



ACESSÓRIOS EM FERRO  
MALEÁVEL  
E JUNTAS RÁPIDAS

UNIÕES E ACESSÓRIOS  
RANHURADOS



TABELA Nº 14 - MAIO 2010

# FITTINGS / UNE-EN-10242 /



## CERTIFICADOS DE QUALIDADE



## CERTIFICADOS DE PRODUTO





# ACESSÓRIOS



## INDICE

Acessórios em ferro maleável

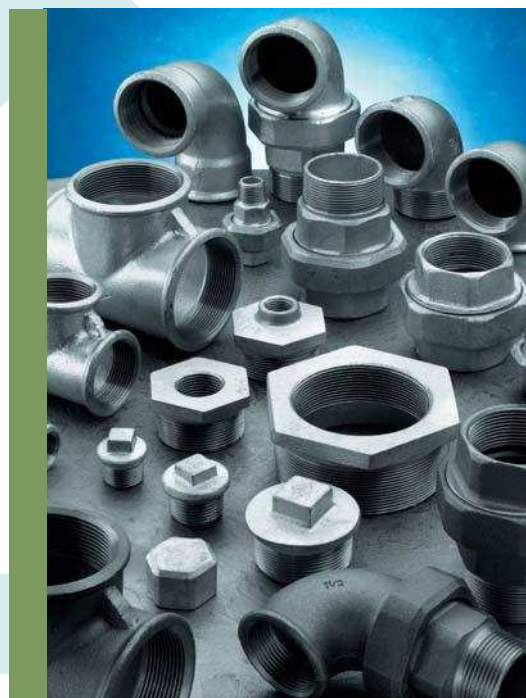
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Juntas rápidas

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**ACESSÓRIOS EM FERRO  
MALEÁVEL**



**UNIÕES E ACESSÓRIOS  
RANHURADOS**



**JUNTAS RÁPIDAS**

EN 10242  
(1994)  
ISO 49

ACESSÓRIOS EM FERRO MALEÁVEL



1



1A



2



2A



3



92



92R



95



96



97



131



165



180



220



221



270



271



280



281



290



320



321



330



331



340



374



526



529



531

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |     |    |
| 40                                                                                  | 41                                                                                  | 85                                                                                  | 90                                                                                    | 90R                                                                                   |
|    |    |    |    |    |
| 98                                                                                  | 120                                                                                 | 121                                                                                 | 130                                                                                   | 130R                                                                                  |
|   |   |   |    |   |
| 223                                                                                 | 240                                                                                 | 241                                                                                 | 245                                                                                   | 246                                                                                   |
|  |  |  |  |  |
| 291                                                                                 | 294                                                                                 | 300                                                                                 | 310                                                                                   | 312                                                                                   |
|  |  |  |  |  |
| 341                                                                                 | 344                                                                                 | 370                                                                                 | 371                                                                                   | 372                                                                                   |

# ACESSÓRIOS



## 1

CURVA M/F 90°

| Ø      | NEGRO    |  | GALVANIZADO |  | unidades |    |
|--------|----------|--|-------------|--|----------|----|
|        | COD.     |  | COD.        |  |          |    |
| 1/8"   | 01001000 |  | 01005000    |  | 200      | 10 |
| 1/4"   | 01001001 |  | 01005001    |  | 250      | 10 |
| 3/8"   | 01001002 |  | 01005002    |  | 170      | 10 |
| 1/2"   | 01001003 |  | 01005003    |  | 110      | 10 |
| 3/4"   | 01001004 |  | 01005004    |  | 60       | 10 |
| 1"     | 01001005 |  | 01005005    |  | 35       | 10 |
| 1 1/4" | 01001006 |  | 01005006    |  | 17       |    |
| 1 1/2" | 01001007 |  | 01005007    |  | 12       |    |
| 2"     | 01001008 |  | 01005008    |  | 6        |    |
| 2 1/2" | 01001009 |  | 01005009    |  | 3        |    |
| 3"     | 0100100A |  | 0100500A    |  | 4        |    |
| 4"     | 0100100C |  | 0100500C    |  | 2        |    |



## 1A

CURVA M/F CURTA 90°

| Ø      | NEGRO    |  | GALVANIZADO |  | unidades |    |
|--------|----------|--|-------------|--|----------|----|
|        | COD.     |  | COD.        |  |          |    |
| 1/2"   | 01A01003 |  | 01A05003    |  | 100      | 10 |
| 3/4"   | 01A01004 |  | 01A05004    |  | 60       | 10 |
| 1"     | 01A01005 |  | 01A05005    |  | 40       |    |
| 1 1/4" | 01A01006 |  | 01A05006    |  | 20       |    |
| 1 1/2" | 01A01007 |  | 01A05007    |  | 15       |    |
| 2"     | 01A01008 |  | 01A05008    |  | 8        |    |



## 2

CURVA FÊMEA 90°

| Ø      | NEGRO    |  | GALVANIZADO |  | unidades |    |
|--------|----------|--|-------------|--|----------|----|
|        | COD.     |  | COD.        |  |          |    |
| 1/4"   | 02001001 |  | 02005001    |  | 200      | 10 |
| 3/8"   | 02001002 |  | 02005002    |  | 140      | 10 |
| 1/2"   | 02001003 |  | 02005003    |  | 90       | 10 |
| 3/4"   | 02001004 |  | 02005004    |  | 50       | 10 |
| 1"     | 02001005 |  | 02005005    |  | 28       |    |
| 1 1/4" | 02001006 |  | 02005006    |  | 14       |    |
| 1 1/2" | 02001007 |  | 02005007    |  | 10       |    |
| 2"     | 02001008 |  | 02005008    |  | 5        |    |
| 2 1/2" | 02001009 |  | 02005009    |  | 2        |    |
| 3"     | 0200100A |  | 0200500A    |  | 4        |    |
| 4"     | 0200100C |  | 0200500C    |  | 2        |    |



## 2A

CURVA FÊMEA CURTA 90°

| Ø      | NEGRO    |  | GALVANIZADO |  | unidades |    |
|--------|----------|--|-------------|--|----------|----|
|        | COD.     |  | COD.        |  |          |    |
| 1/2"   | 02A01003 |  | 02A05003    |  | 90       | 10 |
| 3/4"   | 02A01004 |  | 02A05004    |  | 50       | 10 |
| 1"     | 02A01005 |  | 02A05005    |  | 35       |    |
| 1 1/4" | 02A01006 |  | 02A05006    |  | 20       |    |
| 1 1/2" | 02A01007 |  | 02A05007    |  | 14       |    |
| 2"     | 02A01008 |  | 02A05008    |  | 8        |    |



## 3

CURVA MACHO 90°

| Ø      | NEGRO    |  | GALVANIZADO |  | unidades |    |
|--------|----------|--|-------------|--|----------|----|
|        | COD.     |  | COD.        |  |          |    |
| 1/4"   | 03001001 |  | 03005001    |  | 300      | 10 |
| 3/8"   | 03001002 |  | 03005002    |  | 200      | 10 |
| 1/2"   | 03001003 |  | 03005003    |  | 120      | 10 |
| 3/4"   | 03001004 |  | 03005004    |  | 70       | 10 |
| 1"     | 03001005 |  | 03005005    |  | 40       |    |
| 1 1/4" | 03001006 |  | 03005006    |  | 20       |    |
| 1 1/2" | 03001007 |  | 03005007    |  | 14       |    |
| 2"     | 03001008 |  | 03005008    |  | 7        |    |
| 2 1/2" | 03001009 |  | 03005009    |  | 3        |    |
| 3"     | 0300100A |  | 0300500A    |  | 5        |    |
| 4"     | 0300100C |  | 0300500C    |  | 2        |    |



## 40

CURVA M/F 45°

| Ø      | NEGRO    |  | GALVANIZADO |  | unidades |    |
|--------|----------|--|-------------|--|----------|----|
|        | COD.     |  | COD.        |  |          |    |
| 1/4"   | 04001001 |  | 04005001    |  | 300      | 10 |
| 3/8"   | 04001002 |  | 04005002    |  | 200      | 10 |
| 1/2"   | 04001003 |  | 04005003    |  | 120      | 10 |
| 3/4"   | 04001004 |  | 04005004    |  | 80       | 10 |
| 1"     | 04001005 |  | 04005005    |  | 50       |    |
| 1 1/4" | 04001006 |  | 04005006    |  | 25       |    |
| 1 1/2" | 04001007 |  | 04005007    |  | 18       |    |
| 2"     | 04001008 |  | 04005008    |  | 10       |    |
| 2 1/2" | 04001009 |  | 04005009    |  | 6        |    |
| 3"     | 0400100A |  | 0400500A    |  | 3        |    |
| 4"     | 0400100C |  | 0400500C    |  | 4        |    |



# 41

CURVA FÊMEA 45°

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-----------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                   |
| 1/4"   | 04101001 |  | 04105001    |  | 220 10                                                                            |
| 3/8"   | 04101002 |  | 04105002    |  | 150 10                                                                            |
| 1/2"   | 04101003 |  | 04105003    |  | 100 10                                                                            |
| 3/4"   | 04101004 |  | 04105004    |  | 60 10                                                                             |
| 1"     | 04101005 |  | 04105005    |  | 40                                                                                |
| 1 1/4" | 04101006 |  | 04105006    |  | 22                                                                                |
| 1 1/2" | 04101007 |  | 04105007    |  | 15                                                                                |
| 2"     | 04101008 |  | 04105008    |  | 9                                                                                 |
| 2 1/2" | 04101009 |  | 04105009    |  | 4                                                                                 |
| 3"     | 0410100A |  | 0410500A    |  | 2                                                                                 |
| 4"     | 0410100C |  | 0410500C    |  | 2                                                                                 |



# 85

UNIÃO DE CRUZAMENTO

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 3/8"   | 08501002 |  | 08505002    |  | 100 10                                                                              |
| 1/2"   | 08501003 |  | 08505003    |  | 60 10                                                                               |
| 3/4"   | 08501004 |  | 08505004    |  | 30 10                                                                               |
| 1"     | 08501005 |  | 08505005    |  | 20                                                                                  |
| 1 1/4" | 08501006 |  | 08505006    |  | 10                                                                                  |



# 90

JOELHO SIMPLES 90°

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/8"   | 09001000 |  | 09005000    |  | 400 10                                                                              |
| 1/4"   | 09001001 |  | 09005001    |  | 350 10                                                                              |
| 3/8"   | 09001002 |  | 09005002    |  | 250 10                                                                              |
| 1/2"   | 09001003 |  | 09005003    |  | 120 10                                                                              |
| 3/4"   | 09001004 |  | 09005004    |  | 90 10                                                                               |
| 1"     | 09001005 |  | 09005005    |  | 50 10                                                                               |
| 1 1/4" | 09001006 |  | 09005006    |  | 30                                                                                  |
| 1 1/2" | 09001007 |  | 09005007    |  | 22                                                                                  |
| 2"     | 09001008 |  | 09005008    |  | 12                                                                                  |
| 2 1/2" | 09001009 |  | 09005009    |  | 7                                                                                   |
| 3"     | 0900100A |  | 0900500A    |  | 4                                                                                   |
| 4"     | 0900100C |  | 0900500C    |  | 2                                                                                   |
| 5"     |          |  | 0900500D    |  | 2                                                                                   |
| 6"     |          |  | 0900500E    |  | 1                                                                                   |



# 90R

JOELHO DE REDUÇÃO  
90° F/F

| Ø             | NEGRO    |  | GALVANIZADO |  |  |
|---------------|----------|--|-------------|--|---------------------------------------------------------------------------------------|
|               | COD.     |  | COD.        |  |                                                                                       |
| 1/2"-3/8"     | 09001032 |  | 09005032    |  | 120 10                                                                                |
| 3/4"-3/8"     | 09001042 |  | 09005042    |  | 90 10                                                                                 |
| 3/4"-1/2"     | 09001043 |  | 09005043    |  | 90 10                                                                                 |
| 1"-1/2"       | 09001053 |  | 09005053    |  | 50 10                                                                                 |
| 1"-3/4"       | 09001054 |  | 09005054    |  | 50 10                                                                                 |
| 1 1/4"-1/2"   | 09001063 |  | 09005063    |  | 50 10                                                                                 |
| 1 1/4"-3/4"   | 09001064 |  | 09005064    |  | 50 10                                                                                 |
| 1 1/4"-1"     | 09001065 |  | 09005065    |  | 40                                                                                    |
| 1 1/2"-3/4"   | 09001074 |  | 09005074    |  | 30                                                                                    |
| 1 1/2"-1"     | 09001075 |  | 09005075    |  | 35                                                                                    |
| 1 1/2"-1 1/4" | 09001076 |  | 09005076    |  | 25                                                                                    |
| 2"-1"         | 09001085 |  | 09005085    |  | 15                                                                                    |
| 2"-1 1/4"     | 09001086 |  | 09005086    |  | 15                                                                                    |
| 2"-1 1/2"     | 09001087 |  | 09005087    |  | 15                                                                                    |
| 2 1/2"-2"     |          |  | 09005098    |  | 8                                                                                     |



# 92

JOELHO M/F SIMPLES 90°

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/8"   | 09201000 |  | 09205000    |  | 500 10                                                                              |
| 1/4"   | 09201001 |  | 09205001    |  | 350 10                                                                              |
| 3/8"   | 09201002 |  | 09205002    |  | 250 10                                                                              |
| 1/2"   | 09201003 |  | 09205003    |  | 150 10                                                                              |
| 3/4"   | 09201004 |  | 09205004    |  | 90 10                                                                               |
| 1"     | 09201005 |  | 09205005    |  | 50 10                                                                               |
| 1 1/4" | 09201006 |  | 09205006    |  | 30                                                                                  |
| 1 1/2" | 09201007 |  | 09205007    |  | 22                                                                                  |
| 2"     | 09201008 |  | 09205008    |  | 12                                                                                  |
| 2 1/2" | 09201009 |  | 09205009    |  | 7                                                                                   |
| 3"     | 0920100A |  | 0920500A    |  | 4                                                                                   |
| 4"     | 0920100C |  | 0920500C    |  | 2                                                                                   |



