| 38                   | 92       | 190    | 9550    | 13752             | 2350      | +1.8 to -0.7            | 0.17   | 1        | 1.00   | 19.50             |
|                      | 98       | 325    |         | 21486             | 4400      |                         | 0.12   | 0.9      |        |                   |
| 42                   | 92       | 265    | 8050    | 14490             | 2430      | +2.0 to -1.0            | 0.19   | 1        | 1.85   | 22.50             |
|                      | 98       | 450    |         | 48000             | 5570      |                         | 0.14   | 0.9      |        |                   |
| 48                   | 92       | 310    | 7200    | 18055             | 2580      | +2.1 to -1.0            | 0.23   | 1        | 2.50   | 46.00             |
|                      | 98       | 525    |         | 55925             | 5930      |                         | 0.16   | 0.9      |        |                   |

**MANUFACTURER OF PUFlex GS 6.0 AI-St COUPLINGS**



Hub Material : Aluminium  
 Clamping Ring : Steel  
 Spider material : Polyurethane.  
 Bore Tolerance : H7 by default. Other Tolerances are available on request.

**Ordering Code** : PUFlex GS 6.0 AI-St 00 Bore XX-YY  
00 : Size of Coupling  
XX and YY : Both side Inner Diameters.

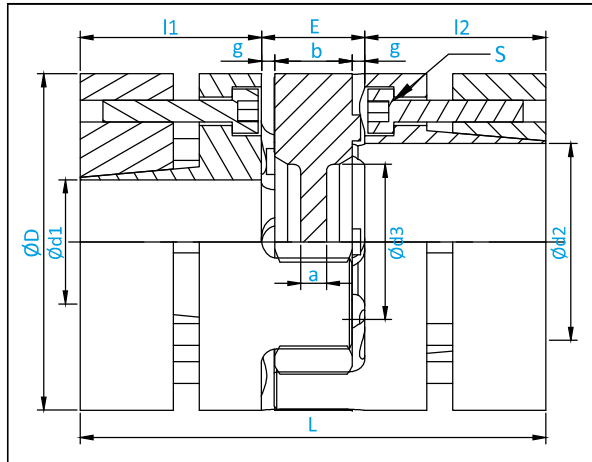
**DIMENSIONAL DETAILS :**

| Size | Bore sizes mm |      | Overall Dimensions mm |              |           |            |                             |              |               |                       | Clamping Screw |                   |
|------|---------------|------|-----------------------|--------------|-----------|------------|-----------------------------|--------------|---------------|-----------------------|----------------|-------------------|
|      | Min.          | Max. | Outer Dia.            | Total Length | Spider ID | Hub Length | Space Bet <sup>n</sup> Hubs | Spider Width | Isolation Gap | Spider Wall Thickness | Screw Size     | Tightening Torque |
|      | d1            | d2   | D                     | L            | d3        | l1 & l2    | E                           | b            | g             | a                     |                | Ts Nm             |
| 14   | 6             | 14   | 30                    | 50           | 10.5      | 18.5       | 13                          | 10           | 1.5           | 2                     | M3 x 4 no      | 1.34              |
| 19   | 8             | 20   | 40                    | 66           | 18        | 25         | 16                          | 12           | 2             | 3                     | M4 x 6 no      | 3                 |
| 24   | 11            | 32   | 55                    | 78           | 27        | 30         | 18                          | 14           | 2             | 3                     | M5 x 4 no      | 6                 |
| 28   | 15            | 38   | 65                    | 90           | 30        | 35         | 20                          | 15           | 2.5           | 4                     | M5 x 8 no      | 6                 |
| 38   | 20            | 48   | 80                    | 114          | 38        | 45         | 24                          | 18           | 3             | 4                     | M6 x 8 no      | 10                |
| 42   | 25            | 51   | 95                    | 126          | 46        | 50         | 26                          | 20           | 3             | 4                     | M8 x 4 no      | 25                |
| 48   | 28            | 55   | 105                   | 140          | 51        | 56         | 28                          | 21           | 3.5           | 4                     | M10 x 4 no     | 49                |

**TECHNICAL DETAILS :**

| Size<br>PUFlex<br>GS | Spider Hardness | Rated Torque | Max RPM | Dynamic Torsional Stiffness | Radial Stiffness | Max. Shaft Misalignment |        |          | Weight | Moment of Inertia |
|----------------------|-----------------|--------------|---------|-----------------------------|------------------|-------------------------|--------|----------|--------|-------------------|
|                      | Shore A         | Nm           |         | Nm/rad                      | N/mm             | Axial                   | Radial | Angular  | Kg     | Kgcm <sup>2</sup> |
|                      |                 |              |         |                             |                  | mm                      | mm     | ° degree |        |                   |
| 14                   | 92              | 7.5          | 25400   | 344                         | 336              | +1.0 to -0.5            | 0.15   | 1        | 0.11   | 0.14              |
|                      | 98              | 12.5         |         | 513                         | 604              |                         | 0.09   | 0.9      |        |                   |
| 19                   | 92              | 10           | 19000   | 1720                        | 1120             | +1.2 to -0.5            | 0.1    | 1        | 0.275  | 0.66              |
|                      | 98              | 17           |         | 2580                        | 2010             |                         | 0.06   | 0.9      |        |                   |
| 24                   | 92              | 35           | 13800   | 4296                        | 1480             | +1.4 to -0.5            | 0.14   | 1        | 0.615  | 2.82              |
|                      | 98              | 60           |         | 6189                        | 2560             |                         | 0.1    | 0.9      |        |                   |
| 28                   | 92              | 95           | 11700   | 6876                        | 1780             | +1.5 to -0.7            | 0.11   | 1        | 0.94   | 6.50              |
|                      | 98              | 160          |         | 10314                       | 3200             |                         | 0.08   | 0.9      |        |                   |
| 38                   | 92              | 190          | 9550    | 13752                       | 2350             | +1.8 to -0.7            | 0.17   | 1        | 1.97   | 20.10             |
|                      | 98              | 325          |         | 21486                       | 4400             |                         | 0.12   | 0.9      |        |                   |
| 42                   | 92              | 265          | 8050    | 14490                       | 2430             | +2.0 to -1.0            | 0.19   | 1        | 3.07   | 43.25             |
|                      | 98              | 450          |         | 48000                       | 5570             |                         | 0.14   | 0.9      |        |                   |
| 48                   | 92              | 310          | 7200    | 18055                       | 2580             | +2.1 to -1.0            | 0.23   | 1        | 3.86   | 68.60             |
|                      | 98              | 525          |         | 55925                       | 5930             |                         | 0.16   | 0.9      |        |                   |

**MANUFACTURER OF PUFlex GS 6.0 St-St COUPLINGS**



Hub Material : Steel  
 Clamping Ring : Steel  
 Spider material : Polyurethane.  
 Bore Tolerance : H7 by default. Other Tolerances are available on request.

