ISO-UNI FITTINGS

SOLVENT WELD FITTINGS, METRIC SERIES

ISO-UNI **FITTINGS**

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

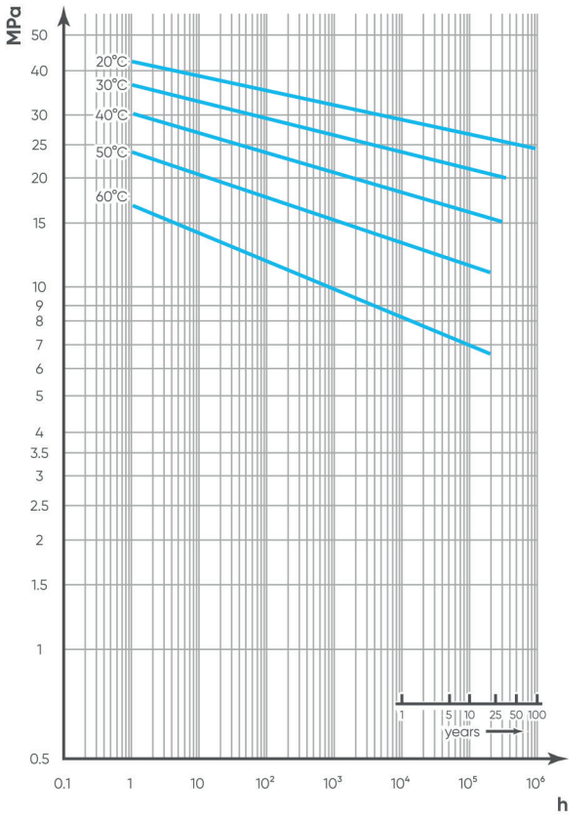
SOLVENT WELD FITTINGS, METRIC SERIES

Technical specifications	
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, , 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
	Flanging system: EN 1092-1
Reference standards	**Construction criteria:** EN ISO 1452, EN 1092-1
	Test methods and requirements: EN ISO 1452, EN ISO 15493
	Installation criteria: DVS 2204, DVS 2221, UNI 11242
Fitting material	PVC-U dark grey RAL 7011
Seal material	EPDM, FKM

TECHNICAL DATA

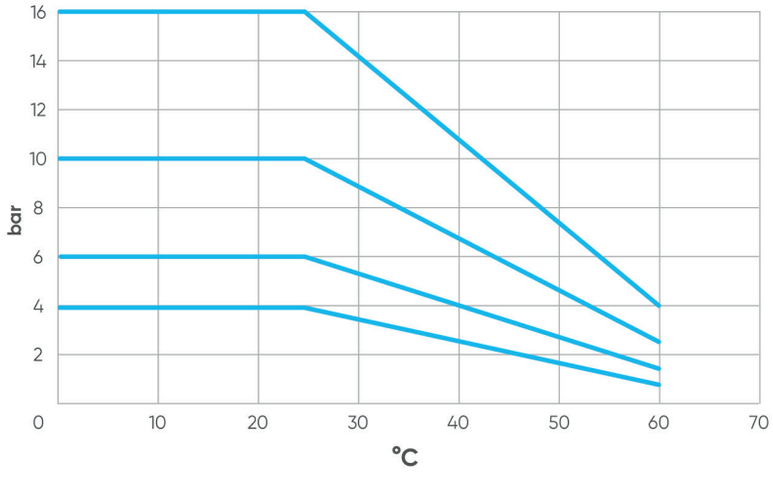
REGRESSION CURVE FOR PVC-U

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).

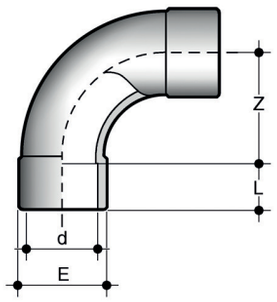


PRESSURE VARIATION ACCORDING TO TEMPERATURE

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.



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
	160	16	189	86	207	5020	SIV160

I: IIP 122 **H:** KIWA K5034 ND 10

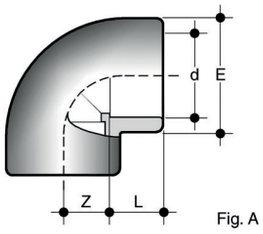


Fig. A

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	31,5	19	13,5	23	GIV025
IFH	32	16	39	22	17,5	38	GIV032
IFH	40	16	48	26	21,5	67	GIV040
IFH	50	16	58,5	31	26	107	GIV050
IFH	63	16	73	37,5	32,5	200	GIV063
IF	75	16	87	44	39	315	GIV075
IF	90	16	104	51,5	46,5	533	GIV090
IF	110	16	126	61,5	56,5	930	GIV110
IF	125	16	144	69	64	1340	GIV125
IF	140	16	161	77	77	1885	GIV140
IF	160	16	183	87	82	2820	GIV160
	*180	10	215	96	94	5200	GIV180
I	200	16	222	107	102	4125	GIV200
I	225	16	249	119,5	114,5	5670	GIV225