# 92R

JOELHO DE REDUÇÃO  
90° M/F

| Ø               | NEGRO    |  | GALVANIZADO |  |  |
|-----------------|----------|--|-------------|--|---------------------------------------------------------------------------------------|
|                 | COD.     |  | COD.        |  |                                                                                       |
| 1/2" x 3/8"     | 09201032 |  | 09205032    |  | 150 10                                                                                |
| 3/4" x 1/2"     | 09201043 |  | 09205043    |  | 90 10                                                                                 |
| 1" x 3/4"       | 09201054 |  | 09205054    |  | 60 10                                                                                 |
| 1 1/4" x 1"     | 09201065 |  | 09205065    |  | 30                                                                                    |
| 1 1/2" x 1"     | 09201075 |  | 09205075    |  | 20                                                                                    |
| 1 1/2" x 1 1/4" | 09201076 |  | 09205076    |  | 20                                                                                    |
| 3/8" x 1/2"     | 09201023 |  | 09205023    |  | 150 10                                                                                |
| 1/2" x 3/4"     | 09201034 |  | 09205034    |  | 90 10                                                                                 |
| 3/4" x 1"       | 09201045 |  | 09205045    |  | 60 10                                                                                 |
| 1" x 1 1/4"     | 09201056 |  | 09205056    |  | 30                                                                                    |

# ACESSÓRIOS



95

JOELHO C/JUNÇÃO  
S/D FÊMEA

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 3/8"   | 09501002      | 09505002            | 70 10    |
| 1/2"   | 09501003      | 09505003            | 50 10    |
| 3/4"   | 09501004      | 09505004            | 40 10    |
| 1"     | 09501005      | 09505005            | 28       |
| 1 1/4" | 09501006      | 09505006            | 14       |
| 1 1/2" | 09501007      | 09505007            | 10       |
| 2"     | 09501008      | 09505008            | 6        |



96

JOELHO C/JUNÇÃO  
S/C FÊMEA

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 1/4"   | 09601001      | 09605001            | 120 10   |
| 3/8"   | 09601002      | 09605002            | 80 10    |
| 1/2"   | 09601003      | 09605003            | 50 10    |
| 3/4"   | 09601004      | 09605004            | 40 10    |
| 1"     | 09601005      | 09605005            | 28       |
| 1 1/4" | 09601006      | 09605006            | 14       |
| 1 1/2" | 09601007      | 09605007            | 10       |
| 2"     | 09601008      | 09605008            | 6        |
| 2 1/2" | 09601009      | 09605009            | 4        |
| 3"     | 0960100A      | 0960500A            | 2        |



97

JOELHO C/JUNÇÃO  
S/D M/F

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 3/8"   | 09701002      | 09705002            | 70 10    |
| 1/2"   | 09701003      | 09705003            | 50 10    |
| 3/4"   | 09701004      | 09705004            | 30 10    |
| 1"     | 09701005      | 09705005            | 23       |
| 1 1/4" | 09701006      | 09705006            | 12       |
| 1 1/2" | 09701007      | 09705007            | 10       |
| 2"     | 09701008      | 09705008            | 6        |



98

JOELHO C/JUNÇÃO  
S/C M/F

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 1/4"   | 09801001      | 09805001            | 120 10   |
| 3/8"   | 09801002      | 09805002            | 80 10    |
| 1/2"   | 09801003      | 09805003            | 50 10    |
| 3/4"   | 09801004      | 09805004            | 30 10    |
| 1"     | 09801005      | 09805005            | 23       |
| 1 1/4" | 09801006      | 09805006            | 12       |
| 1 1/2" | 09801007      | 09805007            | 10       |
| 2"     | 09801008      | 09805008            | 6        |
| 2 1/2" | 09801009      | 09805009            | 3        |
| 3"     | 0980100A      | 0980500A            | 2        |



120

JOELHO SIMPLES 45°

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 1/2"   | 12001003      | 12005003            | 150 10   |
| 3/4"   | 12001004      | 12005004            | 90 10    |
| 1"     | 12001005      | 12005005            | 60 10    |
| 1 1/4" | 12001006      | 12005006            | 30       |
| 1 1/2" | 12001007      | 12005007            | 20       |
| 2"     | 12001008      | 12005008            | 10       |



130

TÊ SIMPLES

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 1/8"   | 13001000      | 13005000            | 200 10   |
| 1/4"   | 13001001      | 13005001            | 220 10   |
| 3/8"   | 13001002      | 13005002            | 120 10   |
| 1/2"   | 13001003      | 13005003            | 70 10    |
| 3/4"   | 13001004      | 13005004            | 60 10    |
| 1"     | 13001005      | 13005005            | 30 10    |
| 1 1/4" | 13001006      | 13005006            | 20       |
| 1 1/2" | 13001007      | 13005007            | 14       |
| 2"     | 13001008      | 13005008            | 10       |
| 2 1/2" | 13001009      | 13005009            | 5        |
| 3"     | 1300100A      | 1300500A            | 4        |
| 4"     | 1300100C      | 1300500C            | 2        |
| 5"     |               | 1300500D            | 2        |
| 6"     |               | 1300500E            | 1        |



121

JOELHO M/F SIMPLES 45°

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidades |
|--------|---------------|---------------------|----------|
| 3/8"   | 12101002      | 12105002            | 200 10   |
| 1/2"   | 12101003      | 12105003            | 150 10   |
| 3/4"   | 12101004      | 12105004            | 100 10   |
| 1"     | 12101005      | 12105005            | 50 10    |
| 1 1/4" | 12101006      | 12105006            | 30       |
| 1 1/2" | 12101007      | 12105007            | 25       |
| 2"     | 12101008      | 12105008            | 12       |
| 2 1/2" | 12101009      | 12105009            | 8        |



# 130R

TÊ DE REDUÇÃO 90°

| Ø                    | COD.     | COD.     | 130R   | Ø                    | COD.     | COD.     | 130R  |
|----------------------|----------|----------|--------|----------------------|----------|----------|-------|
| 3/8"-1/4"-3/8"       | 13001212 | 13005212 | 150 10 | 1 1/2"-3/4"-1 1/4"   | 13001746 | 13005746 | 25 25 |
| 3/8"-1/2"-3/8"       | 13001232 | 13005232 | 120 10 | 1 1/2"-3/4"-1 1/2"   | 13001747 | 13005747 | 22 22 |
| 3/8"-3/4"-3/8"       | 13001242 | 13005242 | 90 10  | 1 1/2"-1"-1"         | 13001755 | 13005755 | 25 25 |
| 1/2"-1/4"-1/2"       | 13001313 | 13005313 | 110 10 | 1 1/2"-1"-1 1/4"     | 13001756 | 13005756 | 22 22 |
| 1/2"-3/8"-3/8"       | 13001322 | 13005322 | 110 10 | 1 1/2"-1"-1 1/2"     | 13001757 | 13005757 | 20 20 |
| 1/2"-3/8"-1/2"       | 13001323 | 13005323 | 110 10 | 1 1/2"-1 1/4"-1"     | 13001765 | 13005765 | 15 15 |
| 1/2"-1/2"-3/8"       | 13001332 | 13005332 | 110 10 | 1 1/2"-1 1/4"-1 1/4" | 13001766 | 13005766 | 18 18 |
| 1/2"-3/4"-3/8"       | 13001342 | 13005342 | 70 10  | 1 1/2"-1 1/4"-1 1/2" | 13001767 | 13005767 | 17 17 |
| 1/2"-3/4"-1/2"       | 13001343 | 13005343 | 70 10  | 1 1/2"-1 1/2"-1/2"   | 13001773 | 13005773 | 17 17 |
| 1/2"-1"-1/2"         | 13001353 | 13005353 | 60 10  | 1 1/2"-1 1/2"-3/4"   | 13001774 | 13005774 | 17 17 |
| 3/4"-1/4"-3/4"       | 13001414 | 13005414 | 70 10  | 1 1/2"-1 1/2"-1"     | 13001775 | 13005775 | 17 17 |
| 3/4"-3/8"-1/2"       | 13001423 | 13005423 | 70 10  | 1 1/2"-1 1/2"-1 1/4" | 13001776 | 13005776 | 15 15 |
| 3/4"-3/8"-3/4"       | 13001424 | 13005424 | 70 10  | 1 1/2"-2"-1 1/2"     | 13001787 | 13005787 | 10 10 |
| 3/4"-1/2"-3/8"       | 13001432 | 13005432 | 70 10  | 2"-1/2"-1 1/2"       | 13001837 | 13005837 | 18 18 |
| 3/4"-1/2"-1/2"       | 13001433 | 13005433 | 70 10  | 2"-1/2"-2"           | 13001838 | 13005838 | 15 15 |
| 3/4"-1/2"-3/4"       | 13001434 | 13005434 | 60 10  | 2"-3/4"-1 1/2"       | 13001847 | 13005847 | 16 16 |
| 3/4"-3/4"-3/8"       | 13001442 | 13005442 | 60 10  | 2"-3/4"-2"           | 13001848 | 13005848 | 15 15 |
| 3/4"-3/4"-1/2"       | 13001443 | 13005443 | 60 10  | 2"-1"-1 1/2"         | 13001857 | 13005857 | 15 15 |
| 3/4"-1"-1/2"         | 13001453 | 13005453 | 50 10  | 2"-1"-2"             | 13001858 | 13005858 | 12 12 |
| 3/4"-1"-3/4"         | 13001454 | 13005454 | 40 10  | 2"-1 1/4"-1"         | 13001865 | 13005865 | 12 12 |
| 3/4"-1 1/4"-3/4"     | 13001464 | 13005464 | 35 10  | 2"-1 1/4"-1 1/4"     | 13001866 | 13005866 | 12 12 |
| 1"-1/4"-1"           | 13001515 | 13005515 | 40 10  | 2"-1 1/4"-1 1/2"     | 13001867 | 13005867 | 12 12 |
| 1"-3/8"-3/4"         | 13001524 | 13005524 | 50 10  | 2"-1 1/4"-2"         | 13001868 | 13005868 | 12 12 |
| 1"-3/8"-1"           | 13001525 | 13005525 | 50 10  | 2"-1 1/2"-1"         | 13001875 | 13005875 | 12 12 |
| 1"-1/2"-1/2"         | 13001533 | 13005533 | 50 10  | 2"-1 1/2"-1 1/2"     | 13001877 | 13005877 | 10 10 |
| 1"-1/2"-3/4"         | 13001534 | 13005534 | 50 10  | 2"-1 1/2"-2"         | 13001878 | 13005878 | 10 10 |
| 1"-1/2"-1"           | 13001535 | 13005535 | 40 10  | 2"-2"-1/2"           | 13001883 | 13005883 | 10 10 |
| 1"-3/4"-1/2"         | 13001543 | 13005543 | 40 10  | 2"-2"-3/4"           | 13001884 | 13005884 | 10 10 |
| 1"-3/4"-3/4"         | 13001544 | 13005544 | 40 10  | 2"-2"-1"             | 13001885 | 13005885 | 10 10 |
| 1"-3/4"-1"           | 13001545 | 13005545 | 40 10  | 2"-2"-1 1/4"         | 13001886 | 13005886 | 10 10 |
| 1"-1"-3/8"           | 13001552 | 13005552 | 40 10  | 2"-2"-1 1/2"         | 13001887 | 13005887 | 10 10 |
| 1"-1"-1/2"           | 13001553 | 13005553 | 40 10  | 2"-2 1/2"-2"         | 13001898 | 13005898 | 6 6   |
| 1"-1"-3/4"           | 13001554 | 13005554 | 30 10  | 2 1/2"-1/2"-2 1/2"   | 13001939 | 13005939 | 8 8   |
| 1"-1 1/4"-3/4"       | 13001564 | 13005564 | 30     | 2 1/2"-3/4"-2 1/2"   | 13001949 | 13005949 | 8 8   |
| 1"-1 1/4"-1"         | 13001565 | 13005565 | 30     | 2 1/2"-1"-2 1/2"     | 13001959 | 13005959 | 8 8   |
| 1"-1 1/2"-1"         | 13001575 | 13005575 | 22     | 2 1/2"-1 1/4"-2 1/2" | 13001969 | 13005969 | 8 8   |
| 1 1/4"-3/8"-1 1/4"   | 13001626 | 13005626 | 30     | 2 1/2"-1 1/2"-2 1/2" | 13001979 | 13005979 | 8 8   |
| 1 1/4"-1/2"-1"       | 13001635 | 13005635 | 35     | 2 1/2"-2"-2"         | 13001988 | 13005988 | 6 6   |
| 1 1/4"-1/2"-1 1/4"   | 13001636 | 13005636 | 30     | 2 1/2"-2"-2 1/2"     | 13001989 | 13005989 | 6 6   |
| 1 1/4"-3/4"-1/2"     | 13001643 | 13005643 | 40     | 2 1/2"-2 1/2"-1 1/2" |          | 13005997 | 6 6   |
| 1 1/4"-3/4"-3/4"     | 13001644 | 13005644 | 35     | 2 1/2"-2 1/2"-2"     |          | 13005998 | 6 6   |
| 1 1/4"-3/4"-1"       | 13001645 | 13005645 | 32     | 3"-1/2"-3"           |          | 13005A3A | 5 5   |
| 1 1/4"-3/4"-1 1/4"   | 13001646 | 13005646 | 30     | 3"-1"-3"             | 13001A5A | 13005A5A | 5 5   |
| 1 1/4"-1"-3/8"       | 13001652 | 13005652 | 30     | 3"-1 1/4"-3"         | 13001A6A | 13005A6A | 4 4   |
| 1 1/4"-1"-1/2"       | 13001653 | 13005653 | 32     | 3"-1 1/2"-3"         | 13001A7A | 13005A7A | 4 4   |
| 1 1/4"-1"-3/4"       | 13001654 | 13005654 | 30     | 3"-2"-2"             |          | 13005A88 | 4 4   |
| 1 1/4"-1"-1"         | 13001655 | 13005655 | 28     | 3"-2"-3"             | 13001A8A | 13005A8A | 4 4   |
| 1 1/4"-1"-1 1/4"     | 13001656 | 13005656 | 25     | 3"-2 1/2"-3"         | 13001A9A | 13005A9A | 3 3   |
| 1 1/4"-1 1/4"-1/2"   | 13001663 | 13005663 | 30     | 3"-3"-2"             | 13005AA8 |          | 2 2   |
| 1 1/4"-1 1/4"-3/4"   | 13001664 | 13005664 | 25     | 4"-1/2"-4"           | 13001C3C | 13005C3C | 2 2   |
| 1 1/4"-1 1/4"-1"     | 13001665 | 13005665 | 25     | 4"-3/4"-4"           | 13001C4C | 13005C4C | 2 2   |
| 1 1/4"-1 1/2"-1"     | 13001675 | 13005675 | 20     | 4"-1"-4"             | 13001C5C | 13005C5C | 2 2   |
| 1 1/4"-1 1/2"-1 1/4" | 13001676 | 13005676 | 18     | 4"-1 1/2"-4"         | 13001C7C | 13005C7C | 2 2   |
| 1 1/4"-2"-1 1/4"     | 13001686 | 13005686 | 10     | 4"-2"-4"             | 13001C8C | 13005C8C | 2 2   |
| 1 1/2"-3/8"-1 1/2"   | 13001727 | 13005727 | 28     | 4"-2 1/2"-4"         | 13001C9C | 13005C9C | 2 2   |
| 1 1/2"-1/2"-1 1/4"   | 13001736 | 13005736 | 28     | 4"-3"-4"             | 13001CAC | 13005CAC | 2 2   |
| 1 1/2"-1/2"-1 1/2"   | 13001737 | 13005737 | 25     | 5"-4"-5"             |          | 13005DCD | 2 2   |

