GDL SERIES DISASSEMBLED PIPELINE MULTI-STAGE CENTRIFUGAL PUMP

PRODUCT PROFILE

This is a latest-model pump characterized by distinguished energy saving, small occupation, easy installation and steady performance etc., With 1Crl8Ni9Ti quality stainless steel used outside case. Abrasion-resistant mechanical seal is adopted for shaft seal, which is leakproof and of long service life. The axial force is handled by hydraulic balance for steady operation with low noise. In respect of installation, it is superior to DL type, which can be easily installed to any part of horizontal pipeline. Being able to completely satisfying the supply and discharge for high buildings and deep mines, as well as the requirement of fire fighting, it is an optimal choice for cold and hot water industry, generic mediums, and liquid similar to water respecting physiochemical property.

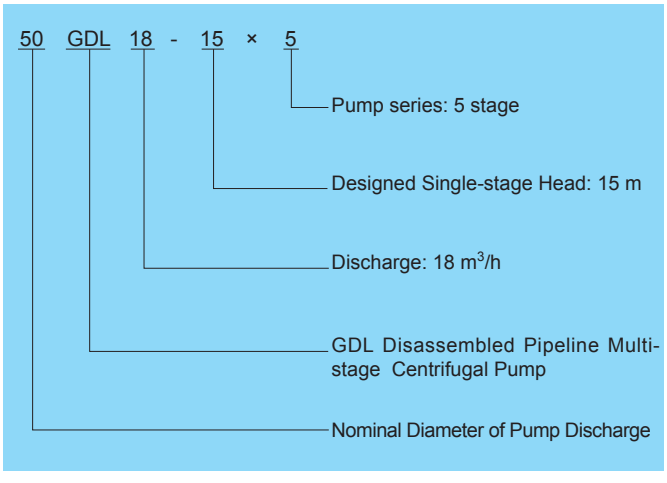
APPLICABILITY

Mainly used in drinking water supply for the high-level buildings, pressure-keeping for fire-fighting water supply, water supply for self spraying and pouring, etc, as well as water supply and drainage in industry and mining, long-distance water transport, all kinds of equipments match-up and water supply for production technology, etc.

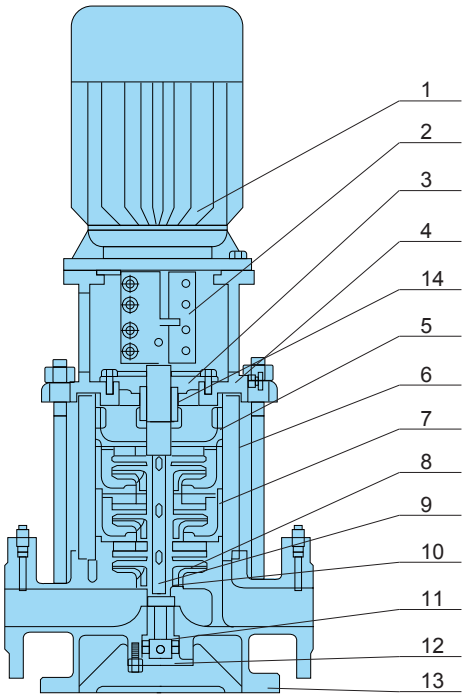
SERVICE CONDITIONS

1. Rotary Speed of Motor: 2900r/min;
2. Service Temperature: ≤120°C;
3. Systemic Pressure: ≤2.0MPa
4. Ambient Temperature: not above +40°C, humidity not more than 95%, and height above sea level not exceeding 1000 meters.

