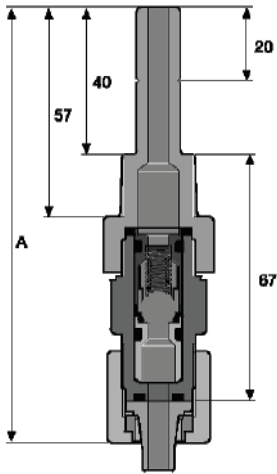


1.8 Mechanical-Hydraulic Accessories

1.8.2 Injection Valves



pk_1_105

For connection of discharge line to point of injection. Injection valve with ball check. Spring loaded PP, PVC, PVDF and stainless steel versions, with Hastelloy C spring, 0.5 bar response pressure (for R 1/4 stainless steel 1.4571 spring, response pressure approx. 1 bar). Installation in any position.

Vertical installation from below for TT version without spring. Valve spring can be retrofitted. Materials as pump liquid ends.

Important: Injection valves and discharge lances are not intended as completely sealed units!

PPE Injection valves

PP/PVDF housing, EPDM seals with non-return ball, spring-loaded with Hastelloy C spring, prepressure approx. 0.5 bar with extended screwed socket.

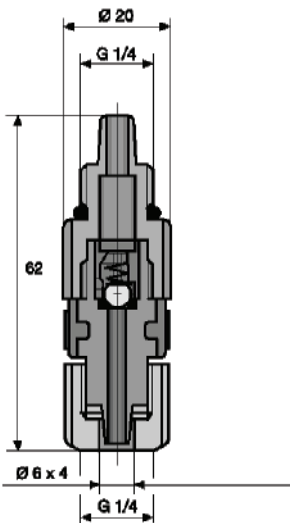
Applications when using appropriate metering lines

25 °C - max. operating pressure 16 bar

45 °C - max. operating pressure 9 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	119	pk_1_105	924681
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	119	pk_1_105	809476
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	119	pk_1_105	809478
10/4 - R 1/2 for PVC hose	10 x 4	119	pk_1_105	1002920
12/6 - R 1/2 for PVC hose	12 x 6	119	pk_1_105	809477
6/4 - G 1/4 for PE/PTFE pipe*	6 x 4	62	pk_1_042	914184
G 3/4 - DN 10 for PVC hose	24 x 16	83	pk_2_029	809461

* stainless steel 1.4571 valve spring, priming pressure approx. 1 bar.



pk_1_042

PPB Injection valves

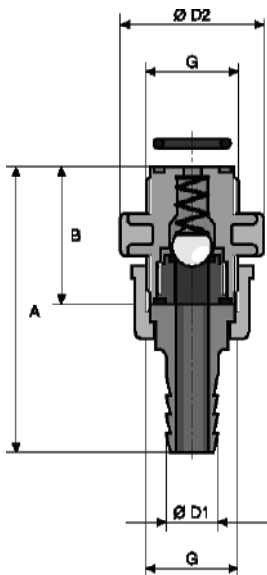
PP/PVDF housing, FPM seals with spring-loaded non-return ball, prepressure approx. 0.5 bar.

Applications when using appropriate metering lines

25 °C - max. operating pressure 16 bar

45 °C - max. operating pressure 9 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	119	pk_1_105	924682
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	119	pk_1_105	924687
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	119	pk_1_105	924688
10/4 - R 1/2 for PVC hose	10 x 4	119	pk_1_105	1002921
12/6 - R 1/2 for PVC hose	12 x 6	119	pk_1_105	924689
G 3/4 - DN 10 for PVC hose	24 x 16	83	pk_2_029	790191



pk_2_029

1.8 Mechanical-Hydraulic Accessories

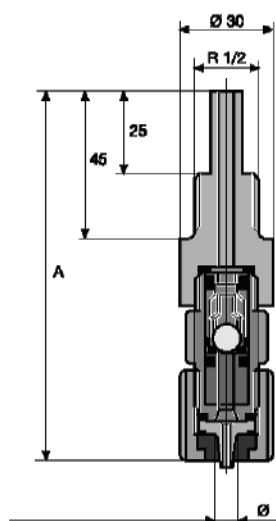
PP/PTFE Injection valves

For prevention of chemical deposition. PP body, PTFE mounting insert, EPDM seals with ball check, and Hastelloy C spring approx. 0.5 bar priming pressure. (fig. pk_1_046)