**Ordering Code** : PUFlex GS 6.0 St-St 00 Bore XX-YY  
00 : Size of Coupling  
XX and YY : Both side Inner Diameters.

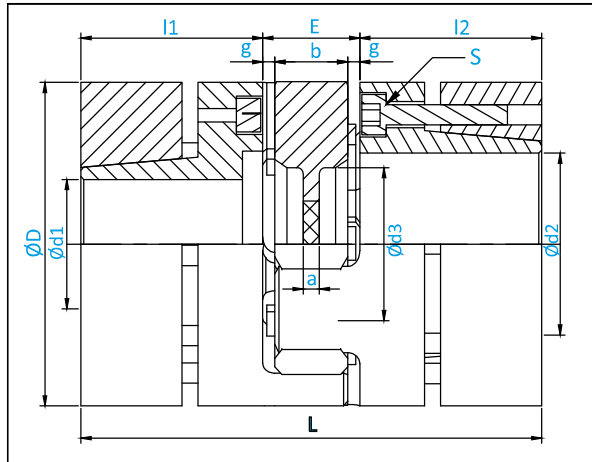
**DIMENSIONAL DETAILS :**

| Size | Bore sizes mm |      | Overall Dimensions mm |              |           |            |                             |              |               |                       | Clamping Screw |                   |
|------|---------------|------|-----------------------|--------------|-----------|------------|-----------------------------|--------------|---------------|-----------------------|----------------|-------------------|
|      | Min.          | Max. | Outer Dia.            | Total Length | Spider ID | Hub Length | Space Bet <sup>n</sup> Hubs | Spider Width | Isolation Gap | Spider Wall Thickness | Screw Size     | Tightening Torque |
|      | d1            | d2   |                       |              |           |            |                             |              |               |                       |                |                   |
| 14   | 6             | 14   | 30                    | 50           | 10.5      | 18.5       | 13                          | 10           | 1.5           | 2                     | M3 x 4 no      | 1.34              |
| 19   | 8             | 20   | 40                    | 66           | 18        | 25         | 16                          | 12           | 2             | 3                     | M4 x 6 no      | 3                 |
| 24   | 11            | 32   | 55                    | 78           | 27        | 30         | 18                          | 14           | 2             | 3                     | M5 x 4 no      | 6                 |
| 28   | 15            | 38   | 65                    | 90           | 30        | 35         | 20                          | 15           | 2.5           | 4                     | M5 x 8 no      | 6                 |
| 38   | 20            | 48   | 80                    | 114          | 38        | 45         | 24                          | 18           | 3             | 4                     | M6 x 8 no      | 10                |
| 42   | 25            | 51   | 95                    | 126          | 46        | 50         | 26                          | 20           | 3             | 4                     | M8 x 4 no      | 25                |
| 48   | 28            | 55   | 105                   | 140          | 51        | 56         | 28                          | 21           | 3.5           | 4                     | M10 x 4 no     | 49                |

**TECHNICAL DETAILS :**

| Size<br>PUFlex<br>GS | Spider   | Rated  | Max RPM | Dynamic Torsional | Radial    | Max. Shaft Misalignment |        |          | Weight | Moment of         |
|----------------------|----------|--------|---------|-------------------|-----------|-------------------------|--------|----------|--------|-------------------|
|                      | Hardness | Torque |         | Stiffness         | Stiffness | Axial                   | Radial | Angular  | Kg     | Kgcm <sup>2</sup> |
|                      | Shore A  | Nm     |         | Nm/rad            | N/mm      | mm                      | mm     | ° degree |        |                   |
| 14                   | 92       | 7.5    | 25400   | 344               | 336       | +1.0 to -0.5            | 0.15   | 1        | 0.22   | 0.22              |
|                      | 98       | 12.5   |         | 513               | 604       |                         | 0.09   | 0.9      |        |                   |
| 19                   | 92       | 10     | 19000   | 1720              | 1120      | +1.2 to -0.5            | 0.1    | 1        | 0.4    | 0.95              |
|                      | 98       | 17     |         | 2580              | 2010      |                         | 0.06   | 0.9      |        |                   |
| 24                   | 92       | 35     | 13800   | 4296              | 1480      | +1.4 to -0.5            | 0.14   | 1        | 0.5    | 4.10              |
|                      | 98       | 60     |         | 6189              | 2560      |                         | 0.1    | 0.9      |        |                   |
| 28                   | 92       | 95     | 11700   | 6876              | 1780      | +1.5 to -0.7            | 0.11   | 1        | 1.3    | 8.80              |
|                      | 98       | 160    |         | 10314             | 3200      |                         | 0.08   | 0.9      |        |                   |
| 38                   | 92       | 190    | 9550    | 13752             | 2350      | +1.8 to -0.7            | 0.17   | 1        | 2.65   | 26.50             |
|                      | 98       | 325    |         | 21486             | 4400      |                         | 0.12   | 0.9      |        |                   |
| 42                   | 92       | 265    | 8050    | 14490             | 2430      | +2.0 to -1.0            | 0.19   | 1        | 5.7    | 64.00             |
|                      | 98       | 450    |         | 48000             | 5570      |                         | 0.14   | 0.9      |        |                   |
| 48                   | 92       | 310    | 7200    | 18055             | 2580      | +2.1 to -1.0            | 0.23   | 1        | 6.40   | 105.00            |
|                      | 98       | 525    |         | 55925             | 5930      |                         | 0.16   | 0.9      |        |                   |

**MANUFACTURER OF PUFlex GS 6.0 COMPACT AI-St COUPLINGS**



Hub Material : Aluminium  
Clamping Ring : Steel  
Spider material : Polyurethane.  
Bore Tolerance : H7 by default. Other Tolerances are available on request.

**Ordering Code** : PUFlex GS 6.0 Compact AI-St 00 Bore XX-YY  
00 : Size of Coupling  
XX and YY : Both side Inner Diameters.

