



PRESS SYSTEM

RACCORDI A PRESSARE PER TUBO MULTISTRATO



DIMENSIONS

TIPOLOGIA PRODOTTO

Raccordi a pressare in ottone

FUNZIONE

Raccordi per impianti di adduzione acqua sanitaria

Raccordi per impianti di riscaldamento

SISTEMA

I raccordi Comisa Press EVO compongono, unitamente al tubo multistrato Comisa, il sistema Comisa Press.

La compatibilità dei raccordi con tubo multistrato di altro produttore o di diversa tipologia deve essere esplicitamente richiesta a Comisa S.p.A. che, dopo avere attuato un proprio protocollo di prove, rilascerà una certificazione di garanzia.

SPECIFICHE PER L'UTILIZZO

Utilizzare ganasce per pressatura con profilo TH della dimensione adatta alla misura del raccordo da installare.

Seguire scrupolosamente le istruzioni fornite da Comisa S.p.A.

PRESTAZIONI

Pressione max di esercizio 10 bar

Temperatura max di esercizio 95°C

Temperatura max di picco 110°C (1 h)

I dati sono riferiti al sistema Comisa Press abbinati a tubo multistrato Comisa.

PRESS CONTROL

Pressione di prova per individuare eventuali raccordi non pressati max 4,5 bar.

GARANZIA

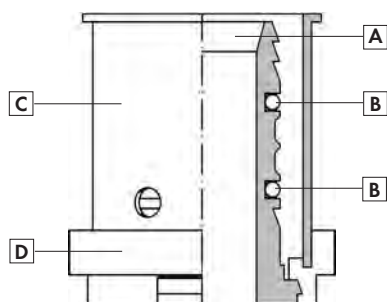
10 anni a norma di legge. Tale garanzia decade qualora:

- l'installazione non avvenga secondo le istruzioni di montaggio riportate nelle pubblicazioni di Comisa S.p.A.
- Il sistema venga impiegato per condurre liquidi diversi da quelli riportati nelle pubblicazioni di Comisa S.p.A.
- Nel sistema vengano immessi liquidi a valori di pressione e temperatura diversi dai rispettivi limiti riportati nelle pubblicazioni di Comisa S.p.A.

CERTIFICAZIONI

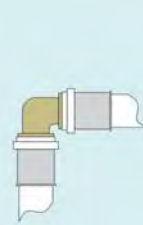
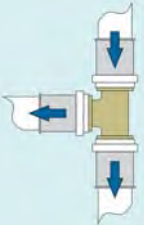
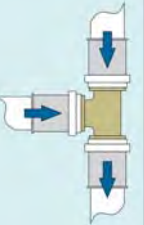
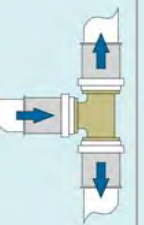
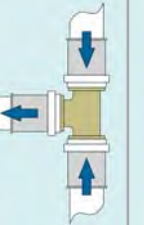
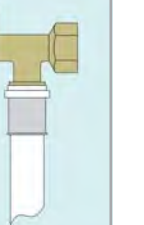
Il sistema Comisa Press è certificato da DVGW (n. DW-8501BO0049)

MATERIALI



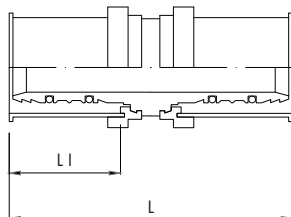
- A) **Corpo:** ottone EN 12165 CW617N adatto per il passaggio di liquidi alimentari destinati al consumo umano.
- B) **O Ring:** 2 O.R. realizzati con mescola EPDM-perossidico.
- C) **Bussolotto:** acciaio inox AISI 304 DIN EN 10088-2 sottoposto a processo di solubilizzazione.
- D) **Anello a clip:** in PE-LD, polietilene a bassa densità. La forma della clip fornisce inoltre un riscontro preciso alla pinza TH.

TABELLA PER IL CALCOLO DELLE PERDITE DI CARICO LOCALIZZATE (ESPRESSE IN METRI EQUIVALENTI DI TUBO) LUNGHEZZE EQUIVALENTI

							
Ø 16 x 2,0	0,80	0,70	0,60	1,40	1,80	0,35	0,80
Ø 18 x 2,0	1,00	0,90	0,80	1,60	2,10	0,45	1,00
Ø 20 x 2,5	1,10	1,00	0,90	1,70	2,20	0,45	1,10
Ø 20 x 2,0	1,30	1,15	1,00	1,90	2,70	0,50	1,30
Ø 26 x 3,0	1,80	1,60	1,40	2,50	4,30	0,65	1,80
Ø 32 x 3,0	2,70	2,30	2,00	4,20	6,30	0,85	2,70
Ø 40 x 3,5	3,00	2,60	2,30	5,00	7,50	1,00	3,00
Ø 50 x 4,0	4,60	4,20	3,80	6,70	10,00	1,30	4,60



DIMENSIONS

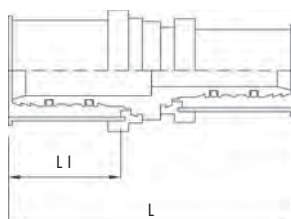


Misure mm	L	LI	Codice
14 x 2	63	25	87.10.140
16 x 2	63	25	87.10.160
16 x 2,25	63	25	87.10.161
17 x 2	63	25	87.10.170
18 x 2	63	25	87.10.180
20 x 2	63	25	87.10.200
20 x 2,5	63	25	87.10.201
25 x 2,5	63	25	87.10.250
26 x 3	63	25	87.10.260
32 x 3	68	25	87.10.320
40 x 3,5	71	25	87.10.400
50 x 4	96	40	87.10.500
63 x 6	82	37	87.10.631

87.10



RACCORDO DIRITTO

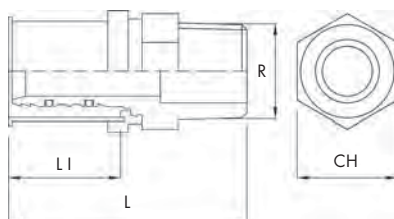


Misure mm	L	LI	Codice
16 x 2 - 14 x 2	63	25	87.11.160
18 x 2 - 16 x 2	63	25	87.11.181
20 x 2 - 14 x 2	63	25	87.11.200
20 x 2 - 16 x 2	63	25	87.11.201
20 x 2 - 18 x 2	63	25	87.11.203
20 x 2,5 - 16 x 2	63	25	87.11.205
20 x 2,5 - 16 x 2,25	63	25	87.11.206
25 x 2,5 - 16 x 2	63	25	87.11.250
25 x 2,5 - 18 x 2	63	25	87.11.251
25 x 2,5 - 20 x 2	63	25	87.11.252
26 x 3 - 16 x 2	63	25	87.11.260
26 x 3 - 18 x 2	63	25	87.11.262
26 x 3 - 20 x 2	63	25	87.11.263
26 x 3 - 20 x 2,5	63	25	87.11.264
32 x 3 - 16 x 2	68	25	87.11.320
32 x 3 - 18 x 2	68	25	87.11.321
32 x 3 - 20 x 2	68	25	87.11.322
32 x 3 - 25 x 2,5	68	25	87.11.324
32 x 3 - 26 x 3	68	25	87.11.325
40 x 3,5 - 25 x 2,5	71	25	87.11.400
40 x 3,5 - 26 x 3	71	25	87.11.401
40 x 3,5 - 32 x 3	71	25	87.11.402
50 x 4 - 32 x 3	81	40 - 25	87.11.501
50 x 4 - 40 x 3,5	81	40 - 25	87.11.600
63 x 6 - 40 x 3,5	73	37 - 25	87.11.640
63 x 6 - 50 x 4	89	37 - 40	87.11.650

87.11



RACCORDO DIRITTO RIDOTTO



Misure mm	L	LI	R	CH	Codice
14 x 2 - 1/2"	50	25	1/2"	22	87.12.140
16 x 2 - 1/2"	50	25	1/2"	22	87.12.160
16 x 2,25 - 1/2"	50	25	1/2"	22	87.12.161
18 x 2 - 1/2"	50	25	1/2"	22	87.12.180
18 x 2 - 3/4"	54	25	3/4"	27	87.12.181
20 x 2 - 1/2"	50	25	1/2"	22	87.12.200
20 x 2 - 3/4"	54	25	3/4"	27	87.12.201
20 x 2,5 - 1/2"	50	25	1/2"	22	87.12.202
20 x 2,5 - 3/4"	54	25	3/4"	27	87.12.203
25 x 2,5 - 3/4"	54	25	3/4"	37	87.12.250
25 x 2,5 - 1"	57	25	1"	34	87.12.251
26 x 3 - 1/2"	53	25	1/2"	27	87.12.255
26 x 3 - 3/4"	54	25	3/4"	27	87.12.260
26 x 3 - 1"	57	25	1"	34	87.12.261
32 x 3 - 1"	57	25	1"	34	87.12.320
32 x 3 - 1 1/4"	62	25	1 1/4"	43	87.12.321
40 x 3,5 - 1"	60	25	1"	43	87.12.400
40 x 3,5 - 1 1/4"	62	25	1 1/4"	43	87.12.401
50 x 4 - 1 1/4"	73	40	1 1/4"	50	87.12.500
50 x 4 - 1 1/2"	73	40	1 1/2"	50	87.12.501
63 x 6 - 2"	85	37	2"	60	87.12.631

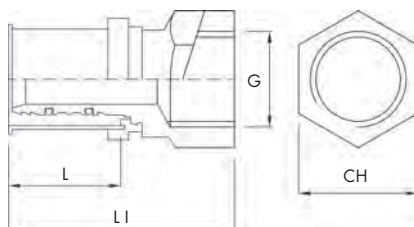
87.12



RACCORDO DIRITTO MASCHIO



DIMENSIONS

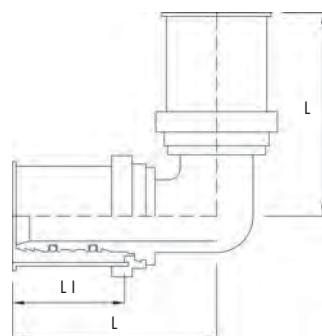


Misure mm	L	LI	G	CH	Codice
14 x 2 - 1/2"	50	25	1/2"	25	87.13.140
16 x 2 - 1/2"	50	25	1/2"	25	87.13.160
16 x 2,25 - 1/2"	50	25	1/2"	25	87.13.161
18 x 2 - 1/2"	50	25	1/2"	25	87.13.180
18 x 2 - 3/4"	53	25	3/4"	30	87.13.181
20 x 2 - 1/2"	50	25	1/2"	25	87.13.200
20 x 2 - 3/4"	53	25	3/4"	30	87.13.201
20 x 2,5 - 1/2"	50	25	1/2"	25	87.13.202
20 x 2,5 - 3/4"	53	25	3/4"	30	87.13.203
25 x 2,5 - 3/4"	53	25	3/4"	30	87.13.250
25 x 2,5 - 1"	53	25	1"	38	87.13.251
26 x 3 - 3/4"	53	25	3/4"	30	87.13.260
26 x 3 - 1"	53	25	1"	38	87.13.261
32 x 3 - 1"	53	25	1"	38	87.13.320
32 x 3 - 1 1/4"	57	25	1 1/4"	50	87.13.321
40 x 3,5 - 1"	53	25	1"	43	87.13.400
40 x 3,5 - 1 1/4"	57	25	1 1/4"	50	87.13.401
40 x 3,5 - 1 1/2"	57	25	1 1/2"	50	87.13.405
50 x 4 - 1 1/4"	70	40	1 1/4"	50	87.13.500
50 x 4 - 1 1/2"	73	40	1 1/2"	50	87.13.501

87.13



RACCORDO DIRITTO
FEMMINA

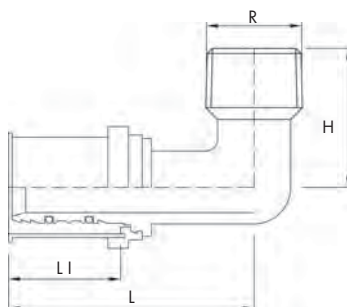


Misure mm	L	LI	Codice
16 x 2	45	25	87.14.160
16 x 2,25	45	25	87.14.161
18 x 2	45	25	87.14.180
20 x 2	45	25	87.14.200
20 x 2,5	45	25	87.14.201
25 x 2,5	45	25	87.14.250
26 x 3	48	25	87.14.260
32 x 3	52	25	87.14.320
40 x 3,5	56	25	87.14.340
50 x 4	76	40	87.14.350
63 x 6	83	37	87.14.631

87.14



GOMITO 90°

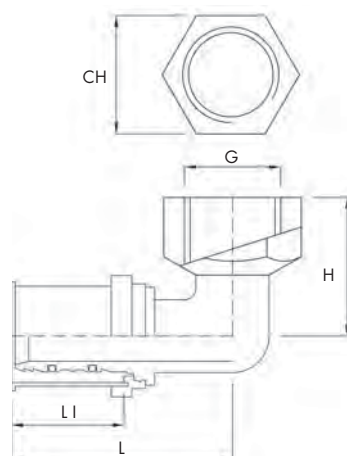


Misure mm	L	LI	H	R	Codice
14 x 2 - 1/2"	54	25	31	1/2"	87.16.140
16 x 2 - 1/2"	47	25	29	1/2"	87.16.160
16 x 2,25 - 1/2"	47	25	29	1/2"	87.16.161
18 x 2 - 1/2"	54	25	31	1/2"	87.16.180
20 x 2 - 1/2"	54	25	31	1/2"	87.16.200
20 x 2 - 3/4"	49	25	34	3/4"	87.16.201
20 x 2,5 - 1/2"	54	25	31	1/2"	87.16.202
20 x 2,5 - 3/4"	49	25	34	3/4"	87.16.203
25 x 2,5 - 3/4"	49	25	39	3/4"	87.16.250
26 x 3 - 3/4"	49	25	39	3/4"	87.16.260
32 x 3 - 1"	52	25	43	1"	87.16.320
40 x 3,5 - 1 1/4"	55	25	54	1 1/4"	87.16.400
50 x 4 - 1 1/4"	76	40	61	1 1/4"	87.16.500
50 x 4 - 1 1/2"	76	40	61	1 1/2"	87.16.501

87.16



GOMITO 90°
MASCHIO



Misure mm	L	LI	H	G	CH	Codice
14 x 2 - 1/2"	47	25	25	1/2"	25	87.17.140
16 x 2 - 1/2"	54	25	33	1/2"	\	87.17.159
16 x 2 - 1/2"	47	25	25	1/2"	25	87.17.160
16 x 2,25 - 1/2"	47	25	25	1/2"	25	87.17.161
18 x 2 - 1/2"	48	25	26	1/2"	26	87.17.180
18 x 2 - 3/4"	49	25	34	3/4"	31	87.17.181
20 x 2 - 1/2"	48	25	26	1/2"	26	87.17.200
20 x 2 - 3/4"	49	25	34	3/4"	31	87.17.201
20 x 2,5 - 1/2"	48	25	26	1/2"	26	87.17.202
20 x 2,5 - 3/4"	49	25	34	3/4"	31	87.17.203
25 x 2,5 - 3/4"	49	25	42	3/4"	31	87.17.250
26 x 3 - 3/4"	49	25	42	3/4"	31	87.17.260
32 x 3 - 1"	52	25	45	1"	38	87.17.320
40 x 3,5 - 1 1/4"	56	25	55	1 1/4"	47	87.17.400
50 x 4 - 1 1/4"	76	40	63	1 1/4"	\	87.17.500
50 x 4 - 1 1/2"	76	40	63	1 1/2"	\	87.17.501

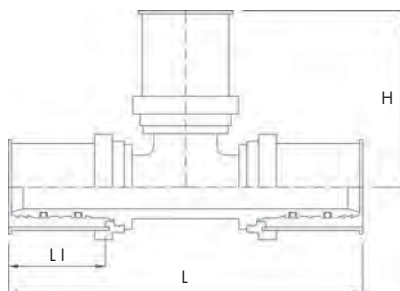
87.17



GOMITO 90°



DIMENSIONS

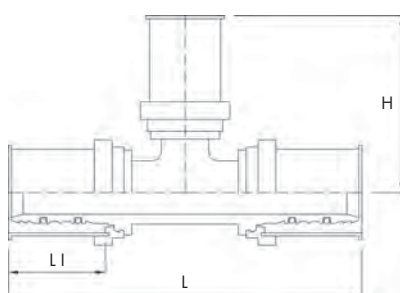


Misure mm	L	LI	H	Codice
14 x 2	90	25	45	87.18.140
16 x 2	90	25	45	87.18.160
16 x 2,25	90	25	45	87.18.161
18 x 2	90	25	45	87.18.180
20 x 2	90	25	45	87.18.200
20 x 2,5	90	25	45	87.18.201
25 x 2,5	96	25	48	87.18.250
26 x 3	96	25	48	87.18.260
32 x 3	104	25	52	87.18.320
40 x 3,5	112	25	56	87.18.400
50 x 4	152	40	76	87.18.500
63 x 6	166	37	83	87.18.631

87.18



RACCORDO A T

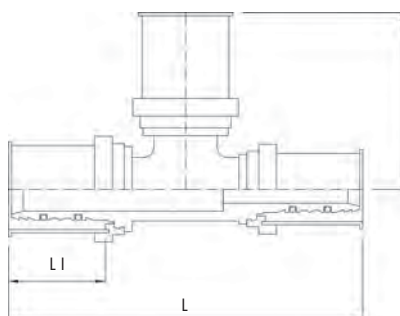


Misure mm	L	LI	H	Codice
16 x 2 - 14 x 2 - 16 x 2	90	25	45	87.19.160
18 x 2 - 16 x 2 - 18 x 2	90	25	45	87.19.181
20 x 2 - 16 x 2 - 20 x 2	90	25	45	87.19.201
20 x 2 - 18 x 2 - 20 x 2	90	25	45	87.19.202
20 x 2,5 - 16 x 2 - 20 x 2,5	90	25	45	87.19.204
20 x 2,5 - 16 x 2,25 - 20 x 2,5	90	25	45	87.19.205
25 x 2,5 - 16 x 2 - 25 x 2,5	96	25	48	87.19.250
25 x 2,5 - 20 x 2 - 25 x 2,5	96	25	48	87.19.252
26 x 3 - 20 x 2,5 - 26 x 3	96	25	48	87.19.260
26 x 3 - 16 x 2 - 26 x 3	96	25	48	87.19.261
26 x 3 - 18 x 2 - 26 x 3	96	25	48	87.19.262
26 x 3 - 20 x 2 - 26 x 3	96	25	48	87.19.263
32 x 3 - 16 x 2 - 32 x 3	104	25	52	87.19.320
32 x 3 - 18 x 2 - 32 x 3	104	25	52	87.19.321
32 x 3 - 20 x 2 - 32 x 3	104	25	52	87.19.322
32 x 3 - 20 x 2,5 - 32 x 3	104	25	52	87.19.323
32 x 3 - 25 x 2,5 - 32 x 3	104	25	52	87.19.324
32 x 3 - 26 x 3 - 32 x 3	104	25	52	87.19.326
40 x 3,5 - 25 x 2,5 - 40 x 3,5	112	25	56	87.19.401
40 x 3,5 - 26 x 3 - 40 x 3,5	112	25	56	87.19.402
40 x 3,5 - 32 x 3 - 40 x 3,5	112	25	56	87.19.403
50 x 4 - 26 x 3 - 50 x 4	152	40	76	87.19.500
50 x 4 - 32 x 3 - 50 x 4	152	40	76	87.19.501
50 x 4 - 40 x 3,5 - 50 x 4	152	40	76	87.19.502

87.19



RACCORDO A T
RIDOTTO
CENTRALMENTE



Misure mm	L	LI	H	Codice
16 x 2 - 14 x 2 - 14 x 2	90	25	45	87.20.160
18 x 2 - 16 x 2 - 16 x 2	90	25	45	87.20.181
20 x 2 - 16 x 2 - 16 x 2	90	25	45	87.20.202
20 x 2 - 18 x 2 - 18 x 2	90	25	45	87.20.203
20 x 2 - 16 x 2 - 18 x 2	90	25	45	87.20.204
20 x 2 - 20 x 2 - 14 x 2	90	25	45	87.20.205
20 x 2 - 20 x 2 - 16 x 2	90	25	45	87.20.206
20 x 2,5 - 16 x 2 - 16 x 2	90	25	45	87.20.209
20 x 2,5 - 16 x 2,25 - 16 x 2,25	90	25	45	87.20.210
25 x 2,5 - 16 x 2 - 20 x 2	96	25	48	87.20.250
25 x 2,5 - 20 x 2 - 16 x 2	96	25	48	87.20.251
25 x 2,5 - 20 x 2 - 20 x 2	96	25	48	87.20.252
25 x 2,5 - 25 x 2,5 - 16 x 2	96	25	48	87.20.253
25 x 2,5 - 25 x 2,5 - 20 x 2	96	25	48	87.20.254
26 x 3 - 16 x 2 - 20 x 2	96	25	48	87.20.260
26 x 3 - 18 x 2 - 18 x 2	96	25	48	87.20.262
26 x 3 - 20 x 2 - 16 x 2	96	25	48	87.20.264
26 x 3 - 20 x 2 - 20 x 2	96	25	48	87.20.265
26 x 3 - 20 x 2,5 - 20 x 2,5	96	25	48	87.20.267
26 x 3 - 26 x 3 - 20 x 2,5	96	25	48	87.20.268
26 x 3 - 26 x 3 - 16 x 2	96	25	48	87.20.269
26 x 3 - 26 x 3 - 20 x 2	96	25	48	87.20.270
32 x 3 - 20 x 2 - 26 x 3	104	25	52	87.20.320
32 x 3 - 20 x 2,5 - 26 x 3	104	25	52	87.20.321
32 x 3 - 25 x 2,5 - 25 x 2,5	104	25	52	87.20.323
32 x 3 - 26 x 3 - 26 x 3	104	25	52	87.20.325
32 x 3 - 32 x 3 - 20 x 2	104	25	52	87.20.326
32 x 3 - 32 x 3 - 26 x 3	104	25	52	87.20.329
40 x 3,5 - 32 x 3 - 32 x 3	112	25	56	87.20.400
40 x 3,5 - 26 x 3 - 32 x 3	112	25	56	87.20.403
40 x 3,5 - 40 x 3,5 - 26 x 3	112	25	56	87.20.404
40 x 3,5 - 40 x 3,5 - 32 x 3	112	25	56	87.20.405
50 x 4 - 40 x 3,5 - 40 x 3,5	139	40	76	87.20.500
50 x 4 - 32 x 3 - 40 x 3,5	139	40	76	87.20.501
50 x 4 - 50 x 4 - 32 x 3	139	40	76	87.20.502
50 x 4 - 50 x 4 - 40 x 3,5	139	40	76	87.20.503

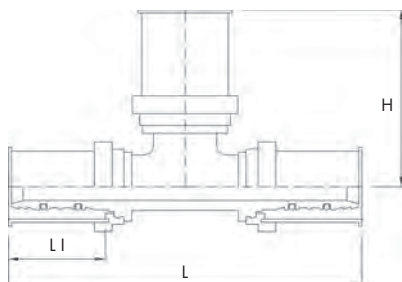
87.20



RACCORDO A T
RIDOTTO



DIMENSIONS

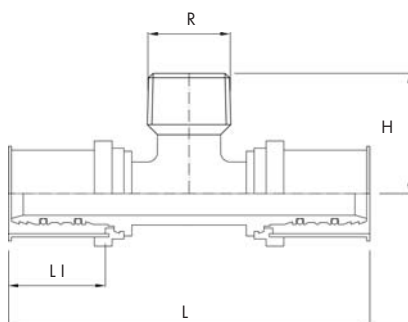


Misure mm	L	LI	H	Codice
14 x 2 - 16 x 2 - 14 x 2	90	25	45	87.21.140
16 x 2 - 18 x 2 - 16 x 2	90	25	45	87.21.160
16 x 2 - 20 x 2 - 16 x 2	90	25	45	87.21.161
16 x 2 - 20 x 2,5 - 16 x 2	90	25	45	87.21.162
16 x 2,25 - 20 x 2,5 - 16 x 2,25	90	25	45	87.21.163
20 x 2 - 25 x 2,5 - 20 x 2	96	25	48	87.21.200
20 x 2 - 26 x 3 - 20 x 2	96	25	48	87.21.201
20 x 2,5 - 26 x 3 - 20 x 2,5	96	25	48	87.21.202
25 x 2,5 - 32 x 3 - 25 x 2,5	104	25	52	87.21.250
26 x 3 - 32 x 3 - 26 x 3	104	25	52	87.21.260