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

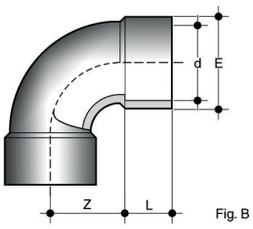
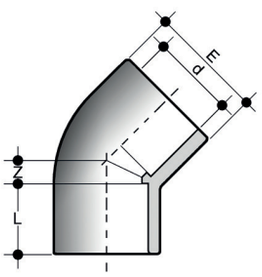


Fig. B

GIV

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

d	PN	E	L	Z	g	Code
250	10	287	131	188	12480	GIV250
280	10	325	147	210	17000	GIV280
315	10	359	164	236	23370	GIV315

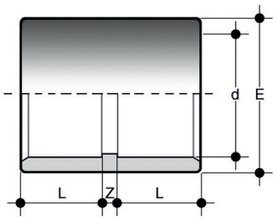


HIV

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	58,5	31	12	95	HIV050
IFH	63	16	73	37,5	14,5	170	HIV063
IF	75	16	90	44	17	320	HIV075
IF	90	16	107	51	21,5	550	HIV090
I	110	16	127	62	25	800	HIV110
IF	125	16	147	69	31	1315	HIV125
IF	140	16	163	76	34	1660	HIV140
IF	160	16	192	86	38	3060	HIV160
	*180	10	208	97	38	3500	HIV180
I	200	10	230	108	48	4500	HIV200
I	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

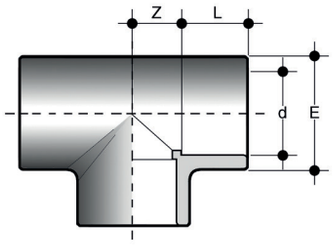


MIV

Solvent weld double socket

	d	PN	E	L	Z	g	Code
	12	16	17	12	3	3	MIV012
IF	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	58,5	31	3,5	70	MIV050
HIF	63	16	73	38	3,5	120	MIV063
IF	75	16	90	44	3	250	MIV075
IF	90	16	108	51	4	415	MIV090
IF	110	16	127	61,5	7	570	MIV110
IF	125	16	148	69	7	960	MIV125
IF	140	16	164	76	8	1240	MIV140
IF	160	16	186	86	9	1680	MIV160
	*180	10	209	96	8	2500	MIV180
I	200	16	232	106	11	3050	MIV200
I	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
* resale product

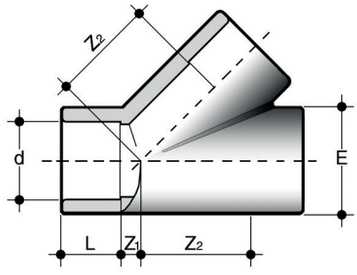


TIV

90° Tee with solvent weld sockets

	d	PN	E	L	Z	g	Code
	12	16	17	12	8	6	TIV012
FH	16	16	22	14	9	15	TIV016
IFH	20	16	27	16	11	25	TIV020
IFH	25	16	33	19	14	40	TIV025
IFH	32	16	40	22	18	65	TIV032
IFH	40	16	49	26	22	114	TIV040
IFH	50	16	58,5	31	26	146	TIV050
IFH	63	16	73	37,5	32,5	275	TIV063
IF	75	16	88	44	39	470	TIV075
IF	90	16	105	52	46	780	TIV090
IF	110	16	127	61,5	57	1335	TIV110
IF	125	16	143,5	69	64	1890	TIV125
IF	140	16	161	77	72	2750	TIV140
IF	160	16	183	87	82	3870	TIV160
	*180	10	215	96	94	6180	TIV180
I	200	10	222,5	107	102	6000	TIV200
I	225	10	250,5	119,5	114,5	8450	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
*Resale product