**DIMENSIONAL DETAILS :**

| Size | Bore sizes mm |      | Overall Dimensions mm |              |           |            |                             |              |               |                       | Clamping Screw |                   |
|------|---------------|------|-----------------------|--------------|-----------|------------|-----------------------------|--------------|---------------|-----------------------|----------------|-------------------|
|      | Min.          | Max. | Outer Dia.            | Total Length | Spider ID | Hub Length | Space Bet <sup>n</sup> Hubs | Spider Width | Isolation Gap | Spider Wall Thickness | Screw Size     | Tightening Torque |
|      | d1            | d2   | D                     | L            | d3        | l1 & l2    | E                           | b            | g             | a                     |                | Ts Nm             |
| 14   | 6             | 14   | 30                    | 42           | 10.5      | 14.5       | 13                          | 10           | 1.5           | 2                     | M3 x 4 no      | 1.34              |
| 19   | 8             | 20   | 40                    | 56           | 18        | 20         | 16                          | 12           | 2             | 3                     | M4 x 6 no      | 3                 |
| 24   | 11            | 32   | 55                    | 64           | 27        | 23         | 18                          | 14           | 2             | 3                     | M5 x 4 no      | 6                 |
| 28   | 15            | 38   | 65                    | 76           | 30        | 28         | 20                          | 15           | 2.5           | 4                     | M5 x 8 no      | 6                 |
| 38   | 20            | 48   | 80                    | 96           | 38        | 36         | 24                          | 18           | 3             | 4                     | M6 x 8 no      | 10                |
| 42   | 25            | 51   | 95                    | 103          | 46        | 38.5       | 26                          | 20           | 3             | 4                     | M8 x 4 no      | 25                |
| 48   | 28            | 55   | 105                   | 110          | 51        | 41         | 28                          | 21           | 3.5           | 4                     | M10 x 4 no     | 49                |

**TECHNICAL DETAILS :**

| Size<br>PUFlex<br>GS | Spider   | Rated  | Max RPM | Dynamic Torsional | Radial    | Max. Shaft Misalignment |        |          | Weight | Moment of         |
|----------------------|----------|--------|---------|-------------------|-----------|-------------------------|--------|----------|--------|-------------------|
|                      | Hardness | Torque |         | Stiffness         | Stiffness | Axial                   | Radial | Angular  |        | Inertia           |
|                      | Shore A  | Nm     |         | Nm/rad            | N/mm      | mm                      | mm     | ° degree | Kg     | Kgcm <sup>2</sup> |
| 14                   | 92       | 7.5    | 25400   | 344               | 336       | +1.0 to -0.5            | 0.15   | 1        | 0.09   | 0.12              |
|                      | 98       | 12.5   |         | 513               | 604       |                         | 0.09   | 0.9      |        |                   |
| 19                   | 92       | 10     | 19000   | 1720              | 1120      | +1.2 to -0.5            | 0.1    | 1        | 0.253  | 0.63              |
|                      | 98       | 17     |         | 2580              | 2010      |                         | 0.06   | 0.9      |        |                   |
| 24                   | 92       | 35     | 13800   | 4296              | 1480      | +1.4 to -0.5            | 0.14   | 1        | 0.5    | 2.63              |
|                      | 98       | 60     |         | 6189              | 2560      |                         | 0.1    | 0.9      |        |                   |
| 28                   | 92       | 95     | 11700   | 6876              | 1780      | +1.5 to -0.7            | 0.11   | 1        | 0.777  | 5.55              |
|                      | 98       | 160    |         | 10314             | 3200      |                         | 0.08   | 0.9      |        |                   |
| 38                   | 92       | 190    | 9550    | 13752             | 2350      | +1.8 to -0.7            | 0.17   | 1        | 1.64   | 16.88             |
|                      | 98       | 325    |         | 21486             | 4400      |                         | 0.12   | 0.9      |        |                   |
| 42                   | 92       | 265    | 8050    | 14490             | 2430      | +2.0 to -1.0            | 0.19   | 1        | 2.62   | 36.22             |
|                      | 98       | 450    |         | 48000             | 5570      |                         | 0.14   | 0.9      |        |                   |
| 48                   | 92       | 310    | 7200    | 18055             | 2580      | +2.1 to -1.0            | 0.23   | 1        | 3.11   | 54.75             |
|                      | 98       | 525    |         | 55925             | 5930      |                         | 0.16   | 0.9      |        |                   |



## MANUFACTURER OF PUFLEX GR COUPLING

### HUB DETAILS :

PUFLEX GR hubs are available in Aluminium, Cast Iron and Steel material.

PUFLEX GR sizes from 19 to 28 are made from Aluminum Alloy and Steel material.

PUFLEX GR sizes from 38 to 90 are made from Cast Iron & Steel material



PUFLEX GR hubs are manufactured with high precision machining.

The jaws are machined with concave shape and entry chamfer for easy assembly.

The concave shape in jaws of hub and the convex shape on the polyurethane spider allows for better angular, parallel and axial misalignment.

These hubs are available in un-bored, pilot bored, finish bore & key-ways and with different styles of clamping arrangements as per customer requirements.

### SPIDER DETAILS :

PUFLEX GR spiders are manufactured from high grade polyurethane.

PUFLEX GR are available in three different hardness as 64 Shore A, 92 Shore A and 98 Shore A. This different hardnesses are made available to suit different applications.

The details are as below.

| Spider Type    | Colour | Material     | Temperature Range ° C |                  | Available sizes | Application    |
|----------------|--------|--------------|-----------------------|------------------|-----------------|----------------|
| Shore Hardness |        |              | Normal Working        | Maximum          |                 |                |
| 64 Shore A     | Green  | Polyurethane | from -50 to +80       | from -60 to +120 | GR 19 to 90     | More Vibration |
| 92 Shore A     | Yellow | Polyurethane | from -40 to +90       | from -50 to +120 | GR 19 to 90     | Medium Torque  |
| 98 Shore A     | Red    | Polyurethane | from -30 to +90       | from -40 to +120 | GR 19 to 90     | More Torque    |