87.21



RACCORDO A T
ALLARGATO AL CEBTRO

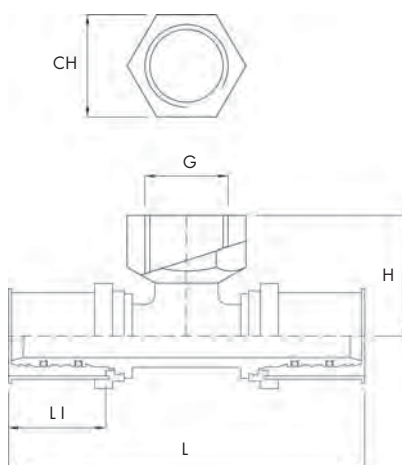


Misure mm	L	LI	H	R	Codice
16 x 2 - 1/2" - 16 x 2	92	25	29	1/2"	87.22.160
16 x 2,25 - 1/2" - 16 x 2,25	92	25	29	1/2"	87.22.161
18 x 2 - 1/2" - 18 x 2	92	25	32	1/2"	87.22.180
20 x 2 - 1/2" - 20 x 2	92	25	32	1/2"	87.22.200
20 x 2 - 3/4" - 20 x 2	98	25	36	3/4"	87.22.201
20 x 2,5 - 1/2" - 20 x 2,5	92	25	32	1/2"	87.22.202
25 x 2,5 - 3/4" - 25 x 2,5	98	25	36	3/4"	87.22.251
25 x 2,5 - 1" - 25 x 2,5	104	25	40	1"	87.22.252
26 x 3 - 1/2" - 26 x 3	98	25	33	1/2"	87.22.260
26 x 3 - 3/4" - 26 x 3	98	25	36	3/4"	87.22.261
26 x 3 - 1" - 26 x 3	104	25	40	1"	87.22.262
32 x 3 - 3/4" - 32 x 3	104	25	38	3/4"	87.22.320
32 x 3 - 1" - 32 x 3	104	25	40	1"	87.22.321
40 x 3,5 - 1" - 40 x 3,5	112	25	45	1"	87.22.400
50 x 4 - 1 1/4" - 50 x 4	152	40	61	1 1/4"	87.22.500
50 x 4 - 1 1/2" - 50 x 4	152	40	61	1 1/2"	87.22.501

87.22



RACCORDO A T
MASCHIO



Misure mm	L	LI	H	G	CH	Codice
116 x 2 - 1/2" - 16 x 2	92	25	33	1/2"	25	87.23.160
16 x 2,25 - 1/2" - 16 x 2,25	92	25	33	1/2"	25	87.23.161
18 x 2 - 1/2" - 18 x 2	92	25	35	1/2"	25	87.23.180
18 x 2 - 3/4" - 18 x 2	98	25	42	3/4"	31	87.23.181
20 x 2 - 1/2" - 20 x 2	92	25	35	1/2"	25	87.23.200
20 x 2 - 3/4" - 20 x 2	98	25	42	3/4"	31	87.23.201
20 x 2,5 - 1/2" - 20 x 2,5	92	25	35	1/2"	25	87.23.202
20 x 2,5 - 3/4" - 20 x 2,5	98	25	42	3/4"	31	87.23.203
25 x 2,5 - 1/2" - 25 x 2,5	92	25	35	1/2"	25	87.23.250
25 x 2,5 - 3/4" - 25 x 2,5	98	25	42	3/4"	31	87.23.252
26 x 3 - 1/2" - 26 x 3	94	25	37	1/2"	25	87.23.260
26 x 3 - 1/2" - 20 x 2	94	25	37	1/2"	25	87.23.261
26 x 3 - 3/4" - 26 x 3	98	25	42	3/4"	31	87.23.263
32 x 3 - 1/2" - 32 x 3	104	25	45	1/2"	38	87.23.320
32 x 3 - 3/4" - 32 x 3	104	25	45	1/2"	38	87.23.321
32 x 3 - 1" - 32 x 3	104	25	45	1/2"	38	87.23.322
32 x 3 - 1 1/4" - 32 x 3	112	25	55	1 1/4"	47	87.23.323
40 x 3,5 - 1" - 40 x 3,5	112	25	55	1 1/4"	47	87.23.400
40 x 3,5 - 1 1/4" - 40 x 3,5	112	25	55	1 1/4"	47	87.23.401
50 x 4 - 1 1/4" - 50 x 4	152	40	63	1 1/4"	\	87.23.500
50 x 4 - 1 1/2" - 50 x 4	152	40	63	1 1/2"	\	87.23.501
63 x 6 - 1" - 63 x 6	156	37	59	1"	\	87.23.631
63 x 6 - 1 1/2" - 63 x 6	156	37	59	1 1/2"	\	87.23.632

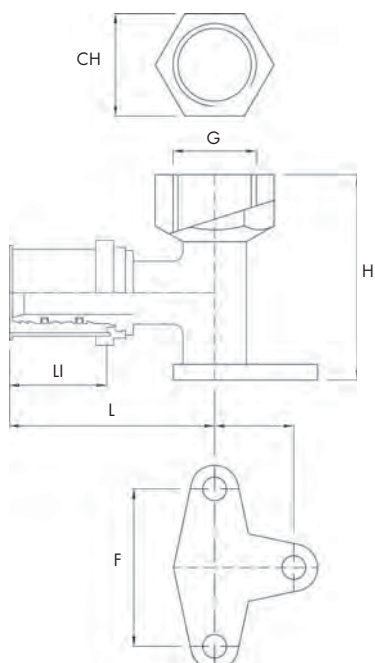
87.23



RACCORDO A T
FEMMINA



DIMENSIONS



Misure mm	L	LI	H	G	CH	F	Codice
14 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.140
16 x 2 - 3/8"	47	25	39	3/8"	25	40	87.24.145
16 x 2,25 - 1/2"	47	25	39	1/2"	25	40	87.24.159
16 x 2 - 1/2"	47	25	39	1/2"	25	40	87.24.160
16 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.161
18 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.180
20 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.200
20 x 2 - 3/4"	52	25	52	3/4"	30	40	87.24.201
20 x 2,5 - 1/2"	52	25	52	1/2"	26	40	87.24.202
20 x 2,5 - 3/4"	52	25	52	3/4"	30	40	87.24.203
25 x 2,5 - 3/4"	52	25	52	3/4"	30	40	87.24.250
26 x 3 - 3/4"	52	25	52	3/4"	30	40	87.24.260

87.24



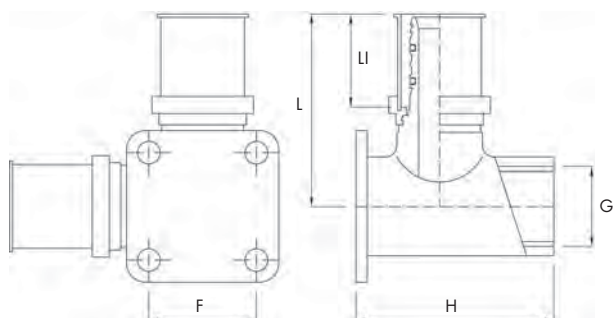
GOMITO FEMMINA
FLANGIATO

Misure mm	L	LI	H	G	F	Codice
16 x 2 - 1/2" - 16 x 2	51	25	52	1/2"	28	87.25.160
16 x 2,25 - 1/2" - 16 x 2,25	51	25	52	1/2"	28	87.25.161
18 x 2 - 1/2" - 18 x 2	51	25	52	1/2"	28	87.25.180
20 x 2 - 1/2" - 20 x 2	51	25	52	1/2"	28	87.25.200

87.25



GOMITO FEMMINA
FLANGIATO
DOPPIO CORTO

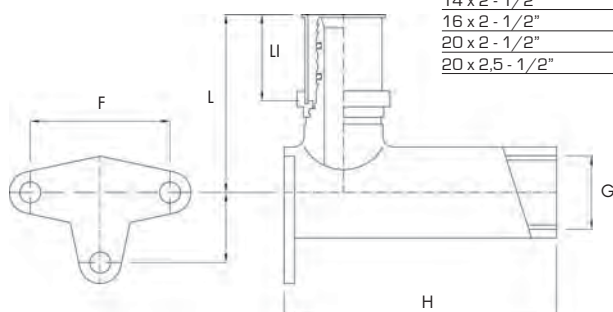


Misure mm	L	LI	H	G	F	Codice
14 x 2 - 1/2"	51	25	78	1/2"	40	87.26.140
16 x 2 - 1/2"	51	25	78	1/2"	40	87.26.160
20 x 2 - 1/2"	51	25	78	1/2"	40	87.26.200
20 x 2,5 - 1/2"	51	25	78	1/2"	40	87.26.201

87.26

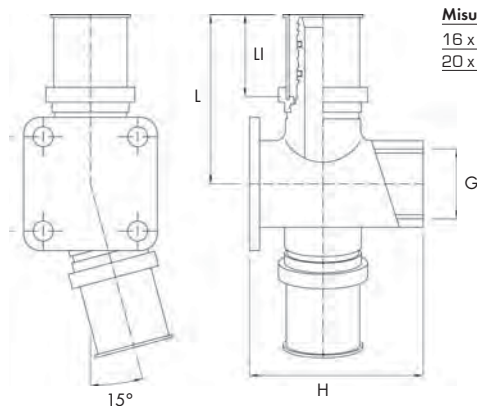


GOMITO FEMMINA
FLANGIATO
DOPPIO CORTO





DIMENSIONS

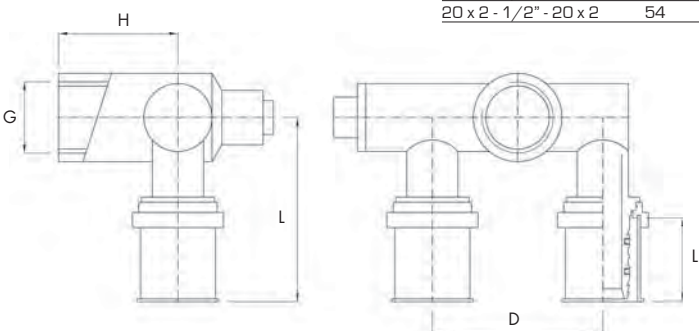


Misure mm	L	LI	H	G	Codice
16 x 2 - 1/2" F - 16 x 2 h 52 mm	51	25	52	1/2"	87.26.205
20 x 2 - 1/2" F - 20 x 2 h 52 mm	51	25	52	1/2"	87.26.210

87.26



ATTACCO FLANGIATO
PASSANTE PER
COLLEGAMENTO
IN SERIE

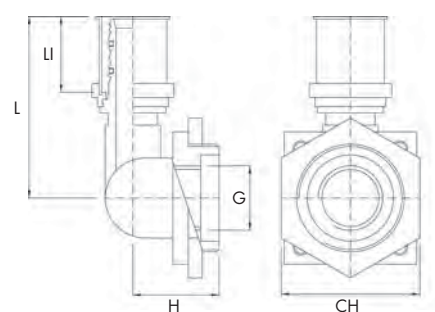


Misure mm	L	LI	H	G	D	Codice
16 x 2 - 1/2" - 16 x 2	54	25	35	1/2"	50	87.27.160
20 x 2 - 1/2" - 20 x 2	54	25	35	1/2"	50	87.27.200

87.27



ATTACCO A MURO
AD U

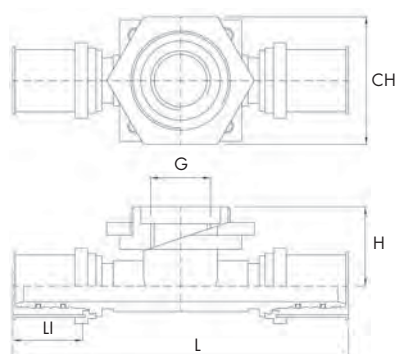


Misure mm	L	LI	H	G	CH	Codice
16 x 2 - 1/2"	59	25	28	1/2"	45	87.28.160
18 x 2 - 1/2"	59	25	28	1/2"	45	87.28.180
20 x 2 - 1/2"	59	25	28	1/2"	45	87.28.200

87.28



GOMITO
PER CISTERNA



Misure mm	L	LI	H	G	CH	Codice
16 x 2 - 1/2" - 16 x 2	118	25	28	1/2"	45	87.29.160
20 x 2 - 1/2" - 20 x 2	118	25	28	1/2"	45	87.29.200

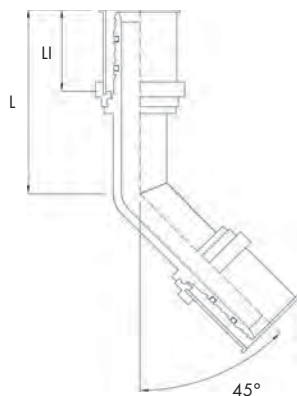
87.29



RACCORDO A T
PER CISTERNA



DIMENSIONS

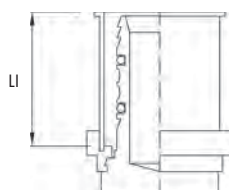


Misure mm	L	LI	Codice
25 x 2,5	56	25	87.30.250
26 x 3	56	25	87.30.260
32 x 3	56	25	87.30.320
40 x 3,5	56	25	87.30.400
50 x 4	77	40	87.30.500

87.30



GOMITO 45°

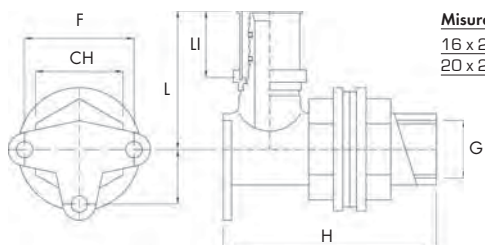


Misure mm	LI	Codice
14 x 2	25	87.31.140
16 x 2	25	87.31.160
18 x 2	25	87.31.180
20 x 2	25	87.31.200
25 x 2,5	25	87.31.250
26 x 3	25	87.31.260
32 x 3	25	87.31.320
40 x 3,5	25	87.31.400
50 x 4	40	87.31.500

87.31



TAPPI CIECHI
A PRESSARE

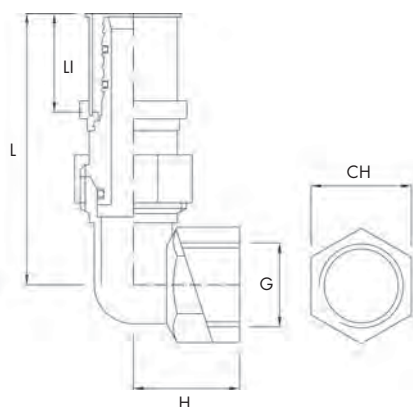


Misure mm	L	LI	H	G	CH	F	Codice
16 x 2	51	25	78	1/2"	30	40	87.33.105
20 x 2	51	25	78	1/2"	30	40	87.33.115

87.33



GOMITO FLANGIATO
PER CISTERNA
3/4" M x 1/2" F



Misure mm	L	LI	H	G	CH	Codice
16 x 2 - 1/2"	68	25	27	1/2"	25	87.35.160
18 x 2 - 1/2"	68	25	27	1/2"	25	87.35.180
20 x 2 - 1/2"	68	25	27	1/2"	25	87.35.200
20 x 2 - 3/4"	68	25	30	3/4"	31	87.35.201

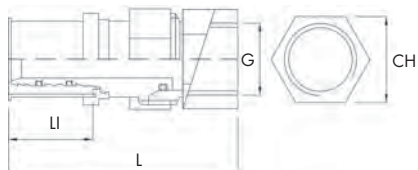
87.35



GOMITO
PER RACCORDO
FEMMINA 90°



DIMENSIONS

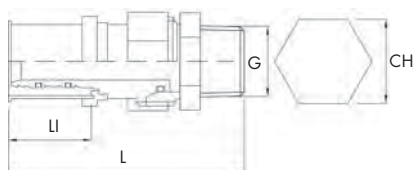


Misure mm	L	LI	G	CH	Codice
16 x 2 - 1/2"	67	25	1/2"	26	87.36.160
16 x 2 - 3/4"	72	25	3/4"	31	87.36.161
20 x 2 - 1/2"	67	25	1/2"	26	87.36.200
20 x 2 - 3/4"	72	25	3/4"	31	87.36.201
26 x 3 - 3/4"	73	25	3/4"	38	87.36.260
26 x 3 - 1"	73	25	1"	38	87.36.261
32 x 3 - 1"	86	25	1"	38	87.36.320

87.36



RACCORDO FEMMINA
CON TENUTA PIATTA

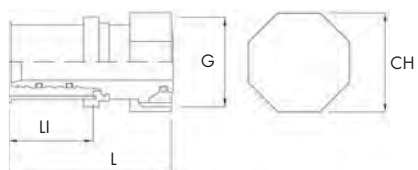


Misure mm	L	LI	G	CH	Codice
16 x 2 - 1/2"	73	25	1/2"	26	87.37.160
16 x 2 - 3/4"	74	25	3/4"	27	87.37.161
20 x 2 - 1/2"	73	25	1/2"	26	87.37.200
20 x 2 - 3/4"	74	25	3/4"	27	87.37.201
26 x 3 - 3/4"	67	25	3/4"	33	87.37.260
26 x 3 - 1"	71	25	1"	33	87.37.261
32 x 3 - 1"	85	25	1"	33	87.37.320

87.37



RACCORDO MASCHIO
TENUTA CONICA

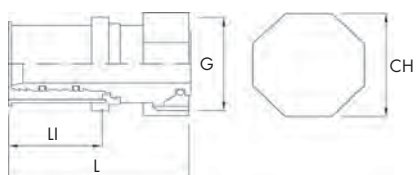


Misure mm	L	LI	G	CH	Codice
16 x 2 - 3/4"	48	25	3/4"	30	87.39.160
18 x 2 - 3/4"	48	25	3/4"	30	87.39.180
20 x 2 - 3/4"	48	25	3/4"	30	87.39.200
26 x 3 - 1"	44	25	1"		87.39.260
25 x 2,5 - 1"	44	25	1"		87.39.261

87.39



RACCORDO CON
TENUTA EUROKONO
GIALLO

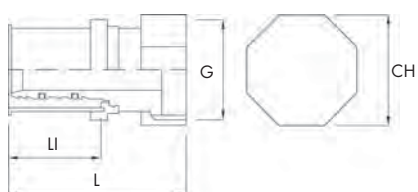


Misure mm	L	LI	G	CH	Codice
16 x 2 - 3/4"	48	25	3/4"	30	87.40.160
20 x 2 - 3/4"	48	25	3/4"	30	87.40.200

87.40



RACCORDO CON
TENUTA EUROKONO
NICHELATO



Misure mm	L	LI	G	CH	Codice
16 x 2 - 1/2"	52	25	1/2"	24	87.42.150
16 x 2 - 3/4"	48	25	3/4"	30	87.42.160
18 x 2 - 3/4"	48	25	3/4"	30	87.42.180
20 x 2 - 3/4"	48	25	3/4"	30	87.42.200
26 x 3 - 1"	45	25	1"	37	87.42.260

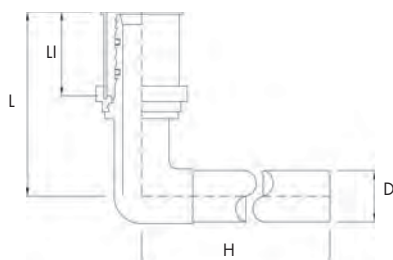
87.42



RACCORDO
CON TENUTA
PIATTA



DIMENSIONS

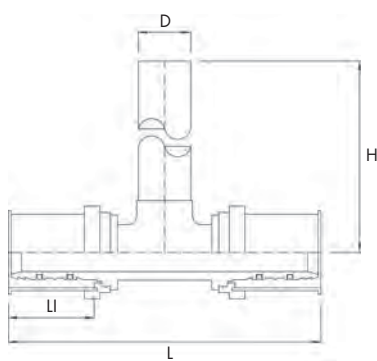


Misure mm	L	LI	H	D	Codice
14 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.140
16 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.160
16 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.161
18 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.180
18 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.181
20 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.200
20 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.201

87.45



GOMITO PER RADIATORI
NICHELATO

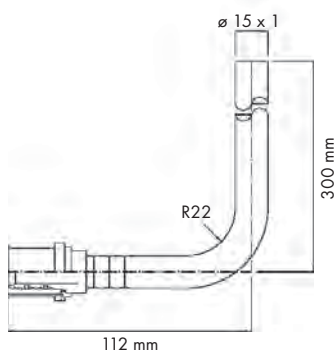


Misure mm	L	LI	H	D	Codice
14 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.140
14 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.141
16 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.160
16 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.161
18 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.180
18 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.181
20 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.200
20 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.201

87.46



RACCORDO A T
PER RADIATORI
NICHELATO

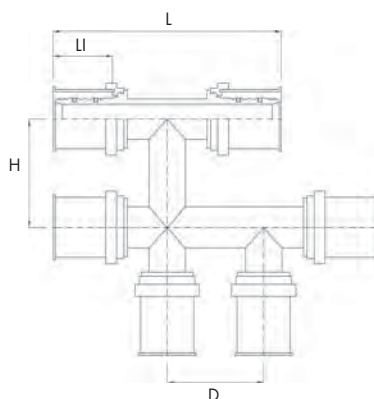


Misure mm	Codice
18 x 2 - 15 mm	87.45.185

87.45



GOMITO PER RADIATORI
TUBORAME



Misure mm	L	LI	H	D	Codice
16 x 16 x 16	95	25	40	40	87.49.010
20 x 16 x 16	95	25	40	40	87.49.015
20 x 16 x 20	95	25	40	40	87.49.020
20 x 20 x 20	95	25	40	40	87.49.025

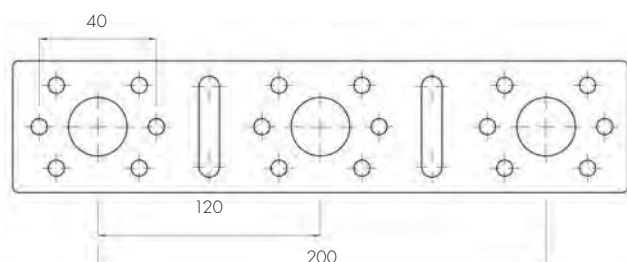
87.49



T BYPASS

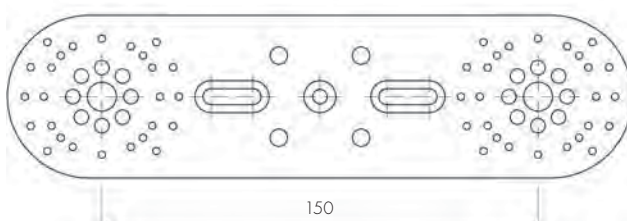


DIMENSIONS



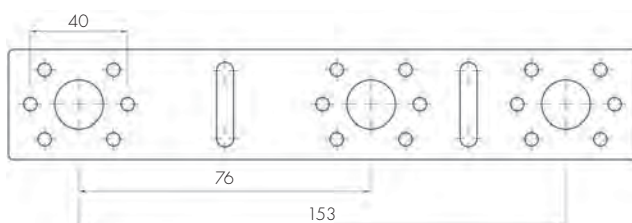
87.49.600

STAFFA DI FISSAGGIO
IN LAMIERINO ZINCATO
COMPLETA DI 4 VITI



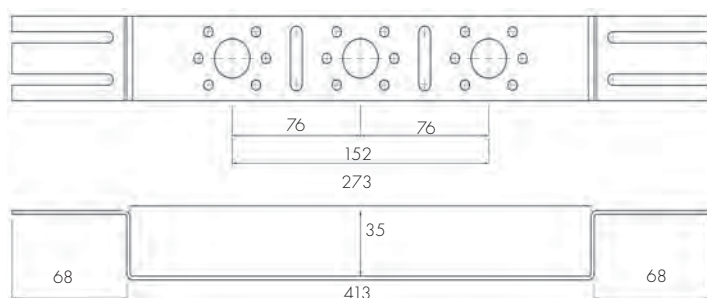
87.49.601

STAFFA DI FISSAGGIO
IN PLASTICA BIANCA
COMPLETA DI 4 VITI



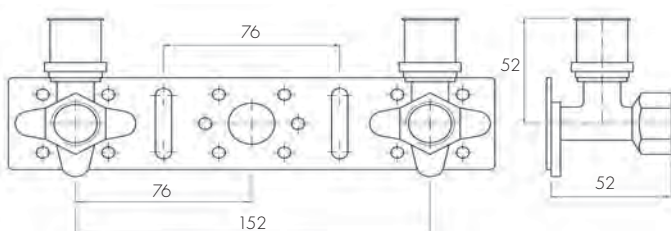
87.49.605

STAFFA DI FISSAGGIO
IN LAMIERINO ZINCATO
COMPLETA DI 4 VITI



87.49.610

STAFFA DI FISSAGGIO
AD INCASSO
IN LAMIERINO ZINCATO
PER ATTACCO A MURO
H 39 mm

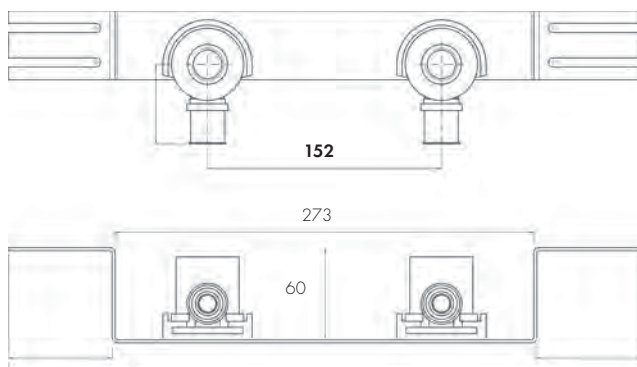


87.54.005

KIT PIASTRA CON
2 GOMITI FEMMINA
FLANGIATI MONTATI
16 x 1/2" F
h 52 mm.