Applications when using appropriate metering lines

25 °C - max. operating pressure 16 bar

45 °C - max. operating pressure 9 bar



Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	103	pk_1_046	924588
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	103	pk_1_046	924589
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	106	pk_1_046	924590
10/4 - R 1/2 for PVC hose	10 x 4	106	pk_1_046	1002923
12/6 - R 1/2 for PVC hose	12 x 6	106	pk_1_046	924591

PVC/PTFE Injection valves

PVC body, PTFE mounting insert, FPM-B seals, spring loaded ball check with Hastelloy C spring, approx. 0.5 bar priming pressure.

Applications when using appropriate metering lines

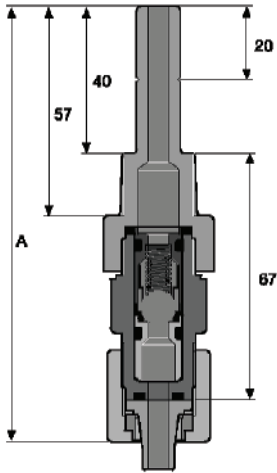
25 °C - max. operating pressure 16 bar

45 °C - max. operating pressure 7 bar

Connector	oØ x iØ mm	fig.	Order no.
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	pk_1_046	809450
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	pk_1_046	809451
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	pk_1_046	809452
10/4 - R 1/2 for PVC hose	10 x 4	pk_1_046	1002924
12/6 - R 1/2 for PVC hose	12 x 6	pk_1_046	809453

pk_1_046

1.8 Mechanical-Hydraulic Accessories



PCB Injection valves

Housing made of PVC/PVDF, seals made of FPM with non-return ball spring-loaded with Hastelloy C spring, priming pressure approx. 0.5 bar, with extended screwed socket. Type 8/4 up to 25 bar.

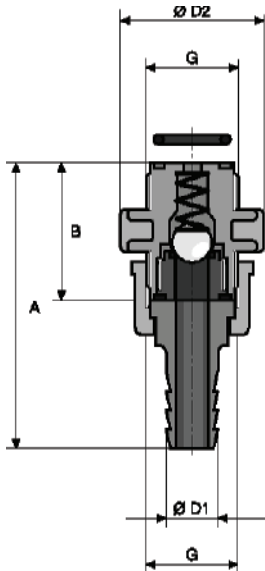
Applications when using appropriate metering lines

25 °C - max. operating pressure 16 bar
 45 °C - max. operating pressure 7 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	119	pk_1_105	924680
8/4 - R 1/2 for PTFE line	8 x 4	119	pk_1_105	1034621
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	119	pk_1_105	924592
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	119	pk_1_105	924594
10/4 - R 1/2 for PVC hose	10 x 4	119	pk_1_105	1002919
12/6 - R 1/2 for PVC hose	12 x 6	119	pk_1_105	924593
6/4 - G 1/4 for PE/PTFE pipe*	6 x 4	62	-	914559
G 3/4 - DN 10 for PVC hose	24 x 16	83	pk_2_029	809460

* Spring made of 1.4571, approx. 1 bar prepressure.

pk_1_105



PVT Injection valves

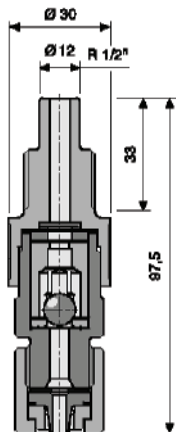
Housing PVDF, seals PTFE, with non-return ball, spring-loaded with Hast. C spring, approx. 0.5 bar priming pressure, with extended screwed socket. Type 6/3 up to 20 bar, 8/4 up to 25 bar.

