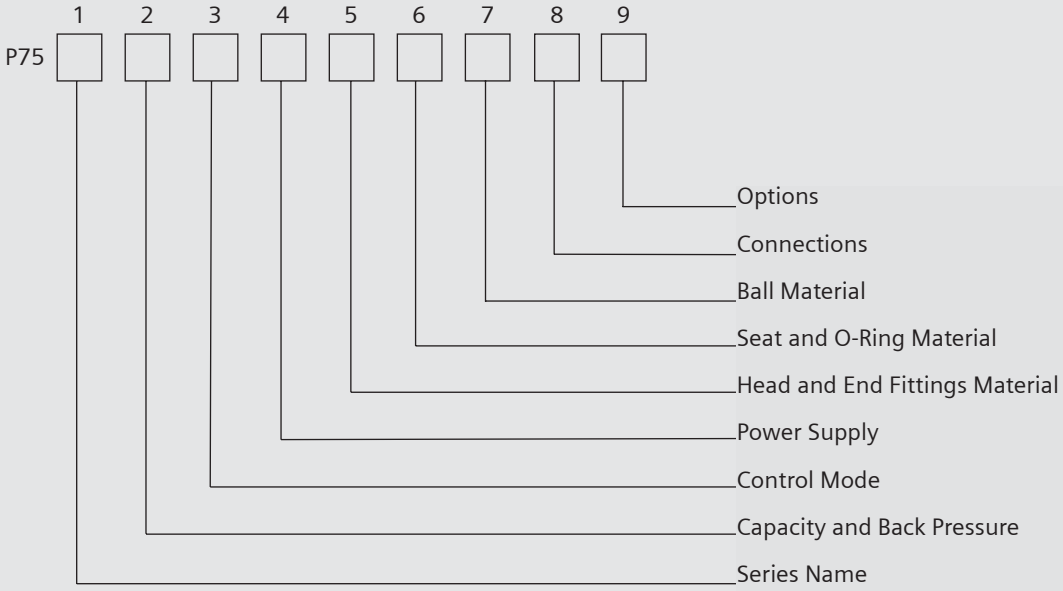
Water Technologies

Wallace & Tiernan® Liquid Feed Systems

Premia® 75
Solenoid Metering Pumps
Selection Guide

SIEMENS

Selection Code



Selection 1 - Series Name

Series	Position Code
MONO	MO
ECONO	EC
MINI	MI
MINI-DC	MD
MEGA	ME
MICRO	MP

Selection 2 - Capacity and Back Pressure

MONO Series (MO) Capacity, nominal l/h and US gph				
Model	Capacity		Max. Back Pressure	
	L/H	GPH	BAR	PSI
L1	0.9	0.25	5.6	80
L2	1.9	0.50	5.6	80
L3	3.5	1.0	5.6	80
L4	4.7	1.25	5.6	80

Mini-DC Series (MD) Capacity, nominal l/h and US gph				
Model	Capacity		Max. Back Pressure	
	L/H	GPH	BAR	PSI
H1	0.9	0.25	10	150
H2	1.9	0.50	10	150
M4	3.8	1.0	7	100
M7	7	1.85	7	100

ECONO Series (EC) Capacity, nominal l/h and US gph				
Model	Capacity		Max. Back Pressure	
	L/H	GPH	BAR	PSI
H0	0.9	0.25	17	250
H1	0.9	0.25	10	150
H2	1.9	0.5	10	150
M3	3.8	1.0	7	100
M5	4.7	1.25	7	100
L1	0.9	0.25	5.6	80
L2	1.9	0.5	5.6	80
L3	3.8	1.0	5.6	80
L5	4.7	1.25	5.6	80
M4	7.6	2.0	3.3	50

MEGA Series (ME) Capacity, nominal l/h and US gph				
Model	Capacity		Max. Back Pressure	
	L/H	GPH	BAR	PSI
00	0.5	0.13	21	300
01	0.8	0.21	17	250
02	1.9	0.5	17	250
03	3.2	0.85	17	250
06	6.4	1.7	17	250
H1	0.9	0.25	10	150
H2	1.9	0.5	10	150
H3	3.4	0.9	10	150
H7	6.6	1.75	10	150
10	9.5	2.5	10	150
12	11.9	3.15	10	150
M2	1.9	0.5	7	100
M3	2.3	0.6	7	100
M4	3.8	1.0	7	100
M7	7.0	1.85	7	100
19	18.9	5	7	100
30	30.3	8	3.3	50
38	37.9	10	2.4	35
79	94.6	25	2	30

Mini Series (MI) Capacity, nominal l/h and US gph				
Model	Capacity		Max. Back Pressure	
	L/H	GPH	BAR	PSI
00	0.5	0.13	21	300
01	0.8	0.21	17	250
02	1.9	0.5	17	250
03	3.2	0.85	17	250
04	6.4	1.7	17	250
H1	0.9	0.25	10	150
H2	1.9	0.5	10	150
H3	3.4	0.9	10	150
H4	6.6	1.75	10	150
H5	9.5	2.5	10	150
H6	11.9	3.15	10	150
M2	1.9	0.5	7	100
M3	2.3	0.6	7	100
M4	3.8	1.0	7	100
M7	7.0	1.58	7	100
M8	18.9	5	7	100
N7	30.3	8	3.3	50
P7	37.9	10	2.4	35
Q8	94.6	25	2	30

