



# ISO-UNI FITTINGS

PVC-U

Solvent weld fittings, metric series



# ISO-UNI FITTINGS

Series of fittings designed for conveying fluids under pressure with a cold chemical weld jointing system (solvent welding) using a suitable solvent cement and cleaner-primer.

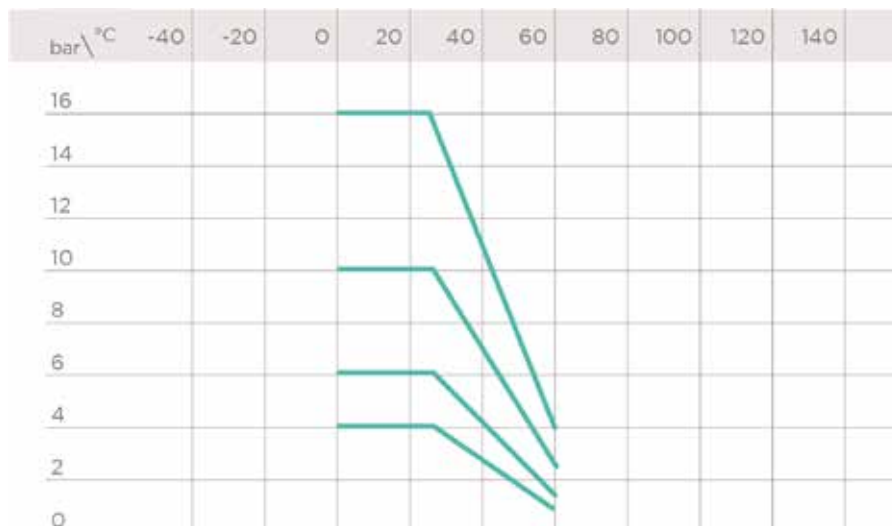
## SOLVENT WELD FITTINGS, METRIC SERIES

| Technical specifications   |   |
|----------------------------|---|
| <b>Size range</b>          | d 12 ÷ d 500 (mm)   |
| <b>Nominal pressure</b>    | PN 16 with water at 20 °C   |
| <b>Temperature range</b>   | 0 °C ÷ 60 °C  |
| <b>Coupling standards</b>  | <b>Solvent welding:</b> ISO 727, EN ISO 15493, DIN 8063, EN ISO 1452, ASTM D 2467, JIS K 6743, BS 4346-1. Can be coupled to pipes according to ISO 161-1, EN ISO 1452, EN ISO 15493, DIN 8062, ASTM D1785, JIS K6741, BS 3505-3506<br><b>Flanging system:</b> DIN 2501, EN 1092-1 |
| <b>Reference standards</b> | <b>Construction criteria:</b> EN ISO 1452, EN 1092-1<br><b>Test methods and requirements:</b> EN ISO 1452, EN ISO 15493<br><b>Installation criteria:</b> DVS 2204, DVS 2221, UNI 11242  |
| <b>Fitting material</b>    | PVC-U Grey RAL 7011   |
| <b>Seal material</b>       | EPDM, FKM   |

# TECHNICAL DATA

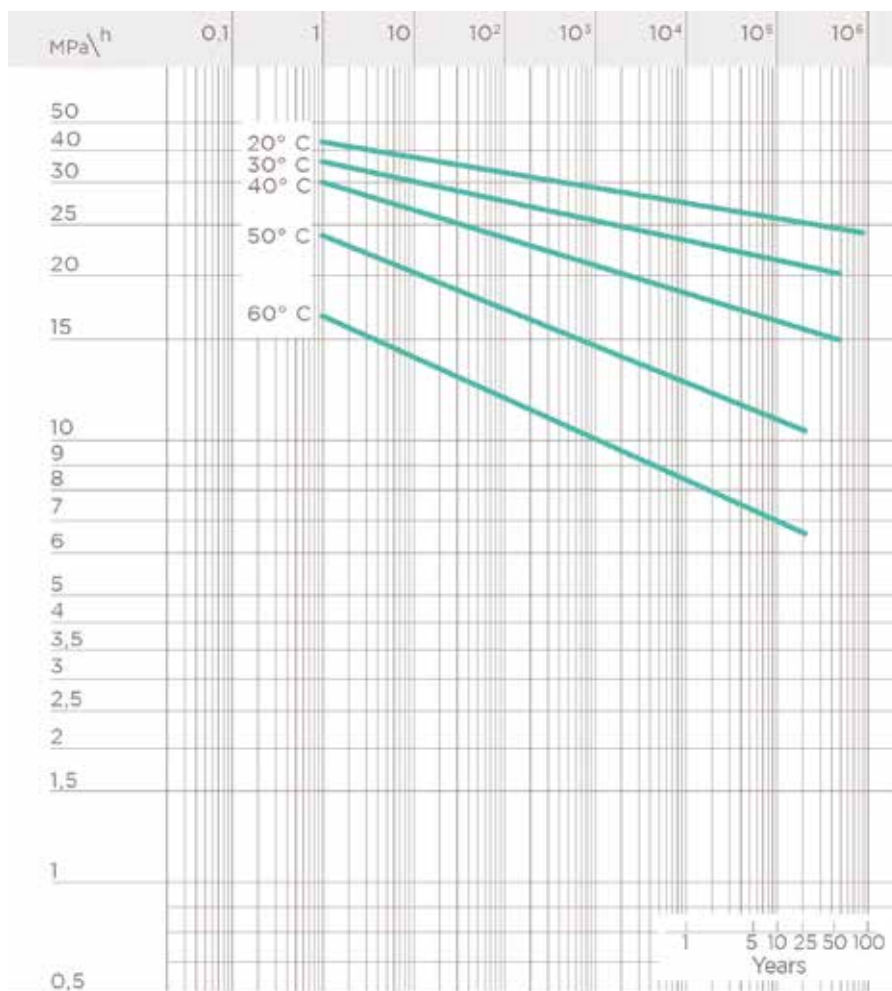
## PRESSURE VARIATION ACCORDING TO TEMPERATURE

For water and non-hazardous fluids for which the material is classified as CHEMICALLY RESISTANT (life expectancy 25 years). In other cases, a reduction of the nominal pressure PN is required.



## REGRESSION CURVE FOR PVC-U FITTINGS

Regression coefficients according to EN ISO 1452 and EN ISO 15493 for MRS (minimum required strength) values = 25 N/mm<sup>2</sup> (MPa) (classification PVC-U 250).



## SAFETY FACTORS

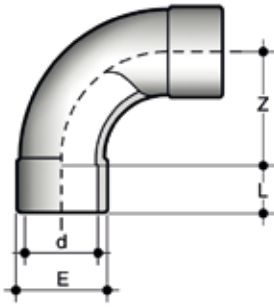
The table reports the safety factors for each pressure class as a function of time.

Nominal pressure PN must be understood as being the standard pressure used for calculating and selecting the required fittings. In order to be able to comply with the safety factors, the maximum continuous working pressure at 20° C when conveying water must be the same as the nominal pressure values. Unless otherwise specified, the nominal pressures are as follows:

- solvent weld fittings from d 12 to d 225 PN 16 from d 250 to d 315 PN 10
- adaptor fittings from d 16 to d 110 PN 16
- threaded fittings from R 3/8" to R 4" up to PN 16.

| Pe (bar) | 1h   | 1000h | 50 years | T |
|----------|------|-------|----------|---|
| 10       | 6,72 | 5,12  | 4        |   |
| 16       | 4,2  | 3,2   | 2,5      |   |

# DIMENSIONS



## SIV

90° long radius bend (R=2d) with solvent weld sockets

|    | d   | PN | E   | L  | Z     | g    | Code   |
|----|-----|----|-----|----|-------|------|--------|
| IH | 20  | 16 | 27  | 16 | 40,5  | 35   | SIV020 |
| IH | 25  | 16 | 33  | 19 | 50    | 55   | SIV025 |
| IH | 32  | 16 | 41  | 22 | 65,5  | 100  | SIV032 |
| IH | 40  | 16 | 50  | 26 | 80,5  | 175  | SIV040 |
| IH | 50  | 16 | 61  | 31 | 100,5 | 280  | SIV050 |
| IH | 63  | 16 | 76  | 38 | 127   | 515  | SIV063 |
| I  | 75  | 16 | 94  | 44 | 150   | 1000 | SIV075 |
| I  | 90  | 16 | 113 | 51 | 180   | 1770 | SIV090 |
| I  | 110 | 16 | 137 | 61 | 220   | 2800 | SIV110 |
| I  | 160 | 16 | 189 | 86 | 207   | 5020 | SIV160 |

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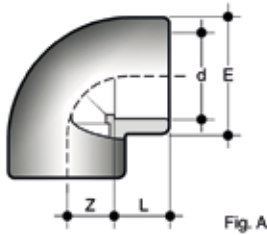


Fig. A

## GIV

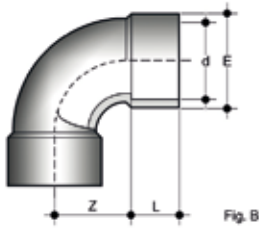
90° elbow with solvent weld sockets (fig. A)

|     | d    | PN   | E    | L     | Z     | g    | Code   |
|-----|------|------|------|-------|-------|------|--------|
|     | 12   | 16   | 17   | 12    | 8     | 4    | GIV012 |
| IFH | 16   | 16   | 22   | 14    | 9     | 11   | GIV016 |
| IFH | 20   | 16   | 26   | 16    | 12    | 15   | GIV020 |
| IFH | 25   | 16   | 32   | 19    | 15    | 30   | GIV025 |
| IFH | 32   | 16   | 40   | 22    | 19    | 50   | GIV032 |
| IFH | 40   | 16   | 50   | 26    | 22    | 90   | GIV040 |
| IFH | 50   | 16   | 58,5 | 31    | 26    | 107  | GIV050 |
| IFH | 63   | 16   | 73   | 37,5  | 32,5  | 200  | GIV063 |
| IF  | 75   | 16   | 87   | 44    | 39    | 315  | GIV075 |
| IF  | 90   | 16   | 104  | 51,5  | 46,5  | 533  | GIV090 |
| IF  | 110  | 16   | 126  | 61,5  | 56,5  | 930  | GIV110 |
| IF  | 125  | 16   | 144  | 69    | 64    | 1330 | GIV125 |
| IF  | 140  | 16   | 163  | 76    | 77    | 2080 | GIV140 |
| IF  | 160  | 16   | 183  | 87    | 82    | 2820 | GIV160 |
|     | *180 | 16   | 215  | 96    | 94    | 5200 | GIV180 |
|     | 200  | **10 | 222  | 107   | 102   | 4125 | GIV200 |
|     | 225  | 10   | 249  | 119,5 | 114,5 | 5670 | GIV225 |

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\*Resale product

\*\*PN16 on request

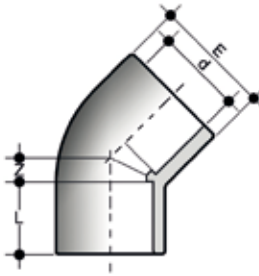


## GIV

90° elbow with solvent weld sockets (fig. B)

| d   | PN  | E   | L   | Z     | g     | Code   |
|-----|-----|-----|-----|-------|-------|--------|
| 225 | *16 | 258 | 119 | 171,5 | 8700  | GIV225 |
| 250 | 10  | 287 | 131 | 188   | 12480 | GIV250 |
| 280 | 10  | 325 | 147 | 210   | 17000 | GIV280 |
| 315 | 10  | 359 | 164 | 236   | 23370 | GIV315 |

