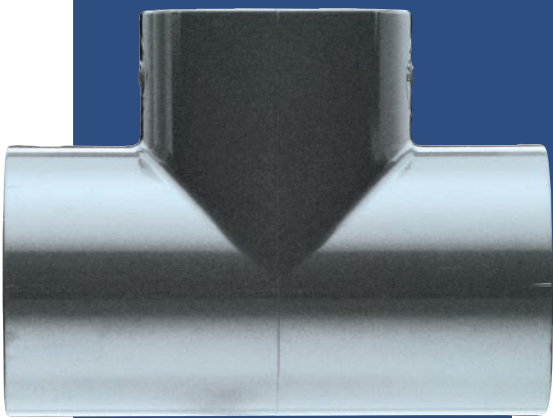




FORMATURA
INIEZIONE
POLIMERI

R-PVC



FIP

Raccordi in PVC
PVC pressure fittings
Raccords en PVC
Fittings aus PVC-U

FIP

 R-PVC

FIP



Фитинги из ПВХ

- Диапазон диаметров от d 12 мм до d 500 мм и от R 3/8" до R 4"
- Виды соединений: клеевое, резьбовое, фланцевое
- Рабочее давление: максимальное рабочее давление 16 бар при температуре 20 °C (для воды)
- ПВХ фитинги, производимые FIP, подходят для транспортировки воды или питательных веществ и соответствуют всем необходимым стандартам и требованиям
- Уплотняющие прокладки изготовлены из EPDM или FPM
- Фитинги ПВХ, производимые FIP, соответствуют следующим сертификатам качества IIP n.122 (Италия), NF n.04 (Франция) и K5034 ND 10 (Голландия)

PVC pressure fittings

- Size range from d 12 mm up to d 500 mm and from R^{3/8}" to R 4"
- Jointing by solvent weld, flanging or threaded connections
- Pressure rating: max working pressure: 16 bar at 20° C (water)
- FIP U-PVC is suitable for conveying foodstuffs and drinking water and meets the necessary standards and regulations
- Sealing gaskets: EPDM or FPM
- Quality marks: IIP n. 122 (Italy), NF n. 04 (France) and K5034 ND 10 (Holland)

R-PVC

Raccords en PVC

- Gamme dimensionnelle de d 12 mm à d 500 mm, de R^{3/8}" à R 4"
- Jonction par collage aussi bien que par filetage
- Pression de service jusqu'à 16 bar à 20° C (eau)
- PVC à qualité alimentaire apte à l'utilisation avec l'eau potable et les aliments suivant les règlements en vigueur
- Joints en EPDM ou FPM
- Marques de qualité: IIP n. 122 (Italie), NF n. 04 (France), K5034 ND 10 (Pays-Bas)

Fittings aus PVC-U

- Abmessungsbereich von d 12 mm bis d 500 mm, von R^{3/8}" bis R 4"
- Verfügbar als Klebe-, Übergang und Gewinde-Fittings
- Betriebsdruck max 16 bar bei 20° C (Wasser)
- Werkstoff entspricht den Empfehlungen des deutschen Bundesgesundheitsamtes und ist physiologisch und toxikologisch unbedenklich
- Dichtungen aus EPDM/FPM
- Gütezeichen: IIP n. 122 (Italien), NF n. 04 (Frankreich), K5034 ND 10 (Holland)

:УСЛОВНЫЕ ОБОЗНАЧЕНИЯ

:LEGENDA

d	номинальный внешний диаметр трубы
DN	номинальный внутренний диаметр
R	номинальный шаг резьбы в дюймах
PN	номинальное давление в бар
g	вес в граммах
U	количество отверстий
K	ключ
b	болты
PVC	поливинилхлорид
EPDM	этиленпропиленовая резина
FPM	винилиден флуорид резина
c	код уплотняющей прокладки

d	nominal outside diameter of the pipe in mm
DN	nominal internal diameter in mm
R	nominal size of the thread in inches
PN	nominal pressure in bar (max. working pressure at 20° C - water)
g	weight in grams
U	number of holes
K	key
b	bolts
PVC	unplasticized polyvinyl chloride
EPDM	ethylene propylene rubber
FPM	vinylidene fluoride rubber
c	O-ring code

d	diamètre extérieur nominal du tube en mm
DN	diamètre nominal intérieur en mm
R	dimension nominale du filetage en pouces
PN	pression nominale en bar (pression de service max à 20° C - eau)
g	pois en grammes
U	nombre de trous
K	clef
b	boulons
PVC	polychlorure de vinyle non plastifié
EPDM	élastomère éthylène-propylène
FPM	fluorélastomère de vinylidene
c	codification joint

d	Rohr Außendurchmesser, mm
DN	Nennweite, mm
R	Gewinde
PN	Nenndruck, bar (max Betriebsdruck bei 20° C Wasser)
g	Gewicht in Gramm
U	Lochzahl
K	Schlüsselweite
b	Schrauben
PVC	Polyvinylchlorid, hart ohne Weichmacher
EPDM	Äthylen-Propylen Kautschuk
FPM	Fluor-Kautschuk
c	Code O-Ring

Marchi di qualità



MARCHIO DI CONFORMITÀ IIP N. 122 Raccordi in PVC rigido (non plastificato) per condotte di fluidi a pressione. Norme UNI-EN 1452. Ente preposto alla concessione: IIP ISTITUTO ITALIANO DEI PLASTICI -Italia.

Quality marks



I raccordi e le valvole FIP in PVC sono riconosciuti dal RINA (Registro Italiano Navale) per l'utilizzo su unità da diporto, a bordo di navi ed altre unità classificate dal RINA (dich. n. MAC/012/95).

Marques de qualité



MARQUE DE QUALITÉ NF N. 04 Raccords en PVC non plastifié: série pression à coller. Normes NF T54-028. Association de normalisation: AFNOR - ASSOCIATION FRANCAISE DE NORMALISATION - France.

Gütezeichen



KIWA QUALITY MARK N. K5034 ND 10. Unplasticized PVC fittings: pressure range for solvent welding. Rules KIWA 54. Certifying official body: KIWA - KEURINGEN INSTITUT VOOR WATERLEIDING ARTIKELN - Holland.



Знаки качества

Сертификат качества

Вся продукция FIP, описываемая в этом буклете, производится в соответствии с UNI EN 29002 ISO 9002.

Global quality system certification

All FIP products shown in this leaflet are manufactured in accordance with UNI EN 29002 ISO 9002 standard.

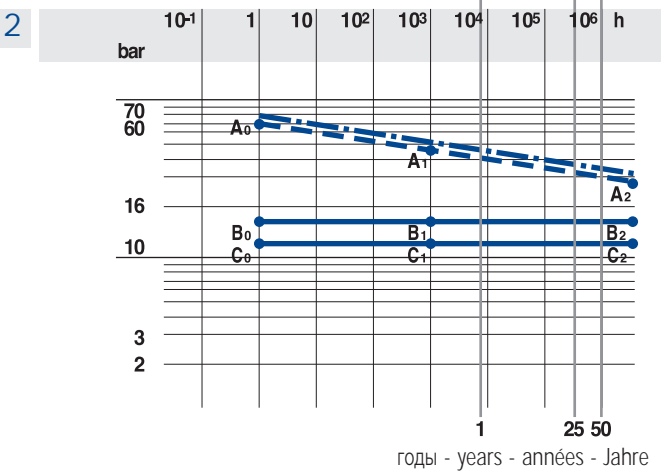
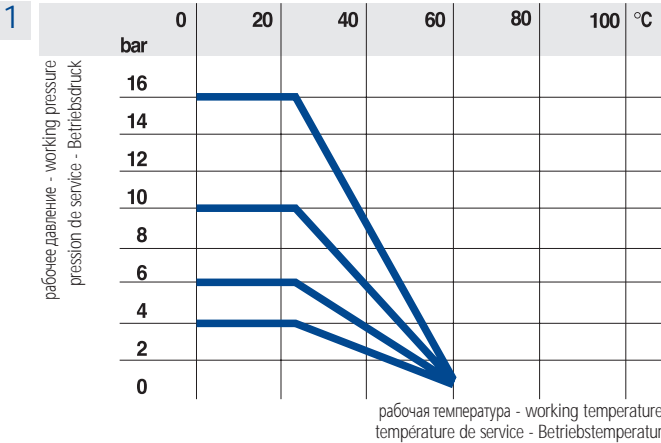
Certification du système de qualité globale

Tous les articles FIP illustrés dans le dépliant sont produits en système de qualité globale selon le standard UNI EN 29002 ISO 9002.

Zertifizierung des Qualitätssicherungssystems

Alle FIP-Produkte in dieser Druckschrift unterliegen einem Qualitätssicherungssystem nach ISO 9002 bzw. UNI/EN 29002.





1 График соотношения температура/давление для воды и сред, нейтральных для ПВХ, см. «Таблицу химической сопротивляемости», при использовании химически агрессивных сред необходимо снизить номинальное давление

Pressure temperature rating for water and harmless fluids to which PVC is RESISTANT. See "A guide to chemical resistance". In other cases a reduction of the rated PN is required.

Variation de la pression en fonction de la température pour l'eau et les fluides non agressifs pour lequel le PVC est considéré CHIMIQUEMENT RESISTANT. Voir brochure "Guide de résistance chimique". Pour les autres cas une diminution du PN est nécessaire.

Druck/Temperatur Diagramm für Wasser und ungefährliche Medien gegen die PVC beständig ist. Siehe Beständigkeitsliste. In allen anderen Fällen ist eine entsprechende Reduzierung der Druckstufe erforderlich.

2 График испытаний на длительное максимальное давление для фитингов и переходников

Long-term burst pressure curve of FIP solvent welding and adaptor fittings

Diagramme a longue durée de pression maximale des raccords FIP à coller et d'adaptation

Druck-Zeit-Diagramm für FIP-Klebe- und Übergangsfittings bei ungefährlichen Medien

--- : ПВХ фитинги PN16

--- : U PVC fittings PN 16

--- : Raccords en PVC FIP PN 16

--- : FIP Fittings PN 16

--- : График максимального давления фитингов ПВХ PN16 в соответствии с DIN 8063 Blatt 5

--- : Long term burst pressure curve of PVC solvent welding and adaptor fittings PN 16 according to DIN 8063 Blatt 5

--- : Pression maximale des raccords FIP à coller et d'adaptation PN 16 selon DIN 8063 Blatt 5

--- : Mindestzeitstandwerte für Klebe- und Übergangsfittings PN 16 (entsprechend DIN 8063, Blatt 5)

— : Рабочее давление при 20 °C

— : Working pressure at 20° C

— : Pression de service à 20° C

— : Betriebsdruck bei 20° C



R-PVC

Технические характеристики

Technical Data

Données Techniques

Technische Daten

3

Pe	T	1h	1000h	50 лет, years années, Jahre
10 bar		6,72	5,12	4,00
16 bar		4,2	3,2	2,5
*16 bar		2,6	2	1,6

*сокращенный фактор безопасности

*with reduced safety factor

*avec facteur de securité réduit

*mit reduziertem Sicherheitsfaktor

3 ФАКТОРЫ БЕЗОПАСНОСТИ Ai/ Bi или Ai/Ci для фитингов PN16 рабочее давление **Pe**/ время воздействия **T**

SAFETY FACTORS Ai/Bi or Ai/Ci at 20° C for PN 16 fittings working pressure **Pe**/loading time **T**

FACTEURS DE SECURITÉ Ai/Bi ou Ai/Ci à 20° C pour raccords PN 16 pression de service **Pe**/période de charge **T**

SICHERHEITSAKTOR Ai/Bi oder Ai/Ci bei 20° C für Fittings PN 16 Betriebsdruck **Pe**/Zeit **T**

НОМИНАЛЬНОЕ ДАВЛЕНИЕ

Номинальное давление PN необходимо рассматривать как условное давление, в соответствии, с которым осуществляется выбор фитинга или фланца для требуемой области применения.

Чтобы соответствовать факторам безопасности, максимально разрешенное рабочее давление, для длительной работы при 20 °C для транспортировки воды, должно быть равно номинальному давлению. Если иначе не указано, то должны быть приняты следующие номинальные давления для фитингов FIP:

- цементная сварка:
 - от d 12 мм до d 225 мм PN16
 - от d 250 мм до d 315 мм PN 10
- переходные фитинги:
 - от d 16 мм до d 110 мм PN 16
- резьбовые фитинги:
 - от R 3/8" до R 4" PN 16

NOMINAL PRESSURE

Nominal pressure PN must be considered as conventional pressure, accordingly with, fittings and flanges should be selected for current application. Maximum allowed working pressure, for continuous use, at 20°C in conveying water must be equal to nominal pressure value in order to ensure correspondance to safety factors. If not otherwise stated nominal pressure of FIP fittings is as follows:

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

PRESSION NOMINALE

La pression nominale PN doit être interprété comme la pression conventionelle selon laquelle les raccords sont projetés et choisis pour l'emploi. La pression maximale pour service continu à 20° C en cas de transport d'eau doit être égale à la valeur de pression afin d'assurer une correspondance aux facteurs de sécurité. A défaut de specification, les pressions nominales des raccords FIP sont les suivantes:

- raccords à coller
 - de d 12 jusqu'à d 225 PN 16
 - de d 250 jusqu'à d 315 PN 10
- raccords d'adaptation
 - de d 16 jusqu'à d 110 PN 16
- raccords filetés
 - de R 3/8" jusqu'à R 4" PN 16

NENNDRUCK

Der Nenndruck (PN) muß als Bezugsgröße verstanden werden, nach der Fittings berechnet und dem Bedarf fall entsprechend ausgewählt werden. Der maximal zulässige Betriebsdruck für Dauerbetrieb bei 20° C, bezogen auf Wasser darf den Nenndruckwert nicht überschreiten, womit sichergestellt ist, daß die in Fig. 2 aufgeführten Sicherheitsfaktoren erhalten bleiben.

Fig. 1 zeigt die zulässigen maximalen Betriebsdrücke unter Berücksichtigung der Temperatur. Sofern nicht ausdrücklich anders vermerkt, haben FIP Fittings folgende Nenndruckstufen:

- Klebefittings
 - von d 12 bis d 225 PN 16
 - von d 250 bis d 315 PN 10
- Übergangsfittings
 - von d 16 bis d 110 PN 16
- Gewindefittings
 - von R 3/8" bis R 4" PN 16

Данные, носят чисто информативный характер, FIP не несет никакой ответственности за технические характеристики, которые напрямую не соответствуют международным стандартам. FIP оставляет за собой право вносить необходимые изменения в продукцию, описываемую в данном буклете.

The data given in this leaflet are offered in good faith. No liability can be accepted concerning technical data that are not directly covered by recognized international standards. FIP reserves the right to carry out any modification to the products shown in this leaflet.

Les données contenues dans cette brochure sont fournies de bonne foi. FIP n'assume aucune responsabilité pour les données qui ne dérivent pas directement des normes internationales. FIP garde le droit d'apporter toute modification aux produits présentés dans cette brochure.

Alle Daten dieser Druckschrift wurden nach bestem Wissen angegeben, jedoch besteht keine Verbindlichkeit, sofern sie nicht direkt internationalen Normen entnommen wurden. Die Änderung von Maßen oder Ausführungen bleibt FIP vorbehalten.

I: IIP 122 F: AFNOR NF04 H: KIWA K5034 ND 10 R: RINA GB: BS LICENCE N° 5802 (UK)



Размеры

FIP производит полную гамму фитингов, муфтовые соединения, которых соответствуют следующим стандартам:

Клеевое соединение: ISO 727, UNI 7442/75, DIN 8063, NF T54-028, KIWA 54

Муфты для труб соответствуют ISO 161/1, UNI 7441/75, DIN 8062, NF T54-016, KIWA49

Резьбовое соединение: UNI ISO 228/1, DIN 2999, BS 21

Dimensions

FIP have produced a complete range of fittings whose couplings comply with the following standards:

Solvent welding: ISO 727, DIN 8063, NF T54-028, KIWA 54, UNI-EN 1452 coupling to

pipes complying with ISO 161/1, UNI-EN 1452, DIN 8062, NF T54-016, KIWA 49.

Threaded couplings: UNI ISO 228/1, DIN 2999, BS 21.

Dimensions

FIP a crée une gamme complète de raccords dont les raccords conformes aux normes suivantes:

Collage: ISO 727, DIN 8063, NF T 54-028, KIWA 54, UNI-EN 1452 assemblés à des tubes selon ISO 161/1, UNI-EN 1452, DIN 8062, NF T 54-016, KIWA 49.

Filetage: UNI ISO 228/1, DIN 2999, BS 21.

Dimensionen

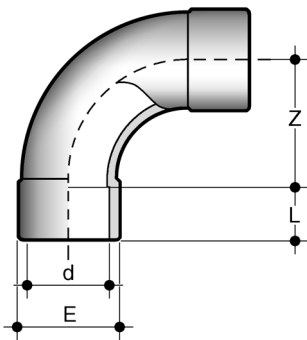
FIP-Fittings aus PVC-hart entsprechen in ihren Anschlüssen folgenden Normen:

Klebefittings: ISO 727, DIN 8063 NF T 54-028, KIWA 54, UNI-EN 1452 und können verbunden werden mit Röhren nach ISO 161/1, UNI-EN 1452, DIN 8062, NF T 54-016, KIWA 49.

Gewindefittings: UNI ISO 228/1, DIN 2999, BS 21.

Фитинги для клеевого соединения

ИЗГИБ 90° БОЛЬШОГО РАДИУСА (R=2D) Муфтовые окончания для клеевого соединения



Solvent Welding series

BEND 90° LONG RADIUS (R=2D) sockets for solvent welding

Serie à coller

SIV

COURBE 90° GRAND RAYON (R=2D) femelles à coller

Klebefittings

BOGEN 90° beidseitig Klebeanschluß 21.000.01

	d	PN	L	Z	E	g
IHR	20	16	16	40,5	27	35
IHR	25	16	19	50,0	33	55
IHR	32	16	22	65,5	41	100
IHR	40	16	26	80,5	50	175
IHR	50	16	31	100,5	61	280
IHR	63	16	38	127,0	76	515
IR	75	16	44	150,0	94	1100
IR	90	16	51	178,0	112	1750
IR	110	16	61	147,0	136	2280
(PN 10) I	**160	16	86	207,0	189	5020

I: IIP 122 H: KIWA K5034 ND 10 R: RINA

**сокращенный фактор безопасности

**reduced safety factor

**facteur de securité réduit

**mit reduziertem Sicherheitsfaktor

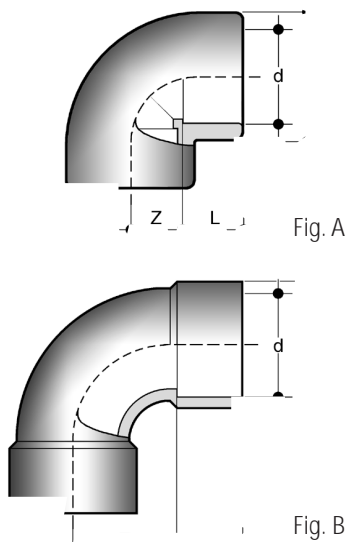
GIV

ОТВОД 90°
Муфтовые окончания
для клеевого соединения

ELBOW 90°
sockets for solvent welding

COUDE 90°
femelles à coller

WINKEL 90°
beidseitig Klebeanschluß
21.010.01
21.001.01 (d 250÷315)



	d	PN	L	Z	E	Fig	g
	12	16	12	8	17	A	4
IFHR	16	16	14	9,0	22	A	11
IFHR	20	16	16	12,0	26	A	15
IFHR	25	16	19	15,0	32	A	30
IFHR	32	16	22	19,0	40	A	50
IFHR	40	16	26	22,0	50	A	90
IFHR	50	16	31	27,5	61	A	160
IFHR	63	16	38	33,5	76	A	290
IFR	75	16	44	41,0	91	A	450
IFR	90	16	51	47,5	108	A	680
IFR	110	16	61	61,0	130	A	1180
IF	125	16	69	64,0	148	A	1650
IF	140	16	76	77,0	163	A	2080
IF	160	16	86	89,0	193	A	3980
**180	16	96	94,0	215	A	5200	
**200	16	106	100,0	229	A	5360	
**225	16	119	171,5	258	B	8700	
250	10	131	188,0	287	B	12480	
280	10	147	210,0	325	B	17000	
315	10	164	236,0	359	B	23370	

I: IIP 122 E: AFNOR NF04 H: KIWA K5034 ND 10 R: RINA

**сокращенный фактор безопасности

**reduced safety factor

**facteur de securité réduit

**mit reduziertem Sicherheits-faktor

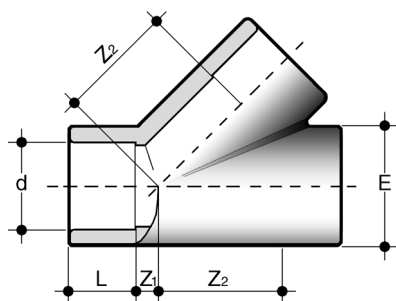
YIV

ТРОЙНИК 45°
Муфтовые окончания
для клеевого соединения

TEE 45°
sockets for solvent welding

TE 45°
femelles à coller

T-STÜCK 45°
allseitig Klebeanschluß
21.025.01



	d	PN	L	Z ₁	Z ₂	E	g
R	20	16	16	7	30	27	39
R	25	16	19	7	35	33	62
R	32	16	22	9	44	41	110
R	40	16	26	11	55	51	190
R	50	16	31	12	68.5	63	335
R	63	16	38	15	85	78	570
*160	4	86	35	200	189	6500	

R: RINA

*покупаемый продукт

*resale product

*produit de revente

*Zukaufsartikel

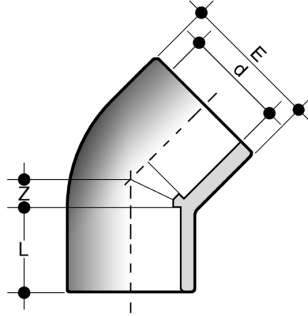
HIV

ОТВОД 45°
Муфтовые окончания
для клеевого соединения

ELBOW 45°
sockets for solvent welding

COUDE 45°
femelles à coller

WINKEL 45°
beidseitig Klebeanschluß
21.015.01



	d	PN	L	Z	E	g
	12	16	12	4,0	17	5
	16	16	14	5,0	21	6
IFHR	20	16	16	5,5	28	20
IFHR	25	16	19	6,0	33	26
IFHR	32	16	22	7,5	41	45
IFHR	40	16	26	10,5	50	70
IFHR	50	16	31	11,5	61	120
IFHR	63	16	38	14,0	76	200
IFR	75	16	44	17,0	90	320
IFR	90	16	51	21,5	107	550
IFR	110	16	61	26,0	130	915
IF	125	16	69	31,0	147	1315
IF	140	16	76	34,0	163	1660
IF	160	16	86	38,0	192	3060
	*180	4	97	38,0	208	3500
	*200	10	108	48,0	230	4500
	*225	10	121	55,0	260	6400
	250	10	131	58,0	286	7700
	280	10	146	62,0	320	10460
	315	10	164	66,0	359	15500

I: IIP 122 F: AFNOR NF04 H: KIWA K5034 ND 10 R: RINA

*покупаемый продукт

*resale product

*produit de revente

*Zukaufartikel

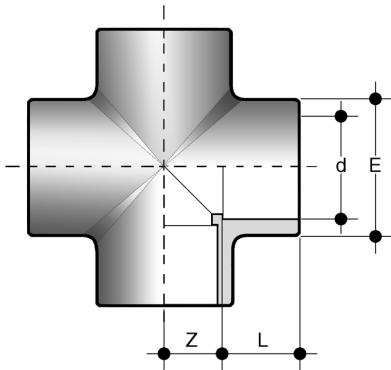
XIV

КРЕСТ 90°
Муфтовые окончания для
клеявого соединения

CROSS 90°
sockets for solvent welding

CROIX 90°
femelles à coller

KREUZ-STÜCK 90°
allseitig Klebeanschluß
21.030.01



	d	PN	L	Z	E	g
H	25	16	19	14,0	35	60
H	32	16	22	18,0	43	105
H	40	16	26	23,0	52	175
H	50	16	31	27,0	64	265
H	63	16	38	33,5	79	505

H: KIWA K5034 ND 10

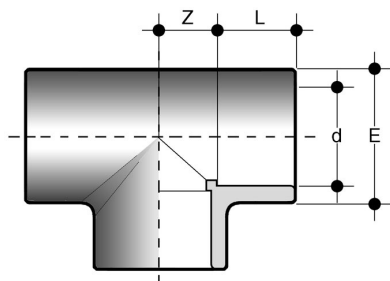
TIV

РАВНОСТОРОННИЙ ТРОЙНИК 90°
Муфтовые окончания
для клеевого соединения

TEE 90° EQUAL
sockets for solvent welding

TÉ 90° EGAUX
femelles à coller

T-STÜCK 90°
allseitig Klebeanschluß
21.020.01



	d	PN	L	Z	E	g
FHR	12	16	12	8	17	6
IFHR	16	16	14	9,0	22	15
IFHR	20	16	16	11,0	27	25
IFHR	25	16	19	14,0	33	40
IFHR	32	16	22	18,0	40	65
IFHR	40	16	26	22,0	50	114
IFHR	50	16	31	27,0	61	185
IFHR	63	16	38	34,0	76	380
IFR	75	16	44	40,5	91	605
IFR	90	16	51	48,5	109	985
IFR	110	16	61	61,0	133	1760
IF	125	16	69	64,0	151	2430
IF	140	16	76	77,0	174	4150
IF	160	16	86	88,0	193	5250
	180	16	96	94,0	215	6180
**200	16	106	101,0	228	6810	
**225	16	119	114,0	258	12680	
	250	10	131	128,0	286	13250
	280	10	146	144,0	319	17840
	315	10	164	162,0	360	25300

I: IIP 122 F: AFNOR NF04 H: KIWA K5034 ND 10 R: RINA

**сокращенный фактор безопасности

**reduced safety factor

**facteur de securité réduit

**mit reduziertem
Sicherheitsfaktor

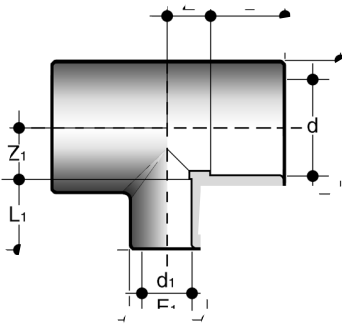
TRIV

ПЕРЕХОДНОЙ ТРОЙНИК 90°
Муфтовые окончания
для клеевого соединения,
с уменьшенным отводом d₁

TEE 90° REDUCING
sockets for solvent welding, with
the offtake socket d₁, reduced