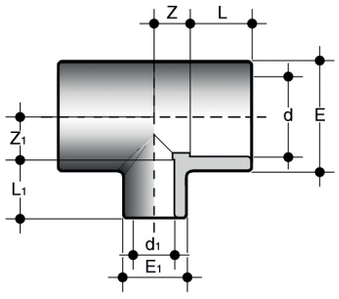


YIV

45° Tee with solvent weld sockets

d	PN	E	L	Z	Z2	g	Code
20	16	27	16	7	30	39	YIV020
25	16	33	19	7	35	62	YIV025
32	16	41	22	9	44	110	YIV032
40	16	51	26	11	55	190	YIV040
50	16	63	31	12	68,5	335	YIV050
63	16	78	38	15	85	570	YIV063
75	10	87,5	44	17,5	94,5	750	YIV075
90	10	104,5	51,5	20,5	112,5	1165	YIV090
110	10	127,5	62	25	138	2175	YIV110
*160	10	189	86	35	200	6900	YIV160

*resale product

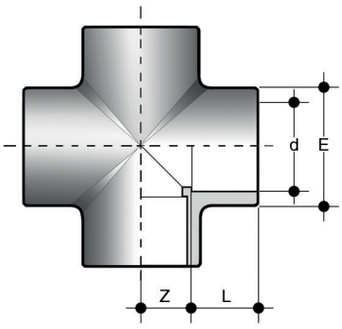


TRIV

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	82	81	3700	TRIV160110
*250 x 110	10	285	134	129	63	61	128	8300	TRIV250110
*250 x 160	10	285	193	129	87	86	129	9900	TRIV250160
*250 x 200	10	285	228	129	106	133	132	12000	TRIV250200
*280 x 160	10	320	193	146	88	84	153	12500	TRIV280160
*280 x 225	10	320	258	146	117,5	117	150,5	14900	TRIV280225
*315 x 160	8	355	193	164	86	83	161	15000	TRIV315160
*315 x 200	8	355	228	164	106	102	179	17500	TRIV315200
*315 x 250	8	355	285	164	131	127	160	19200	TRIV315250

*resale product

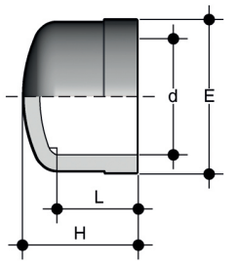


XIV

90° cross with solvent weld sockets

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

H: KIWA K5034 ND 10

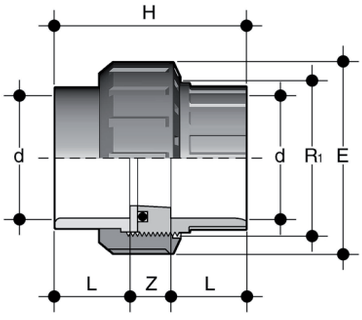


CIV

End cap with solvent weld socket

	d	PN	E	H	L	g	Code
	12	16	17	15	12	3	CIV012
IF	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
	125	16	147	99	69	900	CIV125
	140	16	164	108	76	1100	CIV140
	160	16	182	123	86	1080	CIV160
	225	10	260	163	119	3000	CIV225

I: IIP 122 **F**: AFNOR NF04

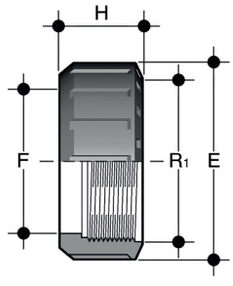


BIV

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

	d	R	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

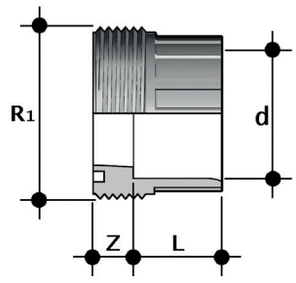
I: IIP 122



EFV

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

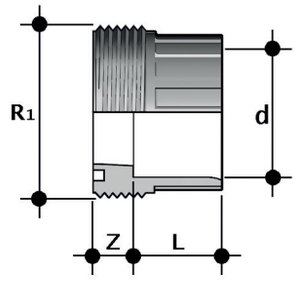
R	d BIV	PN	E	F	H	g	Code
1/2"	-	16	27	17	24	8	EFV012
3/4"	16	16	33	22	21	9	EFV034
1"	20	16	41	28	22	13	EFV100
1" 1/4	25	16	50	36	25	22	EFV114
1" 1/2	32	16	58	42	27	30	EFV112
2"	40	16	72	53	30	50	EFV200
2" 1/4	50	16	79	59	34	68	EFV214
2" 1/2	-	16	90	68	36	95	EFV212
2" 3/4	63	16	98	74	38	120	EFV234
3" 1/2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