\*On request

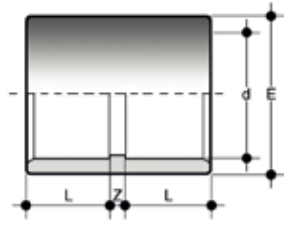


## HIV

45° elbow with solvent weld sockets

|     | d    | PN | E   | L   | Z    | g     | Code   |
|-----|------|----|-----|-----|------|-------|--------|
|     | 12   | 16 | 17  | 12  | 4    | 5     | HIV012 |
|     | 16   | 16 | 21  | 14  | 5    | 6     | HIV016 |
| IFH | 20   | 16 | 28  | 16  | 5,5  | 20    | HIV020 |
| IFH | 25   | 16 | 33  | 19  | 6    | 26    | HIV025 |
| IFH | 32   | 16 | 41  | 22  | 7,5  | 45    | HIV032 |
| IFH | 40   | 16 | 50  | 26  | 10,5 | 70    | HIV040 |
| IFH | 50   | 16 | 61  | 31  | 11,5 | 120   | HIV050 |
| IFH | 63   | 16 | 76  | 38  | 14   | 200   | HIV063 |
| IF  | 75   | 16 | 90  | 44  | 17   | 320   | HIV075 |
| IF  | 90   | 16 | 107 | 51  | 21,5 | 550   | HIV090 |
| I   | 110  | 16 | 130 | 61  | 26   | 915   | HIV110 |
| IF  | 125  | 16 | 147 | 69  | 31   | 1315  | HIV125 |
| IF  | 140  | 16 | 163 | 76  | 34   | 1660  | HIV140 |
| IF  | 160  | 16 | 192 | 86  | 38   | 3060  | HIV160 |
|     | *180 | 10 | 208 | 97  | 38   | 3500  | HIV180 |
|     | 200  | 10 | 230 | 108 | 48   | 4500  | HIV200 |
|     | 225  | 10 | 260 | 121 | 55   | 6400  | HIV225 |
|     | 250  | 10 | 286 | 131 | 58   | 7700  | HIV250 |
|     | 280  | 10 | 320 | 146 | 62   | 10460 | HIV280 |
|     | 315  | 10 | 359 | 164 | 66   | 15500 | HIV315 |

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\*resale product

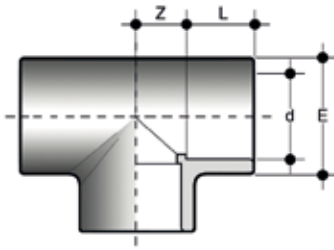


## MIV

Solvent weld double socket

|     | d    | PN | E   | L   | Z  | g    | Code   |
|-----|------|----|-----|-----|----|------|--------|
|     | 12   | 16 | 17  | 12  | 3  | 3    | MIV012 |
| F   | 16   | 16 | 21  | 14  | 3  | 7    | MIV016 |
| HIF | 20   | 16 | 26  | 16  | 3  | 11   | MIV020 |
| HIF | 25   | 16 | 32  | 19  | 3  | 20   | MIV025 |
| HIF | 32   | 16 | 40  | 22  | 3  | 30   | MIV032 |
| HIF | 40   | 16 | 50  | 26  | 3  | 55   | MIV040 |
| HIF | 50   | 16 | 61  | 31  | 3  | 90   | MIV050 |
| HIF | 63   | 16 | 76  | 38  | 3  | 160  | MIV063 |
| IF  | 75   | 16 | 90  | 44  | 3  | 250  | MIV075 |
| IF  | 90   | 16 | 108 | 51  | 4  | 415  | MIV090 |
| IF  | 110  | 16 | 131 | 61  | 8  | 715  | MIV110 |
| IF  | 125  | 16 | 148 | 69  | 7  | 960  | MIV125 |
| IF  | 140  | 16 | 164 | 76  | 8  | 1240 | MIV140 |
| IF  | 160  | 16 | 186 | 86  | 9  | 1680 | MIV160 |
|     | *180 | 10 | 209 | 96  | 8  | 2500 | MIV180 |
|     | 200  | 16 | 232 | 106 | 11 | 3050 | MIV200 |
|     | 225  | 16 | 260 | 119 | 11 | 4600 | MIV225 |
|     | 250  | 10 | 286 | 131 | 10 | 5760 | MIV250 |
|     | 280  | 10 | 320 | 146 | 10 | 7630 | MIV280 |
|     | 315  | 10 | 355 | 164 | 12 | 9780 | MIV315 |

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\*resale product

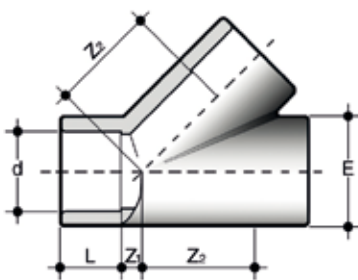


## TIV

90° Tee with solvent weld sockets

|     | d    | PN | E    | L    | Z    | g     | Code   |
|-----|------|----|------|------|------|-------|--------|
|     | 12   | 16 | 17   | 12   | 8    | 6     | TIV012 |
| FH  | 16   | 16 | 22   | 14   | 9    | 15    | TIV016 |
| IFH | 20   | 16 | 27   | 16   | 11   | 25    | TIV020 |
| IFH | 25   | 16 | 33   | 19   | 14   | 40    | TIV025 |
| IFH | 32   | 16 | 40   | 22   | 18   | 65    | TIV032 |
| IFH | 40   | 16 | 49   | 26   | 22   | 114   | TIV040 |
| IFH | 50   | 16 | 58,5 | 31   | 26   | 146   | TIV050 |
| IFH | 63   | 16 | 73   | 37,5 | 32,5 | 275   | TIV063 |
| IF  | 75   | 16 | 88   | 44   | 39   | 470   | TIV075 |
| IF  | 90   | 16 | 105  | 52   | 46   | 780   | TIV090 |
| IF  | 110  | 16 | 127  | 61   | 57   | 1335  | TIV110 |
| IF  | 125  | 16 | 151  | 69   | 64   | 2430  | TIV125 |
| IF  | 140  | 16 | 174  | 76   | 77   | 4150  | TIV140 |
| IF  | 160  | 16 | 183  | 87   | 82   | 3870  | TIV160 |
|     | *180 | 16 | 215  | 96   | 94   | 6180  | TIV180 |
|     | 200  | 16 | 228  | 106  | 101  | 6180  | TIV200 |
|     | 225  | 16 | 258  | 119  | 114  | 12680 | TIV225 |
|     | 250  | 10 | 286  | 131  | 128  | 13250 | TIV250 |
|     | 280  | 10 | 319  | 146  | 144  | 17840 | TIV280 |
|     | 315  | 10 | 360  | 164  | 162  | 25300 | TIV315 |

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\* Resale product



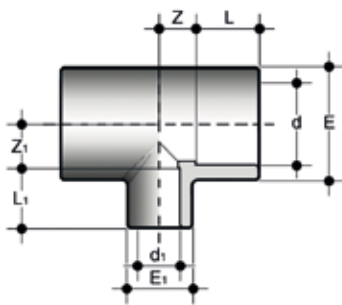
## YIV

45° Tee with solvent weld sockets

| d    | PN | E   | L  | Z  | Z2   | g    | Code   |
|------|----|-----|----|----|------|------|--------|
| 20   | 16 | 27  | 16 | 7  | 30   | 39   | YIV020 |
| 25   | 16 | 33  | 19 | 7  | 35   | 62   | YIV025 |
| 32   | 16 | 41  | 22 | 9  | 44   | 110  | YIV032 |
| 40   | 16 | 51  | 26 | 11 | 55   | 190  | YIV040 |
| 50   | 16 | 63  | 31 | 12 | 68,5 | 335  | YIV050 |
| 63   | 16 | 78  | 38 | 15 | 85   | 570  | YIV063 |
| *160 | 10 | 189 | 86 | 35 | 200  | 6500 | YIV160 |

\*resale product



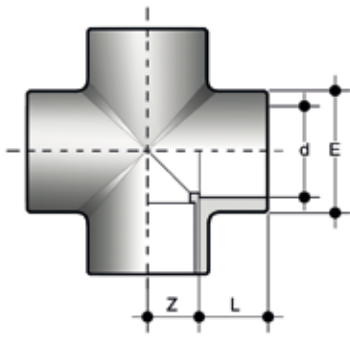


## TRIV

90° reducing Tee with reduced branch and solvent weld sockets

| d x d <sub>1</sub> | PN | E   | E <sub>1</sub> | L   | L <sub>1</sub> | Z    | Z <sub>1</sub> | g     | Code       |
|--------------------|----|-----|----------------|-----|----------------|------|----------------|-------|------------|
| 25 x 20            | 16 | 33  | 28             | 19  | 16             | 14   | 14             | 37    | TRIV025020 |
| 32 x 20            | 16 | 41  | 28             | 22  | 16             | 17,5 | 17,5           | 60    | TRIV032020 |
| 32 x 25            | 16 | 41  | 34             | 22  | 19             | 17,5 | 17,5           | 65    | TRIV032025 |
| 40 x 20            | 16 | 50  | 29             | 26  | 16             | 22   | 22             | 100   | TRIV040020 |
| 40 x 25            | 16 | 50  | 34             | 26  | 19             | 22   | 22             | 100   | TRIV040025 |
| 40 x 32            | 16 | 50  | 42             | 26  | 22             | 22   | 22             | 105   | TRIV040032 |
| 50 x 20            | 16 | 61  | 30             | 31  | 16             | 27   | 27             | 160   | TRIV050020 |
| 50 x 25            | 16 | 61  | 35             | 31  | 19             | 27   | 27             | 160   | TRIV050025 |
| 50 x 32            | 16 | 61  | 42             | 31  | 22             | 27   | 27             | 165   | TRIV050032 |
| 50 x 40            | 16 | 61  | 51             | 31  | 26             | 27   | 27             | 170   | TRIV050040 |
| 63 x 25            | 16 | 76  | 36             | 38  | 19             | 33,5 | 33,5           | 290   | TRIV063025 |
| 63 x 32            | 16 | 76  | 43             | 38  | 22             | 33,5 | 33,5           | 295   | TRIV063032 |
| 63 x 40            | 16 | 76  | 52             | 38  | 26             | 33,5 | 33,5           | 300   | TRIV063040 |
| 63 x 50            | 16 | 76  | 62             | 38  | 31             | 33,5 | 33,5           | 315   | TRIV063050 |
| 75 x 32            | 16 | 91  | 41             | 44  | 22             | 40   | 40             | 530   | TRIV075032 |
| 75 x 40            | 16 | 91  | 50             | 44  | 26             | 40   | 40             | 540   | TRIV075040 |
| 75 x 50            | 16 | 91  | 61             | 44  | 31             | 40   | 40             | 550   | TRIV075050 |
| 75 x 63            | 16 | 91  | 76             | 44  | 38             | 40   | 40             | 580   | TRIV075063 |
| 90 x 40            | 16 | 109 | 50             | 51  | 26             | 48   | 48             | 870   | TRIV090040 |
| 90 x 50            | 16 | 109 | 61             | 51  | 31             | 48   | 48             | 880   | TRIV090050 |
| 90 x 63            | 16 | 109 | 76             | 51  | 38             | 48   | 48             | 900   | TRIV090063 |
| 90 x 75            | 16 | 109 | 91             | 51  | 44             | 48   | 48             | 940   | TRIV090075 |
| 110 x 50           | 16 | 133 | 61             | 61  | 31             | 61   | 61             | 1580  | TRIV110050 |
| 110 x 63           | 16 | 133 | 76             | 61  | 38             | 61   | 61             | 1590  | TRIV110063 |
| 110 x 75           | 16 | 133 | 91             | 61  | 44             | 61   | 61             | 1610  | TRIV110075 |
| 110 x 90           | 16 | 133 | 109            | 61  | 51             | 61   | 61             | 1640  | TRIV110090 |
| *160 x 110         | 16 | 187 | 131            | 86  | 61             | 82   | 83             | 3700  | TRIV160110 |
| *250 x 110         | 10 | 285 | 134            | 129 | 63             | 61   | 128            | 8300  | TRIV250110 |
| *250 x 160         | 10 | 285 | 193            | 129 | 87             | 86   | 129            | 9900  | TRIV250160 |
| *250 x 200         | 10 | 285 | 228            | 129 | 106            | 133  | 132            | 12000 | TRIV250200 |
| *280 x 160         | 10 | 320 | 193            | 146 | 88             | 84   | 153            | 12500 | TRIV280160 |
| *280 x 225         | 10 | 320 | 258            | 146 | 117,5          | 117  | 150,5          | 14900 | TRIV280225 |
| *315 x 160         | 8  | 355 | 193            | 164 | 86             | 83   | 161            | 15000 | TRIV315160 |
| *315 x 200         | 8  | 355 | 228            | 164 | 106            | 102  | 179            | 17500 | TRIV315200 |
| *315 x 250         | 8  | 355 | 285            | 164 | 131            | 127  | 160            | 19200 | TRIV315250 |