TYPE MEANING



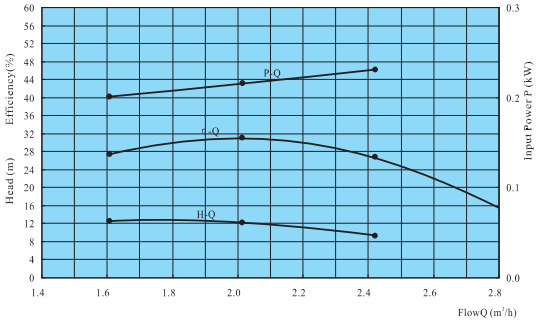
STRUCTURE DRAWING OF PUMP



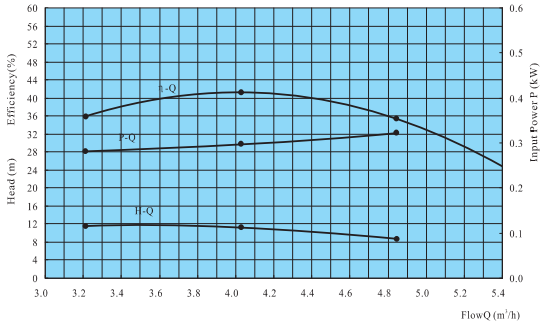
Serial number	name
1	Motor
2	Shaft coupling part
3	Meehanical seal press cover
4	Motor bracket
5	Transition part
6	Out canister part
7	Middle part
8	Impeller
9	Impeller
10	Shaft
11	Bush
12	Bush perss cover
13	Inlet part
14	Mechanical seal

PERFORMANCE CURVE (PERFORMANCE CURVE OF FIRST-STAGE IMPELLER n=2900r/min)