## PUFLEX GR COUPLING

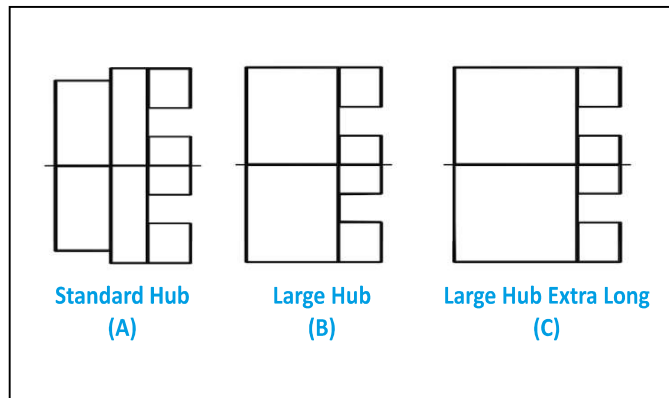
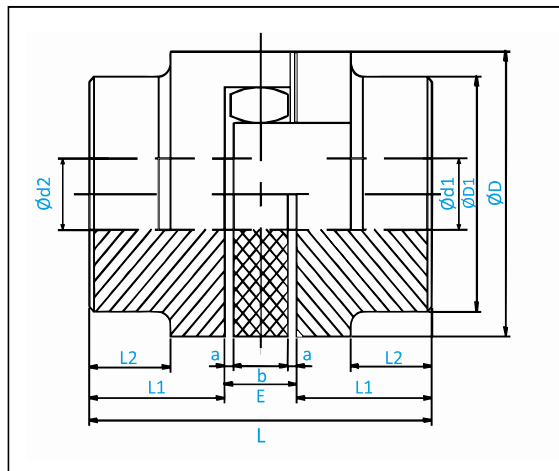
**PUFLEX GR** couplings are the three piece assembly of 2 no. Aluminium Alloy, Cast Iron or Steel hubs and one Special Grade Polyurethane Spider. These three pieces are co-axially assembled to complete the PUFLEX GR coupling. After assembly these couplings becomes sufficient flexible, positive motion and power transmitting fail safe coupling elements. Due to polyurethane spider, both the metallic hubs are separated from each other to avoid there physical contact. This helps to avoid the electrical and frequency isolation of both the connected driver and driven elements.

### APPLICATIONS:

Pumps, Cooling Towers, Conveyors, Rolling Mills, Hyd. Power Packs, Crane Hoist, Gear Box & Motors, Textile Machines, Special Purpose Machines and many more.

### BENEFITS:

Flexible, No maintenance, No Lubrication, Failsafe, Uniform & Positive motion and power transmission, Electrical and frequency isolation, Available in Unbored, pilot bore and finish bore and key-ways.



**Ordering Code** : PUFlex GR 00 Bore XX-YY  
00 : Size of Coupling  
XX and YY : Both side bore Diameters.  
Please mention material of hub : Aluminium Casting / Cast Iron / Steel

### DIMENSIONAL DETAILS :

| Size<br>PUFlex<br>GR | Bore Sizes mm |          |           | Overall Dimensions |      |        |                  |                |         |               |        |                        |        |           |
|----------------------|---------------|----------|-----------|--------------------|------|--------|------------------|----------------|---------|---------------|--------|------------------------|--------|-----------|
|                      | Minimum       |          | Maximum   | Outer              | Hub  | Spider | Total Length     | Total Length   | Hub     | Hub           | Hub    | Space Bet <sup>n</sup> | Spider | Isolation |
|                      |               | Std. Hub | Large Hub | Dia.               | Dia. | I.D.   | Std. / Large Hub | Extra Long Hub | Length  | Length        | Length | Hubs                   | Width  | Gap       |
|                      | d1            | d2       | d2        | D                  | D1   | d3     | L                | L              | Std. L1 | Extra Long L1 | L2     | E                      | b      | a         |
| 19                   | 6             | 19       | 24        | 41                 | 32   | 18     | 66               | 90             | 25      | 37            | 20     | 16                     | 12     | 2.0       |
| 24                   | 9             | 24       | 28        | 56                 | 40   | 27     | 78               | 118            | 30      | 50            | 24     | 18                     | 14     | 2.0       |
| 28                   | 10            | 28       | 38        | 66                 | 48   | 30     | 90               | 140            | 35      | 60            | 28     | 20                     | 15     | 2.5       |
| 38                   | 12            | 38       | 48        | 80                 | 66   | 38     | 114              | 164            | 45      | 70            | 37     | 24                     | 18     | 3.0       |
| 42                   | 14            | 42       | 55        | 95                 | 75   | 46     | 126              | 176            | 50      | 75            | 40     | 26                     | 20     | 3.0       |
| 48                   | 15            | 48       | 62        | 105                | 85   | 51     | 140              | 188            | 56      | 80            | 45     | 28                     | 21     | 3.5       |
| 55                   | 20            | 55       | 74        | 120                | 98   | 60     | 160              | 210            | 65      | 90            | 52     | 30                     | 22     | 4.0       |
| 65                   | 22            | 65       | 80        | 135                | 115  | 68     | 185              | 235            | 75      | 100           | 61     | 35                     | 26     | 4.5       |
| 75                   | 30            | 75       | 95        | 160                | 135  | 80     | 210              | 260            | 85      | 110           | 69     | 40                     | 30     | 5.0       |
| 90                   | 40            | 90       | 110       | 200                | 160  | 100    | 245              | 295            | 100     | 125           | 81     | 45                     | 34     | 5.5       |