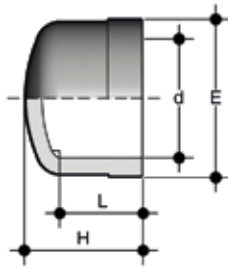
\*resale product



**XIV**  
90° cross with solvent weld sockets

|   | d  | PN | E  | L  | Z    | g   | Code   |
|---|----|----|----|----|------|-----|--------|
| H | 25 | 16 | 35 | 19 | 14   | 60  | XIV025 |
| H | 32 | 16 | 43 | 22 | 18   | 105 | XIV032 |
| H | 40 | 16 | 52 | 26 | 23   | 175 | XIV040 |
| H | 50 | 16 | 64 | 31 | 27   | 265 | XIV050 |
| H | 63 | 16 | 79 | 38 | 33,5 | 505 | XIV063 |

H: KIWA K5034 ND 10

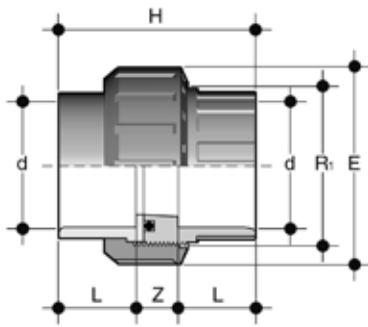


## CIV

End cap with solvent weld socket

|    | d   | PN | E   | H   | L   | g    | Code   |
|----|-----|----|-----|-----|-----|------|--------|
|    | 12  | 16 | 17  | 15  | 12  | 3    | CIV012 |
| F  | 16  | 16 | 21  | 17  | 15  | 4    | CIV016 |
| IF | 20  | 16 | 28  | 23  | 16  | 9    | CIV020 |
| IF | 25  | 16 | 34  | 27  | 19  | 15   | CIV025 |
| IF | 32  | 16 | 41  | 31  | 22  | 25   | CIV032 |
| IF | 40  | 16 | 51  | 36  | 26  | 40   | CIV040 |
| IF | 50  | 16 | 62  | 43  | 31  | 60   | CIV050 |
| IF | 63  | 16 | 77  | 51  | 38  | 110  | CIV063 |
| IF | 75  | 16 | 91  | 59  | 44  | 190  | CIV075 |
| IF | 90  | 16 | 110 | 69  | 51  | 330  | CIV090 |
| IF | 110 | 16 | 133 | 85  | 61  | 575  | CIV110 |
| I  | 125 | 16 | 147 | 99  | 69  | 900  | CIV125 |
|    | 140 | 16 | 164 | 108 | 76  | 1100 | CIV140 |
|    | 160 | 16 | 192 | 128 | 86  | 1900 | CIV160 |
|    | 225 | 10 | 260 | 163 | 119 | 3000 | CIV225 |

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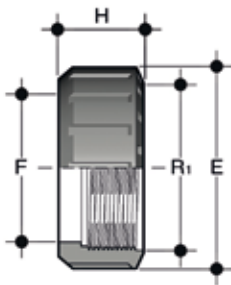


## BIV

Union with solvent weld socket, O-Ring in EPDM or FKM

|   | d   | R <sub>1</sub> | PN | E   | H   | L  | Z  | g    | Code    |
|---|-----|----------------|----|-----|-----|----|----|------|---------|
| I | 16  | 3/4"           | 16 | 33  | 41  | 14 | 13 | 20   | BIV016E |
| I | 20  | 1"             | 16 | 41  | 45  | 16 | 13 | 35   | BIV020E |
| I | 25  | 1 1/4"         | 16 | 50  | 51  | 19 | 13 | 60   | BIV025E |
| I | 32  | 1 1/2"         | 16 | 58  | 57  | 22 | 13 | 85   | BIV032E |
| I | 40  | 2"             | 16 | 72  | 67  | 26 | 15 | 150  | BIV040E |
| I | 50  | 2 1/4"         | 16 | 79  | 79  | 31 | 17 | 175  | BIV050E |
| I | 63  | 2 3/4"         | 16 | 98  | 98  | 38 | 22 | 320  | BIV063E |
|   | 75  | 3 1/2"         | 10 | 120 | 116 | 44 | 21 | 590  | BIV075E |
|   | 90  | 4"             | 10 | 135 | 125 | 51 | 23 | 770  | BIV090E |
|   | 110 | 5"             | 10 | 163 | 145 | 61 | 23 | 1300 | BIV110E |

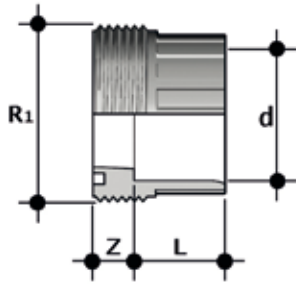
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## EFV

Union nut with BSP thread for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

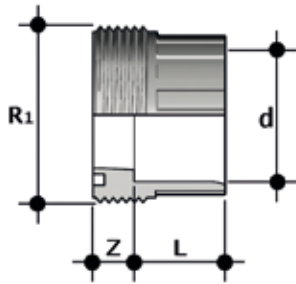
| R      | d BIV | PN | E   | F   | H  | g   | Code   |
|--------|-------|----|-----|-----|----|-----|--------|
| 1/2"   | -     | 16 | 27  | 17  | 24 | 8   | EFV012 |
| 3/4"   | 16    | 16 | 33  | 22  | 21 | 9   | EFV034 |
| 1"     | 20    | 16 | 41  | 28  | 22 | 13  | EFV100 |
| 1 1/4" | 25    | 16 | 50  | 36  | 25 | 22  | EFV114 |
| 1 1/2" | 32    | 16 | 58  | 42  | 27 | 30  | EFV112 |
| 2"     | 40    | 16 | 72  | 53  | 30 | 50  | EFV200 |
| 2 1/4" | 50    | 16 | 79  | 59  | 34 | 68  | EFV214 |
| 2 1/2" | -     | 16 | 90  | 68  | 36 | 95  | EFV212 |
| 2 3/4" | 63    | 16 | 98  | 74  | 38 | 120 | EFV234 |
| 3 1/2" | 75    | 10 | 120 | 93  | 45 | 198 | EFV312 |
| 4"     | 90    | 10 | 135 | 106 | 52 | 278 | EFV400 |
| 5"     | 110   | 10 | 163 | 129 | 60 | 448 | EFV500 |



### F/BIV

Union bush for solvent welding, metric series for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

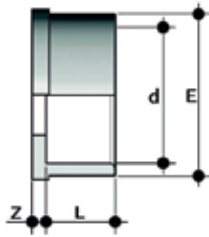
| d   | R <sub>1</sub> | PN | L  | Z  | g   | Code    |
|-----|----------------|----|----|----|-----|---------|
| 16  | 3/4"           | 16 | 14 | 10 | 9   | FBIV016 |
| 20  | 1"             | 16 | 16 | 10 | 13  | FBIV020 |
| 25  | 1 1/4"         | 16 | 19 | 10 | 25  | FBIV025 |
| 32  | 1 1/2"         | 16 | 22 | 10 | 31  | FBIV032 |
| 40  | 2"             | 16 | 26 | 12 | 58  | FBIV040 |
| 50  | 2 1/4"         | 16 | 31 | 14 | 63  | FBIV050 |
| 63  | 2 3/4"         | 16 | 38 | 19 | 119 | FBIV063 |
| 75  | 3 1/2"         | 10 | 44 | 18 | 230 | FBIV075 |
| 90  | 4"             | 10 | 51 | 18 | 290 | FBIV090 |
| 110 | 5"             | 10 | 61 | 18 | 500 | FBIV110 |



### F/BLV

Union bush for solvent welding, series BS for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

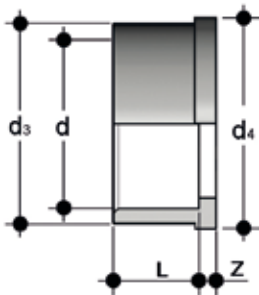
| d      | R <sub>1</sub> | PN | L  | Z  | g     | Code    |
|--------|----------------|----|----|----|-------|---------|
| 1/2"   | 1"             | 16 | 16 | 10 | 12,5  | FBLV012 |
| 3/4"   | 1 1/4"         | 16 | 19 | 10 | 22,5  | FBLV034 |
| 1"     | 1 1/2"         | 16 | 22 | 10 | 30    | FBLV100 |
| 1 1/4" | 2"             | 16 | 26 | 12 | 52    | FBLV114 |
| 1 1/2" | 2 1/2"         | 16 | 31 | 14 | 69,5  | FBLV112 |
| 2"     | 2 3/4"         | 16 | 38 | 19 | 133,5 | FBLV200 |



### Q/BIV

Union end for solvent welding, metric series for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

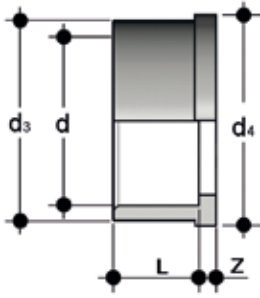
| d   | PN | E   | L  | Z | g   | Code    |
|-----|----|-----|----|---|-----|---------|
| 16  | 16 | 22  | 14 | 3 | 5   | QBIV016 |
| 20  | 16 | 28  | 16 | 3 | 8   | QBIV020 |
| 25  | 16 | 36  | 19 | 3 | 15  | QBIV025 |
| 32  | 16 | 42  | 22 | 3 | 24  | QBIV032 |
| 40  | 16 | 53  | 26 | 3 | 37  | QBIV040 |
| 50  | 16 | 59  | 31 | 3 | 42  | QBIV050 |
| 63  | 16 | 74  | 38 | 3 | 77  | QBIV063 |
| 75  | 10 | 93  | 44 | 3 | 150 | QBIV075 |
| 90  | 10 | 105 | 51 | 5 | 192 | QBIV090 |
| 110 | 10 | 129 | 61 | 5 | 335 | QBIV110 |



### Q/BLV

Union end for solvent welding, BS series for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

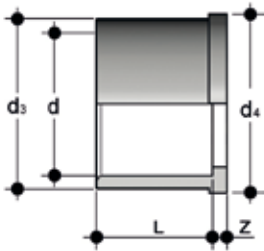
| d      | PN | d <sub>3</sub> | d <sub>4</sub> | L  | Z | g  | Code    |
|--------|----|----------------|----------------|----|---|----|---------|
| 1/2"   | 16 | 27,5           | 30,1           | 16 | 3 | 8  | QBLV012 |
| 3/4"   | 16 | 36             | 38,8           | 19 | 3 | 13 | QBLV034 |
| 1"     | 16 | 41,5           | 44,7           | 22 | 3 | 19 | QBLV100 |
| 1 1/4" | 16 | 53             | 56,5           | 26 | 3 | 32 | QBLV114 |
| 1 1/2" | 16 | 59             | 62,6           | 31 | 3 | 46 | QBLV112 |
| 2"     | 16 | 74             | 78,4           | 38 | 3 | 86 | QBLV200 |