# ACESSÓRIOS



## 131

TÊ C/ RAMAL CURVO 90°

| Ø      | NEGRO    |  | GALVANIZADO |  |  | unids. |
|--------|----------|--|-------------|--|-----------------------------------------------------------------------------------|--------|
|        | COD.     |  | COD.        |  |                                                                                   |        |
| 1/2"   | 13101003 |  | 13105003    |  | 50                                                                                | 10     |
| 3/4"   | 13101004 |  | 13105004    |  | 40                                                                                | 10     |
| 1"     | 13101005 |  | 13105005    |  | 20                                                                                | 10     |
| 1 1/4" | 13101006 |  | 13105006    |  | 14                                                                                |        |
| 1 1/2" | 13101007 |  | 13105007    |  | 8                                                                                 |        |
| 2"     | 13101008 |  | 13105008    |  | 4                                                                                 |        |
| 2 1/2" | 13101009 |  | 13105009    |  | 2                                                                                 |        |
| 3"     | 1310100A |  | 1310500A    |  | 2                                                                                 |        |



## 165

FORQUILHA 45°

| Ø      | NEGRO    |  | GALVANIZADO |  |  | unids. |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|--------|
|        | COD.     |  | COD.        |  |                                                                                     |        |
| 1/2"   | 16501003 |  | 16505003    |  | 50                                                                                  | 10     |
| 3/4"   | 16501004 |  | 16505004    |  | 30                                                                                  | 10     |
| 1"     | 16501005 |  | 16505005    |  | 20                                                                                  |        |
| 1 1/4" | 16501006 |  | 16505006    |  | 10                                                                                  |        |
| 1 1/2" | 16501007 |  | 16505007    |  | 6                                                                                   |        |
| 2"     | 16501008 |  | 16505008    |  | 4                                                                                   |        |



## 180

CRUZETA

| Ø      | NEGRO    |  | GALVANIZADO |  |  | unids. |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|--------|
|        | COD.     |  | COD.        |  |                                                                                     |        |
| 3/8"   | 18001002 |  | 18005002    |  | 100                                                                                 | 10     |
| 1/2"   | 18001003 |  | 18005003    |  | 70                                                                                  | 10     |
| 3/4"   | 18001004 |  | 18005004    |  | 40                                                                                  | 10     |
| 1"     | 18001005 |  | 18005005    |  | 28                                                                                  |        |
| 1 1/4" | 18001006 |  | 18005006    |  | 16                                                                                  |        |
| 1 1/2" | 18001007 |  | 18005007    |  | 10                                                                                  |        |
| 2"     | 18001008 |  | 18005008    |  | 7                                                                                   |        |
| 2 1/2" | 18001009 |  | 18005009    |  | 3                                                                                   |        |
| 3"     | 1800100A |  | 1800500A    |  | 2                                                                                   |        |
| 4"     | 1800100C |  | 1800500C    |  | 1                                                                                   |        |



## 220

FORQUILHA FISGA

| Ø    | NEGRO    |  | GALVANIZADO |  |  | unids. |
|------|----------|--|-------------|--|---------------------------------------------------------------------------------------|--------|
|      | COD.     |  | COD.        |  |                                                                                       |        |
| 3/8" | 22001002 |  | 22005002    |  | 100                                                                                   | 10     |
| 1/2" | 22001003 |  | 22005003    |  | 60                                                                                    | 10     |
| 3/4" | 22001004 |  | 22005004    |  | 40                                                                                    | 10     |
| 1"   | 22001005 |  | 22005005    |  | 20                                                                                    |        |



## 221

JOELHO 3 VIAS

| Ø      | NEGRO    |  | GALVANIZADO |  |  | unids. |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|--------|
|        | COD.     |  | COD.        |  |                                                                                     |        |
| 3/8"   | 22101002 |  | 22105002    |  | 120                                                                                 | 10     |
| 1/2"   | 22101003 |  | 22105003    |  | 80                                                                                  | 10     |
| 3/4"   | 22101004 |  | 22105004    |  | 50                                                                                  | 10     |
| 1"     | 22101005 |  | 22105005    |  | 40                                                                                  | 10     |
| 1 1/4" | 22101006 |  | 22105006    |  | 20                                                                                  |        |
| 1 1/2" | 22101007 |  | 22105007    |  | 13                                                                                  |        |
| 2"     | 22101008 |  | 22105008    |  | 8                                                                                   |        |



## 223

TÊ 4 VIAS

| Ø    | NEGRO    |  | GALVANIZADO |  |  | unids. |
|------|----------|--|-------------|--|---------------------------------------------------------------------------------------|--------|
|      | COD.     |  | COD.        |  |                                                                                       |        |
| 1/2" | 22301003 |  | 22305003    |  | 60                                                                                    |        |
| 3/4" | 22301004 |  | 22305004    |  | 40                                                                                    |        |
| 1"   | 22301005 |  | 22305005    |  | 25                                                                                    |        |



# 240

## UNIÃO DE REDUÇÃO

| Ø             | NEGRO<br>COD. | GALVANIZADO<br>COD. |  |    |
|---------------|---------------|---------------------|-----------------------------------------------------------------------------------|----|
| 1/4"-1/8"     | 24011010      | 24015010            | 400                                                                               | 10 |
| 3/8"-1/8"     | 24011020      | 24015020            | 400                                                                               | 10 |
| 3/8"-1/4"     | 24011021      | 24015021            | 400                                                                               | 10 |
| 1/2"-1/4"     | 24001031      | 24005031            | 150                                                                               | 10 |
| 1/2"-3/8"     | 24001032      | 24005032            | 200                                                                               | 10 |
| 3/4"-1/4"     | 24001041      | 24005041            | 140                                                                               | 10 |
| 3/4"-3/8"     | 24001042      | 24005042            | 140                                                                               | 10 |
| 3/4"-1/2"     | 24001043      | 24005043            | 140                                                                               | 10 |
| 1"-3/8"       | 24001052      | 24005052            | 100                                                                               | 10 |
| 1"-1/2"       | 24001053      | 24005053            | 90                                                                                | 10 |
| 1"-3/4"       | 24001054      | 24005054            | 80                                                                                | 10 |
| 1 1/4"-3/8"   | 24001062      | 24005062            | 60                                                                                | 10 |
| 1 1/4"-1/2"   | 24001063      | 24005063            | 60                                                                                | 10 |
| 1 1/4"-3/4"   | 24001064      | 24005064            | 60                                                                                | 10 |
| 1 1/4"-1"     | 24001065      | 24005065            | 50                                                                                | 10 |
| 1 1/2"-1/2"   | 24001073      | 24005073            | 50                                                                                |    |
| 1 1/2"-3/4"   | 24001074      | 24005074            | 50                                                                                |    |
| 1 1/2"-1"     | 24001075      | 24005075            | 45                                                                                |    |
| 1 1/2"-1 1/4" | 24001076      | 24005076            | 40                                                                                |    |
| 2"-1/2"       | 24001083      | 24005083            | 30                                                                                |    |
| 2"-3/4"       | 24001084      | 24005084            | 30                                                                                |    |
| 2"-1"         | 24001085      | 24005085            | 25                                                                                |    |
| 2"-1 1/4"     | 24001086      | 24005086            | 22                                                                                |    |
| 2"-1 1/2"     | 24001087      | 24005087            | 22                                                                                |    |
| 2 1/2"-1"     | 24001095      | 24005095            | 16                                                                                |    |
| 2 1/2"-1 1/4" | 24001096      | 24005096            | 14                                                                                |    |
| 2 1/2"-1 1/2" | 24001097      | 24005097            | 14                                                                                |    |
| 2 1/2"-2"     | 24001098      | 24005098            | 10                                                                                |    |
| 3"-1 1/4"     | 240010A6      | 240050A6            | 10                                                                                |    |
| 3"-1 1/2"     | 240010A7      | 240050A7            | 10                                                                                |    |
| 3"-2"         | 240010A8      | 240050A8            | 10                                                                                |    |
| 3"-2 1/2"     | 240010A9      | 240050A9            | 8                                                                                 |    |
| 4"-2"         | 240010C8      | 240050C8            | 6                                                                                 |    |
| 4"-2 1/2"     | 240010C9      | 240050C9            | 6                                                                                 |    |
| 4"-3"         | 240010CA      | 240050CA            | 6                                                                                 |    |



# 241

## PORCA DE REDUÇÃO

| Ø             | NEGRO<br>COD. | GALVANIZADO<br>COD. |  |    |
|---------------|---------------|---------------------|-------------------------------------------------------------------------------------|----|
| 1/4"-1/8"     | 24111010      | 24115010            | 400                                                                                 | 10 |
| 3/8"-1/8"     | 24111020      | 24115020            | 400                                                                                 | 10 |
| 3/8"-1/4"     | 24111021      | 24115021            | 400                                                                                 | 10 |
| 1/2"-1/8"     | 24111030      | 24115030            | 400                                                                                 | 10 |
| 1/2"-1/4"     | 24101031      | 24105031            | 350                                                                                 | 10 |
| 1/2"-3/8"     | 24101032      | 24105032            | 350                                                                                 | 10 |
| 3/4"-1/4"     | 24101041      | 24105041            | 200                                                                                 | 10 |
| 3/4"-3/8"     | 24101042      | 24105042            | 200                                                                                 | 10 |
| 3/4"-1/2"     | 24101043      | 24105043            | 200                                                                                 | 10 |
| 1"-1/4"       | 24101051      | 24105051            | 140                                                                                 | 10 |
| 1"-3/8"       | 24101052      | 24105052            | 140                                                                                 | 10 |
| 1"-1/2"       | 24101053      | 24105053            | 140                                                                                 | 10 |
| 1"-3/4"       | 24101054      | 24105054            | 140                                                                                 | 10 |
| 1 1/4"-3/8"   | 24101062      | 24105062            | 80                                                                                  | 10 |
| 1 1/4"-1/2"   | 24101063      | 24105063            | 80                                                                                  | 10 |
| 1 1/4"-3/4"   | 24101064      | 24105064            | 80                                                                                  | 10 |
| 1 1/4"-1"     | 24101065      | 24105065            | 80                                                                                  | 10 |
| 1 1/2"-3/8"   | 24101072      | 24105072            | 80                                                                                  | 10 |
| 1 1/2"-1/2"   | 24101073      | 24105073            | 70                                                                                  | 10 |
| 1 1/2"-3/4"   | 24101074      | 24105074            | 70                                                                                  | 10 |
| 1 1/2"-1"     | 24101075      | 24105075            | 70                                                                                  | 10 |
| 1 1/2"-1 1/4" | 24101076      | 24105076            | 70                                                                                  | 10 |
| 2"-1/2"       | 24101083      | 24105083            | 30                                                                                  |    |
| 2"-3/4"       | 24101084      | 24105084            | 30                                                                                  |    |
| 2"-1"         | 24101085      | 24105085            | 30                                                                                  |    |
| 2"-1 1/4"     | 24101086      | 24105086            | 30                                                                                  |    |
| 2"-1 1/2"     | 24101087      | 24105087            | 30                                                                                  |    |
| 2 1/2"-1"     | 24101095      | 24105095            | 20                                                                                  |    |
| 2 1/2"-1 1/4" | 24101096      | 24105096            | 20                                                                                  |    |
| 2 1/2"-1 1/2" | 24101097      | 24105097            | 20                                                                                  |    |
| 2 1/2"-2"     | 24101098      | 24105098            | 20                                                                                  |    |
| 3"-1"         | 241010A5      | 241050A5            | 10                                                                                  |    |
| 3"-1 1/4"     | 241010A6      | 241050A6            | 10                                                                                  |    |
| 3"-1 1/2"     | 241010A7      | 241050A7            | 10                                                                                  |    |
| 3"-2"         | 241010A8      | 241050A8            | 15                                                                                  |    |
| 3"-2 1/2"     | 241010A9      | 241050A9            | 15                                                                                  |    |
| 4"-2"         | 241010C8      | 241050C8            | 8                                                                                   |    |
| 4"-2 1/2"     | 241010C9      | 241050C9            | 8                                                                                   |    |
| 4"-3"         | 241010CA      | 241050CA            | 8                                                                                   |    |
| 5"-4"         |               | 241050DC            | 11                                                                                  |    |
| 6"-4"         |               | 241050EC            | 6                                                                                   |    |
| 6"-5"         |               | 241050ED            | 6                                                                                   |    |