F/BIV

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

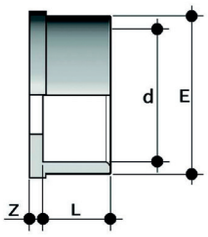
d	R_1	PN	L	Z	g	Code
16	3/4"	16	14	10	9	FBIV016
20	1"	16	16	10	13	FBIV020
25	1"1/4	16	19	10	25	FBIV025
32	1"1/2	16	22	10	31	FBIV032
40	2"	16	26	12	58	FBIV040
50	2"1/4	16	31	14	63	FBIV050
63	2"3/4	16	38	19	119	FBIV063
75	3"1/2	10	44	18	230	FBIV075
90	4"	10	51	18	290	FBIV090
110	5"	10	61	18	500	FBIV110



F/BLV

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

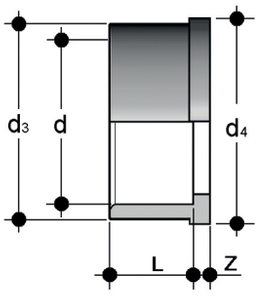
d	R_1	PN	L	Z	g	Code
1/2"	1"	16	16	10	12,5	FBLV012
3/4"	1"1/4	16	19	10	22,5	FBLV034
1"	1"1/2	16	22	10	30	FBLV100
1"1/4	2"	16	26	12	52	FBLV114
1"1/2	2"1/2	16	31	14	69,5	FBLV112
2"	2"3/4	16	38	19	133,5	FBLV200



Q/BIV

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

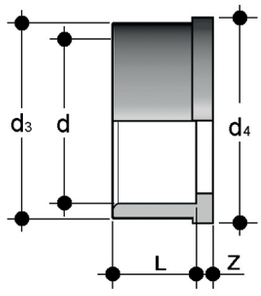
d	PN	E	L	Z	g	Code
16	16	22	14	3	5	QBIV016
20	16	28	16	3	8	QBIV020
25	16	36	19	3	15	QBIV025
32	16	42	22	3	24	QBIV032
40	16	53	26	3	37	QBIV040
50	16	59	31	3	42	QBIV050
63	16	74	38	3	77	QBIV063
75	10	93	44	3	150	QBIV075
90	10	105	51	5	192	QBIV090
110	10	129	61	5	335	QBIV110



Q/BLV

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

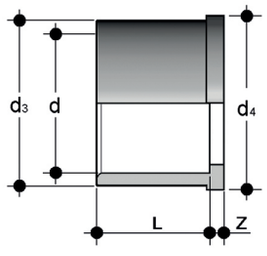
d	PN	d_3	d_4	L	Z	g	Code
1/2"	16	27,5	30,1	16	3	8	QBLV012
3/4"	16	36	38,8	19	3	13	QBLV034
1"	16	41,5	44,7	22	3	19	QBLV100
1"1/4	16	53	56,5	26	3	32	QBLV114
1"1/2	16	59	62,6	31	3	46	QBLV112
2"	16	74	78,4	38	3	86	QBLV200



Q/BAV

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

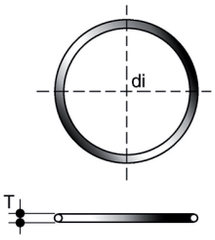
d	PN	d_3	d_4	L	Z	g	Code
1/2"	16	27,5	30,1	22,7	3,5	15,5	QBAV012
3/4"	16	36	38,8	25,9	3,7	22,5	QBAV034
1"	16	41,5	44,7	29,2	3	32,5	QBAV100
1"1/4	16	53	56,5	32	5	57	QBAV114
1"1/2	16	59	62,6	35	5	78	QBAV112
2"	16	74	78,4	38,5	5,5	130	QBAV200



Q/BJV

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

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

all resale products

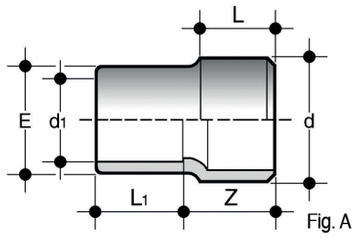


Fig. A

RIV

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

	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

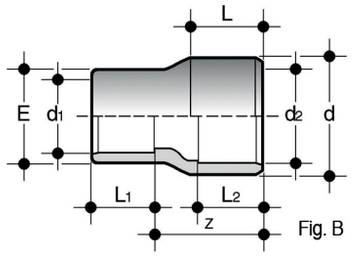


Fig. B

RIV

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

	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 x63	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

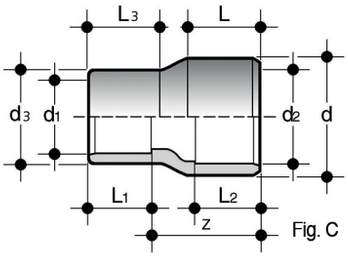


Fig. C

RIV

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

	d 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
F	90 x 75 x 75 x 63	16	-	51	38	44	44	74	260	RIV090075075063
F	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