### Q/BAV

Union end for solvent welding, ASTM series for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

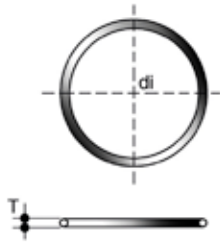
| d      | PN | d <sub>3</sub> | d <sub>4</sub> | L    | Z   | g    | Code    |
|--------|----|----------------|----------------|------|-----|------|---------|
| 1/2"   | 16 | 27,5           | 30,1           | 22,7 | 3,5 | 15,5 | QBAV012 |
| 3/4"   | 16 | 36             | 38,8           | 25,9 | 3,7 | 22,5 | QBAV034 |
| 1"     | 16 | 41,5           | 44,7           | 29,2 | 3   | 32,5 | QBAV100 |
| 1 1/4" | 16 | 53             | 56,5           | 32   | 5   | 57   | QBAV114 |
| 1 1/2" | 16 | 59             | 62,6           | 35   | 5   | 78   | QBAV112 |
| 2"     | 16 | 74             | 78,4           | 38,5 | 5,5 | 130  | QBAV200 |



### Q/BJV

Union end for solvent welding, JIS series for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

| d      | PN | d <sub>3</sub> | d <sub>4</sub> | L    | Z   | g   | Code    |
|--------|----|----------------|----------------|------|-----|-----|---------|
| 1/2"   | 16 | 27,5           | 30,1           | 30   | 3   | 16  | QBJV012 |
| 3/4"   | 16 | 36             | 38,8           | 35   | 3,5 | 21  | QBJV034 |
| 1"     | 16 | 41,5           | 44,7           | 40   | 3   | 40  | QBJV100 |
| 1 1/4" | 16 | 53             | 56,5           | 44   | 3   | 68  | QBJV114 |
| 1 1/2" | 16 | 59             | 62,6           | 55   | 4,5 | 105 | QBJV112 |
| 2"     | 16 | 74             | 78,4           | 62,9 | 5,5 | 175 | QBJV200 |

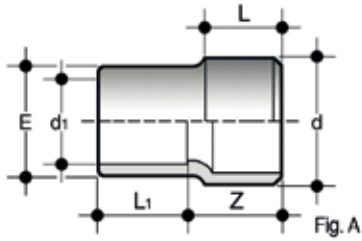


## O-RING

O-Ring for union types BIV, BIFV, BFV, BLV, BIRV, BIFOV, BIROV, BIFXV, BIRXV

| Union d | C    | di     | T    | d   | EPDM code | FKM code |
|---------|------|--------|------|-----|-----------|----------|
| 16      | 3062 | 15,54  | 2,62 | 16  | OR3062E   | OR3062F  |
| 20      | 4081 | 20,22  | 3,53 | 20  | OR4081E   | OR4081F  |
| 25      | 4112 | 28,17  | 3,53 | 25  | OR4112E   | OR4112F  |
| 32      | 4131 | 32,93  | 3,53 | 32  | OR4131E   | OR4131F  |
| 40      | 6162 | 40,65  | 5,34 | 40  | OR6162E   | OR6162F  |
| 50      | 6187 | 47     | 5,34 | 50  | OR6187E   | OR6187F  |
| 63      | 6237 | 59,69  | 5,34 | 63  | OR6237E   | OR6237F  |
| 75      | 6300 | 75,57  | 5,34 | 75  | OR6300E   | OR6300F  |
| 90      | 6362 | 91,45  | 5,34 | 90  | OR6362E   | OR0185F  |
| 110     | 6450 | 113,67 | 5,34 | 110 | OR6450E   | OR6450F  |



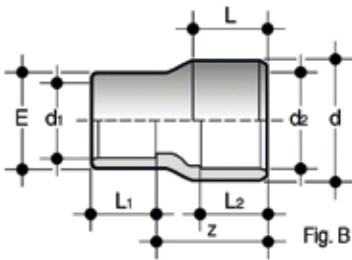


### RIV

Reducer: solvent weld spigot (d), solvent weld socket (d1 reduced) (Fig.A)

|    | d x d <sub>1</sub> | PN | E   | L   | L <sub>1</sub> | L <sub>2</sub> | Z   | g    | Code      |
|----|--------------------|----|-----|-----|----------------|----------------|-----|------|-----------|
| I  | 16 x 12            | 16 | 19  | 14  | 12             |                | 18  | 7    | RIV016012 |
| IF | 20 x 16            | 16 | 22  | 16  | 14             |                | 21  | 8    | RIV020016 |
| F  | 160 x 110          | 16 | 137 | 86  | 61             |                | 125 | 1270 | RIV160110 |
|    | 200 x 160          | 10 | 182 | 106 | 86             |                | 156 | 2540 | RIV200160 |

I: IIP 122 F: AFNOR NFO4  
RIV: the quality marks refer to dimensions d and d1

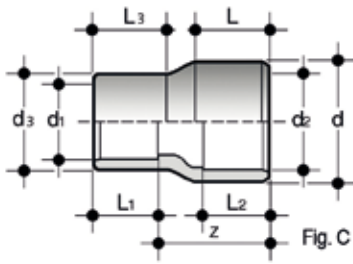


### RIV

Reducer: solvent weld spigot (d) or solvent weld socket (d2), solvent weld socket (d1 reduced) (Fig.B)

|    | d x d <sub>2</sub> x d <sub>1</sub> | PN | E   | L  | L <sub>1</sub> | L <sub>2</sub> | Z    | g   | Code         |
|----|-------------------------------------|----|-----|----|----------------|----------------|------|-----|--------------|
| IF | 25 x 20 x 16                        | 16 | 22  | 19 | 14             | 16             | 24,5 | 9   | RIV025020016 |
| IF | 25 x 20 x 20                        | 16 | 26  | 19 | 16             | 16             | 24,5 | 12  | RIV025020020 |
| IF | 32 x 25 x 16                        | 16 | 22  | 22 | 14             | 19             | 30   | 14  | RIV032025016 |
| IF | 32 x 25 x 20                        | 16 | 27  | 22 | 16             | 19             | 30   | 16  | RIV032025020 |
| IF | 32 x 25 x 25                        | 16 | 32  | 22 | 19             | 19             | 30   | 20  | RIV032025025 |
| IF | 40 x 32 x 20                        | 16 | 27  | 26 | 16             | 22             | 36   | 23  | RIV040032020 |
| IF | 40 x 32 x 25                        | 16 | 32  | 26 | 19             | 22             | 36   | 27  | RIV040032025 |
| IF | 40 x 32 x 32                        | 16 | 41  | 26 | 22             | 22             | 36   | 34  | RIV040032032 |
| I  | 50 x 40 x 20                        | 16 | 27  | 31 | 16             | 26             | 44   | 36  | RIV050040020 |
| IF | 50 x 40 x 25                        | 16 | 32  | 31 | 19             | 26             | 44   | 40  | RIV050040025 |
| IF | 50 x 40 x 32                        | 16 | 40  | 31 | 22             | 26             | 44   | 48  | RIV050040032 |
| IF | 50 x 40 x 40                        | 16 | 48  | 31 | 26             | 26             | 44   | 55  | RIV050040040 |
| I  | 63 x 50 x 25                        | 16 | 32  | 38 | 19             | 31             | 54   | 75  | RIV063050025 |
| IF | 63 x 50 x 32                        | 16 | 40  | 38 | 22             | 31             | 54   | 80  | RIV063050032 |
| IF | 63 x 50 x 40                        | 16 | 49  | 38 | 26             | 31             | 54   | 90  | RIV063050040 |
| IF | 63 x 50 x 50                        | 16 | 60  | 38 | 31             | 31             | 54   | 110 | RIV063050050 |
| IF | 75 x 63 x 50                        | 16 | 61  | 44 | 31             | 38             | 62   | 130 | RIV075063050 |
| IF | 75 x 63 x 63                        | 16 | 76  | 44 | 38             | 38             | 62   | 175 | RIV075063063 |
| I  | 110 x 90 x 50                       | 16 | 61  | 61 | 31             | 51             | 88   | 260 | RIV110090050 |
| I  | 110 x 90 x 63                       | 16 | 76  | 61 | 38             | 51             | 88   | 300 | RIV110090063 |
| I  | 110 x 90 x 75                       | 16 | 89  | 61 | 44             | 51             | 88   | 345 | RIV110090075 |
| IF | 110 x 90 x 90                       | 16 | 104 | 61 | 51             | 51             | 88   | 400 | RIV110090090 |

I: IIP 122 F: AFNOR NFO4  
RIV: the quality marks refer to dimensions d and d1

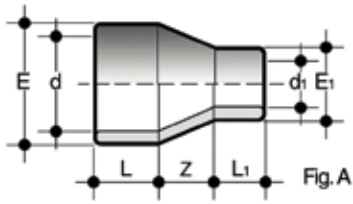


## RIV

Reducer: solvent weld spigot (d) or solvent weld socket (d2), solvent weld socket (d1 reduced) or solvent weld spigot (d3 reduced) (Fig.C)

|    | $d \times d_2 \times d_3 \times d_1$ | PN | E | L  | $L_1$ | $L_2$ | $L_3$ | Z  | g   | Code            |
|----|--------------------------------------|----|---|----|-------|-------|-------|----|-----|-----------------|
| I  | 90 x 75 x 50 x 40                    | 16 | - | 51 | 26    | 44    | 31    | 74 | 180 | RIV090075050040 |
| IF | 90 x 75 x 63 x 50                    | 16 | - | 51 | 31    | 44    | 38    | 74 | 200 | RIV090075063050 |
| F  | 90 x 75 x 75 x 63                    | 16 | - | 51 | 38    | 44    | 44    | 74 | 260 | RIV090075075063 |
|    | 90 x 75 x 90 x 75                    | 16 | - | 51 | 44    | 44    | 51    | 74 | 325 | RIV090075090075 |

I: IIP 122 F: AFNOR NF04  
RIV: the quality marks refer to dimensions d and d1

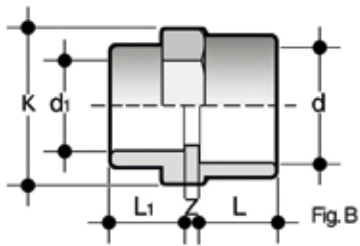


## MRIV

Reducer: solvent weld double socket (fig. A)