Applications when using appropriate metering lines

25 °C - max. operating pressure 16 bar
 45 °C - max. operating pressure 12 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/3 - R 1/2 for PTFE pipe	6 x 3	119	pk_1_105	1024713
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	119	pk_1_105	1024708
8/4 - R 1/2 for PTFE line	8 x 4	119	pk_1_105	1034619
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	119	pk_1_105	1024710
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	119	pk_1_105	1024711
10/4 - R 1/2 for PVC hose	10 x 4	119	pk_1_105	1024709
12/6 - R 1/2 for PVC hose	12 x 6	119	pk_1_105	1024712
G 3/4 - DN 10 with pressure hose nozzle d16 - DN 10.	24 x 16	84	pk_2_029	1029476

pk_2_029



TT1 Injection valves

Vertical installation from below. With ball check, without spring. Valve spring (Order No. 469404) can be retrofitted. Body and seals PTFE.

Applications when using appropriate metering lines

25 °C - max. operating pressure 10 bar
 90 °C - max. operating pressure 5 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 - R 1/2 for PE/PTFE pipe	6 x 4	98	P_AC_0184_SW	809488
8/5 - R 1/2 for PE/PTFE pipe	8 x 5	98	P_AC_0184_SW	809479
12/9 - R 1/2 for PE/PTFE pipe	12 x 9	101	P_AC_0184_SW	809481
12/6 - R 1/2 for PVC hose	12 x 6	101	P_AC_0184_SW	809480
6/4 - R 1/4 for PE/PTFE pipe	6 x 4	65	-	914347
G 3/4 - DN 10 with fusion coupler d16	-	-	pk_2_030	809462

P_AC_0184_SW

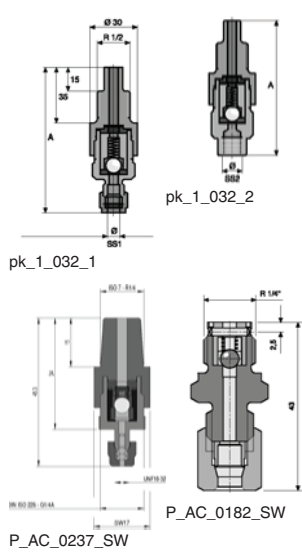
1.8 Mechanical-Hydraulic Accessories

SS1 Injection valve

Stainless steel 1.4404 body and PTFE seals with spring loaded ball check. Spring made of Hastelloy C. with approx. 0.5 bar priming pressure, for 1.4571 R 1/4 spring, approx. 1 bar priming pressure. Ferrule is required for connection with PE/PTFE pipe.

Applications when using appropriate metering lines

25 °C - max. operating pressure 30 bar
 45 °C - max. operating pressure 30 bar



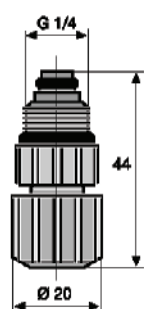
Connection	oØ x iØ mm	A mm	fig.	Order no.
6 mm - R 1/2 for pipe	6 x 5	93	pk_1_032_1	809489
8 mm - R 1/2 for pipe	8 x 7	93	pk_1_032_1	809482
12 mm - R 1/2 for pipe	12 x 10	96	pk_1_032_1	809483
1/4" NPT - R 1/2 for pipe	R 1/4" NPT	89	pk_1_032_2	924597
6 mm - R 1/4 for pipe	6	43	P_AC_0182_SW	914588
1/16" - R 1/4 for pipe	1,58 and 1,5	-	pk_1_016	803251
1/8" - R 1/4 for pipe	3,18 and 3,2	-	pk_1_016	803252
G 3/4 - DN 10, sleeve	sleeve Rp 3/8	-	pk_2_030 (sect. 2.5.2)	809463

PPB Injection valves, O-ring loaded

PP body, (FPM) FPM seals. Priming pressure approx. 0.5 bar.