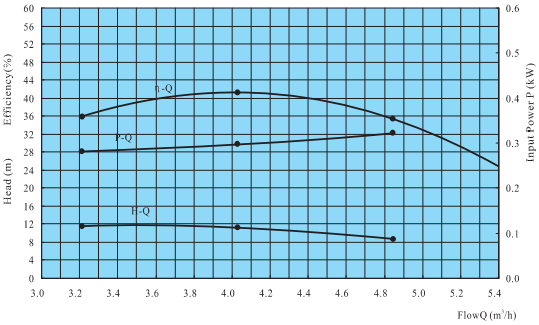
25GDL2-12×1 Performance Graph



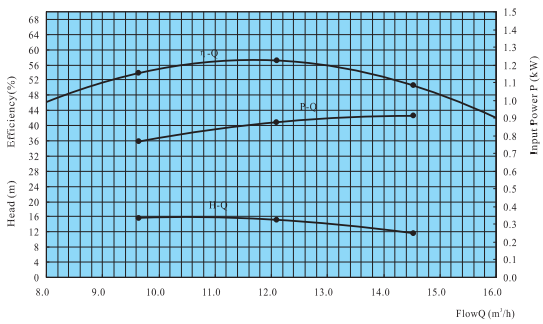
25GDL4-12×1 Performance Graph



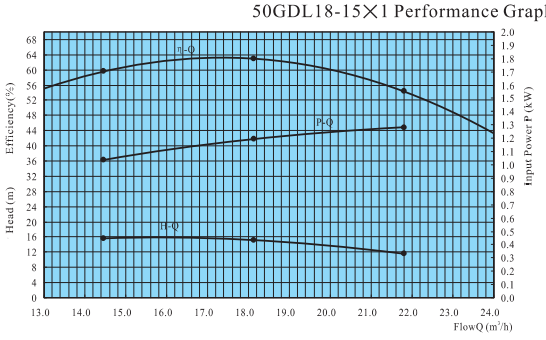
25GDL4-12×1 Performance Graph



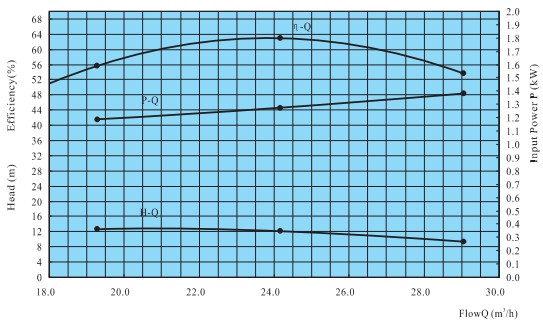
25GDL12-15×1 Performance Graph



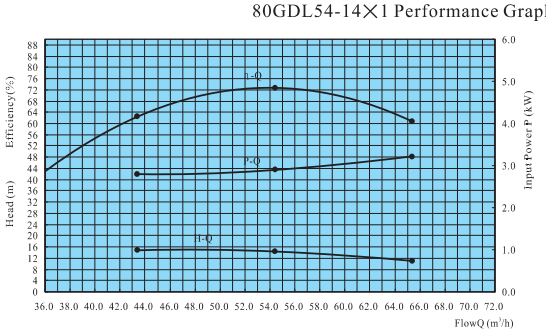
50GDL18-15×1 Performance Graph



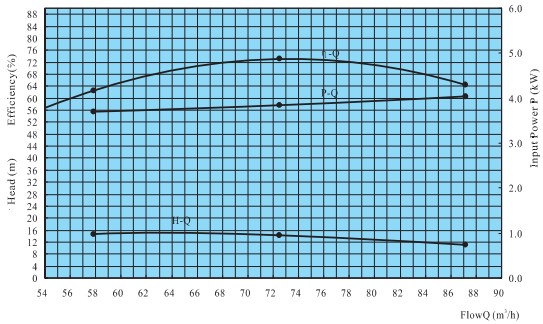
65GDL24-12×1 Performance Graph



80GDL54-14×1 Performance Graph



100GDL72-14×1 Performance Graph



PERFORMANCE PARAMETERS AND OUTLINE DIMENSIONS

Type	Series	Discharge Q (m³/h)	Discharge L/s	Head (m)	Rotary Speed n(r/min)	Shaft power kW	Power kW	Efficiency %	Necessary (NPSH)r (m)	High	Weight (Kg)
25GDL2-12	3	1.4 2 2.4	0.39 0.56 0.67	38 36 33	2900	0.63 0.65 0.67	1.1	23 30 32	2.2 2.9 4.3	606	58
	4	1.4 2 2.4	0.39 0.56 0.67	51 48 44		0.83 0.87 0.90	1.1	23 30 32	2.2 2.9 4.3	646	62
	5	1.4 2 2.4	0.39 0.56 0.67	63 60 55		1.04 1.09 1.12	1.5	23 30 32	2.2 2.9 4.3	711	68
	6	1.4 2 2.4	0.39 0.56 0.67	76 72 66		1.26 1.30 1.35	1.5	23 30 32	2.2 2.9 4.3	751	72
	7	1.4 2 2.4	0.39 0.56 0.67	88 84 77		1.46 1.52 1.57	2.2	23 30 32	2.2 2.9 4.3	816	78
	8	1.4 2 2.4	0.39 0.56 0.67	100 96 88		1.63 1.74 1.80	2.2	23 30 32	2.2 2.9 4.3	856	82
	9	1.4 2 2.4	0.39 0.56 0.67	114 108 100		1.89 1.96 2.02	2.2	23 30 32	2.2 2.9 4.3	896	86
	10	1.4 2 2.4	0.39 0.56 0.67	126 120 110		2.01 2.17 2.24	3	23 30 32	2.2 2.9 4.3	981	98
	11	1.4 2 2.4	0.39 0.56 0.67	138 132 121		2.31 2.39 2.47	3	23 30 32	2.2 2.9 4.3	1021	102