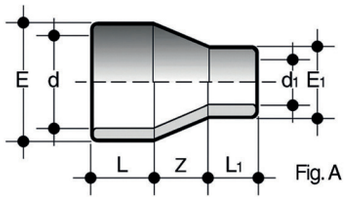


Fig. A

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

*resale product

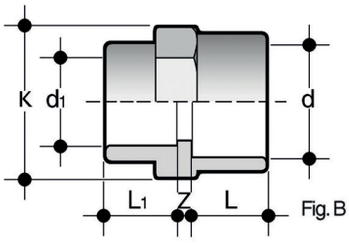


Fig. B

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

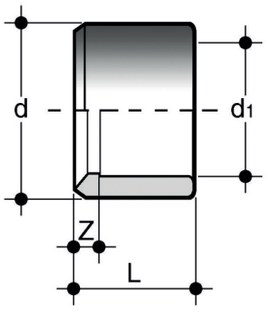


Fig. A

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	300	DIV125110
I	140 x 110	16	76	17	645	DIV140110
IF	140 x 125	16	76	9,5	350	DIV140125
IF	160 x 140	16	86	10	565	DIV160140
	225 x 200	16	119	13	1380	DIV225200
	250 x 200	10	132	25	3500	DIV250200
	250 x 225	10	132	12	2100	DIV250225
	*280 x 250	10	147	15	2500	DIV280250

I: IIP 122 **F**: AFNOR NF04
*resale product

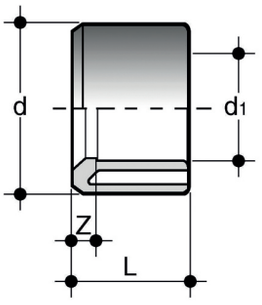


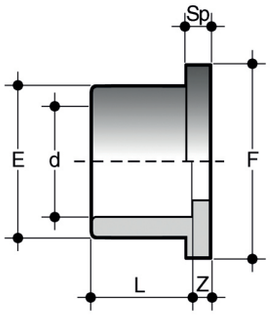
Fig. B

DIV

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

	d x d1	PN	L	Z	g	Code
I	40 x 20	16	26	9	25	DIV040020
I	40 x 25	16	26	7	24	DIV040025
I	50 x 32	16	31	8,5	35	DIV050032
I	63 x 32	16	38	16	73	DIV063032
I	63 x 40	16	38	11,5	75	DIV063040
I	75 x 50	16	44	13	120	DIV075050
I	90 x 50	16	51	20	200	DIV090050
I	90 x 63	16	51	13	210	DIV090063
I	110 x 63	16	61	23	340	DIV110063
I	110 x 75	16	61	17	360	DIV110075
I	140 x 90	16	76	25	730	DIV140090
I	160 x 90	16	86	35	1040	DIV160090
I	160 x 110	16	86	24	945	DIV160110
	*180 x 160	10	96	10	710	DIV180160
	*200 x 180	10	106	10	870	DIV200180
I	225 x 160	16	119	33	1840	DIV225160
	250 x 160	10	132	45	3100	DIV250160
	*250 x 180	10	132	36	3100	DIV250180
	*280 x 200	10	146	40	4100	DIV280200
	280 x 225	10	147	27	4300	DIV280225
	315 x 200	10	165	58	8650	DIV315200
	315 x 225	10	165	45	8100	DIV315225
	315 x 250	10	165	33	5330	DIV315250
	315 x 280	10	165	18	4500	DIV315280