TE 90° RÉDUIT
femelles à coller, avec dérivation
réduit d₁

T-STÜCK 90°
Abgang reduziert
allseitig Klebeanschluß
21.020.01



	d x d ₁	PN	L	L ₁	Z	Z ₁	E	E ₁	g
R	25 x 20	16	19	16	14,0	14,0	33	28	37
R	32 x 20	16	22	16	17,5	17,5	41	28	60
R	32 x 25	16	22	19	17,5	17,5	41	34	65
R	40 x 20	16	26	16	22,0	22,0	50	29	100
R	40 x 25	16	26	19	22,0	22,0	50	34	100
R	40 x 32	16	26	22	22,0	22,0	50	42	105
R	50 x 20	16	31	16	27,0	27,0	61	30	160
R	50 x 25	16	31	19	27,0	27,0	61	35	160
R	50 x 32	16	31	22	27,0	27,0	61	42	165
R	50 x 40	16	31	26	27,0	27,0	61	51	170
R	63 x 25	16	38	19	33,5	33,5	76	36	290
R	63 x 32	16	38	22	33,5	33,5	76	43	295
R	63 x 40	16	38	26	33,5	33,5	76	52	300
R	63 x 50	16	38	31	33,5	33,5	76	62	315
	75 x 32	16	44	22	40,0	40,0	91	41	530
	75 x 40	16	44	26	40,0	40,0	91	50	540
	75 x 50	16	44	31	40,0	40,0	91	61	550
	75 x 63	16	44	38	40,0	40,0	91	76	580
	90 x 40	16	51	26	48,0	48,0	109	50	870
	90 x 50	16	51	31	48,0	48,0	109	61	880
	90 x 63	16	51	38	48,0	48,0	109	76	900
	90 x 75	16	51	44	48,0	48,0	109	91	940
	110 x 50	16	61	31	61,0	61,0	133	61	1580
	110 x 63	16	61	38	61,0	61,0	133	76	1590
	110 x 75	16	61	44	61,0	61,0	133	91	1610
	110 x 90	16	61	51	61,0	61,0	133	109	1640
	180 x 125	16	96	69	94,0	94,0	215	151	6760
	*250 x 110	4	129	63	61,0	128,0	285	134	8300
	*250 x 160	4	129	87	86,0	127,0	285	193	9900
	*250 x 200	4	129	106	133,0	132,0	285	228	12000
	*280 x 160	4	146	88	84,0	153,0	320	193	12500
	*280 x 225	4	146	117,5	117,0	150,5	320	258	14900
	*315 x 160	4	164	86	83,0	126,0	355	193	15000
	*315 x 200	4	164	106	102,0	179,0	355	228	17500
	*315 x 250	4	164	131	127,0	178,0	355	285	19200

R: RINA

*покупаемый продукт

*resale product

*produit de revente

*Zukaufsartikel

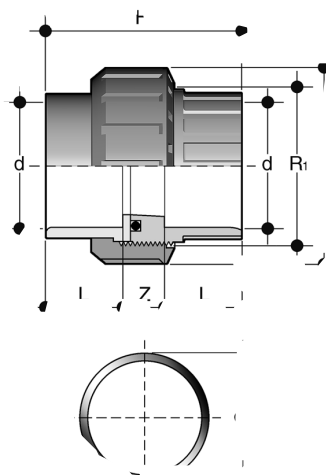
BIV

РАЗБОРНАЯ МУФТА
Муфтовые окончания для
клевого соединения,
прокладка EPDM или FPM

SOCKET UNION
sockets for solvent
welding, with EPDM or FPM
gaskets

UNION 3 PIECES
femelles à coller avec joint
EPDM ou FPM

VERSCHRAUBUNG
bedseitig Klebeanschluß
Dichtung aus EPDM/FPM
21.051.01



	d	R ₁	PN	H	L	Z	E	g	O-Ring		
									C	di	T
	12	1/2	16	38	12	13	29,0	15	-	-	-
IR	16	3/4	16	41	14	13	33,0	20	3062	15,54	2,62
IR	20	1	16	45	16	13	41,0	35	4081	20,22	3,53
IR	25	1 1/4	16	51	19	13	50,0	60	4112	28,17	3,53
IR	32	1 1/2	16	57	22	13	58,0	85	4131	32,93	3,53
IR	40	2	16	67	26	15	72,0	150	6162	40,65	5,34
IR	50	2 1/4	16	79	31	17	79,0	175	6187	47,00	5,34
IR	63	2 3/4	16	98	38	22	98,0	320	6237	59,69	5,34
	75	3 1/2	10	110	44	22	123,0	610	6300	75,57	5,34
	90	4	6	125	51	23	140,0	765	6362	91,45	5,34
	110	5	6	140	61	18	165,0	1195	6450	113,67	7,00

I: IIP 122 R: RINA

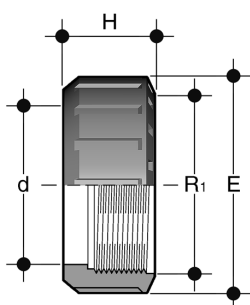
EFV

Гайка
Дюймовая резьба

NUT
with parallel threads

ÉCROU POUR UNION
pas du gaz cylindrique

ÜBERWURFMUTTER
für Verschraubungen BIV, BFV.
Anschluß nur für
Kunststoffgewinde
21.069.00



R ₁	PN	d	H	E	g
3/8	16	13	20	23	5
1/2	16	17	24	27	8
3/4	16	22	21	33	9
1	16	28	22	41	13
1 1/4	16	36	25	50	22
1 1/2	16	42	27	58	30
2	16	53	30	72	50
2 1/4	16	59	34	79	68
2 1/2	16	68	36	90	95
2 3/4	16	74	38	98	120
3 1/2	10	93	42	121	207
4	6	105	46	140	312
5	6	129	52	165	410

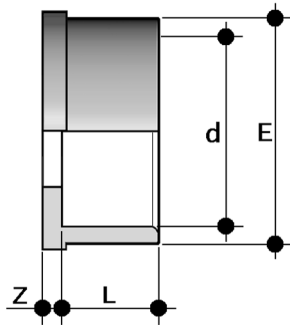
Q/BIV

Муфта для EFV

Union ends for EFV

Pièce à coller pour EFV

Einlegteile für EFV



d	PN	E	L	Z	g
16	16	22	14	3	5
20	16	28	16	3	8
25	16	36	19	3	15
32	16	42	22	3	24
40	16	53	26	3	37
50	16	59	31	3	42
63	16	74	38	3	77
75	10	93	44	3	157
90	6	105	51	5	192
110	6	129	61	5	350

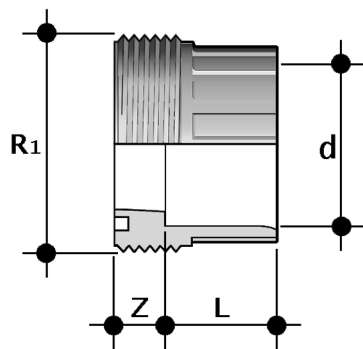
F/BIV

Муфтовая вставка для EFV

Union bush for EFV

Pièce filetée pour EFV

Einschraubteile für EFV



d	PN	L	R ₁	Z	g
16	16	14	3/4	10	9
20	16	16	1"	10	13
25	16	19	1 1/4	10	25
32	16	22	1 1/2	10	31
40	16	26	2	12	58
50	16	31	2 1/4	14	63
63	16	38	2 3/4	19	119
75	10	44	3 1/2	19	260
90	6	51	4	18	300
110	6	61	5	13	460

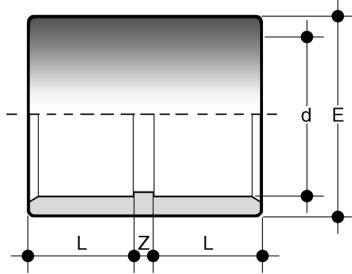
MIV

МУФТА
Муфтовые окончания
для клеевого соединения

DOUBLE SOCKET
sockets for solvent welding

MANCHON
femelles à coller

MUFFE
beidseitig Klebeanschluß
21.091.01



	d	PN	L	Z	E	g
	12	16	12	3	17	3
	16	16	14	3	21	7
IFR	20	16	16	3	26	11
IFR	25	16	19	3	32	20
IFR	32	16	22	3	40	30
IFR	40	16	26	3	50	55
IFR	50	16	31	3	61	90
IFR	63	16	38	3	76	160
IFR	75	16	44	3	90	250
IFR	90	16	51	4	108	415
IFR	110	16	61	8	131	715
IF	125	16	69	7	148	960
IF	140	16	76	8	164	1240
IF	160	16	86	9	186	1680
	*180	4	96	8	209	2500
	**200	16	106	11	232	3050
	**225	16	119	11	260	4600
	250	10	131	10	286	5760
	280	10	146	10	320	7630
	315	10	164	12	355	9780

I: IIP 122 F: AFNOR NF04 R: RINA

*покупаемый продукт
**сокращенный фактор безопасности

*resale product
**reduced safety factor

*produit de revente
**facteur de securité réduit

*Zükaufartikel
**mit reduzierentem Sicherheitsfaktor

MRIV

ПЕРЕХОДНАЯ МУФТА
Муфтовые окончания
для клеевого соединения

DOUBLE SOCKET REDUCING
sockets for solvent welding,
with a reduced end

MANCHON REDUIT
femelles à coller, une emboiture
reduite d₁

MUFFE
reduziert, beidseitig
Klebeanschluß
21.091.01

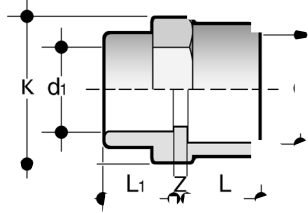


Fig. A

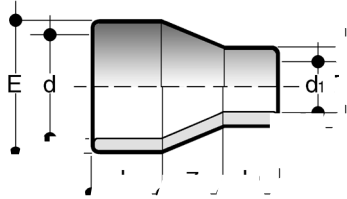


Fig. B

d x d ₁	PN	L	L ₁	Z	E	E ₁	K	Fig	g
**110 x 90	16	61	51	4,5	-	-	130	A	555
*180 x 125	4	95	68	48,8	214	154	-	B	2700
*180 x 140	4	95	76	35,0	214	170	-	B	2700
*180 x 160	4	95	86	17,0	214	190	-	B	2800
*200 x 110	4	102	61	78,0	234	138	-	B	3100
*200 x 125	4	102	68	65,0	234	154	-	B	3100
*200 x 140	4	102	76	52,0	234	170	-	B	3200
*200 x 160	4	102	86	35,0	234	190	-	B	3200
*200 x 180	4	102	95	17,0	234	213	-	B	3300
*225 x 110	4	103	62	100,0	258	138	-	B	4000
*225 x 125	4	103	68	88,0	258	154	-	B	4000
*225 x 140	4	103	76	74,0	258	170	-	B	3800
*225 x 160	4	103	86	57,0	258	190	-	B	4000
*225 x 180	4	103	95	40,0	258	214	-	B	3500
*225 x 200	4	103	102	22,0	258	234	-	B	3500
*250 x 110	4	105	62	122,0	283	138	-	B	4500
*250 x 125	4	105	68	108,0	283	154	-	B	4700
*250 x 140	4	105	76	96,0	283	170	-	B	4600
*250 x 160	4	105	86	78,0	283	190	-	B	4700
*250 x 180	4	105	95	62,0	283	214	-	B	4600
*250 x 200	4	105	102	44,0	283	234	-	B	4500
*250 x 225	4	105	103	22,0	283	258	-	B	4900
*280 x 110	4	101	62	150,0	317	138	-	B	5400
*280 x 125	4	101	68	136,0	317	154	-	B	5400
*280 x 140	4	101	76	123,0	317	170	-	B	5400
*280 x 160	4	101	86	105,0	317	190	-	B	5700
*280 x 180	4	101	95	87,0	317	214	-	B	5700
*280 x 200	4	101	102	70,0	317	234	-	B	5800
*280 x 225	4	101	103	47,0	317	258	-	B	5500
*280 x 250	4	101	105	26,0	317	283	-	B	5400
*315 x 160	4	105	86	135,0	355	190	-	B	6400
*315 x 180	4	105	95	117,0	355	214	-	B	6600
*315 x 200	4	105	102	100,0	355	234	-	B	6800
*315 x 225	4	105	103	79,0	355	258	-	B	7200
*315 x 250	4	105	105	57,0	355	283	-	B	6800
*315 x 280	4	105	101	31,0	355	317	-	B	7100
*355 x 315	4	105	105	35,0	394	355	-	B	7500
*400 x 315	4	105	105	75,0	435	355	-	B	9500
*400 x 355	4	105	105	40,0	435	394	-	B	9000

*покупаемый продукт

**сокращенный фактор безопасности

*resale product

**reduced safety factor

*produit de revente

**facteur de securité réduit

*Zukaufartikel

**mit reduziertem Sicherheitsfaktor

DIV

ПЕРЕХОДНОЕ КОЛЬЦО

Клеевое соединение,
d для внешнего соединения,
d₁ для внутреннего

REDUCING BUSH

spigot for solvent welding (1st d
of reference) socket for solvent
welding (reduced d₁)

REDUCTION SIMPLE

male à coller sur le 1^{re} d de
référence, femelle à coller sur le
d₁ réduit

REDUKTION

kurz, mit Klebestutzen und
Klebemuffe
21.090.03

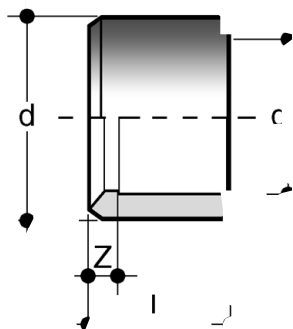


Fig. A

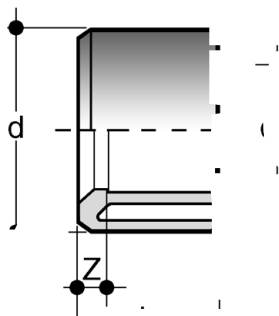


Fig. B

	d x d1	PN	L	Z	Fig	g
R	16 X 12	16	14	2,0	A	1
IFR	20 X 16	16	16	2,0	A	3
IFR	25 X 20	16	19	3,0	A	5
IR	32 X 20	16	22	6,0	A	15
IFR	32 X 25	16	22	3,5	A	10
IR	40 X 20	16	26	9,0	B	25
IR	40 X 25	16	26	7,0	B	24
IFR	40 X 32	16	26	4,0	A	17
IR	50 X 32	16	31	8,5	B	35
IFR	50 X 40	16	31	5,0	A	32
IR	63 X 32	16	38	16,0	B	73
IR	63 X 40	16	38	11,5	B	75
IFR	63 X 50	16	38	7,0	A	65
IR	75 X 50	16	44	13,0	B	120
IFR	75 X 63	16	44	6,0	A	85
IR	90 X 50	16	51	20,0	B	200
IR	90 X 63	16	51	13,0	B	210
IFR	90 X 75	16	51	7,0	A	150
IR	110 X 63	16	61	23,0	B	340
IR	110 X 75	16	61	17,0	B	360
IFR	110 X 90	16	61	9,0	A	270
IFR	125 X 110	16	69	8,0	A	285
IR	140 X 90	16	76	25,0	B	730
IR	140 X 110	16	76	17,0	A	645
IFR	140 X 125	16	76	9,5	A	350
IR	160 X 90	16	86	35,0	B	1040
IR	160 X 110	16	86	24,0	B	945
IFR	160 X 140	16	86	10,0	A	565
	*180 X 160	4	96	10,0	B	710
	*200 X 160	16	109	20,0	B	1620
	*200 X 180	4	106	10,0	B	870
	**225 X 160	16	119	33,0	B	1840
	**225 X 200	16	119	13,0	A	1380
	250 X 160	10	132	45,0	B	3100
	*250 X 180	4	132	36,0	B	3100
	250 X 200	10	132	25,0	A	3500
	250 X 225	10	132	12,0	A	2100
	*280 X 200	4	146	40,0	B	4100
	280 x 225	10	147	27,0	B	4300
	*280 x 250	4	147	15,0	A	2500
	315 x 200	10	165	58,0	B	8650
	315 x 225	10	165	45,0	B	8100
	315 x 250	10	165	33,0	B	5080
	315 x 280	10	165	18,0	A	4590

I: IIP 122 F: AFNOR NF04 R: RINA

*покупаемый продукт

**сокращенный фактор безопасности

*resale product

**reduced safety factor

*produit de revente

**facteur de securité réduit

*Zükaufsartikel

**mit reduziertem Sicherheitsfaktor

RIV

ПЕРЕХОДНАЯ ВТУЛКА
Клеевое соединение, d – справочный размер/втулочное соединение, d₂ муфтовое соединение, d₁ муфтовое соединение меньшего диаметра

REDUCER
spigot for solvent welding (1st d of reference) or socket for solvent welding (d₂) socket for solvent welding (reduced d₁)

REDUCTION DOUBLE
male à coller sur le 1^{er} d de référence, ou femelle à coller (d₂) femelle à coller sur le d₁ réduit

REDUKTION
lang, mit Klebestützen und Klebemuffe
21.091.03

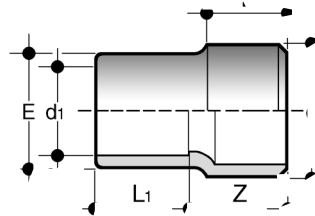


Fig. A

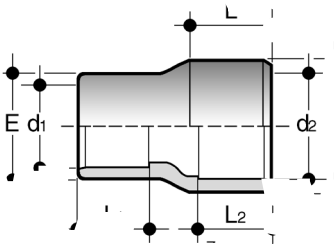


Fig. B

	d x d ₂ x d ₁	PN	L	Z	L ₁	L ₂	E	Fig	g
IR	16 x - x 12	16	14	18,0	12	-	19	A	7
IFR	20 x - x 16	16	16	21,0	14	-	22	A	8
IFR	25 x 20 x 16	16	19	24,5	14	16	22	B	9
IFR	25 x 20 x 20	16	19	24,5	16	16	26	B	12
IFR	32 x 25 x 16	16	22	30,0	14	19	22	B	14
IFR	32 x 25 x 20	16	22	30,0	16	19	27	B	16
IFR	32 x 25 x 25	16	22	30,0	19	19	32	B	20
IFR	40 x 32 x 20	16	26	36,0	16	22	27	B	23
IFR	40 x 32 x 25	16	26	36,0	19	22	32	B	27
IFR	40 x 32 x 32	16	26	36,0	22	22	41	B	34
IR	50 x 40 x 20	16	31	44,0	16	26	27	B	36
IFR	50 x 40 x 25	16	31	44,0	19	26	32	B	40
IFR	50 x 40 x 32	16	31	44,0	22	26	40	B	48
IFR	50 x 40 x 40	16	31	44,0	26	26	48	B	55
IR	63 x 50 x 25	16	38	54,0	19	31	32	B	75
IFR	63 x 50 x 32	16	38	54,0	22	31	40	B	80
IFR	63 x 50 x 40	16	38	54,0	26	31	49	B	90
IFR	63 x 50 x 50	16	38	54,0	31	31	60	B	110
IFR	75 x 63 x 50	16	44	62,0	31	38	61	B	130
IFR	75 x 63 x 63	16	44	62,0	38	38	76	B	175
IR	90 x 75 x 40	16	51	74,0	26	44	50	B	160
IFR	90 x 75 x 50	16	51	74,0	31	44	61	B	185
IFR	90 x 75 x 63	16	51	74,0	38	44	76	B	225
IFR	90 x 75 x 75	16	51	74,0	44	44	88	B	255
IR	110 x 90 x 50	16	61	88,0	31	51	61	B	260
IR	110 x 90 x 63	16	61	88,0	38	51	76	B	300
IR	110 x 90 x 75	16	61	88,0	44	51	89	B	345
IFR	110 x 90 x 90	16	61	88,0	51	51	104	B	400
F	160 x 110	16	86	125,0	61	-	137	A	1270
	200 x 160	10	106	156,0	86	-	182	A	2540

I: IIP 122 F: AFNOR NF04 R: RINA

RIV: i marchi di qualità si riferiscono alle quote d e d₁

RIV: the quality marks refer to dimensions d and d₁

RIV: les marques de qualité se rapportent aux dimensions d et d₁

RIV: die Gütezeichen beziehen sich auf Abmessungen d und d₁

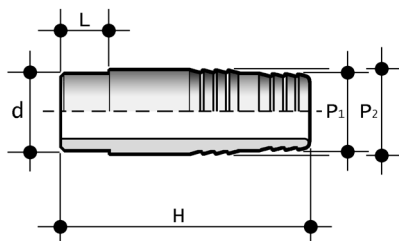
AIV

ШТУЦЕР ДЛЯ ШЛАНГА
Клеевое соединение

HOSE ADAPTOR
spigot for solvent welding

DOUILLE CANNELEE
male à coller

DRUCKSCHLAUCHTÜLLE
mit Klebstützen und zyl. Schlauchtülle 21.096.04



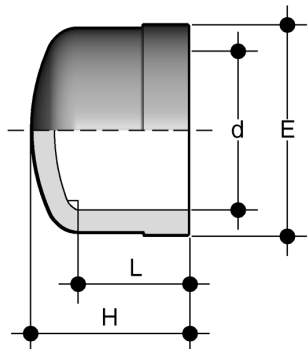
d x P ₂ x P ₁	PN	L	H	g
12 x 14 x 12	16	12	56	6
16 x 18 x 16	16	14	60	12
20 x 22 x 20	16	16	67	17
25 x 27 x 25	16	19	81	26
32 x 32 x 30	16	22	97	40
40 x 42 x 40	16	26	104	78
50 x 52 x 50	16	31	111	113
63 x 64 x 60	16	38	123	170

CIV

 ЗАГЛУШКА
Клеевое соединение

 END CAP
socket for solvent welding

 BOUCHON
femelle à coller

 KAPPE
Klebummuffenanschluß
21.096.01


	d	PN	L	H	E	g
	12	16	12	15	17	3
	16	16	15	17	21	4
IFR	20	16	16	23	28	9
IFR	25	16	19	27	34	15
IFR	32	16	22	31	41	25
IFR	40	16	26	36	51	40
IFR	50	16	31	43	62	60
IFR	63	16	38	51	77	110
IFR	75	16	44	59	91	190
IFR	90	16	51	69	110	330
IFR	110	16	61	85	133	575
	125	16	69	99	147	900
	140	16	76	108	164	1100
	160	16	86	128	192	1900
	225	10	119	163	260	3000

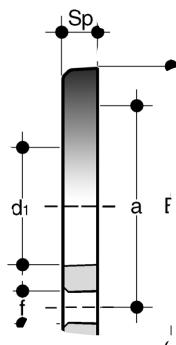
I: IIP 122 F: AFNOR NF04 R: RINA

ODV

 СВОБОДНЫЙ ФЛАНЕЦ PN 10/16
Для буртов QGV, QPV, QRV, QFV
или QLV: отверстия DIN 8063 UNI
2223

 BACKING RING PN 10/16
for stub QGV, QPV, QRV, QFV
or QLV: drilled DIN 8063
UNI 2223

 BRIDE LIBRE PN 10/16
pour collets QGV, QPV, QRV, QFV
ou QLV: perçage DIN 8063, UNI
2223

 FLANSCH 21.070.00
Anschlußmaße DIN 2501, PN 10
für Bundbuchsen-Kombinationen
21.080.01/21.081.01


	DN	d	PN	E	d ₁	a	Sp	f	U	b	g
	15	20	10	96	28	65	11	14	4	M12 x 70	60
IR	20	25	10	107	34	75	12	14	4	M12 x 70	85
IR	25	32	10	117	42	85	14	14	4	M12 x 70	120
IR	32	40	10	143	51	100	15	18	4	M16 x 85	190
IR	40	50	10	153	62	110	16	18	4	M16 x 85	225
IR	50	63	10	168	78	125	18	18	4	M16 x 95	280
IR	65	75	10	188	92	145	19	18	4	M16 x 95	390
IR	80	90	10	203	109	160	20	18	8	M16 x 105	460
IR	100	110	10	222	132	180	22	18	8	M16 x 105	515
IR	110	125	10	230	149	190	24	18	8	M16 x 115	530
I	125	140	10	251	166	210	26	18	8	M16 x 120	715
I	150	160	10	290	189	240	29	22	8	M20 x 135	915
I	200	200	10	340	235	295	30	22	8	M20 x 140	1210
	200	225	10	340	252	295	30	22	8	M20 x 140	1090
	250	250	10	396	278	350	34	22	12	M20 x 150	1790
	250	280	10	396	309	350	35	22	12	M20 x 160	1880
	300	315	10	465	349	400	40	22	12	M20 x 180	3050
	*350	355	4	505	386	460	32	22	16	M20 x 180	3600
	*400	400	4	565	434	515	33	25	16	M22 x 180	4500
	*450	450	4	615	489	565	32	25	20	M22 x 160	4400
	*500	500	4	650	540	600	31	25	20	M20 x 160	4200

I: IIP 122 R: RINA

*покупаемый продукт

*resale product

*produit de revente

*Zukaufsartikel

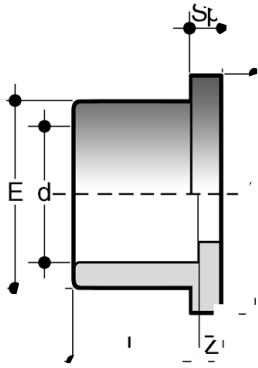
QPV

БУРТ
В соответствии с DIN 8063 PN 10/16, втулочное окончание для цементной сварки, гладкая поверхность для соединения с QGV

FLAT STUB
according to DIN 8063 PN 10/16, sockets for solvent welding, flat faces for companion stubs QGV

COLLET
(conformes au normes DIN 8063 PN 10/16) femelle à coller, face plate pour contre collets QGV

BUNDBUCHSE
Klebeanschluß, Dichfläche flach, 21.080.01 zur Kombination mit 21.081.01



	DN	d	PN	L	Z	Sp	E	F	g
IR	15	20	16	16	3,5	7	27	34	10
IR	20	25	16	19	3,0	7	33	41	16
IR	25	32	16	22	3,0	7	41	50	25
IR	32	40	16	26	3,0	8	50	61	40
IR	40	50	16	31	3,0	8	61	73	62
IR	50	63	16	38	3,0	9	76	90	105
IR	65	75	16	44	3,0	10	90	105	160
IR	80	90	16	51	5,0	10	108	125	275
IR	100	110	16	61	4,0	12	131	150	445
I	110	125	16	69	5,0	13	147	168	750
I	125	125	16	69	11,0	13	165	188	760
I	125	140	16	76	5,0	14	165	188	790
	150	160	16	86	4,5	16	188	212	1140
	200	200	16	106	24,0	30	248	273	2700
**200	200	200	16	106	5,5	18	230	254	1840
*350	355	355	4	184	8,0	29	386	413	5400
*400	400	400	4	206	12,0	26	430	483	6500
*450	450	450	4	-	8,0	19	486	538	5200
*500	500	500	4	-	-	18	532	574	3000