25GDL4-11	3	2.8 4 4.8	0.78 1.11 1.33	36 33 28	2900	0.86 0.85 0.86	1.1	32 42 43	2.2 2.9 4.3	606	58
	4	2.8 4 4.8	0.78 1.11 1.33	48 44 38		1.11 1.14 1.16	1.5	32 42 43	2.2 2.9 4.3	671	65
	5	2.8 4 4.8	0.78 1.11 1.33	60 55 47		1.38 1.42 1.45	2.2	32 42 43	2.2 2.9 4.3	736	72
	6	2.8 4 4.8	0.78 1.11 1.33	72 66 57		1.68 1.72 1.75	2.2	32 42 43	2.2 2.9 4.3	776	76
	7	2.8 4 4.8	0.78 1.11 1.33	84 77 66		2.00 2.05 2.06	3	32 42 43	2.2 2.9 4.3	861	86
	8	2.8 4 4.8	0.78 1.11 1.33	96 88 76		2.26 2.28 2.32	3	32 42 43	2.2 2.9 4.3	901	90
	9	2.8 4 4.8	0.78 1.11 1.33	108 99 85		2.55 2.57 2.59	3	32 42 43	2.2 2.9 4.3	941	94
	10	2.8 4 4.8	0.78 1.11 1.33	120 110 95		2.81 2.86 2.89	4	32 42 43	2.2 2.9 4.3	1011	110
	11	2.8 4 4.8	0.78 1.11 1.33	132 121 104		3.14 3.18 3.24	4	32 42 43	2.2 2.9 4.3	1051	114
40GDL6-12	3	4.2 6 7.2	1.17 1.67 2.00	41 36 30	2900	1.09 1.13 1.15	1.5	43 52 50	2.2 2.9 4.3	57	72
	4	4.2 6 7.2	1.17 1.67 2.00	54 48 40		1.45 1.50 1.53	2.2	43 52 50	2.2 2.9 4.3	722	78
	5	4.2 6 7.2	1.17 1.67 2.00	68 60 51		1.81 1.88 1.92	2.2	43 52 50	2.2 2.9 4.3	762	82
	6	4.2 6 7.2	1.17 1.67 2.00	82 72 61		2.18 2.26 2.30	3	43 52 50	2.2 2.9 4.3	847	92
	7	4.2 6 7.2	1.17 1.67 2.00	95 84 71		2.54 2.64 2.69	3	43 52 50	2.2 2.9 4.3	887	96
	8	4.2 6 7.2	1.17 1.67 2.00	109 96 81		2.91 3.01 3.07	4	43 52 50	2.2 2.9 4.3	967	112
	9	4.2 6 7.2	1.17 1.67 2.00	123 108 91		3.27 3.39 3.45	4	43 52 50	2.2 2.9 4.3	1007	116
	10	4.2 6 7.2	1.17 1.67 2.00	136 120 102		3.63 3.77 3.84	4	43 52 50	2.2 2.9 4.3	1047	120
	11	4.2 6 7.2	1.17 1.67 2.00	150 132 112		4.00 4.15 4.22	5.5	43 52 50	2.2 2.9 4.3	1132	140