### TECHNICAL DETAILS :

| Size<br>PUFlex<br>GR | Rated Torque Nm |         |         | Maximum<br>RPM | Max. Misalignment |              |                | Dynamic Torsional Stiffness |         |         | Weight<br>Kg | Moment of<br>Inertia<br>Kgm <sup>2</sup> |
|----------------------|-----------------|---------|---------|----------------|-------------------|--------------|----------------|-----------------------------|---------|---------|--------------|------------------------------------------|
|                      |                 |         |         |                | Axial<br>mm       | Radial<br>mm | Angular<br>Deg | 10 <sup>3</sup> Nm/rad      |         |         |              |                                          |
|                      | 98 Sh-A         | 92 Sh-A | 64 Sh-D |                |                   |              |                | 98 Sh-A                     | 92 Sh-A | 64 Sh-D |              |                                          |
| 19                   | 17              | 10      | 21      | 16700          | 1.2               | 0.2          | 1.2            | 2.92                        | 1.28    | 5.35    | 0.51         | 0.000121                                 |
| 24                   | 60              | 35      | 75      | 12100          | 1.4               | 0.22         | 0.9            | 9.93                        | 4.86    | 15.11   | 1.10         | 0.000466                                 |
| 28                   | 160             | 95      | 200     | 10100          | 1.5               | 0.25         | 0.9            | 26.77                       | 10.90   | 27.52   | 1.80         | 0.00107                                  |
| 38                   | 325             | 190     | 405     | 8300           | 1.8               | 0.28         | 1.0            | 48.57                       | 21.05   | 70.15   | 2.50         | 0.00171                                  |
| 42                   | 450             | 265     | 560     | 7000           | 2.0               | 0.32         | 1.0            | 54.50                       | 23.74   | 79.86   | 3.90         | 0.00476                                  |
| 48                   | 525             | 310     | 655     | 6350           | 2.1               | 0.36         | 1.1            | 65.29                       | 36.70   | 95.51   | 5.30         | 0.00805                                  |
| 55                   | 685             | 410     | 825     | 5500           | 2.2               | 0.38         | 1.1            | 94.97                       | 50.72   | 107.92  | 7.90         | 0.01564                                  |
| 65                   | 940             | 625     | 1175    | 4950           | 2.6               | 0.42         | 1.2            | 129.51                      | 97.13   | 151.09  | 11.90        | 0.03071                                  |
| 75                   | 1920            | 1280    | 2400    | 4150           | 3.0               | 0.48         | 1.2            | 197.50                      | 113.32  | 248.22  | 18.60        | 0.06706                                  |
| 90                   | 3600            | 2400    | 4500    | 3300           | 3.4               | 0.5          | 1.2            | 312.20                      | 190.09  | 674.52  | 33.60        | 0.22139                                  |

## MANUFACTURER OF DFC COUPLINGS



Disc Flexible Couplings (DFC) are made with Disc Set and Aluminium Hubs for clamping. These Discs are bolted alternately to the Aluminium Hubs from both sides of Disc Sets. Disc Flexible Coupling (DFC) the three or five pieces' assembly of 2 no. Aluminium or 3 no. Aluminium hubs and 1 no. or 2 no. of Stainless Steel Disc sets. These three or five parts are assembled with bolts with precision. This assembly becomes a Backlash Free and High Torsional Stiff, precise, long life Disc Flexible Coupling (DFC). Disc Flexible Coupling (DFC) Couplings are more suitable for higher RPM, Temperature, uni-direction or bi-directions.

### APPLICATIONS :

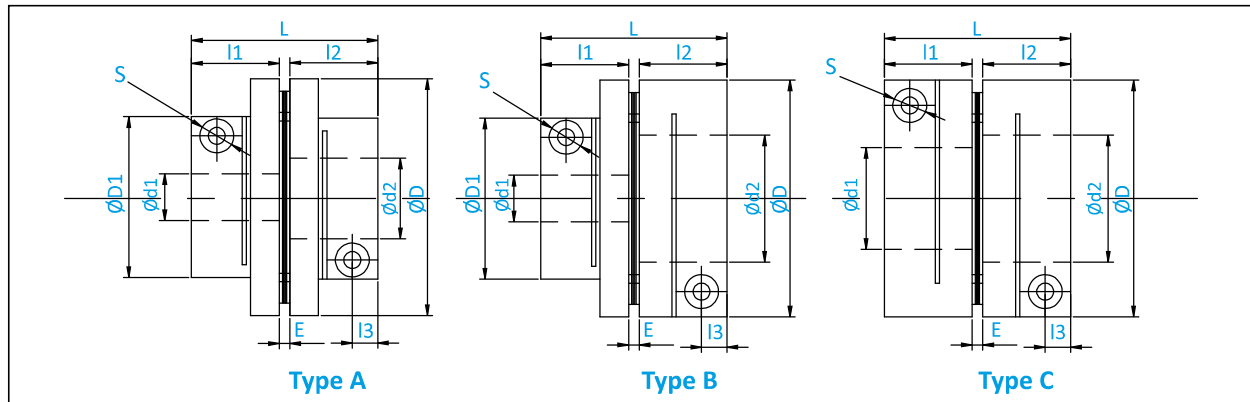
Servo Motors, Stepper Motors, Ball-screws, CNC machines, X-Y slides, Shaft Encoders, Tacho-generators, Medical Equipment's, Precise Spindles, and much more precise backlash-free motion and power transmission applications.

### BENEFITS :

Flexible, Backlash-free, High Torsional Stiffness, No maintenance, No Lubrication, Uniform & Positive motion and power transmission, higher temperature, Available in Unbored, pilot bore and finish bore and key-ways.

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| <b>Ordering Code</b> | : DFC <u>00</u> <u>XX</u> Bore <u>YY-ZZ</u>                          |
| <u>00</u>            | : Size of Coupling                                                   |
| <u>XX</u>            | : <u>SL</u> for Single Lamina Set<br><u>DL</u> for Double Lamina Set |
| <u>YY-ZZ</u>         | : Both side inner diameters.                                         |