Micro Series (MP) Capacity, nominal l/h and US gph				
Model	Capacity		Max. Back Pressure	
	L/H	GPH	BAR	PSI
00	0.5	0.13	21	300
01	0.8	0.21	17	250
02	1.9	0.5	17	250
03	3.2	0.85	17	250
06	6.4	1.7	17	250
H1	0.9	0.25	10	120
H2	1.9	0.5	10	120
H3	3.4	0.9	10	120
H7	6.6	1.75	10	120
10	9.5	2.5	10	120
12	11.9	3.15	10	120
M2	1.9	0.5	7	100
M3	2.3	0.6	7	100
M4	3.8	1.0	7	100
M7	7.0	1.85	7	100
19	18.9	5	7	100
30	30.3	8	3.3	50
38	37.9	10	2.4	35
79	79.5	20	1.3	20

Selection 3 - Control Mode

Control Mode	Mono	Econo	Mini	Mega	Micro (1)
Manual, Stroke Length Control only	S				
Manual, Stroke Length and Stroke Frequency Control		D	D	D	X
External, Pulse Input	I	I			
External, Pulse Input and Stop				P	X
External, 4-20 mA Input and Stop				M	X
Power Relay					R
External Stop	E	E			

1. Manual Stroke Length and Stroke Frequency Control, External Pulse Input with Stop and External 4-20 mA Input (direct and inverse) with Stop are standard with Micro Series.

Selection 4 - Power Supply

Power Supply	Position Code
115 VAC, 50/60 Hz with line cord and US plug	A
115 VAC, 50/60 Hz with UK line cord	B
115 VAC, 50/60 Hz with line cord and Euro plug	C
115 VAC, 50/60 Hz with conduit connections	D
230 VAC, 50/60 Hz with line cord and US plug	E
230 VAC, 50/60 Hz with UK line cord	F
230 VAC, 50/60 Hz with line cord and Euro plug	G
240 VAC, 50/60 Hz with line cord and Australian plug	H
230 VAC, 50/60 Hz with conduit connections	I
12 VDC arrangements	X

Selection 5 - Head and End Fittings Material

Head and End Fittings Material	Back Pressure, maximum		Position Code
	Bar	PSI	
PVDF	21	300	K
316 SS	21	300	A
GFPPL	21	300	P
PVC (1)	10	150	V
SAN / PVC	7	100	S

1. Select position code V for standard and auto degassing PVC heads. For auto degassing arrangements select position code 9 in selection 8.

Note: Maximum capacity on auto degassing head is 1.83 gph. Available only with Viton® seats and o-rings and Ceramic balls.

Selection 6 - Seats and O-Ring Material

Seats and O-Ring Material	Back Pressure, maximum		Position Code
	Bar	PSI	
TFE (double ball valves)	21	300	T
Hypalon® (single ball valves)	10	150	H
Viton® (single ball valves	10	150	V

Selection 7 - Ball Material

Ball Material	Position Code
Ceramic	C
TFE	T
316 SS	S
Hastelloy® C	H

Selection 8 - Connections

Connections	Tubing / Pipe Size	Capacity Range		Viscosity CPS	Position Code
		LPH	GPH		
Inch Tubing	3/16" X 5/16" - Suction	< = 2.20	< = 0.58	300	J
	1/4" x 3/8" - Discharge				
	For Auto Degasifying Head	< = 6.94	< = 1.83	300	9
	1/4" x 3/8"	0.79 - 6.94	0.20 - 1.83	1000	1
	3/8" x 1/2"	0.79 - 6.94	0.20 - 1.83	1000	A
	3/8" x 1/2"	6.31 - 37.85	1.66 - 10.0	1000 (1)	3
	1/2" x 3/4"	37.85 - 78.85	10.01 - 20.83	1000 (2)	B
	3/8" x 1/2"	< 3.15	< = 0.83	1000 (3)	D
	1/2" x 3/4"	< 3.15	< = 0.83	1000 (3)	E
	1/2" x 3/4" - Suction	< = 6.94	< = 1.83	> 3000	5
	3/8" x 1/2" - Discharge				
	1/2" x 3/4" - Suction	6.94 - 78.85	1.83 - 20.83	> 3000	7
	1/2" FNPT - Discharge				
	1/2" x 3/4"	78.85	20.83	> 1000	K
Metric Tubing (4)	For Auto Degasifying Head	< = 6.94	< = 1.83	300	T
	6mm ID x 10mm OD	0.49 - 6.94	0.13 - 1.83	1000 (1)	U
	6mm ID x 12mm OD	0.49 - 6.94	0.13 - 1.83	1000 (1)	Y
	10mm ID x 16 mm OD	6.31 - 37.85	1.66 - 10.0	1000 (1)	W
	12mm ID x 19mm OD	78.85	20.83	1000 (1)	V
Pipe	1/4" FNPT	0.79 - 6.94	0.20 - 1.83	1000	2
	1/4" FNPT	6.31 - 37.85	1.66 - 10.0	1000 (1)	4
	1/4" FNPT	37.85 - 78.85	10.01 - 20.83	1000 (2)	C
	1/2" FNPT	< = 3.15	< = 0.83	1000 (3)	G
	1/4" FNPT	< = 6.94	< = 1.83	> 3000	6
	1/2" FNPT	6.94 - 78.85	1.83 - 20.83	> 3000	8

1. For viscosity in the range of 1000 to 3000 cP and capacity < = 3.33gph select position code 3 or 4 with 316 SS balls.
2. For capacities > 10 gph and viscosity > 1000 cP, select position code 7 or 8.
3. 316 SS heads and spring loaded SS balls only.
4. Tubing not supplied with pump, tubing available as an accessory. Metric tubing available subject to material selection and pressure rating.

Selection 9 - Options, Consult Factory

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