



# Certificate of Compliance

This certificate is issued for the following:

## Compression Type “Press-Fit” Pipe Fittings (see attached sheets)

**Design & Manufacturing**  
VSH Fittings B.V.  
Oude Amersfoortseweg 99  
1212 AA Hilversum  
PO Box 498, 1200 AL Hilversum  
The Netherlands

**Manufacturing**  
VSH Fittings B.V.  
VSH Distribution Centre (DC)  
Spaceshuttle 9-11  
Amersfoort, NL-3824ML  
The Netherlands

FM Approvals Class: 1920, dated November 2007

Approval Identification: 0003049184

Approval Granted: March 24, 2014

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'Richard B. Dunne', written over a horizontal line.

Richard B. Dunne  
Manager – Fire Protection  
FM Approvals  
1151 Boston-Providence Turnpike  
Norwood, MA 02062



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<i>Designation</i>	<i>Product Description</i>	<i>Nominal Size, mm</i>	<i>Rated Working Pressure, psi (kPa)</i>	<i>Remarks</i>
C 1401	Straight coupling 2x Press	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C 1402	Straight Connector Female	22xRp1/2, 22xRp3/4, 28xRp1/2, 28xRp3/4, 28xRp1, 28xNPT1, 35xRp1/2, 22xRp3/4, 35xRp1, 35xRp1 1/4, 42xRp1 1/2, 54xRp2	175 (1205)	b, c, d, e, f, g
C 1403	Slip coupling 2x Press	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C 1405	Straight Connector Male	22xR1/2, 22xR3/4, 22xR1, 28xR3/4, 28xR1, 28xNPT1, 35 x R1, 35xR1 1/4, 35xNPT1-3/4, 42xR1 1/2, 42xNPT1-1/2, 54xR2, 54xNPT2	175 (1205)	b, c, d, e, f, g
C 1407	Reducer Male x Press	28x22, 35x22, 35x28, 42x22, 42x28, 42x35, 54x22, 54x28, 54x35, 54x42	175 (1205)	b, c, d, e, f, g
C 1408	Elbow 90° 2x Press	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C1409	Angle adaptor 90° Press x Female	22xRp1/2, 28xRp1/2, 35xRp1/2	175 (1205)	b, c, d, e, f, g
C 1411	Elbow 90° Press x Round	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C 1412	Elbow 45° Press x Round	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C 1413	Elbow 45° 2x Press	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C 1414	Tee Equal 3x Press	22x22x22, 28x28x28, 35x35x35, 42x42x42, 54x54x54	175 (1205)	b, c, d, e, f, g
C 1415	Tee Reduced 3x Press	22x28x22, 28x22x28, 35x22x35, 35x28x35, 42x22x42, 42x28x42, 42x35x42, 54x22x54, 54x28x54, 54x35x54, 54x42x54	175 (1205)	b, c, d, e, f, g
C 1417	Crossover 2x Male	22x22, 28x28	175 (1205)	b, c, d, e, f, g
C 1418	Tee Reduced Press x Female thread x Press	22xRp1/2x22, 22xRp3/4x22, 28xRp1/2x28, 28xRp3/4x28, 28xRp1x28, 35xRp1/2x35, 35xRp3/4x35, 35xRp1x35, 35xNPT1x35, 42xRp1/2x42, 42xRp3/4x42, 42xRp1x42, 54xRp1/2x54, 54xRp3/4x54, 54xRp1x54	175 (1205)	b, c, d, e, f, g
C 1425	Bend 90° 2x Round	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	b, c, d, e, f, g
C 1426	Flange Coupler	35, 42, 54	175 (1205)	b, c, d, e, f, g