## DFC Single Lamina Set (DFC SL Series)



### DIMENSIONAL DETAILS :

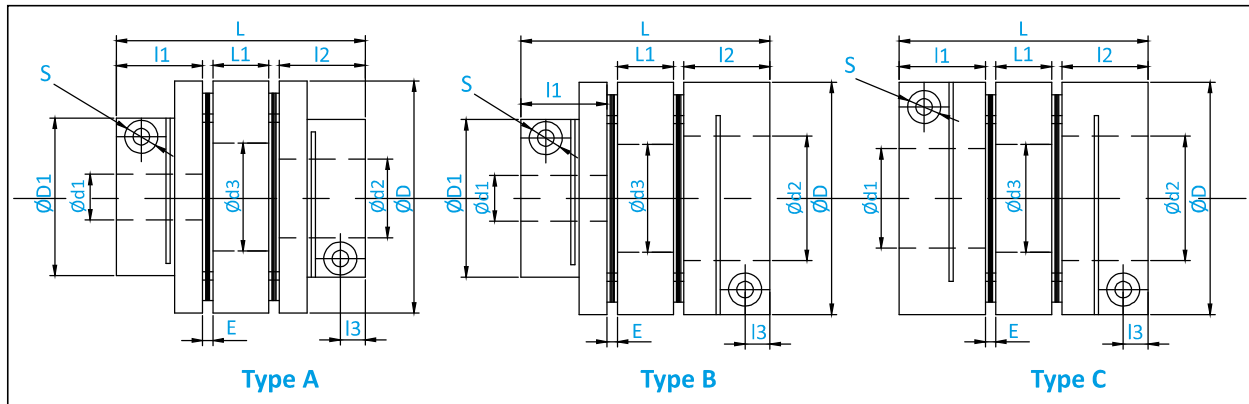
| Size<br><br>DFC<br><br>SL | Type      | Bore sizes Step Hub |       | Bore sizes Full Hub |       | Overall Dimensions |        |           |        |          |        |                        | Screw Details |           | Screw      |
|---------------------------|-----------|---------------------|-------|---------------------|-------|--------------------|--------|-----------|--------|----------|--------|------------------------|---------------|-----------|------------|
|                           | A / B / C | Mini.               | Max.  | Mini.               | Max.  | Outer              | Total  | Outer     | Lamina | Hub      | Spacer | Space Bet <sup>n</sup> | Screw         | Distance  | Tightening |
|                           |           |                     |       |                     |       | Dia.               | Length | Step Dia. | I.D.   | Length   | Width  | Hubs                   | Size          | from edge | Torque     |
|                           |           | d1 mm               | d2 mm | d1 mm               | d2 mm | D mm               | L mm   | D1 mm     | d3 mm  | l1&l2 mm | L1 mm  | E mm                   | S             | l3 mm     | Ts Nm      |
| DFC 20 SL                 | C         | -                   | -     | 3.00                | 12.00 | 26.00              | 24.00  | -         | 12.10  | 11.20    | 6.40   | 1.6                    | M 2.5         | 3.50      | 0.8        |
| DFC 25 SL                 | C         | -                   | -     | 5.00                | 14.00 | 29.00              | 24.00  | -         | 14.50  | 11.00    | 7.00   | 2                      | M 2.5         | 3.50      | 0.8        |
| DFC 30 SL                 | A         | 5.00                | 10.00 | -                   | -     | 34.00              | 27.00  | 22.00     | 14.50  | 12.40    | 8.80   | 2.2                    | M 3           | 3.75      | 1.5        |
|                           | B         | 5.00                | 10.00 | 10.00               | 16.00 |                    |        | 22.00     |        |          |        |                        |               |           |            |
|                           | C         | -                   | -     | 10.00               | 16.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 35 SL                 | C         | -                   | -     | 6.00                | 18.00 | 39.00              | 34.00  | -         | 17.00  | 15.50    | 11.00  | 3                      | M 4           | 4.50      | 3          |
| DFC 40 SL                 | A         | 8.00                | 15.00 | -                   | -     | 44.00              | 34.00  | 34.00     | 20.00  | 15.50    | 11.00  | 3                      | M 4           | 4.50      | 3          |
|                           | B         | 8.00                | 15.00 | 15.00               | 22.00 |                    |        | 34.00     |        |          |        |                        |               |           |            |
|                           | C         | -                   | -     | 15.00               | 22.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 50 SL                 | A         | 8.00                | 19.00 | -                   | -     | 56.00              | 44.00  | 38.00     | 26.10  | 20.75    | 13.50  | 2.5                    | M 5           | 6.00      | 8          |
|                           | B         | 8.00                | 19.00 | 19.00               | 30.00 |                    |        | 38.00     |        |          |        |                        |               |           |            |
|                           | C         | -                   | -     | 19.00               | 30.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 55 SL                 | C         | -                   | -     | 10.00               | 30.00 | 63.00              | 50.60  | -         | 31.00  | 24.00    | 15.65  | 2.6                    | M 6           | 7.75      | 10.5       |
| DFC 60 SL                 | A         | 11.00               | 24.00 | -                   | -     | 68.00              | 54.00  | 46.00     | 31.20  | 25.35    | 16.00  | 3.3                    | M 6           | 7.75      | 10.5       |
|                           | B         | 11.00               | 24.00 | 24.00               | 35.00 |                    |        | 46.00     |        |          |        |                        |               |           |            |
|                           | C         | -                   | -     | 24.00               | 35.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 80 SL                 | C         | -                   | -     | 18.00               | 40.00 | 82.00              | 68.00  | -         | 38.10  | 30.00    | 22.00  | 8                      | M 8           | 9.00      | 25         |
| DFC 90 SL                 | C         | -                   | -     | 25.00               | 45.00 | 94.00              | 68.00  | -         | 42.20  | 30.00    | 23.00  | 8                      | M 8           | 9.00      | 25         |
| DFC 100 SL                | C         | -                   | -     | 32.00               | 45.00 | 104.00             | 70.00  | -         | 48.20  | 30.00    | 22.00  | 10                     | M 8           | 9.00      | 25         |

### TECHNICAL DETAILS :

| Size       | Rated  | Maximum Shaft Misalignment |       |         | Max   | Torsional | Mass Moment of    |
|------------|--------|----------------------------|-------|---------|-------|-----------|-------------------|
| DFC        | Torque | Parallel                   | Axial | Angular | Speed | Stiffness | Inertia           |
| DL         | Nm     | mm                         | mm    | Degree  | RPM   | Nm/rad    | Kgcm <sup>2</sup> |
| DFC 20 SL  | 2      | 0.02                       | 0.15  | 1       | 10000 | 3700      | 0.02360           |
| DFC 25 SL  | 4      | 0.02                       | 0.20  | 1       | 10000 | 5600      | 0.03700           |
| DFC 30 SL  | 5      | 0.02                       | 0.20  | 1       | 10000 | 8000      | 0.08200           |
| DFC 35 SL  | 8      | 0.02                       | 0.25  | 1       | 10000 | 18000     | 0.16500           |
| DFC 40 SL  | 10     | 0.02                       | 0.30  | 1       | 10000 | 20000     | 0.29550           |
| DFC 50 SL  | 25     | 0.02                       | 0.40  | 1       | 10000 | 32000     | 1.00000           |
| DFC 55 SL  | 40     | 0.02                       | 0.45  | 1       | 10000 | 50000     | 1.90000           |
| DFC 60 SL  | 60     | 0.02                       | 0.45  | 1       | 10000 | 70000     | 2.70000           |
| DFC 80 SL  | 100    | 0.02                       | 0.55  | 1       | 10000 | 140000    | 7.10000           |
| DFC 90 SL  | 180    | 0.02                       | 0.65  | 1       | 10000 | 100000    | 12.30000          |
| DFC 100 SL | 250    | 0.02                       | 0.75  | 1       | 10000 | 120000    | 18.60000          |