PERFORMANCE PARAMETERS AND OUTLINE DIMENSIONS

Type	Series	Discharge Q (m³/h)	Discharge L/s	Head (m)	Rotary Speed n(r/min)	Shaft power kW	Power	Efficiency %	Necessary (NPSH)r (m)	High	Weight (Kg)
50GDL12-15	2	8.4 12.0 14.4	2.33 3.33 4.00	36 30 25	2900	1.68 1.71 1.72	2.2	49 57 55	2.5 3.5 4.0	766	113
	3	8.4 12.0 14.4	2.33 3.33 4.00	54 45 37		2.52 2.57 2.58	3	49 57 55	2.5 3.5 4.0	866	129
	4	8.4 12.0 14.4	2.33 3.33 4.00	72 60 50		3.36 3.43 3.44	4	49 57 55	2.5 3.5 4.0	1001	149
	5	8.4 12.0 14.4	2.33 3.33 4.00	90 75 62		4.20 4.29 4.30	5.5	49 57 55	2.5 3.5 4.0	1126	181
	6	8.4 12.0 14.4	2.33 3.33 4.00	108 90 75		5.04 5.15 5.16	5.5	49 57 55	2.5 3.5 4.0	1201	190
	7	8.4 12.0 14.4	2.33 3.33 4.00	126 105 87		5.88 6.00 6.01	7.5	49 57 55	2.5 3.5 4.0	1276	204
	8	8.4 12.0 14.4	2.33 3.33 4.00	144 120 100		6.72 6.86 6.87	7.5	49 57 55	2.5 3.5 4.0	1351	212
	9	8.4 12.0 14.4	2.33 3.33 4.00	162 135 112		7.56 7.72 7.73	11	49 57 55	2.5 3.5 4.0	1556	265
	10	8.4 12.0 14.4	2.33 3.33 4.00	180 150 125		8.40 8.59 8.60	11	49 57 55	2.5 3.5 4.0	1631	273
50GDL18-15	2	12.6 18.0 21.6	3.5 5.0 6.0	36 30 25	2900	2.28 2.31 2.33	3	54 63 62	3.5 4.0 4.5	791	122
	3	12.6 18.0 21.6	3.5 5.0 6.0	54 45 37		3.42 3.47 3.50	4	54 63 62	3.5 4.0 4.5	926	142
	4	12.6 18.0 21.6	3.5 5.0 6.0	72 60 50		4.57 4.62 4.67	5.5	54 63 62	3.5 4.0 4.5	1051	175
	5	12.6 18.0 21.6	3.5 5.0 6.0	90 75 62		5.71 5.78 5.93	7.5	54 63 62	3.5 4.0 4.5	1126	189
	6	12.6 18.0 21.6	3.5 5.0 6.0	108 90 75		6.85 6.94 7.00	7.5	54 63 62	3.5 4.0 4.5	1201	198
	7	12.6 18.0 21.6	3.5 5.0 6.0	126 105 87		8.00 8.10 8.16	11	54 63 62	3.5 4.0 4.5	1406	252
	8	12.6 18.0 21.6	3.5 5.0 6.0	144 120 100		9.04 9.05 9.33	11	54 63 62	3.5 4.0 4.5	1481	261
	9	12.6 18.0 21.6	3.5 5.0 6.0	162 135 112		10.2 10.4 10.5	15	54 63 62	3.5 4.0 4.5	1565	280
	10	12.6 18.0 21.6	3.5 5.0 6.0	180 150 125		11.4 11.5 11.6	15	54 63 62	3.5 4.0 4.5	1631	289
65GDL24-12	2	18.0 24.0 28.8	5.00 6.67 8.00	26 24 20	2900	2.21 2.34 2.35	3	54 63 62	3.5 4.0 4.5	791	122
	3	18.0 24.0 28.8	5.00 6.67 8.00	40 36 30		3.31 3.51 3.53	4	54 63 62	3.5 4.0 4.5	926	142
	4	18.0 24.0 28.8	5.00 6.67 8.00	52 48 40		4.41 4.68 4.71	5.5	54 63 62	3.5 4.0 4.5	1051	175
	5	18.0 24.0 28.8	5.00 6.67 8.00	66 60 50		5.52 5.85 5.89	7.5	54 63 62	3.5 4.0 4.5	1126	189
	6	18.0 24.0 28.8	5.00 6.67 8.00	78 72 60		6.62 7.02 7.07	7.5	54 63 62	3.5 4.0 4.5	1201	198
	7	18.0 24.0 28.8	5.00 6.67 8.00	92 84 70		7.72 8.19 8.25	11	54 63 62	3.5 4.0 4.5	1406	252
	8	18.0 24.0 28.8	5.00 6.67 8.00	106 96 80		8.83 9.36 9.43	11	54 63 62	3.5 4.0 4.5	1481	261
	9	18.0 24.0 28.8	5.00 6.67 8.00	118 108 90		9.93 10.5 10.6	15	54 63 62	3.5 4.0 4.5	1565	280
	10	18.0 24.0 28.8	5.00 6.67 8.00	132 120 100		11.0 11.7 11.8	15	54 63 62	3.5 4.0 4.5	1631	289

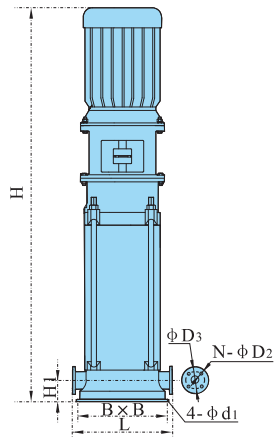
PERFORMANCE PARAMETERS AND OUTLINE DIMENSIONS