| $d \times d_1$ | PN | E   | $E_1$ | K | L   | $L_1$ | Z    | g    | Code       |
|----------------|----|-----|-------|---|-----|-------|------|------|------------|
| *180 x 125     | 10 | 214 | 154   | - | 95  | 68    | 48,8 | 2700 | MRIV180125 |
| *180 x 140     | 10 | 214 | 170   | - | 95  | 76    | 35   | 2700 | MRIV180140 |
| *180 x 160     | 10 | 214 | 190   | - | 95  | 86    | 17   | 2800 | MRIV180160 |
| *200 x 110     | 10 | 234 | 138   | - | 102 | 61    | 78   | 3100 | MRIV200110 |
| *200 x 125     | 10 | 234 | 154   | - | 102 | 68    | 65   | 3100 | MRIV200125 |
| *200 x 140     | 10 | 234 | 170   | - | 102 | 76    | 52   | 3200 | MRIV200140 |
| *200 x 160     | 10 | 234 | 190   | - | 102 | 86    | 35   | 3200 | MRIV200160 |
| *200 x 180     | 10 | 234 | 213   | - | 102 | 95    | 17   | 3300 | MRIV200180 |
| *225 x 110     | 10 | 258 | 138   | - | 103 | 62    | 100  | 4000 | MRIV225110 |
| *225 x 140     | 10 | 258 | 170   | - | 103 | 76    | 74   | 3800 | MRIV225140 |
| *225 x 160     | 10 | 258 | 190   | - | 103 | 86    | 57   | 4000 | MRIV225160 |
| *225 x 180     | 10 | 258 | 214   | - | 103 | 95    | 40   | 3500 | MRIV225180 |
| *225 x 200     | 10 | 258 | 234   | - | 103 | 102   | 22   | 3500 | MRIV225200 |
| *250 x 110     | 10 | 283 | 138   | - | 105 | 62    | 122  | 4500 | MRIV250110 |
| *250 x 125     | 10 | 283 | 154   | - | 105 | 68    | 108  | 4700 | MRIV250125 |
| *250 x 140     | 10 | 283 | 170   | - | 105 | 76    | 96   | 4600 | MRIV250140 |
| *250 x 160     | 10 | 283 | 190   | - | 105 | 86    | 78   | 4700 | MRIV250160 |
| *250 x 180     | 10 | 283 | 214   | - | 105 | 95    | 62   | 4600 | MRIV250180 |
| *250 x 200     | 10 | 283 | 234   | - | 105 | 102   | 44   | 4500 | MRIV250200 |
| *250 x 225     | 10 | 283 | 258   | - | 105 | 103   | 22   | 4900 | MRIV250225 |
| *280 x 110     | 10 | 317 | 138   | - | 101 | 62    | 150  | 5400 | MRIV280110 |
| *280 x 125     | 10 | 317 | 154   | - | 101 | 68    | 136  | 5400 | MRIV280125 |
| *280 x 140     | 10 | 317 | 170   | - | 101 | 76    | 123  | 5400 | MRIV280140 |
| *280 x 160     | 10 | 317 | 190   | - | 101 | 86    | 105  | 5700 | MRIV280160 |
| *280 x 180     | 10 | 317 | 214   | - | 101 | 95    | 87   | 5700 | MRIV280180 |
| *280 x 225     | 10 | 317 | 258   | - | 101 | 103   | 47   | 5500 | MRIV280225 |
| *280 x 250     | 10 | 317 | 283   | - | 101 | 105   | 26   | 5400 | MRIV280250 |
| *315 x 160     | 8  | 355 | 190   | - | 105 | 86    | 135  | 6400 | MRIV315160 |
| *315 x 180     | 8  | 355 | 214   | - | 105 | 95    | 117  | 6600 | MRIV315180 |
| *315 x 200     | 8  | 355 | 234   | - | 105 | 102   | 100  | 6800 | MRIV315200 |
| *315 x 225     | 8  | 355 | 258   | - | 105 | 103   | 79   | 7200 | MRIV315225 |
| *315 x 250     | 8  | 355 | 283   | - | 105 | 105   | 57   | 6800 | MRIV315250 |
| *315 x 280     | 8  | 355 | 317   | - | 105 | 101   | 31   | 7100 | MRIV315280 |
| *355 x 315     | 5  | 394 | 355   | - | 105 | 105   | 35   | 7500 | MRIV355315 |
| *400 x 315     | 5  | 435 | 355   | - | 105 | 105   | 75   | 9500 | MRIV400315 |
| *400 x 355     | 5  | 435 | 394   | - | 105 | 105   | 40   | 9000 | MRIV400355 |

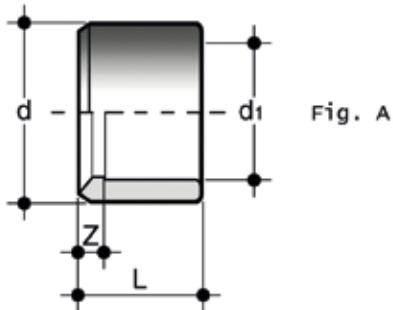
\*resale product



## MRIV

Reducer: solvent weld double socket (fig. B)

| $d \times d_1$ | PN | E | $E_1$ | K   | L  | $L_1$ | Z   | g   | Code       |
|----------------|----|---|-------|-----|----|-------|-----|-----|------------|
| 110 x 90       | 16 | - | -     | 130 | 61 | 51    | 4,5 | 555 | MRIV110090 |



## DIV

Reducing bush with solvent weld spigot (d) and solvent weld socket (d1 reduced) (fig. A)

|    | $d \times d_1$ | PN | L   | Z   | g    | Code      |
|----|----------------|----|-----|-----|------|-----------|
|    | 16 x 12        | 16 | 14  | 2   | 1    | DIV016012 |
| IF | 20 x 16        | 16 | 16  | 2   | 3    | DIV020016 |
| IF | 25 x 20        | 16 | 19  | 3   | 5    | DIV025020 |
| I  | 32 x 20        | 16 | 22  | 6   | 15   | DIV032020 |
| IF | 32 x 25        | 16 | 22  | 3,5 | 10   | DIV032025 |
| IF | 40 x 32        | 16 | 26  | 4   | 17   | DIV040032 |
| IF | 50 x 40        | 16 | 31  | 5   | 32   | DIV050040 |
| IF | 63 x 50        | 16 | 38  | 7   | 65   | DIV063050 |
| IF | 75 x 63        | 16 | 44  | 6   | 85   | DIV075063 |
| IF | 90 x 75        | 16 | 51  | 7   | 150  | DIV090075 |
| IF | 110 x 90       | 16 | 61  | 9   | 270  | DIV110090 |
| IF | 125 x 110      | 16 | 69  | 8   | 285  | DIV125110 |
| I  | 140 x 110      | 16 | 76  | 17  | 645  | DIV140110 |
| IF | 140 x 125      | 16 | 76  | 9,5 | 350  | DIV140125 |
| IF | 160 x 140      | 16 | 86  | 10  | 565  | DIV160140 |
|    | *225 x 200     | 16 | 119 | 13  | 1380 | DIV225200 |
|    | 250 x 200      | 10 | 132 | 25  | 3500 | DIV250200 |
|    | 250 x 225      | 10 | 132 | 12  | 2100 | DIV250225 |
|    | *280 x 250     | 10 | 147 | 15  | 2500 | DIV280250 |

I: IIP 122 F: AFNOR NFO4  
\*resale product

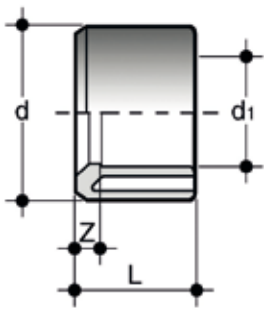


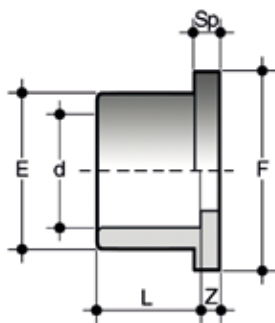
Fig. B

## DIV

Reducing bush with solvent weld spigot (d) and solvent weld socket (d1 reduced) (fig. B)

|   | d x d <sub>1</sub> | PN | L   | Z    | g    | Code       |
|---|--------------------|----|-----|------|------|------------|
| I | 40 x 20            | 16 | 26  | 9    | 25   | DIV040020  |
| I | 40 x 25            | 16 | 26  | 7    | 24   | DIV040025  |
| I | 50 x 32            | 16 | 31  | 8,5  | 35   | DIV050032  |
| I | 63 x 32            | 16 | 38  | 16   | 73   | DIV063032  |
| I | 63 x 40            | 16 | 38  | 11,5 | 75   | DIV063040  |
| I | 75 x 50            | 16 | 44  | 13   | 120  | DIV075050  |
| I | 90 x 50            | 16 | 51  | 20   | 200  | DIV090050  |
| I | 90 x 63            | 16 | 51  | 13   | 210  | DIV090063  |
| I | 110 x 63           | 16 | 61  | 23   | 340  | DIV110063  |
| I | 110 x 75           | 16 | 61  | 17   | 360  | DIV110075  |
| I | 140 x 90           | 16 | 76  | 25   | 730  | DIV140090  |
| I | 160 x 90           | 16 | 86  | 35   | 1040 | DIV160090  |
| I | 160 x 110          | 16 | 86  | 24   | 945  | DIV160110  |
|   | *180 x 160         | 10 | 96  | 10   | 710  | DIV180160  |
|   | *200 x 160         | 16 | 106 | 20   | 1310 | 1RRC121000 |
|   | *200 x 180         | 10 | 106 | 10   | 870  | DIV200180  |
|   | 225 x 160          | 16 | 119 | 33   | 1840 | DIV225160  |
|   | 250 x 160          | 10 | 132 | 45   | 3100 | DIV250160  |
|   | *250 x 180         | 10 | 132 | 36   | 3100 | DIV250180  |
|   | *250 x 200         | 10 | 146 | 40   | 4100 | DIV280200  |
|   | 280 x 225          | 10 | 147 | 27   | 4300 | DIV280225  |
|   | 315 x 200          | 10 | 165 | 58   | 8650 | DIV315200  |
|   | 315 x 225          | 10 | 165 | 45   | 8100 | DIV315225  |
|   | 315 x 250          | 10 | 165 | 33   | 5080 | DIV315250  |

I: IIP 122  
\*resale product

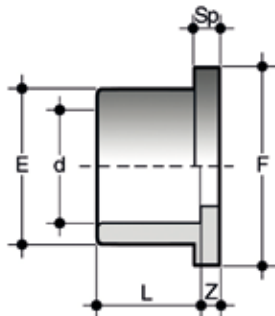


## QPV

Flat face stub according to DIN 8063 PN 10/16 with solvent weld socket

|   | d   | DN   | PN | E   | F   | L   | Sp | Z   | g    | Code   |
|---|-----|------|----|-----|-----|-----|----|-----|------|--------|
| I | 20  | 15   | 16 | 27  | 34  | 16  | 7  | 3,5 | 10   | QPV020 |
| I | 25  | 20   | 16 | 33  | 41  | 19  | 7  | 3   | 16   | QPV025 |
| I | 32  | 25   | 16 | 41  | 50  | 22  | 7  | 3   | 25   | QPV032 |
| I | 40  | 32   | 16 | 50  | 61  | 26  | 8  | 3   | 40   | QPV040 |
| I | 50  | 40   | 16 | 61  | 73  | 31  | 8  | 3   | 62   | QPV050 |
| I | 63  | 50   | 16 | 76  | 90  | 38  | 9  | 3   | 105  | QPV063 |
| I | 75  | 65   | 16 | 90  | 105 | 44  | 10 | 3   | 160  | QPV075 |
| I | 90  | 80   | 16 | 108 | 125 | 51  | 10 | 5   | 275  | QPV090 |
| I | 110 | 100  | 16 | 131 | 150 | 61  | 12 | 4   | 445  | QPV110 |
| I | 125 | 125  | 16 | 147 | 168 | 69  | 13 | 5   | 750  | QPV125 |
| I | 140 | 125  | 16 | 165 | 188 | 76  | 14 | 5   | 790  | QPV140 |
|   | 160 | 150  | 16 | 188 | 212 | 86  | 16 | 4,5 | 1140 | QPV160 |
|   | 200 | *200 | 16 | 230 | 254 | 106 | 18 | 5,5 | 1840 | QPV200 |

I: IIP 122

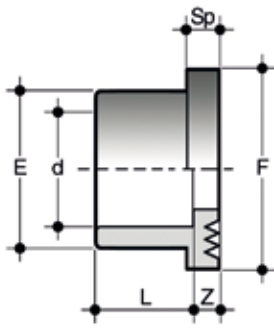


## QPV special flat for butterfly valves

Special flat stub in PVC-U for butterfly valve d140 and d225 on d125 and d200 pipe

|   | d     | DN  | PN | E   | F   | L   | Sp | Z  | g    | Code      |
|---|-------|-----|----|-----|-----|-----|----|----|------|-----------|
| I | *125  | 125 | 16 | 165 | 188 | 69  | 13 | 11 | 760  | QPV125FKE |
|   | **200 | 200 | 16 | 248 | 273 | 106 | 30 | 24 | 2700 | QPV200FKE |