I: IIP 122 R: RINA

*покупаемый продукт
**сокращенный фактор безопасности

*resale product
**reduced safety factor

*produit de revente
**facteur de securité réduit

*Zukaufartikel
**mit reduziertem Sicherheitsfaktor

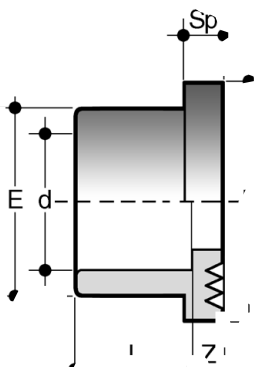
QRV

Бурт
В соответствии с DIN 8063 PN 10/16, втулочное окончание для цементной сварки, зубчатая поверхность для соединения с QPV/QRV и гладкой прокладкой (см. QHV)

STUB
according to DIN 8063 PN 10/16, socket for solvent welding, serrated faces for QPV/QRV and flat gaskets (for gasket dimensions see QHV page 45)

COLLET
(conformes au normes DIN 8063 PN 10/16) femelle à coller, face striée pour contre collets QPV/QRV et joints plats (voir QHV page 45 pour les dimensions des garnitures)

BUNDBUCHSE
gerillt 21.079.01 zur Kombination mit 21.080.01 (Siehe QHV Seite 45 für die Dichtungsabmessungen)



	DN	d	PN	L	Z	Sp	E	F	g
IR	32	40	16	26	3,0	8	50	61	40
IR	40	50	16	31	3,0	8	61	73	62
IR	50	63	16	38	3,0	9	76	90	105
IR	65	75	16	44	3,0	10	90	105	160
IR	80	90	16	51	5,0	10	108	125	275
IR	100	110	16	61	4,0	12	131	150	445
I	110	125	16	69	5,0	13	147	168	750
I	125	140	16	76	5,0	14	165	188	790
I	150	160	16	86	4,5	16	188	212	1140
**200	200	200	16	106	5,5	18	230	254	1840
**200	225	225	16	119	5,5	25	245	273	1750
**250	250	250	16	131	8,5	20	270	306	2140
250	280	280	10	147	14,5	32	307	327	3650
300	315	315	10	165	16,0	32	346	377	4950

I: IIP 122 R: RINA

*покупаемый продукт
**сокращенный фактор безопасности

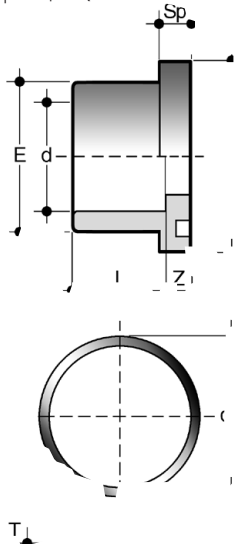
*resale product
**reduced safety factor

*produit de revente
**facteur de securité réduit

*Zukaufartikel
**mit reduziertem Sicherheitsfaktor

QGV

БУРТ С УПЛОТНЯЮЩЕЙ ПРОКЛАДКОЙ. Клеевое соединение, в соответствии с DIN 8063 PN 10/ в бурт с канавкой для уплотняющей прокладки, для использования с фланцевым кольцом ODV-OLV и фланцем QPV



O-RING STUB according with DIN 8063 PN 10/16, sockets for solvent welding, with seat for O-ring gaskets, for backing rings ODV and use with stub QPV

COLLET À JOINT TORIQUE (conformes aux normes DIN 8063 PN 10/16) femelle à coller, siège pour joint torique, pour bride libre ODV et contre collet QPV

BUNDBUCHSE Klebeanschluß, Dichtfläche mit O-Ring-Nut, 21.081.01, nur zur Kombination mit 21.080.01

	DN	d	PN	L	Z	Sp	E	F	g	O-Ring		
										c	di	T
R	15	20	16	16	5,5	9	27	34	11	4093	23,40	3,53
R	20	25	16	19	6,0	10	33	41	18	4112	28,17	3,53
R	25	32	16	22	6,0	10	41	50	28	4143	36,10	3,53
R	32	40	16	26	8,0	13	50	61	50	6175	43,82	5,34
R	40	50	16	31	8,0	13	61	73	71	6212	53,34	5,34
R	50	63	16	38	7,0	14	76	90	120	6275	69,22	5,34
R	65	75	16	44	8,0	15	90	105	185	6325	81,92	5,34
R	80	90	16	51	8,0	16	108	125	305	6400	101,00	5,34
R	100	110	16	61	10,0	18	131	150	460	8475	120,00	5,34
	110	125	16	69	10,5	19	147	168	630	8537	135,90	7,00
	125	140	16	76	10,5	21	165	188	860	8600	151,80	7,00
	150	160	16	86	10,0	22	188	212	1260	8700	177,20	7,00
	**200	200	16	106	11,0	24	230	254	1950	8875	221,60	7,00

R: RINA

**сокращенный фактор безопасности

**reduced safety factor

**facteur de securité réduit

**mit reduziertem Sicherheitsfaktor

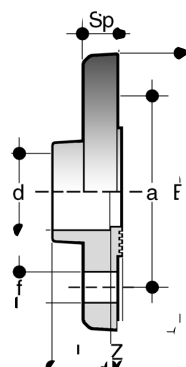
FDV

ЖЕСТКИЙ ФЛАНЕЦ PN 10/16 Отверстия в соответствии с DIN 8063 - UNI 2223, поверхность для использования с гладкой прокладкой (см. QHV)

SOCKET FLANGE PN 10/16 drilled DIN 8063 - UNI 2223 raised/serrated faces for flat gaskets (for gasket dimensions see QHV)

BRIDE FIXE PN 10/16 femelle à coller striée pour joint plat (voir QHV pour les dimensions des garnitures)

FLANSCH mit angespritzter Bundbuchse, Flanschanschlußmaße PN 10/16 für Elastomer-Flachdichtung 21.070.14 (Siehe QHV für die Dichtungsabmessungen)



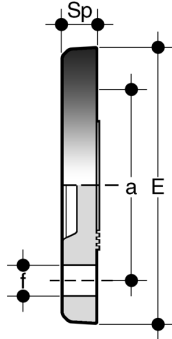
	DN	d	PN	E	a	L	Z	f	Sp	u	g
R	25	32	16	115	85	22	4,5	14	14	4	150
R	32	40	16	140	100	26	4,5	18	15	4	230
R	40	50	16	150	110	31	4,5	18	16	4	280
R	50	63	16	163	125	38	4,5	18	18	4	390
R	65	75	16	185	145	44	5,0	18	19	4	525
R	80	90	16	200	160	51	7,0	18	20	8	710
R	100	110	16	220	180	61	8,0	18	22	8	955

R: RINA

FCV

ГЛУХОЙ ФЛАНЕЦ

Отверстия в соответствии с DIN 8063 – UNI 2223, зубчатая поверхность для использования с гладкой прокладкой (см. QHV)



BLIND FLANGE PN 10/16 drilled DIN 8063 - UNI 2223 raised/serrated faces for flat gaskets (for gasket dimensions see QHV)

BRIDE FAUSSE PN 10/16 striée pour joint plat (voir QHV pour les dimensions des garnitures)

BLINDFLANSCH Flanschanschlußmaße PN 10/16 f. Elastomer-Flanchdichtung 21.070.10 (Siehe QHV für die Dichtungsabmessungen)

DN	d	PN	E	a	Sp	f	U	g
25	32	16	115	85	14	14	4	135
32	40	16	141	100	15	18	4	225
40	50	16	150	110	16	18	4	270
50	63	16	165	125	18	18	4	355
65	75	16	186	145	19	18	4	510
80	90	16	201	160	20	18	8	675
100	110	16	221	180	22	18	8	915
*175	180	4	315	270	30	22	8	3100
*200	200-225	4	340	295	30	22	8	3800

*покупаемый продукт

*resale product

*produit de revente

*Zukaufartikel

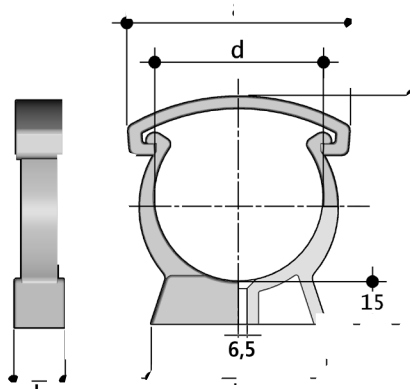
ZIKM

ПП ОПОРНЫЙ ЗАЖИМ

PP SUPPORT CLIP

SUPPORT AUTO-SERRANT en PP pour tubes thermoplastiques

ROHRKLEMMME aus PP



d	a	b	h	l
*16	26	18	33	16
*20	33	14	38	20
*25	41	14	44	25
*32	49	15	51	32
*40	58	16	60	40
*50	68	17	71	60
*63	83	18	84	63
*75	96	19	97	75
*90	113	20	113	90
*110	139	23	134	125
*125	158	25	151	140
*140	177	27	167	155
*160	210	30	190	180
*180	237	33	211	200

*покупаемый продукт

*resale product

*produit de revente

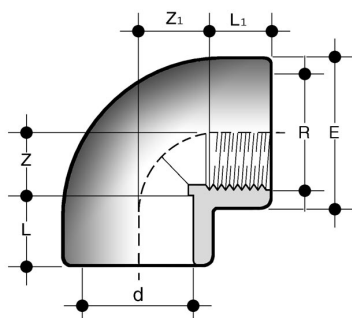
*Zukaufartikel

GIFV

ПЕРЕХОДНОЙ ОТВОД 90°

 FAUCET ELBOW 90°
 one socket plain for solvent
 welding, the other with parallel
 threads

 COUDE 90° DE PASSAGE
 femelle à coller, et pas du gaz
 cylindrique taraudée

 WINKEL 90°
 mit Klebemuffe und Gewinde-
 muffe, Anschluß nur für
 Kunststoffgewinde
 21.010.32


	d x R	PN	L	L ₁	Z	Z ₁	E	g
R	16 x 3/8	16	14	11,4	10,0	13,0	23,5	16
R	20 x 1/2	16	16	15,0	12,0	13,0	28,5	24
R	25 x 3/4	16	19	16,3	14,0	17,0	35,0	40
R	32 x 1	16	22	19,1	18,0	20,5	43,0	72
R	40 x 1 1/4	16	26	21,4	22,5	27,0	54,0	125
R	50 x 1 1/2	16	31	21,4	27,0	37,0	61,0	175
R	63 x 2	16	38	25,7	33,0	46,0	76,0	320
R	75 x 2 1/2	16	44	30,2	40,5	55,0	91,0	465
R	90 x 3	16	51	33,3	48,0	65,5	108,0	795
R	110 x 4	16	61	39,3	60,0	80,0	131,0	1130

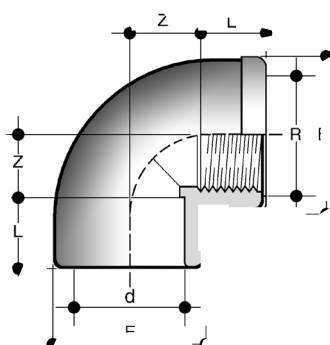
R: RINA

GIMV

 ПЕРЕХОДНОЙ ОТВОД 90°
 Муфтовые окончания – клевое
 соединение и внутренняя резьба
 с усиливающим металлическим
 кольцом

 FAUCET ELBOW 90°
 REINFORCED
 one socket plain for solvent weld-
 ing, the other parallel threaded,
 with reinforcing metal ring

 COUDE 90° DE PASSAGE
 femelle à coller et taraudée pas
 du gaz cylindrique, renforcée au
 piquage

 WINKEL 90°
 metallringverstärkt m.
 Klebemuffe u.
 Gewindemuffe
 21.010.02


	d x R	PN	L	L ₁	Z	Z ₁	E	E ₁	g
R	16 x 3/8	16	14	11,4	10,0	13,0	23,5	24,5	20
R	20 x 1/2	16	16	15,0	12,0	13,0	28,5	29,5	30
R	25 x 3/4	16	19	16,3	14,0	17,0	35,0	36,0	48
R	32 x 1	16	22	19,1	18,0	20,5	43,0	44,0	85
R	40 x 1 1/4	16	26	21,4	22,5	27,0	54,0	55,0	130
R	50 x 1 1/2	16	31	21,4	27,0	37,0	61,0	62,0	185
R	63 x 2	16	38	25,7	33,0	46,0	76,0	77,0	345

R: RINA

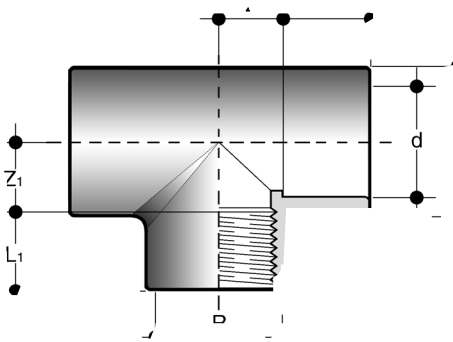
TIFV

ПЕРЕХОДНОЙ ТРОЙНИК 90°
С двумя гладкими муфтовыми окончаниями для клеевого соединения и окончанием с внутренней резьбой

FAUCET TEE 90°
with two plain sockets for solvent welding, and the third one with parallel threads

TE 90° DE PASSAGE
femelles à coller avec dérivation taraudée pas du gaz cylindrique

T-STÜCK 90°
Durchgangsrichtung m. Klebemuffen, Abgang mit Gewindemuffe, Anschluß nur für Kunststoffgewinde 21.020.32



	d x R	PN	L	L ₁	Z	Z ₁	E	g
R	16 x 3/8	16	14	11,4	9,0	11,0	23,5	20
R	20 x 1/2	16	16	15,0	12,0	13,0	28,5	32
R	25 x 3/4	16	19	16,3	15,0	17,0	35,0	52
R	32 x 1/2	16	22	15,0	17,5	18,0	41,0	92
R	32 x 1	16	22	19,1	18,0	21,0	43,0	71
R	40 x 1 1/4	16	26	21,4	21,5	27,0	50,0	110
R	50 x 1/2	16	31	15,0	27,0	27,5	61,0	160
R	50 x 1 1/2	16	31	21,4	27,0	37,0	61,0	195
R	63 x 1/2	16	38	15,0	33,5	37,5	76,0	305
R	63 x 2	16	38	25,7	33,5	46,0	76,0	405
R	75 x 2 1/2	16	44	30,2	41,0	54,5	91,0	605
R	90 x 3	16	51	33,3	48,5	66,0	109,0	1070
R	110 x 4	16	61	39,3	61,5	83,0	133,0	1690

R: RINA

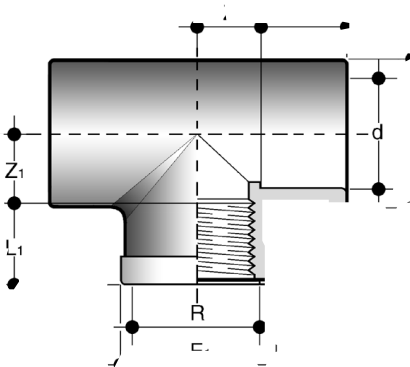
TIMV

ПЕРЕХОДНОЙ ТРОЙНИК 90°, С УСИЛИВАЮЩИМ КОЛЬЦОМ
С двумя гладкими муфтовыми окончаниями для клеевого соединения и окончанием с внутренней резьбой и усиливающим металлическим кольцом

FAUCET TEE 90° REINFORCED
with two sockets for solvent welding, and the third one parallel threaded, with reinforcing metal ring

TE 90° DE PASSAGE
femelles à coller avec dérivation taraudée pas du gaz cylindrique renforcée au piquage

T-STÜCK 90°
metallringverstärkt, Durchgangsrichtung m. Klebemuffen, Abgang m. Gewindemuffe 21.020.02



	d x R	PN	L	L ₁	Z	Z ₁	E	E ₁	g
R	16 x 3/8	16	14	11.4	9.0	11	23.5	24.5	24
R	20 x 1/2	16	16	15.0	12.0	13	28.5	29.0	38
R	25 x 3/4	16	19	16.3	15.0	17	35	36	60
R	32 x 1	16	22	19.1	18.0	21	43	44	105
R	40 x 1 1/4	16	26	21.4	21.5	27	50	51	125
R	50 x 1 1/2	16	31	21.4	27.0	37	61	62	210
R	63 x 2	16	38	25.7	33.5	46	76	77	415

R: RINA

BIFV
РАЗБОРНАЯ МУФТА

Муфтовые окончания – клеевое соединение и внутренняя резьба, прокладка из EPDM или FPM

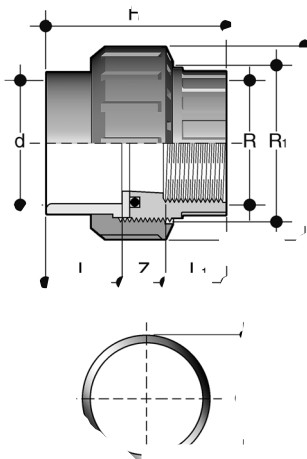
SOCKET UNION

one end plain for solvent welding, the other one parallel threaded, with EPDM or FPM gasket

UNION DE PASSAGE 3 PIÈCES
femelles à coller taraudées pas du gaz cylindrique, avec joint EPDM ou FPM

VERSCHRAUBUNG

Einlegeteil: Klebemuffe
Einschraubteil: Gewindemuffe, Anschluß nur für Kunststoffgewinde 21.051.02


 T₁

d x R	PN	R ₁	L	L ₁	H	Z	E	g	O-Ring		
									C	di	T
16 x 3/8	16	3/4	14	11,4	41,0	15,6	33	22	3062	15,54	2,62
20 x 1/2	16	1	16	15,0	45,0	14,0	41	35	4081	20,22	3,53
25 x 3/4	16	1 1/4	19	16,3	51,0	15,7	50	62	4112	28,17	3,53
32 x 1	16	1 1/2	22	19,1	57,0	15,9	58	85	4131	32,93	3,53
40 x 1 1/4	16	2	26	21,4	67,0	19,6	72	45	6162	40,65	5,34
50 x 1 1/2	16	2 1/4	31	21,4	72,0	19,6	79	180	6187	47,00	5,34
63 x 2	16	2 3/4	38	25,7	88,0	24,0	98	315	6237	59,69	5,34
75 x 2 1/2	10	3 1/2	44	30,2	108,0	34,0	123	643	6300	75,57	5,34
90 x 3	6	4	51	33,3	124,0	40,0	140	859	6362	91,45	5,34
110 x 4	6	5	61	39,3	138,0	38,0	165	1240	6450	113,67	5,34

BIRV
РАЗБОРНАЯ МУФТА

Муфтовое окончание под клеевое соединение и внешняя резьба

SOCKET UNION

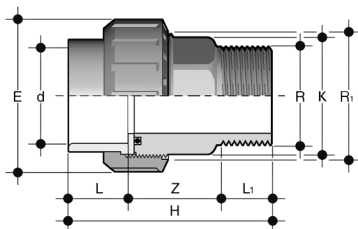
union bush threaded spigot

UNION DE PASSAGE

Mâle fileté
femelle à coller

ÜBERGANGSVERSCHRAUBUNG

Einschraubteil
Rohr-Aussengewinde



d x R	R ₁	PN	H	L	L ₁	Z	K	E	g
50 x 1 1/2	2 1/4	16	98	31	21,4	45,6	53	79	200
50 x 2	2 1/4	16	102	31	25,7	45,3	53	79	220
63 x 2	2 3/4	16	116	38	25,7	52,3	67	98	380

BIRVO
РАЗБОРНОЕ МУФТОВОЕ СОЕДИНЕНИЕ

Латунь/ПВХ, гайка и втулка: латунь, наружная резьба

SOCKET UNION

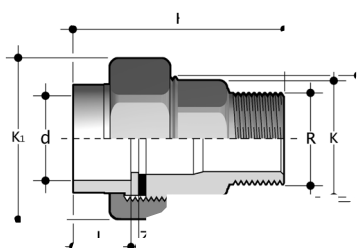
Brass/PVC
nut and union bush: brass, threaded spigot

UNION MIXTE 3 PIÈCES

Laiton/PVC
mâle laiton fileté femelle PVC à coller

ÜBERGANGSVERSCHRAUBUNG

Messing/PVC
Einschraubteil: Messing, Rohr-Aussengewinde



d x R	R ₁	PN	L	H	Z	K	K ₁	g
16 x 3/8	3/4	16	14	50	3	27	30	110
20 x 1/2	1	16	16	59	3	26	37	160
25 x 3/4	1 1/4	16	19	75	3	32	47	300
32 x 1	1 1/2	16	22	81	3	38	54	360
40 x 1 1/4	2	16	26	86	3	47	66	570
50 x 1 1/2	2 1/4	16	31	99	3	53	72	705
63 x 2	2 3/4	16	38	113	3	67	87	1050

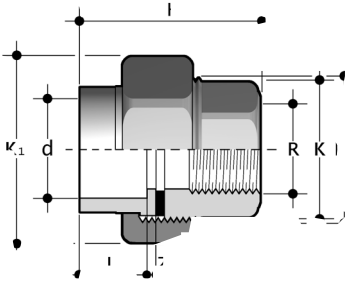
BIFVO

РАЗБОРНОЕ МУФТОВОЕ
СОЕДИНЕНИЕ
Латунь/ПВХ, муфта ПВХ
под клеевое соединение

SOCKET UNION
Brass/PVC nut and union bush:
brass, threaded socket

UNION MIXTE 3 PIÈCES
Laiton/PVC femelle laiton
tarudée femelle PVC à coller

ÜBERGANGSVERSCHRAUBUNG
Messing/PVC Einschraubteil:
Messing, Rohr-Innengewinde



d x R	R ₁	PN	L	H	Z	K	K ₁	g
16 x 3/8	3/4	16	14	39	3	27	30	90
20 x 1/2	1	16	16	46	3	26	37	145
25 x 3/4	1 1/4	16	19	52	3	32	47	240
32 x 1	1 1/2	16	22	57	3	38	54	275
40 x 1 1/4	2	16	26	64	3	47	66	465
50 x 1 1/2	2 1/4	16	31	70	3	53	72	515
63 x 2	2 3/4	16	38	80	3	67	87	805

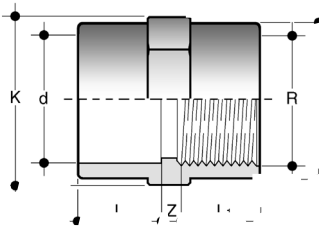
MIFV

ПЕРЕХОДНАЯ МУФТА
ВНУТРЕННЯЯ РЕЗЬБА
Муфтовое окончание (d) под
клеевое соединение, окончание
(R) внутренняя резьба

DOUBLE SOCKET
one socket for solvent welding,
the other one parallel threaded

MANCHON DE PASSAGE
femelle à coller et taraudée pas
du gaz cylindrique

MUFFE
mit Klebemuffe u.
Gewindemuffe, Anschluß nur für
Kunststoffgewinde
21.091.32



d x R	PN	L	L ₁	Z	E	K	g
R 16 x 3/8	16	14	11,4	5,5	23,5	24	12
R 20 x 1/2	16	16	15,0	4,0	28,5	29	20
R 25 x 3/4	16	19	16,3	5,0	35,0	35	30
R 32 x 1	16	22	19,1	6,0	43,0	43	48
R 40 x 1 1/4	16	26	21,4	5,0	50,0	50	56
R 50 x 1 1/2	16	31	21,4	8,0	61,0	61	102
R 63 x 2	16	38	25,7	7,5	76,0	76	181

R: RINA

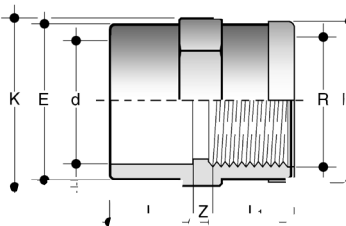
MIMV

ПЕРЕХОДНАЯ МУФТА,
ВНУТРЕННЯЯ РЕЗЬБА
С УСИЛИВАЮЩИМ КОЛЬЦОМ
Муфтовое окончание (d) под
клеевое соединение, окончание
(R) внутренняя резьба
с усиливающим металлическим
кольцом

DOUBLE SOCKET REINFORCED
one socket for solvent welding,
the other one parallel threaded,
with reinforcing metal ring

MANCHON DE PASSAGE
femelle à coller et taraudée pas
du gaz cylindrique, renforcée au
piquage taraudé

MUFFE
metallringverstärkt mit
Klebemuffe u. Gewindemuffe
21.091.02



d x R	PN	L	L ₁	Z	E	E ₁	K	g
R 16 x 3/8	16	14	11,4	5,5	23,5	23,5	24	14
R 20 x 1/2	16	16	15,0	4,0	28,5	28,5	29	23
R 25 x 3/4	16	19	16,3	5,0	35,0	35,0	35	34
R 32 x 1	16	22	19,1	6,0	43,0	43,0	43	53
R 40 x 1 1/4	16	26	21,4	5,0	50,0	50,0	50	62
R 50 x 1 1/2	16	31	21,4	8,0	61,0	61,0	61	110
R 63 x 2	16	38	25,7	7,5	76,0	76,0	76	190

R: RINA

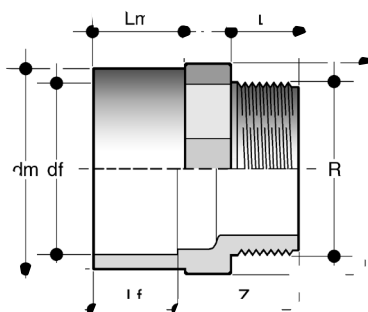
KIFV

ДВОЙНОЙ МУФТОВЫЙ АДАПТОР
 С НАРУЖНОЙ РЕЗЬБОЙ
 Втулочное/муфтовое окончание
 df/dm под клевое соединение
 и окончание R с наружной
 резьбой

DOUBLE ADAPTOR SOCKET
 FEMALE/MALE (DOUBLE VALVE
 SOCKET)
 one end male parallel threaded
 and the other male or female for
 solvent welding

EMBOUT DE PASSAGE
 mâle fileté pas du gaz
 cylindrique, mâle à coller et
 femelle réduit à coller