Type	Series	Discharge Q (m³/h)	Discharge L/s	Head (m)	Rotary Speed n(r/min)	Shaft power kW	Power	Efficiency %	Necessary (NPSH)r (m)	High	Weight (Kg)
80GDL36-12	2	25.2 36.0 43.2	7 10 12	27 24 21	2900	3.14 3.31 3.45	4	59 71 70	3.5 4.2 4.6	917	193
	3	25.2 36.0 43.2	7 10 12	41 36 30		4.71 4.97 5.18	5.5	59 71 70	3.5 4.2 4.6	1052	227
	4	25.2 36.0 43.2	7 10 12	54 48 40		6.29 6.62 6.90	7.5	59 71 70	3.5 4.2 4.6	1137	244
	5	25.2 36.0 43.2	7 10 12	68 60 51		7.86 8.28 8.63	11	59 71 70	3.5 4.2 4.6	1352	292
	6	25.2 36.0 43.2	7 10 12	82 72 61		9.43 9.93 10.3	11	59 71 70	3.5 4.2 4.6	1437	302
	7	25.2 36.0 43.2	7 10 12	95 84 71		11.0 11.5 12.1	15	59 71 70	3.5 4.2 4.6	1522	322
	8	25.2 36.0 43.2	7 10 12	109 96 81		12.6 13.2 13.8	15	59 71 70	3.5 4.2 4.6	1607	332
	9	25.2 36.0 43.2	7 10 12	123 108 91		14.2 14.2 15.5	18.5	59 71 70	3.5 4.2 4.6	1737	365
	10	25.2 36.0 43.2	7 10 12	136 120 102		15.7 16.5 17.2	18.5	59 71 70	3.5 4.2 4.6	1822	375
80GDL54-14	2	36 54 65	10 15 18	32 28 25	2900	5.32 5.63 6.01	7.5	62 73 71	3.5 4.0 4.5	967	218
	3	36 54 65	10 15 18	48 42 36		7.97 8.45 9.01	11	62 73 71	3.5 4.0 4.5	1182	267
	4	36 54 65	10 15 18	64 56 50		10.1 11.2 12.1	15	62 73 71	3.5 4.0 4.5	1267	287
	5	36 54 65	10 15 18	80 70 62		13.3 14.1 15.0	18.5	62 73 71	3.5 4.0 4.5	1397	320
	6	36 54 65	10 15 18	96 84 75		15.9 16.9 18.0	18.5	62 73 71	3.5 4.0 4.5	1482	330
	7	36 54 65	10 15 18	112 98 86		18.6 19.7 21.0	22	62 73 71	3.5 4.0 4.5	1592	373
	8	36 54 65	10 15 18	128 112 100		21.3 22.5 24.0	30	62 73 71	3.5 4.0 4.5	1607	400
	9	36 54 65	10 15 18	144 126 112		23.9 25.3 27.0	30	62 73 71	3.5 4.0 4.5	1757	421
	10	36 54 65	10 15 18	160 140 125		26.6 28.2 30.0	37	62 73 71	3.5 4.0 4.5	1882	432
100GDL72-14	2	36 54 65	10 15 18	32 28 24	2900	6.87 7.53 7.74	11	64 73 71	4.2 4.5 4.7	1200	276
	3	36 54 65	10 15 18	48 42 36		10.30 11.29 11.61	15	64 73 71	4.2 4.5 4.7	1335	298
	4	36 54 65	10 15 18	64 56 48		13.70 15.05 15.48	18.5	64 73 71	4.2 4.5 4.7	1460	336
	5	36 54 65	10 15 18	80 70 60		17.17 18.81 19.35	2	64 73 71	4.2 4.5 4.7	1650	381
	6	36 54 65	10 15 18	96 84 72		20.60 22.57 23.22	30	64 73 71	4.2 4.5 4.7	1740	453
	7	36 54 65	10 15 18	112 98 84		24.03 26.34 27.09	30	64 73 71	4.2 4.5 4.7	1825	466
	8	36 54 65	10 15 18	128 112 96		27.4 30.1 31.0	37	64 73 71	4.2 4.5 4.7	1900	493
	9	36 54 65	10 15 18	144 126 108		30.9 33.9 34.8	37	64 73 71	4.2 4.5 4.7	1980	582
	10	36 54 65	10 15 18	160 140 120		34.3 37.6 38.7	45	64 73 71	4.2 4.5 4.7	2070	595