I: IIP 122
*resale product

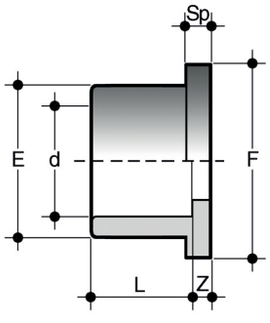


QPV

Flat face stub PN 10/16 with solvent weld socket

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

I: IIP 122

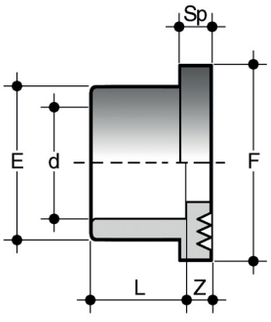


QPV special flat for butterfly valves

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

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

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

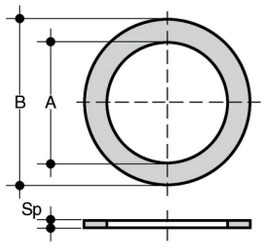


QRV

Serrated face stub 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	42	QRV040
I	50	40	16	61	73	31	8	4	63	QRV050
I	63	50	16	76	90	38	9	4	105	QRV063
I	75	65	16	90	106	44	10	3	169	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
I	200	200	16	230	254	106	18	5,5	1840	QRV200
I	225	200	16	245	273	119	25	5,5	1750	QRV225
	250	250	10	270	306	131	20	8,5	2140	QRV250
	280	250	10	307	327	147	32	14,5	3650	QRV280
	315	300	10	346	377	165	32	13	4950	QRV315
	*355	350	5	386	413	184	29	8	5400	QRV355
	*400	400	5	430	483	206	26	12	6500	QRV400
	*450	450	4	486	538	-	19	8	5200	QRV450
	*500	500	4	532	574	-	18	-	3000	QRV500

I: IIP 122
* Resale products

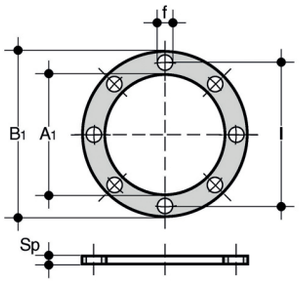


QHV/X

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

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

all resale products

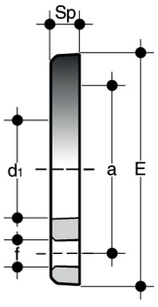


QHV/Y

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

d	DN	A_1	B_1	F	I	U	Sp	Code
20 - 1/2"	15	17	95	14	65	4	2	QHVY020E
25 - 3/4"	20	22	107	14	76,3	4	2	QHVY025E
32 - 1"	25	28	117	14	86,5	4	2	QHVY032E
40 - 1" 1/4	32	36	142,5	18	101	4	2	QHVY040E
50 - 1" 1/2	40	45	153,3	18	111	4	2	QHVY050E
63 - 2"	50	57	168	18	125,5	4	2	QHVY063E
75 - 2" 1/2	65	71	187,5	18	145,5	4	3	QHVY075E
90 - 3"	80	84	203	18	160	8	3	QHVY090E
110 - 4"	100	102	223	18	181	8	3	QHVY110E
125	125	132	250	18	210	8	3	QHVY125EDN125
140	125	132	250	18	210	8	3	QHVY140E
160 - 6"	150	152	288.5	22	241,5	8	4	QHVY160E
200	200	192	340	22	295	8	4	QHVY200E
225 - 8"	200	215	340	22	295	8	4	QHVY225E
250	250	238	395	22	350	8	4	QHVY250E
280	250	265	395	22	350	12	4	QHVY280E
315	300	290	462	22	400	12	4	QHVY315E
355	350	337	500	22	460	16	2	QHVY355E
400	400	384	555	22	515	16	2	QHVY400E

all resale products

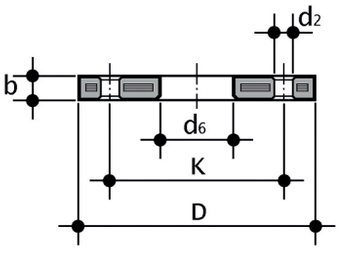


ODV

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

	d	DN	*MPA (bar)	a	b	d_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
I	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	5	460	M20 x 180	386	505	22	32	16	70	3600	ODV355
	400	***400	5	515	M20 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

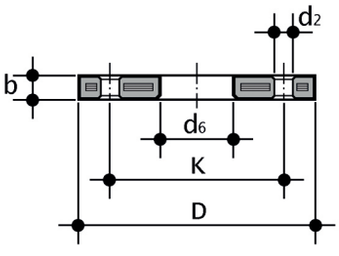


ODB

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	d_2	k	M	**Nm	n	g	Code
20	15	16	12	28	14	95	M12	10	4	232	ODB020
25	20	16	14	34	14	105	M12	15	4	288	ODB025
32	25	16	14	42	14	115	M12	15	4	544	ODB032
40	32	16	16	51	18	140	M16	20	4	836	ODB040
50	40	16	16	62	18	150	M16	25	4	902	ODB050
63	50	16	19	78	18	165	M16	35	4	1074	ODB063
75	65	16	19	92	18	188	M16	40	4	1368	ODB075
90	80	16	21	109	18	204	M16	40	8	1516	ODB090
***125	100	16	22	135	18	224	M16	50	8	1938	ODB125
****180	150	16	27	191	22	285	M20	60	8	3298	ODB180
200	200	16	28	235	22	240	M20	75	8	5318	ODB200

Maximum pressure values to EN/ISO/DIN. Pay attention to maximum admissible pressure values when selecting gaskets
*PMA: maximum admissible pressure
**nominal tightening torque
*** for use with stubs QPV110, QRV110
**** for use with stubs QPV160, QRV160