ÜBERGANGS-MUFFENNIPPEL
 mit Klebemuffe/Klebestutzen
 und zyl. Gewindestutzen
 Anschluß nur für
 Kunststoffgewinde
 21.091.17



	dm x df x R	PN	Lm	Lf	L ₁	Z	K	g
R	16 x 12 x 3/8	16	14	12,5	11,4	21,0	18	4
R	20 x 16 x 3/8	16	16	14,0	11,4	20,0	22	6
R	20 x 16 x 1/2	16	16	14,0	15,0	23,5	22	10
R	25 x 20 x 1/2	16	19	16,0	15,0	25,0	28	12
R	25 x 20 x 3/4	16	19	16,0	16,3	25,5	28	17
R	32 x 25 x 1/2	16	22	19,0	15,0	25,5	34	15
R	32 x 25 x 3/4	16	22	19,0	16,3	27,0	34	21
R	32 x 25 x 1	16	22	19,0	19,1	29,5	34	27
R	40 x 32 x 3/4	16	26	22,0	15,0	27,5	42	28
R	40 x 32 x 1	16	26	22,0	19,1	30,5	42	34
R	40 x 32 x 1 1/4	16	26	22,0	21,4	32,5	42	40
R	50 x 40 x 1	16	31	26,0	19,1	31,5	52	50
R	50 x 40 x 1 1/4	16	31	26,0	21,4	35,0	52	60
R	50 x 40 x 1 1/2	16	31	26,0	21,4	35,0	52	70
R	63 x 50 x 1 1/4	16	38	31,0	21,4	37,0	65	95
R	63 x 50 x 1 1/2	16	38	31,0	21,4	35,0	65	105
R	63 x 50 x 2	16	38	31,0	25,7	39,5	65	150
R	75 x 63 x 1 1/2	16	44	38,0	21,4	38,0	75	125
R	75 x 63 x 2	16	44	38,0	25,7	41,0	75	145
R	75 x 63 x 2 1/2	16	44	38,0	30,2	46,5	75	155
R	90 x 75 x 2	16	51	44,0	25,7	49,0	95	275
R	90 x 75 x 2 1/2	16	51	44,0	30,2	54,0	95	280
R	90 x 75 x 3	16	51	44,0	33,5	56,0	95	300
R	110 x 90 x 2 1/2	16	61	51,0	30,2	57,0	110	370
R	110 x 90 x 3	16	61	51,0	33,5	62,0	110	390
R	110 x 90 x 4	16	61	51,0	39,2	77,0	128	420
R	125 x 110 x 3	16	69	61,0	33,5	59,0	128	450
R	125 x 110 x 4	16	69	61,0	39,2	65,0	128	500

R: RINA

DIMV

ДВОЙНОЙ МУФТОВЫЙ АДАПТОР С ВНУТРЕННЕЙ РЕЗЬБОЙ
Втулочное/муфтовое окончание df/dm под клевое соединение и окончание R с внутренней резьбой и усиливающим кольцом

DOUBLE ADAPTOR SOCKET FEMALE/MALE (DOUBLE VALVE SOCKET) one end female parallel threaded with reinforcing metal ring and the other male or female for solvent welding

EMBOUT DE PASSAGE femelle taraudée pas du gaz cylindrique renforcé au giquage taraudé mâle à coller et femelle réduit à coller

ÜBERGANGS-MUFFENNIPPEL metallring Verstärkt mit Klebemuffe/Klebestutzen und zyl. Gewindemuffe Anschluß nur für Kunststoffgewinde 21.091.17

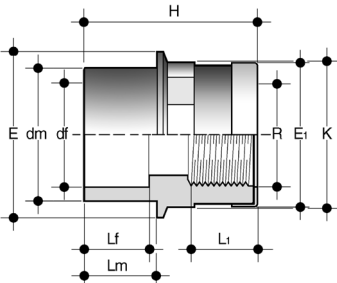


Fig. A

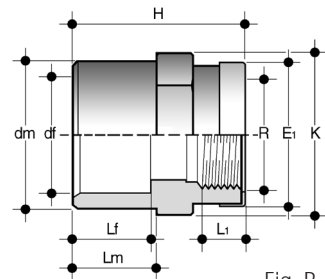


Fig. B

dm x df x R	H	Lm	Lf	L ₁	E	E1	K	Fig	PN	g
20 x 16 x 3/8	37	16	14	11,4	28	24,5	24	A	16	13
20 x 16 x 1/2	40	16	14	15,0	-	29,5	30	B	16	21
25 x 20 x 1/2	43	19	16	15,0	34	29,5	29	A	16	20
25 x 20 x 3/4	46	19	16	16,3	-	36,0	36	B	16	34
32 x 25 x 3/4	50	22	19	16,3	40	36,0	35	A	16	32
32 x 25 x 1	52	22	19	19,1	-	44,0	46	B	16	58
40 x 32 x 1	58	26	22	19,1	52	44,0	44	A	16	58
40 x 32 x 1 1/4	63	26	22	21,4	-	55,0	54	B	16	85
50 x 40 x 1 1/4	68	31	26	21,4	59	55,0	54	A	16	77
50 x 40 x 1 1/2	73	31	26	21,4	-	62,0	65	B	16	141
63 x 50 x 1 1/2	78	38	31	21,4	70	62,0	64	A	16	143
63 x 50 x 2	87	38	31	25,7	-	77,0	80	B	16	212
75 x 63 x 2	77	44	38	25,7	-	77,0	76	B	16	202

DIFV

ДВОЙНОЙ МУФТОВЫЙ АДАПТОР С ВНУТРЕННЕЙ РЕЗЬБОЙ
Втулочное/муфтовое окончание df/dm под клевое соединение и окончание R с внутренней резьбой

DOUBLE ADAPTOR SOCKET FEMALE/MALE (DOUBLE VALVE SOCKET) one end female parallel threaded and the other male or female for solvent welding

EMBOUT DE PASSAGE femelle taraudée pas du gaz cylindrique mâle à coller et femelle réduit à coller

ÜBERGANGS-MUFFENNIPPEL mit Klebemuffe/Klebestutzen und zyl. Gewindemuffe Anschluß nur für Kunststoffgewinde 21.091.17

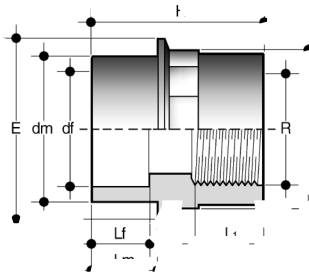


Fig. A

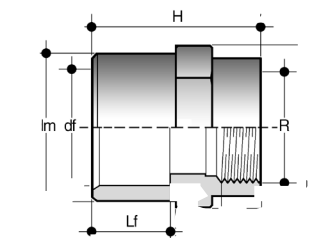
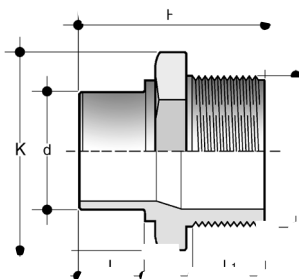


Fig. B

dm x df x R	H	Lm	Lf	L ₁	E	K	Fig	PN	g
20 x 16 x 3/8	36	16	14	11,4	28	24	A	16	11
20 x 16 x 1/2	39	16	14	15,0	-	30	B	16	18
25 x 20 x 1/2	42	19	16	15,0	34	29	A	16	17
25 x 20 x 3/4	45	19	16	16,3	-	36	B	16	28
32 x 25 x 3/4	49	22	19	16,3	40	35	A	16	26
32 x 25 x 1	51	22	19	19,1	-	46	B	16	49
40 x 32 x 1	57	26	22	19,1	52	44	A	16	49
40 x 32 x 1 1/4	62	26	22	21,4	-	54	B	16	74
50 x 40 x 1 1/4	67	31	26	21,4	59	54	A	16	66
50 x 40 x 1 1/2	72	31	26	21,4	-	65	B	16	127
63 x 50 x 1 1/2	77	38	31	21,4	70	64	A	16	129
63 x 50 x 2	86	38	31	25,7	-	80	B	16	190
75 x 63 x 2	76	44	38	25,7	-	76	B	16	180
75 x 63 x 2 1/2	99	44	38	30,2	-	95	B	16	280
90 x 75 x 2 1/2	84	51	44	30,2	-	95	B	16	300
90 x 75 x 3	114	51	44	33,3	-	110	B	16	470
110 x 90 x 3	100	61	51	33,3	-	110	B	16	450
110 x 90 x 4	134	61	51	39,3	-	130	B	16	670
125 x 110 x 4	111	69	61	39,3	-	131	B	16	550

NRIV

ПЕРЕХОДНОЙ НИППЕЛЬ
 Втулочное окончание d под
 клевое соединение и окончание
 R – наружная резьба



BARREL NIPPLE REDUCING
 one end plain for solvent
 welding, the other one parallel
 threaded.

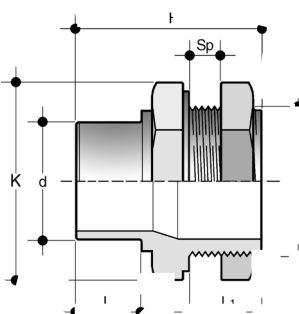
MAMELON DE PASSAGE RÉDUIT
 fileté pas du gaz cylindrique,
 mâle à coller réduit

REDUZIER-NIPPEL
 mit Klebestutzen/zyl. Gewinde-
 stutzen, Anschluß nur für
 Kunststoffgewinde
 21.091.09

d	R	PN	L ₁	H	E	K	g
25	1	16	26	60	53	46	43
32	1 ^{1/4}	16	28	66	63	55	70

LIV

ФИТИНГ ДЛЯ СОЕДИНЕНИЯ
 С ЦИСТЕРНОЙ
 Резьбовое соединение
 с зажимной гайкой, втулка
 под клевое соединение



TANK CONNECTOR
 threaded with nut, with plain
 male connection for solvent
 welding

RACCORD DE RESERVOIR
 par embout mâle fileté avec
 écrou et joint, raccordement
 mâle à coller

BEHÄLTER-ANSCHLUSS
 mit Klebestutzen/zyl.
 Gewindestutzen
 21.092.02

d x R	PN	L	L ₁	H	Sp	K	g
25 x 1	16	19	26	60	17	46	58
32 x 1 ^{1/4}	16	22	28	66	19	55	90

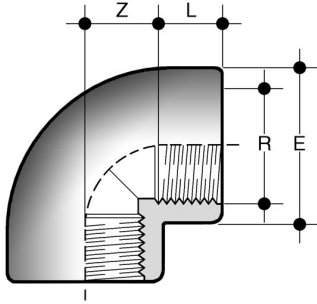
Отвод 90°
Внутренняя резьба

ELBOW 90°
parallel threaded sockets

GFV

COUDE 90°
taraudées pas du gaz cylindrique

WINKEL 90°
beidseitig Gewindemuffen
Anschluß nur für
Kunststoffgewinde
21.010.06



	R	PN	L	Z	E	g
R	3/8	16	11,4	13	23,5	16
R	1/2	16	15,0	13	28,5	24
R	3/4	16	16,3	17	35,0	40
R	1	16	19,1	21	43,0	72
R	1 1/4	16	21,4	27	54,0	130
R	1 1/2	16	21,4	36	61,0	185
R	2	16	25,7	46	76,0	350
R	2 1/2	16	30,2	55	91,0	450
R	3	16	33,3	66	108,0	835
R	4	16	39,3	80	130,0	1135

R: RINA

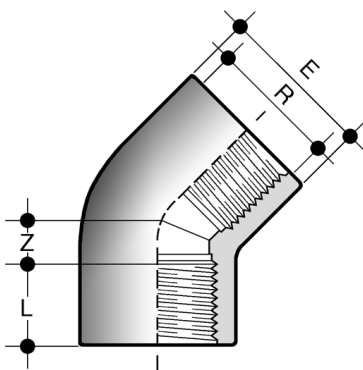
ОТВОД 45°
Внутренняя резьба

ELBOW 45°
parallel threaded sockets

HFV

COUDE 45°
taraudées pas du gaz cylindrique

WINKEL 45°
beidseitig Gewindemuffen
Anschluß nur für
Kunststoffgewinde
21.015.06



	R	PN	L	Z	E	g
R	1/2	16	15,0	6,5	28	18
R	3/4	16	16,3	8,0	33	24
R	1	16	19,1	10,5	41	45
R	1 1/4	16	21,4	15,0	50	68
R	1 1/2	16	21,4	21,0	64	154
R	2	16	25,7	26,0	76	255
R	2 1/2	16	30,2	31,0	90	345
R	3	16	33,3	39,0	107	625

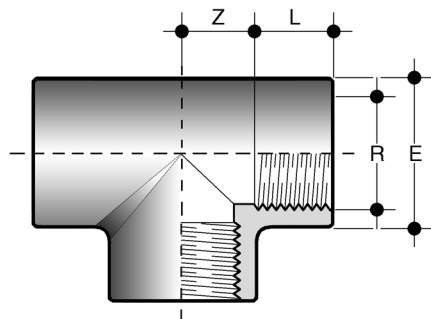
R: RINA

TFV

 ТРОЙНИК 90°
 Внутренняя резьба

 TEE 90°
 parallel threaded sockets

 TE 90°
 taraudées pas du gaz
 cylindrique

 T-STÜCK 90°
 allseitig Gewindemuffen
 Anschluß nur für
 Kunststoffgewinde
 21.020.06


	R	PN	L	Z	E	g
R	3/8	16	11,4	13,0	23,5	20
R	1/2	16	15,0	13,0	28,5	32
R	3/4	16	16,3	17,0	35,0	52
R	1	16	19,1	21,5	43,0	92
R	1 1/4	16	21,4	27,0	50,0	117
R	1 1/2	16	21,4	37,0	61,0	260
R	2	16	25,7	46,0	76,0	465
R	2 1/2	16	30,2	55,0	91,0	640
R	3	16	33,3	66,0	109,0	1135
R	4	16	39,3	83,0	133,0	1710

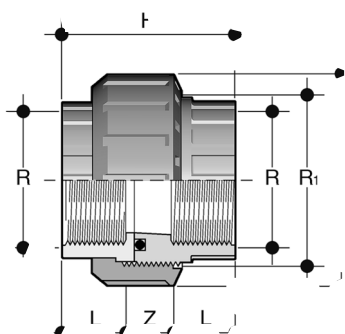
R: RINA

BFV

 РАЗБОРНАЯ МУФТА
 Внутренняя резьба,
 прокладка EPDM или FPM

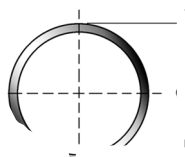
 SOCKET-UNION
 parallel threaded sockets with
 EPDM or FPM gasket

 UNION 3 PIÈCES
 taraudées pas du gaz
 cylindrique joint EPDM ou FPM
 inclus

 VERSCHRAUBUNG
 beidseitig Gewindemuffen
 Anschluß nur für
 Kunststoffgewinde
 21.051.06


	R	R ₁	PN	H	L	Z	E	g	O-Ring		
									C	di	T
R	3/8	3/4	16	40	11,4	17,2	33	22	3062	15,54	2,62
R	1/2	1	16	46	15,0	16,0	41	35	4081	20,22	3,53
R	3/4	1 1/4	16	51	16,3	18,4	50	65	4112	28,17	3,53
R	1	1 1/2	16	57	19,1	18,8	58	85	4131	32,93	3,53
R	1 1/4	2	16	65	21,4	22,2	72	145	6162	40,65	5,34
R	1 1/2	2 1/4	16	65	21,4	22,2	79	180	6187	47,00	5,34
R	2	2 3/4	16	78	25,7	26,6	98	325	6237	59,69	5,34

R: RINA


 T₁

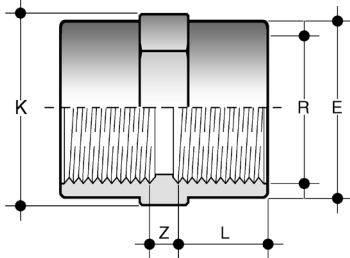
MFV

МУФТА
Внутренняя резьба

DOUBLE SOCKET
parallel threaded sockets

MANCHON
 taraudées pas du gaz
 cylindrique

MUFFE
 beidseitig Gewindemuffen
 Anschluß nur für
 Kunststoffgewinde
 21.091.06



	R	PN	L	Z	E	K	g
R	3/8	16	11,4	8,0	23,5	24	10
R	1/2	16	15,0	7,0	28,5	29	17
R	3/4	16	16,3	8,5	35,0	35	26
R	1	16	19,1	9,0	43,0	43	42
R	1 1/4	16	21,4	11,0	50,0	50	53
R	1 1/2	16	21,4	17,5	61,0	61	108
R	2	16	25,7	19,5	76,0	76	190
R	2 1/2	16	30,2	31,0	90,0	90	275
R	3	16	33,3	40,5	108,0	108	500
R	4	16	39,3	48,5	130,0	131	665

R: RINA

NFV

НИППЕЛЬ
Наружная резьба

BARREL NIPPLE
both ends parallel threaded

MAMELON DOUBLE
 filetés pas du gaz cylindrique

DOPPELNIPPEL
 beidseitig zyl. Gewindestutzen,
 Anschluß nur für
 Kunststoffgewinde
 21.091.19

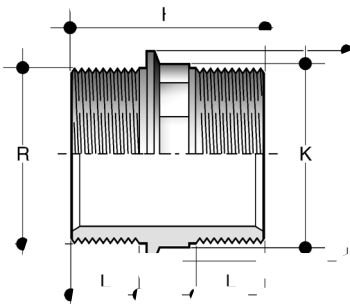


Fig. A

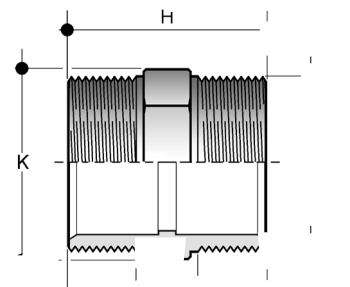


Fig. B

	R	PN	H	K	E	L	Fig	g
R	3/8	16	33,0	18	22	11,4	A	5
R	1/2	16	41,0	23	28	15,0	A	10
R	3/4	16	45,0	28	34	16,3	A	16
R	1	16	51,0	35	40	19,1	A	27
R	1 1/4	16	57,0	44	52	21,4	A	40
R	1 1/2	16	58,0	51	58	21,4	A	55
R	2	16	68,0	64	70	25,7	A	93
	**2 1/2	16	78,0	80	-	30,2	B	150
	**3	16	85,0	95	-	33,3	B	225
	**4	16	97,0	120	-	39,0	B	380

R: RINA

**сокращенный фактор безопасности

**reduced safety factor

**facteur de securité réduit

**mit reduziertem Sicherheitsfaktor

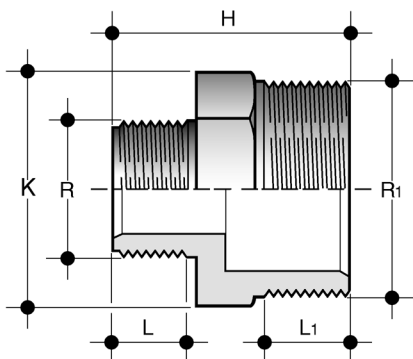
NRFV

ПЕРЕХОДНОЙ НИППЕЛЬ
Оба окончания с наружной
резьбой

BARREL NIPPLE REDUCED
both ends parallel threaded

MAMELON DOUBLE RÉDUIT
filetés pas du gaz cylindrique

REDUZIERNIPPEL
beidseitig zyl. Gewindestutzen
Anschluß nur für
Kunststoffgewinde
21.091.29



R ₁ x R	PN	L ₁	L	H	K	g
3/4 x 1/2	16	16,3	15,0	43	30	16
1 x 3/4	16	19,1	16,3	48	36	26
1 1/4 x 1	16	21,4	19,1	54	46	46
1 1/2 x 1 1/4	16	21,4	21,4	57	50	60
2 x 1 1/2	16	25,7	21,4	62	65	88
2 1/2 x 2	16	30,2	25,7	73	80	140
3 x 2 1/2	16	33,3	30,2	82	95	220
4 x 3	16	39,3	33,3	90	120	350

RFV

ПЕРЕХОДНИК НАРУЖНАЯ/
ВНУТРЕННЯЯ РЕЗЬБА
Наружная резьба (1-ый R –
справочный размер), внутренняя
резьба

REDUCER
male parallel threaded (1st R of
reference) socket parallel
threaded (R₁ reduced)

REDUCTION DOUBLE
mâle fileté sur le 1^{er} R de
référence, femelle taraudée sur
le R₁ réduit

REDUZIERSTÜCK
mit zyl. Gewindestutzen/Gewin-
demuffe Anschluß nur für
Kunststoffgewinde
21.091.18

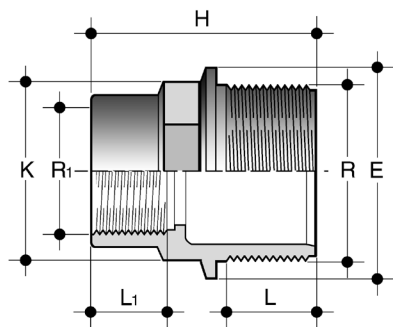


Fig. A

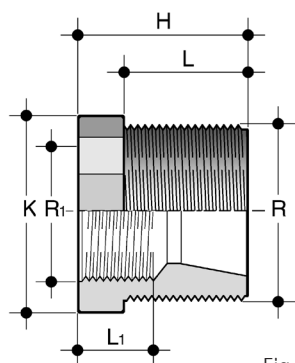


Fig. B

R x R ₁	PN	H	L ₁	L	E	K	Fig	g
R 1/2 x 3/8	16	35	11,4	15,0	28	23	A	10
R 3/4 x 3/8	16	36	11,4	16,3	34	28	A	12
R 3/4 x 1/2	16	39	15,0	16,3	34	28	A	15
R 1 x 3/8	16	41	11,4	19,1	40	35	A	20
R 1 x 1/2	16	44	15,0	19,1	40	35	A	24
R 1 x 3/4	16	46	16,3	19,1	40	35	A	25
R 1 1/4 x 1/2	16	48	15,0	21,4	52	44	A	37
R 1 1/4 x 3/4	16	49	16,3	21,4	52	44	A	37
R 1 1/4 x 1	16	52	19,1	21,4	52	44	A	40
R 1 1/2 x 1/2	16	52	15,0	21,4	58	51	A	46
R 1 1/2 x 3/4	16	50	16,3	21,4	58	51	A	47
R 1 1/2 x 1	16	55	19,1	21,4	58	51	A	52
R 1 1/2 x 1 1/4	16	57	21,4	21,4	58	51	A	54
R 2 x 3/4	16	60	16,3	25,7	70	64	A	80
R 2 x 1	16	63	19,1	25,7	70	64	A	80
R 2 x 1 1/4	16	65	21,4	25,7	70	64	A	85
R 2 x 1 1/2	16	65	21,4	25,7	70	64	A	102
R 2 1/2 x 2	16	56	25,7	30,2	-	80	B	155
R 3 x 2	16	66	25,7	33,3	-	93	B	185
R 3 x 2 1/2	16	66	30,2	33,3	-	93	B	200
R 4 x 3	16	79	33,3	39,3	-	118	B	500

R: RINA

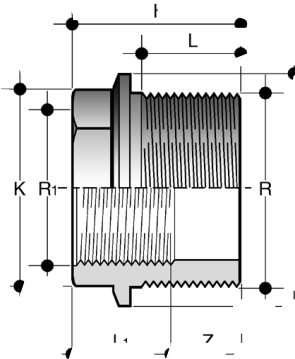
DFV

ПЕРЕХОДНАЯ ВТУЛКА КОРОТКАЯ
Одно окончание с наружной резьбой (R), другое, меньшего диаметра, - с внутренней (R₁)

REDUCING BUSH
male parallel threaded (1st R of reference), socket parallel threaded (R₁ reduced)

REDUCTION SIMPLE
mâle fileté sur le 1^{er} R de référence, femelle taraudée sur le R₁ réduit

REDUKTION
kurz, mit zyl. Geviindestutzen/Gewindemuffe, Anschluß nur für Kunststoffgewinde 21.090.06



	R x R ₁	PN	L ₁	L	H	Z	K	E	g
R	1/2 x 3/8	16	15,0	11,4	24,0	12,6	23	28	7
R	3/4 x 1/2	16	16,3	15,0	26,5	11,5	28	34	9
R	1 x 3/4	16	19,1	16,3	30,5	14,2	35	40	17
R	1 1/4 x 1	16	21,4	19,1	34,0	14,9	44	52	30
R	1 1/2 x 1 1/4	16	21,4	21,4	35,0	13,6	51	58	30
R	2 x 1 1/2	16	25,7	21,4	40,0	18,6	64	70	72

R: RINA

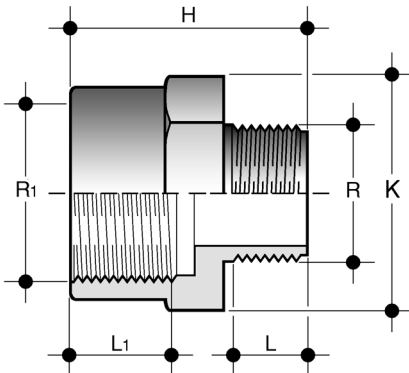
IFFV

ПЕРЕХОДНАЯ ВТУЛКА НАРУЖНАЯ/ВНУТРЕННЯЯ РЕЗЬБА
Внешнее резьбовое соединение (R), внутреннее резьбовое соединение (R₁)

REDUCER FEMALE/MALE
female parallel threaded (1st R of reference), male threaded (R₁ reduced)

RÉDUCTION FEMELLE/MÂLE
femelle taraudée pas du gaz cylindrique sur le 1^{er} R de référence, mâle fileté pas du gaz cylindrique sur le R₁ réduit

REDUZIER-MUFFENNIPPEL
mit zyl. Gewindestutzen/Gewindemuffe, Anschluß nur für Kunststoffgewinde 21.091.28



R ₁ x R	PN	L	L ₁	H	K	g
3/4 x 1/2	16	15,0	16,3	41,0	36	22
1 x 3/4	16	16,3	19,1	45,0	46	42
1 x 1/2	16	15,0	19,1	43,5	46	30
1 1/4 x 1	16	19,1	21,4	55,0	55	55
1 1/2 x 1 1/4	16	21,4	21,4	62,0	65	102
2 x 1 1/2	16	21,4	25,7	69,0	80	165
2 1/2 x 2	16	25,7	30,2	81,0	95	210
3 x 2 1/2	16	30,2	33,3	93,0	110	360
4 x 3	16	33,3	39,3	106,0	130	500

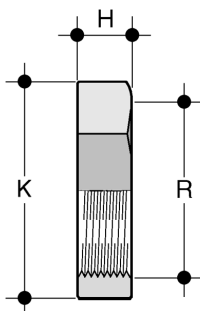
JFV

ГАЙКА
С резьбой для соединителя с цистерной LIV

BACK NUT
with parallel threads for LIV

ÉCROU HEXAGONAL
pas du gaz cylindrique pour LIV

KONTERMUTTER
für Behälteranschlüsse LIV usw. Anschluß nur für Kunststoffgewinde 21.092.00



R	PN	H	K	g
3/8	16	11	25	6
1/2	16	13	28	10
3/4	16	13	33	19
1	16	10	46	14
1 1/4	16	10	55	18
1 1/2	16	19	60	39
2	16	21	79	83