# ACESSÓRIOS



## 245

CASQ. DUPLO REDUÇÃO

| Ø             | NEGRO<br>COD. | GALVANIZADO<br>COD. |  | unidade |
|---------------|---------------|---------------------|-----------------------------------------------------------------------------------|---------|
| 3/8"-1/8"     | 24511020      | 24515020            | 400                                                                               | 10      |
| 3/8"-1/4"     | 24511021      | 24515021            | 400                                                                               | 10      |
| 1/2"-1/4"     | 24511031      | 24515031            | 250                                                                               | 10      |
| 1/2"-3/8"     | 24501032      | 24505032            | 230                                                                               | 10      |
| 3/4"-3/8"     | 24501042      | 24505042            | 140                                                                               | 10      |
| 3/4"-1/2"     | 24501043      | 24505043            | 150                                                                               | 10      |
| 1"-1/2"       | 24501053      | 24505053            | 100                                                                               | 10      |
| 1"-3/4"       | 24501054      | 24505054            | 100                                                                               | 10      |
| 1 1/4"-1/2"   | 24501063      | 24505063            | 60                                                                                | 10      |
| 1 1/4"-3/4"   | 24501064      | 24505064            | 60                                                                                | 10      |
| 1 1/4"-1"     | 24501065      | 24505065            | 50                                                                                | 10      |
| 1 1/2"-3/4"   | 24501074      | 24505074            | 50                                                                                |         |
| 1 1/2"-1"     | 24501075      | 24505075            | 50                                                                                |         |
| 1 1/2"-1 1/4" | 24501076      | 24505076            | 45                                                                                |         |
| 2"-1"         | 24501085      | 24505085            | 25                                                                                |         |
| 2"-1 1/4"     | 24501086      | 24505086            | 25                                                                                |         |
| 2"-1 1/2"     | 24501087      | 24505087            | 25                                                                                |         |
| 2 1/2"-1 1/2" | 24501097      | 24505097            | 15                                                                                |         |
| 2 1/2"-2"     | 24501098      | 24505098            | 14                                                                                |         |
| 3"-2"         | 245010A8      | 245050A8            | 8                                                                                 |         |
| 3"-2 1/2"     | 245010A9      | 245050A9            | 8                                                                                 |         |
| 4"-3"         | 245010CA      | 245050CA            | 4                                                                                 |         |



## 246

UNIÃO M/F REDUÇÃO

| Ø             | NEGRO<br>COD. | GALVANIZADO<br>COD. |  | unidade |
|---------------|---------------|---------------------|-------------------------------------------------------------------------------------|---------|
| 1/4"-1/8"     | 24611010      | 24615010            | 400                                                                                 | 10      |
| 3/8"-1/4"     | 24611021      | 24605021            | 400                                                                                 | 10      |
| 1/2"-1/4"     | 24601031      | 24605031            | 220                                                                                 | 10      |
| 1/2"-3/8"     | 24601032      | 24605032            | 220                                                                                 | 10      |
| 3/4"-3/8"     | 24601042      | 24605042            | 150                                                                                 | 10      |
| 3/4"-1/2"     | 24601043      | 24605043            | 140                                                                                 | 10      |
| 1"-1/2"       | 24601053      | 24605053            | 80                                                                                  | 10      |
| 1"-3/4"       | 24601054      | 24605054            | 80                                                                                  | 10      |
| 1 1/4"-1/2"   | 24601063      | 24605063            | 60                                                                                  | 10      |
| 1 1/4"-3/4"   | 24601064      | 24605064            | 50                                                                                  | 10      |
| 1 1/4"-1"     | 24601065      | 24605065            | 50                                                                                  | 10      |
| 1 1/2"-3/4"   | 24601074      | 24605074            | 45                                                                                  |         |
| 1 1/2"-1"     | 24601075      | 24605075            | 45                                                                                  |         |
| 1 1/2"-1 1/4" | 24601076      | 24605076            | 40                                                                                  |         |
| 2"-1"         | 24601085      | 24605085            | 30                                                                                  |         |
| 2"-1 1/4"     | 24601086      | 24605086            | 25                                                                                  |         |
| 2"-1 1/2"     | 24601087      | 24605087            | 20                                                                                  |         |
| 2 1/2"-1 1/2" | 24601097      | 24605097            | 12                                                                                  |         |
| 2 1/2"-2"     | 24601098      | 24605098            | 12                                                                                  |         |
| 3"-2"         | 246010A8      | 246050A8            | 12                                                                                  |         |
| 3"-2 1/2"     | 246010A9      | 246050A9            | 12                                                                                  |         |



## 270

UNIÃO SIMPLES

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. |  | unidade |
|--------|---------------|---------------------|-------------------------------------------------------------------------------------|---------|
| 1/8"   | 27011000      | 27015000            | 400                                                                                 | 10      |
| 1/4"   | 27011001      | 27015001            | 400                                                                                 | 10      |
| 3/8"   | 27001002      | 27005002            | 250                                                                                 | 10      |
| 1/2"   | 27001003      | 27005003            | 180                                                                                 | 10      |
| 3/4"   | 27001004      | 27005004            | 110                                                                                 | 10      |
| 1"     | 27001005      | 27005005            | 80                                                                                  | 10      |
| 1 1/4" | 27001006      | 27005006            | 45                                                                                  |         |
| 1 1/2" | 27001007      | 27005007            | 35                                                                                  |         |
| 2"     | 27001008      | 27005008            | 20                                                                                  |         |
| 2 1/2" | 27001009      | 27005009            | 12                                                                                  |         |
| 3"     | 2700100A      | 2700500A            | 9                                                                                   |         |
| 4"     | 2700100C      | 2700500C            | 4                                                                                   |         |
| 5"     |               | 2700500D            | 3                                                                                   |         |
| 6"     |               | 2700500E            | 3                                                                                   |         |



## 271

UNIÃO C/ ROSCA  
DIR./ESQ.

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. |  | unidade |
|--------|---------------|---------------------|---------------------------------------------------------------------------------------|---------|
| 3/8"   | 27101002      | 27105002            | 250                                                                                   | 10      |
| 1/2"   | 27101003      | 27105003            | 180                                                                                   | 10      |
| 3/4"   | 27101004      | 27105004            | 110                                                                                   | 10      |
| 1"     | 27101005      | 27105005            | 80                                                                                    | 10      |
| 1 1/4" | 27101006      | 27105006            | 45                                                                                    |         |
| 1 1/2" | 27101007      | 27105007            | 35                                                                                    |         |
| 2"     | 27101008      | 27105008            | 20                                                                                    |         |



# 280

## CASQUILHO DUPLO

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidade |
|--------|---------------|---------------------|---------|
| 1/8"   | 28011000      | 28015000            | 400 10  |
| 1/4"   | 28011001      | 28015001            | 400 10  |
| 3/8"   | 28001002      | 28005002            | 300 10  |
| 1/2"   | 28001003      | 28005003            | 200 10  |
| 3/4"   | 28001004      | 28005004            | 130 10  |
| 1"     | 28001005      | 28005005            | 80 10   |
| 1 1/4" | 28001006      | 28005006            | 40 10   |
| 1 1/2" | 28001007      | 28005007            | 40      |
| 2"     | 28001008      | 28005008            | 20      |
| 2 1/2" | 28001009      | 28005009            | 10      |
| 3"     | 2800100A      | 2800500A            | 8       |
| 4"     | 2800100C      | 2800500C            | 4       |
| 5"     |               | 2800500D            | 3       |
| 6"     |               | 2800500E            | 3       |



# 281

## CASQUILHO DUPLO C/ROSCA DIR./ESQ.

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidade |
|--------|---------------|---------------------|---------|
| 1/4"   | 28101001      | 28105001            |         |
| 3/8"   | 28101002      | 28105002            | 300 10  |
| 1/2"   | 28101003      | 28105003            | 200 10  |
| 3/4"   | 28101004      | 28105004            | 130 10  |
| 1"     | 28101005      | 28105005            | 80 10   |
| 1 1/4" | 28101006      | 28105006            | 40 10   |
| 1 1/2" | 28101007      | 28105007            | 40      |
| 2"     | 28101008      | 28105008            | 20      |



# 290

## TAMPÃO MACHO (TACO)

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidade |
|--------|---------------|---------------------|---------|
| 1/8"   | 29011000      | 29015000            | 400 10  |
| 1/4"   | 29011001      | 29015001            | 400 10  |
| 3/8"   | 29001002      | 29005002            | 400 10  |
| 1/2"   | 29001003      | 29005003            | 300 10  |
| 3/4"   | 29001004      | 29005004            | 200 10  |
| 1"     | 29001005      | 29005005            | 120 10  |
| 1 1/4" | 29001006      | 29005006            | 80 10   |
| 1 1/2" | 29001007      | 29005007            | 60 10   |
| 2"     | 29001008      | 29005008            | 40      |
| 2 1/2" | 29001009      | 29005009            | 20      |
| 3"     | 2900100A      | 2900500A            | 15      |
| 4"     | 2900100C      | 2900500C            | 8       |



# 291

## TAMPÃO MACHO (TACO) S/CORDÃO

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidade |
|--------|---------------|---------------------|---------|
| 1/8"   | 29111000      | 29115000            | 400 10  |
| 1/4"   | 29111001      | 29115001            | 400 10  |
| 3/8"   | 29101002      | 29105002            | 400 10  |
| 1/2"   | 29101003      | 29105003            | 300 10  |
| 3/4"   | 29101004      | 29105004            | 200 10  |
| 1"     | 29101005      | 29105005            | 120 10  |
| 1 1/4" | 29101006      | 29105006            | 80 10   |
| 1 1/2" | 29101007      | 29105007            | 60 10   |
| 2"     | 29101008      | 29105008            | 40      |
| 2 1/2" | 29101009      | 29105009            | 20      |
| 3"     | 2910100A      | 2910500A            | 15      |
| 4"     | 2910100C      | 2910500C            | 8       |



# 294

## TAMPÃO MACHO (TACO) PARA SELAR

| Ø      | NEGRO<br>COD. | 4,85GALVANIZADO<br>COD. | unidade |
|--------|---------------|-------------------------|---------|
| 1/2"   | 29401003      | 29405003                | 300 10  |
| 3/4"   | 29401004      | 29405004                | 200 10  |
| 1"     | 29401005      | 29405005                | 120 10  |
| 1 1/4" | 29401006      | 29405006                | 80 10   |
| 1 1/2" | 29401007      | 29405007                | 60 10   |
| 2"     | 29401008      | 29405008                | 40      |

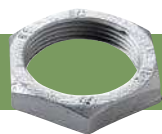


# 300

## TAMPÃO FÊMEA

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. | unidade |
|--------|---------------|---------------------|---------|
| 1/8"   | 3001100       | 30015000            | 400 10  |
| 1/4"   | 30011001      | 30015001            | 400 10  |
| 3/8"   | 30011002      | 30015002            | 400 10  |
| 1/2"   | 30001003      | 30005003            | 280 10  |
| 3/4"   | 30001004      | 30005004            | 180 10  |
| 1"     | 30001005      | 30005005            | 130 10  |
| 1 1/4" | 30001006      | 30005006            | 80 10   |
| 1 1/2" | 30001007      | 30005007            | 60 10   |
| 2"     | 30001008      | 30005008            | 40      |
| 2 1/2" | 30001009      | 30005009            | 25      |
| 3"     | 3000100A      | 3000500A            | 15      |
| 4"     | 3000100C      | 3000500C            | 8       |

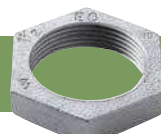
# ACESSÓRIOS



## 310

BATENTE

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-----------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                   |
| 1/4"   | 31011001 |  | 31015001    |  | 400 10                                                                            |
| 3/8"   | 31011002 |  | 31015002    |  | 400 10                                                                            |
| 1/2"   | 31011003 |  | 31015003    |  | 400 10                                                                            |
| 3/4"   | 31011004 |  | 31015004    |  | 300 10                                                                            |
| 1"     | 31011005 |  | 31015005    |  | 200 10                                                                            |
| 1 1/4" | 31001006 |  | 31005006    |  | 80                                                                                |
| 1 1/2" | 31001007 |  | 31005007    |  | 70                                                                                |
| 2"     | 31001008 |  | 31005008    |  | 50                                                                                |
| 2 1/2" | 31001009 |  | 31005009    |  | 25                                                                                |
| 3"     | 3100100A |  | 3100500A    |  | 25                                                                                |



## 312

BATENTE REBAIXADO

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/4"   | 31211001 |  | 31215001    |  | 400 10                                                                              |
| 3/8"   | 31211002 |  | 31215002    |  | 400 10                                                                              |
| 1/2"   | 31201003 |  | 31205003    |  | 400 10                                                                              |
| 3/4"   | 31201004 |  | 31215004    |  | 300 10                                                                              |
| 1"     | 31201005 |  | 31205005    |  | 200 10                                                                              |
| 1 1/4" | 31201006 |  | 31205006    |  | 120 10                                                                              |
| 1 1/2" | 31201007 |  | 31205007    |  | 90 10                                                                               |
| 2"     | 31201008 |  | 31205008    |  | 60 10                                                                               |
| 2 1/2" | 31201009 |  | 31205009    |  | 35                                                                                  |
| 3"     | 3120100A |  | 3120500A    |  | 25                                                                                  |
| 4"     | 3120100C |  | 3120500C    |  | 12                                                                                  |



## 320

FLANGE OVAL

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/2"   | 32001003 |  | 32005003    |  | 140                                                                                 |
| 3/4"   | 32001004 |  | 32005004    |  | 110                                                                                 |
| 1"     | 32001005 |  | 32005005    |  | 70                                                                                  |
| 1 1/4" | 32001006 |  | 32005006    |  | 50                                                                                  |
| 1 1/2" | 32001007 |  | 32005007    |  | 35                                                                                  |
| 2"     | 32001008 |  | 32005008    |  | 30                                                                                  |
| 2 1/2" | 32001009 |  | 32005009    |  | 15                                                                                  |
| 3"     | 3200100A |  | 3200500A    |  | 10                                                                                  |
| 4"     | 3200100C |  | 3200500C    |  | 6                                                                                   |