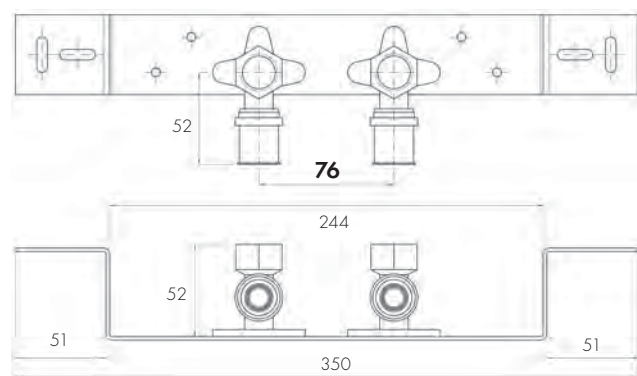


DIMENSIONS



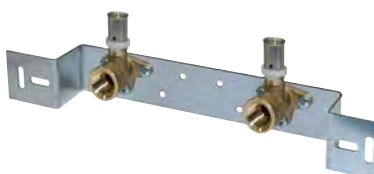
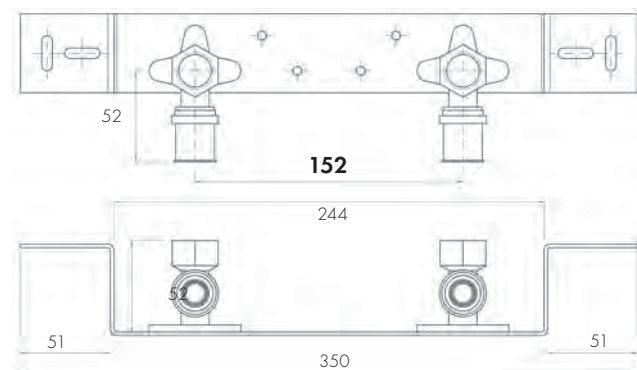
87.54.030

KIT PIASTRA CON
2 ATTACCHI A MURO
MONTATI 16 x 1" F
h 52 mm.
COIBENTATI



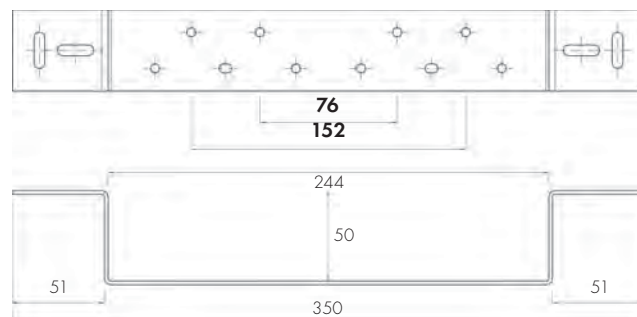
87.54.060

STAFFA SANITARIO
MONTATA CON
2 GOMITI FEMMINA
FLANGIATI MONTATI
1/2" F-16x2
INTERASSE 76 mm.



87.54.065

STAFFA SANITARIO
MONTATA CON
2 GOMITI FEMMINA
FLANGIATI MONTATI
1/2" F-16x2
INTERASSE 152 mm.



87.54.075

STAFFA SANITARIO
INTERASSE 75 - 152 mm
COMPLETA DI 6 VITI
+ 6 DADI
DI MONTAGGIO



ISTRUZIONI DI POSA



Taglio

Con l'apposito attrezzo, tagliare alla misura desiderata l'estremità del tubo che si intende raccordare.



Calibratura

Inserire nel tubo il calibratore della misura adatta. Ruotare lo strumento premendolo leggermente, così da ottenere una estremità del tubo libera da bave residue dal taglio e con uno smusso iniziale che permetterà al raccordo di inserirsi facilmente nel tubo. Inoltre, la parte di tubo calibrata, risulterà di diametro costante ed ottimale alla misura del raccordo.

ATTENZIONE: la corretta calibrazione del tubo è fondamentale per la buona realizzazione dell'impianto. Per tale scopo utilizzare esclusivamente calibratori ad asportazione di truciolo. Calibratori per tubo PEX non sono adeguati.



Inserimento-Montaggio

Inserimento del raccordo: inserire, con una adeguata pressione, il raccordo nel tubo calibrato. Verificare l'ottimale posizionamento degli elementi: i tre fori di ispezione del bussolotto inox devono rivelare la presenza del tubo di colore bianco.

ATTENZIONE: Non applicare nella giunzione nessun tipo di pasta abrasiva, collante o lubrificante che renderebbero inefficace il raccordo.



Pressatura

Serraggio della giunzione: mediante apposita pressatrice, che impiegherà una pinza adatta per dimensione e tipo di raccordo, chiudere la giunzione ottenuta fino al completo serraggio della pinza.



Controllo

Verificare la corretta pressatura del raccordo.

Velocità di installazione

I raccordi a pressare **Comisa Press Evo** si installano perfettamente con poche operazioni eseguibili anche da personale poco esperto. E' sufficiente seguire le istruzioni che forniamo e disporre della attrezzatura adeguata. Il risparmio in termini di tempo è garantito così come il risultato.

Praticità di utilizzo

I nostri raccordi sono immediatamente pronti per l'installazione senza che l'idraulico debba compiere alcuna operazione di montaggio; nell'imballaggio il raccordo è già completamente pre montato. La clip in plastica che implementa il bussolotto assicura il corretto posizionamento della ganasce di serraggio tipo TH. Le poche operazioni necessarie all'installazione, la gamma di figure e di misure disponibili assicurano la praticità di utilizzo dei raccordi **Comisa Press Evo**.

Sicurezza assoluta

Il sistema Press Control di cui sono dotati i raccordi Comisa Press Evo permette di individuare eventuali giunzioni non pressate. Durante la fase di collaudo dell'impianto, con pressione di prova fino a 4,5 bar, i raccordi Comisa Press Evo permettono la perdita immediata e perciò l'individuazione del raccordo sul quale intervenire. Tale caratteristica è omologata dall'ente DVGW solo sui raccordi **Comisa Press Evo**.

Versatilità

Comisa ha sviluppato i propri raccordi serie Evo per l'accoppiamento con ganasce tipo TH. Tuttavia è possibile pressare i raccordi **Comisa Press Evo** anche con altri profili, con i quali è stata testata la compatibilità.

COMPATIBILITÀ GANASCE

Il sistema Comisa Press-Evo, certificato DVGW N. DW-8501BO0049, è composto da:

- Raccordi Comisa Evo Press
- Tubo multistrato COMISA
- Ganasce profilo TH

Comisa garantisce la compatibilità delle ganasce con profilo **H** o **B**, per alcuni diametri specifici, solo se utilizzate con sistema Comisa Evo Press che prevede i componenti di cui sopra.

Profilo ganasce da utilizzare con raccordi Comisa Press EVO

TH
14
16
18
20
25
26
32
40
50
63



Compatibilità con ganasce H-B

H	B
14	14
16	16
18	18
20	20
26	26
32	32



Valori del coefficiente di perdita localizzata ξ (csi) $t = 18^\circ\text{C}$, $\rho = 999 \text{ Kg/m}^3$

RACCORDO DRITTO
FLUSSO PASSANTE



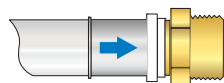
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16	ξ	8,810	6,310	6,140
	l/sec	0,113	0,226	0,339
20 x 20	ξ	2,200	2,150	1,620
	l/sec	0,201	0,402	0,603
26 x 26	ξ	1,600	1,500	1,470
	l/sec	0,314	0,628	0,942
32 x 32	ξ	0,600	0,600	0,600
	l/sec	0,531	1,062	1,593

RACCORDO DRITTO RIDOTTO
FLUSSO PASSANTE



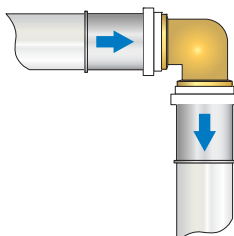
		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16	ξ	12,310	8,580	7,490
	l/sec	0,113	0,226	0,339
26 x 20	ξ	2,700	2,600	2,240
	l/sec	0,201	0,402	0,603
32 x 26	ξ	2,800	2,380	2,390
	l/sec	0,314	0,628	0,942

RACCORDO DRITTO MASCHIO
FLUSSO PASSANTE



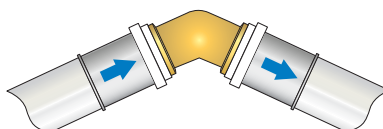
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 1/2"	ξ	11,810	9,860	8,030
	l/sec	0,113	0,226	0,339
20 x 3/4"	ξ	4,800	3,500	2,960
	l/sec	0,201	0,402	0,603
26 x 1"	ξ	3,400	2,350	2,400
	l/sec	0,314	0,628	0,942
32 x 1 1/4"	ξ	1,400	1,600	1,470
	l/sec	0,531	1,062	1,593

CURVA 90°



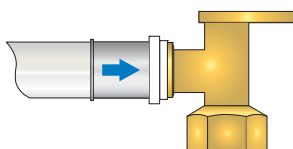
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16	ξ	21,820	17,370	14,730
	l/sec	0,113	0,226	0,339
20 x 20	ξ	10,410	7,560	6,980
	l/sec	0,201	0,302	0,603
26 x 26	ξ	7,810	6,260	6,540
	l/sec	0,314	0,628	0,942
32 x 32	ξ	4,000	4,300	4,180
	l/sec	0,531	1,062	1,593

CURVA 45°



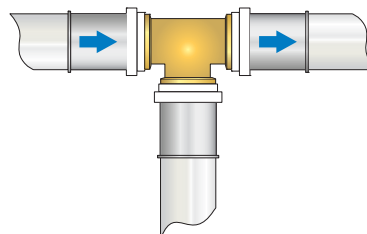
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16	ξ	3,200	2,550	2,650
	l/sec	0,314	0,628	0,942
20 x 20	ξ	1,600	1,550	1,560
	l/sec	0,531	1,062	1,593

ATTACCO A MURO°



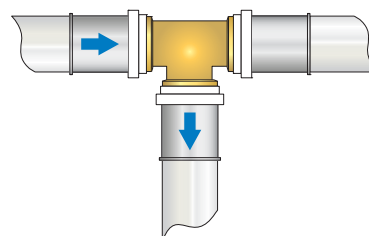
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16	ξ	26,830	20,170	16,170
	l/sec	0,113	0,226	0,339
20 x 20	ξ	12,410	9,710	9,030
	l/sec	0,201	0,402	0,603

RACCORDO A T
FLUSSO PASSANTE



		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16 x 16	ξ	12,210	7,060	6,360
	l/sec	0,113	0,226	0,339
20 x 20 x 20	ξ	3,200	2,350	2,180
	l/sec	0,201	0,402	0,603
26 x 26 x 26	ξ	2,000	1,500	1,670
	l/sec	0,314	0,628	0,942
32 x 32 x 32	ξ	1,000	1,000	0,870
	l/sec	0,531	1,062	1,593

RACCORDO A T
FLUSSO DERIVATO

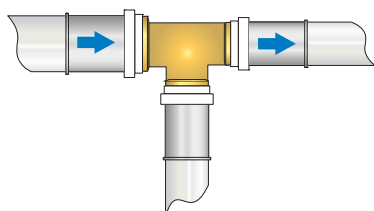


		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16 x 16	ξ	23,820	17,170	15,500
	l/sec	0,113	0,226	0,339
20 x 20 x 20	ξ	10,010	8,760	7,940
	l/sec	0,201	0,402	0,603
26 x 26 x 26	ξ	7,410	6,260	6,760
	l/sec	0,314	0,628	0,942
32 x 32 x 32	ξ	4,600	4,650	4,360
	l/sec	0,531	1,062	1,593



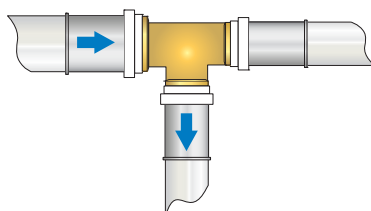
Valori del coefficiente di perdita localizzata ξ (csi) $t = 18^\circ\text{C}$, $\rho = 999 \text{ Kg/m}^3$

RACCORDO A T RIDOTTO
FLUSSO PASSANTE



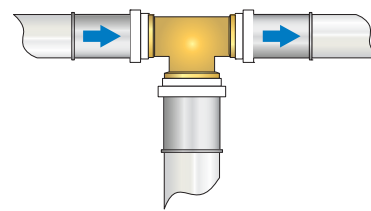
		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 16	ξ	14,710	11,440	8,800
	l/sec	0,113	0,226	0,339
20 x 20 x 16	ξ	12,110	11,090	8,860
	l/sec	0,113	0,226	0,339
26 x 16 x 20	ξ	3,500	2,800	2,320
	l/sec	0,201	0,402	0,603
26 x 20 x 16	ξ	11,110	8,430	7,440
	l/sec	0,113	0,226	0,339
26 x 20 x 20	ξ	4,100	2,650	2,210
	l/sec	0,201	0,402	0,603
26 x 26 x 16	ξ	11,51	8,480	7,330
	l/sec	0,113	0,226	0,339
26 x 26 x 20	ξ	3,500	2,700	2,390
	l/sec	0,201	0,402	0,603
32 x 20 x 26	ξ	3,200	2,680	2,810
	l/sec	0,314	0,628	0,942
32 x 32 x 20	ξ	4,800	3,930	3,340
	l/sec	0,201	0,402	0,603
32 x 32 x 26	ξ	3,400	2,580	2,550
	l/sec	0,314	0,628	0,942

RACCORDO A T RIDOTTO
FLUSSO DERIVATO



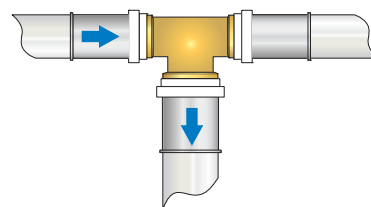
		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 16	ξ	14,510	13,04	10,870
	l/sec	0,113	0,226	0,339
20 x 20 x 16	ξ	9,410	8,360	7,790
	l/sec	0,201	0,402	0,603
26 x 16 x 20	ξ	14,710	11,990	10,420
	l/sec	0,113	0,226	0,339
26 x 20 x 16	ξ	6,710	6,010	5,310
	l/sec	0,201	0,402	0,603
26 x 20 x 20	ξ	7,110	5,760	5,150
	l/sec	0,201	0,402	0,603
26 x 26 x 16	ξ	8,010	7,360	7,500
	l/sec	0,314	0,628	0,942
26 x 26 x 20	ξ	8,010	6,760	7,070
	l/sec	0,314	0,628	0,942
32 x 20 x 26	ξ	6,610	5,330	4,520
	l/sec	0,201	0,402	0,603
32 x 32 x 20	ξ	4,800	5,960	6,090
	l/sec	0,531	1,062	1,593
32 x 32 x 26	ξ	4,800	5,110	5,050
	l/sec	0,531	1,062	1,593

RACCORDO A T ALLARGATO AL CENTRO
FLUSSO PASSANTE



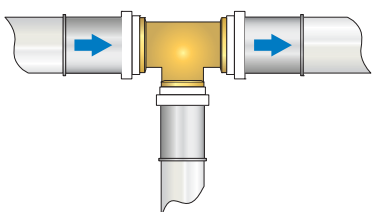
		1,0 m/s	2,0 m/s	3,0 m/s
16x20x16	ξ	10,210	7,410	6,940
	l/sec	0,113	0,226	0,339
20x26x20	ξ	3,800	2,850	2,540
	l/sec	0,201	0,402	0,603
26x32x26	ξ	2,800	2,600	2,380
	l/sec	0,314	0,628	0,942

RACCORDO A T ALLARGATO AL CENTRO
FLUSSO DERIVATO



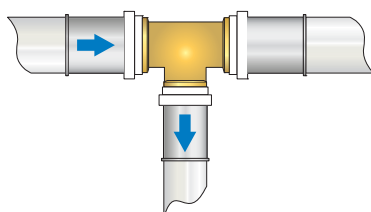
		1,0 m/s	2,0 m/s	3,0 m/s
16x20x16	ξ	14,91	10,590	10,070
	l/sec	0,113	0,226	0,339
20x26x20	ξ	5,710	5,160	4,530
	l/sec	0,201	0,402	0,603
26x32x26	ξ	5,610	4,780	4,730
	l/sec	0,314	0,628	0,942

RACCORDO A T RIDOTTO AL CENTRO
FLUSSO PASSANTE



		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 20	ξ	2,600	2,100	1,780
	l/sec	0,201	0,402	0,603
26 x 20 x 26	ξ	2,400	2,050	1,870
	l/sec	0,314	0,628	0,942
32 x 20 x 32	ξ	0,800	0,800	0,760
	l/sec	0,531	1,062	1,593

RACCORDO A T RIDOTTO AL CENTRO
FLUSSO DERIVATO



		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 20	ξ	14,910	11,94	11,270
	l/sec	0,113	0,226	0,339
26 x 20 x 26	ξ	7,910	5,860	5,280
	l/sec	0,201	0,402	0,603
32 x 20 x 32	ξ	5,610	4,930	4,290
	l/sec	0,201	0,402	0,603



COMISA S.P.A.
25055 PISOONE (BS) - ITALY
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TEL. + 39 0364.896811 - FAX +39 0364.896825 - www.comisa.it





PRESS SYSTEM

PRESS FITTINGS FOR MULTILAYER PIPE



TYPE OF PRODUCT

Brass press fittings

FUNCTION

Fittings for sanitary water supply system

Fittings for heating systems

SYSTEM

The Comisa Press EVO fittings form, alongside the Comisa multilayer pipe, the Comisa Press system. The compatibility of the fittings with multilayer pipes manufactured by others or of different type must be expressly approved by Comisa S.p.A. which, after executing its tests protocol, shall issue a guarantee certificate.

INSTRUCTIONS FOR USE

Use TH-profile pressing clamps with dimension suitable for the size of the fitting to be installed. Please follow the instructions provided by Comisa S.p.A. strictly.

PERFORMANCE

Maximum operating pressure	10 bars
Maximum operating temperature	95° C
Maximum peak temperature	110° C (1 hr)
Data refers to the Comisa Press system combined with Comisa multilayer pipe	

PRESS CONTROL

Press test to identify possible fittings not suitably pressurised to a maximum of 4.5 bars.

WARRANTY

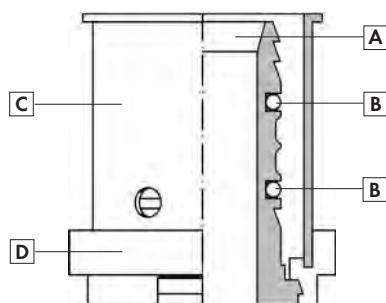
10 years in compliance with the law. Such warranty shall not be deemed valid in case:

- Installation is not carried out according to the installation instructions indicated in the Comisa S.p.A. publications
- The circuit is used for conveying liquids different from those indicated in the Comisa S.p.A. publications
- Liquids are introduced into the circuit at pressure and temperature values different from the respective restrictions indicated in the Comisa S.p.A. publications

CERTIFICATES

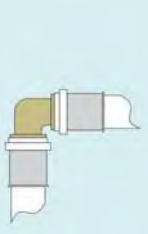
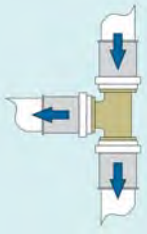
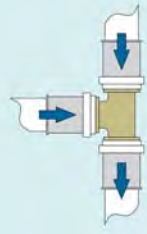
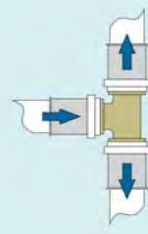
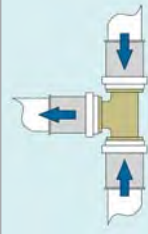
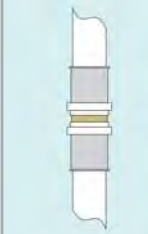
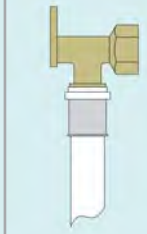
The Comisa Press system is certified by DVGW (n. DW-8501BO0049)

MATERIALS



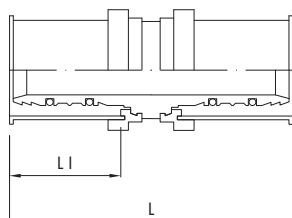
- A) **Body:** EN 12165 CW617N brass suitable for the passage of nutritional liquids intended for human consumption
- B) **O-Ring:** 2 O.R. made with EPDM-peroxide blend
- C) **Collar:** AISI 304 DIN EN 10088-2 stainless steel subjected to a solubilisation process
- D) **Clip ring:** made of PE-LD low density polyethylene. The profile of the clip further provides an accurate abutment for the TH clamp

TABLE FOR CALCULATING LOCALISED FRICTION LOSSES (EXPRESSED IN EQUIVALENT PIPE METRES)
EQUIVALENT LENGTHS

							
Ø 16 x 2,0	0,80	0,70	0,60	1,40	1,80	0,35	0,80
Ø 18 x 2,0	1,00	0,90	0,80	1,60	2,10	0,45	1,00
Ø 20 x 2,5	1,10	1,00	0,90	1,70	2,20	0,45	1,10
Ø 20 x 2,0	1,30	1,15	1,00	1,90	2,70	0,50	1,30
Ø 26 x 3,0	1,80	1,60	1,40	2,50	4,30	0,65	1,80
Ø 32 x 3,0	2,70	2,30	2,00	4,20	6,30	0,85	2,70
Ø 40 x 3,5	3,00	2,60	2,30	5,00	7,50	1,00	3,00
Ø 50 x 4,0	4,60	4,20	3,80	6,70	10,00	1,30	4,60



DIMENSIONS

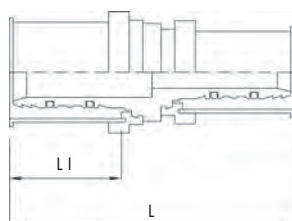


Size in mm	L	LI	Code
14 x 2	63	25	87.10.140
16 x 2	63	25	87.10.160
16 x 2,25	63	25	87.10.161
17 x 2	63	25	87.10.170
18 x 2	63	25	87.10.180
20 x 2	63	25	87.10.200
20 x 2,5	63	25	87.10.201
25 x 2,5	63	25	87.10.250
26 x 3	63	25	87.10.260
32 x 3	68	25	87.10.320
40 x 3,5	71	25	87.10.400
50 x 4	96	40	87.10.500
63 x 6	82	37	87.10.631