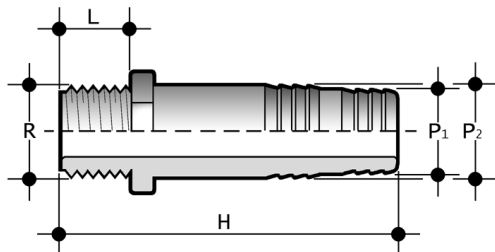
AFV

ШЛАНГОВЫЙ ПЕРЕХОДНИК
Окончание с наружной резьбой

HOSE ADAPTOR
male parallel threaded

EMBOUT CANNELE
fileté pas du gaz cylindrique

DRUCKSCHLAUCHTÜLLE
mit zyl. Gewindestutzen und zyl.
Schlauchstutzen, Anschluß nur
für Kunststoffgewinde
21.096.07



R x P ₁ x P ₂	PN	L	H	g
1/4 x 12 x 14	16	11,0	56	7
3/8 x 16 x 18	16	11,4	58	14
1/2 x 20 x 22	16	15,0	66	19
3/4 x 25 x 27	16	16,3	81	30
1 x 30 x 32	16	19,1	97	45
1 1/4 x 40 x 42	16	21,4	104	85
1 1/2 x 50 x 52	16	21,4	111	120
2 x 60 x 64	16	25,7	123	180

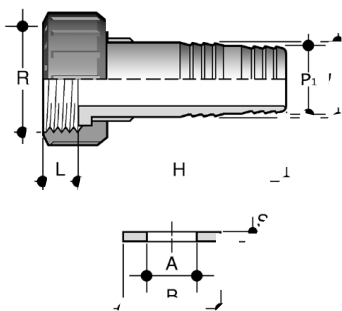
ADV

ШЛАНГОВЫЙ ПЕРЕХОДНИК
С гаечным соединением

HOSE ADAPTOR
with nut connection parallel
threaded

EMBOUT CANNELE
à écrou fileté pas du gaz
cylindrique

DRUCKSCHLAUCHTÜLLE
mit Überwurfmutter u. EPM-
Flachdichtung, Anschluß nur für
Kunststoffgewinde
21.096.00



R x P ₁ x P ₂	PN	L	H	g	A	B	Sp.
1/2 x 12 x 14	16	14,0	56	15	11	18,0	2
3/4 x 16 x 18	16	11,5	60	24	17	24,0	2
1 x 20 x 22	16	11,0	67	35	19	29,5	2
1 1/4 x 25 x 27	16	14,0	81	55	24	38,5	2
1 1/2 x 30 x 32	16	16,0	97	80	32	44,0	3
2 x 40 x 42	16	18,0	104	140	42	55,0	3
2 x 50 x 52	16	16,0	111	180	42	55,0	3
2 1/4 x 50 x 52	16	17,5	111	200	46	62,0	3
2 1/2 x 60 x 64	16	19,0	123	290	50	61,0	2
2 3/4 x 60 x 64	16	20,0	123	300	60	78,0	3

PFV

ЗАГЛУШКА С НАРУЖНОЙ РЕЗЬБОЙ

MALE PLUG
parallel threaded end

BOUCHON MÂLE
fileté pas du gaz cylindrique

STOPFEN
mit zyl. Gewindestutzen
Anschluß nur für
Kunststoffgewinde
21.096.09

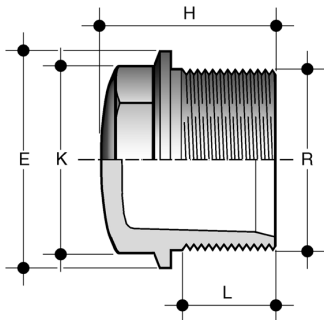


Fig. A

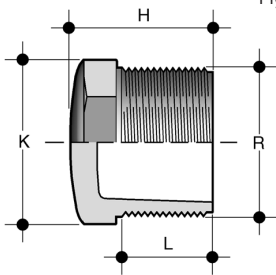


Fig. B

	R	PN	L	H	E	K	Fig	g
R	3/8	16	11,4	22	22	18	A	4
R	1/2	16	15,0	26	28	23	A	8
R	3/4	16	16,3	30	34	28	A	11
R	1	16	19,1	34	40	35	A	21
R	1 1/4	16	21,4	38	52	44	A	30
R	1 1/2	16	21,4	40	58	51	A	46
R	2	16	25,7	47	70	64	A	74
R	2 1/2	16	30,2	61	-	80	B	180
R	3	16	33,3	71	-	93	B	245
R	4	16	39,3	87	-	118	B	550

R: RINA

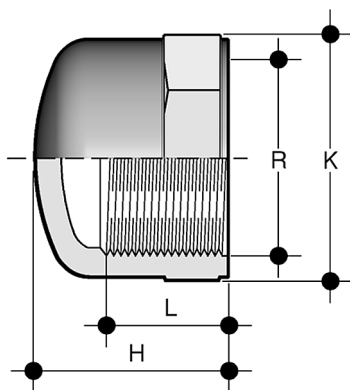
CFV

ЗАГЛУШКА С ВНЕШНЕЙ РЕЗЬБОЙ

END CAP
parallel threaded socket

BOUCHON
tarauté pas du gaz cylindrique

KAPPE
mit Gewindemuffe,
Anschluß nur für
Kunststoffgewinde
21.095.06



	R	PN	L	H	K	g
R	3/8	16	11,4	19	23	6
R	1/2	16	15,0	25	28	10
R	3/4	16	16,3	27	34	15
R	1	16	19,1	31	42	27
R	1 1/4	16	21,4	35	51	40
R	1 1/2	16	21,4	36	58	53
R	2	16	25,7	42	71	85
R	3	16	33,3	55	109	310

R: RINA

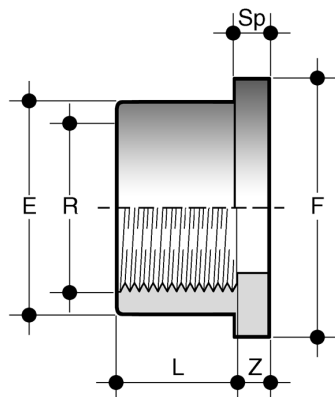
QFV

Плоское уплотнительное кольцо
Для буртов и фланцев

O-RING STUB
socket parallel threaded for
backing ring ODV and compa-
nion stubs QFV, QGV, QPV, QRV

COLLET
fileté pas du gaz cylindrique
pour bride libre ODV et contre
collets QFV, QGV, QPV, QRV

BUNDBUCHSE
Gewindemuffe, Dichtfläche mit
O-Ring-Nut zur Kombination mit
21.080.01.
Anschluß nur für
Kunststoffgewinde
21.081.06



	R	DN	PN	L	Z	Sp	E	F	g
R	1/2	15	16	15,0	4	6	27	35	11
R	3/4	20	16	16,3	6	7	33	41	17
R	1	25	16	19,1	6	7	41	50	26
R	1 1/4	32	16	21,4	8	8	50	62	40
R	1 1/2	40	16	21,4	13	8	61	73	70
R	2	50	16	25,7	15	9	76	90	130
R	2 1/2	65	16	30,2	17	10	90	106	175
R	3	80	16	33,3	23	11	108	125	310
R	4	100	16	39,3	27	12	131	150	420

R: RINA



ISO-UNI FITTINGS
PVC-U

Solvent weld fittings, metric series

FITTINGS ISO-UNI

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

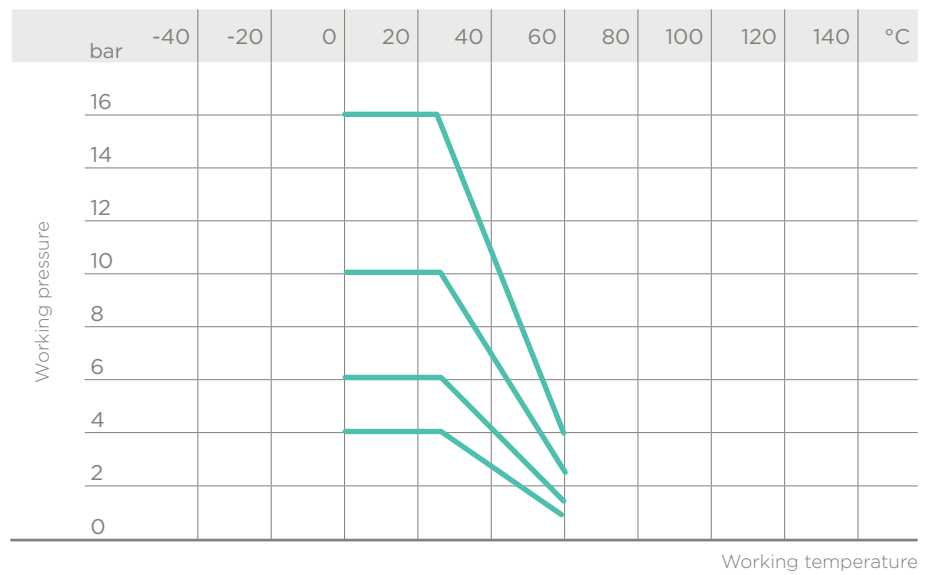
SOLVENT WELD FITTINGS, METRIC SERIES

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

TECHNICAL DATA

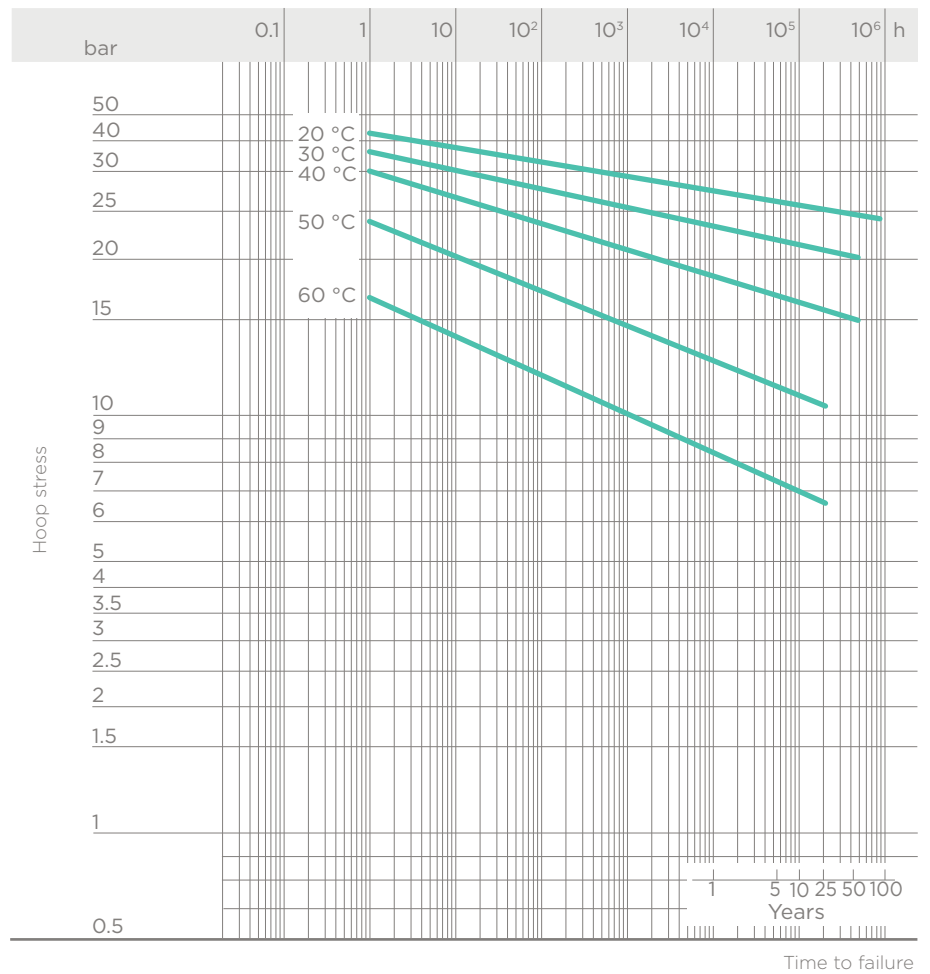
PRESSURE VARIATION ACCORDING TO TEMPERATURE

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



REGRESSION CURVE FOR PVC-U FITTINGS

Regression coefficients according to EN ISO 1452 and EN ISO 15493 for MRS (minimum required strength) values = 25 N/mm² (MPa) (classification PVC-U 250).



SAFETY FACTORS

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

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

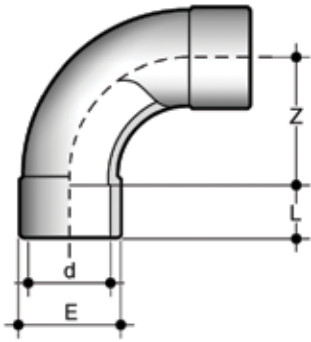
- solvent weld fittings
from d 12 to d 225 PN 16
from d 250 to d 315 PN 10
- adaptor fittings
from d 16 to d 110 PN 16
- threaded fittings
from R 3/8" to R 4" up to PN 16.

Some of the fittings in the series are sold as PN16 with a reduced safety factor compared to that specified by ISO standards.

Pe (bar)	1h	1000h	50 years	T
10	6.72	5.12	4	
16	4.2	3.2	2.5	
16*	3.3	2.5	2	

*with reduced safety factor

DIMENSIONS



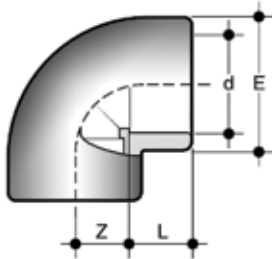
SIV

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

	d	PN	E	L	Z	g	Code
IH	20	16	27	16	40.5	35	SIV020
IH	25	16	33	19	50	55	SIV025
IH	32	16	41	22	65.5	100	SIV032
IH	40	16	50	26	80.5	175	SIV040
IH	50	16	61	31	100.5	280	SIV050
IH	63	16	76	38	127	515	SIV063
I	75	16	94	44	150	1000	SIV075
I	90	16	113	51	180	1770	SIV090
I	110	16	137	61	220	2800	SIV110
I	*160	16	189	86	207	5020	SIV160

I: IIP 122 H: KIWA K5034 ND 10
*reduced safety factor (PN 10)

Fig. A



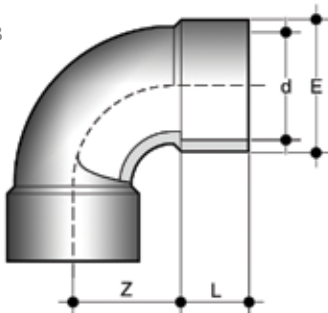
GIV

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

	d	PN	E	L	Z	g	Code
	12	16	17	12	8	4	GIV012
IFH	16	16	22	14	9	11	GIV016
IFH	20	16	26	16	12	15	GIV020
IFH	25	16	32	19	15	30	GIV025
IFH	32	16	40	22	19	50	GIV032
IFH	40	16	50	26	22	90	GIV040
IFH	50	16	59	31	27.5	160	GIV050
IFH	63	16	76	38	33.5	290	GIV063
IF	75	16	91	44	41	450	GIV075
IF	90	16	108	51	47.5	680	GIV090
IF	110	16	130	61	61	1180	GIV110
IF	125	16	148	69	64	1650	GIV125
IF	140	16	163	76	77	2080	GIV140
IF	160	16	193	86	89	3980	GIV160
	*180	16	215	96	94	5200	GIV180
	*200	16	229	106	100	5360	GIV200

I: IIP 122 F: AFNOR NF04 H: KIWA K5034 ND 10
*reduced safety factor

Fig. B

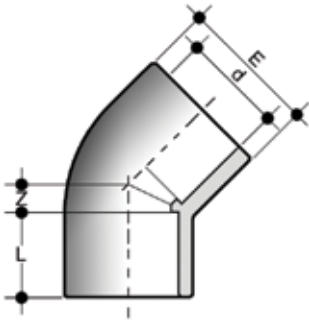


GIV

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

d	PN	E	L	Z	g	Code
*225	16	258	119	171.5	8700	GIV225
250	10	287	131	188	12480	GIV250
280	10	325	147	210	17000	GIV280
315	10	359	164	236	23370	GIV315

*reduced safety factor

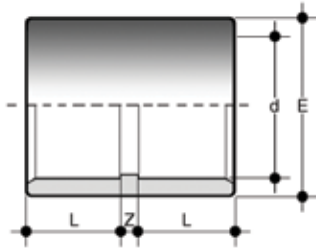


HIV

45° elbow with solvent weld sockets

	d	PN	E	L	Z	g	Code
	12	16	17	12	4	5	HIV012
	16	16	21	14	5	6	HIV016
IFH	20	16	28	16	5.5	20	HIV020
IFH	25	16	33	19	6	26	HIV025
IFH	32	16	41	22	7.5	45	HIV032
IFH	40	16	50	26	10.5	70	HIV040
IFH	50	16	61	31	11.5	120	HIV050
IFH	63	16	76	38	14	200	HIV063
IF	75	16	90	44	17	320	HIV075
IF	90	16	107	51	21.5	550	HIV090
IF	110	16	130	61	26	915	HIV110
IF	125	16	147	69	31	1315	HIV125
IF	140	16	163	76	34	1660	HIV140
IF	160	16	192	86	38	3060	HIV160
	**180	4	208	97	38	3500	HIV180
	200	10	230	108	48	4500	HIV200
	225	10	260	121	55	6400	HIV225
	250	10	286	131	58	7700	HIV250
	280	10	320	146	62	10460	HIV280
	315	10	359	164	66	15500	HIV315

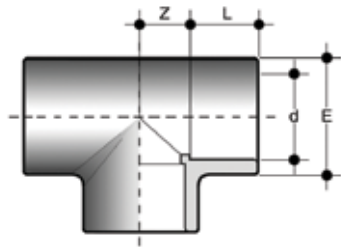
I: IIP 122 **F:** AFNOR NF04 **H:** KIWA K5034 ND 10
 **resale product



MIV
Solvent weld double socket

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

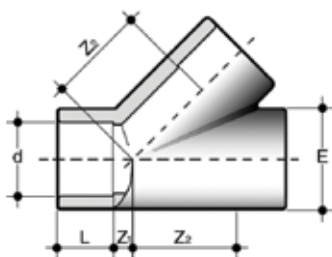
I: IIP 122 **F:** AFNOR NF04 **H:** KIWA K5034 ND 10
 *reduced safety factor
 **resale product



TIV
90° Tee with solvent weld sockets

	d	PN	E	L	Z	g	Code
	12	16	17	12	8	6	TIV012
FH	16	16	22	14	9	15	TIV016
IFH	20	16	27	16	11	25	TIV020
IFH	25	16	33	19	14	40	TIV025
IFH	32	16	40	22	18	65	TIV032
IFH	40	16	49	26	22	114	TIV040
IFH	50	16	61	31	27	185	TIV050
IFH	63	16	76	38	34	380	TIV063
IF	75	16	91	44	40.5	605	TIV075
IF	90	16	109	51	48.5	985	TIV090
IF	110	16	133	61	61	1760	TIV110
IF	125	16	151	69	64	2430	TIV125
IF	140	16	174	76	77	4150	TIV140
IF	160	16	193	86	88	5250	TIV160
	180	16	215	96	94	6180	TIV180
	*200	16	228	106	101	6810	TIV200
	*225	16	258	119	114	12680	TIV225
	250	10	286	131	128	13250	TIV250
	280	10	319	146	144	17840	TIV280
	315	10	360	164	162	25300	TIV315

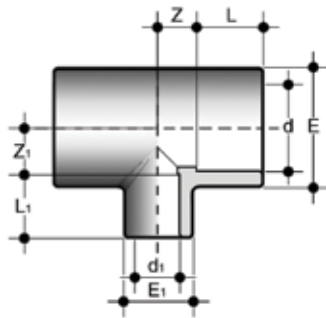
I: IIP 122 F: AFNOR NF04 H: KIWA K5034 ND 10
*reduced safety factor



YIV
45° Tee with solvent weld sockets

d	PN	E	L	Z ₁	Z ₂	g	Code
20	16	27	16	7	30	39	YIV020
25	16	33	19	7	35	62	YIV025
32	16	41	22	9	44	110	YIV032
40	16	51	26	11	55	190	YIV040
50	16	63	31	12	68.5	335	YIV050
63	16	78	38	15	85	570	YIV063
**160	4	189	86	35	200	6500	YIV160

**resale product

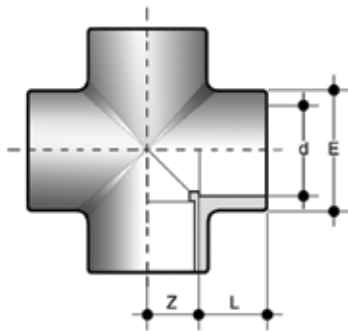


TRIV

90° reducing Tee with reduced branch and solvent weld sockets

d x d ₁	PN	E	E ₁	L	L ₁	Z	Z ₁	g	Code
25 x 20	16	33	28	19	16	14	14	37	TRIV025020
32 x 20	16	41	28	22	16	17.5	17.5	60	TRIV032020
32 x 25	16	41	34	22	19	17.5	17.5	65	TRIV032025
40 x 20	16	50	29	26	16	22	22	100	TRIV040020
40 x 25	16	50	34	26	19	22	22	100	TRIV040025
40 x 32	16	50	42	26	22	22	22	105	TRIV040032
50 x 20	16	61	30	31	16	27	27	160	TRIV050020
50 x 25	16	61	35	31	19	27	27	160	TRIV050025
50 x 32	16	61	42	31	22	27	27	165	TRIV050032
50 x 40	16	61	51	31	26	27	27	170	TRIV050040
63 x 25	16	76	36	38	19	33.5	33.5	290	TRIV063025
63 x 32	16	76	43	38	22	33.5	33.5	295	TRIV063032
63 x 40	16	76	52	38	26	33.5	33.5	300	TRIV063040
63 x 50	16	76	62	38	31	33.5	33.5	315	TRIV063050
75 x 32	16	91	41	44	22	40	40	530	TRIV075032
75 x 40	16	91	50	44	26	40	40	540	TRIV075040
75 x 50	16	91	61	44	31	40	40	550	TRIV075050
75 x 63	16	91	76	44	38	40	40	580	TRIV075063
90 x 40	16	109	50	51	26	48	48	870	TRIV090040
90 x 50	16	109	61	51	31	48	48	880	TRIV090050
90 x 63	16	109	76	51	38	48	48	900	TRIV090063
90 x 75	16	109	91	51	44	48	48	940	TRIV090075
110 x 50	16	133	61	61	31	61	61	1580	TRIV110050
110 x 63	16	133	76	61	38	61	61	1590	TRIV110063
110 x 75	16	133	91	61	44	61	61	1610	TRIV110075
110 x 90	16	133	109	61	51	61	61	1640	TRIV110090
**160 x 110	16	187	131	86	61	59	84	3450	TRIV160110
180 x 125	16	215	151	96	69	94	94	6760	TRIV180125
**250 x 110	4	285	134	129	63	61	128	8300	TRIV250110
**250 x 160	4	285	193	129	87	86	129	9900	TRIV250160
**250 x 200	4	285	228	129	106	133	132	12000	TRIV250200
**280 x 160	4	320	193	146	88	84	153	12500	TRIV280160
**280 x 225	4	320	258	146	117.5	117	150.5	14900	TRIV280225
**315 x 160	4	355	193	164	86	83	161	15000	TRIV315160
**315 x 200	4	355	228	164	106	102	179	17500	TRIV315200
**315 x 250	4	355	285	164	131	127	160	19200	TRIV315250

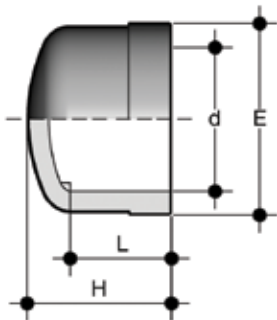
**resale product



XIV
90° cross with solvent weld sockets

	d	PN	E	L	Z	g	Code
H	25	16	35	19	14	60	XIV025
H	32	16	43	22	18	105	XIV032
H	40	16	52	26	23	175	XIV040
H	50	16	64	31	27	265	XIV050
H	63	16	79	38	33.5	505	XIV063

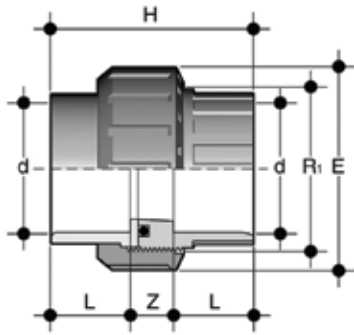
H: KIWA K5034 ND 10



CIV
End cap with solvent weld socket

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

I: IIP 122 F: AFNOR NF04

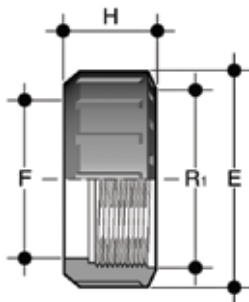


BIV

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

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

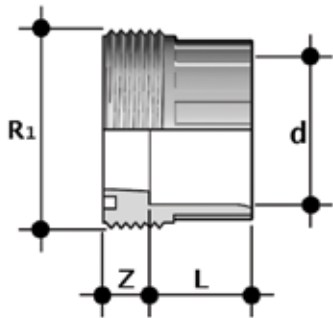
I: IIP 122



EFV

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

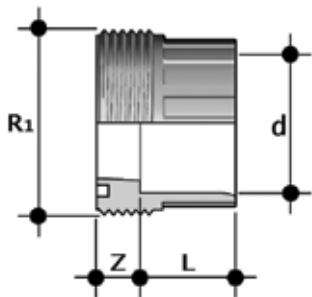
R ₁	d BIV	PN	E	F	H	g	Code
3/8"	-	16	23	13	20	5	EFV038
1/2"	-	16	27	17	24	8	EFV012
3/4"	16	16	33	22	21	9	EFV034
1"	20	16	41	28	22	13	EFV100
1" 1/4	25	16	50	36	25	22	EFV114
1" 1/2	32	16	58	42	27	30	EFV112
2"	40	16	72	53	30	50	EFV200
2" 1/4	50	16	79	59	34	68	EFV214
2" 1/2	-	16	90	68	36	95	EFV212
2" 3/4	63	16	98	74	38	120	EFV234
3" 1/2	75	10	120	93	45	198	EFV312
4"	90	10	135	106	52	278	EFV400
5"	110	10	163	129	60	448	EFV500