## 321

FLANGE NORMAL

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|---------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                       |
| 3/8"   | 32101002 |  | 32105002    |  | 110                                                                                   |
| 1/2"   | 32101003 |  | 32105003    |  | 90                                                                                    |
| 3/4"   | 32101004 |  | 32105004    |  | 70                                                                                    |
| 1"     | 32101005 |  | 32105005    |  | 50                                                                                    |
| 1 1/4" | 32101006 |  | 32105006    |  | 30                                                                                    |
| 1 1/2" | 32101007 |  | 32105007    |  | 20                                                                                    |
| 2"     | 32101008 |  | 32105008    |  | 15                                                                                    |
| 2 1/2" | 32101009 |  | 32105009    |  | 12                                                                                    |
| 3"     | 3210100A |  | 3210500A    |  | 9                                                                                     |
| 4"     | 3210100C |  | 3210500C    |  | 5                                                                                     |



## 330

JUNÇÃO S/D

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/2"   | 33001003 |  | 33005003    |  | 80 10                                                                               |
| 3/4"   | 33001004 |  | 33005004    |  | 50 10                                                                               |
| 1"     | 33001005 |  | 33005005    |  | 30 10                                                                               |
| 1 1/4" | 33001006 |  | 33005006    |  | 20                                                                                  |
| 1 1/2" | 33001007 |  | 33005007    |  | 18                                                                                  |
| 2"     | 33001008 |  | 33005008    |  | 10                                                                                  |
| 2 1/2" | 33001009 |  | 33005009    |  | 7                                                                                   |
| 3"     | 3300100A |  | 3300500A    |  | 4                                                                                   |
| 4"     | 3300100C |  | 3300500C    |  | 2                                                                                   |



## 331

JUNÇÃO S/D M/F

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|---------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                       |
| 3/8"   | 33101002 |  | 33105002    |  | 100 10                                                                                |
| 1/2"   | 33101003 |  | 33105003    |  | 60 10                                                                                 |
| 3/4"   | 33101004 |  | 33105004    |  | 40 10                                                                                 |
| 1"     | 33101005 |  | 33105005    |  | 35                                                                                    |
| 1 1/4" | 33101006 |  | 33105006    |  | 18                                                                                    |
| 1 1/2" | 33101007 |  | 33105007    |  | 15                                                                                    |
| 2"     | 33101008 |  | 33105008    |  | 10                                                                                    |
| 2 1/2" | 33101009 |  | 33105009    |  | 4                                                                                     |
| 3"     | 3310100A |  | 3310500A    |  | 2                                                                                     |



# 340

JUNÇÃO S/C

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-----------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                   |
| 1/8"   | 34001000 |  | 34005000    |  | 160 10                                                                            |
| 1/4"   | 34001001 |  | 34005001    |  | 140 10                                                                            |
| 3/8"   | 34001002 |  | 34005002    |  | 100 10                                                                            |
| 1/2"   | 34001003 |  | 34005003    |  | 80 10                                                                             |
| 3/4"   | 34001004 |  | 34005004    |  | 50 10                                                                             |
| 1"     | 34001005 |  | 34005005    |  | 30 10                                                                             |
| 1 1/4" | 34001006 |  | 34005006    |  | 20                                                                                |
| 1 1/2" | 34001007 |  | 34005007    |  | 18                                                                                |
| 2"     | 34001008 |  | 34005008    |  | 10                                                                                |
| 2 1/2" | 34001009 |  | 34005009    |  | 7                                                                                 |
| 3"     | 3400100A |  | 3400500A    |  | 4                                                                                 |
| 4"     | 3400100C |  | 3400500C    |  | 2                                                                                 |



# 341

JUNÇÃO S/C M/F

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/4"   | 34101001 |  | 34105001    |  | 120 10                                                                              |
| 3/8"   | 34101002 |  | 34105002    |  | 100 10                                                                              |
| 1/2"   | 34101003 |  | 34105003    |  | 60 10                                                                               |
| 3/4"   | 34101004 |  | 34105004    |  | 40 10                                                                               |
| 1"     | 34101005 |  | 34105005    |  | 35                                                                                  |
| 1 1/4" | 34101006 |  | 34105006    |  | 18                                                                                  |
| 1 1/2" | 34101007 |  | 34105007    |  | 15                                                                                  |
| 2"     | 34101008 |  | 34105008    |  | 10                                                                                  |
| 2 1/2" | 34101009 |  | 34105009    |  | 4                                                                                   |
| 3"     | 3410100A |  | 3410500A    |  | 2                                                                                   |
| 4"     | 3410100C |  | 3410500C    |  | 1                                                                                   |



# 344

JUNÇÃO S/C M/M

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/4"   | 34401001 |  | 34405001    |  | 120 10                                                                              |
| 3/8"   | 34401002 |  | 34405002    |  | 100 10                                                                              |
| 1/2"   | 34401003 |  | 34405003    |  | 50 10                                                                               |
| 3/4"   | 34401004 |  | 34405004    |  | 40 10                                                                               |
| 1"     | 34401005 |  | 34405005    |  | 30                                                                                  |
| 1 1/4" | 34401006 |  | 34405006    |  | 15                                                                                  |
| 1 1/2" | 34401007 |  | 34405007    |  | 10                                                                                  |
| 2"     | 34401008 |  | 34405008    |  | 6                                                                                   |



# 370

PEÇA DE JUNÇÃO

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|---------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                       |
| 1/2"   | 37001003 |  | 37005003    |  | 250                                                                                   |
| 3/4"   | 37001004 |  | 37005004    |  | 200                                                                                   |
| 1"     | 37001005 |  | 37005005    |  | 120                                                                                   |
| 1 1/4" | 37001006 |  | 37005006    |  | 70                                                                                    |
| 1 1/2" | 37001007 |  | 37005007    |  | 50                                                                                    |
| 2"     | 37001008 |  | 37005008    |  | 25                                                                                    |



# 371

PEÇA DE JUNÇÃO

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|-------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                     |
| 1/2"   | 37101003 |  | 37105003    |  | 225                                                                                 |
| 3/4"   | 37101004 |  | 37105004    |  | 125                                                                                 |
| 1"     | 37101005 |  | 37105005    |  | 80                                                                                  |
| 1 1/4" | 37101006 |  | 37105006    |  | 45                                                                                  |
| 1 1/2" | 37101007 |  | 37105007    |  | 35                                                                                  |
| 2"     | 37101008 |  | 37105008    |  | 20                                                                                  |
| 2 1/2" | 37101009 |  | 37105009    |  | 10                                                                                  |
| 3"     | 3710100A |  | 3710500A    |  | 6                                                                                   |



# 372

PEÇA DE JUNÇÃO

| Ø      | NEGRO    |  | GALVANIZADO |  |  |
|--------|----------|--|-------------|--|---------------------------------------------------------------------------------------|
|        | COD.     |  | COD.        |  |                                                                                       |
| 1/2"   | 37201003 |  | 37205003    |  | 325                                                                                   |
| 3/4"   | 37201004 |  | 37205004    |  | 210                                                                                   |
| 1"     | 37201005 |  | 37205005    |  | 150                                                                                   |
| 1 1/4" | 37201006 |  | 37205006    |  | 80                                                                                    |
| 1 1/2" | 37201007 |  | 37205007    |  | 55                                                                                    |
| 2"     | 37201008 |  | 37205008    |  | 30                                                                                    |
| 2 1/2" | 37201009 |  | 37205009    |  | 16                                                                                    |
| 3"     | 3720100A |  | 3720500A    |  | 10                                                                                    |

# ACESSÓRIOS



## 374

BATENTE P/ JUNÇÃO

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. |  |
|--------|---------------|---------------------|-----------------------------------------------------------------------------------|
| 1/2"   | 37401003      | 37405003            | 175                                                                               |
| 3/4"   | 37401004      | 37405004            | 140                                                                               |
| 1"     | 37401005      | 37405005            | 100                                                                               |
| 1 1/4" | 37401006      | 37405006            | 55                                                                                |
| 1 1/2" | 37401007      | 37405007            | 45                                                                                |
| 2"     | 37401008      | 37405008            | 30                                                                                |
| 2 1/2" | 37401009      | 37405009            | 15                                                                                |
| 3"     | 3740100A      | 3740500A            | 12                                                                                |



## 526

UNIÃO M/F  
ALONGAMENTO

| Ø         | NEGRO<br>COD. | GALVANIZADO<br>COD. |  |
|-----------|---------------|---------------------|-------------------------------------------------------------------------------------|
| 30 x 3/8" | 52601302      | 52605302            | 350 10                                                                              |
| 30 x 1/2" | 52601303      | 52605303            | 220 10                                                                              |
| 40 x 3/8" | 52601402      | 52605402            | 250 10                                                                              |
| 40 x 1/2" | 52601403      | 52605403            | 200 10                                                                              |
| 40 x 3/4" | 52601404      | 52605404            | 120 10                                                                              |
| 50 x 1/2" | 52601503      | 52605503            | 120                                                                                 |
| 50 x 3/4" | 52601504      | 52605504            | 100                                                                                 |



## 529

UNIÃO M/F SIMPLES

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. |  |
|--------|---------------|---------------------|-----------------------------------------------------------------------------------|
| 3/8"   | 52901002      | 52905002            | 300 10                                                                            |
| 1/2"   | 52901003      | 52905003            | 200 10                                                                            |
| 3/4"   | 52901004      | 52905004            | 120 10                                                                            |
| 1"     | 52901005      | 52905005            | 60 10                                                                             |
| 1 1/4" | 52901006      | 52905006            | 40                                                                                |
| 1 1/2" | 52901007      | 52905007            | 35                                                                                |
| 2"     | 52901008      | 52905008            | 20                                                                                |



## 531

ROSCA EXTERIOR (UNIÃO)

| Ø      | NEGRO<br>COD. | GALVANIZADO<br>COD. |  |
|--------|---------------|---------------------|-------------------------------------------------------------------------------------|
| 1/4"   | 53111001      | 53115001            | 500 10                                                                              |
| 3/8"   | 53101002      | 53105002            | 400 10                                                                              |
| 1/2"   | 53101003      | 53105003            | 380 10                                                                              |
| 3/4"   | 53101004      | 53105004            | 240 10                                                                              |
| 1"     | 53101005      | 53105005            | 140 10                                                                              |
| 1 1/4" | 53101006      | 53105006            | 80 10                                                                               |
| 1 1/2" | 53101007      | 53105007            | 60 10                                                                               |
| 2"     | 53101008      | 53105008            | 35                                                                                  |
| 2 1/2" | 53101009      | 53105009            | 18                                                                                  |
| 3"     | 5310100A      | 5310500A            | 12                                                                                  |
| 4"     | 5310100C      | 5310500C            | 8                                                                                   |

## JUNTAS DE ESTANQUIDADE PARA UNIÃO PLANA

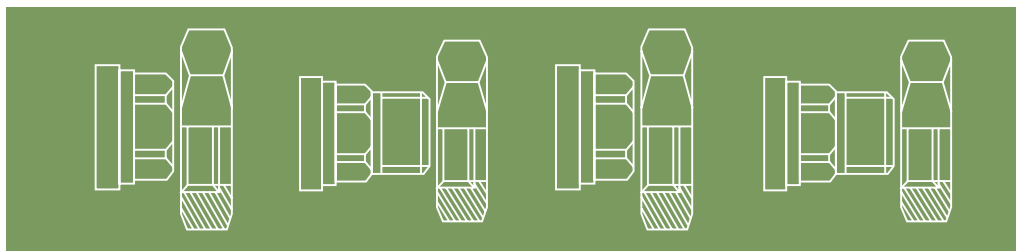


| Polegadas | COD.     | Ø Int. mm. | Ø Ext. mm. | Espessura |
|-----------|----------|------------|------------|-----------|
| 1/2"      | 90000003 | 24         | 31         | 2         |
| 3/4"      | 90000004 | 27         | 38         | 2         |
| 1"        | 90000005 | 32         | 44         | 2         |
| 1 1/4"    | 90000006 | 42         | 55         | 2         |
| 1 1/2"    | 90000007 | 46         | 62         | 2         |
| 2"        | 90000008 | 60         | 78         | 2         |
| 2 1/2"    | 90000009 | 75         | 97         | 3         |
| 3"        | 9000000A | 88         | 110        | 3         |
| 4"        | 9000000C | 113        | 134        | 3         |

\* Material com óptima resistência química. Muito adequado para altas pressões.

\* Aplicações: indústria do gás, química.

\* Certificações: DIN-DVGW, SVGW, DVGW KTW, WQc/WRAS

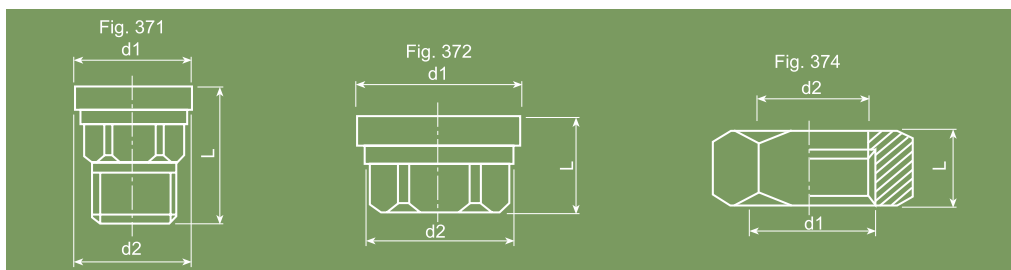


## JOGOS DE LIGAÇÃO PARA BOMBAS

### ■ 1 Jogo compõe-se por:

- 2 Porcas Ref. 374(P1)  
Rosca de sujeição  
DIN/ISO228
- 2 Peças loucas Ref. 372 ou 371  
Roscas de união DIN 2999/ISSO 7/1
- 2 Juntas de fibra sem amianto:
  - Temperatura máx. 300°C.
  - Temperatura máx. com vapor 200°C.
  - Certificados DVGW para gases industriais.
  - Certificados KTW para alimentação e água potável.