\*to be used with ODV140 flange  
\*\*to be used with ODV225 flange

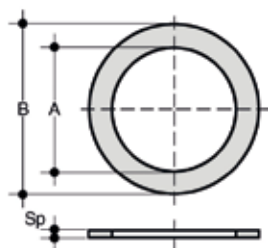


## QRV

Serrated face stub according to DIN 8063 PN 10/16 with solvent weld socket, for use with stubs QPV/QRV and flat gasket (for gasket sizes, see QHV)

|   | d   | DN  | PN | E   | F   | L   | Sp | Z    | g    | Code   |
|---|-----|-----|----|-----|-----|-----|----|------|------|--------|
| I | 40  | 32  | 16 | 50  | 61  | 26  | 8  | 3    | 40   | QRV040 |
| I | 50  | 40  | 16 | 61  | 73  | 31  | 8  | 3    | 62   | QRV050 |
| I | 63  | 50  | 16 | 76  | 90  | 38  | 9  | 3    | 105  | QRV063 |
| I | 75  | 65  | 16 | 90  | 105 | 44  | 10 | 3    | 160  | QRV075 |
| I | 90  | 80  | 16 | 108 | 125 | 51  | 10 | 5    | 275  | QRV090 |
| I | 110 | 100 | 16 | 131 | 150 | 61  | 12 | 4    | 445  | QRV110 |
| I | 125 | 125 | 16 | 147 | 168 | 69  | 13 | 5    | 750  | QRV125 |
| I | 140 | 125 | 16 | 165 | 188 | 76  | 14 | 5    | 790  | QRV140 |
| I | 160 | 150 | 16 | 188 | 212 | 86  | 16 | 4,5  | 1140 | QRV160 |
|   | 200 | 200 | 16 | 230 | 254 | 106 | 18 | 5,5  | 1840 | QRV200 |
|   | 225 | 200 | 16 | 245 | 273 | 119 | 25 | 5,5  | 1750 | QRV225 |
|   | 250 | 250 | 16 | 270 | 306 | 131 | 20 | 8,5  | 2140 | QRV250 |
|   | 280 | 250 | 10 | 307 | 327 | 147 | 32 | 14,5 | 3650 | QRV280 |
|   | 315 | 300 | 10 | 346 | 377 | 165 | 32 | 13   | 4950 | QRV315 |
|   | 355 | 350 | 4  | 386 | 413 | 184 | 29 | 8    | 5400 | QRV355 |
|   | 400 | 400 | 4  | 430 | 483 | 206 | 26 | 12   | 6500 | QRV400 |
|   | 450 | 450 | 4  | 486 | 538 | -   | 19 | 8    | 5200 | QRV450 |
|   | 500 | 500 | 4  | 532 | 574 | -   | 18 | -    | 3000 | QRV500 |

I: IIP 122

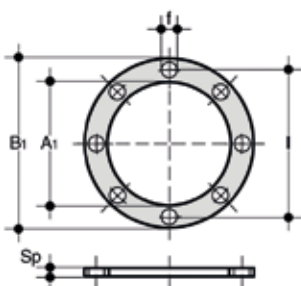


## QHV/X

Flat gasket in EPDM and FKM for DIN 2501 and EN 1092 stubs and flanges

| d           | DN  | A   | B    | Sp | EPDM code | FKM code |
|-------------|-----|-----|------|----|-----------|----------|
| 16          | 10  | 16  | 27   | 2  | QHVX016E  | QHVX016F |
| 20 - 1/2"   | 15  | 20  | 32   | 2  | QHVX020E  | QHVX020F |
| 25 - 3/4"   | 20  | 24  | 38,5 | 2  | QHVX025E  | QHVX025F |
| 32 - 1"     | 25  | 32  | 48   | 2  | QHVX032E  | QHVX032F |
| 40 - 1 1/4" | 32  | 40  | 59   | 2  | QHVX040E  | QHVX040F |
| 50 - 1 1/2" | 40  | 50  | 71   | 2  | QHVX050E  | QHVX050F |
| 63 - 2"     | 50  | 63  | 88   | 2  | QHVX063E  | QHVX063F |
| 75 - 2 1/2" | 65  | 75  | 104  | 2  | QHVX075E  | QHVX075F |
| 90 - 3"     | 80  | 90  | 123  | 2  | QHVX090E  | QHVX090F |
| 110 - 4"    | 100 | 110 | 148  | 3  | QHVX110E  | QHVX110F |
| 125         | 125 | 125 | 166  | 3  | QHVX125E  | QHVX125F |
| 140         | 125 | 140 | 186  | 3  | QHVX140E  | QHVX140F |
| 160 - 6"    | 150 | 160 | 211  | 3  | QHVX160E  | QHVX160F |
| 200         | 200 | 200 | 252  | 4  | QHVX200E  | QHVX200F |
| 225 - 8"    | 200 | 225 | 270  | 4  | QHVX225E  | QHVX225F |
| 250         | 250 | 250 | 305  | 4  | QHVX250E  | QHVX250F |

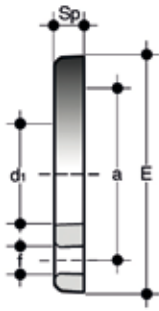




## QHV/Y

Self centering gasket in EPDM and FKM for stubs and flanges according to DIN 2501 and DIN 8063

| d           | DN  | A <sub>1</sub> | B <sub>1</sub> | F  | I     | U  | Sp | Code          |
|-------------|-----|----------------|----------------|----|-------|----|----|---------------|
| 20 - 1/2"   | 15  | 17             | 95             | 14 | 65    | 4  | 2  | QHVY020E      |
| 25 - 3/4"   | 20  | 22             | 107            | 14 | 76,3  | 4  | 2  | QHVY025E      |
| 32 - 1"     | 25  | 28             | 117            | 14 | 86,5  | 4  | 2  | QHVY032E      |
| 40 - 1" 1/4 | 32  | 36             | 142,5          | 18 | 101   | 4  | 2  | QHVY040E      |
| 50 - 1" 1/2 | 40  | 45             | 153,3          | 18 | 111   | 4  | 2  | QHVY050E      |
| 63 - 2"     | 50  | 57             | 168            | 18 | 125,5 | 4  | 2  | QHVY063E      |
| 75 - 2" 1/2 | 65  | 71             | 187,5          | 18 | 145,5 | 4  | 3  | QHVY075E      |
| 90 - 3"     | 80  | 84             | 203            | 18 | 160   | 8  | 3  | QHVY090E      |
| 110 - 4"    | 100 | 102            | 223            | 18 | 181   | 8  | 3  | QHVY110E      |
| 125         | 125 | 132            | 250            | 18 | 210   | 8  | 3  | QHVY125EDN125 |
| 140         | 125 | 132            | 250            | 18 | 210   | 8  | 3  | QHVY140E      |
| 160 - 6"    | 150 | 152            | 288.5          | 22 | 241,5 | 8  | 4  | QHVY160E      |
| 200         | 200 | 192            | 340            | 22 | 295   | 8  | 4  | QHVY200E      |
| 225 - 8"    | 200 | 215            | 340            | 22 | 295   | 8  | 4  | QHVY225E      |
| 250         | 250 | 238            | 395            | 22 | 350   | 8  | 4  | QHVY250E      |
| 280         | 250 | 265            | 395            | 22 | 350   | 12 | 4  | QHVY280E      |
| 315         | 300 | 290            | 462            | 22 | 400   | 12 | 4  | QHVY315E      |
| 355         | 350 | 337            | 500            | 22 | 460   | 16 | 2  | QHVY355E      |
| 400         | 400 | 384            | 555            | 22 | 515   | 16 | 2  | QHVY400E      |



## ODV

Backing ring for stubs QPV, QRV, QLV EN/ISO/DIN Drilling: - PN 10/16 up to DN150 - PN 10 from DN200

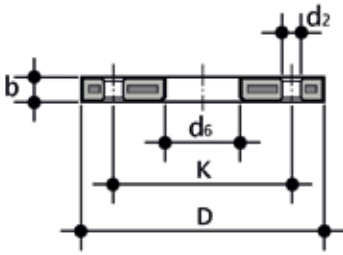
|   | d   | DN     | *MPA (bar) | a   | b         | d <sub>1</sub> | E   | f  | Sp | U  | ** (Nm) | g    | Code   |
|---|-----|--------|------------|-----|-----------|----------------|-----|----|----|----|---------|------|--------|
| I | 20  | 15     | 10         | 65  | M12 x 70  | 28             | 96  | 14 | 11 | 4  | <10     | 60   | ODV020 |
| I | 25  | 20     | 10         | 75  | M12 x 70  | 34             | 107 | 14 | 12 | 4  | <10     | 85   | ODV025 |
| I | 32  | 25     | 10         | 85  | M12 x 70  | 42             | 117 | 14 | 14 | 4  | 10      | 120  | ODV032 |
| I | 40  | 32     | 10         | 100 | M16 x 85  | 51             | 143 | 18 | 15 | 4  | 13      | 190  | ODV040 |
| I | 50  | 40     | 10         | 110 | M16 x 85  | 62             | 153 | 18 | 16 | 4  | 13      | 225  | ODV050 |
| I | 63  | 50     | 10         | 125 | M16 x 95  | 78             | 168 | 18 | 18 | 4  | 15      | 280  | ODV063 |
| I | 75  | 65     | 10         | 145 | M16 x 95  | 92             | 188 | 18 | 19 | 4  | 17      | 390  | ODV075 |
| I | 90  | 80     | 10         | 160 | M16 x 105 | 109            | 203 | 18 | 20 | 8  | 18      | 460  | ODV090 |
| I | 110 | 100    | 10         | 180 | M16 x 105 | 132            | 222 | 18 | 22 | 8  | 20      | 515  | ODV110 |
| I | 125 | 125    | 10         | 210 | M16 x 115 | 149            | 250 | 18 | 26 | 8  | 25      | 960  | ODV125 |
| I | 140 | 125    | 10         | 210 | M16 x 120 | 166            | 251 | 18 | 26 | 8  | 25      | 715  | ODV140 |
| I | 160 | 150    | 10         | 240 | M20 x 135 | 189            | 290 | 22 | 29 | 8  | 30      | 915  | ODV160 |
| I | 200 | 200    | 10         | 295 | M20 x 140 | 235            | 340 | 22 | 30 | 8  | 45      | 1210 | ODV200 |
| I | 225 | 200    | 10         | 295 | M20 x 140 | 252            | 340 | 22 | 30 | 8  | 50      | 1090 | ODV225 |
| I | 250 | 250    | 10         | 350 | M20 x 150 | 278            | 396 | 22 | 34 | 12 | 60      | 1790 | ODV250 |
| I | 280 | 250    | 10         | 350 | M20 x 160 | 309            | 396 | 22 | 35 | 12 | 70      | 1880 | ODV280 |
| I | 315 | 300    | 10         | 400 | M20 x 180 | 349            | 465 | 22 | 40 | 12 | 50      | 3050 | ODV315 |
| I | 355 | ***350 | 4          | 460 | M20 x 180 | 386            | 505 | 22 | 32 | 16 | 70      | 3600 | ODV355 |
| I | 400 | ***400 | 4          | 515 | M20 x 180 | 434            | 565 | 25 | 33 | 16 | 55      | 4500 | ODV400 |
| I | 450 | ***450 | 4          | 565 | M22 x 160 | 489            | 615 | 25 | 32 | 20 | 65      | 4400 | ODV450 |
| I | 500 | ***500 | 4          | 600 | M20 x 160 | 540            | 650 | 25 | 31 | 20 | 70      | 4200 | ODV500 |