87.10



STRAIGHT COUPLING

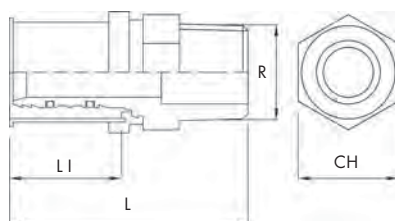


Size in mm	L	LI	Code
16 x 2 - 14 x 2	63	25	87.11.160
18 x 2 - 16 x 2	63	25	87.11.181
20 x 2 - 14 x 2	63	25	87.11.200
20 x 2 - 16 x 2	63	25	87.11.201
20 x 2 - 18 x 2	63	25	87.11.203
20 x 2,5 - 16 x 2	63	25	87.11.205
20 x 2,5 - 16 x 2,25	63	25	87.11.206
25 x 2,5 - 16 x 2	63	25	87.11.250
25 x 2,5 - 18 x 2	63	25	87.11.251
25 x 2,5 - 20 x 2	63	25	87.11.252
26 x 3 - 16 x 2	63	25	87.11.260
26 x 3 - 18 x 2	63	25	87.11.262
26 x 3 - 20 x 2	63	25	87.11.263
26 x 3 - 20 x 2,5	63	25	87.11.264
32 x 3 - 16 x 2	68	25	87.11.320
32 x 3 - 18 x 2	68	25	87.11.321
32 x 3 - 20 x 2	68	25	87.11.322
32 x 3 - 25 x 2,5	68	25	87.11.324
32 x 3 - 26 x 3	68	25	87.11.325
40 x 3,5 - 25 x 2,5	71	25	87.11.400
40 x 3,5 - 26 x 3	71	25	87.11.401
40 x 3,5 - 32 x 3	71	25	87.11.402
50 x 4 - 32 x 3	81	40 - 25	87.11.501
50 x 4 - 40 x 3,5	81	40 - 25	87.11.600
63 x 6 - 40 x 3,5	73	37 - 25	87.11.640
63 x 6 - 50 x 4	89	37 - 40	87.11.650

87.11



REDUCED STRAIGHT COUPLING



Size in mm	L	LI	R	CH	Code
14 x 2 - 1/2"	50	25	1/2"	22	87.12.140
16 x 2 - 1/2"	50	25	1/2"	22	87.12.160
16 x 2,25 - 1/2"	50	25	1/2"	22	87.12.161
18 x 2 - 1/2"	50	25	1/2"	22	87.12.180
18 x 2 - 3/4"	54	25	3/4"	27	87.12.181
20 x 2 - 1/2"	50	25	1/2"	22	87.12.200
20 x 2 - 3/4"	54	25	3/4"	27	87.12.201
20 x 2,5 - 1/2"	50	25	1/2"	22	87.12.202
20 x 2,5 - 3/4"	54	25	3/4"	27	87.12.203
25 x 2,5 - 3/4"	54	25	3/4"	37	87.12.250
25 x 2,5 - 1"	57	25	1"	34	87.12.251
26 x 3 - 1/2"	53	25	1/2"	27	87.12.255
26 x 3 - 3/4"	54	25	3/4"	27	87.12.260
26 x 3 - 1"	57	25	1"	34	87.12.261
32 x 3 - 1"	57	25	1"	34	87.12.320
32 x 3 - 1 1/4"	62	25	1 1/4"	43	87.12.321
40 x 3,5 - 1"	60	25	1"	43	87.12.400
40 x 3,5 - 1 1/4"	62	25	1 1/4"	43	87.12.401
50 x 4 - 1 1/4"	73	40	1 1/4"	50	87.12.500
50 x 4 - 1 1/2"	73	40	1 1/2"	50	87.12.501
63 x 6 - 2"	85	37	2"	60	87.12.631

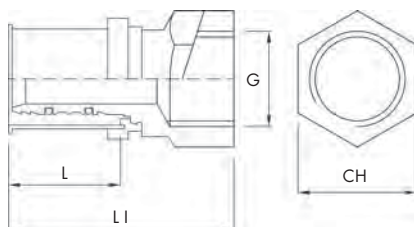
87.12



MALE STRAIGHT COUPLING



DIMENSIONS

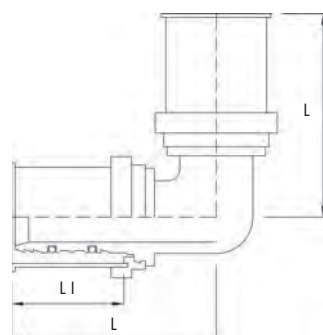


Size in mm	L	LI	G	CH	Code
14 x 2 - 1/2"	50	25	1/2"	25	87.13.140
16 x 2 - 1/2"	50	25	1/2"	25	87.13.160
16 x 2,25 - 1/2"	50	25	1/2"	25	87.13.161
18 x 2 - 1/2"	50	25	1/2"	25	87.13.180
18 x 2 - 3/4"	53	25	3/4"	30	87.13.181
20 x 2 - 1/2"	50	25	1/2"	25	87.13.200
20 x 2 - 3/4"	53	25	3/4"	30	87.13.201
20 x 2,5 - 1/2"	50	25	1/2"	25	87.13.202
20 x 2,5 - 3/4"	53	25	3/4"	30	87.13.203
25 x 2,5 - 3/4"	53	25	3/4"	30	87.13.250
25 x 2,5 - 1"	53	25	1"	38	87.13.251
26 x 3 - 3/4"	53	25	3/4"	30	87.13.260
26 x 3 - 1"	53	25	1"	38	87.13.261
32 x 3 - 1"	53	25	1"	38	87.13.320
32 x 3 - 1 1/4"	57	25	1 1/4"	50	87.13.321
40 x 3,5 - 1"	53	25	1"	43	87.13.400
40 x 3,5 - 1 1/4"	57	25	1 1/4"	50	87.13.401
40 x 3,5 - 1 1/2"	57	25	1 1/2"	50	87.13.405
50 x 4 - 1 1/4"	70	40	1 1/4"	50	87.13.500
50 x 4 - 1 1/2"	73	40	1 1/2"	50	87.13.501

87.13



FEMALE STRAIGHT COUPLING

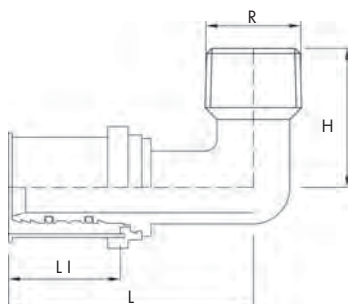


Size in mm	L	LI	Code
16 x 2	45	25	87.14.160
16 x 2,25	45	25	87.14.161
18 x 2	45	25	87.14.180
20 x 2	45	25	87.14.200
20 x 2,5	45	25	87.14.201
25 x 2,5	45	25	87.14.250
26 x 3	48	25	87.14.260
32 x 3	52	25	87.14.320
40 x 3,5	56	25	87.14.340
50 x 4	76	40	87.14.350
63 x 6	83	37	87.14.631

87.14



90° ELBOW

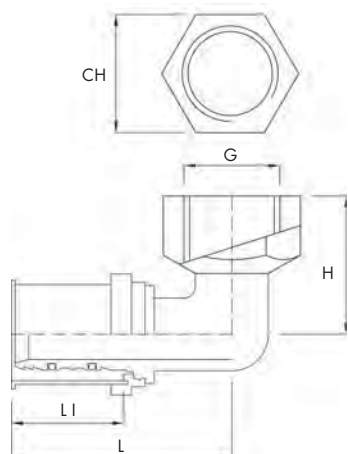


Size in mm	L	LI	H	R	Code
14 x 2 - 1/2"	54	25	31	1/2"	87.16.140
16 x 2 - 1/2"	47	25	29	1/2"	87.16.160
16 x 2,25 - 1/2"	47	25	29	1/2"	87.16.161
18 x 2 - 1/2"	54	25	31	1/2"	87.16.180
20 x 2 - 1/2"	54	25	31	1/2"	87.16.200
20 x 2 - 3/4"	49	25	34	3/4"	87.16.201
20 x 2,5 - 1/2"	54	25	31	1/2"	87.16.202
20 x 2,5 - 3/4"	49	25	34	3/4"	87.16.203
25 x 2,5 - 3/4"	49	25	39	3/4"	87.16.250
26 x 3 - 3/4"	49	25	39	3/4"	87.16.260
32 x 3 - 1"	52	25	43	1"	87.16.320
40 x 3,5 - 1 1/4"	55	25	54	1 1/4"	87.16.400
50 x 4 - 1 1/4"	76	40	61	1 1/4"	87.16.500
50 x 4 - 1 1/2"	76	40	61	1 1/2"	87.16.501

87.16



90° MALE ELBOW COUPLING



Size in mm	L	LI	H	G	CH	Code
14 x 2 - 1/2"	47	25	25	1/2"	25	87.17.140
16 x 2 - 1/2"	54	25	33	1/2"	\	87.17.159
16 x 2 - 1/2"	47	25	25	1/2"	25	87.17.160
16 x 2,25 - 1/2"	47	25	25	1/2"	25	87.17.161
18 x 2 - 1/2"	48	25	26	1/2"	26	87.17.180
18 x 2 - 3/4"	49	25	34	3/4"	31	87.17.181
20 x 2 - 1/2"	48	25	26	1/2"	26	87.17.200
20 x 2 - 3/4"	49	25	34	3/4"	31	87.17.201
20 x 2,5 - 1/2"	48	25	26	1/2"	26	87.17.202
20 x 2,5 - 3/4"	49	25	34	3/4"	31	87.17.203
25 x 2,5 - 3/4"	49	25	42	3/4"	31	87.17.250
26 x 3 - 3/4"	49	25	42	3/4"	31	87.17.260
32 x 3 - 1"	52	25	45	1"	38	87.17.320
40 x 3,5 - 1 1/4"	56	25	55	1 1/4"	47	87.17.400
50 x 4 - 1 1/4"	76	40	63	1 1/4"	\	87.17.500
50 x 4 - 1 1/2"	76	40	63	1 1/2"	\	87.17.501

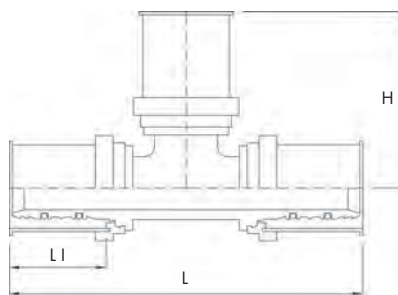
87.17



90° ELBOW



DIMENSIONS

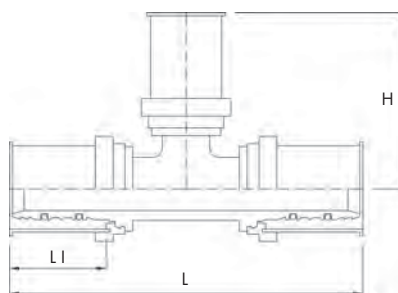


Size in mm	L	LI	H	Code
14 x 2	90	25	45	87.18.140
16 x 2	90	25	45	87.18.160
16 x 2,25	90	25	45	87.18.161
18 x 2	90	25	45	87.18.180
20 x 2	90	25	45	87.18.200
20 x 2,5	90	25	45	87.18.201
25 x 2,5	96	25	48	87.18.250
26 x 3	96	25	48	87.18.260
32 x 3	104	25	52	87.18.320
40 x 3,5	112	25	56	87.18.400
50 x 4	152	40	76	87.18.500
63 x 6	166	37	83	87.18.631

87.18



TEE COUPLING

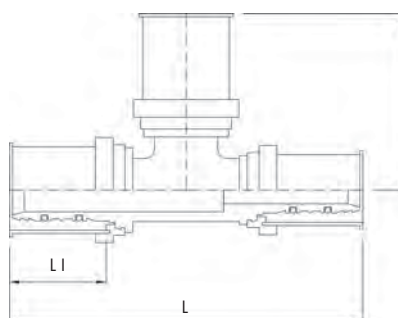


Size in mm	L	LI	H	Code
16 x 2 - 14 x 2 - 16 x 2	90	25	45	87.19.160
18 x 2 - 16 x 2 - 18 x 2	90	25	45	87.19.181
20 x 2 - 16 x 2 - 20 x 2	90	25	45	87.19.201
20 x 2 - 18 x 2 - 20 x 2	90	25	45	87.19.202
20 x 2,5 - 16 x 2 - 20 x 2,5	90	25	45	87.19.204
20 x 2,5 - 16 x 2,25 - 20 x 2,5	90	25	45	87.19.205
25 x 2,5 - 16 x 2 - 25 x 2,5	96	25	48	87.19.250
25 x 2,5 - 20 x 2 - 25 x 2,5	96	25	48	87.19.252
26 x 3 - 20 x 2,5 - 26 x 3	96	25	48	87.19.260
26 x 3 - 16 x 2 - 26 x 3	96	25	48	87.19.261
26 x 3 - 18 x 2 - 26 x 3	96	25	48	87.19.262
26 x 3 - 20 x 2 - 26 x 3	96	25	48	87.19.263
32 x 3 - 16 x 2 - 32 x 3	104	25	52	87.19.320
32 x 3 - 18 x 2 - 32 x 3	104	25	52	87.19.321
32 x 3 - 20 x 2 - 32 x 3	104	25	52	87.19.322
32 x 3 - 20 x 2,5 - 32 x 3	104	25	52	87.19.323
32 x 3 - 25 x 2,5 - 32 x 3	104	25	52	87.19.324
32 x 3 - 26 x 3 - 32 x 3	104	25	52	87.19.326
40 x 3,5 - 25 x 2,5 - 40 x 3,5	112	25	56	87.19.401
40 x 3,5 - 26 x 3 - 40 x 3,5	112	25	56	87.19.402
40 x 3,5 - 32 x 3 - 40 x 3,5	112	25	56	87.19.403
50 x 4 - 26 x 3 - 50 x 4	152	40	76	87.19.500
50 x 4 - 32 x 3 - 50 x 4	152	40	76	87.19.501
50 x 4 - 40 x 3,5 - 50 x 4	152	40	76	87.19.502

87.19



TEE REDUCED
MIDDLE SECTION



Size in mm	L	LI	H	Code
16 x 2 - 14 x 2 - 14 x 2	90	25	45	87.20.160
18 x 2 - 16 x 2 - 16 x 2	90	25	45	87.20.181
20 x 2 - 16 x 2 - 16 x 2	90	25	45	87.20.202
20 x 2 - 18 x 2 - 18 x 2	90	25	45	87.20.203
20 x 2 - 16 x 2 - 18 x 2	90	25	45	87.20.204
20 x 2 - 20 x 2 - 14 x 2	90	25	45	87.20.205
20 x 2 - 20 x 2 - 16 x 2	90	25	45	87.20.206
20 x 2,5 - 16 x 2 - 16 x 2	90	25	45	87.20.209
20 x 2,5 - 16 x 2,25 - 16 x 2,25	90	25	45	87.20.210
25 x 2,5 - 16 x 2 - 20 x 2	96	25	48	87.20.250
25 x 2,5 - 20 x 2 - 16 x 2	96	25	48	87.20.251
25 x 2,5 - 20 x 2 - 20 x 2	96	25	48	87.20.252
25 x 2,5 - 25 x 2,5 - 16 x 2	96	25	48	87.20.253
25 x 2,5 - 25 x 2,5 - 20 x 2	96	25	48	87.20.254
26 x 3 - 16 x 2 - 20 x 2	96	25	48	87.20.260
26 x 3 - 18 x 2 - 18 x 2	96	25	48	87.20.262
26 x 3 - 20 x 2 - 16 x 2	96	25	48	87.20.264
26 x 3 - 20 x 2 - 20 x 2	96	25	48	87.20.265
26 x 3 - 20 x 2,5 - 20 x 2,5	96	25	48	87.20.267
26 x 3 - 26 x 3 - 20 x 2,5	96	25	48	87.20.268
26 x 3 - 26 x 3 - 16 x 2	96	25	48	87.20.269
26 x 3 - 26 x 3 - 20 x 2	96	25	48	87.20.270
32 x 3 - 20 x 2 - 26 x 3	104	25	52	87.20.320
32 x 3 - 20 x 2,5 - 26 x 3	104	25	52	87.20.321
32 x 3 - 25 x 2,5 - 25 x 2,5	104	25	52	87.20.323
32 x 3 - 26 x 3 - 26 x 3	104	25	52	87.20.325
32 x 3 - 32 x 3 - 20 x 2	104	25	52	87.20.326
32 x 3 - 32 x 3 - 26 x 3	104	25	52	87.20.329
40 x 3,5 - 32 x 3 - 32 x 3	112	25	56	87.20.400
40 x 3,5 - 26 x 3 - 32 x 3	112	25	56	87.20.403
40 x 3,5 - 40 x 3,5 - 26 x 3	112	25	56	87.20.404
40 x 3,5 - 40 x 3,5 - 32 x 3	112	25	56	87.20.405
50 x 4 - 40 x 3,5 - 40 x 3,5	139	40	76	87.20.500
50 x 4 - 32 x 3 - 40 x 3,5	139	40	76	87.20.501
50 x 4 - 50 x 4 - 32 x 3	139	40	76	87.20.502
50 x 4 - 50 x 4 - 40 x 3,5	139	40	76	87.20.503

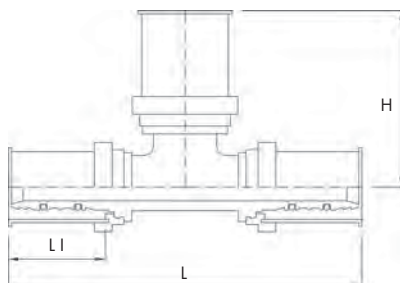
87.20



REDUCED TEE
COUPLING



DIMENSIONS

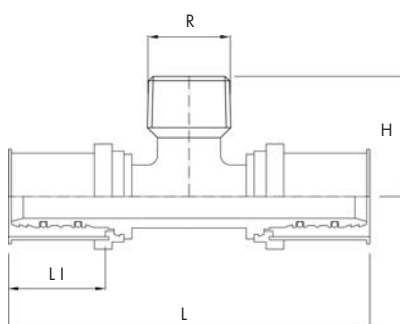


Size in mm	L	LI	H	Code
14 x 2 - 16 x 2 - 14 x 2	90	25	45	87.21.140
16 x 2 - 18 x 2 - 16 x 2	90	25	45	87.21.160
16 x 2 - 20 x 2 - 16 x 2	90	25	45	87.21.161
16 x 2 - 20 x 2,5 - 16 x 2	90	25	45	87.21.162
16 x 2,25 - 20 x 2,5 - 16 x 2,25	90	25	45	87.21.163
20 x 2 - 25 x 2,5 - 20 x 2	96	25	48	87.21.200
20 x 2 - 26 x 3 - 20 x 2	96	25	48	87.21.201
20 x 2,5 - 26 x 3 - 20 x 2,5	96	25	48	87.21.202
25 x 2,5 - 32 x 3 - 25 x 2,5	104	25	52	87.21.250
26 x 3 - 32 x 3 - 26 x 3	104	25	52	87.21.260

87.21



TEE ENLARGED
MIDDLE SECTION

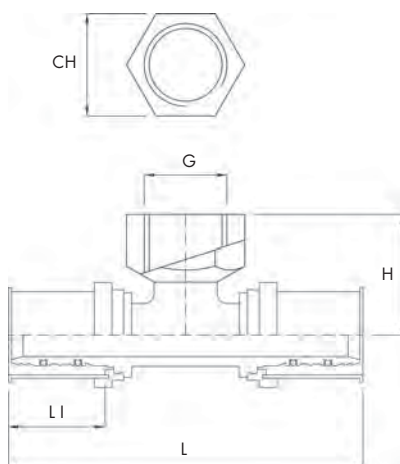


Size in mm	L	LI	H	R	Code
16 x 2 - 1/2" - 16 x 2	92	25	29	1/2"	87.22.160
16 x 2,25 - 1/2" - 16 x 2,25	92	25	29	1/2"	87.22.161
18 x 2 - 1/2" - 18 x 2	92	25	32	1/2"	87.22.180
20 x 2 - 1/2" - 20 x 2	92	25	32	1/2"	87.22.200
20 x 2 - 3/4" - 20 x 2	98	25	36	3/4"	87.22.201
20 x 2,5 - 1/2" - 20 x 2,5	92	25	32	1/2"	87.22.202
25 x 2,5 - 3/4" - 25 x 2,5	98	25	36	3/4"	87.22.251
25 x 2,5 - 1" - 25 x 2,5	104	25	40	1"	87.22.252
26 x 3 - 1/2" - 26 x 3	98	25	33	1/2"	87.22.260
26 x 3 - 3/4" - 26 x 3	98	25	36	3/4"	87.22.261
26 x 3 - 1" - 26 x 3	104	25	40	1"	87.22.262
32 x 3 - 3/4" - 32 x 3	104	25	38	3/4"	87.22.320
32 x 3 - 1" - 32 x 3	104	25	40	1"	87.22.321
40 x 3,5 - 1" - 40 x 3,5	112	25	45	1"	87.22.400
50 x 4 - 1 1/4" - 50 x 4	152	40	61	1 1/4"	87.22.500
50 x 4 - 1 1/2" - 50 x 4	152	40	61	1 1/2"	87.22.501

87.22



MALE TEE
COUPLING



Size in mm	L	LI	H	G	CH	Code
116 x 2 - 1/2" - 16 x 2	92	25	33	1/2"	25	87.23.160
16 x 2,25 - 1/2" - 16 x 2,25	92	25	33	1/2"	25	87.23.161
18 x 2 - 1/2" - 18 x 2	92	25	35	1/2"	25	87.23.180
18 x 2 - 3/4" - 18 x 2	98	25	42	3/4"	31	87.23.181
20 x 2 - 1/2" - 20 x 2	92	25	35	1/2"	25	87.23.200
20 x 2 - 3/4" - 20 x 2	98	25	42	3/4"	31	87.23.201
20 x 2,5 - 1/2" - 20 x 2,5	92	25	35	1/2"	25	87.23.202
20 x 2,5 - 3/4" - 20 x 2,5	98	25	42	3/4"	31	87.23.203
25 x 2,5 - 1/2" - 25 x 2,5	92	25	35	1/2"	25	87.23.250
25 x 2,5 - 3/4" - 25 x 2,5	98	25	42	3/4"	31	87.23.252
26 x 3 - 1/2" - 26 x 3	94	25	37	1/2"	25	87.23.260
26 x 3 - 1/2" - 20 x 2	94	25	37	1/2"	25	87.23.261
26 x 3 - 3/4" - 26 x 3	98	25	42	3/4"	31	87.23.263
32 x 3 - 1/2" - 32 x 3	104	25	45	1/2"	38	87.23.320
32 x 3 - 3/4" - 32 x 3	104	25	45	1/2"	38	87.23.321
32 x 3 - 1" - 32 x 3	104	25	45	1/2"	38	87.23.322
32 x 3 - 1 1/4" - 32 x 3	112	25	55	1 1/4"	47	87.23.323
40 x 3,5 - 1" - 40 x 3,5	112	25	55	1 1/4"	47	87.23.400
40 x 3,5 - 1 1/4" - 40 x 3,5	112	25	55	1 1/4"	47	87.23.401
50 x 4 - 1 1/4" - 50 x 4	152	40	63	1 1/4"	\	87.23.500
50 x 4 - 1 1/2" - 50 x 4	152	40	63	1 1/2"	\	87.23.501
63 x 6 - 1" - 63 x 6	156	37	59	1"	\	87.23.631
63 x 6 - 1 1/2" - 63 x 6	156	37	59	1 1/2"	\	87.23.632

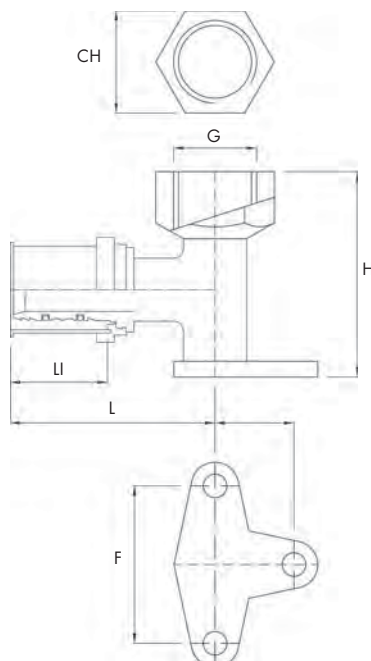
87.23



FEMALE TEE
COUPLING



DIMENSIONS



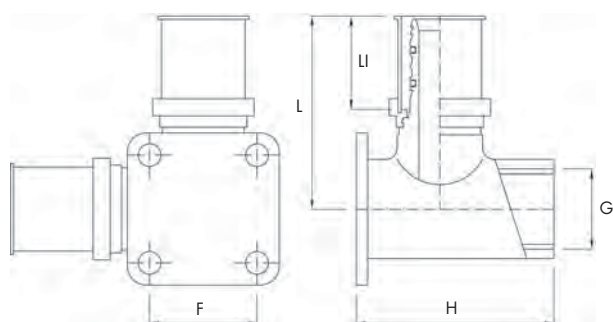
Misure mm	L	LI	H	G	CH	F	Codice
14 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.140
16 x 2 - 3/8"	47	25	39	3/8"	25	40	87.24.145
16 x 2,25 - 1/2"	47	25	39	1/2"	25	40	87.24.159
16 x 2 - 1/2"	47	25	39	1/2"	25	40	87.24.160
16 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.161
18 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.180
20 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.200
20 x 2 - 3/4"	52	25	52	3/4"	30	40	87.24.201
20 x 2,5 - 1/2"	52	25	52	1/2"	26	40	87.24.202
20 x 2,5 - 3/4"	52	25	52	3/4"	30	40	87.24.203
25 x 2,5 - 3/4"	52	25	52	3/4"	30	40	87.24.250
26 x 3 - 3/4"	52	25	52	3/4"	30	40	87.24.260