Applications when using appropriate metering lines

25 °C - max. operating pressure 16 bar
 45 °C - max. operating pressure 9 bar



Connector	oØ x iØ mm	fig.	Order no.
6/4 - G 1/4	6 x 4	pk_1_043	914754
6/4 - G 1/4	6 x 4	pk_1_044	741193

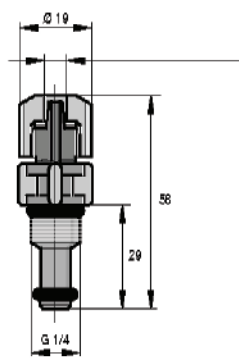
pk_1_043

PCB Injection valves O-ring loaded

PVC body, FPM (FPM) seals, priming pressure approx. 0.5 bar.

Applications when using appropriate metering lines

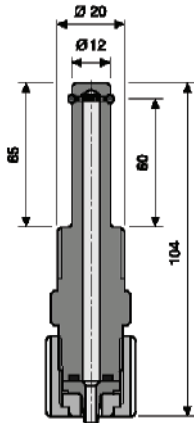
25 °C - max. operating pressure 16 bar
 45 °C - max. operating pressure 7 bar



Connector	oØ x iØ mm	fig.	Order no.
6/4 - G 1/4	6 x 4	pk_1_043	914558
6/4 - G 1/4	6 x 4	pk_1_044	915091

pk_1_044_SW1

1.8 Mechanical-Hydraulic Accessories



P_AC_0183_SW

PTFE Injection valves O-ring loaded

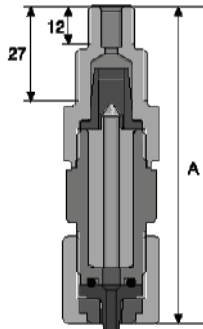
PTFE housing, FPM seals.

Applications when using appropriate metering lines

25 °C - max. operating pressure 10 bar

45 °C - max. operating pressure 6 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 – for PE/PTFE line	6 x 4	104	P_AC_0183_SW	809484
8/5 – for PE/PTFE line	8 x 5	104	P_AC_0183_SW	809485
10/4 – for PE/PTFE line	10 x 4	104	P_AC_0183_SW	1002925
12/6 – for PVC hose	12 x 6	104	P_AC_0183_SW	809487
12/9 – for PE/PTFE line	12 x 9	104	P_AC_0183_SW	809486



pk_1_070

Lip seal dosing valve PCB

Body PVC, seals FPM, inlet pressure approx. 0.05 bar. For dosing sodium hypochlorite and in conjunction with the peristaltic pump DF2a.

Applications when using appropriate metering lines

25 °C - max. operating pressure 2 bar

45 °C - max. operating pressure 2 bar

Connection	oØ x iØ mm	A mm	fig.	Order no.
6/4 - R 1/2 - 1/4 for PE/PTFE pipe	6 x 4	90	pk_1_070	1019953
10/4 - R 1/2 - 1/4 for PE/PTFE pipe	10 x 4	90	pk_1_070	1024697



pk_1_049

Dosing Connector For Warm Water Up To 200 °C

Consists of stainless steel 1.4404 injection valve, 1 m stainless steel 1.4571 discharge line and threaded connector with reinforcing sleeve for connection of PE/PTFE pipe to stainless steel pipe.

Max. operating pressure 30 bar

Connection	fig.	Order no.
Warm water 6 mm - G 1/4	pk_1_049	913166
Warm water 6 mm - G 1/2	pk_1_049	913167
Warm water 8 mm - G 1/2	pk_1_049	913177
Warm water 12 mm - G 1/2	pk_1_049	913188