I: IIP 122

\*PMA maximum admissible working pressure

\*\* nominal tightening torque

\*\*\*resale product



## ODB

Steel core backing ring, PP/FRP coated, according to EN/ISO/DIN for stubs QRV, QPV. Drilling: PN 10/16 up to DN 150; PN 10 from DN 200

| d       | DN  | *PMA (bar) | b  | D   | d <sub>2</sub> | k   | M   | ** (Nm) | n | g    | Code   |
|---------|-----|------------|----|-----|----------------|-----|-----|---------|---|------|--------|
| 20      | 15  | 16         | 12 | 28  | 14             | 95  | M12 | 10      | 4 | 232  | ODB020 |
| 25      | 20  | 16         | 14 | 34  | 14             | 105 | M12 | 15      | 4 | 288  | ODB025 |
| 32      | 25  | 16         | 14 | 42  | 14             | 115 | M12 | 15      | 4 | 544  | ODB032 |
| 40      | 32  | 16         | 16 | 51  | 18             | 140 | M16 | 20      | 4 | 836  | ODB040 |
| 50      | 40  | 16         | 16 | 62  | 18             | 150 | M16 | 25      | 4 | 902  | ODB050 |
| 63      | 50  | 16         | 19 | 78  | 18             | 165 | M16 | 35      | 4 | 1074 | ODB063 |
| 75      | 65  | 16         | 19 | 92  | 18             | 188 | M16 | 40      | 4 | 1368 | ODB075 |
| 90      | 80  | 16         | 21 | 109 | 18             | 204 | M16 | 40      | 8 | 1516 | ODB090 |
| ***125  | 100 | 16         | 22 | 135 | 18             | 224 | M16 | 50      | 8 | 1938 | ODB125 |
| ****180 | 150 | 16         | 27 | 191 | 22             | 285 | M20 | 60      | 8 | 3298 | ODB180 |
| 200     | 200 | 16         | 28 | 235 | 22             | 240 | M20 | 75      | 8 | 5318 | ODB200 |

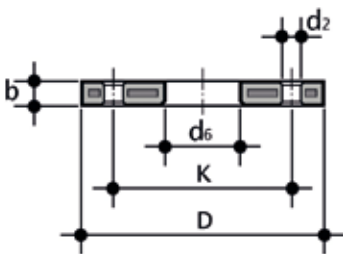
Maximum pressure values to EN/ISO/DIN. Pay attention to maximum admissible pressure values when selecting gaskets

\*PMA: maximum admissible pressure

\*\*nominal tightening torque

\*\*\* for use with stubs QPV110, QRV110

\*\*\*\* for use with stubs QPVI60, QRV160



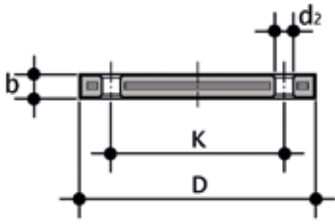
## ODB-SW

Steel core backing ring, PP/FRP coated, according to EN/ISO/DIN for stubs QRV and QPV. Drilling: PN 10/16 up to DN 150; PN 10 from DN 200

| d   | DN  | *PMA (bar) | b  | D   | d <sub>2</sub> | d <sub>6</sub> | k   | M   | ** (Nm) | n  | g    | Code           |
|-----|-----|------------|----|-----|----------------|----------------|-----|-----|---------|----|------|----------------|
| 140 | 125 | 16         | 24 | 252 | 18             | 166            | 210 | M16 | 60      | 8  | 2965 | SWODBD140DN125 |
| 225 | 200 | 16         | 27 | 340 | 22             | 248            | 295 | M20 | 75      | 8  | 5060 | SWODBD225DN200 |
| 280 | 250 | 16         | 30 | 395 | 22             | 309            | 350 | M20 | 95      | 12 | 7112 | SWODBD280DN250 |
| 315 | 300 | 16         | 34 | 445 | 22             | 349            | 400 | M20 | 100     | 12 | 9468 | SWODBD315DN300 |

\*PMA maximum admissible working pressure

\*\*nominal tightening torque



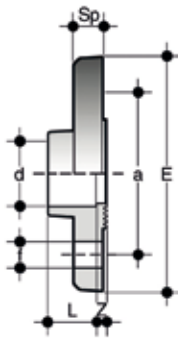
## ODBC

Steel core blind ring, PP/FRP coated, according to EN/ISO/DIN for stubs QRV, QPV. Drilling: PN 10/16 up to DN 150; PN 10 from DN 200

| d   | DN  | *PMA (bar) | b  | d <sub>2</sub> | D   | k   | M   | n  | ** (Nm) | g     | Code     |
|-----|-----|------------|----|----------------|-----|-----|-----|----|---------|-------|----------|
| 20  | 15  | 10         | 16 | 14             | 95  | 65  | M12 | 4  | 15      | 290   | ODBC020S |
| 25  | 20  | 10         | 12 | 18             | 105 | 75  | M12 | 4  | 15      | 380   | ODBC025S |
| 32  | 25  | 10         | 18 | 14             | 115 | 85  | M12 | 4  | 15      | 600   | ODBC032S |
| 40  | 32  | 10         | 17 | 18             | 140 | 100 | M16 | 4  | 25      | 830   | ODBC040S |
| 50  | 40  | 10         | 18 | 18             | 150 | 110 | M16 | 4  | 35      | 1105  | ODBC050S |
| 63  | 50  | 10         | 18 | 18             | 165 | 125 | M16 | 4  | 35      | 1308  | ODBC063S |
| 75  | 65  | 10         | 18 | 18             | 185 | 145 | M16 | 4  | 40      | 1580  | ODBC075S |
| 90  | 80  | 10         | 20 | 18             | 200 | 160 | M16 | 8  | 40      | 2244  | ODBC090S |
| 110 | 100 | 10         | 20 | 18             | 220 | 180 | M16 | 8  | 45      | 2829  | ODBC110S |
| 125 | 100 | 10         | 20 | 18             | 220 | 180 | M16 | 8  | 45      | 2873  | ODBC125S |
| 140 | 125 | 10         | 24 | 18             | 250 | 210 | M16 | 8  | 50      | 3920  | ODBC140S |
| 160 | 150 | 10         | 22 | 22             | 285 | 240 | M20 | 8  | 60      | 7181  | ODBC160S |
| 180 | 150 | 10         | 24 | 22             | 285 | 240 | M20 | 8  | 60      | 7130  | ODBC180S |
| 200 | 200 | 10         | 24 | 22             | 340 | 295 | M20 | 8  | 70      | 10580 | ODBC200S |
| 225 | 200 | 10         | 24 | 22             | 340 | 295 | M20 | 8  | 70      | 10664 | ODBC225S |
| 250 | 250 | 10         | 30 | 22             | 395 | 350 | M20 | 12 | 100     | 14040 | ODBC250S |
| 280 | 250 | 10         | 30 | 22             | 395 | 350 | M20 | 12 | 100     | 14040 | ODBC280S |
| 315 | 300 | 16         | 34 | 22             | 445 | 400 | M20 | 12 | 110     | 26480 | ODBC315S |

\*maximum pressure values according to EN/ISO/DIN. Pay attention to maximum admissible pressure values when selecting gaskets

\*\*nominal tightening torque



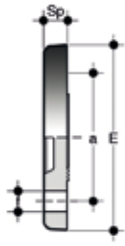
## FDV

Fixed flange with solvent weld socket according to EN/ISO/DIN with serrated raised face for flat gaskets (for gasket sizes, see QHV). Drilling: PN 10/16 up to DN 150; PN 10 from DN 200

| d   | DN  | *MPA (bar) | a   | E   | f  | L  | ** (Nm) | Sp | Z   | g   | Code   |
|-----|-----|------------|-----|-----|----|----|---------|----|-----|-----|--------|
| 25  | 20  | 10         | 75  | 105 | 14 | 19 | <10     | 12 | 4,5 | 105 | FDV025 |
| 32  | 25  | 10         | 85  | 115 | 14 | 22 | 10      | 14 | 4,5 | 150 | FDV032 |
| 40  | 32  | 10         | 100 | 140 | 18 | 26 | 13      | 15 | 4,5 | 230 | FDV040 |
| 50  | 40  | 10         | 110 | 150 | 18 | 31 | 13      | 16 | 4,5 | 280 | FDV050 |
| 63  | 50  | 10         | 125 | 163 | 18 | 38 | 15      | 18 | 4,5 | 390 | FDV063 |
| 75  | 65  | 10         | 145 | 185 | 18 | 44 | 17      | 19 | 5   | 525 | FDV075 |
| 90  | 80  | 10         | 160 | 200 | 18 | 51 | 18      | 20 | 7   | 710 | FDV090 |
| 110 | 100 | 10         | 180 | 220 | 18 | 61 | 20      | 22 | 8   | 955 | FDV110 |

\*MPA: maximum admissible pressure

\*\*nominal tightening torque



## FCV

Blind flange drilled according to EN/ISO/DIN with serrated raised face for flat gaskets (for gasket sizes, see QHV). Drilling: PN 10/16 up to DN 175; PN 10 from DN 200

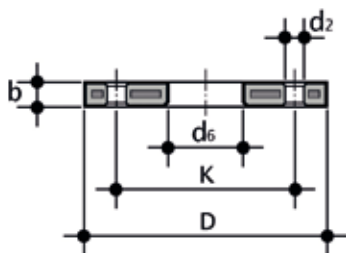
| d       | DN     | *MPA (bar) | a   | E   | f  | ** (Nm) | Sp | U | g    | Code   |
|---------|--------|------------|-----|-----|----|---------|----|---|------|--------|
| 25      | 20     | 10         | 75  | 105 | 14 | <10     | 12 | 4 | 95   | FCV025 |
| 32      | 25     | 10         | 85  | 115 | 14 | 10      | 14 | 4 | 135  | FCV032 |
| 40      | 32     | 10         | 100 | 141 | 18 | 13      | 15 | 4 | 225  | FCV040 |
| 50      | 40     | 10         | 110 | 150 | 18 | 13      | 16 | 4 | 270  | FCV050 |
| 63      | 50     | 10         | 125 | 165 | 18 | 15      | 18 | 4 | 355  | FCV063 |
| 75      | 65     | 10         | 145 | 186 | 18 | 17      | 19 | 4 | 510  | FCV075 |
| 90      | 80     | 10         | 160 | 201 | 18 | 18      | 20 | 8 | 675  | FCV090 |
| 110     | 100    | 10         | 180 | 221 | 18 | 20      | 22 | 8 | 915  | FCV110 |
| 180     | ***175 | 10         | 270 | 315 | 22 | 45      | 30 | 8 | 3100 | FCV180 |
| 200-225 | ***200 | 10         | 295 | 340 | 22 | 60      | 30 | 8 | 3800 | FCV200 |