87.24



WALLPLATE FEMALE
ELBOW COUPLING

Misure mm	L	LI	H	G	F	Codice
16 x 2 - 1/2" - 16 x 2	51	25	52	1/2"	28	87.25.160
16 x 2,25 - 1/2" - 16 x 2,25	51	25	52	1/2"	28	87.25.161
18 x 2 - 1/2" - 18 x 2	51	25	52	1/2"	28	87.25.180
20 x 2 - 1/2" - 20 x 2	51	25	52	1/2"	28	87.25.200

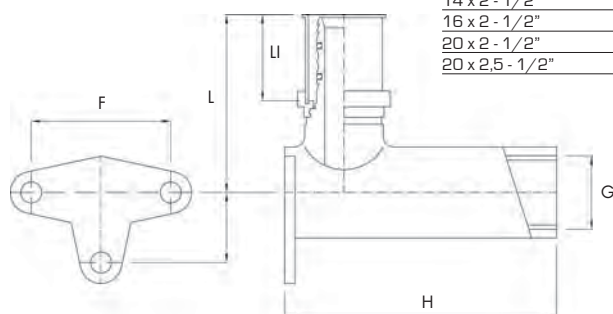


87.25



DOUBLE SHORT
WALLPLATE FEMALE
COUPLING

Misure mm	L	LI	H	G	F	Codice
14 x 2 - 1/2"	51	25	78	1/2"	40	87.26.140
16 x 2 - 1/2"	51	25	78	1/2"	40	87.26.160
20 x 2 - 1/2"	51	25	78	1/2"	40	87.26.200
20 x 2,5 - 1/2"	51	25	78	1/2"	40	87.26.201



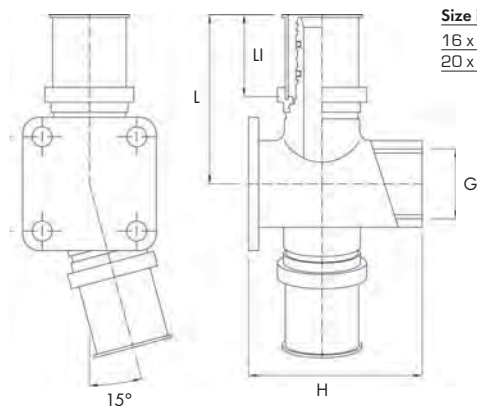
87.26



DOUBLE SHORT
WALLPLATE FEMALE
COUPLING



DIMENSIONS

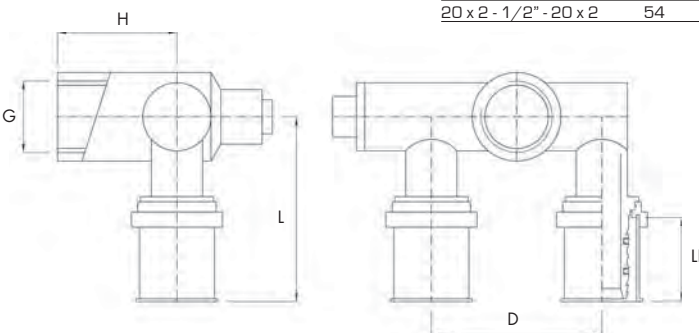


Size in mm	L	LI	H	G	Code
16 x 2 - 1/2" F - 16 x 2 h 52 mm	51	25	52	1/2"	87.26.205
20 x 2 - 1/2" F - 20 x 2 h 52 mm	51	25	52	1/2"	87.26.210

87.26



WALLPLATE ELBOW
FOR SERIES
CONNECTIONS

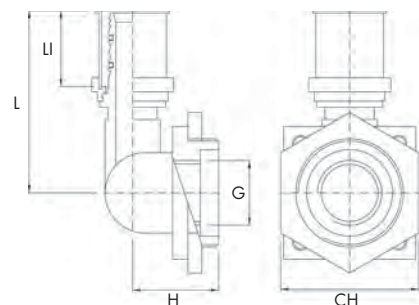


Size in mm	L	LI	H	G	D	Code
16 x 2 - 1/2" - 16 x 2	54	25	35	1/2"	50	87.27.160
20 x 2 - 1/2" - 20 x 2	54	25	35	1/2"	50	87.27.200

87.27



U-SHAPED WALL
COUPLING

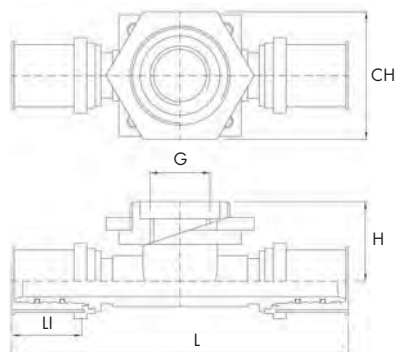


Size in mm	L	LI	H	G	CH	Code
16 x 2 - 1/2"	59	25	28	1/2"	45	87.28.160
18 x 2 - 1/2"	59	25	28	1/2"	45	87.28.180
20 x 2 - 1/2"	59	25	28	1/2"	45	87.28.200

87.28



ELBOW COUPLING
FOR WC CISTERN



Size in mm	L	LI	H	G	CH	Code
16 x 2 - 1/2" - 16 x 2	118	25	28	1/2"	45	87.29.160
20 x 2 - 1/2" - 20 x 2	118	25	28	1/2"	45	87.29.200

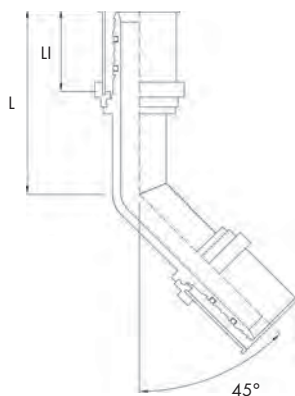
87.29



T-SHAPED ELBOW
COUPLING
FOR WC CISTERN



DIMENSIONS

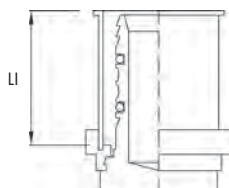


Size in mm	L	LI	Code
25 x 2,5	56	25	87.30.250
26 x 3	56	25	87.30.260
32 x 3	56	25	87.30.320
40 x 3,5	56	25	87.30.400
50 x 4	77	40	87.30.500

87.30



45° ELBOW

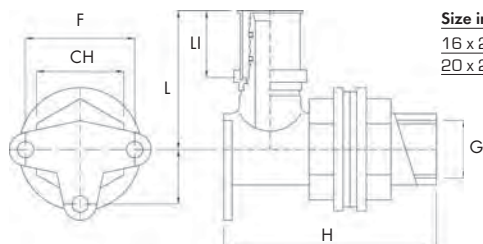


Size in mm	LI	Code
14 x 2	25	87.31.140
16 x 2	25	87.31.160
18 x 2	25	87.31.180
20 x 2	25	87.31.200
25 x 2,5	25	87.31.250
26 x 3	25	87.31.260
32 x 3	25	87.31.320
40 x 3,5	25	87.31.400
50 x 4	40	87.31.500

87.31



PRESSURE
BLIND PLUGS

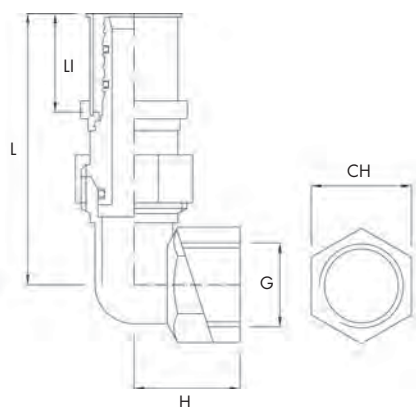


Size in mm	L	LI	H	G	CH	F	Code
16 x 2	51	25	78	1/2	30	40	87.33.105
20 x 2	51	25	78	1/2	30	40	87.33.115

87.33



3/4" M x 1/2" F
FLANGED ELBOW
FOR WC CISTERN



Size in mm	L	LI	H	G	CH	Code
16 x 2 - 1/2"	68	25	27	1/2"	25	87.35.160
18 x 2 - 1/2"	68	25	27	1/2"	25	87.35.180
20 x 2 - 1/2"	68	25	27	1/2"	25	87.35.200
20 x 2 - 3/4"	68	25	30	3/4"	31	87.35.201

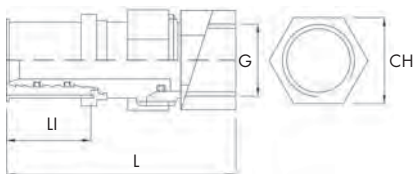
87.35



90° FEMALE
ELBOW FITTING



DIMENSIONS



Size in mm	L	LI	G	CH	Code
16 x 2 - 1/2"	67	25	1/2"	26	87.36.160
16 x 2 - 3/4"	72	25	3/4"	31	87.36.161
20 x 2 - 1/2"	67	25	1/2"	26	87.36.200
20 x 2 - 3/4"	72	25	3/4"	31	87.36.201
26 x 3 - 3/4"	73	25	3/4"	38	87.36.260
26 x 3 - 1"	73	25	1"	38	87.36.261
32 x 3 - 1"	86	25	1"	38	87.36.320

87.36



FEMALE FITTING
WITH FLAT SEAL

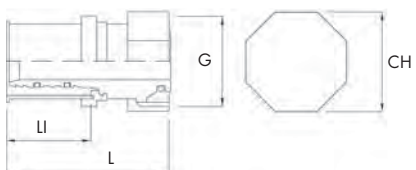


Size in mm	L	LI	G	CH	Code
16 x 2 - 1/2"	73	25	1/2"	26	87.37.160
16 x 2 - 3/4"	74	25	3/4"	27	87.37.161
20 x 2 - 1/2"	73	25	1/2"	26	87.37.200
20 x 2 - 3/4"	74	25	3/4"	27	87.37.201
26 x 3 - 3/4"	67	25	3/4"	33	87.37.260
26 x 3 - 1"	71	25	1"	33	87.37.261
32 x 3 - 1"	85	25	1"	33	87.37.320

87.37



MALE FITTING
WITH CONICAL SEAL



Size in mm	L	LI	G	CH	Codice
16 x 2 - 3/4"	48	25	3/4"	30	87.39.160
18 x 2 - 3/4"	48	25	3/4"	30	87.39.180
20 x 2 - 3/4"	48	25	3/4"	30	87.39.200
26 x 3 - 1"	44	25	1"		87.39.260
25 x 2,5 - 1"	44	25	1"		87.39.261

87.39



FITTING WITH YELLOW
EUROKONO SEAL

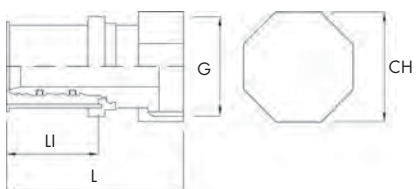


Misure mm	L	LI	G	CH	Code
16 x 2 - 3/4"	48	25	34	30	87.40.160
20 x 2 - 3/4"	48	25	34	30	87.40.200

87.40



FITTING NICKEL-PLATED
EUROKONO SEAL



Size in mm	L	LI	G	CH	Code
16 x 2 - 1/2"	52	25	1/2"	24	87.42.150
16 x 2 - 3/4"	48	25	3/4"	30	87.42.160
18 x 2 - 3/4"	48	25	3/4"	30	87.42.180
20 x 2 - 3/4"	48	25	3/4"	30	87.42.200
26 x 3 - 1"	45	25	1"	37	87.42.260

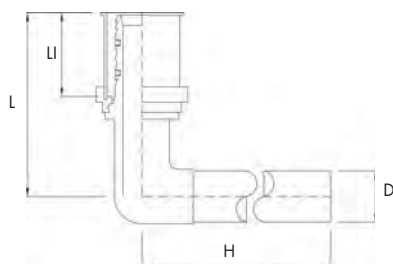
87.42



FITTING
WITH FLAT SEAL



DIMENSIONS

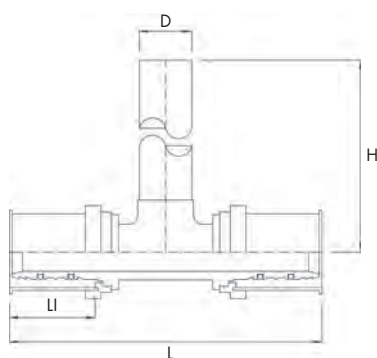


Size in mm	L	LI	H	D	Code
14 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.140
16 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.160
16 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.161
18 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.180
18 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.181
20 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.200
20 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.201

87.45



ELBOW CONNECTOR
FOR RADIATORS NP

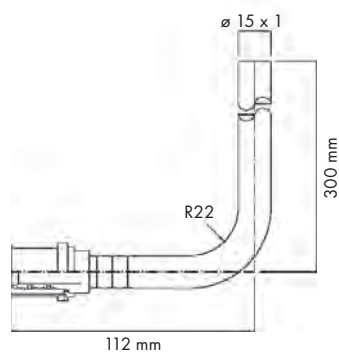


Size in mm	L	LI	H	D	Code
14 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.140
14 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.141
16 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.160
16 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.161
18 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.180
18 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.181
20 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.200
20 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.201

87.46



TEE CONNECTOR
FOR RADIATORS NP

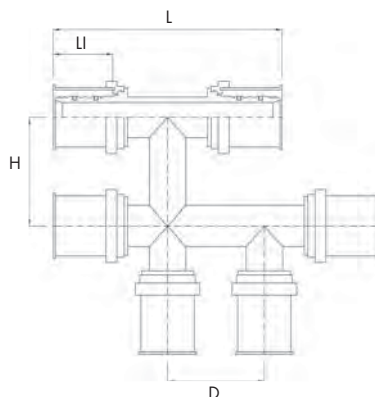


Size in mm	Code
18 x 2 - 15 mm	87.45.185

87.45



ELBOW CONNECTOR
FOR RADIATORS
WITH COPPER PYPE



Size in mm	L	LI	H	D	Code
16 x 16 x 16	95	25	40	40	87.49.010
20 x 16 x 16	95	25	40	40	87.49.015
20 x 16 x 20	95	25	40	40	87.49.020
20 x 20 x 20	95	25	40	40	87.49.025

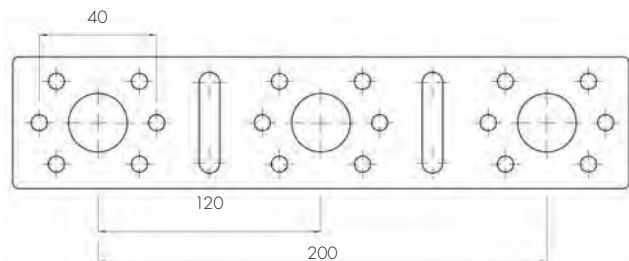
87.49



T BYPASS

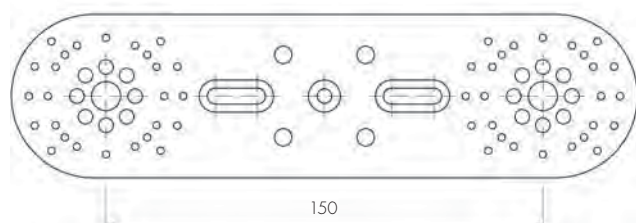


DIMENSIONS



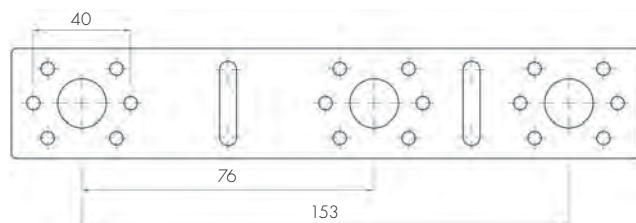
87.49.600

ZINC-PLATED SHEET
FIXING PLATE COMPLETE
WITH 4 SCREWS



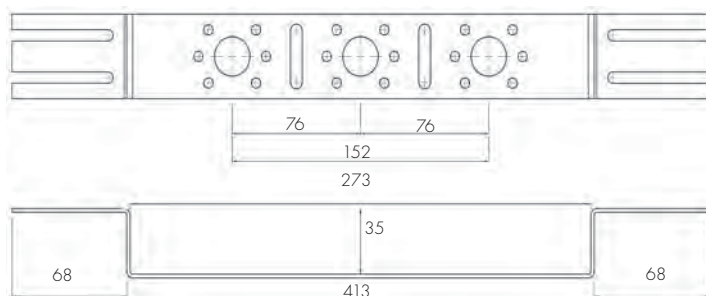
87.49.601

WHITE PLASTIC SHEET
FIXING PLATE COMPLETE
WITH 4 SCREWS



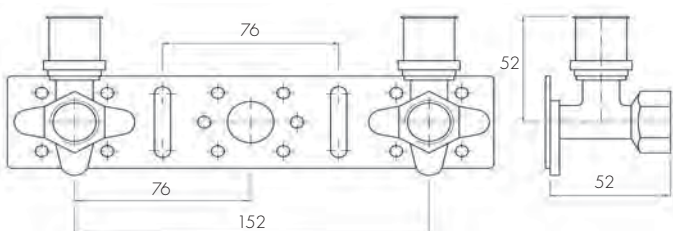
87.49.605

ZINC-PLATED SHEET
FIXING PLATE COMPLETE
WITH 4 SCREWS



87.49.610

ZINC-PLATED SHEET
BUILT-IN FIXING PLATE
FOR WALL-MOUNTING
H 39 mm

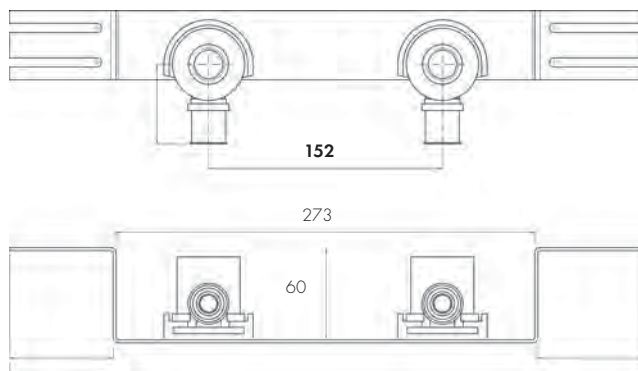


87.54.005

PLATE KIT WITH 2
FEMALE ELBOW JOINTS
MOUNTED FLANGED 16
X 1/2" H 52 mm

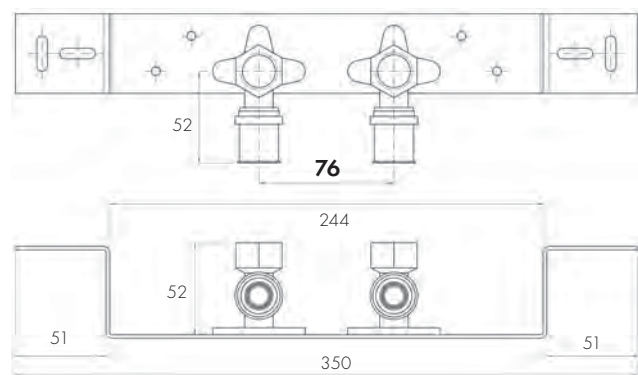


DIMENSIONS



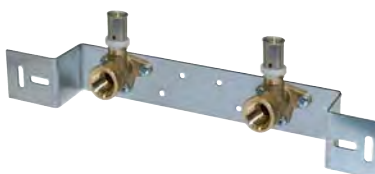
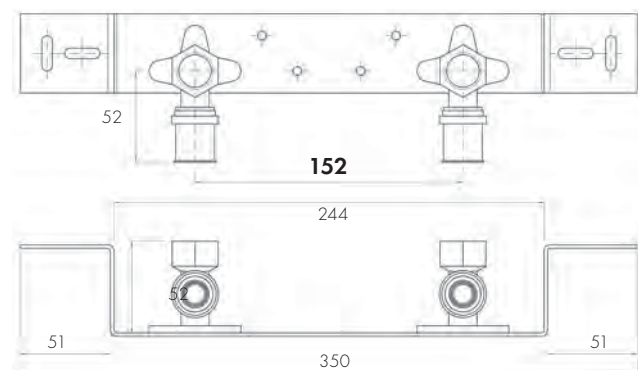
87.54.030

PLATE KIT
WITH 2 MOUNTED
INSULATED WALL
COUPLINGS
16 x 1" H 52 mm



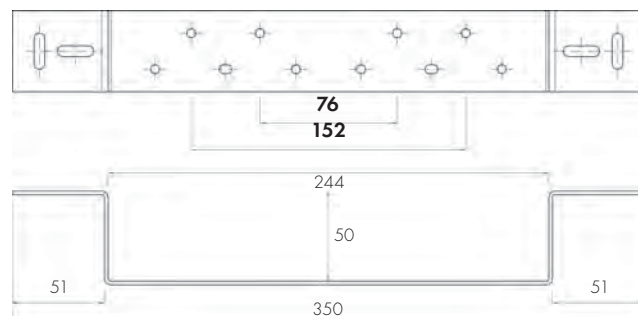
87.54.060

SANITARY PLATE
MOUNTED WITH 2
FLANGED FEMALE EL-
BOW COUPLINGS
1/2" F 16 x 2 PITCH
76 mm



87.54.065

SANITARY PLATE
MOUNTED
WITH 2 FLANGED
FEMALE ELBOW
COUPLINGS
1/2" F 16 x 2 PITCH
152 mm



87.54.075

SANITARY PLATE
75 - 152 mm PITCH
COMPLETE WITH
6 SCREWS
+ 6 MOUNTING NUTS



LAYING INSTRUCTIONS



Cutting

Cut to the end of the pipe intended to be fitted to the desired length using a special tool.



Calibrating

Fit the calibrating device of the suitable size into the pipe. Rotate the device pressing it slightly in such a manner to obtain the end of the pipe free of residual burrs after cutting and with an initial bevel that will allow the fitting to be easily inserted into the pipe. Furthermore, the calibrated part of the pipe shall have a constant and ideal diameter to suit the fitting.

WARNING: proper calibration of the pipe is of key importance for a proper implementation of the system. For such purpose, strictly use chip removal calibrators. Calibrators for PEX pipe are not suitable.



Insertion-Mounting

Inserting the fitting: Apply suitable pressure to insert the fitting into the pipe. Check whether the elements are positioned in an ideal manner: the three inspection holes of the stainless steel collar must reveal the presence of the white pipe.

WARNING: Do not apply any type of abrasive paste, adhesive or lubricant onto the joint otherwise the joint would be jeopardised.



Pressing

Tightening the joint: Use suitable pressing device, provided with a suitable clamp in terms of size and type of fitting, close the obtained joint until the clamp is entirely tightened.



Check

Check whether the fitting is pressed properly.

Quick to install

Comisa Press Evo fittings are perfectly installable within a few operations that may be performed even by non-skilled personnel. All that is required is to follow our instructions and have the required tools. Hence, both saving time and results are guaranteed.

Practical use

Our fittings are instantly ready for installation without requiring of the plumber to perform any mounting operations. The packaged fittings come already entirely pre-mounted. The plastic clip that implements the collar ensured proper positioning of the TH tightening clamp. The few operations required for installing, the wide range of drawings and the measurements provided ensure the practicality of the **Comisa Press Evo** fittings in use.

Entirely safe

The Press Control system the Comisa Press Evo fittings are provided with allows identifying possible unpressed joints. During the step of testing the system, with test pressure up to 4.5 bars, the Comisa Press Evo fittings allow immediate leakage hence identification of the fitting requiring attention. Comisa Press Evo fittings are the sole ones to have obtained the approval of this characteristic by the DVGW (the German Technical Association for Gas and Water).