### DFC Double Lamina Set (DFC DL Series)



#### DIMENSIONAL DETAILS :

| Size<br>DFC<br>DL | Type      | Bore sizes Step Hub |       | Bore sizes Full Hub |       | Overall Dimensions |        |           |        |          |        |                        | Screw Details |           | Screw      |
|-------------------|-----------|---------------------|-------|---------------------|-------|--------------------|--------|-----------|--------|----------|--------|------------------------|---------------|-----------|------------|
|                   | A / B / C | Mini.               | Max.  | Mini.               | Max.  | Outer              | Total  | Outer     | Lamina | Hub      | Spacer | Space Bet <sup>H</sup> | Screw         | Distance  | Tightening |
|                   |           |                     |       |                     |       | Dia.               | Length | Step Dia. | I.D.   | Length   | Width  | Hubs                   | Size          | from edge | Torque     |
|                   |           | d1 mm               | d2 mm | d1 mm               | d2 mm | D mm               | L mm   | D1 mm     | d3 mm  | l1&l2 mm | L1 mm  | E mm                   | S             | l3 mm     | Ts Nm      |
| DFC 20 DL         | C         | -                   | -     | 3.00                | 12.00 | 26.00              | 32.00  | -         | 12.00  | 11.20    | 6.40   | 1.60                   | M 2.5         | 3.5       | 0.8        |
| DFC 25 DL         | C         | -                   | -     | 5.00                | 14.00 | 29.00              | 33.00  | -         | 14.50  | 11.00    | 7.00   | 2.00                   | M 2.5         | 3.5       | 0.8        |
| DFC 30 DL         | A         | 5.00                | 10.00 | -                   | -     | 34.00              | 38.00  | 22.00     | 14.50  | 12.40    | 8.80   | 2.20                   | M 3           | 3.75      | 1.5        |
|                   | B         | 5.00                | 10.00 | 10.00               | 16.00 |                    |        | 22.00     |        |          |        |                        |               |           |            |
|                   | C         | -                   | -     | 10.00               | 16.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 35 DL         | C         | -                   | -     | 6.00                | 18.00 | 39.00              | 48.00  | -         | 17.00  | 15.50    | 11.00  | 3.00                   | M 4           | 4.5       | 3          |
| DFC 40 DL         | A         | 8.00                | 15.00 | -                   | -     | 44.00              | 48.00  | 30.00     | 20.00  | 15.50    | 11.00  | 3.00                   | M 4           | 4.5       | 3          |
|                   | B         | 8.00                | 15.00 | 15.00               | 22.00 |                    |        | 30.00     |        |          |        |                        |               |           |            |
|                   | C         | -                   | -     | 15.00               | 22.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 50 DL         | A         | 8.00                | 19.00 | -                   | -     | 56.00              | 60.00  | 38.00     | 26.10  | 20.75    | 13.50  | 2.50                   | M 5           | 6         | 8          |
|                   | B         | 8.00                | 19.00 | 19.00               | 30.00 |                    |        | 38.00     |        |          |        |                        |               |           |            |
|                   | C         | -                   | -     | 19.00               | 30.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 55 DL         | C         | -                   | -     | 10.00               | 30.00 | 63.00              | 69.00  | -         | 31.00  | 24.00    | 15.65  | 2.60                   | M 6           | 7.75      | 10.5       |
| DFC 60 DL         | A         | 11.00               | 24.00 | -                   | -     | 68.00              | 73.00  | 46.00     | 31.20  | 25.35    | 16.00  | 3.30                   | M 6           | 7.75      | 10.5       |
|                   | B         | 11.00               | 24.00 | 24.00               | 35.00 |                    |        | 46.00     |        |          |        |                        |               |           |            |
|                   | C         | -                   | -     | 24.00               | 35.00 |                    |        | -         |        |          |        |                        |               |           |            |
| DFC 80 DL         | C         | -                   | -     | 18.00               | 40.00 | 82.00              | 98.00  | -         | 38.10  | 30.00    | 22.00  | 8.00                   | M 8           | 9         | 25         |
| DFC 90 DL         | C         | -                   | -     | 25.00               | 45.00 | 94.00              | 99.00  | -         | 42.20  | 30.00    | 23.00  | 8.00                   | M 8           | 9         | 25         |
| DFC 100 DL        | C         | -                   | -     | 32.00               | 45.00 | 104.00             | 102.00 | -         | 48.20  | 30.00    | 22.00  | 10.00                  | M 8           | 9         | 25         |

#### TECHNICAL DETAILS :

| Size       | Rated  | Maximum Shaft Misalignment |       |         | Max   | Torsional | Mass Moment of    |
|------------|--------|----------------------------|-------|---------|-------|-----------|-------------------|
| DFC        | Torque | Paraller                   | Axial | Angular | Speed | Stiffness | Inertia           |
| DL         | Nm     | mm                         | mm    | Degree  | RPM   | Nm/rad    | Kgcm <sup>2</sup> |
| DFC 20 DL  | 2      | 0.15                       | 0.35  | 1       | 10000 | 1850      | 0.03400           |
| DFC 25 DL  | 4      | 0.16                       | 0.40  | 1       | 10000 | 2800      | 0.05300           |
| DFC 30 DL  | 5      | 0.18                       | 0.40  | 1       | 10000 | 4000      | 0.11500           |
| DFC 35 DL  | 8      | 0.24                       | 0.50  | 1       | 10000 | 9000      | 0.26780           |
| DFC 40 DL  | 10     | 0.24                       | 0.60  | 1       | 10000 | 10000     | 0.42620           |
| DFC 50 DL  | 25     | 0.28                       | 0.80  | 1       | 10000 | 16000     | 1.42000           |
| DFC 55 DL  | 40     | 0.31                       | 0.80  | 1       | 10000 | 25000     | 2.62000           |
| DFC 60 DL  | 60     | 0.34                       | 0.90  | 1       | 10000 | 35000     | 3.78000           |
| DFC 80 DL  | 100    | 0.52                       | 1.10  | 1       | 10000 | 70000     | 10.34000          |
| DFC 90 DL  | 180    | 0.52                       | 1.30  | 1       | 10000 | 50000     | 17.76000          |
| DFC 100 DL | 250    | 0.55                       | 1.50  | 1       | 10000 | 60000     | 27.10000          |