F/BIV

Union bush for solvent welding, metric series

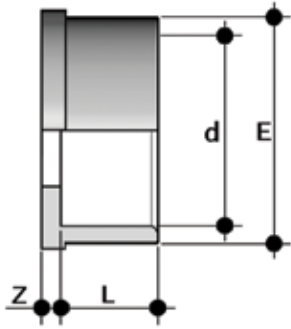
d	R ₁	PN	L	Z	g	Code
16	3/4"	16	14	10	9	FBIV016
20	1"	16	16	10	13	FBIV020
25	1" 1/4	16	19	10	25	FBIV025
32	1" 1/2	16	22	10	31	FBIV032
40	2"	16	26	12	58	FBIV040
50	2" 1/4	16	31	14	63	FBIV050
63	2" 3/4	16	38	19	119	FBIV063
75	3" 1/2	10	44	18	230	FBIV075
90	4"	10	51	18	290	FBIV090
110	5"	10	61	18	500	FBIV110



F/BLV

Union bush for solvent welding, series BS

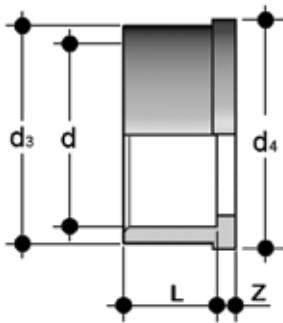
d	R ₁	PN	L	Z	g	Code
1/2"	1"	16	16	10	12.5	FBLV012
3/4"	1" 1/4	16	19	10	22.5	FBLV034
1"	1" 1/2	16	22	10	30	FBLV100
1" 1/4	2"	16	26	12	52	FBLV114
1" 1/2	2" 1/2	16	31	14	69.5	FBLV112
2"	2" 3/4	16	38	19	133.5	FBLV200



Q/BIV

Union end for solvent welding, metric series

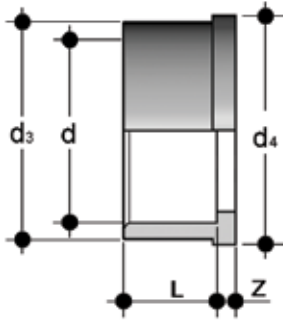
d	PN	E	L	Z	g	Code
16	16	22	14	3	5	QBIV016
20	16	28	16	3	8	QBIV020
25	16	36	19	3	15	QBIV025
32	16	42	22	3	24	QBIV032
40	16	53	26	3	37	QBIV040
50	16	59	31	3	42	QBIV050
63	16	74	38	3	77	QBIV063
75	10	93	44	3	150	QBIV075
90	10	105	51	5	192	QBIV090
110	10	129	61	5	335	QBIV110



Q/BLV

Union end for solvent welding, BS series

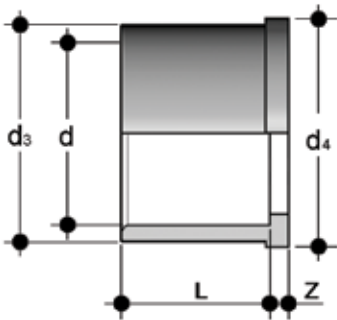
d	PN	d ₃	d ₄	L	Z	g	Code
1/2"	16	27.5	30.1	16	3	8	QBLV012
3/4"	16	36	38.8	19	3	13	QBLV034
1"	16	41.5	44.7	22	3	19	QBLV100
1" 1/4	16	53	56.5	26	3	32	QBLV114
1" 1/2	16	59	62.6	31	3	46	QBLV112
2"	16	74	78.4	38	3	86	QBLV200



Q/BAV

Union end for solvent welding, ASTM series

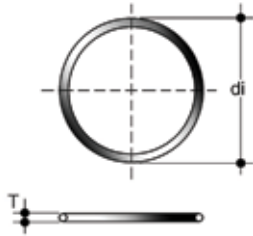
d	PN	d ₃	d ₄	L	Z	g	Code
1/2"	16	27.5	30.1	22.7	3.5	15.5	QBAV012
3/4"	16	36	38.8	25.9	3.7	22.5	QBAV034
1"	16	41.5	44.7	29.2	3	32.5	QBAV100
1" 1/4	16	53	56.5	32	5	57	QBAV114
1" 1/2	16	59	62.6	35	5	78	QBAV112
2"	16	74	78.4	38.5	5.5	130	QBAV200



Q/BJV

Union end for solvent welding, JIS series

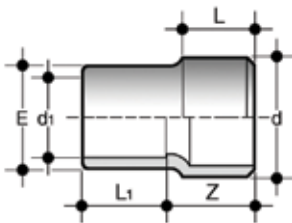
d	PN	d ₃	d ₄	L	Z	g	Code
1/2"	16	27.5	30.1	30	3	16	QBJV012
3/4"	16	36	38.8	35	3.5	21	QBJV034
1"	16	41.5	44.7	40	3	40	QBJV100
1" 1/4	16	53	56.5	44	3	68	QBJV114
1" 1/2	16	59	62.6	55	4.5	105	QBJV112
2"	16	74	78.4	62.9	5.5	175	QBJV200



O-Ring

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

Union d	C	di	T	EPDM code	FPM code
16	3062	15.54	2.62	OR3062E	OR3062F
20	4081	20.22	3.53	OR4081E	OR4081F
25	4112	28.17	3.53	OR4112E	OR4112F
32	4131	32.93	3.53	OR4131E	OR4131F
40	6162	40.65	5.34	OR6162E	OR6162F
50	6187	47	5.34	OR6187E	OR6187F
63	6237	59.69	5.34	OR6237E	OR6237F
75	6300	75.57	5.34	OR6300E	OR6300F
90	6362	91.45	5.34	OR6362E	OR6362F
110	6450	113.67	5.34	OR6450E	OR6450F

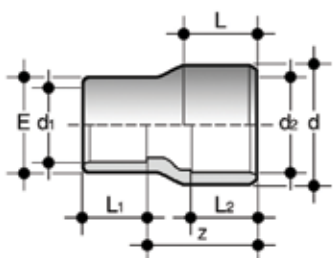


RIV

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

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

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



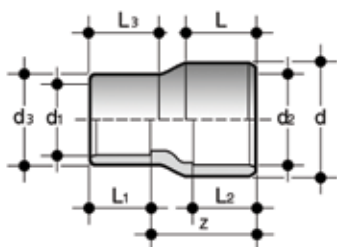
RIV

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

	d x d ₂ x d ₁	PN	E	L	L ₁	L ₂	Z	g	Code
IF	25 x 20 x 16	16	22	19	14	16	24.5	9	RIV025020016
IF	25 x 20 x 20	16	26	19	16	16	24.5	12	RIV025020020
IF	32 x 25 x 16	16	22	22	14	19	30	14	RIV032025016
IF	32 x 25 x 20	16	27	22	16	19	30	16	RIV032025020
IF	32 x 25 x 25	16	32	22	19	19	30	20	RIV032025025
IF	40 x 32 x 20	16	27	26	16	22	36	23	RIV040032020
IF	40 x 32 x 25	16	32	26	19	22	36	27	RIV040032025
IF	40 x 32 x 32	16	41	26	22	22	36	34	RIV040032032
I	50 x 40 x 20	16	27	31	16	26	44	36	RIV050040020
IF	50 x 40 x 25	16	32	31	19	26	44	40	RIV050040025
IF	50 x 40 x 32	16	40	31	22	26	44	48	RIV050040032
IF	50 x 40 x 40	16	48	31	26	26	44	55	RIV050040040
I	63 x 50 x 25	16	32	38	19	31	54	75	RIV063050025
IF	63 x 50 x 32	16	40	38	22	31	54	80	RIV063050032
IF	63 x 50 x 40	16	49	38	26	31	54	90	RIV063050040
IF	63 x 50 x 50	16	60	38	31	31	54	110	RIV063050050
IF	75 x 63 x 50	16	61	44	31	38	62	130	RIV075063050
IF	75 x 63 x 63	16	76	44	38	38	62	175	RIV075063063
I	110 x 90 x 50	16	61	61	31	51	88	260	RIV110090050
I	110 x 90 x 63	16	76	61	38	51	88	300	RIV110090063
I	110 x 90 x 75	16	89	61	44	51	88	345	RIV110090075
IF	110 x 90 x 90	16	104	61	51	51	88	400	RIV110090090

I: IIP 122 F: AFNOR NF04

RIV: the quality marks refer to dimensions d and d₁



RIV

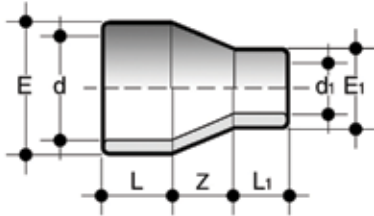
Reducer: solvent weld spigot (d) or solvent weld socket (d₂), solvent weld socket (d₁ reduced) or solvent weld spigot (d₃ reduced)

	d x d ₂ x d ₃ x d ₁	PN	E	L	L ₁	L ₂	L ₃	Z	g	Code
I	90 x 75 x 50 x 40	16	-	51	26	44	31	74	180	RIV090075050040
IF	90 x 75 x 63 x 50	16	-	51	31	44	38	74	200	RIV090075063050
IF	90 x 75 x 75 x 63	16	-	51	38	44	44	74	260	RIV090075075063
IF	90 x 75 x 90 x 75	16	-	51	44	44	51	74	325	RIV090075090075

I: IIP 122 F: AFNOR NF04

RIV: the quality marks refer to dimensions d and d₁

Fig. A



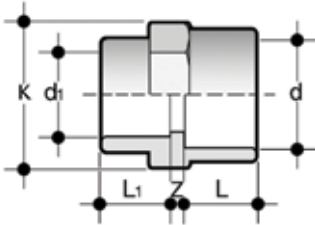
MRIV

Reducer: solvent weld double socket (fig. A)

d x d ₁	PN	E	E ₁	K	L	L ₁	Z	g	Code
*180 x 125	4	214	154	-	95	68	48.8	2700	MRIV180125
*180 x 140	4	214	170	-	95	76	35	2700	MRIV180140
*180 x 160	4	214	190	-	95	86	17	2800	MRIV180160
*200 x 110	4	234	138	-	102	61	78	3100	MRIV200110
*200 x 125	4	234	154	-	102	68	65	3100	MRIV200125
*200 x 140	4	234	170	-	102	76	52	3200	MRIV200140
*200 x 160	4	234	190	-	102	86	35	3200	MRIV200160
*200 x 180	4	234	213	-	102	95	17	3300	MRIV200180
*225 x 110	4	258	138	-	103	62	100	4000	MRIV225110
*225 x 140	4	258	170	-	103	76	74	3800	MRIV225140
*225 x 160	4	258	190	-	103	86	57	4000	MRIV225160
*225 x 180	4	258	214	-	103	95	40	3500	MRIV225180
*225 x 200	4	258	234	-	103	102	22	3500	MRIV225200
*250 x 110	4	283	138	-	105	62	122	4500	MRIV250110
*250 x 125	4	283	154	-	105	68	108	4700	MRIV250125
*250 x 140	4	283	170	-	105	76	96	4600	MRIV250140
*250 x 160	4	283	190	-	105	86	78	4700	MRIV250160
*250 x 180	4	283	214	-	105	95	62	4600	MRIV250180
*250 x 200	4	283	234	-	105	102	44	4500	MRIV250200
*250 x 225	4	283	258	-	105	103	22	4900	MRIV250225
*280 x 110	4	317	138	-	101	62	150	5400	MRIV280110
*280 x 125	4	317	154	-	101	68	136	5400	MRIV280125
*280 x 140	4	317	170	-	101	76	123	5400	MRIV280140
*280 x 160	4	317	190	-	101	86	105	5700	MRIV280160
*280 x 180	4	317	214	-	101	95	87	5700	MRIV280180
*280 x 200	4	317	234	-	101	102	70	5800	MRIV280200
*280 x 225	4	317	258	-	101	103	47	5500	MRIV280225
*280 x 250	4	317	283	-	101	105	26	5400	MRIV280250
*315 x 160	4	355	190	-	105	86	135	6400	MRIV315160
*315 x 180	4	355	214	-	105	95	117	6600	MRIV315180
*315 x 200	4	355	234	-	105	102	100	6800	MRIV315200
*315 x 225	4	355	258	-	105	103	79	7200	MRIV315225
*315 x 250	4	355	283	-	105	105	57	6800	MRIV315250
*315 x 280	4	355	317	-	105	101	31	7100	MRIV315280
*355 x 315	4	394	355	-	105	105	35	7500	MRIV355315
*400 x 315	4	435	355	-	105	105	75	9500	MRIV400315
*400 x 355	4	435	394	-	105	105	40	9000	MRIV400355

*resale product

Fig. B



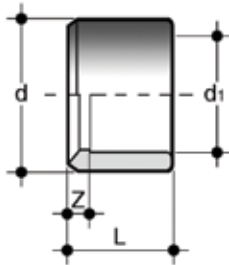
MRIV

Reducer: solvent weld double socket (fig. B)

d x d ₁	PN	E	E ₁	K	L	L ₁	Z	g	Code
*110 x 90	16	-	-	130	61	51	4.5	555	MRIV110090

*reduced safety factor

Fig. A



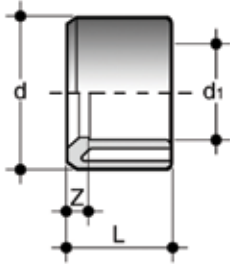
DIV

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

	d x d ₁	PN	L	Z	g	Code
	16 X 12	16	14	2	1	DIV016012
IF	20 X 16	16	16	2	3	DIV020016
IF	25 X 20	16	19	3	5	DIV025020
I	32 X 20	16	22	6	15	DIV032020
IF	32 X 25	16	22	3.5	10	DIV032025
IF	40 X 32	16	26	4	17	DIV040032
IF	50 X 40	16	31	5	32	DIV050040
IF	63 X 50	16	38	7	65	DIV063050
IF	75 X 63	16	44	6	85	DIV075063
IF	90 X 75	16	51	7	150	DIV090075
IF	110 X 90	16	61	9	270	DIV110090
IF	125 X 110	16	69	8	285	DIV125110
I	140 X 110	16	76	17	645	DIV140110
IF	140 X 125	16	76	9.5	350	DIV140125
IF	160 X 140	16	86	10	565	DIV160140
	*225 X 200	16	119	13	1380	DIV225200
	250 X 200	10	132	25	3500	DIV250200
	250 X 225	10	132	12	2100	DIV250225
	**280 x 250	4	147	15	2500	DIV280250
	315 x 280	10	165	18	4590	DIV315280

I: IIP 122 F: AFNOR NF04
 *reduced safety factor
 **resale product

Fig. B

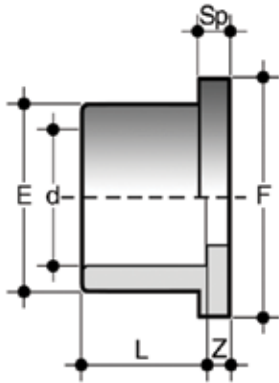


DIV

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

	d x d ₁	PN	L	Z	g	Code
I	40 X 20	16	26	9	25	DIV040020
I	40 X 25	16	26	7	24	DIV040025
I	50 X 32	16	31	8.5	35	DIV050032
I	63 X 32	16	38	16	73	DIV063032
I	63 X 40	16	38	11.5	75	DIV063040
I	75 X 50	16	44	13	120	DIV075050
I	90 X 50	16	51	20	200	DIV090050
I	90 X 63	16	51	13	210	DIV090063
I	110 X 63	16	61	23	340	DIV110063
I	110 X 75	16	61	17	360	DIV110075
I	140 X 90	16	76	25	730	DIV140090
I	160 X 90	16	86	35	1040	DIV160090
I	160 X 110	16	86	24	945	DIV160110
	*180 X 160	4	96	10	710	DIV180160
	*200 X 160	16	106	20	1310	DIV200160
	*200 X 180	4	106	10	870	DIV200180
	225 X 160	16	119	33	1840	DIV225160
	250 X 160	10	132	45	3100	DIV250160
	*250 X 180	4	132	36	3100	DIV250180
	*280 X 200	4	146	40	4100	DIV280200
	280 x 225	10	147	27	4300	DIV280225
	315 x 200	10	165	58	8650	DIV315200
	315 x 225	10	165	45	8100	DIV315225
	315 x 250	10	165	33	5080	DIV315250

I: IIP 122
*resale product



QPV

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

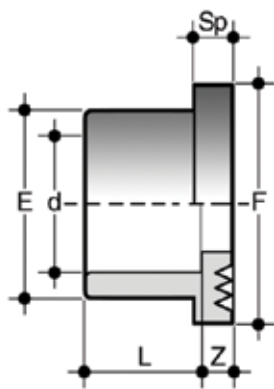
	d	DN	PN	E	F	L	Sp	Z	g	Code
I	20	15	16	27	34	16	7	3.5	10	QPV020
I	25	20	16	33	41	19	7	3	16	QPV025
I	32	25	16	41	50	22	7	3	25	QPV032
I	40	32	16	50	61	26	8	3	40	QPV040
I	50	40	16	61	73	31	8	3	62	QPV050
I	63	50	16	76	90	38	9	3	105	QPV063
I	75	65	16	90	105	44	10	3	160	QPV075
I	90	80	16	108	125	51	10	5	275	QPV090
I	110	100	16	131	150	61	12	4	445	QPV110
I	125	125	16	147	168	69	13	5	750	QPV125
I	125	***125	16	165	188	69	13	11	760	QPV125FKE
I	140	125	16	165	188	76	14	5	790	QPV140
	160	150	16	188	212	86	16	4.5	1140	QPV160
	200	***200	16	248	273	106	30	24	2700	QPV200FKE
	200	*200	16	230	254	106	18	5.5	1840	QPV200
	355	**350	4	386	413	184	29	8	5400	QPV355
	400	**400	4	430	483	206	26	12	6500	QPV400
	450	**450	4	486	538	-	19	8	5200	QPV450
	500	**500	4	532	574	-	18	-	3000	QPV500

I: IIP 122

*reduced safety factor

**resale product

***special stubs for butterfly valves FK-FE



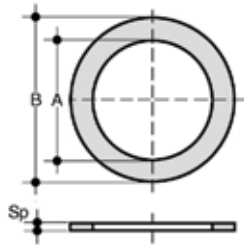
QRV

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

	d	DN	PN	E	F	L	Sp	Z	g	Code
I	40	32	16	50	61	26	8	3	40	QRV040
I	50	40	16	61	73	31	8	3	62	QRV050
I	63	50	16	76	90	38	9	3	105	QRV063
I	75	65	16	90	105	44	10	3	160	QRV075
I	90	80	16	108	125	51	10	5	275	QRV090
I	110	100	16	131	150	61	12	4	445	QRV110
I	125	125	16	147	168	69	13	5	750	QRV125
I	140	125	16	165	188	76	14	5	790	QRV140
I	160	150	16	188	212	86	16	4.5	1140	QRV160
	200	*200	16	230	254	106	18	5.5	1840	QRV200
	225	*200	16	245	273	119	25	5.5	1750	QRV225
	250	*250	16	270	306	131	20	8.5	2140	QRV250
	280	250	10	307	327	147	32	14.5	3650	QRV280
	315	300	10	346	377	165	32	16	4950	QRV315

I: IIP 122

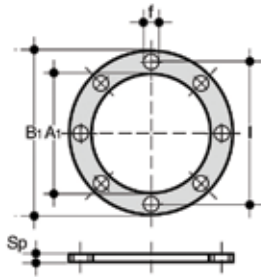
*reduced safety factor



QHV/X

Flat gasket in EPDM and FPM for flanges according to DIN 2501, EN1092

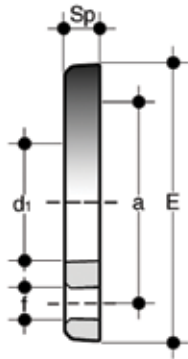
d	DN	A	B	Sp	EPDM code	FPM code
16	10	16	27	2	QHVX016E	QHVX016F
20 - 1/2"	15	20	32	2	QHVX020E	QHVX020F
25 - 3/4"	20	24	38.5	2	QHVX025E	QHVX025F
32 - 1"	25	32	48	2	QHVX032E	QHVX032F
40 - 1" 1/4	32	40	59	2	QHVX040E	QHVX040F
50 - 1" 1/2	40	50	71	2	QHVX050E	QHVX050F
63 - 2"	50	63	88	2	QHVX063E	QHVX063F
75 - 2" 1/2	65	75	104	2	QHVX075E	QHVX075F
90 - 3"	80	90	123	2	QHVX090E	QHVX090F
110 - 4"	100	110	148	3	QHVX110E	QHVX110F
125	125	125	166	3	QHVX125E	QHVX125F
140	125	140	186	3	QHVX140E	QHVX140F
160 - 6"	150	160	211	3	QHVX160E	QHVX160F
200	200	200	252	4	QHVX200E	-
225 - 8"	200	225	270	4	QHVX225E	-
250	250	250	305	4	QHVX250E	-



QHV/Y

Flat gasket in EPDM for flanges according to DIN2501, EN1092, self-centring for flanges drilled PN10/16 up to DN 150 and PN 10 from DN 200

d	DN	A ₁	B ₁	F	I	U	Sp	Code
16	10	-	-	-	-	-	-	-
20 - 1/2"	15	17	95	14	65	4	2	QHVV020E
25 - 3/4"	20	22	107	14	76.3	4	2	QHVV025E
32 - 1"	25	28	117	14	86.5	4	2	QHVV032E
40 - 1" 1/4	32	36	142.5	18	101	4	2	QHVV040E
50 - 1" 1/2	40	45	153.3	18	111	4	2	QHVV050E
63 - 2"	50	57	168	18	125.5	4	2	QHVV063E
75 - 2" 1/2	65	71	187.5	18	145.5	4	3	QHVV075E
90 - 3"	80	84	203	18	160	8	3	QHVV090E
110 - 4"	100	102	223	18	181	8	3	QHVV110E
125	125	132	250	18	210	8	3	QHVV125E
140	125	132	250	18	210	8	3	QHVV140E
160 - 6"	150	152	288.5	22	241.5	8	4	QHVV160E
200	200	192	340	22	295	8	4	QHVV200E
225 - 8"	200	215	340	22	295	8	4	QHVV225E
250	250	238	395	22	350	12	4	QHVV250E
280	250	265	395	22	350	12	4	QHVV280E
315	300	290	462	22	400	12	4	QHVV315E
355	350	337	500	22	460	16	2	QHVV355E
400	400	384	555	25	515	16	2	QHVV400E



ODV

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

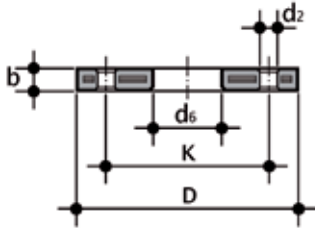
	d	DN	*PMA (bar)	a	b	d ₁	E	f	Sp	U	** (Nm)	g	Code
I	20	15	10	65	M12 x 70	28	96	14	11	4	<10	60	ODV020
I	25	20	10	75	M12 x 70	34	107	14	12	4	<10	85	ODV025
I	32	25	10	85	M12 x 70	42	117	14	14	4	10	120	ODV032
I	40	32	10	100	M16 x 85	51	143	18	15	4	13	190	ODV040
I	50	40	10	110	M16 x 85	62	153	18	16	4	13	225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

I: IIP 122

*PMA maximum admissible working pressure

** nominal tightening torque

*** resale product



ODB

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

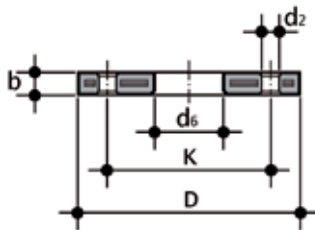
d	DN	*PMA (bar)	b	d ₂	d ₆	D	k	M	n	** (Nm)	g	Code
20	15	16	12	14	28	95	65	M12	4	10	232	ODB020
25	20	16	14	14	34	105	75	M12	4	15	288	ODB025
32	25	16	14	14	42	115	85	M12	4	15	544	ODB032
40	32	16	16	18	51	140	100	M16	4	20	836	ODB040
50	40	16	16	18	62	150	110	M16	4	25	902	ODB050
63	50	16	19	18	78	165	125	M16	4	35	1074	ODB063
75	65	16	19	18	92	188	145	M16	4	40	1368	ODB075
90	80	16	21	18	109	204	160	M16	8	40	1516	ODB090
***125	100	16	22	18	135	224	180	M16	8	50	1938	ODB125
****180	150	16	27	22	191	285	240	M20	8	60	3298	ODB180
200	200	16	28	22	235	340	295	M20	8	75	5318	ODB200

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

**nominal tightening torque

*** for use with stubs QPV110, QRV110

**** for use with stubs QPV160, QRV160



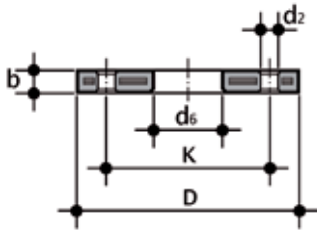
ODB-SW

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

d	DN	*PMA (bar)	b	d ₂	d ₆	D	k	M	n	** (Nm)	g	Code
140	125	16	24	18	166	252	210	M16	8	60	2965	SWODBD140DN125
225	200	16	27	22	247	340	295	M20	8	75	5060	SWODBD225DN200
280	250	16	30	22	309	395	350	M20	12	95	7112	SWODBD280DN250
315	300	16	34	22	349	445	400	M20	12	100	9468	SWODBD315DN300

*PMA maximum admissible working pressure

**nominal tightening torque

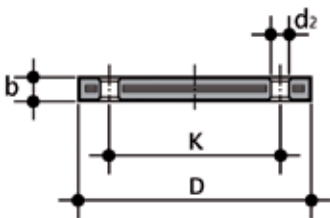


OAB

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

d mm	DN inches	*PMA (bar)	b	d ₂ mm	d ₂ inches	d ₆	D	k mm	k inches	n	** (Nm)	g	Code
20	1/2"	16	12	16	5/8"	28	95	60.4	2" 3/8	4	15	200	OAB012
25	3/4"	16	12	16	5/8"	34	102	69.7	2" 3/4	4	15	240	OAB034
32	1"	16	16	16	5/8"	42	114	79.2	3" 1/8	4	15	490	OAB100
40	1" 1/4"	16	16	16	5/8"	51	130	88.7	3" 1/2	4	25	670	OAB114
50	1" 1/2"	16	18	16	5/8"	62	133	98.3	3" 7/8	4	35	640	OAB112
63	2"	16	18	20	3/4"	78	162	120.0	4" 3/4	4	35	1000	OAB200
75	2" 1/2"	16	18	20	3/4"	92	184	139.7	5" 1/2	4	40	1310	OAB212
90	3"	16	18	20	3/4"	111	194	152.4	6"	4	40	1250	OAB300
110	4"	16	18	20	3/4"	133	229	190.6	7" 1/2	8	40	1660	OAB400

*PMA maximum admissible working pressure
 **nominal tightening torque

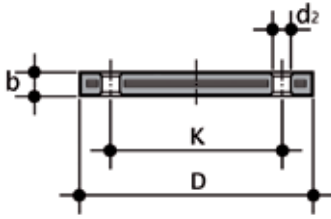


ODBC

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

d	DN	*PMA (bar)	b	d ₂	D	k	n	M	** (Nm)	g	Code
20	15	16	12	14	95	65	4	M12	15	290	ODBC020
25	20	16	12	14	105	75	4	M12	15	390	ODBC025
32	25	16	16	14	115	85	4	M12	15	520	ODBC032
40	32	16	16	18	140	100	4	M16	25	800	ODBC040
50	40	16	18	18	150	110	4	M16	35	940	ODBC050
63	50	16	18	18	165	125	4	M16	35	1150	ODBC063
75	65	16	18	18	185	145	4	M16	40	1640	ODBC075
90	80	16	18	18	200	160	8	M16	40	1960	ODBC090
110/125	100	16	18	18	220	180	8	M16	40	2720	ODBC110
140	125	16	24	18	250	210	8	M16	50	3920	ODBC140
160/180	150	16	24	22	285	240	8	M20	60	5060	ODBC160
200/225	200	16	24	22	340	295	8	M20	70	7800	ODBC200
250/280	250	10	30	22	400	350	12	M20	100	15400	ODBC250
315	300	10	34	22	463	400	12	M20	110	26000	ODBC315

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

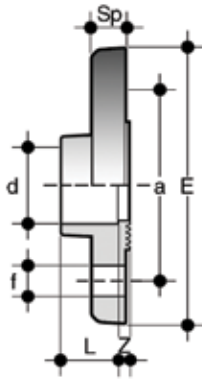


OABC

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

inches	DN	*PMA (bar)	b	d ₂ mm	d ₂ inches	D	k mm	k inches	n	** (Nm)	g	Code
1/2"	15	16	12	16	5/8"	95	60.45	2" 3/8	4	15	200	OABC012
3/4"	20	16	12	16	5/8"	102	69.85	2" 3/4	4	15	240	OABC034
1"	25	16	16	16	5/8"	114	79.25	3" 1/8	4	15	370	OABC100
1" 1/4	32	16	16	16	5/8"	130	88.90	3" 1/2	4	25	530	OABC114
1" 1/2	40	16	18	16	5/8"	133	98.55	3" 7/8	4	35	560	OABC112
2"	50	16	18	20	3/4"	162	120.65	4" 3/4	4	35	810	OABC200
2" 1/2	65	16	18	20	3/4"	184	139.70	5" 1/2	4	40	1070	OABC212
3"	80	16	18	20	3/4"	194	152.40	6"	4	40	1030	OABC300
4"	100	16	18	20	3/4"	229	190.50	7" 1/2	8	40	1570	OABC400

* PMA: maximum admissible working pressure
 **nominal tightening torque



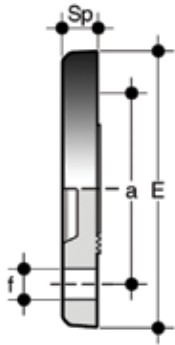
FDV

Fixed flange with solvent weld socket according to EN/ISO/DIN with serrated raised face for flat gaskets (for gasket sizes, see QHV).