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C 1428	Angle adaptor 90° Press x Male thread	22xR3/4	175 (1205)	b, c, d, e, f, g
C 1429	End cap 1 x Press	22, 28, 35, 42, 54	175 (1205)	b, c, d, e, f, g
C 1430	Elbow 90° Press x Male thread	22xR3/4, 28xR1, 35xR1 1/4, 42xR1 1/2, 54xR2	175 (1205)	b, c, d, e, f, g
C 1433	Straight connector Male x Female thread	22xRp1/2, 22xRp3/4	175 (1205)	b, c, d, e, f, g
C 1434	Pass Crossing 4 x Press	28x22x28x22	175 (1205)	b, c, d, e, f, g
C 1435	Straight Union Press x Male thread	22xR3/4, 28xR1, 35xR1 1/4, 42xR1 1/2, 54xR2	175 (1205)	b, c, d, e, f, g
C 1438	Elbow 90° Press x Female	25xRp1/2, 25xRp3/4, 28xRp1/2, 28xRp3/4, 28xRp1, 35xRp1/2, 35xRp3/4, 35xRp1	175 (1205)	b, c, d, e, f, g
C1439	Reducer 2 x Press	28 x 22	175 (1205)	b, c, d, e, f, g
C 1440	GROEF KOPP. X PRESS	28x 33.7, 35x 42.4, 42x 48.3, 54x 60.3,	175 (1205)	b, c, d, e, f, g
C1443	Slip coupling Press x Fem. thread	22xRp1/2, 22xRp3/4, 28xRp1/2, 28xRp3/4	175 (1205)	b, c, d, e, f, g
C 1444	Straight Union Press x Female	22x3/4, 28x1, 35x1-1/4, 42x1-1/2, 54x2	175 (1205)	b, c, d, e, f, g
C 1446	Coupling with nut Press x Female	22x1, 28x1-1/4, 35x1-1/2, 42x1-3/4, 54x2-3/8	175 (1205)	b, c, d, e, f, g
C 1447	Crossing 4 x Press	35x28x35x28, 35x35x35x35, 42x28x42x28, 42x42x42x42, 54x28x54x28, 54x54x54x54	175 (1205)	b, c, d, e, f, g
R2701	STRAIGHT COUPLING (2XS- PR)	22x22, 28x28, 35x35, 42x42, 54x54, 76.1x76.1, 88.9x88.9, 108x108	175 (1205)	a, b, c, e, f, g
R2702	STRAIGHT CONNECT (S- PRXFEM)	22x1/2, 22x3/4, 22x1, 28x1/2, 28x3/4, 28x1, 28xNPT1, 28x5/4, 35x1, 35x5/4, 35x3/2, 42x5/4, 42x3/2, 54x3/2, 54x2	175 (1205)	a, b, c, e, f, g
R2703	SLIP COUPLING (2XS-PR)	22x22, 28x28, 35x35, 42x42, 54x54, 76.1x76.1, 88.9x88.9, 108x108	175 (1205)	a, b, c, e, f, g
R2704	STRAIGHT TAP CON.(S-PRXFEM)	22x1, 28x5/4, 35x3/2, 42x1 3/4, 54x2 3/8	175 (1205)	a, b, c, e, f, g
R2705	STRAIGHT CON. (S-PRXMALE)	22x1/2, 22x3/4, 22x1, 28x3/4, 28x1, 28x5/4, 35x1, 35x5/4, 35x3/2, 42x5/4, 42x3/2, 54x3/2, 54x2, 76.1xR2½, 88.9xR3	175 (1205)	a, b, c, e, f, g