■ Os jogos fabricam-se com acabamento em negro sem galvanizar, se não se especifica o contrário.



### 3/4" R JOGO C4201047

| FIG          | mm    |      |      |  | (grs) |
|--------------|-------|------|------|---------------------------------------------------------------------------------------|-------|
|              | d1    | d2.  | L    |                                                                                       |       |
| 372 Ø 3/4"   | 44,2  | 40,9 | 25,9 | 20                                                                                    | 464   |
| 374 G 1 1/2" | 45,15 | 41,8 | 22,0 |                                                                                       |       |

### 1" JOGO C4201057

| FIG          | mm    |      |      |  | (grs) |
|--------------|-------|------|------|---------------------------------------------------------------------------------------|-------|
|              | d1    | d2.  | L    |                                                                                       |       |
| 372 Ø 1"     | 44,2  | 40,9 | 26,6 | 20                                                                                    | 474   |
| 374 G 1 1/2" | 45,15 | 41,8 | 22,0 |                                                                                       |       |

### 1" R JOGO C4201058

| FIG      | mm   |      |      |  | (grs) |
|----------|------|------|------|---------------------------------------------------------------------------------------|-------|
|          | d1   | d2.  | L    |                                                                                       |       |
| 372 Ø 1" | 56,0 | 52,2 | 30,0 | 15                                                                                    | 854   |
| 374 G 2" | 56,9 | 52,9 | 24,0 |                                                                                       |       |

### 1 1/4" M JOGO C4101067

| FIG          | mm    |      |      |  | (grs) |
|--------------|-------|------|------|---------------------------------------------------------------------------------------|-------|
|              | d1    | d2.  | L    |                                                                                       |       |
| 371 Ø 1 1/4" | 44,2  | 40,9 | 48,0 | 15                                                                                    | 624   |
| 374 G 1 1/2" | 45,15 | 41,8 | 22,0 |                                                                                       |       |

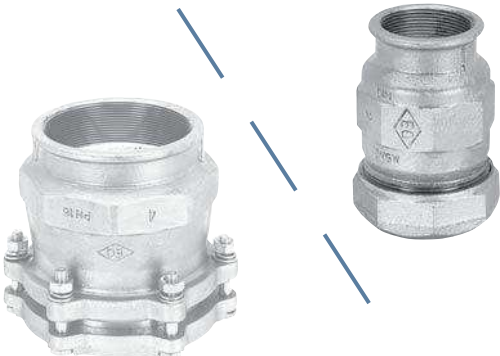
### 1 1/4" JOGO C4201068

| FIG          | mm   |      |      |  | (grs) |
|--------------|------|------|------|---------------------------------------------------------------------------------------|-------|
|              | d1   | d2.  | L    |                                                                                       |       |
| 372 Ø 1 1/4" | 56,0 | 52,2 | 30,0 | 15                                                                                    | 878   |
| 374 G 2"     | 56,9 | 52,9 | 24,0 |                                                                                       |       |



JUNTAS RÁPIDAS



| 740                                                                               | JUNTA FÊMEA | Ø      | COD.     |
|-----------------------------------------------------------------------------------|-------------|--------|----------|
|  |             | 3/8"   | 740A5002 |
|                                                                                   |             | 1/2"   | 740A5003 |
|                                                                                   |             | 3/4"   | 740A5004 |
|                                                                                   |             | 1"     | 740A5005 |
|                                                                                   |             | 1 1/4" | 740A5006 |
|                                                                                   |             | 1 1/2" | 740A5007 |
|                                                                                   |             | 2"     | 740A5008 |
|                                                                                   |             | 2 1/2" | 740A5009 |
|                                                                                   |             | * 3"   | 740A500A |
|                                                                                   |             | * 4"   | 740A500C |

| units. |
|--------|
| 75 5   |
| 60 5   |
| 30 5   |
| 20 4   |
| 16 4   |
| 12 3   |
| 6 2    |
| 6 2    |
| 2      |
| 1      |

| 746                                                                                | JUNTA MACHO | Ø      | COD.     |
|------------------------------------------------------------------------------------|-------------|--------|----------|
|  |             | 3/8"   | 746A5002 |
|                                                                                    |             | 1/2"   | 746A5003 |
|                                                                                    |             | 3/4"   | 746A5004 |
|                                                                                    |             | 1"     | 746A5005 |
|                                                                                    |             | 1 1/4" | 746A5006 |
|                                                                                    |             | 1 1/2" | 746A5007 |
|                                                                                    |             | 2"     | 746A5008 |
|                                                                                    |             | 2 1/2" | 746A5009 |
|                                                                                    |             | * 3"   | 746A500A |
|                                                                                    |             | * 4"   | 746A500C |

| units. |
|--------|
| 75 5   |
| 55 5   |
| 30 5   |
| 20 4   |
| 16 4   |
| 12 3   |
| 6 2    |
| 6 2    |
| 2      |
| 1      |

| 770                                                                                 | JUNTA DUPLA | Ø      | COD.     |
|-------------------------------------------------------------------------------------|-------------|--------|----------|
|  |             | 1/2"   | 770A5003 |
|                                                                                     |             | 3/4"   | 770A5004 |
|                                                                                     |             | 1"     | 770A5005 |
|                                                                                     |             | 1 1/4" | 770A5006 |
|                                                                                     |             | 1 1/2" | 770A5007 |
|                                                                                     |             | 2"     | 770A5008 |
|                                                                                     |             | 2 1/2" | 770A5009 |
|                                                                                     |             | * 3"   | 770A500A |
|                                                                                     |             | * 4"   | 770A500C |

| units. |
|--------|
| 50 5   |
| 25 5   |
| 16 4   |
| 12 3   |
| 9 3    |
| 6 2    |
| 4 1    |
| 2      |
| 1      |

# JUNTAS RÁPIDAS



| 790 | JUNTA JOELHO | Ø        | COD.     |
|-----|--------------|----------|----------|
|     |              | 1/2"     | 790A5003 |
|     |              | 3/4"     | 790A5004 |
|     |              | 1"       | 790A5005 |
|     |              | 1 1/4"   | 790A5006 |
|     |              | 1 1/2"   | 790A5007 |
|     |              | 2"       | 790A5008 |
|     |              | * 2 1/2" | 790A5009 |
|     |              | * 3"     | 790A500A |

| units. |
|--------|
| 40     |
| 20     |
| 15     |
| 10     |
| 6      |
| 4      |
| 2      |
| 2      |

| 730 | JUNTA TÊ | Ø        | COD.     |
|-----|----------|----------|----------|
|     |          | 1/2"     | 730A5003 |
|     |          | 3/4"     | 730A5004 |
|     |          | 1"       | 730A5005 |
|     |          | 1 1/4"   | 730A5006 |
|     |          | 1 1/2"   | 730A5007 |
|     |          | 2"       | 730A5008 |
|     |          | * 2 1/2" | 730A5009 |
|     |          | * 3"     | 730A500A |

| units. |
|--------|
| 30     |
| 20     |
| 15     |
| 10     |
| 6      |
| 4      |
| 2      |
| 2      |

| 730R | JUNTA TÊ DE REDUÇÃO | Ø               | COD.     |
|------|---------------------|-----------------|----------|
|      |                     | 3/4" x 1/2"     | 730A5434 |
|      |                     | 1" x 1/2"       | 730A5535 |
|      |                     | 1" x 3/4"       | 730A5545 |
|      |                     | 1 1/4" x 1/2"   | 730A5636 |
|      |                     | 1 1/4" x 3/4"   | 730A5646 |
|      |                     | 1 1/4" x 1"     | 730A5656 |
|      |                     | 1 1/2" x 1/2"   | 730A5737 |
|      |                     | 1 1/2" x 3/4"   | 730A5747 |
|      |                     | 1 1/2" x 1"     | 730A5757 |
|      |                     | 1 1/2" x 1 1/4" | 730A5767 |
|      |                     | 2" x 1/2"       | 730A5838 |
|      |                     | 2" x 3/4"       | 730A5848 |
|      |                     | 2" x 1"         | 730A5858 |
|      |                     | 2" x 1 1/4"     | 730A5868 |
|      |                     | 2" x 1 1/2"     | 730A5878 |
|      |                     | * 2 1/2" x 2"   | 730A5989 |
|      |                     | * 3" x 2"       | 730A5A8A |

| units. |
|--------|
| 20     |
| 15     |
| 15     |
| 10     |
| 10     |
| 10     |
| 6      |
| 6      |
| 6      |
| 6      |
| 4      |
| 4      |
| 4      |
| 4      |
| 4      |
| 2      |
| 2      |

| 710                                                                               | TAPAPOROS LARGO | Ø      | COD.     |
|-----------------------------------------------------------------------------------|-----------------|--------|----------|
|  |                 | 1/2"   | 71005003 |
|                                                                                   |                 | 3/4"   | 71005004 |
|                                                                                   |                 | 1"     | 71005005 |
|                                                                                   |                 | 1 1/4" | 71005006 |
|                                                                                   |                 | 1 1/2" | 71005007 |
|                                                                                   |                 | 2"     | 71005008 |
|                                                                                   |                 | 2 1/2" | 71005009 |
|                                                                                   |                 | 3"     | 7100500A |
|                                                                                   |                 | 4"     | 7100500C |

|  |
|-------------------------------------------------------------------------------------|
| 17                                                                                  |
| 13                                                                                  |
| 11                                                                                  |
| 9                                                                                   |
| 7                                                                                   |
| 5                                                                                   |
| 4                                                                                   |
| 2                                                                                   |
| 1                                                                                   |

| 715                                                                                | TAPAPOROS CURTO | Ø      | COD.     |
|------------------------------------------------------------------------------------|-----------------|--------|----------|
|  |                 | 1/2"   | 71505003 |
|                                                                                    |                 | 3/4"   | 71505004 |
|                                                                                    |                 | 1"     | 71505005 |
|                                                                                    |                 | 1 1/4" | 71505006 |
|                                                                                    |                 | 1 1/2" | 71505007 |
|                                                                                    |                 | 2"     | 71505008 |

|  |
|-------------------------------------------------------------------------------------|
| 40                                                                                  |
| 30                                                                                  |
| 20                                                                                  |
| 16                                                                                  |
| 11                                                                                  |
| 8                                                                                   |

| 720                                                                                 | TOMADA DE DERIVAÇÃO | Ø             | COD.     |
|-------------------------------------------------------------------------------------|---------------------|---------------|----------|
|  |                     | 1/2" x 1/2"   | 72005033 |
|                                                                                     |                     | 3/4" x 1/2"   | 72005043 |
|                                                                                     |                     | 1" x 1/2"     | 72005053 |
|                                                                                     |                     | 1 1/4" x 3/4" | 72005064 |
|                                                                                     |                     | 1 1/2" x 3/4" | 72005074 |
|                                                                                     |                     | 2" x 1"       | 72005085 |

|  |
|---------------------------------------------------------------------------------------|
| 35                                                                                    |
| 30                                                                                    |
| 23                                                                                    |
| 14                                                                                    |
| 10                                                                                    |
| 8                                                                                     |



# UNIÕES E ACESSÓRIOS RANHURADOS



## RN

### UNIÃO RÍGIDA NORMAL



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                |
| 6RN2G205                       | 6RN2G505    | 25  | 1"         | 33.5             | 32                                                                                             |
| 6RN2G206                       | 6RN2G506    | 32  | 1 1/4"     | 42.4             | 27                                                                                             |
| 6RN2G207                       | 6RN2G507    | 40  | 1 1/2"     | 48.3             | 24                                                                                             |
| 6RN2G208                       | 6RN2G508    | 50  | 2"         | 60.3             | 16                                                                                             |
| 6RN2G20B                       | 6RN2G50B    | 65  | 2 1/2"     | 76.1             | 12                                                                                             |
| 6RN2G20A                       | 6RN2G50A    | 80  | 3"         | 88.9             | 20                                                                                             |
| 6RN2G20C                       | 6RN2G50C    | 100 | 4"         | 114.3            | 10                                                                                             |
| 6RN2G20H                       | 6RN2G50H    | 125 | 5"         | 139.7            | 8                                                                                              |
| 6RN2G20K                       | 6RN2G50K    | 150 | 6 1/2" O.D | 165.1            | 5                                                                                              |
| 6RN2G20E                       | 6RN2G50E    | 150 | 6"         | 168.3            | 5                                                                                              |
| 6RN2G20M                       | 6RN2G50M    | 200 | 8"         | 219.1            | 3                                                                                              |
| 6RN2G20N                       | 6RN2G50N    | 250 | 10"        | 273.0            | 3                                                                                              |
| 6RN2G20Q                       | 6RN2G50Q    | 300 | 12"        | 323.9            | 3                                                                                              |

## RS

### UNIÃO RÍGIDA STANDARD



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                  |
| 6RS2G20B                       | 6RS2G50B    | 65  | 2 1/2"     | 76.1             | 27                                                                                               |
| 6RS2G20A                       | 6RS2G50A    | 80  | 3"         | 88.9             | 20                                                                                               |
| 6RS2G20C                       | 6RS2G50C    | 100 | 4"         | 114.3            | 11                                                                                               |
| 6RS2G20H                       | 6RS2G50H    | 125 | 5"         | 139.7            | 8                                                                                                |
| 6RS2G20K                       | 6RS2G50K    | 150 | 6 1/2 O.D" | 165.1            | 7                                                                                                |
| 6RS2G20E                       | 6RS2G50E    | 150 | 6"         | 168.3            | 7                                                                                                |
| 6RS2G20M                       | 6RS2G50M    | 200 | 8"         | 219.1            | 3                                                                                                |