Drilling: PN 10/16 up to DN 150; PN 10 from DN 200

d	DN	*PMA (bar)	a	E	f	L	Sp	Z	** (Nm)	g	Code
25	20	10	75	105	14	19	12	4.5	<10	105	FDV025
32	25	10	85	115	14	22	14	4.5	10	150	FDV032
40	32	10	100	140	18	26	15	4.5	13	230	FDV040
50	40	10	110	150	18	31	16	4.5	13	280	FDV050
63	50	10	125	163	18	38	18	4.5	15	390	FDV063
75	65	10	145	185	18	44	19	5	17	525	FDV075
90	80	10	160	200	18	51	20	7	18	710	FDV090
110	100	10	180	220	18	61	22	8	20	955	FDV110

* PMA: maximum admissible working pressure
 **nominal tightening torque



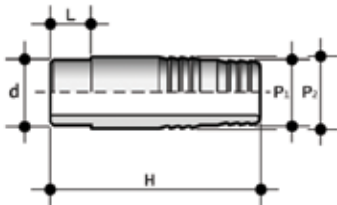
FCV

Blind flange drilled according to EN/ISO/DIN with serrated raised face for flat gaskets (for gasket sizes, see QHV).

Drilling: PN 10/16 up to DN 175; PN 10 from DN 200

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

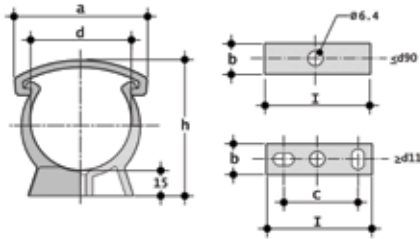
* PMA: maximum admissible working pressure
 **nominal tightening torque
 ***resale product



AIV

Hose adaptor with solvent weld spigot

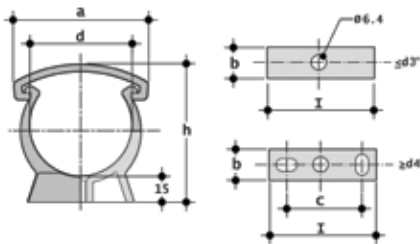
d x P ₂ x P ₁	PN	H	L	g	Code
12 x 14 x 12	16	56	12	6	AIV012014012
16 x 18 x 16	16	60	14	12	AIV016018016
20 x 22 x 20	16	67	16	17	AIV020022020
25 x 27 x 25	16	81	19	26	AIV025027025
32 x 32 x 30	16	97	22	40	AIV032032030
40 x 42 x 40	16	104	26	78	AIV040042040
50 x 52 x 50	16	111	31	113	AIV050052050
63 x 64 x 60	16	123	38	170	AIV063064060



ZIKM
Pipe clip for ISO-DIN pipes in PP*

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

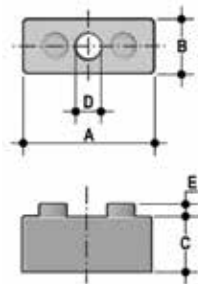
*for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)
**resale product



ZAKM
Pipe clip for ASTM pipes in PP*

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

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



DSM

Distance plates in PP for ZIKM pipe clips*

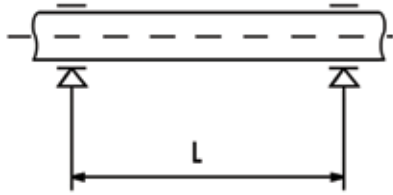
d	A	B	C	D	E	Pack	Master	Code
**32	33	16	14	8	4	20	120	DSM032
**40	41	17	17	8	4	10	80	DSM040
**50	51	18	17	8	4	10	50	DSM050
**63	64	19	22.5	8	4	10	40	DSM063
**75	76	20	34.5	8	4	10	40	DSM075

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

**resale product

INSTALLATION

POSITIONING OF ZIKM AND ZAKM PIPE CLIPS



The installation of thermoplastic pipe systems requires the use of support clips to prevent flexing and the resulting mechanical stresses. The distance between the clips depends on the pipe material, SDR, surface temperature and the density of the conveyed fluid. Before installing the clips, check the distances reported in the table below, as provided for by guidelines DVS 2210-01 for water pipes.

Supporting PVC-U pipes conveying liquids of density 1 g/cm³ (water and other fluids of equal intensity).

For pipes of SDR 13.6 / S 6.3 / PN 16:

d mm	distance L in mm at different wall temperatures				
	≤ 20° C	30° C	40° C	50° C	60° C
16	950	900	850	750	600
20	1100	1050	1000	900	700

For pipes of SDR 21 / S 10 / PN 10:

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

For different SDR values, multiply the data in the table by the following factors:
 1.08 for SDR 13.6 / S6.3 / PN16 size range d25 - d400
 1.15 for SDR 11 / S5 / PN20 entire size range

Supporting PVC-U pipes conveying liquids of density other than 1 g/cm³.

If the liquid being conveyed has a density other than 1 g/cm³, the distance L in the table must be multiplied by the factors in the table below.

Fluid density in g/cm ³	Support factor
1.25	0.96
1.50	0.92
< 0.01	1.42 for SDR 21 / S10 / PN10 1.30 for SDR 13.6 / S6.3 / PN16 1.20 for SDR 11 / S5 / PN20



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LERACCV Code





ISO-BSP FITTINGS
PVC-U

Adaptor fittings

FITTINGS ISO-BSP

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

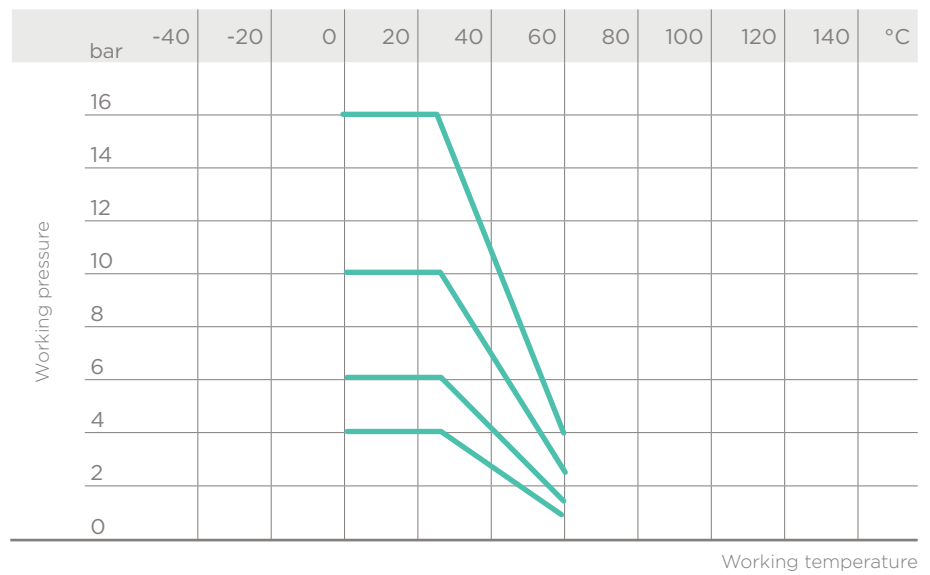
ADAPTOR FITTINGS

Technical specifications	
Size range	d 16 ÷ 125 (mm); R 3/8" ÷ 4"
Nominal pressure	PN 16 with water at 20 °C
Temperature range	0 °C ÷ 60 °C
Coupling standards	Solvent welding: ISO 727, UNI EN ISO 15493, DIN 8063, EN ISO 1452, ASTM D 2467, JIS K 6743, BS 4346-1. Can be coupled to pipes according to ISO 161-1, EN ISO 1452, EN ISO 15493, DIN 8062, ASTM D 1785, JIS K6741, BS 3505-3506 Thread: UNI ISO 228-1, DIN 2999, BS 21, ISO 7, ASTM D 2464, JIS B 0203
Reference standards	Construction criteria: EN ISO 1452, EN ISO 15493 Test methods and requirements: EN ISO 1452, EN ISO 15493 Installation criteria: DVS 2204, DVS 2221, UNI 11242
Valve material	PVC-U
Seal material	EPDM, FPM

TECHNICAL DATA

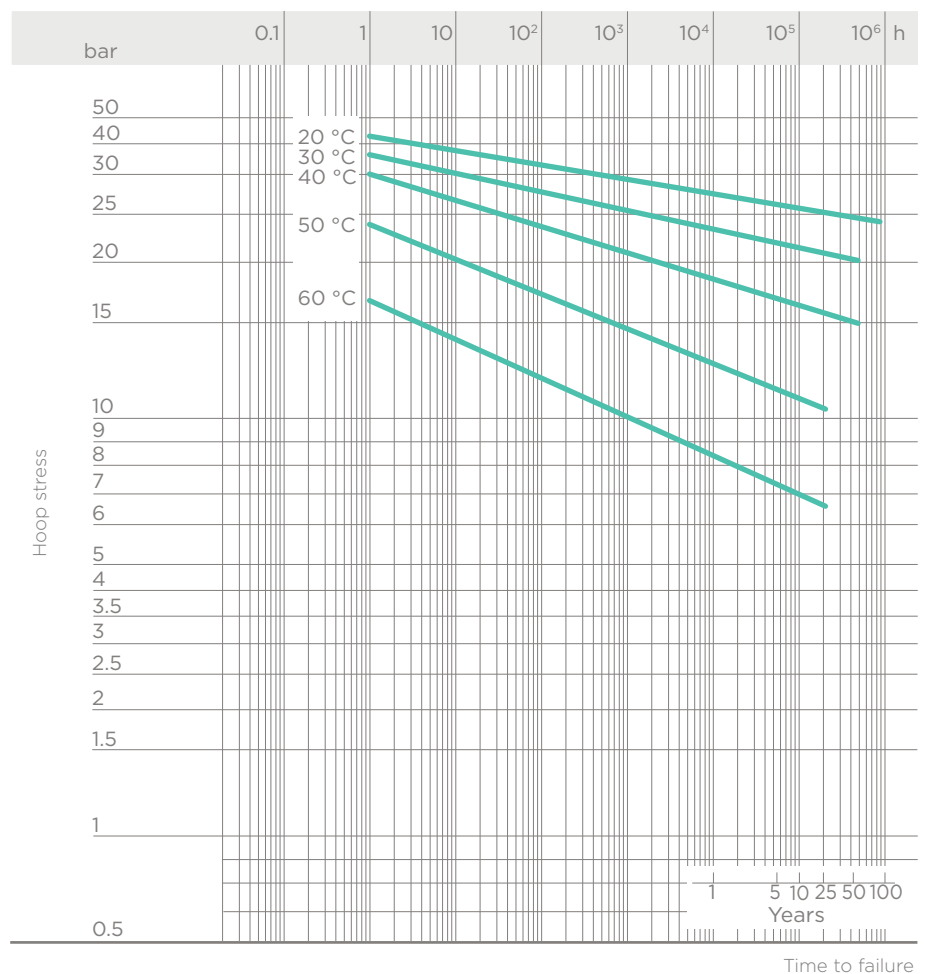
PRESSURE VARIATION ACCORDING TO TEMPERATURE

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



REGRESSION CURVE FOR PVC-U FITTINGS

Regression coefficients according to EN ISO 1452 and EN ISO 15493 for MRS (minimum required strength) values = 25 N/mm² (MPa) (classification PVC-U 250)



SAFETY FACTORS

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

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

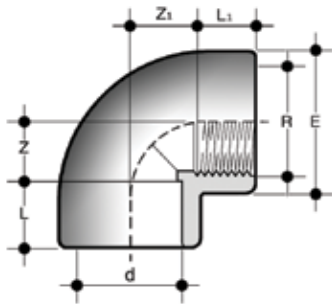
- solvent weld fittings
from d 12 to d 225 PN 16
from d 250 to d 315 PN 10
- adaptor fittings
from d 16 to d 110 PN 16
- threaded fittings
from R 3/8" to R 4" up to PN 16.

Some of the fittings in the series are sold as PN16 with a reduced safety factor compared to that specified by ISO standards.

Pe (bar)	1h	1000h	50 years	T
10	6.72	5.12	4	
16	4.2	3.2	2.5	
16*	3.3	2.5	2	

*with reduced safety factor

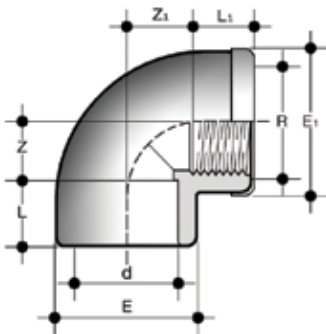
DIMENSIONS



GIFV

90° elbow with solvent weld socket and BSP threaded female end R

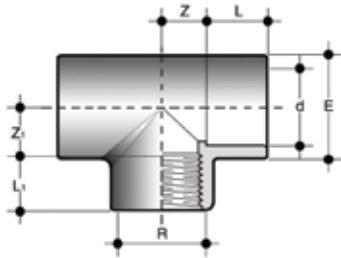
d x R	PN	E	L	L ₁	Z	Z ₁	g	Code
16 x 3/8"	16	23.5	14	11.4	10	13	16	GIFV016038
20 x 1/2"	16	28.5	16	15	12	13	24	GIFV020012
25 x 3/4"	16	35	19	16.3	14	17	40	GIFV025034
32 x 1"	16	43	22	19.1	18	20.5	72	GIFV032100
40 x 1" 1/4	16	54	26	21.4	22.5	27	125	GIFV040114
50 x 1" 1/2	16	61	31	21.4	27	37	175	GIFV050112
63 x 2"	16	76	38	25.7	33	46	320	GIFV063200
75 x 2" 1/2	16	91	44	30.2	40.5	55	465	GIFV075212
90 x 3"	16	108	51	33.3	48	65.5	795	GIFV090300
110 x 4"	16	131	61	39.3	60	80	1130	GIFV110400



GIMV

90° elbow with reinforced solvent weld socket d and BSP threaded female end R with stainless steel reinforcing ring

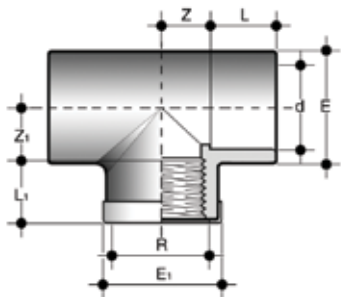
d x R	PN	E	E ₁	L	L ₁	Z	Z ₁	g	Code
16 x 3/8"	16	23.5	24.5	14	11.4	10	13	20	GIMV016038
20 x 1/2"	16	28.5	29.5	16	15	12	13	30	GIMV020012
25 x 3/4"	16	35	36	19	16.3	14	17	48	GIMV025034
32 x 1"	16	43	44	22	19.1	18	20.5	85	GIMV032100
40 x 1" 1/4	16	54	55	26	21.4	22.5	27	130	GIMV040114
50 x 1" 1/2	16	61	62	31	21.4	27	37	185	GIMV050112
63 x 2"	16	76	77	38	25.7	33	46	345	GIMV063200



TIFV

90° Tee with solvent weld socket d and BSP threaded female end R

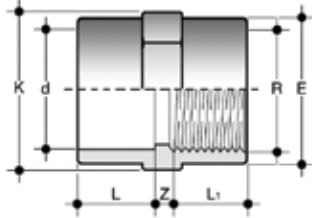
d x R	PN	E	L	L ₁	Z	Z ₁	g	Code
16 x 3/8"	16	23.5	14	11.4	9	11	20	TIFV016038
20 x 1/2"	16	28.5	16	15	12	13	32	TIFV020012
25 x 3/4"	16	35	19	16.3	15	17	52	TIFV025034
32 x 1/2"	16	41	22	15	17.5	18	92	TIFV032012
32 x 1"	16	43	22	19.1	18	21	71	TIFV032100
40 x 1" 1/4	16	50	26	21.4	21.5	27	110	TIFV040114
50 x 1/2"	16	61	31	15	27	27.5	160	TIFV050012
50 x 1" 1/2"	16	61	31	21.4	27	37	195	TIFV050112
63 x 1/2"	16	76	38	15	33.5	37.5	305	TIFV063012
63 x 2"	16	76	38	25.7	33.5	46	405	TIFV063200
75 x 2" 1/2	16	91	44	30.2	41	54.5	605	TIFV075212
90 x 3"	16	109	51	33.3	48.5	66	1070	TIFV090300
110 x 4"	16	133	61	39.3	61.5	83	1690	TIFV110400



TIMV

90° Tee with reinforced end: solvent weld socket d and BSP threaded female branch R with stainless steel reinforcing ring

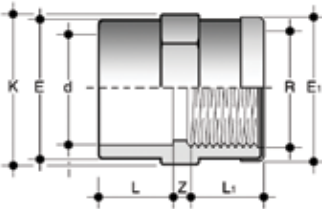
d x R	PN	E	E ₁	L	L ₁	Z	Z ₁	g	Code
16 x 3/8"	16	23.5	24.5	14	11.4	9	11	24	TIMV016038
20 x 1/2"	16	28.5	29	16	15	12	13	38	TIMV020012
25 x 3/4"	16	35	36	19	16.3	15	17	60	TIMV025034
32 x 1"	16	43	44	22	19.1	18	21	105	TIMV032100
40 x 1" 1/4	16	50	51	26	21.4	21.5	27	125	TIMV040114
50 x 1" 1/2	16	61	62	31	21.4	27	37	210	TIMV050112
63 x 2"	16	76	77	38	25.7	33.5	46	415	TIMV063200



MIFV

Double socket with solvent weld socket d and BSP threaded female end R

d x R	PN	E	K	L	L ₁	Z	g	Code
16 x 3/8"	16	23.5	24	14	11.4	5.5	12	MIFV016038
20 x 1/2"	16	28.5	29	16	15	4	20	MIFV020012
25 x 3/4"	16	35	35	19	16.3	5	30	MIFV025034
32 x 1"	16	43	43	22	19.1	6	48	MIFV032100
40 x 1" 1/4	16	50	50	26	21.4	5	56	MIFV040114
50 x 1" 1/2	16	61	61	31	21.4	8	102	MIFV050112
63 x 2"	16	76	76	38	25.7	7.5	181	MIFV063200

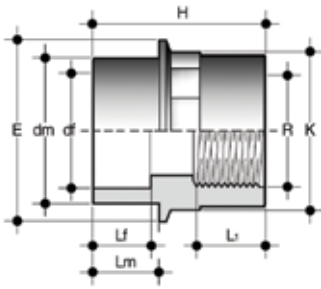


MIMV

Double socket with solvent weld socket d and BSP threaded female end R with stainless steel reinforcing ring

d x R	PN	E	E ₁	K	L	L ₁	Z	g	Code
16 x 3/8"	16	23.5	24.5	24	14	11.4	5.5	14	MIMV016038
20 x 1/2"	16	28.5	29.5	29	16	15	4	23	MIMV020012
25 x 3/4"	16	35	36	35	19	16.3	5	34	MIMV025034
32 x 1"	16	43	44	43	22	19.1	6	53	MIMV032100
40 x 1" 1/4	16	50	51	50	26	21.4	5	62	MIMV040114
50 x 1" 1/2	16	61	62	61	31	21.4	8	110	MIMV050112
63 x 2"	16	76	77	76	38	25.7	7.5	190	MIMV063200

Fig. A

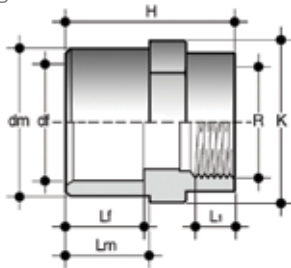


DIFV

Double adaptor with solvent weld socket df, solvent weld spigot dm and BSP threaded female end R (fig. A)

dm x df x R	PN	E	H	K	L ₁	L _f	L _m	g	Code
20 x 16 x 3/8"	16	28	36	24	11.4	14	16	11	DIFV020016038
25 x 20 x 1/2"	16	34	42	29	15	16	19	17	DIFV025020012
32 x 25 x 3/4"	16	40	49	35	16.3	19	22	26	DIFV032025034
40 x 32 x 1"	16	52	57	44	19.1	22	26	49	DIFV040032100
50 x 40 x 1" 1/4	16	59	67	54	21.4	26	31	66	DIFV050040114
63 x 50 x 1" 1/2	16	70	77	64	21.4	31	38	129	DIFV063050112

Fig. B

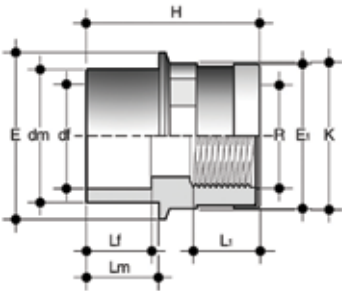


DIFV

Double adaptor with solvent weld socket df, solvent weld spigot dm and BSP threaded female end R (fig. B)

dm x df x R	PN	E	H	K	L ₁	L _f	L _m	g	Code
20 x 16 x 1/2"	16	-	39	30	15	14	16	18	DIFV020016012
25 x 20 x 3/4"	16	-	45	36	16.3	16	19	28	DIFV025020034
32 x 25 x 1"	16	-	51	46	19.1	19	22	49	DIFV032025100
40 x 32 x 1" 1/4	16	-	62	54	21.4	22	26	74	DIFV040032114
50 x 40 x 1" 1/2	16	-	72	65	21.4	26	31	127	DIFV050040112
63 x 50 x 2"	16	-	86	80	25.7	31	38	190	DIFV063050200
75 x 63 x 2"	16	-	76	76	25.7	38	44	180	DIFV075063200
75 x 63 x 2" 1/2	16	-	99	95	30.2	38	44	280	DIFV075063212
90 x 75 x 2" 1/2	16	-	84	95	30.2	44	51	300	DIFV090075212
90 x 75 x 3"	16	-	114	110	33.3	44	51	470	DIFV090075300
110 x 90 x 3"	16	-	100	110	33.3	51	61	450	DIFV110090300
110 x 90 x 4"	16	-	134	130	39.3	51	61	670	DIFV110090400
125 x 110 x 4"	16	-	111	131	39.3	61	69	550	DIFV125110400

Fig. A

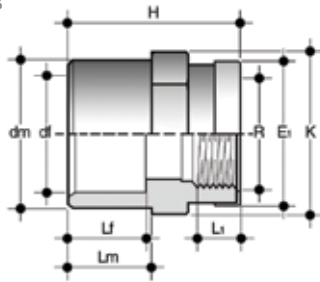


DIMV

Double adaptor with solvent weld socket df , solvent weld spigot dm and BSP threaded female end R with stainless steel reinforcing ring (fig. A)

$dm \times df \times R$	PN	E	E_1	H	K	L_1	L_f	Lm	g	Code
20 x 16 x 3/8"	16	28	24.5	37	24	11.4	14	16	13	DIMV020016038
25 x 20 x 1/2"	16	34	29.5	43	29	15	16	19	20	DIMV025020012
32 x 25 x 3/4"	16	40	36	50	35	16.3	19	22	32	DIMV032025034
40 x 32 x 1"	16	52	44	58	44	19.1	22	26	58	DIMV040032100
50 x 40 x 1" 1/4	16	59	55	68	54	21.4	26	31	77	DIMV050040114
63 x 50 x 1" 1/2	16	70	62	78	64	21.4	31	38	143	DIMV063050112

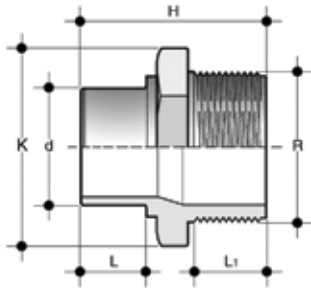
Fig. B



DIMV

Double adaptor with solvent weld socket df , solvent weld spigot dm and BSP threaded female end R with stainless steel reinforcing ring (fig. B)