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R2707	REDUCER (ØXS-PR)	28x22, 35x22, 35x28, 42x22, 42x28, 42x35, 54x22, 54x28, 54x35, 54x42, 76.1x42, 76.1x54, 88.9x54, 88.9x76.1, 108x54, 108x76.1, 108x88.9	175 (1205)	a, b, c, e, f, g
R2708	ELBOW 90° (2 X S-PR)	22x22, 28x28, 35x35, 42x42, 54x54, 76.1x76.1, 88.9x88.9, 108x108	175 (1205)	a, b, c, e, f, g
R2709	ANGLE CON. 90° (S-PRXFEM)	22xRp1/2, 22x3/4, 28xRp1/2, 28x3/4, 28X1, 35xRp1/2, 35xRp3/4, 35xRp1, 35X5/4	175 (1205)	a, b, c, e, f, g
R2711	ELBOW 90° (S-PRXØ)	22x22, 28x28, 35x35, 42x42, 54x54, 76.1x76.1, 88.9x88.9, 108x108	175 (1205)	a, b, c, e, f, g
R2712	ELBOW 45° (S-PRXØ)	22x22, 28x28, 35x35, 42x42, 54x54, 76.1x76.1, 88.9x88.9, 108x108	175 (1205)	a, b, c, e, f, g
R2713	ELBOW 45° (2 X S-PR)	22x22, 28x28, 35x35, 42x42, 54x54, 76.1x76.1, 88.9x88.9, 108x108	175 (1205)	a, b, c, e, f, g
R2714	TEE EQUAL (3XS-PR)	22x22x22, 28x28x28, 35x35x35, 42x42x42, 54x54x54, 76.1x76.1x76.1, 88.9x88.9x88.9, 108x108x108	175 (1205)	a, b, c, e, f, g
R2715	TEE REDUCED (3XS-PR)	28x22x28, 35x22x35, 35x28x35, 42x22x42, 42x28x42, 42x35x42, 54x22x54, 54x28x54, 54x35x54, 54x42x54, 76.1x22x76.1, 76.1x28x76.1, 76.1x35x76.1, 76.1x42x76.1, 76.1x54x76.1, 88.9x22x88.9, 88.9x28x88.9, 88.9x35x88.9, 88.9x42x88.9, 88.9x54x88.9, 88.9x76.1x88.9, 108x22x108, 108x28x108, 108x35x108, 108x42x108, 108x54x108, 108x76.1x108, 108x88.9x108	175 (1205)	a, b, c, e, f, g
R2717	CROSSOVER S-PR (ØXØ)	22X22, 28X28	175 (1205)	a, b, c, e, f, g
R2718	TEE (S-PRXFEMXS-PR)	22x1/2x22, 22x3/4x22, 28x1/2x28, 28x3/4x28, 28xRp1x28, 35x1/2x35, 35x3/4x35, 35xRp1x35, 35xNPT1x35, 42x1/2x42, 42x3/4x42, 42xRp1x42, 54x1/2x54, 54x3/4x54, 54xRp1x54, 54x2x54, 76.1x3/4x76.1, 76.1x2x76.1, 88.9x3/4x88.9, 88.9x2x88.9, 108x3/4x108, 108x2x108,	175 (1205)	a, b, c, e, f, g
R2722	BENT PIPE 15° S-PR (ØXØ)	28x28, 35x35, 42x42, 54x54	175 (1205)	a, b, c, e, f, g
R2723	BENT PIPE 30° S-PR	28x28, 35x35, 42x42, 54x54	175 (1205)	a, b, c, e, f, g
R2724	BENT PIPE 60° S-PR (ØXØ)	28x28, 35x35, 42x42, 54x54	175 (1205)	a, b, c, e, f, g



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R2725	BENT PIPE 90° S-PR (ØXØ)	22x22, 28x28, 35x35, 42x42, 54x54	175 (1205)	a, b, c, e, f, g
R2726	FLANGE CONNECTOR PN10/16 S-PR	22, 28, 35, 42, 54, 76.1, 88.9, 108	175 (1205)	a, b, c, e, f, g
R2728	ANGLE CON. 90° (S-PRXMALE)	22x3/4, 28x1, 35x5/4, 42x3/2, 54x2	175 (1205)	a, b, c, e, f, g
R2729	ENDCOUPLING	22 S-PR, 28 S-PR, 35 S-PR, 42 S-PR, 54 S-PR, 76.1 mm, 88.9 mm, 108 mm	175 (1205)	a, b, c, e, f, g
R2735	STRAIGHT UNION (S-PRXMALE)	22x1/2, 22x3/4, 22x1, 28x1, 35x1 1/4, 42x1 1/2, 54x2	175 (1205)	a, b, c, e, f, g
R2736	PUMP CONNECTOR S-PR	22x1.1/4, 22x1.1/2, 28x1.1/2, 35x2, 42x2.1/4, 54x2.3/4	175 (1205)	a, b, c, e, f, g
R2738	STRAIGHT UNION (S-PRXFEM)	22x3/4, 22x1, 28x1, 35x1 1/4, 42x1 1/2, 54x2	175 (1205)	a, b, c, e, f, g
R2748	Transition for grooved couplings Groove x Press	28, 35, 42, 54, 76.1, 88.9, 108 76.1 x 73	175 (1205)	a, b, c, e, f, g

- a. Stainless steel.
- b. For use with 'VSH Fittings' FM Approved tube.
- c. FM Approved with the EDPM EP313, EPDM EP11/7/4 and EDPM EP737 'O-Ring'.
- d. FM Approved for wet sprinkler systems only.
- e. FM Approved for use with the following assembly press tools: Novopress ECO 301, Novopress ECO 201, Novopress ACO 201, Novopress ACO202, Novopress AFP 101 and Klauke UNP 2, Novopress ACO 401, Klauke UAP 100 and Klauke UAP 100L
- f. FM Approved for use in sprinkler branch lines only.
- g. FM Approved for use in sprinkler systems when joined to the sprinkler trunk pipework by FM Approved "Transition Fitting".



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