PERFORMANCE PARAMETERS AND OUTLINE DIMENSIONS

Type	Series	Discharge Q (m³/h)	Discharge L/s	Head (m)	Rotary Speed n(r/min)	Shaft power kW	Power kW	Efficiency %	Necessary (NPSH)r (m)	High	Weight (Kg)
125GDL100-20	2	75 108 130	21 30 36	46 40 34	2900	14.6 15.8 16.4	18.5	65 74 72	4.2 4.5 4.7	1185	292
	3	75 108 130	21 30 36	69 60 51		21.9 23.8 24.6	30	65 74 72	4.2 4.5 4.7	1315	430
	4	75 108 130	21 30 36	92 80 68		29.1 31.7 32.8	37	65 74 72	4.2 4.5 4.7	1410	463
	5	75 108 130	21 30 36	115 100 85		36.4 39.6 41.0	45	65 74 72	4.2 4.5 4.7	1585	555
	6	75 108 130	21 30 36	138 120 102		43.7 47.6 49.2	55	65 74 72	4.2 4.5 4.7	1865	640
	7	75 108 130	21 30 36	161 140 119		49.0 55.6 57.4	75	65 74 72	4.2 4.5 4.7	1960	840
	8	75 108 130	21 30 36	181 160 136		58.3 63.5 65.6	75	65 74 72	4.2 4.5 4.7	2055	855
	9	75 108 130	21 30 36	207 180 153		65.6 71.4 73.8	90	65 74 72	4.2 4.5 4.7	2225	870
	10	75 108 130	21 30 36	230 200 170		72.9 79.3 82.1	90	65 74 72	4.2 4.5 4.7	2370	955
150GDL160-20	2	108 162 194	30 40 34	46 40 34	2900	20.5 22.5 23.3	30	69 78 77	4.4 4.5 4.7	1325	422
	3	108 162 194	30 40 34	69 60 51		30.8 33.8 35.1	37	69 78 77	4.4 4.5 4.7	1420	452
	4	108 162 194	30 40 34	92 80 68		41.0 45.1 46.7	55	69 78 77	4.4 4.5 4.7	1705	613
	5	108 162 194	30 40 34	115 100 85		51.3 56.4 58.4	75	69 78 77	4.4 4.5 4.7	1875	820
	6	108 162 194	30 40 34	138 120 102		61.6 67.6 70.1	75	69 78 77	4.4 4.5 4.7	1970	836
	7	108 162 194	30 40 34	161 140 119		71.8 78.9 81.8	90	69 78 77	4.4 4.5 4.7	2115	922
	8	108 162 194	30 40 34	181 160 136		82.1 90.2 93.5	110	69 78 77	4.4 4.5 4.7	2400	1198
	9	108 162 194	30 40 34	207 180 153		92.4 101.5 105.2	110	69 78 77	4.4 4.5 4.7	2495	1214
	10	108 162 194	30 40 34	230 200 170		102.7 112.8 116.9	132	69 78 77	4.4 4.5 4.7	2670	1340

PERFORMANCE PARAMETERS AND OUTLINE DIMENSIONS



Type	Outline Dimensions H1	L	B	4-Φd1	Inlet and Outlet Flange DN	N-ΦD2	ΦD3
25GDL	60	300	200	4-Φ18	25	4-Φ14	85
40GDL	80	360	235	4-Φ18	40	4-Φ18	110
50GDL	100	360	235	4-Φ18	50	4-Φ18	125
65GDL	110	360	235	4-Φ18	65	4-Φ18	145
80GDL	130	420	300	4-Φ18	80	4-Φ18	160
100GDL	160	520	350	4-Φ18	100	4-Φ18	180
125GDL	160	500	400	4-Φ18	125	4-Φ18	210
150GDL	180	600	400	4-Φ18	150	4-Φ22	245