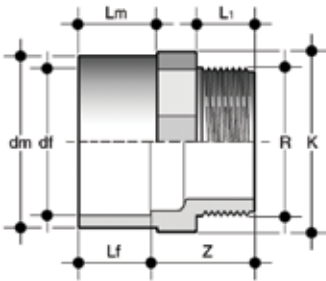
$dm \times df \times R$	PN	E	E_1	H	K	L_1	L_f	Lm	g	Code
20 x 16 x 1/2"	16	-	29.5	40	30	15	14	16	21	DIMV020016012
25 x 20 x 3/4"	16	-	36	46	36	16.3	16	19	34	DIMV025020034
32 x 25 x 1"	16	-	44	52	46	19.1	19	22	58	DIMV032025100
40 x 32 x 1" 1/4	16	-	55	63	54	21.4	22	26	85	DIMV040032114
50 x 40 x 1" 1/2	16	-	62	73	65	21.4	26	31	141	DIMV050040112
63 x 50 x 2"	16	-	77	87	80	25.7	31	38	212	DIMV063050200
75 x 63 x 2"	16	-	77	77	76	25.7	38	44	202	DIMV075063200



NRIV

Barrel nipple with reduced solvent weld spigot d and BSP threaded male end R

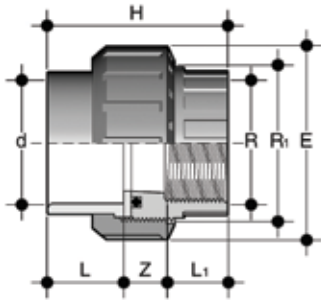
d x R	PN	E	H	K	L ₁	g	Code
25 x 1"	16	53	60	46	26	43	NRIV025100
32 x 1" 1/4	16	63	66	55	28	70	NRIV032114



KIFV

Double adaptor with solvent weld socket df, solvent weld spigot dm and BSP threaded male end R

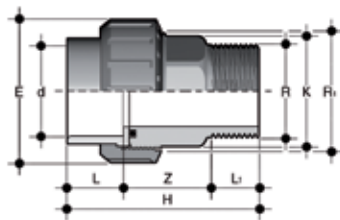
dm x df x R	PN	K	L ₁	Lm	Lf	Z	g	Code
16 x 12 x 3/8"	16	18	11.4	14	12.5	21	4	KIFV016012038
20 x 16 x 3/8"	16	22	11.4	16	14	20	6	KIFV020016038
20 x 16 x 1/2"	16	22	15	16	14	23.5	10	KIFV020016012
25 x 20 x 1/2"	16	28	15	19	16	25	12	KIFV025020012
25 x 20 x 3/4"	16	28	16.3	19	16	25.5	17	KIFV025020034
32 x 25 x 1/2"	16	34	15	22	19	25.5	15	KIFV032025012
32 x 25 x 3/4"	16	34	16.3	22	19	27	21	KIFV032025034
32 x 25 x 1"	16	34	19.1	22	19	29.5	27	KIFV032025100
40 x 32 x 3/4"	16	42	15	26	22	27.5	28	KIFV040032034
40 x 32 x 1"	16	42	19.1	26	22	30.5	34	KIFV040032100
40 x 32 x 1" 1/4	16	42	21.4	26	22	32.5	40	KIFV040032114
50 x 40 x 1"	16	52	19.1	31	26	31.5	50	KIFV050040100
50 x 40 x 1" 1/4	16	52	21.4	31	26	35	60	KIFV050040114
50 x 40 x 1" 1/2	16	52	21.4	31	26	35	70	KIFV050040112
63 x 50 x 1" 1/4	16	65	21.4	38	31	37	95	KIFV063050114
63 x 50 x 1" 1/2	16	65	21.4	38	31	35	105	KIFV063050112
63 x 50 x 2"	16	65	25.7	38	31	39.5	150	KIFV063050200
75 x 63 x 1" 1/2	16	75	21.4	44	38	38	125	KIFV075063112
75 x 63 x 2"	16	75	25.7	44	38	41	145	KIFV075063200
75 x 63 x 2" 1/2	16	75	30.2	44	38	46.5	155	KIFV075063212
90 x 75 x 2"	16	95	25.7	51	44	49	275	KIFV090075200
90 x 75 x 2" 1/2	16	95	30.2	51	44	54	280	KIFV090075212
90 x 75 x 3"	16	95	33.5	51	44	56	300	KIFV090075300
110 x 90 x 2" 1/2	16	110	30.2	61	51	57	370	KIFV110090212
110 x 90 x 3"	16	110	33.5	61	51	62	390	KIFV110090300
110 x 90 x 4"	16	128	39.2	61	51	77	420	KIFV110090400
125 x 110 x 3"	16	128	33.5	69	61	59	450	KIFV125110300
125 x 110 x 4"	16	128	39.2	69	61	65	500	KIFV125110400



BIFV

Union with solvent weld socket d and BSP threaded female end R with O-Ring in EPDM

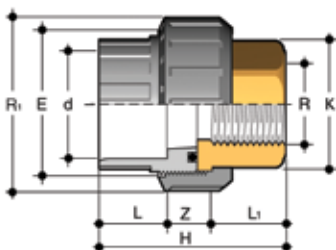
d x R	R ₁	PN	E	H	L	L ₁	Z	g	Code
16 x 3/8"	3/4"	16	33	41	14	11.4	15.6	22	BIFV016038E
20 x 1/2"	1"	16	41	45	16	15	14	35	BIFV020012E
25 x 3/4"	1" 1/4	16	50	51	19	16.3	15.7	62	BIFV025034E
32 x 1"	1" 1/2	16	58	57	22	19.1	15.9	85	BIFV032100E
40 x 1" 1/4	2"	16	72	67	26	21.4	19.6	145	BIFV040114E
50 x 1" 1/2	2" 1/4	16	79	72	31	21.4	19.6	180	BIFV050112E
63 x 2"	2" 3/4	16	98	88	38	25.7	24	315	BIFV063200E
75 x 2" 1/2	3" 1/2	10	120	116	44	30.2	34.8	630	BIFV075212E
90 x 3"	4"	10	135	125	51	33.3	40.7	810	BIFV090300E
110 x 4"	5"	10	163	145	61	39.3	44.7	1350	BIFV110400E



BIRV

Union with fixed BSP threaded male end and O-Ring in EPDM

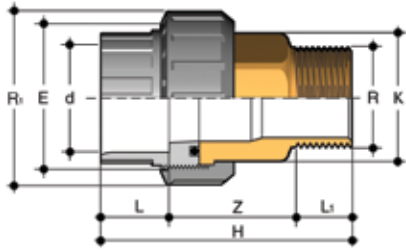
d x R	R ₁	PN	E	H	K	L	L ₁	Z	g	Code
50 x 1" 1/2	2" 1/4	16	79	98	53	31	21.4	45.6	200	BIRV050112E
50 x 2"	2" 1/4	16	79	102	53	31	25.7	45.3	220	BIRV050200E
63 x 2"	2" 3/4	16	98	116	67	38	25.7	52.3	380	BIRV063200E



BIFOV

Adaptor union in PVC-U/brass with solvent weld socket d and BSP threaded brass female end R with O-Ring in EPDM

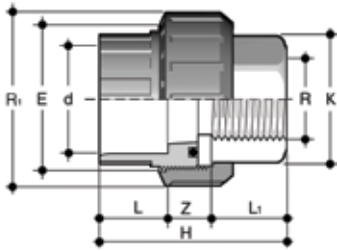
d x R	R ₁	PN	E	H	K	L	L ₁	Z	g	Code
16 x 3/8"	3/4"	16	33	45.5	20	14	13.5	18	53	BIFOV016038E
20 x 1/2"	1"	16	41	48.5	25	16	16.5	16	86	BIFOV020012E
25 x 3/4"	1" 1/4	16	50	54.5	32	19	18.5	17	161	BIFOV025034E
32 x 1"	1" 1/2	16	58	59.5	38	22	19.5	18	181	BIFOV032100E
40 x 1" 1/4	2"	16	72	68.5	48	26	21.5	21	373	BIFOV040114E
50 x 1" 1/2	2" 1/4	16	79	84.5	55	31	23	24.5	460	BIFOV050112E
63 x 2"	2" 3/4	16	98	94.5	69	38	27	29.5	824	BIFOV063200E



BIROV

Adaptor union in PVC-U/brass with solvent weld socket d and BSP threaded brass male end R with O-Ring in EPDM

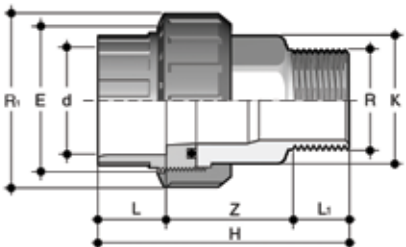
d x R	R ₁	PN	E	H	K	L	L ₁	Z	g	Code
16 x 3/8"	3/4"	16	33	58.5	20	14	10.5	34	79	BIROV016038E
20 x 1/2"	1"	16	41	65	25	16	13.5	35.5	131	BIROV020012E
25 x 3/4"	1" 1/4	16	50	72.5	32	19	15	38.5	229	BIROV025034E
32 x 1"	1" 1/2	16	58	80	38	22	17.5	40.5	288	BIROV032100E
40 x 1" 1/4	2"	16	72	91	48	26	19.5	45.5	550	BIROV040114E
50 x 1" 1/2	2" 1/4	16	79	101	55	31	19.5	50.5	681	BIROV050112E
63 x 2"	2" 3/4	16	98	122.5	69	38	24	60.5	1183	BIROV063200E



BIFXV

Adaptor union in PVC-U/stainless steel with solvent weld socket d and BSP threaded A316L stainless steel female end R with O-Ring in EPDM or FPM

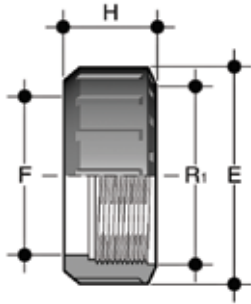
d x R	R ₁	PN	E	H	K	L	L ₁	Z	g	EPDM code	FPM code
16 x 3/8"	3/4"	16	33	45.5	20	14	13.5	18	50	BIFXV016038E	BIFXV016038F
20 x 1/2"	1"	16	41	48.5	25	16	16.5	16	81	BIFXV020012E	BIFXV020012F
25 x 3/4"	1" 1/4	16	50	54.5	32	19	18.5	17	152	BIFXV025034E	BIFXV025034F
32 x 1"	1" 1/2	16	58	59.5	38	22	19.5	18	170	BIFXV032100E	BIFXV032100F
40 x 1" 1/4	2"	16	72	68.5	48	26	21.5	21	353	BIFXV040114E	BIFXV040114F
50 x 1" 1/2	2" 1/4	16	79	84.5	55	31	23	30.5	435	BIFXV050112E	BIFXV050112F
63 x 2"	2" 3/4	16	98	94.5	69	38	27	29.5	779	BIFXV063200E	BIFXV063200F



BIRXV

Adaptor union in PVC-U/stainless steel with solvent weld socket d and BSP threaded A316L stainless steel male end R with O-Ring in EPDM or FPM

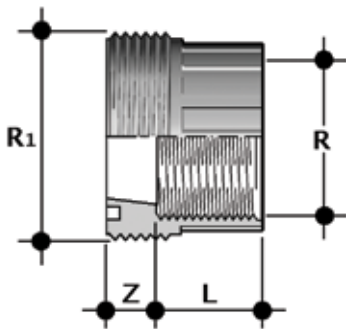
d x R	R ₁	PN	E	H	K	L	L ₁	Z	g	EPDM code	FPM code
16 x 3/8"	3/4"	16	33	58.5	20	14	10.5	34	74	BIRXV016038E	BIRXV016038F
20 x 1/2"	1"	16	41	65	25	16	13.5	35.5	123	BIRXV020012E	BIRXV020012F
25 x 3/4"	1" 1/4	16	50	72.5	32	19	15	38.5	215	BIRXV025034E	BIRXV025034F
32 x 1"	1" 1/2	16	58	80	38	22	17.5	40.5	269	BIRXV032100E	BIRXV032100F
40 x 1" 1/4	2"	16	72	91	48	26	19.5	45.5	516	BIRXV040114E	BIRXV040114F
50 x 1" 1/2	2" 1/4	16	79	101	55	31	19.5	50.5	639	BIRXV050112E	BIRXV050112F
63 x 2"	2" 3/4	16	98	122.5	69	38	24	60.5	1111	BIRXV063200E	BIRXV063200F



EFV

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

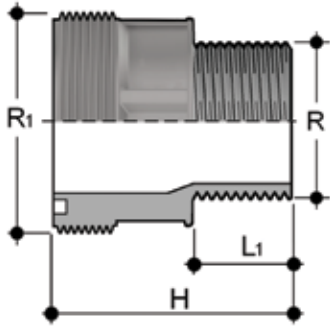
R ₁	d BIV	PN	E	F	H	g	Code
3/8"	-	16	23	13	20	5	EFV038
1/2"	-	16	27	17	24	8	EFV012
3/4"	16	16	33	22	21	9	EFV034
1"	20	16	41	28	22	13	EFV100
1" 1/4	25	16	50	36	25	22	EFV114
1" 1/2	32	16	58	42	27	30	EFV112
2"	40	16	72	53	30	50	EFV200
2" 1/4	50	16	79	59	34	68	EFV214
2" 1/2	-	16	90	68	36	95	EFV212
2" 3/4	63	16	98	74	38	120	EFV234
3" 1/2	75	10	120	93	45	198	EFV312
4"	90	10	135	106	52	278	EFV400
5"	110	10	163	129	60	448	EFV500



F/BFV

Union bush with BSP threaded female end

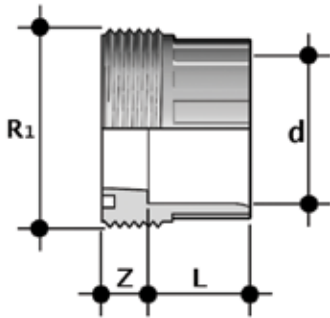
R	R ₁	PN	L ₁	Z	g	Code
3/8"	3/4"	16	11.4	12.6	8	FBFV038
1/2"	1"	16	15	11	13	FBFV012
3/4"	1" 1/4	16	16.3	12.7	22	FBFV034
1"	1" 1/2	16	19.1	12.9	32	FBFV100
1" 1/4	2"	16	21.4	16.6	57	FBFV114
1" 1/2	2" 1/4	16	21.4	16.5	64	FBFV112
2"	2" 3/4	16	25.7	20.5	122	FBFV200



F/BRV

Union bush with BSP threaded male end

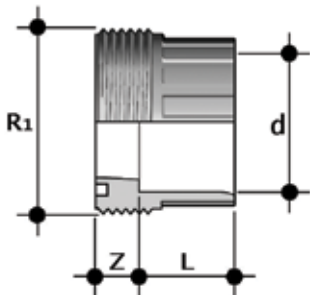
R	R ₁	PN	L ₁	g	Code
1" 1/2	2" 1/4	16	22.5	100	FBRV112214
2"	2" 1/4	16	27	120	FBRV200214
2"	2" 3/4	16	27	175	FBRV200234



F/BIV

Union bush for solvent welding, metric series

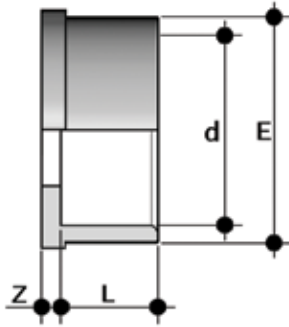
d	R ₁	PN	L	Z	g	Code
16	3/4"	16	14	10	9	FBIV016
20	1"	16	16	10	13	FBIV020
25	1" 1/4	16	19	10	25	FBIV025
32	1" 1/2	16	22	10	31	FBIV032
40	2"	16	26	12	58	FBIV040
50	2" 1/4	16	31	14	63	FBIV050
63	2" 3/4	16	38	19	119	FBIV063
75	3" 1/2	10	44	18	230	FBIV075
90	4"	10	51	18	290	FBIV090
110	5"	10	61	18	500	FBIV110



F/BLV

Union bush for solvent welding, series BS

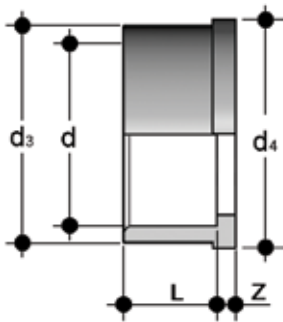
d	R ₁	PN	L	Z	g	Code
1/2"	1"	16	16	10	12.5	FBLV012
3/4"	1" 1/4	16	19	10	22.5	FBLV034
1"	1" 1/2	16	22	10	30	FBLV100
1" 1/4	2"	16	26	12	52	FBLV114
1" 1/2	2" 1/2	16	31	14	69.5	FBLV112
2"	2" 3/4	16	38	19	133.5	FBLV200



Q/BIV

Union end for solvent welding, metric series

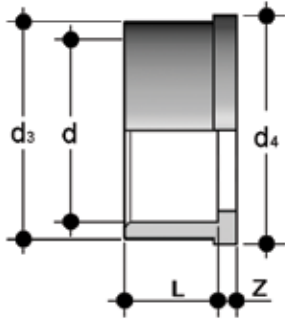
d	PN	E	L	Z	g	Code
16	16	22	14	3	5	QBIV016
20	16	28	16	3	8	QBIV020
25	16	36	19	3	15	QBIV025
32	16	42	22	3	24	QBIV032
40	16	53	26	3	37	QBIV040
50	16	59	31	3	42	QBIV050
63	16	74	38	3	77	QBIV063
75	10	93	44	3	150	QBIV075
90	10	105	51	5	192	QBIV090
110	10	129	61	5	335	QBIV110



Q/BLV

Union end for solvent welding, BS series

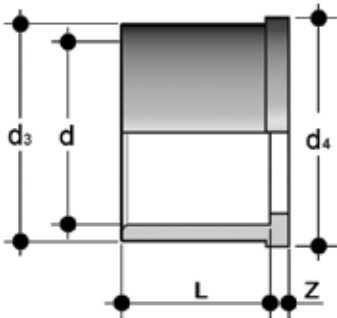
d	PN	d ₃	d ₄	L	Z	g	Code
1/2"	16	27.5	30.1	16	3	8	QBLV012
3/4"	16	36	38.8	19	3	13	QBLV034
1"	16	41.5	44.7	22	3	19	QBLV100
1" 1/4	16	53	56.5	26	3	32	QBLV114
1" 1/2	16	59	62.6	31	3	46	QBLV112
2"	16	74	78.4	38	3	86	QBLV200



Q/BAV

Union end for solvent welding, ASTM series

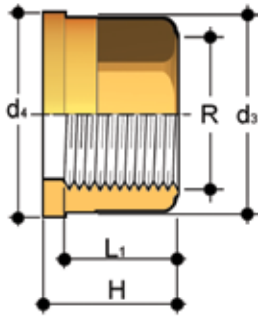
d	PN	d_3	d_4	L	Z	g	Code
1/2"	16	27.5	30.1	22.7	3.5	15.5	QBAV012
3/4"	16	36	38.8	25.9	3.7	22.5	QBAV034
1"	16	41.5	44.7	29.2	3	32.5	QBAV100
1" 1/4	16	53	56.5	32	5	57	QBAV114
1" 1/2	16	59	62.6	35	5	78	QBAV112
2"	16	74	78.4	38.5	5.5	130	QBAV200



Q/BJV

Union end for solvent welding, JIS series

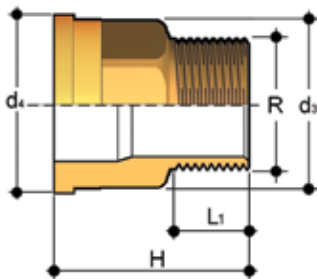
d	PN	d_3	d_4	L	Z	g	Code
1/2"	16	27.5	30.1	30	3	16	QBJV012
3/4"	16	36	38.8	35	3.5	21	QBJV034
1"	16	41.5	44.7	40	3	40	QBJV100
1" 1/4	16	53	56.5	44	3	68	QBJV114
1" 1/2	16	59	62.6	55	4.5	105	QBJV112
2"	16	74	78.4	62.9	5.5	175	QBJV200



Q/BFO

Union end in brass with female BSP thread

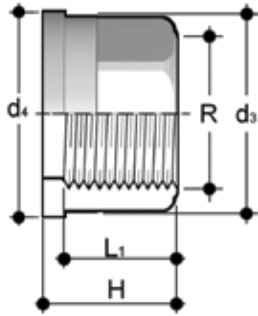
R	d ₃	d ₄	H	L ₁	g	Code
3/8"	22	24	21.5	13.5	38	QBFO038
1/2"	27.5	30.1	22.5	16.5	60	QBFO012
3/4"	36	38.8	25.5	18.5	116	QBFO034
1"	41.5	44.7	27.5	19.5	144	QBFO100
1" 1/4	53	56.5	30.5	21.5	260	QBFO114
1" 1/2	59	62.6	33.5	23	325	QBFO112
2"	74	78.4	38.5	27	578	QBFO200



Q/BRO

Union end in brass with male BSP thread

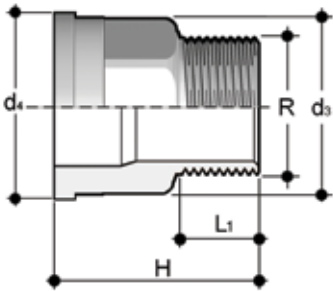
R	d ₃	d ₄	H	L ₁	g	Code
3/8"	22	24	34.5	10.5	64	QBRO038
1/2"	27.5	30.1	39	13.5	105	QBRO012
3/4"	36	38.8	43.5	15	184	QBRO034
1"	41.5	44.7	48	17.5	251	QBRO100
1" 1/4	53	56.5	53	19.5	437	QBRO114
1" 1/2	59	62.6	56	19.5	545	QBRO112
2"	74	78.4	65.5	24	937	QBRO200



Q/BFX

Union end in A316L stainless steel with female BSP thread

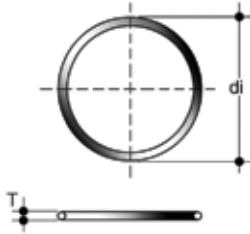
R	d ₃	d ₄	H	L ₁	g	Code
3/8"	22	24	21.5	13.5	34	QBFX038
1/2"	27.5	30.1	22.5	16.5	54	QBFX012
3/4"	36	38.8	25.5	18.5	104	QBFX034
1"	41.5	44.7	27.5	19.5	130	QBFX100
1" 1/4	53	56.5	30.5	21.5	234	QBFX114
1" 1/2	59	62.6	33.5	23	293	QBFX112
2"	74	78.4	38.5	27	520	QBFX200



Q/BRX

Union end in A316L stainless steel with male BSP thread

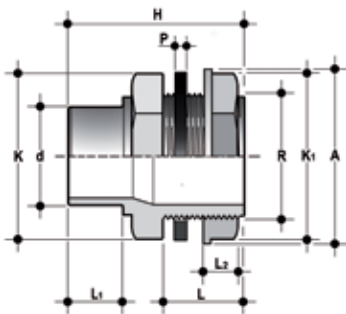
R	d ₃	d ₄	H	L ₁	g	Code
3/8"	22	24	34.5	10.5	58	QBRX038
1/2"	27.5	30.1	39	13.5	95	QBRX012
3/4"	36	38.8	43.5	15	166	QBRX034
1"	41.5	44.7	48	17.5	226	QBRX100
1" 1/4	53	56.5	53	19.5	393	QBRX114
1" 1/2	59	62.6	56	19.5	491	QBRX112
2"	74	78.4	65.5	24	843	QBRX200



O-Ring

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

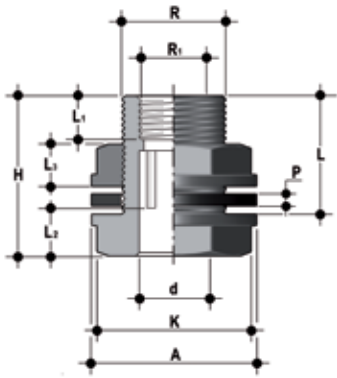
Union d	C	di	T	EPDM code	FPM code
16	3062	15.54	2.62	OR3062E	OR3062F
20	4081	20.22	3.53	OR4081E	OR4081F
25	4112	28.17	3.53	OR4112E	OR4112F
32	4131	32.93	3.53	OR4131E	OR4131F
40	6162	40.65	5.34	OR6162E	OR6162F
50	6187	47	5.34	OR6187E	OR6187F
63	6237	59.69	5.34	OR6237E	OR6237F
75	6300	75.57	5.34	OR6300E	OR6300F
90	6362	91.45	5.34	OR6362E	OR6362F
110	6450	113.67	5.34	OR6450E	OR6450F



LIV

Tank connector with solvent weld spigot d, threaded joint R with tightening nut and flat gasket in EPDM

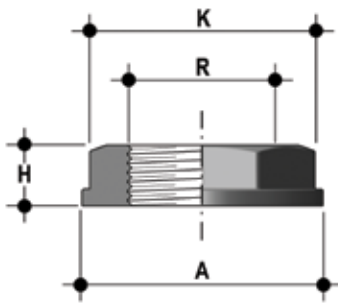
d x R	PN	A	H	K	K ₁	L	L ₁	L ₂	P	g	Code
25 x 1"	16	58	60	46	46	26	19	16	2	58	LIV025100
32 x 1" 1/4	16	62	66	55	50	28	22	18	2	90	LIV032114



LIFV

Tank connector with solvent weld socket d, male threaded joint R and female threaded joint R₁ with tightening nut and flat gasket in EPDM or FPM

d x R x R ₁	PN	A	H	K	L	L ₁	L ₂	L ₃	P	g	EPDM code	FPM code
16 x 3/4" x 1/2"	16	44	60.5	33	47	15	14	13.5	3	53	LIFV016034012E	LIFV016034012F
20 x 1" x 3/4"	16	58	65	46	49	16.3	16	16	3	108	LIFV020100034E	LIFV020100034F
25 x 1" 1/4 x 1"	16	62	70	50	52	19.1	19	18	3	142	LIFV025114100E	LIFV025114100F
32 x 1" 1/2 x 1"	16	76	73	60	54	19.1	22	19	3	192	LIFV032112100E	LIFV032112100F
40 x 2" x 1" 1/2	16	92	81	79	60	21.4	26	20.8	3	337	LIFV040200112E	LIFV040200112F



JFV

Back nut with BSP thread (used on LIV and LIFV)

R	PN	A	H	K	g	Code
1/2"	16	38	13	28	11	JFV012
3/4"	16	44	13.5	33	14	JFV034
1"	16	58	16	46	31	JFV100
1" 1/4	16	62	18	50	32	JFV114
1" 1/2	16	76	19	60	52	JFV112
2"	16	92	21	79	84	JFV200



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