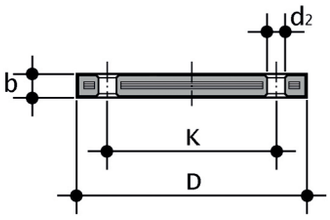


ODB-SW

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	d_2	d_6	k	M	**Nm	n	g	Code
140	125	16	24	252	18	166	210	M16	60	8	2965	SWODBD140DN125
225	200	16	27	340	22	248	295	M20	75	8	5060	SWODBD225DN200
280	250	16	30	395	22	309	350	M20	95	12	7112	SWODBD280DN250
315	300	16	34	445	22	349	400	M20	100	12	9468	SWODBD315DN300

*PMA maximum admissible working pressure
**nominal tightening torque

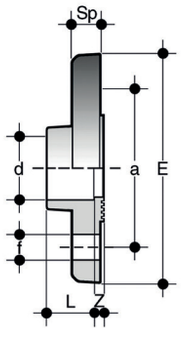


ODBC

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

d	DN	*PMA (bar)	b	d_2	D	k	M	n	**Nm	g	Code
20	15	10	16	14	95	65	M12	4	15	290	ODBC020
25	20	10	12	18	105	75	M12	4	15	380	ODBC025
32	25	10	18	14	115	85	M12	4	15	600	ODBC032
40	32	10	17	18	140	100	M16	4	25	830	ODBC040
50	40	10	18	18	150	110	M16	4	35	1105	ODBC050
63	50	10	18	18	165	125	M16	4	35	1308	ODBC063
75	65	10	18	18	185	145	M16	4	40	1580	ODBC075
90	80	10	20	18	200	160	M16	8	40	2244	ODBC090
110	100	10	20	18	220	180	M16	8	45	2829	ODBC110
125	100	10	20	18	220	180	M16	8	45	2873	ODBC125
140	125	10	24	18	250	210	M16	8	50	3920	ODBC140
160	150	10	22	22	285	240	M20	8	60	7181	ODBC160
180	150	10	24	22	285	240	M20	8	60	7130	ODBC180
200	200	10	24	22	340	295	M20	8	70	10580	ODBC200
225	200	10	24	22	340	295	M20	8	70	10664	ODBC225
250	250	10	30	22	395	350	M20	12	100	14040	ODBC250
280	250	10	30	22	395	350	M20	12	100	14040	ODBC280
315	300	10	34	22	445	400	M20	12	110	26480	ODBC315

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

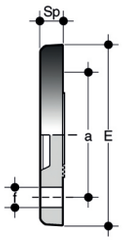


FDV

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

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

*MPA: maximum admissible pressure
**nominal tightening torque

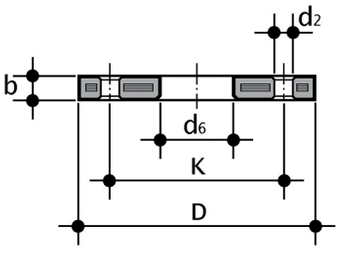


FCV

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

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

Surface with roughness deriving from the phonographic trace of the turning
*MPA: maximum admissible pressure
**nominal tightening torque
***resale product

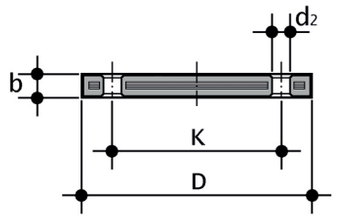


OAB

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

Inch	DN	*MPA (bar)	b	D	d2(mm)	d_2(inch)	d_6	k(mm)	k(inch)	**Nm	n	g	Code
1/2"	15	16	12	95	16	5/8"	28	60,4	2"3/8	15	4	200	OAB012
3/4"	20	16	12	102	16	5/8"	34	69,7	2"3/4	15	4	240	OAB034
1"	25	16	16	114	16	5/8"	42	79,2	3"1/8	15	4	490	OAB100
1"1/4	32	16	16	130	16	5/8"	51	88,7	3"1/2	25	4	670	OAB114
1"1/2	40	16	18	133	16	5/8"	62	98,3	3"7/8	35	4	640	OAB112
2"	50	16	18	162	20	3/4"	78	120,0	4"3/4	35	4	1000	OAB200
2"1/2	65	16	18	184	20	3/4"	92	139,7	5"1/2	40	4	1310	OAB212
3"	80	16	18	194	20	3/4"	111	152,4	6"	40	4	1250	OAB300
4"	100	16	18	229	20	3/4"	133	190,6	7"1/2	40	8	1660	OAB400