## FN

### UNIÃO FLEXÍVEL NORMAL



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                  |
| 6FN2G205                       | 6FN2G505    | 25  | 1"         | 33.4             | 32                                                                                               |
| 6FN2G206                       | 6FN2G506    | 32  | 1 1/4"     | 42.4             | 27                                                                                               |
| 6FN2G207                       | 6FN2G507    | 40  | 1 1/2"     | 48.3             | 24                                                                                               |
| 6FN2G208                       | 6FN2G508    | 50  | 2"         | 60.3             | 16                                                                                               |
| 6FN2G20B                       | 6FN2G50B    | 65  | 2 1/2"     | 76.1             | 12                                                                                               |
| 6FN2G20A                       | 6FN2G50A    | 80  | 3"         | 88.9             | 20                                                                                               |
| 6FN2G20C                       | 6FN2G50C    | 100 | 4"         | 114.3            | 10                                                                                               |
| 6FN2G20H                       | 6FN2G50H    | 125 | 5"         | 139.7            | 8                                                                                                |
| 6FN2G20K                       | 6FN2G50K    | 150 | 6 1/2" O.D | 165.1            | 5                                                                                                |
| 6FN2G20E                       | 6FN2G50E    | 150 | 6"         | 168.3            | 5                                                                                                |
| 6FN2G20M                       | 6FN2G50M    | 200 | 8"         | 219.1            | 3                                                                                                |
| 6FN2G20N                       | 6FN2G50N    | 250 | 10"        | 273.0            | 3                                                                                                |
| 6FN2G20Q                       | 6FN2G50Q    | 300 | 12"        | 323.9            | 3                                                                                                |

## FR

### UNIÃO DE REDUÇÃO



| REFERÊNCIA                     |             | DN     | PULGADAS  | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|--------|-----------|------------------|-------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |        |           |                  |             |
| 6FR2G287                       | 6FR2G587    | 50x40  | 2"x1 1/2" | 60.3x48.3        | 16          |
| 6FR2G2B8                       | 6FR2G5B8    | 65x50  | 2 1/2 x2" | 76.1x60.3        | 12          |
| 6FR2G2A8                       | 6FR2G5A8    | 80x50  | 3"x2"     | 88.9x60.3        | 16          |
| 6FR2G2AB                       | 6FR2G5AB    | 80x65  | 3"x2 1/2" | 88.9x76.1        | 16          |
| 6FR2G2C8                       | 6FR2G5C8    | 100x50 | 4"x2"     | 114.3x60.3       | 8           |
| 6FR2G2CB                       | 6FR2G5CB    | 100x65 | 4"x2 1/2" | 114.3x76.1       | 8           |
| 6FR2G2CA                       | 6FR2G5CA    | 100x80 | 4"x3"     | 114.3x88.9       | 8           |

## DS1

### DERIVAÇÃO SIMPLES ROSCADA



| REFERÊNCIA                     |             | DN     | PULGADAS         | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|--------|------------------|------------------|-------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |        |                  |                  |             |
| 6DS2T283                       | 6DS2T583    | 50x15  | 2"x1/2"          | 60.3x21.3        | 18          |
| 6DS2T284                       | 6DS2T584    | 50x20  | 2"x3/4"          | 60.3x26.9        | 18          |
| 6DS2T285                       | 6DS2T585    | 50x25  | 2"x1"            | 60.3x33.4        | 18          |
| 6DS2T286                       | 6DS2T586    | 50x32  | 2"x1 1/4"        | 60.3x42.4        | 12          |
| 6DS2T287                       | 6DS2T587    | 50x40  | 2"x1 1/2"        | 60.3x48.3        | 15          |
| 6DS2T2B3                       | 6DS2T5B3    | 65x15  | 2 1/2x1/2"       | 76.1x21.3        | 10          |
| 6DS2T2B4                       | 6DS2T5B4    | 65x20  | 2 1/2x3/4"       | 76.1x26.9        | 10          |
| 6DS2T2B5                       | 6DS2T5B5    | 65x25  | 2 1/2"x1"        | 76.1x33.4        | 10          |
| 6DS2T2B6                       | 6DS2T5B6    | 65x32  | 2 1/2"x1 1/4"    | 76.1x42.4        | 8           |
| 6DS2T2B7                       | 6DS2T5B7    | 65x40  | 2 1/2"x1 1/2"    | 76.1x48.3        | 8           |
| 6DS2T2A3                       | 6DS2T5A3    | 80x15  | 3"x1/2"          | 88.9x21.3        | 6           |
| 6DS2T2A4                       | 6DS2T5A4    | 80x20  | 3"x3/4"          | 88.9x26.9        | 6           |
| 6DS2T2A5                       | 6DS2T5A5    | 80x25  | 3"x1"            | 88.9x33.4        | 6           |
| 6DS2T2A6                       | 6DS2T5A6    | 80x32  | 3"x1 1/4"        | 88.9x42.4        | 8           |
| 6DS2T2A7                       | 6DS2T5A7    | 80x40  | 3"x1 1/2"        | 88.9x48.3        | 8           |
| 6DS2T2A8                       | 6DS2T5A8    | 80x50  | 3"x2"            | 88.9x60.3        | 5           |
| 6DS2T2C3                       | 6DS2T5C3    | 100x15 | 4"x1/2"          | 114.3x21.3       | 12          |
| 6DS2T2C4                       | 6DS2T5C4    | 100x20 | 4"x3/4"          | 114.3x26.9       | 12          |
| 6DS2T2C5                       | 6DS2T5C5    | 100X25 | 4"x1"            | 114.3x33.4       | 12          |
| 6DS2T2C6                       | 6DS2T5C6    | 100X32 | 4"x1 1/4"        | 114.3x42.4       | 10          |
| 6DS2T2C7                       | 6DS2T5C7    | 100X40 | 4"x1 1/2"        | 114.3x48.3       | 10          |
| 6DS2T2C8                       | 6DS2T5C8    | 100x50 | 4"x2"            | 114.3x60.3       | 10          |
| 6DS2T2CB                       | 6DS2T5CB    | 100x65 | 4"x2 1/2"        | 114.3x76.1       | 8           |
| 6DS2T2CA                       | 6DS2T5CA    | 100x80 | 4"x3"            | 114.3x88.9       | 6           |
| 6DS2T2H8                       | 6DS2T5H8    | 125x60 | 5"x2"            | 139.7x60.3       | 4           |
| 6DS2T2K8                       | 6DS2T5K8    | 150x50 | 6 1/2"O.Dx2"     | 165.1x60.3       | 5           |
| 6DS2T2KB                       | 6DS2T5KB    | 150x65 | 6 1/2"O.Dx2 1/2" | 165.1x76.1       | 5           |
| 6DS2T2E6                       | 6DS2T5E6    | 150x32 | 6"x1 1/4"        | 168.3x42.4       | 5           |
| 6DS2T2E7                       | 6DS2T5E7    | 150x40 | 6"x1 1/2"        | 168.3x48.3       | 5           |
| 6DS2T2E8                       | 6DS2T5E8    | 150x50 | 6"x2"            | 168.3x60.3       | 5           |
| 6DS2T2EA                       | 6DS2T5EA    | 150x80 | 6"x3"            | 168.3x88.9       | 4           |
| 6DS2T2M8                       | 6DS2T5M8    | 200x50 | 8"x2"            | 219.1x60.3       | 3           |

# DS2

## DERIVAÇÃO SIMPLES RANHURADA



| REFERÊNCIA                     |             | DN      | PULGADAS      | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|---------|---------------|------------------|------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |         |               |                  |                                                                                                |
| 6DS2G286                       | 6DS2G586    | 50x32   | 2"x1 1/4"     | 60.3x42.4        | 15                                                                                             |
| 6DS2G287                       | 6DS2G587    | 50x40   | 2"x1 1/2"     | 60.3x48.3        | 15                                                                                             |
| 6DS2G2B6                       | 6DS2G5B6    | 65x32   | 2 1/2"x1 1/4" | 76.1x42.4        | 8                                                                                              |
| 6DS2G2B7                       | 6DS2G5B7    | 65x40   | 2 1/2"x1 1/2" | 76.1x48.3        | 8                                                                                              |
| 6DS2G2A6                       | 6DS2G5A6    | 80x32   | 3"x1 1/4"     | 88.9x42.4        | 8                                                                                              |
| 6DS2G2A7                       | 6DS2G5A7    | 80x40   | 3"x1 1/2"     | 88.9x48.3        | 8                                                                                              |
| 6DS2G2A8                       | 6DS2G5A8    | 80x50   | 3"x2"         | 88.9x60.3        | 5                                                                                              |
| 6DS2G2C7                       | 6DS2G5C7    | 100x40  | 4"x1 1/2"     | 114.3x48.3       | 10                                                                                             |
| 6DS2G2C8                       | 6DS2G5C8    | 100x50  | 4"x2"         | 114.3x60.3       | 10                                                                                             |
| 6DS2G2CB                       | 6DS2G5CB    | 100x65  | 4"x2 1/2"     | 114.3x76.1       | 8                                                                                              |
| 6DS2G2CA                       | 6DS2G5CA    | 100x80  | 4"x3"         | 114.3x88.9       | 8                                                                                              |
| 6DS2G2H6                       | 6DS2G5H6    | 125x32  | 5"x1 1/4"     | 139.7x42.4       | 6                                                                                              |
| 6DS2G2H8                       | 6DS2G5H8    | 125x50  | 5"x2"         | 139.7x60.3       | 4                                                                                              |
| 6DS2G2HB                       | 6DS2G5HB    | 125x65  | 5"x2 1/2"     | 139.7x76.1       | 4                                                                                              |
| 6DS2G2E7                       | 6DS2G5E7    | 150x40  | 6"x1 1/2"     | 168.3x48.3       | 5                                                                                              |
| 6DS2G2E8                       | 6DS2G5E8    | 150x50  | 6"x2"         | 168.3x60.3       | 5                                                                                              |
| 6DS2G2EB                       | 6DS2G5EB    | 150x65  | 6"x2 1/2"     | 168.3x76.1       | 4                                                                                              |
| 6DS2G2EA                       | 6DS2G5EA    | 150x80  | 6"x3"         | 168.3x88.9       | 4                                                                                              |
| 6DS2G2EC                       | 6DS2G5EC    | 150x100 | 6"x4"         | 168.3x114.3      | 4                                                                                              |

# DA1

## DERIVAÇÃO PARA SPRINKLER



| REFERÊNCIA                     |             | DN    | PULGADAS    | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-------|-------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |       |             |                  |                                                                                                  |
| 6DA2T263                       | 6DA2T563    | 32x15 | 1 1/4"x1/2" | 42.4x21.3        | 32                                                                                               |
| 6DA2T264                       | 6DA2T564    | 32x20 | 1 1/4"x3/4" | 42.4x26.9        | 32                                                                                               |
| 6DA2T265                       | 6DA2T565    | 32x25 | 1 1/4"x1"   | 42.4x33.4        | 32                                                                                               |
| 6DA2T273                       | 6DA2T573    | 40x15 | 1 1/2"x1/2" | 48.3x21.3        | 32                                                                                               |
| 6DA2T274                       | 6DA2T574    | 40x20 | 1 1/2"x3/4" | 48.3x26.9        | 32                                                                                               |
| 6DA2T275                       | 6DA2T575    | 40x25 | 1 1/2"x1"   | 48.3x33.4        | 24                                                                                               |
| 6DA2T283                       | 6DA2T583    | 50x15 | 2"x1/2"     | 60.3x21.3        | 30                                                                                               |
| 6DA2T284                       | 6DA2T584    | 50x20 | 2"x3/4"     | 60.3x26.9        | 30                                                                                               |
| 6DA2T285                       | 6DA2T585    | 50x25 | 2"x1"       | 60.3x33.4        | 20                                                                                               |
| 6DA2T2B3                       | 6DA2T5B3    | 65x15 | 2 1/2"x1/2" | 76.1x21.3        | 20                                                                                               |
| 6DA2T2B4                       | 6DA2T5B4    | 65x20 | 2 1/2"x3/4" | 76.1x26.9        | 20                                                                                               |
| 6DA2T2B5                       | 6DA2T5B5    | 65x25 | 2 1/2"x1"   | 76.1x33.4        | 20                                                                                               |

# RANHURADOS



## 90

JOELHO 90°



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                |
| 60900205                       | 60900505    | 25  | 1"         | 33.4             | 40                                                                                             |
| 60900206                       | 60900506    | 32  | 1 1/4"     | 42.4             | 32                                                                                             |
| 60900207                       | 60900507    | 40  | 1 1/2"     | 48.3             | 24                                                                                             |
| 60900208                       | 60900508    | 50  | 2"         | 60.3             | 14                                                                                             |
| 6090020B                       | 6090050B    | 65  | 2 1/2"     | 76.1             | 6                                                                                              |
| 6090020A                       | 6090050A    | 80  | 3"         | 88.9             | 4                                                                                              |
| 6090020C                       | 6090050C    | 100 | 4"         | 114.3            | 4                                                                                              |
| 6090020H                       | 6090050H    | 125 | 5"         | 139.7            | 2                                                                                              |
| 6090020K                       | 6090050K    | 150 | 6 1/2" O.D | 165.1            | 1                                                                                              |
| 6090020E                       | 6090050E    | 150 | 6"         | 168.3            | 1                                                                                              |
| 6090020M                       | 6090050M    | 200 | 8"         | 219.1            | 1                                                                                              |
| 6090020N                       | 6090050N    | 250 | 10"        | 273.0            | 1                                                                                              |
| 6090020Q                       | 6090050Q    | 300 | 12"        | 323.9            | 1                                                                                              |

## 90S

JOELHO 90° STANDARD



| REFERÊNCIA                     |             | DN  | PULGADAS    | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|-------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |             |                  |                                                                                                  |
| 6090S208                       | 6090S508    | 50  | 2"          | 60.3             | 30                                                                                               |
| 6090S20B                       | 6090S50B    | 65  | 2 1/2"      | 76.1             | 14                                                                                               |
| 6090S20A                       | 6090S50A    | 80  | 3"          | 88.9             | 10                                                                                               |
| 6090S20C                       | 6090S50C    | 100 | 4"          | 114.3            | 10                                                                                               |
| 6090S20H                       | 6090S50H    | 125 | 5"          | 139.7            | 6                                                                                                |
| 6090S20K                       | 6090S50K    | 150 | 6 1/2" O.D" | 165.1            | 4                                                                                                |
| 6090S20E                       | 6090S50E    | 150 | 6"          | 168.3            | 4                                                                                                |
| 6090S20M                       | 6090S50M    | 200 | 8"          | 219.1            | 1                                                                                                |