Versatile

Comisa has developed its own Evo series fittings for coupling with TH clamps. However, **Comisa Press Evo** fittings may also be pressed using other profiles, whose compatibility therewith has been tested.

CLAMP COMPATIBILITY

The DVGW N. DW-8501BO0049 certified Comisa Press Evo system is made up of:

- **Comisa Press Evo fittings**
- **COMISA multilayer pipe**
- **TH-profile clamp**

Comisa guarantees the compatibility of **B** or **H**-profile clamps, for some specific diameters, solely if used with Comisa Evo Press system that conceived to use the abovementioned components.

Profile of clamps to be used with Comisa Press EVO fittings

TH
14
16
18
20
25
26
32
40
50
63



Compatibility with H-B clamps

H	B
14	14
16	16
18	18
20	20
26	26
32	32



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25055 PISOONE (BS) - ITALY
LOCALITÀ NEZIOLE - ZONA ARTIGIANALE, 27
TEL. + 39 0364.896811 - FAX +39 0364.896825 - www.comisa.it





PRESSFITTINGE

Pressfittinge



DW-8501BO0049

Das Pressfittingssystem **Comisa** wird ausschließlich von **COMISA SPA** entwickelt, geprüft und produziert mit dem Ziel, Zweckmäßigkeit, Schnelligkeit und absolute Sicherheit bei der Montage zu vereinen. Dies wird dank der **Press Kontrolle** "dicht/undicht" erreicht, die eine sofortige Kontrolle der Verpressung nach dem Einbau ermöglicht.

Der Verarbeiter erhält in wenigen Arbeitsschritten eine dichte und dauerhafte Verbindung. **Comisa Presssystem** kommt üblicherweise bei unter Putz liegenden Sanitär- und Heizungsanlagen zum Einsatz.

Das System besteht aus:

- einem **Messingkörper** EN 12165 CW 617 N / EN 12164 CW 617 N - Bestandteil, der die Form des Fittings bestimmt, Winkel, T-Stück, Anschlussstück oder andere.

Technische Zeichnungen zeigen die Charakteristik des **Comisa Presssystems** auf und kennzeichnen das Projekt. Unter konstanter Überwachung der Qualität bewegen sich die Bearbeitungstoleranzen in einem engen Rahmen.

- **2 O-Ringe** in der speziellen Zusammensetzung von EPDM (Ethyl-Propylen-Dien-Kautschuk) - Peroxyd: Für den Fitting sind 2 O-Ringe vorgesehen, deren Durchmesser sich an den unterschiedlichen Maßen der Pressverbinder orientiert. Ihre Funktion, die thermische Ausdehnung des Rohrs auszugleichen und somit eine perfekte Dichtigkeit sowohl beim Durchfluss von Warm- als auch Kaltwasser zu garantieren.

- einer **Hülse aus Edelstahl** AISI 304 DIN EN 10088-2, Komponente, auf die die Pressbacke ihren Druck ausübt. Nach der Verpressung behält die Edelstahlhülse ihre erworbene Form, weder eine sofortige noch eine nachfolgende Veränderung ist möglich. Um die Irreversibilität der Verformung zu garantieren, wird die Hülse im Vorfeld dem Solubilisation Verfahren unterzogen.

- einem **transparenten Kunststoffring**, dieser ermöglicht die Verbindung der Edelstahlhülse mit dem Messingkörper und bewirkt gleichzeitig die Trennung zwischen Rohr und Fittingkörper - die Gefahr einer elektrolytischen Reaktion ist ausgeschlossen. Tatsächlich kommt die Aluminiumschicht des Rohres nie mit dem Fitting in Kontakt, da der Aufbau des Fittingkörpers automatisch einen Rohrstopp vorsieht, der dies verhindert. Die Form des Kunststoffrings garantiert darüber hinaus die eindeutige Positionierung der TH-Pressbacke.

PRESSPROFIL IM EINSATZ MIT COMISA PRESS FITTINGS



TH
14
16
18
20
25
26
32
40
50
63

KOMPATIBILITÄT MIT PRESSBACKEN H - B

H	B
14	14
16	16
18	18
20	20
26	26
32	32

ACHTUNG: SERIE COMISA PRESS

Unkontrollierbare Angebote an Mehrschichtverbundrohr oder Pressfittinge auf dem Markt veranlassen uns, zum Schutz unserer eigenen Kunden, nachfolgende Erklärung abzugeben:

MIT COMISA PRESS

Das System **COMISA PRESS**, DVGW Zulassung

DW-8501BO0049 besteht aus:

- **Fittings COMISA PRESS**
- **Mehrschichtverbundrohr COMISA**
- **Pressprofil TH**

Comisa SpA garantiert die Kompatibilität der Press-profile H und B nur in Verbindung mit den eigenen Systemkomponenten. Bei Einsatz von Rohr oder Formteilen anderer Hersteller bzw. fremder Herkunft **kann eine Kompatibilität nur nach vorheriger Absprache und Genehmigung seitens Comisa gegeben werden.** Eine von Werkseite ausgestellte Garantie gewährleistet den positiven Ausgang der durchgeführten Kontrolltests.

ACHTUNG: Wir weisen auf die hohe Bedeutung einer korrekten und fachgerechten Kalibrierung und Entgratung (Entfernen von Spänen) mittels eines geeigneten Werkzeuges hin. Kalibrierer für PEX - Rohre sind für ein Mehrschichtverbundrohr nicht geeignet.

Pressfittinge



DW-8501B00049

INSTALLATIONSANWEISUNGEN



Ablängen des Rohres

Nach dem Abmessen mittels eines geeigneten Rohrabschneiders auf das erforderliche Maß schneiden.



Kalibrierung und Entgraten des Rohres

Die Rohrenden sind nach dem Abschneiden zu kalibrieren und innen sorgfältig zu entgraten, um die Verbindung zu erleichtern und eine Beschädigung der Dichtringe beim Einführen des Fittings in das Rohr zu vermeiden. Unter leichtem Druck und einer Drehung des Kalibriers erhalten Sie eine saubere Schrägkante, die das Einführen des Rohres in den Fitting erleichtert. Rohr und Fitting gehen nun in ihren Abmessungen vollständig konform.



Montage.

Schieben Sie den Fitting mit angemessenem Druck und in axialer Richtung bis zum Anschlag auf das kalibrierte Rohrende. Die korrekte Einschubtiefe ist durch die drei Kontrollfenster der Edelstahlpresshülse zu erkennen.

ACHTUNG: Öle, Fette, Schleifpaste oder Klebmittel als Gleitmittel dürfen nicht verwendet werden. Diese könnten der Effektivität der Verbindung schaden.



Verpressung /Beenden des Pressvorgangs

Mittels geeignetem Presswerkzeug und einer je nach Abmessung maßkonformen Pressbacke führen Sie den Pressvorgang solange durch, bis sich die Pressbacke vollständig geschlossen hat und der Pressvorgang beendet ist.



Kontrolle

Überprüfung der korrekten Verpressung.

Montagegeschwindigkeit

Comisa Presssystem lässt sich hervorragend in wenigen Arbeitsschritten verarbeiten, was auch von weniger erfahrenen Arbeitskräften durchgeführt werden kann. Es genügt, die entsprechenden Anweisungen zu befolgen und das passende Werkzeug einzusetzen. Die Zeitersparnis ist ebenso garantiert wie das Resultat.

Unsere Fittings können sofort montiert werden, ohne dass der Installateur noch irgendwelche Vorarbeiten zu leisten hat; der Fitting ist in der Verpackung schon vollständig vormontiert. Der Kunststoffring, der die Hülse trägt, sorgt für die korrekte Positionierung der Pressbacke Profil TH.

Wenige Montageschritte und die breite Auswahl an Formteilen bei **Comisa Presssystem** garantieren unseren Kunden die Sicherheit eines hochwertigen und praktischen Installationssystems.

Zertifizierte Sicherheit

Durch das **Press Control System**, mit dem Comisa Press Fittings ausgestattet sind, ist es möglich, eventuell vorhandene unverpresste Verbindungen aufzuspüren. Während des Testlaufs der Anlage bei einem Prüfdruck von bis zu 4,5 bar werden mögliche Undichtigkeiten sofort lokalisiert und anschließend verpresst. Dieses charakteristische Merkmal wurde vom DVGW in die bestehende Zertifizierung der Fittings aufgenommen.

Vielseitigkeit

Das **Comisa Presssystem** wurde für die Verbindung mit Pressbacken vom Typ TH konzipiert. Es ist jedoch möglich weitere Profile zu verwenden, die auf ihre Kompatibilität hin getestet wurden.

PRESSPROFIL

TH



Pressfittings



DW-8501BO0049

PRODUKT

Pressfittings aus Messing

ANWENDUNGSBEREICH

Heizungstechnik
Sanitärtechnik

DAS SYSTEM

Das zertifizierte COMISA Presssystem besteht aus Comisa Messing Press Fittings und dem Comisa Metallverbundrohr PE-RT/Al/PE-RT.

Bei Einsatz von Rohr oder Formteilen anderer Hersteller bzw. fremder Herkunft kann eine Kompatibilität nur nach vorheriger Absprache und Genehmigung seitens COMISA gegeben werden.

ANWENDUNGSANWEISUNGEN

Die Comisa Pressfittings müssen mit den entsprechenden Pressbacken von Typ TH verpresst werden. Bitte befolgen Sie genau die Comisa Installationsanweisungen (Seite 29).

LEISTUNGEN

Maximaler Betriebsdruck	10 bar
Maximale Betriebstemperatur	95°C
Maximale Spitztemperatur	110°C (1 Stunde)

Diese Leistungen beziehen sich nur auf die Comisa Press Fittings im Verbindung mit Comisa Metallverbundrohr.

PRESS KONTROLLE

Durch das Press-Control System ist es möglich eventuell vorhandene unverpresste Verbindungen bei einem Prüfdruck bis zu 4,5 bar aufzuspüren.

GARANTIE

10 Jahre laut Gesetz

Diese Garantie gilt nicht im Fall dass:

- die Installation nicht gemäß Comisa Installationsanweisungen korrekt durchgeführt wird,
- verschiedene Flüssigkeiten im Gegensatz zu Comisa Anweisungen in der Anlage eingeführt werden.
- verschiedene Temperatur und Druck im Gegensatz zu Comisa Anweisungen in der Anlage verwendet werden.

ZERTIFIKATIONEN

DVGW (Deutschland)- Nr. DW8501BO0049

KIWA - UNI EN 21003

GOST-R (Russland)

GOST-U (Ukraine)

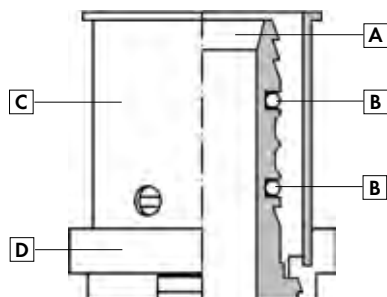
EMI (Ungarn)

ITB (Polen)

VUPS (Tschechische Republik)

KIWA (Holland)

● DIE COMISA PRESSFITTINGS BESTEHEN AUS:



- Fittingkörper** aus Messing EN12165 CW617N: der eingesetzte Werkstoff kann in allen Trinkwässern ohne Einschränkung verwendet werden und entspricht in seinen Eigenschaften voll und ganz der Trinkwasserverordnung
- O-Ringe** aus EPDM (Ethyl-Propylen-Dien- Kautschuk) - Peroxyd
- Hülse aus Edelstahl** AISI 304 DIN EN 10088-2
- Transparenter **Kunststoffring** aus PE-LD, der die endgültige Positionierung der TH-Pressbacke garantiert.

Pressfittinge



DW-8501BO0049

ÖRTLICHE DRUCKVERLUSTE

Zu den durch Reibung an den Rohrwänden verursachten kontinuierlichen Druckverlusten gesellen sich die örtlichen Druckverluste, die durch Veränderungen in der Strecke, dem Abschnitt oder der Form des Kreislaufs sowie durch Fittings, Kurven, Ventile etc. hervorgerufen werden, die das Medium durchläuft.

Jede Störung des Flusses verursacht einen örtlichen Druckverlust, dessen Wert von der Art und Bedeutung des jeweiligen Hindernisses abhängt.

Im Allgemeinen werden zur Berechnung der örtlichen Druckverluste 2 Methoden angewandt: die direkte Methode und die Methode der gleichwertigen Längen.

Bei der direkten Methode wird jeder Druckverlust spezifisch

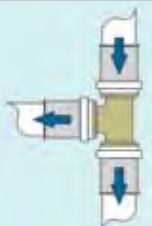
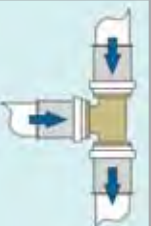
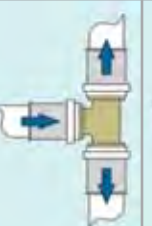
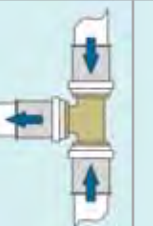
berechnet, der durch die einzelnen Hindernisse bei dem Fluss des Mediums entsteht; dieser wird in einem negativen Wert ausgedrückt.

Bei der Berechnung der gleichwertigen Längen wird jedes Hindernis durch eine fiktive (gleichwertige) Rohrlänge ersetzt, die denselben Druckverlust aufweist. Für die Berechnung der örtlichen Druckverluste ziehen wir diese Methode heran.

Auch die gleichwertigen Längen werden durch eher komplexe Formeln ausgedrückt, die wie in der folgenden Tabelle zur praktischen Anwendung gedacht sind.

**TABELLE ZUR BERECHNUNG DER ÖRTLICHEN DRUCKVERLUSTE
(AUSGEDRÜCKT IN GLEICHWERTIGEN ROHRLÄNGENMETERN) GLEICHWERTIGE LÄNGEN**

TAB. 2

							
Ø 16 x 2,0	0,80	0,70	0,60	1,40	1,80	0,35	0,80
Ø 18 x 2,0	1,00	0,90	0,80	1,60	2,10	0,45	1,00
Ø 20 x 2,5	1,10	1,00	0,90	1,70	2,20	0,45	1,10
Ø 20 x 2,0	1,30	1,15	1,00	1,90	2,70	0,50	1,30
Ø 26 x 3,0	1,80	1,60	1,40	2,50	4,30	0,65	1,80
Ø 32 x 3,0	2,70	2,30	2,00	4,20	6,30	0,85	2,70
Ø 40 x 3,5	3,00	2,60	2,30	5,00	7,50	1,00	3,00
Ø 50 x 4,0	4,60	4,20	3,80	6,70	10,00	1,30	4,60

Pressfittings



DW-8501BO0049

WERTE DER ÖRTLICHEN DRUCKVERLUSTE

$$\zeta \text{ (zeta)} \cdot \rho = 18^\circ \text{C},$$

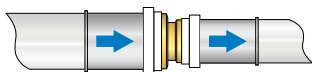
$$\rho = 999 \text{ Kg/m}^3$$

KUPPLUNG

Art. Nr.
87.10

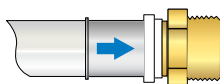

		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16	ζ	8,810	6,310	6,140
	l/sec	0,113	0,226	0,339
20 x 20	ζ	2,200	2,150	1,620
	l/sec	0,201	0,402	0,603
26 x 26	ζ	1,600	1,500	1,470
	l/sec	0,314	0,628	0,942
32 x 32	ζ	0,600	0,600	0,600
	l/sec	0,531	1,062	1,593

REDUKTION

Art. Nr.
87.11


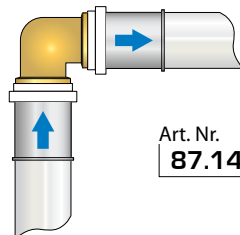
		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16	ζ	12,310	8,580	7,490
	l/sec	0,113	0,226	0,339
26 x 20	ζ	2,700	2,600	2,240
	l/sec	0,201	0,402	0,603
32 x 26	ζ	2,800	2,380	2,390
	l/sec	0,314	0,628	0,942

ÜBERGANG MIT AG

Art. Nr.
87.12


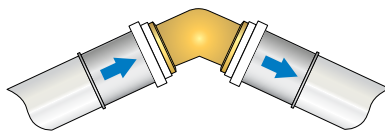
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 1 1/2"	ζ	11,810	9,860	8,030
	l/sec	0,113	0,226	0,339
20 x 3/4"	ζ	4,800	3,500	2,960
	l/sec	0,201	0,402	0,603
26 x 1"	ζ	3,400	2,350	2,400
	l/sec	0,314	0,628	0,942
32 x 1 1/4"	ζ	1,400	1,600	1,470
	l/sec	0,531	1,062	1,593

WINKEL 90°


Art. Nr.
87.14

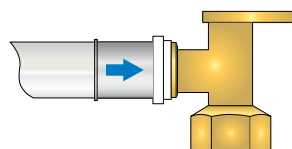
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16	ζ	21,820	17,370	14,730
	l/sec	0,113	0,226	0,339
20 x 20	ζ	10,410	7,560	6,980
	l/sec	0,201	0,302	0,603
26 x 26	ζ	7,810	6,260	6,540
	l/sec	0,314	0,628	0,942
32 x 32	ζ	4,000	4,300	4,180
	l/sec	0,531	1,062	1,593

WINKEL 45°

Art. Nr.
87.30


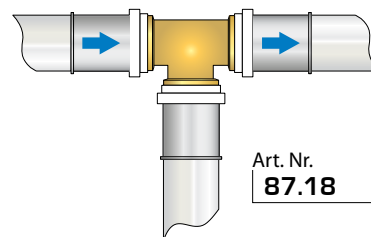
		1,0 m/s	2,0 m/s	3,0 m/s
26 x 26	ζ	3,200	2,550	2,650
	l/sec	0,314	0,628	0,942
32 x 32	ζ	1,600	1,550	1,560
	l/sec	0,531	1,062	1,593

WANDWINKEL


Art. Nr.
87.24. ---

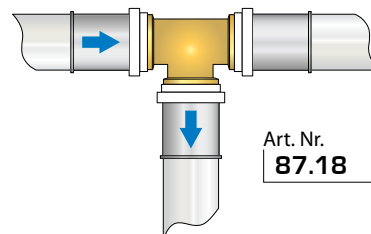
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 1 1/2"	ζ	26,830	20,170	16,170
	l/sec	0,113	0,226	0,339
20 x 3/4"	ζ	12,410	9,710	9,030
	l/sec	0,201	0,402	0,603

T-STÜCK GERADER DURCHFLUSS


Art. Nr.
87.18

		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16 x 16	ζ	12,210	7,060	6,360
	l/sec	0,113	0,226	0,339
20 x 20 x 20	ζ	3,200	2,350	2,180
	l/sec	0,201	0,402	0,603
26 x 26 x 26	ζ	2,000	1,500	1,670
	l/sec	0,314	0,628	0,942
32 x 32 x 32	ζ	1,000	1,000	0,870
	l/sec	0,531	1,062	1,593

T-STÜCK UMGELENKTER DURCHFLUSS


Art. Nr.
87.18

		1,0 m/s	2,0 m/s	3,0 m/s
16 x 16 x 16	ζ	23,820	17,170	15,500
	l/sec	0,113	0,226	0,339
20 x 20 x 20	ζ	10,010	8,760	7,940
	l/sec	0,201	0,402	0,603
26 x 26 x 26	ζ	7,410	6,260	6,760
	l/sec	0,314	0,628	0,942
32 x 32 x 32	ζ	4,600	4,650	4,360
	l/sec	0,531	1,062	1,593

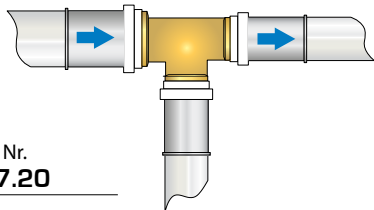
Pressfittinge



DW-8501B00049

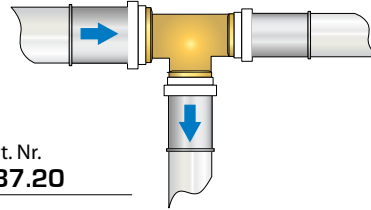
WERTE DER ÖRTLICHEN DRUCKVERLUSTE

T-STÜCK REDUZIERT GERADER DURCHFLUSS


Art. Nr.
87.20

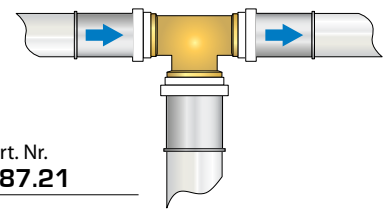
		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 16	ζ	14,710	11,440	8,800
	l/sec	0,113	0,226	0,339
20 x 20 x 16	ζ	12,110	11,090	8,860
	l/sec	0,113	0,226	0,339
26 x 16 x 20	ζ	3,500	2,800	2,320
	l/sec	0,201	0,402	0,603
26 x 20 x 16	ζ	11,110	8,430	7,440
	l/sec	0,113	0,226	0,339
26 x 20 x 20	ζ	4,100	2,650	2,210
	l/sec	0,201	0,402	0,603
26 x 26 x 16	ζ	11,51	8,480	7,330
	l/sec	0,113	0,226	0,339
26 x 26 x 20	ζ	3,500	2,700	2,390
	l/sec	0,201	0,402	0,603
32 x 20 x 26	ζ	3,200	2,680	2,810
	l/sec	0,314	0,628	0,942
32 x 32 x 20	ζ	4,800	3,930	3,340
	l/sec	0,201	0,402	0,603
32 x 32 x 26	ζ	3,400	2,580	2,550
	l/sec	0,314	0,628	0,942

T-STÜCK REDUZIERT UMGELENKTER DURCHFLUSS


Art. Nr.
87.20

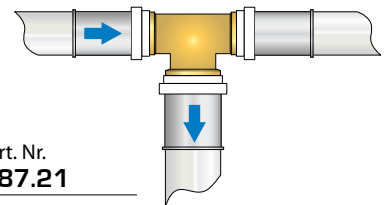
		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 16	ζ	14,510	13,04	10,870
	l/sec	0,113	0,226	0,339
20 x 20 x 16	ζ	9,410	8,360	7,790
	l/sec	0,201	0,402	0,603
26 x 16 x 20	ζ	14,710	11,990	10,420
	l/sec	0,113	0,226	0,339
26 x 20 x 16	ζ	6,710	6,010	5,310
	l/sec	0,201	0,402	0,603
26 x 20 x 20	ζ	7,110	5,760	5,150
	l/sec	0,201	0,402	0,603
26 x 26 x 16	ζ	8,010	7,360	7,500
	l/sec	0,314	0,628	0,942
26 x 26 x 20	ζ	8,010	6,760	7,070
	l/sec	0,314	0,628	0,942
32 x 20 x 26	ζ	6,610	5,330	4,520
	l/sec	0,201	0,402	0,603
32 x 32 x 20	ζ	4,800	5,960	6,090
	l/sec	0,531	1,062	1,593
32 x 32 x 26	ζ	4,800	5,110	5,050
	l/sec	0,531	1,062	1,593

T-STÜCK ERWEITERT GERADER DURCHFLUSS


Art. Nr.
87.21

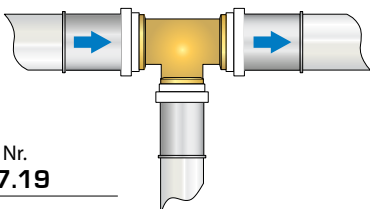
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 20 x 16	ζ	10,210	7,410	6,940
	l/sec	0,113	0,226	0,339
20 x 26 x 20	ζ	3,800	2,850	2,540
	l/sec	0,201	0,402	0,603
26 x 32 x 26	ζ	2,800	2,600	2,380
	l/sec	0,314	0,628	0,942

T-STÜCK ERWEITERT UMGELENKTER DURCHFLUSS


Art. Nr.
87.21

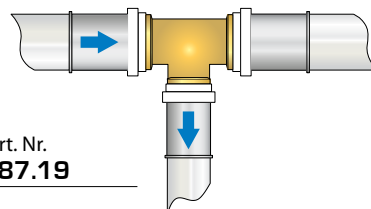
		1,0 m/s	2,0 m/s	3,0 m/s
16 x 20 x 16	ζ	14,91	10,590	10,070
	l/sec	0,113	0,226	0,339
20 x 26 x 20	ζ	5,710	5,160	4,530
	l/sec	0,201	0,402	0,603
26 x 32 x 26	ζ	5,610	4,780	4,730
	l/sec	0,314	0,628	0,942