## MANUFACTURER OF PUFlex EC DOUBLE LOOP COUPLING



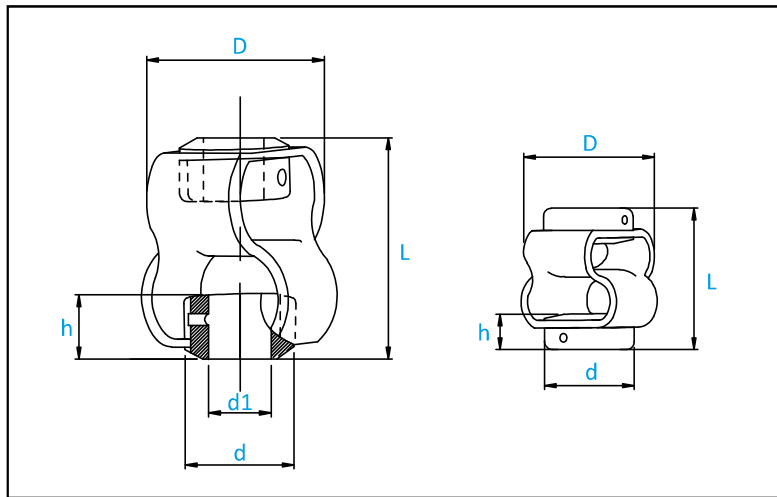
PUFLEX EC couplings are the three piece assembly of 2 no. Steel hubs and one Special Grade Polyurethane element. These three pieces are assembled to complete the PUFLEX EC coupling. After assembly these couplings becomes sufficient flexible, backlash-free, positive motion transmitting fail safe coupling elements. Due to Polyurethane element, both the metallic hubs are separated from each other to avoid there physical contact. This helps to avoid the electrical and frequency isolation of both the connected driver and driven elements.

### APPLICATIONS :

Shaft Encoders, Stepper Motors, Tachogenerators

### BENEFITS :

Flexible, Backlash-free, No maintenance, No Lubrication, Failsafe, Uniform & Positive motion and power transmission, Electrical and frequency isolation, Available in pilot bore and finish bores and key-ways.



| Size      | Outer Dia. | Hub Dia. | Hub Length | Length | Bore Size mm |         | Max. Misalignment |         |       | Max.      | Max. | Torsional       |
|-----------|------------|----------|------------|--------|--------------|---------|-------------------|---------|-------|-----------|------|-----------------|
| PUFLEX EC | D mm       | d mm     | h mm       | L mm   | Min. d1      | Max. d2 | Radial mm         | Angular | Axial | Torque Nm | RPM  | StiffnessNm/rad |
| 10        | 26.00      | 19.00    | 8.00       | 28.00  | 5.00         | 10.00   | 2.6               | 10      | 1.2   | 0.5       | 3000 | 5               |
| 20        | 38.00      | 23.00    | 9.50       | 35.00  | 6.00         | 12.00   | 3.2               | 10      | 2.0   | 1.5       | 3000 | 10              |
| 30        | 48.00      | 26.00    | 13.00      | 48.00  | 8.00         | 14.00   | 3.2               | 12      | 2.0   | 2.0       | 3000 | 13              |
| 40        | 56.00      | 28.00    | 16.00      | 58.00  | 10.00        | 16.00   | 3.2               | 12      | 2.0   | 5.0       | 3000 | 17              |

**Ordering Code** : PUFlex EC XX-YY-ZZ  
**XX** : Size of Coupling  
**YY** : Inner Diameter of first side  
**ZZ** : Inner Diameter of second side.

## MANUFACTURER OF SPRINGFlex COUPLINGS

SpringFlex Couplings are the three-piece assembly of one rectangular cross-section, high grade spring steel and 2 no. zinc alloy hubs. These three pieces are co-axially assembled to complete the SpringFlex Couplings. After assembly this coupling becomes Backlash-free, positive motion transmitting coupling.

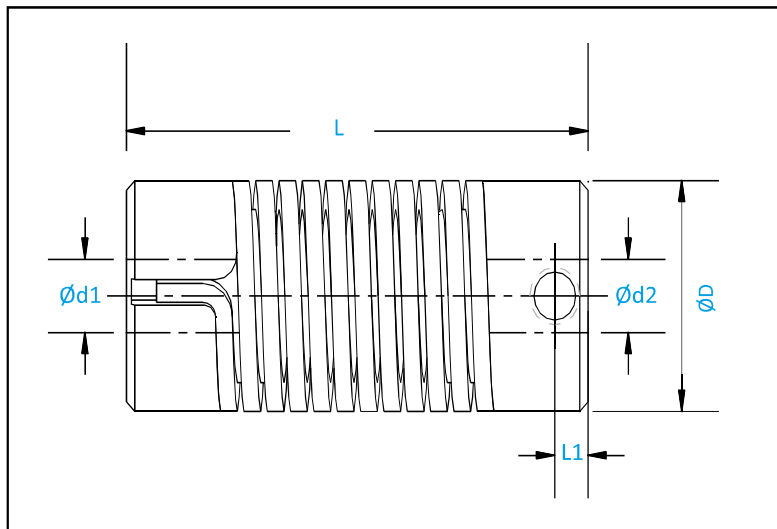


### APPLICATIONS:

Shaft Couplings

### BENEFITS:

More Flexible, Heavy duty, Backlash-free, No maintenance, No Lubrication, Uniform, Precision and Positive motion transmission.



### DIMENSIONAL AND TECHNICAL DETAILS

| Size          | Outer Dia. | Inner Dia. |         | Length L<br>mm | Distance from<br>edge L1 mm | Max.<br>RPM | Rated<br>Torque Nm | Max. Misalignment |          |           |
|---------------|------------|------------|---------|----------------|-----------------------------|-------------|--------------------|-------------------|----------|-----------|
|               | D mm       | d1 min.    | d2 min. |                |                             |             |                    | Radial mm         | Axial mm | Angular ° |
| SpringFlex 16 | 16.00      | 4.00       | 8.00    | 35.00          | 5.00                        | 3000        | 1.00               | ± 1.5             | ± 1      | ± 5       |
| SpringFlex 26 | 26.00      | 6.00       | 12.00   | 50.00          | 6.00                        | 3000        | 3.00               | ± 1.5             | ± 1      | ± 5       |

### DETAILS :

Material:

- 1) Spring: Spring Steel
- 2) Hub: Zinc Alloy

**Ordering Code** : SpringFlex 00 Bore XX-YY  
00 : Size of Coupling  
XX and YY : Both side inner diameters.