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

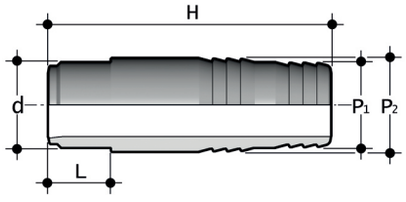


OABC

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

inch	DN	*MPA (bar)	B	D	d2(mm)	d_2(inch)	k(mm)	k(inch)	**Nm	n	g	Code
1/2"	15	16	12	95	16	5/8"	60,45	2"3/8	15	4	200	OABC012
3/4"	20	16	12	102	16	5/8"	69,85	2"3/4	15	4	240	OABC034
1"	25	16	16	114	16	5/8"	79,25	3"1/8	15	4	370	OABC100
1"1/4	32	16	16	130	16	5/8"	88,90	3"1/2	25	4	530	OABC114
1"1/2	40	16	18	133	16	5/8"	98,55	3"7/8	35	4	560	OABC112
2"	50	16	18	162	20	3/4"	120,65	4"3/4	35	4	810	OABC200
2"1/2	65	16	18	184	20	3/4"	139,70	5"1/2	40	4	1070	OABC212
3"	80	16	18	194	20	3/4"	152,40	6"	40	4	1030	OABC300
4"	100	16	18	229	20	3/4"	190,50	7"1/2	40	8	1570	OABC400

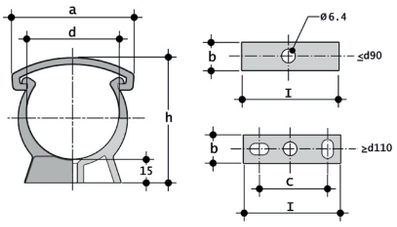
* MPA: maximum admissible working pressure
**nominal tightening torque
all resale products



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	98	22	40	AIV032032030
40 x 42 x 40	16	104	26	78	AIV040042040
50 x 52 x 50	16	111	31	113	AIV050052050
63 x 64 x 60	16	123	38	170	AIV063064060

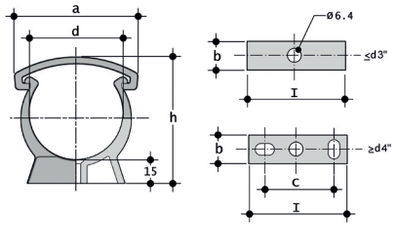


ZIKM

Pipe clip for ISO-DIN pipes in PP

d	a	b	C	h	l	g	Code
16	26	18	-	33	16	5	ZIKM016
20	33	14	-	38	20	6,4	ZIKM020
25	41	14	-	44	25	7,8	ZIKM025
32	49	15	-	51	32	11,5	ZIKM032
40	58	16	-	60	40	15,7	ZIKM040
50	68	17	-	71	60	23,2	ZIKM050
63	83	18	-	84	63	28,8	ZIKM063
75	96	19	-	97	75	35,5	ZIKM075
90	113	20	-	113	90	52,4	ZIKM090
110	139	23	40	134	125	71	ZIKM110
140	177	27	70	167	155	149,5	ZIKM140
160	210	30	90	190	180	218,4	ZIKM160
180	237	33	100	211	200	293,6	ZIKM180

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

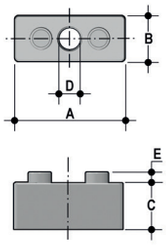


ZAKM

Pipe clip for ASTM pipes in PP

d	a	b	C	h	l	g	Code
1/2"	33	14	-	39	20	7	ZAKM012
3/4"	41	14	-	45	25	7,8	ZAKM034
1"	49	15	-	52	32	11,7	ZAKM100
1"1/4	58	16	-	61	40	16	ZAKM114
1"1/2	68	17	-	67	50	17,9	ZAKM112
2"	83	18	-	80	63	29	ZAKM200
2"1/2	96	19	-	96	75	36	ZAKM212
3"	118	20	-	110	90	52,3	ZAKM300
4"	140	25	60	135	140	74	ZAKM400
6"	197	30	90	196	180	188	ZAKM600

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



DSM

Distance plates in PP for ZIKM pipe clips

d	A	B	C	D	E	g	Pack	Master	Code
32	33	16	14	8	4	6,4	20	120	DSM032
40	41	17	17	8	4	8,2	10	80	DSM040
50	51	18	17	8	4	9,8	10	50	DSM050
63	64	19	22,5	8	4	13,4	10	40	DSM063
75	76	20	34,5	8	4	20,2	10	40	DSM075

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