T-STÜCK MITTELABGANG REDUZIERT GERADER DURCHFLUSSE


Art. Nr.
87.19

		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 20	ζ	2,600	2,100	1,780
	l/sec	0,201	0,402	0,603
26 x 20 x 26	ζ	2,400	2,050	1,870
	l/sec	0,314	0,628	0,942
32 x 20 x 32	ζ	0,800	0,800	0,760
	l/sec	0,531	1,062	1,593

T-STÜCK MITTELABGANG REDUZIERT UMGELENKTER DURCHFLUSS

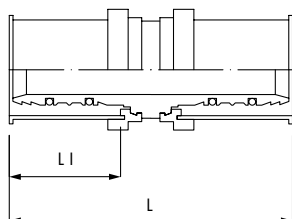

Art. Nr.
87.19

		1,0 m/s	2,0 m/s	3,0 m/s
20 x 16 x 20	ζ	14,910	11,94	11,270
	l/sec	0,113	0,226	0,339
26 x 20 x 26	ζ	7,910	5,860	5,280
	l/sec	0,201	0,402	0,603
32 x 20 x 32	ζ	5,610	4,930	4,290
	l/sec	0,201	0,402	0,603

Pressfittings



DW-8501BO0049

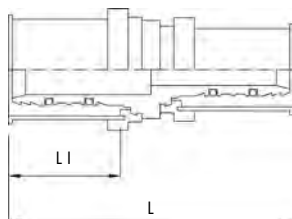


Abmessung mm	L	LI	Art. Nr.
14 x 2	63	25	87.10.140
16 x 2	63	25	87.10.160
16 x 2,25	63	25	87.10.161
17 x 2	63	25	87.10.170
18 x 2	63	25	87.10.180
20 x 2	63	25	87.10.200
20 x 2,5	63	25	87.10.201
25 x 2,5	63	25	87.10.250
26 x 3	63	25	87.10.260
32 x 3	68	25	87.10.320
40 x 3,5	71	25	87.10.400
50 x 4	96	40	87.10.500
63 x 6	82	37	87.10.631

87.10



KUPPLUNG

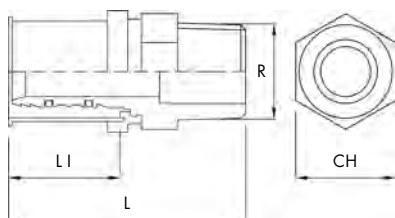


Abmessung mm	L	LI	Art. Nr.
16 x 2 - 14 x 2	63	25	87.11.160
18 x 2 - 16 x 2	63	25	87.11.181
20 x 2 - 14 x 2	63	25	87.11.200
20 x 2 - 16 x 2	63	25	87.11.201
20 x 2 - 18 x 2	63	25	87.11.203
20 x 2,5 - 16 x 2	63	25	87.11.205
20 x 2,5 - 16 x 2,25	63	25	87.11.206
25 x 2,5 - 16 x 2	63	25	87.11.250
25 x 2,5 - 18 x 2	63	25	87.11.251
25 x 2,5 - 20 x 2	63	25	87.11.252
26 x 3 - 16 x 2	63	25	87.11.260
26 x 3 - 18 x 2	63	25	87.11.262
26 x 3 - 20 x 2	63	25	87.11.263
26 x 3 - 20 x 2,5	63	25	87.11.264
32 x 3 - 16 x 2	68	25	87.11.320
32 x 3 - 18 x 2	68	25	87.11.321
32 x 3 - 20 x 2	68	25	87.11.322
32 x 3 - 25 x 2,5	68	25	87.11.324
32 x 3 - 26 x 3	68	25	87.11.325
40 x 3,5 - 25 x 2,5	71	25	87.11.400
40 x 3,5 - 26 x 3	71	25	87.11.401
40 x 3,5 - 32 x 3	71	25	87.11.402
50 x 4 - 32 x 3	81	40 - 25	87.11.501
50 x 4 - 40 x 3,5	81	40 - 25	87.11.600
63 x 6 - 40 x 3,5	73	37 - 25	87.11.640
63 x 6 - 50 x 4	89	37 - 40	87.11.650

87.11



REDUKTION

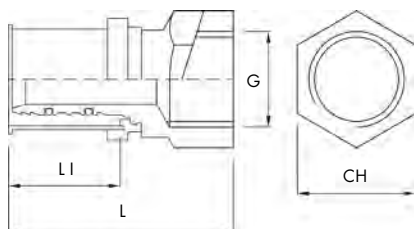


Abmessung mm	L	LI	R	CH	Art. Nr.
14 x 2 - 1/2"	50	25	1/2"	22	87.12.140
16 x 2 - 1/2"	50	25	1/2"	22	87.12.160
16 x 2,25 - 1/2"	50	25	1/2"	22	87.12.161
18 x 2 - 1/2"	50	25	1/2"	22	87.12.180
18 x 2 - 3/4"	54	25	3/4"	27	87.12.181
20 x 2 - 1/2"	50	25	1/2"	22	87.12.200
20 x 2 - 3/4"	54	25	3/4"	27	87.12.201
20 x 2,5 - 1/2"	50	25	1/2"	22	87.12.202
20 x 2,5 - 3/4"	54	25	3/4"	27	87.12.203
25 x 2,5 - 3/4"	54	25	3/4"	37	87.12.250
25 x 2,5 - 1"	57	25	1"	34	87.12.251
26 x 3 - 1/2"	53	25	1/2"	27	87.12.255
26 x 3 - 3/4"	54	25	3/4"	27	87.12.260
26 x 3 - 1"	57	25	1"	34	87.12.261
32 x 3 - 1"	57	25	1"	34	87.12.320
32 x 3 - 1 1/4"	62	25	1 1/4"	43	87.12.321
40 x 3,5 - 1"	60	25	1"	43	87.12.400
40 x 3,5 - 1 1/4"	62	25	1 1/4"	43	87.12.401
50 x 4 - 1 1/4"	73	40	1 1/4"	50	87.12.500
50 x 4 - 1 1/2"	73	40	1 1/2"	50	87.12.501
63 x 6 - 2"	85	37	2"	60	87.12.631

87.12



ÜBERGANG MIT AG

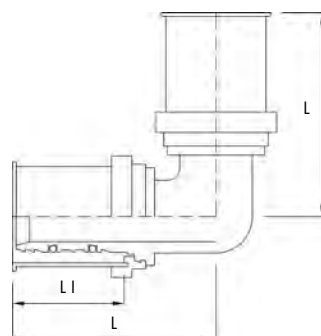


Abmessung mm	L	LI	G	CH	Art. Nr.
14 x 2 - 1/2"	50	25	1/2"	25	87.13.140
16 x 2 - 1/2"	50	25	1/2"	25	87.13.160
16 x 2,25 - 1/2"	50	25	1/2"	25	87.13.161
18 x 2 - 1/2"	50	25	1/2"	25	87.13.180
18 x 2 - 3/4"	53	25	3/4"	30	87.13.181
20 x 2 - 1/2"	50	25	1/2"	25	87.13.200
20 x 2 - 3/4"	53	25	3/4"	30	87.13.201
20 x 2,5 - 1/2"	50	25	1/2"	25	87.13.202
20 x 2,5 - 3/4"	53	25	3/4"	30	87.13.203
25 x 2,5 - 3/4"	53	25	3/4"	30	87.13.250
25 x 2,5 - 1"	53	25	1"	38	87.13.251
26 x 3 - 3/4"	53	25	3/4"	30	87.13.260
26 x 3 - 1"	53	25	1"	38	87.13.261
32 x 3 - 1"	53	25	1"	38	87.13.320
32 x 3 - 1 1/4"	57	25	1 1/4"	50	87.13.321
40 x 3,5 - 1"	53	25	1"	43	87.13.400
40 x 3,5 - 1 1/4"	57	25	1 1/4"	50	87.13.401
40 x 3,5 - 1 1/2"	57	25	1 1/2"	50	87.13.405
50 x 4 - 1 1/4"	70	40	1 1/4"	50	87.13.500
50 x 4 - 1 1/2"	73	40	1 1/2"	50	87.13.501
63 x 6 - 2"	73	37	2"	70	87.13.631

87.13

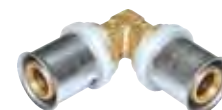


ÜBERGANG MIT IG

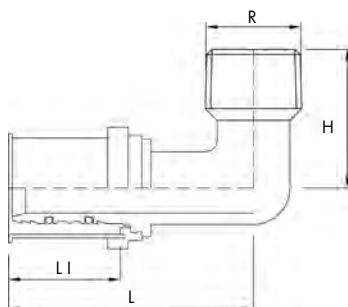


Abmessung mm	L	LI	Art. Nr.
16 x 2	45	25	87.14.160
16 x 2,25	45	25	87.14.161
18 x 2	45	25	87.14.180
20 x 2	45	25	87.14.200
20 x 2,5	45	25	87.14.201
25 x 2,5	45	25	87.14.250
26 x 3	48	25	87.14.260
32 x 3	52	25	87.14.320
40 x 3,5	56	25	87.14.340
50 x 4	76	40	87.14.350
63 x 6	83	37	87.14.631

87.14

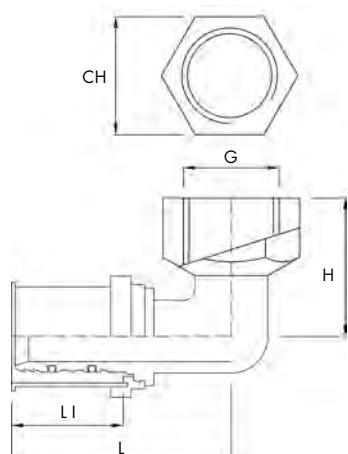


WINKEL 90°



Abmessung mm	L	LI	H	R	Art. Nr.
14 x 2 - 1/2"	54	25	31	1/2"	87.16.140
16 x 2 - 1/2"	47	25	29	1/2"	87.16.160
16 x 2,25 - 1/2"	47	25	29	1/2"	87.16.161
18 x 2 - 1/2"	54	25	31	1/2"	87.16.180
20 x 2 - 1/2"	54	25	31	1/2"	87.16.200
20 x 2 - 3/4"	49	25	34	3/4"	87.16.201
20 x 2,5 - 1/2"	54	25	31	1/2"	87.16.202
20 x 2,5 - 3/4"	49	25	34	3/4"	87.16.203
25 x 2,5 - 3/4"	49	25	39	3/4"	87.16.250
26 x 3 - 3/4"	49	25	39	3/4"	87.16.260
32 x 3 - 1"	52	25	43	1"	87.16.320
40 x 3,5 - 1 1/4"	55	25	54	1 1/4"	87.16.400
50 x 4 - 1 1/4"	76	40	61	1 1/4"	87.16.500
50 x 4 - 1 1/2"	76	40	61	1 1/2"	87.16.501

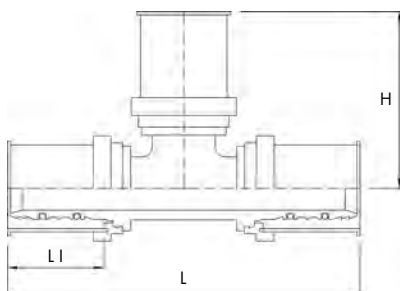
87.16


ÜBERGANGSWINKEL
MIT AG 90°


Abmessung mm	L	LI	H	G	CH	Art. Nr.
14 x 2 - 1/2"	47	25	25	1/2"	25	87.17.140
16 x 2 - 1/2"	54	25	33	1/2"	\	87.17.159
16 x 2 - 1/2"	47	25	25	1/2"	25	87.17.160
16 x 2,25 - 1/2"	47	25	25	1/2"	25	87.17.161
18 x 2 - 1/2"	48	25	26	1/2"	26	87.17.180
18 x 2 - 3/4"	49	25	34	3/4"	31	87.17.181
20 x 2 - 1/2"	48	25	26	1/2"	26	87.17.200
20 x 2 - 3/4"	49	25	34	3/4"	31	87.17.201
20 x 2,5 - 1/2"	48	25	26	1/2"	26	87.17.202
20 x 2,5 - 3/4"	49	25	34	3/4"	31	87.17.203
25 x 2,5 - 3/4"	49	25	42	3/4"	31	87.17.250
26 x 3 - 3/4"	49	25	42	3/4"	31	87.17.260
32 x 3 - 1"	52	25	45	1"	38	87.17.320
40 x 3,5 - 1 1/4"	56	25	55	1 1/4"	47	87.17.400
50 x 4 - 1 1/4"	76	40	63	1 1/4"	\	87.17.500
50 x 4 - 1 1/2"	76	40	63	1 1/2"	\	87.17.501

87.17


ÜBERGANGSWINKEL
MIT IG 90°

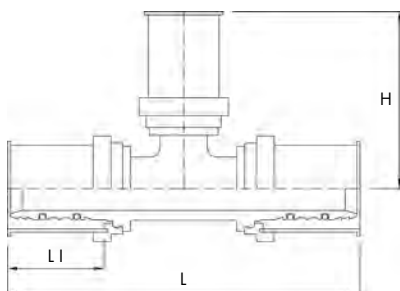


Abmessung mm	L	LI	H	Art. Nr.
14 x 2	90	25	45	87.18.140
16 x 2	90	25	45	87.18.160
16 x 2,25	90	25	45	87.18.161
18 x 2	90	25	45	87.18.180
20 x 2	90	25	45	87.18.200
20 x 2,5	90	25	45	87.18.201
25 x 2,5	96	25	48	87.18.250
26 x 3	96	25	48	87.18.260
32 x 3	104	25	52	87.18.320
40 x 3,5	112	25	56	87.18.400
50 x 4	152	40	76	87.18.500
63 x 6	166	37	83	87.18.631

87.18

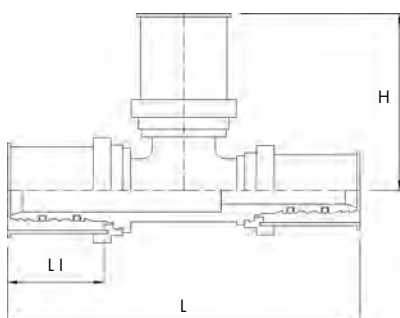


T- STÜCK



Abmessung mm	L	LI	H	Art. Nr.
16 x 2 - 14 x 2 - 16 x 2	90	25	45	87.19.160
18 x 2 - 16 x 2 - 18 x 2	90	25	45	87.19.181
20 x 2 - 16 x 2 - 20 x 2	90	25	45	87.19.201
20 x 2 - 18 x 2 - 20 x 2	90	25	45	87.19.202
20 x 2,5 - 16 x 2 - 20 x 2,5	90	25	45	87.19.204
20 x 2,5 - 16 x 2,25 - 20 x 2,5	90	25	45	87.19.205
25 x 2,5 - 16 x 2 - 25 x 2,5	96	25	48	87.19.250
25 x 2,5 - 20 x 2 - 25 x 2,5	96	25	48	87.19.252
26 x 3 - 20 x 2,5 - 26 x 3	96	25	48	87.19.260
26 x 3 - 16 x 2 - 26 x 3	96	25	48	87.19.261
26 x 3 - 18 x 2 - 26 x 3	96	25	48	87.19.262
26 x 3 - 20 x 2 - 26 x 3	96	25	48	87.19.263
32 x 3 - 16 x 2 - 32 x 3	104	25	52	87.19.320
32 x 3 - 18 x 2 - 32 x 3	104	25	52	87.19.321
32 x 3 - 20 x 2 - 32 x 3	104	25	52	87.19.322
32 x 3 - 20 x 2,5 - 32 x 3	104	25	52	87.19.323
32 x 3 - 25 x 2,5 - 32 x 3	104	25	52	87.19.324
32 x 3 - 26 x 3 - 32 x 3	104	25	52	87.19.326
40 x 3,5 - 25 x 2,5 - 40 x 3,5	112	25	56	87.19.401
40 x 3,5 - 26 x 3 - 40 x 3,5	112	25	56	87.19.402
40 x 3,5 - 32 x 3 - 40 x 3,5	112	25	56	87.19.403
50 x 4 - 26 x 3 - 50 x 4	152	40	76	87.19.500
50 x 4 - 32 x 3 - 50 x 4	152	40	76	87.19.501
50 x 4 - 40 x 3,5 - 50 x 4	152	40	76	87.19.502

87.19


T- STÜCK
MITTELABGANG
REDUZIERT


Abmessung mm	L	LI	H	Art. Nr.
16 x 2 - 14 x 2 - 14 x 2	90	25	45	87.20.160
18 x 2 - 16 x 2 - 16 x 2	90	25	45	87.20.181
20 x 2 - 16 x 2 - 16 x 2	90	25	45	87.20.202
20 x 2 - 18 x 2 - 18 x 2	90	25	45	87.20.203
20 x 2 - 16 x 2 - 18 x 2	90	25	45	87.20.204
20 x 2 - 20 x 2 - 14 x 2	90	25	45	87.20.205
20 x 2 - 20 x 2 - 16 x 2	90	25	45	87.20.206
20 x 2,5 - 16 x 2 - 16 x 2	90	25	45	87.20.209
20 x 2,5 - 16 x 2,25 - 16 x 2,25	90	25	45	87.20.210
25 x 2,5 - 16 x 2 - 20 x 2	96	25	48	87.20.250
25 x 2,5 - 20 x 2 - 16 x 2	96	25	48	87.20.251
25 x 2,5 - 20 x 2 - 20 x 2	96	25	48	87.20.252
25 x 2,5 - 25 x 2,5 - 16 x 2	96	25	48	87.20.253
25 x 2,5 - 25 x 2,5 - 20 x 2	96	25	48	87.20.254
26 x 3 - 16 x 2 - 20 x 2	96	25	48	87.20.260
26 x 3 - 18 x 2 - 18 x 2	96	25	48	87.20.262
26 x 3 - 20 x 2 - 16 x 2	96	25	48	87.20.264
26 x 3 - 20 x 2 - 20 x 2	96	25	48	87.20.265
26 x 3 - 20 x 2,5 - 20 x 2,5	96	25	48	87.20.267
26 x 3 - 26 x 3 - 20 x 2,5	96	25	48	87.20.268
26 x 3 - 26 x 3 - 16 x 2	96	25	48	87.20.269
26 x 3 - 26 x 3 - 20 x 2	96	25	48	87.20.270
32 x 3 - 20 x 2 - 26 x 3	104	25	52	87.20.320
32 x 3 - 20 x 2,5 - 26 x 3	104	25	52	87.20.321
32 x 3 - 25 x 2,5 - 25 x 2,5	104	25	52	87.20.323
32 x 3 - 26 x 3 - 26 x 3	104	25	52	87.20.325
32 x 3 - 32 x 3 - 20 x 2	104	25	52	87.20.326
32 x 3 - 32 x 3 - 26 x 3	104	25	52	87.20.329
40 x 3,5 - 32 x 3 - 32 x 3	112	25	56	87.20.400
40 x 3,5 - 40 x 3,5 - 26 x 3	112	25	56	87.20.403
40 x 3,5 - 40 x 3,5 - 32 x 3	112	25	56	87.20.405
50 x 4 - 40 x 3,5 - 40 x 3,5	139	40	76	87.20.500
50 x 4 - 32 x 3 - 40 x 3,5	139	40	76	87.20.501
50 x 4 - 50 x 4 - 32 x 3	139	40	76	87.20.502
50 x 4 - 50 x 4 - 40 x 3,5	139	40	76	87.20.503

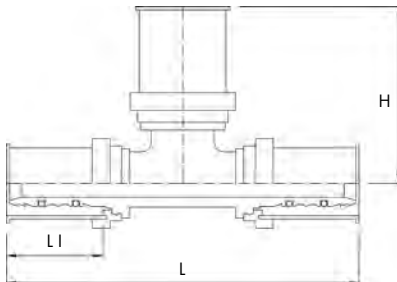
87.20


T- STÜCK
MITTELABGANG
REDUZIERT

Pressfittinge



DW-8501B00049

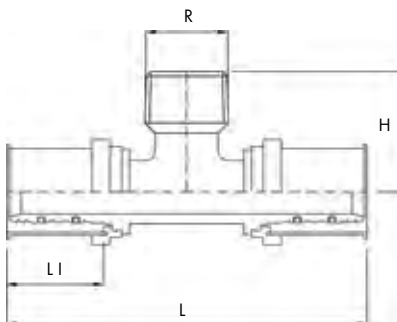


Abmessung mm	L	LI	H	Art. Nr.
14 x 2 - 16 x 2 - 14 x 2	90	25	45	87.21.140
16 x 2 - 18 x 2 - 16 x 2	90	25	45	87.21.160
16 x 2 - 20 x 2 - 16 x 2	90	25	45	87.21.161
16 x 2 - 20 x 2,5 - 16 x 2	90	25	45	87.21.162
16 x 2,5 - 20 x 2,5 - 16 x 2,5	90	25	45	87.21.163
20 x 2 - 25 x 2,5 - 20 x 2	96	25	48	87.21.200
20 x 2 - 26 x 3 - 20 x 2	96	25	48	87.21.201
20 x 2,5 - 26 x 3 - 20 x 2,5	96	25	48	87.21.202
25 x 2,5 - 32 x 3 - 25 x 2,5	104	25	52	87.21.250
26 x 3 - 32 x 3 - 26 x 3	104	25	52	87.21.260

87.21



T-STÜCK ERWEITERT

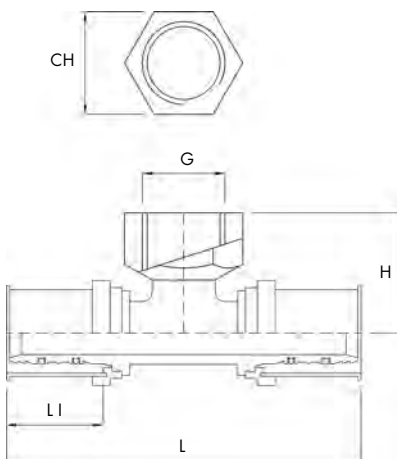


Abmessung mm	L	LI	H	R	Art. Nr.
16 x 2 - 1/2" - 16 x 2	92	25	29	1/2"	87.22.160
16 x 2,5 - 1/2" - 16 x 2,5	92	25	29	1/2"	87.22.161
18 x 2 - 1/2" - 18 x 2	92	25	32	1/2"	87.22.180
20 x 2 - 1/2" - 20 x 2	92	25	32	1/2"	87.22.200
20 x 2 - 3/4" - 20 x 2	98	25	36	3/4"	87.22.201
20 x 2,5 - 1/2" - 20 x 2,5	92	25	32	1/2"	87.22.202
25 x 2,5 - 3/4" - 25 x 2,5	98	25	36	3/4"	87.22.251
25 x 2,5 - 1" - 25 x 2,5	104	25	40	1"	87.22.252
26 x 3 - 1/2" - 26 x 3	98	25	33	1/2"	87.22.260
26 x 3 - 3/4" - 26 x 3	98	25	36	3/4"	87.22.261
26 x 3 - 1" - 26 x 3	104	25	40	1"	87.22.262
32 x 3 - 3/4" - 32 x 3	104	25	38	3/4"	87.22.320
32 x 3 - 1" - 32 x 3	104	25	40	1"	87.22.321
40 x 3,5 - 1" - 40 x 3,5	112	25	45	1"	87.22.400
50 x 4 - 1 1/4" - 50 x 4	152	40	61	1 1/4"	87.22.500
50 x 4 - 1 1/2" - 50 x 4	152	40	61	1 1/2"	87.22.501