Surface with roughness deriving from the phonographic trace of the turning

\*MPA: maximum admissible pressure

\*\*nominal tightening torque

\*\*\*resale product

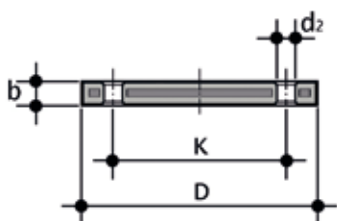


## OAB

Steel core backing ring, PP/FRP coated, according to ANSI B16.5 cl.150 for stubs QRV, QPV

| Inch  | DN  | *MPA (bar) | b  | D   | d2 mm | d <sub>2</sub> inch | d <sub>6</sub> | kmm   | k inch | ** (Nm) | n | g    | Code   |
|-------|-----|------------|----|-----|-------|---------------------|----------------|-------|--------|---------|---|------|--------|
| 1/2"  | 20  | 16         | 12 | 95  | 16    | 5/8"                | 28             | 60,4  | 2"3/8  | 15      | 4 | 200  | OAB012 |
| 3/4"  | 25  | 16         | 12 | 102 | 16    | 5/8"                | 34             | 69,7  | 2"3/4  | 15      | 4 | 240  | OAB034 |
| 1"    | 32  | 16         | 16 | 114 | 16    | 5/8"                | 42             | 79,2  | 3"1/8  | 15      | 4 | 490  | OAB100 |
| 1"1/4 | 40  | 16         | 16 | 130 | 16    | 5/8"                | 51             | 88,7  | 3"1/2  | 25      | 4 | 670  | OAB114 |
| 1"1/2 | 50  | 16         | 18 | 133 | 16    | 5/8"                | 62             | 98,3  | 3"7/8  | 35      | 4 | 640  | OAB112 |
| 2"    | 63  | 16         | 18 | 162 | 20    | 3/4"                | 78             | 120,0 | 4"3/4  | 35      | 4 | 1000 | OAB200 |
| 2"1/2 | 75  | 16         | 18 | 184 | 20    | 3/4"                | 92             | 139,7 | 5"1/2  | 40      | 4 | 1310 | OAB212 |
| 3"    | 90  | 16         | 18 | 194 | 20    | 3/4"                | 111            | 152,4 | 6"     | 40      | 4 | 1250 | OAB300 |
| 4"    | 110 | 16         | 18 | 229 | 20    | 3/4"                | 133            | 190,6 | 7"1/2  | 40      | 8 | 1660 | OAB400 |

\* MPA: maximum admissible working pressure  
 \*\*nominal tightening torque

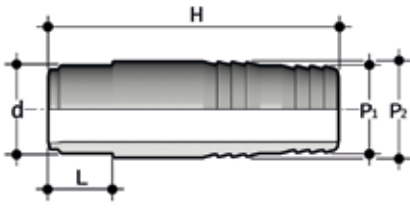


## OABC

Steel core blind flange, PP/FRP coated, according to ANSI B16.5 cl.150

| inch  | DN  | *MPA (bar) | B  | D   | d2 mm | d <sub>2</sub> inch | Kmm    | Kinch | ** (Nm) | n | g    | Code    |
|-------|-----|------------|----|-----|-------|---------------------|--------|-------|---------|---|------|---------|
| 1/2"  | 15  | 16         | 12 | 95  | 16    | 5/8"                | 60,45  | 2"3/8 | 15      | 4 | 200  | OABC012 |
| 3/4"  | 20  | 16         | 12 | 102 | 16    | 5/8"                | 69,85  | 2"3/4 | 15      | 4 | 240  | OABC034 |
| 1"    | 25  | 16         | 16 | 114 | 16    | 5/8"                | 79,25  | 3"1/8 | 15      | 4 | 370  | OABC100 |
| 1"1/4 | 32  | 16         | 16 | 130 | 16    | 5/8"                | 88,90  | 3"1/2 | 25      | 4 | 530  | OABC114 |
| 1"1/2 | 40  | 16         | 18 | 133 | 16    | 5/8"                | 98,55  | 3"7/8 | 35      | 4 | 560  | OABC112 |
| 2"    | 50  | 16         | 18 | 162 | 20    | 3/4"                | 120,65 | 4"3/4 | 35      | 4 | 810  | OABC200 |
| 2"1/2 | 65  | 16         | 18 | 184 | 20    | 3/4"                | 139,70 | 5"1/2 | 40      | 4 | 1070 | OABC212 |
| 3"    | 80  | 16         | 18 | 194 | 20    | 3/4"                | 152,40 | 6"    | 40      | 4 | 1030 | OABC300 |
| 4"    | 100 | 16         | 18 | 229 | 20    | 3/4"                | 190,50 | 7"1/2 | 40      | 8 | 1570 | OABC400 |

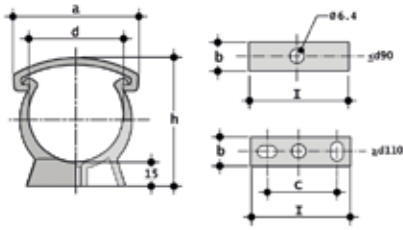
\* MPA: maximum admissible working pressure  
 \*\*nominal tightening torque



## AIV

Hose adaptor with solvent weld spigot

| d x P <sub>2</sub> x P <sub>1</sub> | PN | H   | L  | g   | Code         |
|-------------------------------------|----|-----|----|-----|--------------|
| 12 x 14 x 12                        | 16 | 56  | 12 | 6   | AIV012014012 |
| 16 x 18 x 16                        | 16 | 60  | 14 | 12  | AIV016018016 |
| 20 x 22 x 20                        | 16 | 67  | 16 | 17  | AIV020022020 |
| 25 x 27 x 25                        | 16 | 81  | 19 | 26  | AIV025027025 |
| 32 x 32 x 30                        | 16 | 98  | 22 | 40  | AIV032032030 |
| 40 x 42 x 40                        | 16 | 104 | 26 | 78  | AIV040042040 |
| 50 x 52 x 50                        | 16 | 111 | 31 | 113 | AIV050052050 |
| 63 x 64 x 60                        | 16 | 123 | 38 | 170 | AIV063064060 |



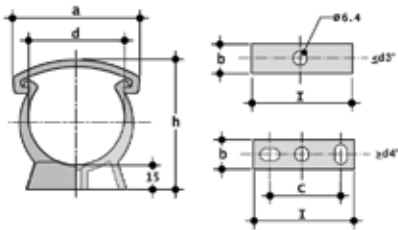
## ZIKM

Pipe clip for ISO-DIN pipes in PP\*

| d   | a   | b  | C   | h   | l   | Code    |
|-----|-----|----|-----|-----|-----|---------|
| 16  | 26  | 18 | -   | 33  | 16  | ZIKM016 |
| 20  | 33  | 14 | -   | 38  | 20  | ZIKM020 |
| 25  | 41  | 14 | -   | 44  | 25  | ZIKM025 |
| 32  | 49  | 15 | -   | 51  | 32  | ZIKM032 |
| 40  | 58  | 16 | -   | 60  | 40  | ZIKM040 |
| 50  | 68  | 17 | -   | 71  | 60  | ZIKM050 |
| 63  | 83  | 18 | -   | 84  | 63  | ZIKM063 |
| 75  | 96  | 19 | -   | 97  | 75  | ZIKM075 |
| 90  | 113 | 20 | -   | 113 | 90  | ZIKM090 |
| 110 | 139 | 23 | 40  | 134 | 125 | ZIKM110 |
| 125 | 158 | 25 | 60  | 151 | 140 | ZIKM125 |
| 140 | 177 | 27 | 70  | 167 | 155 | ZIKM140 |
| 160 | 210 | 30 | 90  | 190 | 180 | ZIKM160 |
| 180 | 237 | 33 | 100 | 211 | 200 | ZIKM180 |

\*for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)

\*\*resale product



## ZAKM

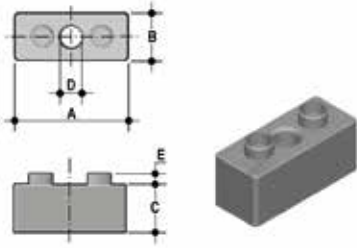
Pipe clip for ASTM pipes in PP\*

| d        | a   | b  | C  | h   | l   | Code    |
|----------|-----|----|----|-----|-----|---------|
| **3/8"   | 26  | 13 | -  | 34  | 16  | ZAKM038 |
| **1/2"   | 33  | 14 | -  | 39  | 20  | ZAKM012 |
| **3/4"   | 41  | 14 | -  | 45  | 25  | ZAKM034 |
| **1"     | 49  | 15 | -  | 52  | 32  | ZAKM100 |
| **1 1/4" | 58  | 16 | -  | 61  | 40  | ZAKM114 |
| **1 1/2" | 68  | 17 | -  | 67  | 50  | ZAKM112 |
| **2"     | 83  | 18 | -  | 80  | 63  | ZAKM200 |
| **2 1/2" | 96  | 19 | -  | 96  | 75  | ZAKM212 |
| **3"     | 118 | 20 | -  | 110 | 90  | ZAKM300 |
| **4"     | 140 | 25 | 60 | 135 | 140 | ZAKM400 |
| **6"     | 197 | 30 | 90 | 196 | 180 | ZAKM600 |

\*for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)

\*\*resale product





## DSM

Distance plates in PP for ZIKM pipe clips\*

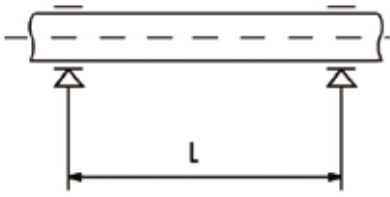
| d  | A  | B  | C    | D | E | Pack | Master | Code   |
|----|----|----|------|---|---|------|--------|--------|
| 32 | 33 | 16 | 14   | 8 | 4 | 20   | 120    | DSM032 |
| 40 | 41 | 17 | 17   | 8 | 4 | 10   | 80     | DSM040 |
| 50 | 51 | 18 | 17   | 8 | 4 | 10   | 50     | DSM050 |
| 63 | 64 | 19 | 22,5 | 8 | 4 | 10   | 40     | DSM063 |
| 75 | 76 | 20 | 34,5 | 8 | 4 | 10   | 40     | DSM075 |

\*for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)

\*\*resale product

# INSTALLATION

## POSITIONING OF ZIKM AND ZAKM PIPE CLIPS



The installation of thermoplastic pipe systems requires the use of support clips to prevent flexing and the resulting mechanical stresses.

The distance between the clips depends on the pipe material, SDR, surface temperature and the density of the conveyed fluid.

Before installing the clips, check the distances reported in the table below, as provided for by guidelines DVS 2210-01 for water pipes.

### Supporting PVC-U pipes conveying liquids of density 1 g/cm<sup>3</sup> (water and other fluids of equal intensity).

For pipes of PN 16:

| d mm | < 20° C | 30° C | 40° C | 50° C | 60° C |
|------|---------|-------|-------|-------|-------|
| 16   | 950     | 900   | 850   | 750   | 600   |
| 20   | 1100    | 1050  | 1000  | 900   | 700   |

For pipes of PN 10:

| d mm | < 20° C | 30° C | 40° C | 50° C | 60° C |
|------|---------|-------|-------|-------|-------|
| 25   | 1200    | 1150  | 1050  | 950   | 750   |
| 32   | 1350    | 1300  | 1250  | 1100  | 900   |
| 40   | 1450    | 1400  | 1350  | 1250  | 1000  |
| 50   | 1600    | 1550  | 1500  | 1400  | 1150  |
| 63   | 1800    | 1750  | 1700  | 1550  | 1300  |
| 75   | 2000    | 1900  | 1850  | 1700  | 1450  |
| 90   | 2200    | 2100  | 2000  | 1850  | 1550  |
| 110  | 2400    | 2300  | 2250  | 2050  | 1750  |
| 125  | 2550    | 2450  | 2400  | 2200  | 1850  |
| 140  | 2700    | 2600  | 2500  | 2300  | 1950  |
| 160  | 2900    | 2800  | 2700  | 2500  | 2100  |
| 180  | 3100    | 2950  | 2850  | 2650  | 2200  |

For different SDR values, multiply the data in the table by the following factors:

1.08 for SDR 13.6 / S6.3 / PN16 size range d25 - d400

1.15 for SDR 11 / S5 / PN20 entire size range

### Supporting PVC-U pipes conveying liquids of density other than 1 g/cm<sup>3</sup>

If the liquid being conveyed has a density other than 1 g/cm<sup>3</sup>, the distance L in the table must be multiplied by the factors in the table below.

| Fluid density in g/cm <sup>3</sup> | Support factor   |
|------------------------------------|--|
| 1,25                               | 0,96   |
| 1,50                               | 0,92   |
| < 0,01                             | 1.42 for SDR 21 / S10 / PN10<br>1.30 for SDR 13.6 / S6.3 / PN16<br>1.20 for SDR 11 / S5 / PN20 |