## 120

JOELHO 45°



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                  |
| 61200205                       | 61200505    | 25  | 1"         | 33.4             | 40                                                                                               |
| 61200206                       | 61200506    | 32  | 1 1/4"     | 42.4             | 36                                                                                               |
| 61200207                       | 61200507    | 40  | 1 1/2"     | 48.3             | 36                                                                                               |
| 61200208                       | 61200508    | 50  | 2"         | 60.3             | 18                                                                                               |
| 6120020B                       | 6120050B    | 65  | 2 1/2"     | 76.1             | 10                                                                                               |
| 6120020A                       | 6120050A    | 80  | 3"         | 88.9             | 6                                                                                                |
| 6120020C                       | 6120050C    | 100 | 4"         | 114.3            | 6                                                                                                |
| 6120020H                       | 6120050H    | 125 | 5"         | 139.7            | 3                                                                                                |
| 6120020K                       | 6120050K    | 150 | 6 1/2" O.D | 165.1            | 2                                                                                                |
| 6120020E                       | 6120050E    | 150 | 6"         | 168.3            | 2                                                                                                |
| 6120020M                       | 6120050M    | 200 | 8"         | 219.1            | 1                                                                                                |
| 6120020N                       | 6120050N    | 250 | 10"        | 273.0            | 1                                                                                                |
| 6120020Q                       | 6120050Q    | 300 | 12"        | 323.9            | 1                                                                                                |

# 130

TÊ



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                |
| 61300205                       | 61300505    | 25  | 1"         | 33.4             | 42                                                                                             |
| 61300206                       | 61300506    | 32  | 1 1/4"     | 42.4             | 22                                                                                             |
| 61300207                       | 61300507    | 40  | 1 1/2"     | 48.3             | 18                                                                                             |
| 61300208                       | 61300508    | 50  | 2"         | 60.3             | 8                                                                                              |
| 6130020B                       | 6130050B    | 65  | 2 1/2"     | 76.1             | 7                                                                                              |
| 6130020A                       | 6130050A    | 80  | 3"         | 88.9             | 5                                                                                              |
| 6130020C                       | 6130050C    | 100 | 4"         | 114.3            | 3                                                                                              |
| 6130020H                       | 6130050H    | 125 | 5"         | 139.7            | 1                                                                                              |
| 6130020K                       | 6130050K    | 150 | 6 1/2" O.D | 165.1            | 1                                                                                              |
| 6130020E                       | 6130050E    | 150 | 6"         | 168.3            | 2                                                                                              |
| 6130020M                       | 6130050M    | 200 | 8"         | 219.1            | 1                                                                                              |
| 6130020N                       | 6130050N    | 250 | 10"        | 273.0            | 1                                                                                              |
| 6130020Q                       | 6130050Q    | 300 | 12"        | 323.9            | 1                                                                                              |

# 130S

TÊ STANDARD



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                  |
| 6130S208                       | 6130S508    | 50  | 2"         | 60.3             | 18                                                                                               |
| 6130S20B                       | 6130S50B    | 65  | 2 1/2"     | 76.1             | 10                                                                                               |
| 6130S20A                       | 6130S50A    | 80  | 3"         | 88.9             | 6                                                                                                |
| 6130S20C                       | 6130S50C    | 100 | 4"         | 114.3            | 6                                                                                                |
| 6130S20H                       | 6130S50H    | 125 | 5"         | 139.7            | 4                                                                                                |
| 6130S20K                       | 6130S50K    | 150 | 6 1/2 O.D" | 165.1            | 2                                                                                                |
| 6130S20E                       | 6130S50E    | 150 | 6"         | 168.3            | 2                                                                                                |
| 6130S20M                       | 6130S50M    | 200 | 8"         | 219.1            | 1                                                                                                |

# 130R

TÊ DE REDUÇÃO



| REFERÊNCIA                     |             | DN      | PULGADAS       | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|---------|----------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |         |                |                  |                                                                                                  |
| 61300285                       | 61300585    | 50x25   | 2"x1"          | 60.3x33.4        | 8                                                                                                |
| 61300287                       | 61300587    | 50x40   | 2"x1 1/2"      | 60.3x48.3        | 8                                                                                                |
| 613002B7                       | 613005B7    | 65x40   | 2 1/2"x1 1/2"  | 76.1x48.3        | 7                                                                                                |
| 613002B8                       | 613005B8    | 65x50   | 2 1/2"x2"      | 76.1x60.3        | 7                                                                                                |
| 613002A5                       | 613005A5    | 80x25   | 3"x1"          | 88.9x33.4        | 5                                                                                                |
| 613002A8                       | 613005A8    | 80x50   | 3"x2"          | 88.9x60.3        | 5                                                                                                |
| 613002AB                       | 613005AB    | 80x65   | 3"x2 1/2"      | 88.9x76.1        | 5                                                                                                |
| 613002C7                       | 613005C7    | 100x40  | 4"x1 1/2"      | 114.3x48.3       | 3                                                                                                |
| 613002C8                       | 613005C8    | 100x50  | 4"x2"          | 114.3x60.3       | 3                                                                                                |
| 613002CB                       | 613005CB    | 100x65  | 4"x2 1/2"      | 114.3x76.1       | 3                                                                                                |
| 613002CA                       | 613005CA    | 100x80  | 4"x3"          | 114.3x88.9       | 2                                                                                                |
| 613002HC                       | 613005HC    | 125x100 | 5"x4"          | 139.7x114.3      | 1                                                                                                |
| 613002E8                       | 613005E8    | 150x50  | 6 1/2" O.D x2" | 165.1x60.3       | 1                                                                                                |
| 613002KC                       | 613005KC    | 150x100 | 6 1/2" O.D x4" | 165.1x114.3      | 1                                                                                                |
| 613002E8                       | 613005E8    | 150x50  | 6"x2"          | 168.3x60.3       | 1                                                                                                |
| 613002EA                       | 613005EA    | 150x80  | 6"x3"          | 168.3x88.9       | 1                                                                                                |
| 613002EC                       | 613005EC    | 150x100 | 6"x4"          | 168.3x114.3      | 1                                                                                                |

## 240

### REDUÇÃO CONCÊNTRICA



| REFERÊNCIA                     |             | DN      | PULGADAS       | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|---------|----------------|------------------|------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |         |                |                  |                                                                                                |
| 62400265                       | 62400565    | 32x25   | 1 1/4"x1"      | 42.4x33.4        | 60                                                                                             |
| 62400275                       | 62400575    | 40x25   | 1 1/2"x1"      | 48.3x33.4        | 50                                                                                             |
| 62400276                       | 62400576    | 40x32   | 1 1/2"x1 1/4"  | 48.3x42.4        | 50                                                                                             |
| 62400285                       | 62400585    | 50x25   | 2"x1"          | 60.3x33.4        | 36                                                                                             |
| 62400286                       | 62400586    | 50x32   | 2"x1 1/4"      | 60.3x42.4        | 36                                                                                             |
| 62400287                       | 62400587    | 50x40   | 2"x1 1/2"      | 60.3x48.3        | 36                                                                                             |
| 624002B6                       | 624005B6    | 65x32   | 2 1/2"x1 1/4"  | 76.1x42.4        | 18                                                                                             |
| 624002B7                       | 624005B7    | 65x40   | 2 1/2"x1 1/2"  | 76.1x48.3        | 18                                                                                             |
| 624002B8                       | 624005B8    | 65x50   | 2 1/2"x2"      | 76.1x60.3        | 18                                                                                             |
| 624002A7                       | 624005A7    | 80x40   | 3"x1 1/2"      | 88.9x48.3        | 21                                                                                             |
| 624002A8                       | 624005A8    | 80x50   | 3"x2"          | 88.9x60.3        | 21                                                                                             |
| 624002AB                       | 624005AB    | 80x65   | 3"x 2 1/2"     | 88.9x76.1        | 18                                                                                             |
| 624002C8                       | 624005C8    | 100x50  | 4"x2"          | 114.3x60.3       | 24                                                                                             |
| 624002CB                       | 624005CB    | 100x65  | 4"x 2 1/2"     | 114.3x76.1       | 24                                                                                             |
| 624002CA                       | 624005CA    | 100x80  | 4"x3"          | 114.3x88.9       | 18                                                                                             |
| 624002HC                       | 624005HC    | 125x100 | 5"x4"          | 139.7x114.3      | 4                                                                                              |
| 624002KA                       | 624005KA    | 150x80  | 6 1/2" O.D x3" | 165.1x88.9       | 7                                                                                              |
| 624002KC                       | 624005KC    | 150x100 | 6 1/2" O.D x4" | 165.1x114.3      | 7                                                                                              |
| 624002E8                       | 624005E8    | 150x50  | 6"x2"          | 168.3x60.3       | 7                                                                                              |
| 624002EB                       | 624005EB    | 150x65  | 6"x2 1/2"      | 168.3x76.1       | 7                                                                                              |
| 624002EA                       | 624005EA    | 150x80  | 6"x3"          | 168.3x88.9       | 7                                                                                              |
| 624002EC                       | 624005EC    | 150x100 | 6"x4"          | 168.3x114.3      | 7                                                                                              |
| 624002MC                       | 624005MC    | 200x100 | 8"x4"          | 219.1x114.3      | 4                                                                                              |
| 624002MK                       | 624005MK    | 200x150 | 8"x6 1/2" O.D  | 219.1x165.1      | 3                                                                                              |
| 624002ME                       | 624005ME    | 200x150 | 8"x6"          | 219.1x168.3      | 4                                                                                              |

## 300

### TAMPÃO



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> |
|--------------------------------|-------------|-----|------------|------------------|--------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                  |
| 63000205                       | 63000505    | 25  | 1"         | 33.4             | 165                                                                                              |
| 63000206                       | 63000506    | 32  | 1 1/4"     | 42.4             | 160                                                                                              |
| 63000207                       | 63000507    | 40  | 1 1/2"     | 48.3             | 160                                                                                              |
| 63000208                       | 63000508    | 50  | 2"         | 60.3             | 96                                                                                               |
| 6300020B                       | 6300050B    | 65  | 2 1/2"     | 76.1             | 52                                                                                               |
| 6300020A                       | 6300050A    | 80  | 3"         | 88.9             | 36                                                                                               |
| 6300020C                       | 6300050C    | 100 | 4"         | 114.3            | 20                                                                                               |
| 6300020H                       | 6300050H    | 125 | 5"         | 139.7            | 12                                                                                               |
| 6300020K                       | 6300050K    | 150 | 6 1/2" O.D | 165.1            | 10                                                                                               |
| 6300020E                       | 6300050E    | 150 | 6"         | 168.3            | 10                                                                                               |
| 6300020M                       | 6300050M    | 200 | 8"         | 219.1            | 1                                                                                                |
| 6300020N                       | 6300050N    | 250 | 10"        | 273.0            | 1                                                                                                |
| 6300020Q                       | 6300050Q    | 300 | 12"        | 323.9            | 1                                                                                                |

# 315

## TAMPÃO ROSCADO



| REFERÊNCIA                     |             | DN     | PULGADAS       | Ø EXTERIOR<br>mm | PACKING<br> units |
|--------------------------------|-------------|--------|----------------|------------------|------------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |        |                |                  |                                                                                                      |
| 631502B8                       | 631505B8    | 65x50  | 2 1/2"x2"      | 76.1x60.3        | 52                                                                                                   |
| 631502A8                       | 631505A8    | 80x50  | 3"x2"          | 88.9x60.3        | 36                                                                                                   |
| 631502C8                       | 631505C8    | 100x50 | 4"x2"          | 114.3x60.3       | 20                                                                                                   |
| 631502H8                       | 631505H8    | 125x50 | 5"x2"          | 139.7x60.3       | 12                                                                                                   |
| 631502K8                       | 631505K8    | 150x50 | 6 1/2" O.D x2" | 165.1x60.3       | 10                                                                                                   |

# 321

## FLANGE ADAPTADORA



| REFERÊNCIA                     |             | DN  | PULGADAS   | Ø EXTERIOR<br>mm | PACKING<br> units |
|--------------------------------|-------------|-----|------------|------------------|------------------------------------------------------------------------------------------------------|
| PINTADO VERMELHO<br>(RAL 3000) | GALVANIZADO |     |            |                  |                                                                                                      |
| 63210205                       | 63210505    | 25  | 1"         | 33.4             | 12                                                                                                   |
| 63210206                       | 63210506    | 32  | 1 1/4"     | 42.4             | 10                                                                                                   |
| 63210207                       | 63210507    | 40  | 1 1/2"     | 48.3             | 8                                                                                                    |
| 63210208                       | 63210508    | 50  | 2"         | 60.3             | 4                                                                                                    |
| 6321020B                       | 6321050B    | 65  | 2 1/2"     | 76.1             | 4                                                                                                    |
| 6321020A                       | 6321050A    | 80  | 3"         | 88.9             | 5                                                                                                    |
| 6321020C                       | 6321050C    | 100 | 4"         | 114.3            | 4                                                                                                    |
| 6321020H                       | 6321050H    | 125 | 5"         | 139.7            | 2                                                                                                    |
| 6321020K                       | 6321050K    | 150 | 6 1/2" O.D | 165.1            | 4                                                                                                    |
| 6321020E                       | 6321050E    | 150 | 6"         | 168.3            | 4                                                                                                    |
| 6321020M                       | 6321050M    | 200 | 8"         | 219.1            | 1                                                                                                    |
| 6321020N                       | 6321050N    | 250 | 10"        | 273.0            | 1                                                                                                    |
| 6321020Q                       | 6321050Q    | 300 | 12"        | 323.9            | 1                                                                                                    |

**FM (Factory Mutual Research Corp.)**

**UL (Underwriter's Laboratories, Inc.)**





Armazém central  
grande e funcional



forfite



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e logística eficientes



Sortido e embalagens  
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