87.22



T-STÜCK MIT AG



Abmessung mm	L	LI	H	G	CH	Art. Nr.
116 x 2 - 1/2" - 16 x 2	92	25	33	1/2"	25	87.23.160
16 x 2,5 - 1/2" - 16 x 2,5	92	25	33	1/2"	25	87.23.161
18 x 2 - 1/2" - 18 x 2	92	25	35	1/2"	25	87.23.180
18 x 2 - 3/4" - 18 x 2	98	25	42	3/4"	31	87.23.181
20 x 2 - 1/2" - 20 x 2	92	25	35	1/2"	25	87.23.200
20 x 2 - 3/4" - 20 x 2	98	25	42	3/4"	31	87.23.201
20 x 2,5 - 1/2" - 20 x 2,5	92	25	35	1/2"	25	87.23.202
20 x 2,5 - 3/4" - 20 x 2,5	98	25	42	3/4"	31	87.23.203
25 x 2,5 - 1/2" - 25 x 2,5	92	25	35	1/2"	25	87.23.250
25 x 2,5 - 3/4" - 25 x 2,5	98	25	42	3/4"	31	87.23.252
26 x 3 - 1/2" - 26 x 3	94	25	37	1/2"	25	87.23.260
26 x 3 - 1/2" - 20 x 2	94	25	37	1/2"	25	87.23.261
26 x 3 - 3/4" - 26 x 3	98	25	42	3/4"	31	87.23.263
32 x 3 - 1/2" - 32 x 3	104	25	45	1/2"	38	87.23.320
32 x 3 - 3/4" - 32 x 3	104	25	45	1/2"	38	87.23.321
32 x 3 - 1" - 32 x 3	104	25	45	1"	38	87.23.322
32 x 3 - 1 1/4" - 32 x 3	112	25	55	1 1/4"	47	87.23.323
40 x 3,5 - 1" - 40 x 3,5	112	25	55	1"	47	87.23.400
40 x 3,5 - 1 1/4" - 40 x 3,5	112	25	55	1 1/4"	47	87.23.401
50 x 4 - 1 1/4" - 50 x 4	152	40	63	1 1/4"	\	87.23.500
50 x 4 - 1 1/2" - 50 x 4	152	40	63	1 1/2"	\	87.23.501
63 x 6 - 1" - 63 x 6	156	37	59	1"	\	87.23.631
63 x 6 - 1 1/2" - 63 x 6	156	37	59	1 1/2"	\	87.23.632

87.23

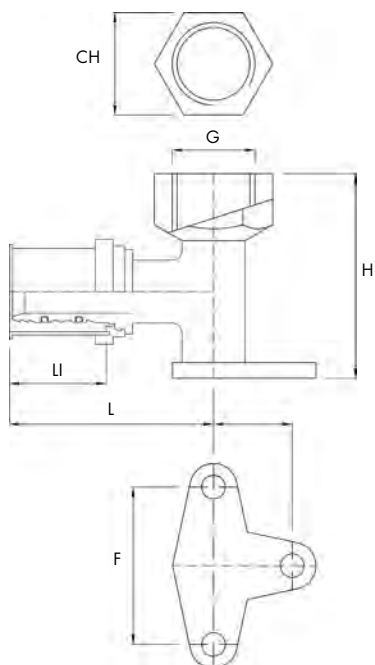


T-STÜCK MIT IG

Pressfittings



DW-8501BO0049



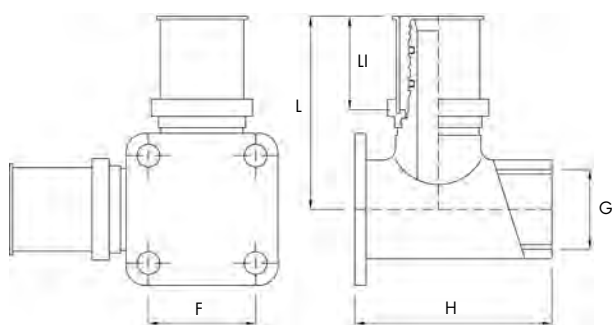
Abmessung mm	L	LI	H	G	CH	F	Art. Nr.
14 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.140
16 x 2 - 3/8"	47	25	39	3/8"	25	40	87.24.145
16 x 2,25 - 1/2"	47	25	39	1/2"	25	40	87.24.159
16 x 2 - 1/2"	47	25	39	1/2"	25	40	87.24.160
16 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.161
18 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.180
20 x 2 - 1/2"	52	25	52	1/2"	26	40	87.24.200
20 x 2 - 3/4"	52	25	52	3/4"	30	40	87.24.201
20 x 2,5 - 1/2"	52	25	52	1/2"	26	40	87.24.202
20 x 2,5 - 3/4"	52	25	52	3/4"	30	40	87.24.203
25 x 2,5 - 3/4"	52	25	52	3/4"	30	40	87.24.250
26 x 3 - 3/4"	52	25	52	3/4"	30	40	87.24.260

87.24


WANDWINKEL KURZ
DOPPELT

Abmessung mm	L	LI	H	G	F	Art. Nr.
16 x 2 - 1/2" - 16 x 2	51	25	52	1/2"	28	87.25.160
16 x 2,25 - 1/2" - 16 x 2,25	51	25	52	1/2"	28	87.25.161
18 x 2 - 1/2" - 18 x 2	51	25	52	1/2"	28	87.25.180
20 x 2 - 1/2" - 20 x 2	51	25	52	1/2"	28	87.25.200

87.25

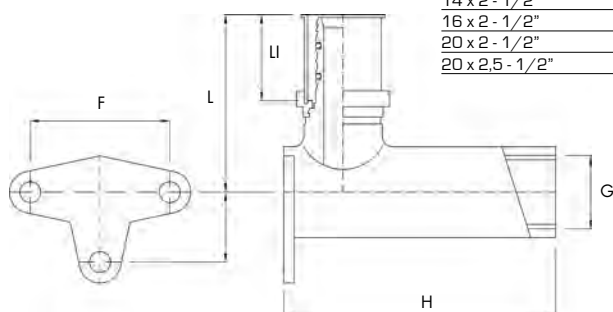

WANDWINKEL
KURZ DOPPELT


Abmessung mm	L	LI	H	G	F	Art. Nr.
14 x 2 - 1/2"	51	25	78	1/2"	40	87.26.140
16 x 2 - 1/2"	51	25	78	1/2"	40	87.26.160
20 x 2 - 1/2"	51	25	78	1/2"	40	87.26.200
20 x 2,5 - 1/2"	51	25	78	1/2"	40	87.26.201

87.26



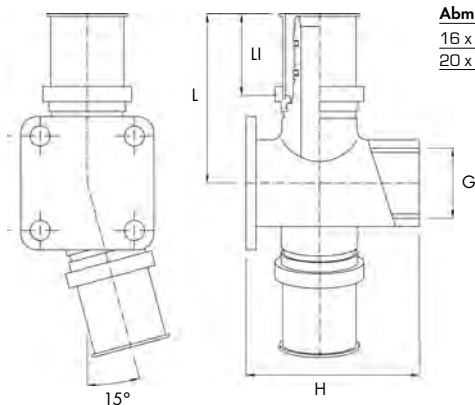
WANDWINKEL LANG 90°



Pressfittinge

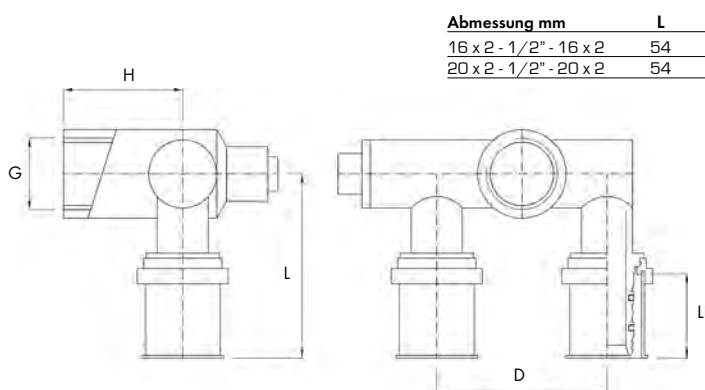


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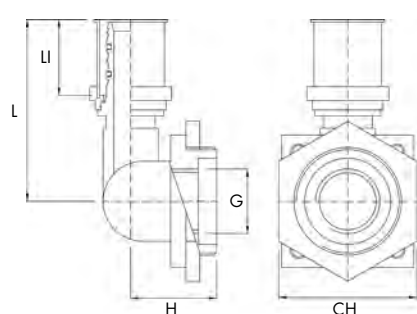
Abmessung mm	L	LI	H	G	Art. Nr.
16 x 2 - 1/2" F - 16 x 2 h 52 mm	51	25	52	1/2"	87.26.205
20 x 2 - 1/2" F - 20 x 2 h 52 mm	51	25	52	1/2"	87.26.210

87.26

WANDWINKEL FÜR
SERIENVERBINDUNGEN


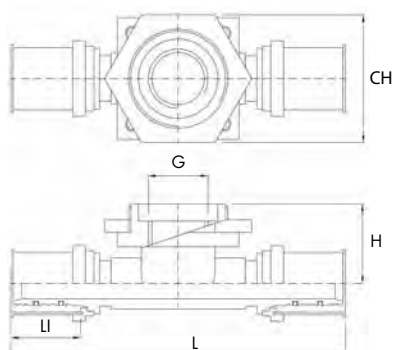
Abmessung mm	L	LI	H	G	D	Art. Nr.
16 x 2 - 1/2" - 16 x 2	54	25	35	1/2"	50	87.27.160
20 x 2 - 1/2" - 20 x 2	54	25	35	1/2"	50	87.27.200

87.27

WANDWINKEL
DOPPELT U-FORM


Abmessung mm	L	LI	H	G	CH	Art. Nr.
16 x 2 - 1/2"	59	25	28	1/2"	45	87.28.160
18 x 2 - 1/2"	59	25	28	1/2"	45	87.28.180
20 x 2 - 1/2"	59	25	28	1/2"	45	87.28.200

87.28

UP -
SPÜLKASTENWINKEL


Abmessung mm	L	LI	H	G	CH	Art. Nr.
16 x 2 - 1/2" - 16 x 2	118	25	28	1/2"	45	87.29.160
20 x 2 - 1/2" - 20 x 2	118	25	28	1/2"	45	87.29.200

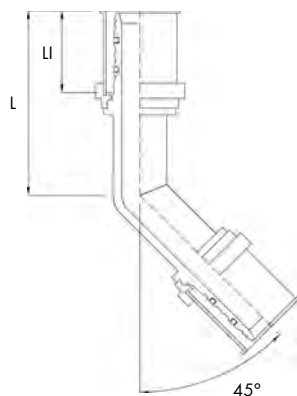
87.29

UP - SPÜLKASTEN
T-STÜCK

Pressfittings



DW-8501BO0049

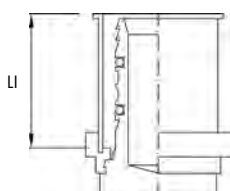


Abmessung mm	L	LI	Art. Nr.
25 x 2,5	56	25	87.30.250
26 x 3	56	25	87.30.260
32 x 3	56	25	87.30.320
40 x 3,5	56	25	87.30.400
50 x 4	77	40	87.30.500

87.30



WINKEL 45°

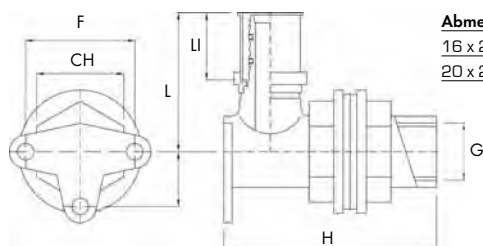


Abmessung mm	LI	Art. Nr.
14 x 2	25	87.31.140
16 x 2	25	87.31.160
18 x 2	25	87.31.180
20 x 2	25	87.31.200
25 x 2,5	25	87.31.250
26 x 3	25	87.31.260
32 x 3	25	87.31.320
40 x 3,5	25	87.31.400
50 x 4	40	87.31.500

87.31



PRESSSTOPFEN

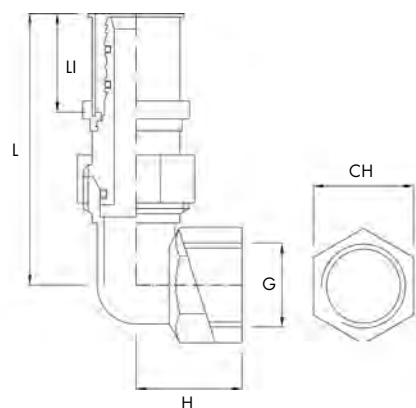


Abmessung mm	L	LI	H	G	CH	F	Art. Nr.
16 x 2	51	25	78	1/2	30	40	87.33.105
20 x 2	51	25	78	1/2	30	40	87.33.115

87.33



WANDDURCHFÜHRUNG



Abmessung mm	L	LI	H	G	CH	Art. Nr.
16 x 2 - 1/2"	68	25	27	1/2"	25	87.35.160
18 x 2 - 1/2"	68	25	27	1/2"	25	87.35.180
20 x 2 - 1/2"	68	25	27	1/2"	25	87.35.200
20 x 2 - 3/4"	68	25	30	3/4"	31	87.35.201

87.35

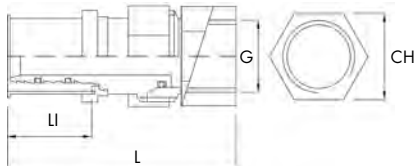


WINKEL-
VERSCHRÄBUNG
MIT IG 90°

Pressfittinge

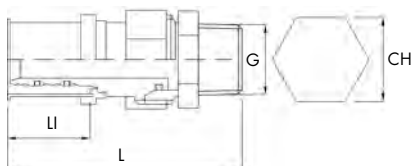


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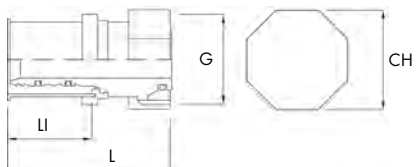
Abmessung mm	L	LI	G	CH	Art. Nr.
16 x 2 - 1/2"	67	25	1/2"	26	87.36.160
16 x 2 - 3/4"	72	25	3/4"	31	87.36.161
20 x 2 - 1/2"	67	25	1/2"	26	87.36.200
20 x 2 - 3/4"	72	25	3/4"	31	87.36.201
26 x 3 - 3/4"	73	25	3/4"	38	87.36.260
26 x 3 - 1"	73	25	1"	38	87.36.261
32 x 3 - 1"	86	25	1"	38	87.36.320

87.36


PRESSVERSCHRAUBUNG
MIT IG FLACHD.


Abmessung mm	L	LI	G	CH	Art. Nr.
16 x 2 - 1/2"	73	25	1/2"	26	87.37.160
16 x 2 - 3/4"	74	25	3/4"	27	87.37.161
20 x 2 - 1/2"	73	25	1/2"	26	87.37.200
20 x 2 - 3/4"	74	25	3/4"	27	87.37.201
26 x 3 - 3/4"	67	25	3/4"	33	87.37.260
26 x 3 - 1"	71	25	1"	33	87.37.261
32 x 3 - 1"	85	25	1"	33	87.37.320

87.37


PRESSVERSCHRAUBUNG
MIT AG, KONISCH


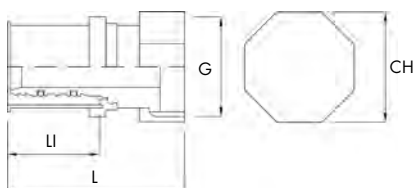
Abmessung mm	L	LI	G	CH	Art. Nr.
16 x 2 - 3/4"	48	25	3/4"	30	87.39.160
18 x 2 - 3/4"	48	25	3/4"	30	87.39.180
20 x 2 - 3/4"	48	25	3/4"	30	87.39.200
26 x 3 - 1"	44	25	1"	33	87.39.260
25 x 2,5 - 1"	44	25	1"	33	87.39.261

87.39


ANSCHLUSSPRESS-
VERSCHRAUBUNG
MIT EUROKONUS BLANK


Abmessung mm	L	LI	G	CH	Art. Nr.
16 x 2 - 3/4"	48	25	3/4"	30	87.40.160
20 x 2 - 3/4"	48	25	3/4"	30	87.40.200

87.40


ANSCHLUSSPRESS-
VERSCHRAUBUNG
MIT EUROKONUS VERN.


Abmessung mm	L	LI	G	CH	Art. Nr.
16 x 2 - 1/2"	52	25	1/2"	24	87.42.150
16 x 2 - 3/4"	48	25	3/4"	30	87.42.160
18 x 2 - 3/4"	48	25	3/4"	30	87.42.180
20 x 2 - 3/4"	48	25	3/4"	30	87.42.200
26 x 3 - 1"	45	25	1"	37	87.42.260

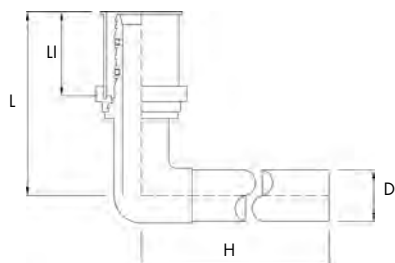
87.42


ÜBERGANGSPRESS-
VERSCHRAUBUNG
FLACHD.

Pressfittings

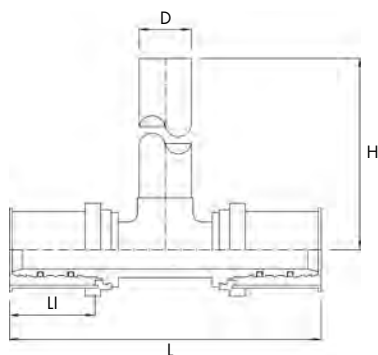


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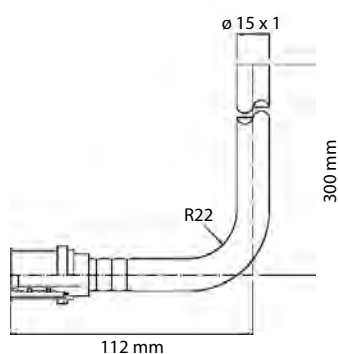
Abmessung mm	L	LI	H	D	Art. Nr.
14 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.140
16 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.160
16 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.161
18 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.180
18 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.181
20 x 2 - 15 mm - 300 mm	45	25	300	15	87.45.200
20 x 2 - 15 mm - 1100 mm	45	25	1100	15	87.45.201

87.45

HEIZKÖRPERANSCHLUSS
WINKEL MIT KUPFERROHR


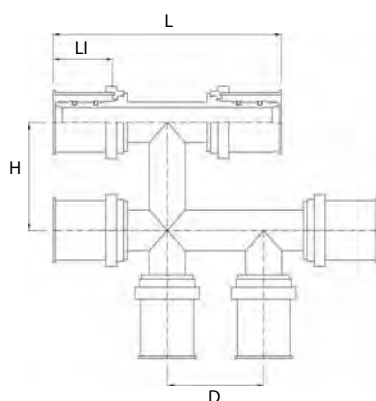
Abmessung mm	L	LI	H	D	Art. Nr.
14 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.140
14 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.141
16 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.160
16 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.161
18 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.180
18 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.181
20 x 2 - 15 mm - 300 mm	90	25	300	15	87.46.200
20 x 2 - 15 mm - 1100 mm	90	25	1100	15	87.46.201

87.46

HEIZKÖRPERANSCHLUSS
T-STÜCK VERNICKELT


Abmessung mm	Art. Nr.
18 x 2 - 15 mm	87.45.185

87.45

HEIZKÖRPERANSCHLUSS
WINKEL VERNICKELT


Abmessung mm	L	LI	H	D	Art. Nr.
16 x 2 - 16 x 2 - 16 x 2	95	25	40	40	87.49.010
20 x 2 - 16 x 2 - 16 x 2	95	25	40	40	87.49.015
20 x 2 - 16 x 2 - 20 x 2	95	25	40	40	87.49.020
20 x 2 - 20 x 2 - 20 x 2	95	25	40	40	87.49.025

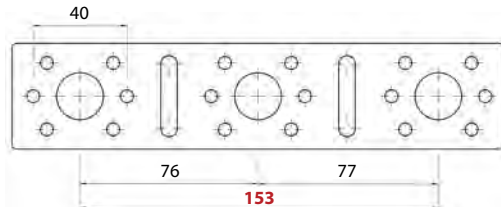
87.49


T-STÜCK BYPASS

Pressfittinge

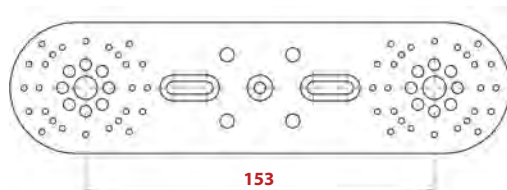


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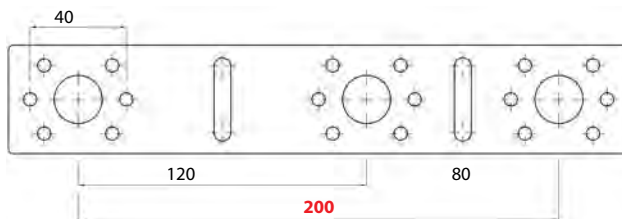
87.49.600

MONTAGEPLATTE (NORMALE AUSFÜHRUNG)
MIT 4
BEFESTIGUNGSSCHRAUBEN



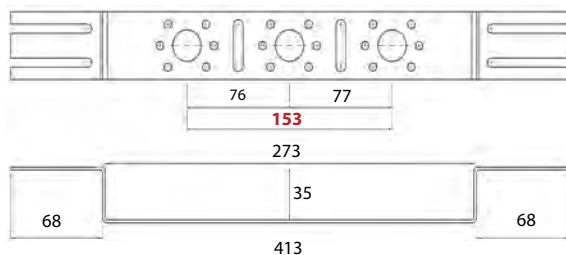
87.49.601

WEISSE
KUNSTSTOFFPLATTE
MIT 6
BEFESTIGUNGSSCHRAUBEN



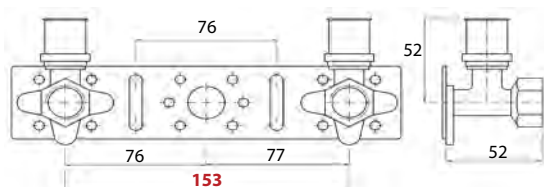
87.49.605

MONTAGEPLATTE
(NORMALE AUSFÜHRUNG) MIT 4
BEFESTIGUNGSSCHRAUBEN



87.49.610

MONTAGESCHIENE(EINBAUTEIL)
MIT 6
BEFESTIGUNGSSCHRAUBEN



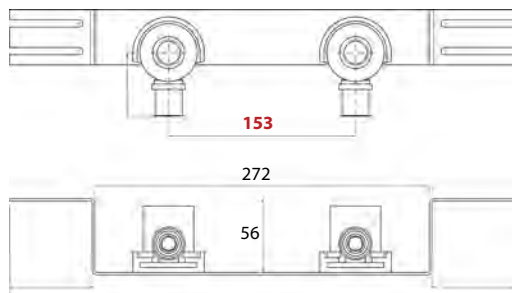
87.54.005

WANDWINKEL
MONTIERT IM SET
16 x 1/2" IG
h 52 mm.

Pressfittinge

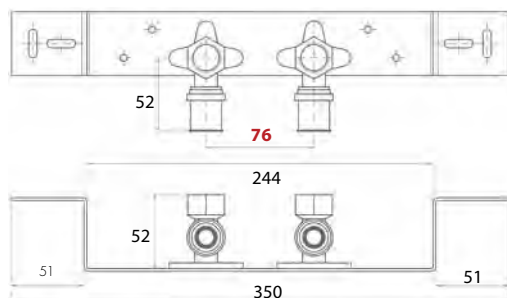


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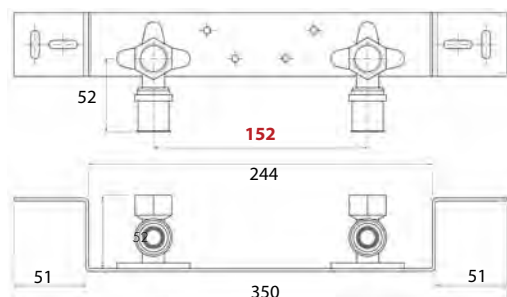
87.54.030

KOMPLETTSET BESTEHEND AUS 2
WANDWINKELN
KURZ 1/2"- 16 x 2 H. 52 mm 2 ISOLATIONEN
SCHALLSCHUTZSET
AUS SCHWARZEM
SPEZIALKUNSTSTOFF
MONTIERT AUF MONTAGESCHIENE



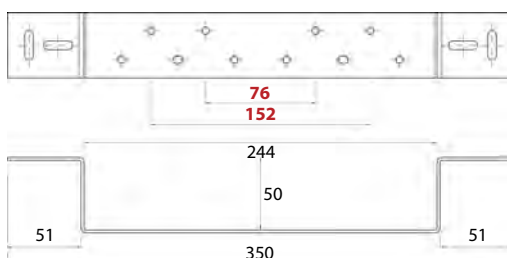
87.54.060

MONTAGEINHEIT
KOMPLETT MONTIERT MIT 2
DECKENWINKELN
ABSTAND 76 mm.



87.54.065

MONTAGEINHEIT
KOMPLETT MONTIERT MIT 2
DECKENWINKELN
ABSTAND 152 mm



87.54.075

MONTAGESCHIENE, AB-
STAND 76 - 152 mm
MIT 6 SCHRAUBENSETS